# TELKWA PROPERTY 1993/1994 GEOLOGICAL ASSESSMENT REPORT

Property Name:	Telkwa Property	N.T.S.	<u>93L/11</u>
Coalfield:	<u>Telkwa</u>		
General Nature of Report:	1993/1994 Assessment Report		
Specific Licences Involved:	CL4278, CL4279, CL4280, CL4281	<u>, CL8403,</u>	CL4267 and CL5839
Location (U.T.M.):	6045000/611500 to 6056000/6285	<u>00</u>	
Owner:	Manalta Coal Limited		
Operator:	Manalta Coal Limited		
Author(s) of the Report:	Mr. Angelo Ledda, B.Sc. Geology		
Date of Performed Work:	Summer and Fall of 1993 and 199	<u>4</u>	
Report Due Date:	<u>1994</u>		
Report Submission Date:	<u>October 10, 1996</u>		

Julo Corde

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### 1.1 GENERAL

This report presents the geological work undertaken to date on the Telkwa coal licences in west-central British Columbia held by Manalta Coal Limited. Cumulative work completed during the 1993 and 1994 exploration programs is particularly emphasized, detailing the geology, coal reserves and coal quality of affected license areas. Since acquiring the Telkwa Property in May of 1992 Manalta Coal Limited has undertaken three exploration programs on the Property in as many years.

### 1.2 LOCATION AND ACCESS

The Telkwa Coal Property is located in west-central British Columbia approximately 15 kilometres south of the city of Smithers and about 2 kilometres southwest of the community of Telkwa (Enclosure 1), both of which are situated along the Yellowhead Highway (Highway #16) 11 kilometres apart. Smithers, in turn, is located 380 kilometres by rail east of Prince Rupert and the Ridley Island coal handling facilities (Figure 1.1). Smithers is serviced by commercial aircraft on a daily basis.

The Telkwa Property currently consists of 14,658 hectares held under 58 coal license blocks, measuring approximately 20 kilometres in the north-south direction by 14 kilometres east-west. The Telkwa River flows eastward through the property bisecting it into two approximate halves, both of which contain coal measures of economic significance.

Access to the north side of the property is via Smithers along an all-weather public road which approximately parallels the Bulkley and Telkwa Rivers. The south side of the property is accessed from the community of Telkwa, again by an all-weather

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road. Logging roads are common, especially on the southern half of the property, branching periodically from the all-weather access road, allowing access to more remote locations of the property via four-wheel drive and all-terrain vehicles.

The area is serviced by a 500 KV powerline which bisects the property in an approximate east-west direction, running along the south side of the Telkwa River. In addition, Pacific Northern operates an underground natural gas transmission line which also transects the property, parallelling the south side of the Telkwa River and branching northward towards Smithers along the eastern licence blocks.



# FIGURE 1.1



# TELKWA PROPERTY LOCATION MAP

The physiographic setting for the Telkwa property is typically foothills, intermediate to the Bulkley Range of the Hazelton Mountains and the low-lying gently rolling relief of the Nechako Plateau. The Bulkley Range is obvious to the north and west of the property where the landscape is bedrock controlled, while within the property limits and easterly topography is generally rounded and covered with widespread glacial drift. Bedrock on the property is usually obscured as glacial sediments form a shallow mantle over much of the area, exceptions occurring sporadically or along sections of deeply eroded river and stream valleys such as Goathorn Creek.

The principal drainage system on the property is the Telkwa River which flows east across the property until it ultimately drains into the Bulkley River at the community of Telkwa. Major tributaries to the Telkwa River include Pine Creek which drains much of the area on the northern licences, and Tenas and Goathorn Creeks which drain the south.

Elevations within the property limits range from a low of 530 meters above sea level at the Telkwa River's eastern contact with the property boundary to a high of 1375 metres at the property's southernmost extremity near Cabinet Creek. Most elevations, however, lie within 600 and 900 metres.

Vegetation at lower elevations along watercourses consist mainly of cottonwoods, spruce and shrubs. The tree layer is typically composed of large, widely spaced cottonwoods with scattered hybrid spruce and trembling aspen. The understorey is composed of a rich diversity of shrub species which include high-bush cranberry, red-osier dogwood, alder, prickly rose, snowberry and black twinberry. At higher elevations the predominant vegetational cover consists of lodgepole pine, balsam fir and spruce. Understorey species include alder, willow, black twinberry and prickly rose (TAESCO, 1985). Some of the area has been commercially logged and a number of areas have been cleared for agricultural purposes.

Pacific Inland Resources Ltd. of Smithers harvests timber within the license area for the production of commercial building products. One of the principal mills in the area is situated at the outskirts of Smithers along the access road to the north side of the property.

Soils in the vicinity vary in thickness and have developed on glacial till, outwash sediments and occasionally on weathered parent material. Parent material generally tends to be represented by either sedimentary sandstones and siltstones of the Skeena Group or volcanic sediments of the Hazelton Group.

### 1.4 TENURE

The Telkwa Property currently consists of 14,658 hectares (36,221 acres) of coal licences as well as 1295 hectares (3200 acres) of Freehold land collectively held by Manalta Coal Limited (Enclosure 2). Surface ownership rights are held in part by the Crown (approximately 70% of the property surface area), in part by Manalta Coal Ltd. (approximately 8% in the form of Freehold land) and in part by third party land owners. The property coal licences are summarized on Table 1.1.

LICENCE NUMBER	HECTARES	ACRES	EXPIRY DATE		
			64 D		
3709	259	640	31-Dec-96		
3710	259	640	31-Dec-96		
3875	259	640	31-Dec-96		
3876	259	640	31-Dec-96		
3877	259	640	31-Dec-96		
3878	259	640	31-Dec-96		
3879	259	640	31-Dec-96		
3880	259	640	31-Dec-96		
3881	259	640	31-Dec-96		
3662	209	640 640	31-Dec-96		
3003	209	040	31-Dec-96		
3004	209	640 ·	31-Dec-96		
4200	209 -	640	31-Dec-96		
4201	203	040 640	31 Dec 09		
4202	209	640	31-Dec-96		
4204	209	\$ 640	31-Dec-90 31-Dec-96		
4200	208	640	31-Dec-90		
4207	209	640	31-Dec-96		
4209	209	640	31 Dec 96		
4270	209	640	31-Dec-96		
4271	209	640	31-Dec-90		
4212	259	640	31 Dec 96		
4274	209	640 .	31-Dec-96		
4275	209	640	31-Dec-96		
4270	209	640	31-Dec-96		
4277	259	640	31-Dec-96		
4270	209	640	31 Dec 90		
4279	209	640	31-Dec-96		
4200	259	640	31-Dec-96		
4201	209	640	31-Dec-96		
4202	. 209	640 640	31 Dec 96		
4205	255	640	31 Dec 96		
5305	259	640	31-Dec-90		
5300	209	640	31-Dec-90		
5820	259	640	31-Dec-96		
6040	130	321.2	31-Dec-06		
7691	259	640	31-Dec-96 31-Dec-96		
7692	259	640	31-Dec-96		
7693	- 259	640	31-Dec-96		
7694	259	640	31-Dec-96		
7695	259	640	31-Dec-96		
7696	259	640	31-Dec-96		
327828	130	321.2	30-Nov-97		
327829	260	642.5	30-Nov-97		
327830	260	642.5	30-Nov-97		
327971	259	640	31-Jul-97		
327972	. 259	640	31-Jul-97		
328323	260	642.5	30-Nov-97		
334059	269	664.7	28-Feb-97		
334060	269	664.7	28-Feb-97		
TOTAL	12,974	32,059			

# TABLE 1.1: TELKWA PROPERTY - COAL LICENCE SUMMARY

### 1.5 HISTORICAL PERSPECTIVE

Coal was initially discovered in the Telkwa area at about 1900 although production did not commence in the Goathorn Creek area until 1918. On the north bank of the Telkwa River the Aveling (Telkole) Mine produced coal from 1921 to 1922 and again from 1940 to 1945. Telkwa Colliery (McNiel Mine) on the south side of the Telkwa River began producing in 1923 (Malott, 1990). Initial mining production was mainly for local consumption until after 1930 when underground operations were initiated at Bulkley Valley Collieries near Goathorn Creek. Production since that time has been sporadic, however, with underground operations often curtailed by structural complications and inadequate pre-development exploration.

Since 1950 the Telkwa Coalfield has been actively prospected by a variety of companies. The following is a summary of the area's exploration activities since that time. Regional geology, plotted annual exploration drill-holes and identified resource areas are found within Enclosure 3.

- **1951** - The Government of Canada conducted a regional survey, much of which included the Telkwa licence area.

- 1969 - Canex Aerial Limited completed a drilling program of approximately 20 boreholes on the Telkwa North licenses.

- **1977 to 1978 - Cyprus Anvil Mining** completed a rotary drilling program within the Telkwa South licences.

- **1979** - Shell Canada/Crowsnest Resources Ltd. completed 13 rotary drill-holes, 4 of which were located on Telkwa South licenses, and the remaining 9 situated on the north side of the Telkwa River. Chip samples were not recovered for analytical testing.

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- 1981 - Shell Canada/Crowsnest Resources Ltd. completed a mapping and exploration drilling program which consisted of 11 rotary holes and one diamond drill-hole, all of which were spaced randomly throughout the Telkwa property. Coal samples were recovered from 4 of the rotary holes as well as the diamond drill-hole for analyses.

- 1982 - Shell Canada/Crowsnest Resources Ltd. drilled 72 boreholes on the property, the majority of which were located on the south side of the Telkwa River. Of the 72 holes, 7 were rotary drill-holes and 65 were diamond drill-holes. Coal samples were collected and analyzed from all holes which intersected significant coal units.

- 1983 - Shell Canada/Crowsnest Resources Ltd. completed 69 diamond drill-holes on the Telkwa South licences, most of which were located within what has been designated as the Pit #3 resource area. Included within the program were a small number of large-diameter coreholes which, along with all other drill-holes that intersected significant coal units, were sampled and had coal analyses performed. Of the 69 boreholes completed, 11 were situated within the proposed Pit #3 test-pit limits, to provide a preview of the pit development.

Based upon drill-hole information a 219 tonne bulk sample from 7 seams was subsequently extracted from a test-pit located within the Pit #3 area. A full suite of coal quality analyses was performed, including testing on various simulated washplant products.

- 1984 - Shell Canada/Crowsnest Resources Ltd. completed 44 diamond drill-holes, the majority of which were located within the Pit #3 resource area on the south side of the Telkwa River. Less than 10% of the holes were drilled on the Telkwa North coal licences. All significant coal units were sampled and analyzed.

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- 1985 - Shell Canada/Crowsnest Resources Ltd. completed 4 diamond drill-holes, all of which were located north of the Telkwa River. All significant coals were sampled and analyzed.

- 1986 - Shell Canada/Crowsnest Resources Ltd. completed 4 diamond drill-holes, again located on the Telkwa North coal licences within an area that has been designated as Pits #7 and #8 Resource Area. Coal analyses were performed on all significant seams.

- 1988 - Shell Canada/Crowsnest Resources Ltd. completed an exploration program exclusive to the Telkwa North licences which consisted of initially completing approximately 3.5 kilometres of surface geophysics to highlight potential target locations. The area was subsequently drilled with 14 diamond drill-holes from which coal samples were collected and analyzed.

- 1989 - Shell Canada/Crowsnest Resources Ltd. completed an exploration program consisting of drilling and surface geophysics on the Telkwa North coal licences, and reflection seismic exploration within the Pit #3 area of the Telkwa South licences. In addition a large-diameter coring program was undertaken specifically targeted at obtaining a bulk sample from the Pit #7 resource area.

The conventional exploration drilling program included 31 bore-holes, 18 of which were rotary drill-holes, and the remaining 13 continuous core diamond drill-holes. Coal samples for analyses were collected from all holes which intersected significant coal units although only cored bore-holes were provided a full analyses. Recovered rotary chip samples were not considered representative. North Telkwa surface geophysics included approximately 15.4 kilometres of geophysics shared between the Pit #7 resource area, the Pit #8 proposed waste dump area and the proposed infrastructure facilities location.

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Upon completion of the conventional exploration program four previously drilled sites in the Pit #7 area were selected as locations for largediameter (6 inch) core-holes. From these a bulk sample from 7 seams was extracted and provided a full analysis.

As part of a joint investigation managed by the Coal Mining Research Company of Devon, Alberta, 4 seismic lines totalling 4.9 kilometres were laid out and a reflection seismic exploration program completed. The area chosen for the investigation was within the Pit #3 resource area where reasonable drill-hole control had previously been established.

- **1989** - The Geological Survey of Canada, as part of a province-wide study of coal quality, drilled 9 core-holes for a combined total length of 280 metres in the vicinity of the old Bulkley Valley Collieries site near Goathorn Creek. Two of the holes were drilled in the vicinity of the historic Avelling Mine. All coal intersections were sampled and subsequently analyzed.

- **1992** - Manalta Coal Ltd. of Calgary, Alberta acquired the Telkwa Coal licences on May 1st of 1992 from Shell Canada/Crowsnest Resources Ltd.. Later that year Manalta Coal conducted an exploration program which included 3.6 kilometres of surface geophysics, a regional airborne magnetic survey review and 43 drill-holes. The surface geophysics and 39 of the 43 holes drilled were located on the Telkwa North licences, while the remaining 4 drill-holes were completed on the south side of the Telkwa River in the Tenas Creek area.

Of the 43 bore-holes completed 19 were diamond core-holes, 3 were rotary core-holes and 21 were drilled utilizing conventional rotary drilling techniques. All holes completed in the Tenas Creek area were of the rotary variety although one was rotary cored through its coal measures. All significant coal seam intersections from cored drill-holes were sampled and analyzed.

Coincidental with the exploration drilling program representatives from the British Columbia Ministry of Energy, Mines and Petroleum Resources (MEMPR), and the Institute of Sedimentary and Petroleum Geology (ISPG) were on site to conduct coalbed methane desorption tests on selected Telkwa coal samples. The study conducted by the MEMPR and the ISPG was part of a regional study of methane desorption in British Columbia coalfields.

- 1993 - Manalta Coal Ltd. completed an exploration program consisting of 53 drill-holes shared between the Telkwa North and Telkwa South coal licences. In addition a geotechnical and surficial geology program was completed by Piteau Engineering on behalf of Manalta Coal Ltd. which included rock strength testing on selected cores, approximately 19 kilometres of surface geophysics and 10 till sample sites. All surficial geology studies were completed within a proposed tailings pond investigation area located near the Pit #7 and #8 Resource areas.

The Tenas Creek exploration area on the south side of the Telkwa River was the focus of 26 drill-holes, targeted at obtaining additional coal quality information and further delineation of the field's limits. Also within the Telkwa South coal licences, 5 drill-holes, all of which were cored, were completed within the Pit #3 Resource Area to obtain additional coal quality information.

Exploration completed on the Telkwa North coal licences consisted of 2 drill-holes within the limits of the Pit #8 Resource Area, 11 drill-holes dedicated to further exploration of the Pit #8 coal trend beyond the pit limits, and 9 reconnaissance drill-holes completed proximal to the Pits #7 and #8 Resource areas.

Of the 53 bore-holes completed in 1993 11 were diamond-drilled coreholes, 10 were rotary core-holes (including one 1992 drill-hole which was

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cored in 1993) and 33 were drilled utilizing conventional rotary techniques. All significant coal seam intersections from cored drill-holes were sampled and subsequently analyzed.

- 1994 - Manalta Coal Ltd. completed their third annual exploration program, consisting of geological surface mapping and the completion of 56 rotary drill-holes, 8 of which were cored at least partially. Work was undertaken on both sides of the Telkwa River, although dominated slightly by drilling activities on the southern coal licences where 32 drill-holes were completed.

Of the 32 drill-holes completed on the Telkwa South coal licences 13 were dedicated to further exploration of the Tenas Creek resource area, while 19 exploratory drill-holes were completed to evaluate the coal-bearing potential of the Tenas Creek West coal licences. Drilling on the Telkwa North licences included 14 exploratory drill-holes within the MCL (Whalen) Freehold Block, 8 within tentative wastedump areas between Pit #8 and Whalen Block, and 3 drill-holes completed proximal to the Pit #7 resource area. All cored coal seam intersections were sampled and subsequently analysed.

### 1.6 ACKNOWLEDGEMENTS

The work undertaken for the Telkwa geological study was carried out by various contractors and consultants under the management and supervision of Manalta Coal Limited's staff. This report was prepared by Mr. A. Ledda of Manalta Coal Ltd. with input from the following groups:

- Chemex Labs Ltd. for geochemical analyses.
- Drs. Barry Ryan and Alex Matheson of the British Columbia MEMPR.
- Loring Laboratories Ltd. for coal quality analyses.

- Norecol, Dames and Moore for geochemistry technical support.
- Piteau Engineering Ltd. for tailings pond geotechnical studies.

Mr. Angelo Ledda of Manalta Coal Ltd. has received a Bachelor of Science Degree in Geology (1986) from the University of Calgary as well as a Diploma in Petroleum Technology; Geology (1982) from the Southern Alberta Institute of Technology (S.A.I.T.). Since graduation with his B.Sc. he has been employed as an exploration and development geologist with Gulf Canada Resources Ltd., taught evening classes in the Petroleum Technology; Geology program at S.A.I.T., and is currently an Senior Project Geologist with Manalta Coal Ltd.

Mr. Angelo Ledda is a Professional Geologist, registered with the Association of Professional Engineers, Geologists and Geophysicists of Alberta (APEGGA). His 9 years of work experience as a geologist includes some work within the oil and gas industry although the majority of his experience has been within the coal industry on deposits situated throughout western Canada. Much of his coal experience lies within studies conducted in the Bowser Basin, including the Klappan, Groundhog and Telkwa Coalfields.

2.0 GEOLOGICAL WORK

On the basis of geological work carried out in previous years by Manalta Coal Ltd. and various other groups, the 1993/94 exploration programs conducted by Manalta were designed to further delineate high potential mining targets and to initiate reconnaissance exploration of other areas. They were also intended to provide additional data on the geology, reserves and coal quality of those potential mining targets. Licence blocks affected by the 1993 and 1994 exploration programs are illustrated on Figure 2.1.

### 2.1 SCOPE OF WORK

Work completed during the 1993 field exploration program included 53 exploration drill-holes, the investigation of a potential tailings pond site, and reclamation. The entire exploration program spanned two months from late August to late October, 1993. The tailings pond investigation consisted of 10 shallow test-holes and approximately 19 kilometres of surface geophysics. Surface geophysics work took place coincidentally with drilling activities while reclamation continued until adverse weather halted reclamation efforts.

Work undertaken during the 1994 exploration program included geological surface mapping, the completion of 56 exploration drill-holes, and reclamation. Geological mapping progressed throughout the latter half of July while drilling activities spanned from mid-August to mid-October, 1994. Reclamation efforts took place coincidentally with drilling activities and continued, virtually uninterrupted, to early November.

### 2.1.1 Surface Geophysics

Surface geophysics were utilized by Piteau Engineering Ltd. on behalf of Manalta Coal as a tool to investigate the surficial geology as it pertains to

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suitability for a tailings pond location. Specifically the objectives of the study were to describe unconsolidated overburden characteristics and thickness, bedrock characteristics, and depth to groundwater. Affected licence blocks included CL4276, CL4277, CL8210 and CL8211, where 21 kilometres of brush-line were cut and surface geophysics completed. Specific methods of geophysical investigation included electrical conductivity, magnetometer, very low frequency electromagnetics, direct current resistivity and seismic refraction. Details and results of the tailings pond investigation are presented within the report prepared by Piteau Engineering Ltd., specifics of which are included as Enclosure 5. Locations of the geophysical lines are included within the Telkwa North/South Geology maps, Enclosure 4.

### 2.1.2 Drilling

The exploration component of the 1993 field season consisted of 11 continuous core diamond drill-holes, 10 rotary core-holes (including one core from a 1992 bore-hole) and 33 conventional rotary drill-holes, for a total of 5,769 metres drilled. During 1994 56 drill-holes were completed, of which 48 were drilled utilizing conventional rotary techniques and 8 rotary cored, for a cumulative 1994 total of 5,826 metres.

All drill-holes, summarized for 1993 on Table 2.1, and for 1994 on Table 2.2, were geophysically logged upon completion and surveyed prior to site reclamation. Piezometers were installed at three 1993 drill-hole locations in order to monitor groundwater movement within specific stratigraphic horizons. No piezometers were installed during 1994. To date, including 1993/94 drilling, 416 drill-holes have been completed on the Telkwa Property since 1979 (Enclosure 6).

Wireline as well as conventional coring techniques were employed during

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the exploration programs. Diamond drill-holes were continuously cored, extracting 7.62 centimetre diameter (HQ) core from the top of competent strata through the entire length of the hole. On occasion, like diamond drilled core-holes, rotary wireline core-holes were also continuously cored throughout their entirety. Normally, however, a conventional rotary pilot hole was drilled initially at the site location and subsequently a second adjacent hole was drilled, where selected coal units were cored. Normally rock units between core intervals were conventionally drilled. At rotary core locations 10.0 centimetre diameter core was recovered. Core recoveries from both coring methods were excellent, generally ranging from 80% to 100%.

As part of the surficial geology investigation of the potential tailing pond location 10 drill sites were selected and drilled, and the surficial geology described. At these locations a diamond drill with a tri-cone bit was used to drill to bedrock or to a maximum depth of 8.2 metres.

For both the 1993 and 1994 exploration programs a Failing 1250 and an Ingersol Rand TH60 truck-mounted drilling rig were used to complete the rotary component of the program while an Acker Diamond Drilling Rig completed all diamond drill-holes. McAuley Drilling Co. of Spruce Grove, Alberta and Cora Lynn Drilling of Strathmore, Alberta completed the rotary component of the program while J.T. Thomas Diamond Drilling of Smithers, British Columbia completed all diamond drilling.

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#### TELKWA 1994 DRILL - HOLE SUMMARY LE 2.1

. Drill-hole	Site	Total	Logs	Casing	Overburden	Resource	# of	A.R.D.	Date	Driller	Comments
#	#	Depth	run	(m)	thknss	Area	coal	holes	Drilled		
		(m)			(m)		samples	(samples)			
T94R-01	25	63.78	GDRCDp	2.6	3,05	Tenas Ck.			Aug. 17	McAuley	On west fault block.
T94R-02	27	36,95	GDRC	1.5	0.10	Tenas Ck.	-		Aug. 17	Cora Lynn	Volcanics through to T.D.
T94R-03	26	64.79	GDRC	1.6	0.61	Tenas Ck.			Aug. 18	Cora Lynn	
T94R-04	21	74.66	GDRCDp	5.9	9.15	Tenas Ck.		-	Aug. 18	McAuley	
T94R-04C	_	64.87	GDRC	10.0	9,15	Tenas Ck.	17	-	Aug. 19	McAuley	Notific B4 One
1948-05	23	121,01	CORCYOP	0.1	3.90	Tenzs CK.			Aug. 19	Cora Lynn	Not the #1 Seam coals
194R-00 TQ/R-07	22	120.97	GDRCVDP	92.2	6 10	Tenas Ck	-		Aug. 20	McAuley	Nor the W1 Seath Coals.
T94R-08	29	144.50	GDRCVDr	18.4	17.68	Tenas Ck.	_	_	Aug. 22	McAuley	Not the #1 Seam coals.
T94R-09	30	145.89	GDRVCD	55.8	55.00	Tenas Ck.	-		Aug. 22	Cora Lynn	Volcanic rocks below O/B to T.D.
T94R-10C	19	89.60	GDRCVDp	6.7	6.10	Tenas Ck.	21	1	Aug. 23	McAuley	Cont. cored from 52.84 to T.D. Geoph log prbl
T94R-11	29	72.60	Na	Nil	67.90	Tenas Ck.		·	Aug. 23	Cora Lynn	Volcanics below O/8 to T.D.
T94R-12	18	94.50	GDRCVDp	21.3	19.51	Tenas Ck.		-	Aug. 24	McAuley	
T94R-13	28	41.89	GDRC	12.1	12.10	Tenas Ck.	-		Aug. 23	Cora Lynn	Volcanics below O/8 to T.D.
T94R-14	31	155.49	Nil	Nil	153.35	Tenas West	-	-	Sept 29	MCAULOY	Don dniled to 110 m; O/B still and abridhd.
T94R-15	53	33.50	Na	24.4	>33,30	Lenas West	-	-	AUG. 26	Cora Lynn	Flowing note. Plugged Sept. 20. No reanilitor n
194R-16 704B-17	34	110.00	Nii CDRC	NII 13 9	97.55	Tenas West		·	Aug. 26	Cora Lypp	Volcanics below 0/8 to 1.0.
194K-17 TOAD 19	49	412.90	CDRC+	12.0 Nil	51 52	Tenas West			Aug. 20	McAuley	Log to 30m only. Sed or to 102.7
T94R-19	45	61.80	GDRC	12.2	11.60	Tenas West			Aug. 27	Cora Lynn	Volcanics below O/8 to T.D.
T94R-20	41	115.62	GDRCVD	30.0	26.00	Tenas West	_	_	Aug. 28	Cora Lynn	Sed rx to 50.9; rewrkd volc to 90.4; volc rx.
T94R-21	40	60.00	Nil	Nil	57.10	Tenas West	_	_	Aug. 29	Cora Lynn	Volcanics below O/B to T.D.
T94R-22	39	60.98	Nil	15,2	35.06	Tenas West			Aug. 29	McAuley	Rewkd voics to 38,4 (3.3m); voic rx to T.D.
T94R-23	51	157.13	GDCVRDp	12.0	7.10	Whaten	-		Aug. 31	Cora Lynn	
T94R-24	3	121.45	GDCVRDp	29,2	20.73	Whalen			Aug. 31	McAuley	
T94R-24C		92,83	GDRC	30.2	20.73		11		Sept.5	McAuley	
T94R-25	54	102.76	GDCVRDp	9 19.7	17.30	North Whalen			Sept. 1	Cora Lynn	Volcanics @ 59.2m to T.D.
T94R-26	56	82.68	GDRC	12.2	6.40	North Whalen		-	Sept. 1	McAuley	Volcanic rx below O/B to T.D.
194R-27	55	150.54	GURCVUP	17.1	17.68	Nonn whalen	-	-	Sept 3	Com Lima	
1948-28	10.	133.07	CDCVPD	12.0	9,30	Manalon	_	_	Sept 4	Cora Lynn	Seame #2 to 52
T04R-29	2	110.06	GDCVRDp	4.5	2.70	TWILLEL	23	_	Sent 7	McAuley	Geophysical log from 85 0 metres.
94R-30	6	61.00	GDRC	28.6	27.13	Whaten		<b></b>	Sept 4	McAuley	Volcanic rx below O/B to T.D.
94R-31	7	201.40	GDCVRD	7.0	6.40	Whaten	<b>→</b>		Sept. 5	Cora Lynn	
194R-32	8	136.40	GDCVRD	12.8	9.70	North Whalen	-	_	Sept. 7	Cora Lynn	Volcanics @ 118.4 metres.
T94R-33C	12	76,80	GDCVRDp	16.9	16.50	Pi1 #7	21	32	Sept. 9	McAuley	ARD hole.
T94R-34	9	155.74	GDCVRDp	12.8	5,70	North Whalen	-		Sept. 8	Cora Lynn	
T94R-34C	-	121.45	GDCR	6,0	5.70		24		Sept. 17	McAuley	Geophysical tool problems; adequate log.
T94R-35	11	115.18	GDCVRDp	35.5	32.90	Pit #7 Wstdmp			Sept. 13	McAuley	Volcanics @ 99,8 metres.
T94R-35C	-	88.85	GDCR	31.4	32.90	144-010-0	20		Sept 16	MCAULEY	#1 Saom
194K-30	1	194,00	- GDGVRDp ма	21.4 Nii	74 65	Whaten		_	Sept 14	Mohulov	Weicznie or beiew O/B to T D
T94R-37	4	177.40	GDCVRDr	25.9	25.90	Whaten	_	_	Sept 16	Coralivan	Veloand in belon end to 1.5.
T94R-39	F	134.15	GDCVRDp	4.5	3.35	North Whalen			Sept 17	McAuley	_
T94R-40	52	99.00	GDCVRD	9.6	8.30	Whaten			Sept. 17	Cora Lynn	Volcanics from 38.9m to T.D.
T94R-41	Ď	146.19	GDCVRD	14.8	13.10	Whaten	-		Sept. 18	Cora Lynn	Seam #2 - 11 coals / or #1 coals?
T94R-42	А	132.53	GDCVRDp	14.6	12.20	Whalen	↦	⊷	Sept. 20	Cora Lynn	
T94R-43	Watrwi	97.50	GDCVRDp	5 11.6	15.24	Pit #7 East			Sept. 20	McAuley	
T94R-44	8	145.73	GDCVRDp	6.1	5.20	Whalen			Sept 21	Cora Lynn	
T94R-45	C	156,83	GDCVRDp	17.0	15.50	Whaten	-		Sept 22	Cora Lynn	
T94R-46C	E	202.54	GDCVR	55.6	54,70	vvnaten	12	73	Sept 26	MCAULEY	Cored through #1 Seam. ARD hole.
T94R-47	38	43.30		NII 20.4	25.30	Lenas West	-	-	Sept 25	Cora Lynn	Volcanic IX below O/B to T.D.
194R-40 TOAR.40	43	79.22	GDBC	123	12.4/10.0	Tenas West	_	_	Sept 26	Coralynn	Volcanic cobelow O/B to T.D.
T94R-50	48	66.27	GDRC	4.5	1.00	Tenas West		_	Sept 27	Cora Lynn	Interbedded volc/congl to TD.
T94R-51	42	72.22	GDRC	12.6	10,60	Tenas West	_		Sept. 28	Cora Lynn	Volcanic rx below Q/B to T.D.
T94R-52	46	78.66	GDRC	14.7	12.20	Tenas West		-	Sept, 29	Cora Lynn	Volcanic rx below O/B to T.D.
T94R-53	32	144.80	Nil	Nil	135.60	Tenas West			Oct. 1	McAuley	Volcanic rx below O/B to T.D.
T94R-54	36	95,00	Nil	Nil	73.00	Tenas West		-	Sept 30	Cora Lynn	
T94R-55	35	79.20	Nil	Nil	66,40	Tenas West			Oct. 2	Cora Lynn	
T94R-56	33	156.00	Nil	Nil	>155.00	Tenas West	-		Oct. 4	McAuley	Lost circ. @ 155.0m. Abndnd before bdrk conta
T93R-52	-	54,00	Nil	Nil	41.30	Tenas west	-		Oct. 2	Cora Lynn	Ke-anii of 93 anii-noie.
TOTALS		6717 20					149	105			
IUTALS:		0727.20					143	18	outcrop samples		
TOTAL: Diamond	-	0.00						123	- stately antiching	where:	G = Gamma Log
Rotary	-	5880.20		Telkwa North:	3635.68	metres					D = Density Log
Rot core	-	847.00		Telkwa South:	3091.52	metres					C = Caliper Log
		6727.20		-	6727.20						V = Verticality Log

V = Verticality Log Dp = Dipmeter Log

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### TABLE 2.2 TELKWA 1993 DRILL-HOLE SUMMARY

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Drill-hole #	Site #	Total Depth (m)	Logs rua	Casing (m)	Till thkass (m)	Scams intersected	# of samples	A.R.D. holes (samples)	Date Drilled	Driller	Comments
T93R-01	214	42.7	GDVC	5.6	1,66	Pit #3	-		Sept. 1	McAuley	
T93R-01C	-	34.5	GDC	5.6	1,83		6	-	Sept. 2	McAuley	Seam #3 & #2.
T93R-02	108	80.5	GDVCDp	2.1	1.66	Tenas Ck.			Sept. 2	Cora Lynn	Seam #1 main.
T93R-03	110	100.8	GDVC	6.1	4.4Z	Tenas Ck	-		Sept. 5	McAuley	MOTTO NO. 111. ST. 1.
193K-04	103	89.0	GDVC	3,1	2,15	Tenas Ck	-	_	Sept. 3	Cora Lynn	NG.Hazenon voie bsmt noie.
193K-05	113	92.4 55 9	GDVC	3.3	3,00	Tenas Ck		_	Sept 4	Com Lynn	
1332-060	114	31.6	GDC	5.5	1.22	I CHAS CA	27	_	Sept 11	Meduley	
7938-07	114	128.9	GDVC	15.2	9.76	Tenas Cit		-	Sent 5	Cora Lama	
T93R-07C		114.3	GDVC	24.4	9.76	TCHAS CK	25		Scot. 12	McAuley	
T93R-08	_	43.0	GDC	2.3	1.83	Tenas Ck	_	_	Sept. 5	McAuley	Fault repeat of c. 1U.1.1La.1Lb
T93R-08C	_	17.4	GDC	1.8	1.80	→	19		Sept. 6	McAuley	
T93R-09	115	171.3	GDCV	2.7	1.22	Tenas Ck			Scot, 6	Cora Lynn	No main seams?
T93R-10	105	61,0	GDCVDp	6.1	3,35	Tenas Ck	_	_	Sept. 7	McAuley	Fault repeat coals?
T93R-11	107	73.3	GDCV	18,3	16.16	Tenas Ck	↔		Sept. 7	McAulcy	
T93R-11C		55.2	GDVCDp	18,3	16,16		20		Sept. 8	McAuley	
T93R-12	116	128.9	GDVC	16.3	15.55	Tenas Ck			Sept. 9	Cora Lynn	
T93R-13	109	140,8	GDVC	24.4	23.80	Tenas Ck	_		Sept. 10	Cora Lynn	N/C. Hazelton Volc bsmt @ 64m
T93R-14	106	109,7	GDVCDp	6.1	3.66	Tenas Ck	-		Sept. 10	McAulcy	N/C. Volc bsmt th/out hole.
T93R-15	122	42.7	Nil	Nil	>46.3	Tenas Ck	-	—	Sept. 10	Cora Lynn	Abnd. 42.7m outwash deposits
T93R-16	118	36.6	GN	Nil	>36.6	Tenas Ck			Sept. 11	Cora Lynn	Logged thru stem. Outwash a/a
T93R-17	119	128.9	GDVC	5.2	3.96	Tenas Ck			Sept.12	Cora Lynn	Methane producing hole,
T93R-18	120	183,8	GDVC	25.6	24.39	Tenas Ck			Sept. 14	Cora Lynn	Methane producer, No #1 coals
•T92R-40C	-	35.4 -	GDC	18,3	8,50	Tenas Ck	10	-	Sept. 14	McAuley	Cored 1992 hole.
T93R-19	111	122.0	GDVC -	11.0	8.84	Tenas Ck		-	Sept. 15	Cora Lynn	N/C. Volc rx th/out.
T93R-20	131	, 46,3	Nil	24.4	>46,3	Tenas Ck	-	-,	Sept. 15	McAulcy	Abid. 42.7m outwash deposits
T93R-21	20	140.8	GDVC	3.4	2.74	Pit 8 South			Sept. 16	Cora Lynn	Seams #2 to 11.
193K-22	. 26	207.3	GDVC	18.0	16.16	Pit & South	20	67	Sept 10	IT Thomas	Gentech hole #2 - 13 cmr. APD
1930-22	10	165 7	NI		23.84	Dit 9 South			Sept 17	Com Lana	No Cost
1731-23	17	149.4	GDVC	366	33.04	Pit 8 South	15	47	Sept 27	IT Thomas	Geotech hole #1 seams ARD
T03D-24	30	45.7	GDC	15	1.50	Pir #8	-	8	Sent 18	IT Thomas	Grotech intrusive hole. ARD
T938-25	21	185.9	GDVC	12.8	7.01	Pit 8 South		<u> </u>	Sept. 20	McAuley	One seam: 113-117m?
T938-26	23	86.0	GDVC	31.4	31.40	Pit 8 South			Scot. 19	Cora Lynn	#2 scam.
T93D-27	27	115.8	GD	73.2		Pit 8 South	15	10	Sept. 23	J.T. Thomas	Twinned T79R-10 hole.
T93R-28	22	146.9	GDVC	18.3	13.11	Pit 8 South	_		Sept. 21	Cora Lynn	Double piczo hole
T93R-28P	22	71.9	GDC	11,3			_		Sept. 22	Cora Lynn	Flt brwn R-28 & R-28P, Piezo 2
T93R-29	18	134.1	GDVC	42.7		Pit 8 South			Sept. 21	McAulcy	Double piezo location.
T93R-30	17	134.1	GDVC	24.4	19.28	Pit #8		·	Sept. 24	McAuley	Single piezo hole, #1 scams.
Ť93 <b>D-3</b> 1	26	182.9	GDVC	33,5		Pit 8 South	1		Sept. 24	J.T. Thomas	Basal #1 scams; Pit #7?
T93R-32	-	110.6	GDVC	3.5	1,83	Pit #8	-		Sept. 25	Cora Lynn	Infill structural hole. Piczo.
T93R-33	16	152,4	GDVC	6.1	2.44	Pit #8		-	Sept, 26	McAuley	N/C. On other side of fault?
T93R-34	37	165.2	GDVC	39.9	36.89	Exploration			Sept. 27	Cora Lynn	Expin hole. This dirty seams.
T93R-35	24	110.0	GCVDDp	42.7	38.11	Pit 8 South			Sept, 28	McAuley	Seams #8 to 2
T93R-36	32	138.0	GC	5.4	4,57	Plant Site			Sept. 26	Cora Lynn	Minor coal, No H2O; no density.
T93R-37	36	137.8	GDC	6,1	4,27	Exploration	_		Sept. 29	Cora Lynn	Thin coals.
T93D-38	29	137.2	GD ,	18.3		Pit #7	19	-	Sept. 29	J.T. Thomas	Sm #1 coals, Logged thru stem.
T93R-39	33	110.3	GDVC	8.8	8.84	Plant Site		-	Sept. 30	Cora Lynn	Thin coals.
T93R-40C	211	63.6	GCVD	0.1		Pit #3	36		Sept. 30	McAuley	
193K-41C	201	141.7	CDVC	2,2		PIL #3	37		Oct 1	Makulay	
193K-42C	203	12.3	GDC	5.3		ric #3 Die #3	13	_	04.4	MeAulow	
7000 44	200	193.0	CDVC	5.2		Dia Jig	15	40	04.5	T Thomas	Ta Gill stoucturel hota
193D-44 T02D-45	127	1/2.0	GDVC	2.2	20.50	Tenes Cir	10	40	0.1	IT Thomas	Not the #1 com cools?
1930-43	24	145.0	GDVC	12.0	16 16	Diant Cite	12	. —	04.2	Comlum	Vola re @ 25m
. TOID 47	104	170 0	GDDa	12.0	10,10	Tence Ck	3	_	0015	IT Thomas	Lottend thru stern. Do log to 80
T93R-48	35	137.0	GDVC	6.0	5.79	Plant Site	<u>.</u> .	_	0ct 2	Cora Lynn	#1 seam coals.
T93R-49	101	116.8	GN	12.2	11.28	Tenas Ck			Oct. 4	Cora Lynn	Volc bsmt rx below coal,
T93D-50	130	87.8	Nil	_	>87.8	Tenas Ck	0		Oct. 3	J.T. Thomas	Outwash sediments th/out \$7.7
T93R-51	_	71.3	GDC	5.5	3.66	Tenas Ck	-		Oct. 4	Cora Lynn	W of T92R-42, Voles @ 58.2m.
T93R-52	133	42.7	Nil	_	42.70	Tenas West	-		Oct, 5	Cora Lynn	Abad @ 42.7m OB. Redrill in 94 to 54 m.
T93D-53	I	91.4	GDCV	7.5		Tenas Ck	16	39	Oct. 15	J.T. Thomas	Tenas Ck. ARD hole.
	I										
TOTALS:	•	6526.8					364	211			
TOTAL: Diamond Rotary	-	1461,5 4453,3	3695.7	(Not incl.)	pilots for rotary	( cores)				when	e: G = Gamma Log

Rotary -Rot core -.

4453.3 612.0 6526.8

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where: G = Gamma Log D = Density Log C = Caliper Log V = Verticality Log

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### 2.1.2.1 Drill-hole Numbering

Drill-holes completed on the Telkwa Property between 1979 and 1989 were not numbered utilizing a common numbering scheme. As a result, in 1992, all drill-holes completed on the property were renamed to reflect a common system. The original numerical component of the name was retained to avoid confusion but prefixes denoting the year drilled and the type of drill-hole were made consistent. An example of the adopted system would be T85D-502 where:

- .T denotes it as a Telkwa Property drill-hole; TG as a
  - Telkwa Surficial Geology test-hole.
- 85 classifies it as being drilled in 1985.
- D denotes it as a diamond drill-hole; R as a rotary.502 is its original numerical component.

For rotary core-holes a C would follow the numerical component. A complete drill-hole listing is provided within Enclosure 6.

### 2.1.2.2 Geophysical Logging

When physically possible all exploration drill-holes completed within sedimentary rock were open-hole geophysically logged shortly after drilling was suspended. Where poor downhole conditions were encountered a slimline gamma-density tool was lowered through the drillstem so as to obtain at least one complete geophysical log of the hole. Detail logging (1:20 Scale) was undertaken over significant coal seam intervals only. Surficial geology test-holes were not geophysically logged due to their shallow completion depths nor were some 1994 bore-holes completed within volcanic bedrock, particularly those containing excessive thicknesses of poorly consolidated Tertiary overburden sediments.

Copies of geophysical logs for each borehole are presented within Enclosure 27. In most cases downhole conditions were satisfactory and the following open-hole geophysical log responses were obtained:

Gamma Ray Generai	1:100 Scale
Long Spaced Density General	1:100 Scale
Dipmeter General	1:100 (on selected holes)
Caliper	
Deviation	
Gamma Ray Detail	1:20 Scale
Long Spaced Density Detail	1:20 Scale
Bed Resolution Density Detail	1:20 Scale

### 2.1.2.3 Drill-hole Logging, Sampling and Analysis

All core-holes completed during the 1993 and 1994 exploration programs were logged in detail (Enclosure 7) by geologists on site. In 1993 a total of 364 coal ply samples were collected while in 1994 there were 149 samples recovered. During both seasons rock samples from representative core-holes were also collected for subsequent analyses to determine potential acid rock drainage (ARD) characteristics. Cuttings descriptions from all rotary drillholes, as described in the field, are found within Enclosure 8. Specific details of analyses conducted and test results are discussed in Section 4.0.

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### 2.1.3 Geological Surface Mapping

Geological surface mapping completed during the 1994 exploration program was concentrated mainly on the Telkwa South coal licences within the incised drainage systems of Cabinet and Webster Creeks, and on areas of high topographic relief where outcrop exposures were unobscured. Coal licences where mapping was undertaken include CL4260, CL4261, CL4262, CL4264, CL4282 and CL8426.

### 2.1.4 Reclamation

Reclamation activities were undertaken in areas disturbed by recent exploration activities, as well as those areas disturbed by previous years' activities which were considered to require additional work. All disturbed areas were recontoured, reseeded and fertilized using Forestry approved mixtures. Access trails on sloping ground were water barred for erosion control, and additional topsoil was added to areas that inhibited new plant growth. All work was carried out in accordance with the regulations and guidelines of B.C. Forestry. Areas which were not reclaimed in the disturbance year due to the onset of adverse weather were completed the following spring.

### 3.1 REGIONAL GEOLOGIC SETTING

During Jurassic and Cretaceous time much of the western portion of British Columbia was formed as the result of several terranes that moved slowly toward and eventually collided with the North American craton. The Telkwa coalfield is the product of sedimentation that occurred as one such terrane, the Stikine Terrane, pushed eastward to eventually become sutured to the North American landmass (Richards, 1988).

Successor basins, which formed in response to the approaching terrane, were the focus of rapid sedimentation, subsidence and increased tectonic activity. One such successor basin, the Bowser Basin, had developed during Middle Jurassic time near the present-day location of Smithers. It was a centre of deposition, bounded on the north by the Stikine Arch, on the south by the Skeena Arch and on the east by the early uplifting of the Columbian Orogeny. The Telkwa coalfield developed along the northern flank of the Skeena Arch near the southern limit of sedimentary rocks in the Bowser Basin (Figure 3.1) (Palsgrove and Bustin, 1991).

Deposition of the coal-bearing sediments in the Telkwa area was initiated into the Bowser Basin during the Lower Cretaceous, following uplift and erosion of the Skeena Arch. Although this sedimentation initially came from the south and west, an eastern provenance soon dominated, a response to the increased uplift of the Columbian Orogeny. The result in the Telkwa area is represented by more than 500 metres of coal-bearing strata referred to as the Lower Cretaceous Skeena Group. In the Telkwa coalfield Skeena Group sediments unconformably overlie Jurassic Hazelton volcanics.

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Figure 3.1. Tectonic Elements of British Columbia (R.J. Palsgrove, 1990).

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### 3.2 STRATIGRAPHY

Sedimentation of Skeena Group sediments occurred throughout the Lower Cretaceous, during which time deposition was influenced by two regressive / transgressive episodes. As a result the stratigraphic sequence (Enclosure 9) is divisible into four lithostratigraphic units (Palsgrove and Bustin, 1989) described below. Porphyritic Tertiary and Cretaceous intrusive dykes and sills commonly disrupt local stratigraphy as does a large Tertiary granodiorite plug identified on the northern coal licences.

### 3.2.1 Unit I

The basal unit, Unit I, was deposited in a fluvial environment on an eroded Hazelton volcanic basement of Jurassic age. In the Telkwa area Unit I may be in excess of 100 metres in thickness and consists mainly of conglomerate, sandstone, mudstone and coal. Sands and gravels were typically deposited in braided channels and bars while mudstones accumulated in floodplains. Coals within this unit, collectively referred to as Coal Zone 1, formed in poorly drained backswamps and are characterized by lateral variation throughout the study area. Deposition of Unit I ended with a marine transgression and deposition of Unit II.

### 3.2.2 Unit II

Unit II was deposited within a deltaic / shallow marine environment and consists of up to 140 metres of sandstone, silty mudstone and occasional thin coaly mudstone. Sands were deposited in distributary channels and mouth-bars while mudstones and silty mudstones accumulated in interdistributary bays. Thin discontinuous peat beds, none of which are of economic significance, accumulated in local salt marshes.

### 3.2.3 Unit III

Unit III is indicative of the second regressive episode for the area and represents the deposition of the main coal-bearing stratigraphic sequence. The unit averages 85 metres in thickness and comprises of sandstone, siltstone, carbonaceous mudstone and thick, laterally extensive coal seams. Restricted nearshore marine, tidal flat and coastal swamp environments persisted throughout much of the deposition of Unit III. Sandstone units were deposited within tidal channels while interbedded sandstones and siltstones were deposited nearshore within intertidal environments. Mudstones are representative of tidal flat deposits. Indications are that there was significant marine influence during deposition of the entire unit.

Coal Zones 2 through 11 are represented in Unit III, collectively consisting of up to 17 coal seams of economic significance. The coal zones were likely formed in freshwater peat swamps, located landward of the tidal flat, somewhat isolated from influxes of brackish water. The presence of sulphur in some of the coal seams suggests, however, that the peat was infiltrated periodically by marine water. Thus, the major coal seams are interpreted to have formed from peat accumulated in a freshwater marsh that was proximal to a brackish environment. The Snuggedy Swamp of South Carolina is considered a modern analog for the paleoenvironment in which Unit III was deposited.

### 3.2.4 Unit IV

Unit IV overlies the coal measures and represents a marine transgression that terminated coal deposition over the study area. The unit exceeds 150 metres in thickness and consists of sandstone overlain by silty mudstone. The basal sandstone is a transgressive lag deposit while the remainder represents deposition within a near-shore, shallow marine environment.

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Since deposition of the Skeena Group of sediments during the Lower Cretaceous the Telkwa area has undergone at least two episodes of structural significance. The Upper Cretaceous of the Bowser Basin reflects a time of deformation, when high angle faulting and plutonism were occurring eastward within the Omineca Crystalline Belt, and increasing uplift was occurring to the west. This was a result of the suturing of the Stikine Terrane to the North American craton and also the effects of additional terranes approaching from the west. Although folding in the Telkwa area was not as significant as in other portions of the basin, high angle faulting roughly trending in a north-south direction are apparent in the Telkwa coalifield, especially on the south side of the Telkwa River. Porphyritic Late Cretaceous dykes and sills also occur locally within the coal measures.

During the Tertiary much of the area on the north side of the Telkwa River was intruded by a large granodiorite and quartz monzonite intrusion. The igneous body, which vertically intruded the Skeena sediments, complicated the structural geology of the area further. This is especially apparent at close proximities to the intrusive body on the northern coal licences. Structural repercussions in the Skeena sediments appear to be represented by high angle faulting, establishing a mosaic of structural blocks that have been rotated and tilted into a variety of orientations. No specific orientation has been observed to the faulting although faults are apparent in concentric geometries near the intrusive body and also appear to crudely radiate from the intrusive edge. Fault displacements have been observed to range from only a few metres to more than 150 metres.

Although bedding orientations within the Telkwa Property resource areas tend to be fault block controlled, each with independent orientations, dips normally range from 10 to 30 degrees. In the fault blocks associated with the Pit #3 resource area dips are typically 20 degrees to the east, while within the blocks of Pit #7 & #8 they average 17 degrees to the east and northeast respectively. In the Northwest Area, block orientations are to the southeast and southwest, with dips ranging from

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10 to 35 degrees. Tenas Creek orientations are consistently easterly dipping, normally ranging from 9 to 22 degrees. Within the MCL Whalen Block orientations vary but typically range from 15 to 25 degrees to the east/southeast.

### 3.4 DETAILED GEOLOGY

Exploration work completed by Manalta Coal Limited in 1993 and 1994 was distributed somewhat evenly between the North and South Telkwa coal licences. On the north side of the Telkwa River exploration drill-holes were completed within the Pit #7 & #8 resource areas, the MCL Whalen Freehold Block, and the tailings pond investigation site. These drill-holes were dedicated mainly to the further delineation of the Pit #8 coal trend and reconnaissance drilling adjacent to existing resource areas. Work completed in 1993 also included a tailings pond geophysical survey over the tailings pond study area and a shallow surficial geology drill-hole program.

On the south side of the Telkwa River the bulk of drilling occurred within the Tenas Creek resource area to further delineate field limits, and within the West Tenas Creek area where reconnaissance exploration drilling was initiated. Five additional drill-holes, completed in 1993, were drilled within the Pit #3 resource area, also on the south side of the Telkwa River.

The economic coals found represented within the Pits #3, #7, #8, and Northwest resource areas are those of lithostratigraphic Unit III (Seams #2 - 11). In the Tenas Creek, Cabinet Creek and MCL Whalen areas, however, the main seams of interest are those of the Seam #1 coal sequence of Unit I.

The Pit #7 and #8 resource areas have been modelled utilizing the Lynx Mine Modelling System. The resultant models are considered to be an accurate representation of the geological information obtained to date. The 1993/94 exploration programs have resulted in updates to the geological models, most-

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notably to the southeast end of the Pit #8, where the coal trend has been extended. Additional updates include seam nomenclature of some seams found within Pit #7.

No additional work since 1992 has occurred on the coal licences within the Northwest Area. The area has not been computer modelled to date, as additional drilling is considered necessary to accurately determine its geometry. Minimal work was undertaken within the Pit #3 area in 1993, and time restraints have not yet allowed modelling of the deposit within the Lynx system. The Tenas Creek deposit has also not been computer modelled via the Lynx System as additional exploration is anticipated.

The stratigraphic columns prepared for each of the main resource areas (Enclosure 9) clearly illustrate the typical stratigraphy found within each of the resource areas. It also shows some of the regional variations and trends which occur within seam and interseam lithologies throughout the Telkwa Coalfield. Some of the more notable trends are as follows:

- The coal seams within Lithostratigraphic Unit I, collectively referred to as Seam #1, are separated from the overlying coals of Unit III by up to 140 metres of shallow marine origin sediments. As such the seams have not been intersected by drilling, except on occasion, within most of the resource areas drilled to date. The exception is within the Tenas Creek Resource Area, drilled extensively in 1993 and 1994, where the Unit I coals are the represented target of interest. Correlation of the #1 seams between resource areas is currently unrefined, however, as additional information is required to further determine the consistency and lateral variability of individual seams. Intersections of the #1 seams within the MCL Whalen Block indicate that the seam, at least in this area, is subject to considerable variability, a result of erosional forces by fluvial systems.

- Seam #2 remains consistent throughout much of the property although

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thin partings are apparent within the Pit #3 and #7 resource areas. The seam does, however, exhibit some thickness variability over short distances especially within the northwest portion of Pit #8. Seam #2 Upper, which overlies Seam #2, is thin and developed only within the eastern resource areas north of the Telkwa River. Seam #2 Lower, which underlies Seam #2, also occurs on the northern side of the river but remains significant only within the western resource areas.

- Seam #3 remains one of the most consistent seams in the stratigraphic sequence of Unit III. It is found throughout the resource areas which exploit Unit III, and is consistently split into Seams #3 Lower and Upper by a mudstone parting rarely exceeding one metre in thickness.

- Seam #4 is normally well-developed throughout each of the resource areas but is locally absent from a small area in the southeast portion of Pit #8. Seam #4 Upper, which overlies the #4 Seam, is absent from Pit #7 and the eastern half of Pit #8, but occurs throughout the western part of Pit #8, the Northwest Area, and Pit #3. The parting thickness between Seam #4 and #4 Upper increases progressively in a northwesterly direction attaining a maximum thickness of more than 7.0 metres in the Northwest Area.

- Seam #5, a very well-developed seam, is found throughout the property. It splits, however, midway through Pit #8 where it is represented in Northwest area and the west half of Pit #8 as Seams #5 Lower and #5 Upper.

- Seam #5ex is undeveloped throughout most of the property but progressively develops within the Pit #8 resource area, becoming increasingly apparent on the west side of Pit #8. Within the Northwest Area the seam continues to thicken and represents one of the thickest and best developed seams of the area.
- Seam #6 exhibits considerable variability between the resource areas, splitting from a single seam in Pit #3 to as many as 3 seams in Pit #7. Throughout Pit #7, Pit #8 and Northwest Area the seam is represented as #6 Lower and #6 Upper, separated by a parting normally averaging approximately one metre in thickness. In the Pit #7 area Seam #6 Lower is further split by another parting normally not exceeding 0.50 metres in thickness.

- Although generally thin and considered uneconomic throughout most of the resource areas Seam #7 is laterally continuous and shows little variability throughout the coalfield. The exception is within Pit #7 where the seam is absent from the sequence.

- Seam #8, although present throughout most of the resource areas, exhibits considerable variability with respect to seam thickness, often over short lateral distances. Seam #8, and those seams which overly it, are not well represented within the Pit #7 area since most of the upper portion of the Unit III sequence was eroded from that area prior to glaciation.

- Seam #9, due to its variable thickness and poor quality characteristics, is rarely considered of economic significance. The seam is characterized by visible pyrite banding and as a result has higher than average raw sulphur values in comparison to other seams. Like underlying Seam #8 it often exhibits seam thickness variability and lateral discontinuity.

- Seam #10 is a relatively consistent seam, present throughout most of the Pit #3, Pit #8 and Northwest areas. The seam varies in thickness, however, often over short lateral distances. - Seam #11, the roof of which forms the top of Lithostratigraphic Unit III, is found throughout the Telkwa North resource areas where it is usually a consistent, continuous seam. It does, however, exhibit some regional thinning within the northeast segment of Pit #8.

- Four notable sandstone units have been identified within or proximal to the Seam #2 to #11 coal seam package. The #2 Sandstone, which underlies the #2 and #2 Lower seams represents the thickest, most consistent and predictable sandstone unit of the four. Forming the top of Lithestratigraphic Unit II, it is a massive sandstone in excess of 10 metres in thickness which has been observed to commonly contain pelecypod shells or shell fragment horizons within it. The sandstone unit is most strongly developed on the north side of the Telkwa River.

The #3 Sandstone, stratigraphically located in Unit III between Seams #3 Upper and #4, is present throughout all of the resource areas but remains thickest and best developed within the Pit #3 area south of the Telkwa River. The sandstone unit thins considerably in Pit #7 and continues to thin, becoming finer-grained westward into Pit #8 and Northwest Area.

The #7 Sandstone is situated stratigraphically within Unit III between Seam #7 and #8 and is laterally continuous throughout the resource areas on both sides of the Telkwa River, although is most strongly developed in the Pit #3 area. The unit commonly is interbedded with finer-grained lithologies, most apparent on the north side of the Telkwa River.

The #11 Sandstone, or Unit IV Sandstone as it is sometimes referred to, represents the base of Lithostratigraphic Unit IV and usually directly overlies Seam #11. This marine sandstone is regionally correlatable across the resource areas, displaying only minor variability. The unit does, however, tend to be slightly thinner in Pit #3 than within Pit #8 and Northwest Area.

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#### 3.4.1 Pit #3 Resource Area

Between 1979 and 1984 the Pit #3 resource area had been extensively explored resulting in considerable volumes of information accumulated on the area's Unit III coal measure stratigraphy. The seams (#2 - #11 seam package) subcrop along the western edge of the area, roughly paralleling the Goathorn Creek valley. Most of the seams deteriorate easterly, becoming thinner and poorly developed suggesting that locally, during deposition, a restricted nearshore marine environment persisted to the east (Palsgrove, 1990).

The Pit #3 area is characterized by an east-dipping stratigraphy, repeatedly broken by a series of north/south trending normal faults. Regional dips range from 10 to 35 degrees, averaging 20 degrees, while normal fault displacements range up to 20 metres. In 1993, 5 core-holes were completed at selected sites and additional coal quality information from several seams was collected.

### 3.4.2 Pit #7 Resource Area

In 1993/94 there were few additional drill-holes completed within the limits of the Pit #7 resource area, although several drill-holes were completed proximal to the area. Some of these drill-holes, particularly those occurring stratigraphically down-dip of the Unit III coal measures, intersected the #1 Seam coals of Unit I. In addition, drilling completed within the southeast extension of Pit #8, adjacent to Pit #7, has provided additional stratigraphic information relating to seam relationships between the two resource areas, allowing modifications to correlations to some seams of Pit #7. Significant changes are summarized within Table 3.1.

## Table 3.1

# Pit #7 Seam Nomenclature - Significant changes in 1993

Pre-1993 Seam Nomenclature	Post-1993 Seam Nomenclature
6UC	 6U
6UB	 6LB
6UA	 6LA
6M	 5x
6Lb .*	 5
6La	 5T
, 5R	 5R
5	 4
3U .	 3U
3L .	 3L
2B	 2B
<b>2A</b>	 2A

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To date 19 drill-holes have intersected the Unit III coal measures (Seams #2 - 11) within the Pit #7 area (Enclosure 10). Drill-hole spacing for the area is currently approximately 125 metres. Enclosure 11 presents a summary of all seam intersections and average seam thicknesses encountered within the Pit #7 resource area to date. Individual drill-hole details and seam intersection data is provided within Enclosure 12.

The coal measures trend in a north-south direction and dip east to northeastward until they terminate against a northeast-southwest trending near vertical fault. This normal fault exhibits considerable displacement (approximately 150 metres) juxtaposing thin coal seams possibly of the #1 seams against the Unit III coal seams found in Pit #7. The coal measures also abruptly terminate to the north where Skeena sediments have been intruded by a large Tertiary granodiorite plug. The intrusive truncates the sediments at nearly 90 degrees to bedding and extends beyond Pit #7, further disrupting the coal measures of Pit #8 and Northwest Area. Small-scale faulting has been identified at close proximities to the intrusive contact in other areas and is suspected in Pit #7 as well. The coal seams subcrop to the west and south, as illustrated on cross-sections 7A through 7E (Enclosure 13). Cross-section locations are referenced on the Pit #7 Geology Map (Enclosure 10).

#### 3.4.3 Pit #8 Resource Area

Current exploration for the Pit #8 resource area is such that 55 drill-holes intersect the coal measures of the #2 - #11 seam package of Unit III, providing a drill-hole spacing of approximately 150 metres or less. Drill-hole data has identified that the area consists of two main parallel trending fault blocks which present a repetition of the Unit III coal-bearing sequence (Enclosure 14). Displacement on the normal fault separating the two

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blocks ranges from 40 metres near its southeastern end, to 80 metres at its northwestern terminus with the Tertiary intrusive body. Additional normal faulting has been identified by 1993 drilling within the southeast portion of Pit #8. These faults, trending approximately perpendicular to the regional strike of the area, have displacements ranging from 20 to 80 metres. They are known to break and juxtapose the #2 to #11 coal seam package into a series of smaller fault blocks. Several smaller-scale displacement faults have also been identified, normally occurring at close proximities to the intrusive body.

The coal seams subcrop to the southwest and are constrained on the northeast by the granodiorite intrusive. An area of intense faulting and the absence of coal-bearing sediments terminates the Pit #8 resource area to the northwest. Although displaced by normal faulting the coal trend continues to the southeast, and may continue as far south as the Telkwa River, where the trend is presumed fault terminated. Indications are that the coals historically exploited by the Aveling Mine are extensions of the same seam package, suggesting that additional normal faulting may occur beyond the current limits of drill-hole control. Additional exploration is required to further determine the trend geometry in proximity to the Telkwa River.

Bedding orientations throughout the resource area are generally to the northeast as indicated by area cross-sections 8A through 8L (Enclosure 17). Cross-section locations are referenced on the Pit #8 Geology Map (Enclosure 14). Seam intersection data has been summarized within Enclosure 15 while specific drill-hole details and coal quality information are found within Enclosure 16.

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#### 3.4.4 Whalen Block Resource Area

Within the Whalen Block exploration activities in 1994 included 14 drillholes. Drilling in 1994 has indicated the presence of coals, represented from both stratigraphic coal zones, Unit I and Unit III. Exploration also indicated the localized presence of structurally complex areas where additional exploration is required to fully evaluate seam geometries. The geology map for the area, Enclosure 18, illustrates the approximate subcrop position of the #1 Seam based upon findings to date. However, small-scale faulting is suspected throughout the area. Specific drill-hole details for the Whalen Block are provided within Enclosure 19.

#### 3.4.5 Tenas Creek Resource Area

The coal measures of Tenas Creek Resource area (Enclosure 20) are representative of the #1 Coal Zone of Unit I and may be correlatable, although fault displaced, to seams in the vicinity of Cabinet Creek. To date a drill-hole spacing of 500 metres has been established at Tenas Creek and 24 drill-holes have intersected the seam sequence. Exploration in 1993/94 has established field limits for the deposit and has established an understanding of the Unit I stratigraphy and seam quality. A summary of drill-holes and seam intersection data in the Tenas Creek area, including those of Cabinet Creek, is provided within Enclosure 21. Specific drill-hole details and coal quality are presented within Enclosure 22.

The Tenas Creek stratigraphy trends at approximately 145 degrees and dips gently east / northeastward throughout most of the field. However, along the eastern side of the resource area the coals lie within a synform where they are likely broken, dipping steeply southwestward. The coals within the east limb of the synform either subcrop or are terminated at depth against a north / south trending fault which juxtaposes the Unit I coal

measures against volcanics, presumably of the Hazelton Group. Bedding orientations on the west limb range from 9 to 22 degrees, gradually increasing towards the southern limits of control in the resource area. Orientations along the east limb range up to 45 degrees although additional work is required to further define this structure.

Other than occasional erosional channel features which have eroded segments of the coal measures within their areas of influence, the #1 seams are laterally continuous throughout the extent of the field. Further exploration is required to fully determine the erosional impact of these Cretaceous paleochannels. Thin, discontinuous coals have sometimes been found developed within the confines of these channel structures.

At the field's northern limits Tertiary sediments, presumably associated with the glacial paleochannel of the Tenas Creek drainage, abruptly disrupt the local coal measures stratigraphy. Within the confines of the paleochannel a thickly interbedded sand and gravel blanket in excess of 85 metres was deposited, which now overlies the deeply eroded Skeena Group stratigraphy. The field's southern limits are not well understood and additional exploration is required to adequately determine the area's geometry as well as its relationship with the underlying Hazelton Volcanic basement. Tenas Creek coal-bearing sediments lie unconformably over Jurassic Hazelton volcanic rocks.

The typical stratigraphic column for the Tenas Creek area is included within Enclosure 9. Although several seams occur within the Unit I stratigraphy of Tenas Creek most are thin and not of economic significance. Three seams however, currently identified as c-seam, 1-Upper seam, and 1seam, are consistent in nature and form the mineable component of the Tenas Creek resource. Cross-sections through the area, as referenced on the area geology map (Enclosure 20), are included as Enclosure 23.

#### 3.4.6 Cabinet Creek Area

Field mapping was undertaken in the Cabinet Creek area in 1994. Outcrops were found to exist, almost exclusively within the deeply incised drainage systems of the area, specifically those of Cabinet and Webster Creeks. Although outcrops are dominated by volcanic rock exposures, some coal measures were encountered, particularly at lower elevations along the drainage systems. The area appears to have been affected by considerable structural stresses, as faulting and variability in structural orientation, is apparent.

#### 3.4.7 West Tenas Creek Area

The West Tenas Creek area, explored by reconnaissance exploration drilling in 1994, currently has a drill-hole spacing of 750 to 1000 metres. Drilling to date indicates that most of the area is underlain by volcanics and volcaniclastic sediments, presumably of the Hazelton Group. These basement rocks are, in turn, overlain by thick accumulations of Tertiary sands and gravels up to 165 metres in thickness. No coal-bearing stratigraphy has been intersected to date. The exception is within CL3880, which includes a segment of the Telkwa River which is proximal to known coal measures found within the MCL Whalen Freehold Block.

The poorly consolidated Tertiary overburden blanket remains thickest near the Tenas Creek drainage, thinning westerly to less than 12.5 metres near the western property limits. Field mapping within a deeply incised unnamed creek at the western limits of the property has confirmed the presence of volcaniclastic sediments below a shallow mantle of overburben.

#### 3.4.8 Tailings Pond Investigation Site

Work conducted on the tentative tailings pond location was limited to the 1993 exploration program when surface geophysics and drilling were competed over the affected area. No significant coal measures were intersected by drilling in the study area, which is believed to contain the stratigraphic section which underlies the #1 Seam. Surficial geophysics, as well as shallow drilling, has also confirmed the presence of narrow Cretaceous dikes which disrupt the normal stratigraphy of the area. These dikes intersect bedrock at high angles and are presumably related to similar dikes identified along the banks of Goathorn Creek near the current location of the core storage facility.

#### 3.4.9 Northwest Area

No additional work was performed on the Northwest Resource Area in 1993 or 1994. The reader is referred to the 1992 Geological Assessment Report for specifics of the area and a summary of work completed to date. The evaluation of coal quality for the 1993/94 exploration programs is based upon the analytical results of core obtained from diamond and rotary drill-holes. The primary purpose of the coring programs was to obtain sufficient samples of significant coal seams for reliable determinations of the raw and clean quality characteristics of the Telkwa Coalfield. Analytical data received in 1993 and 1994, as well as that from previous years' analyses, have been compiled and are summarized for the Pit #7, Pit #8, Whalen Block and Tenas Creek resource areas (Enclosures 12,17, 19 and 22 respectively).

Specific lab analyses were performed by Loring Laboratories Limited of Calgary, Alberta. Most samples collected were representative of selected coal lithologies, although some seam roof, floor and parting lithologies were also collected and subsequently analyzed. Specific analyses performed were completed in accordance with the coal quality flowsheet provided as Figure 4.1.

Coal in the Telkwa Coalfield varies from High Volatile A bituminous to semi-anthracite by the ASTM classification of coal rank. The vast majority of the area coals, however, are a High Volatile A bituminous product with RoMax vitrinite values generally ranging from 0.80 to 1.00 percent. Within the coal measures of the Skeena Group sediments, observations are that, coal rank generally tends to decrease slightly for coal units situated higher in the stratigraphic column. Localized occurrences of medium-volatile and semi-anthracite coals are thought to have resulted from either post-Cretaceous heat sources, deeper burial and subsequent uplift of some coal-bearing units, or from localized higher heat flux from the pre-Cretaceous basement (Ryan, B.D., 1992). Increases in coal rank have been observed in coals situated at close proximities to the Tertiary intrusive on the northern resource areas as well as some coals within the Cabinet Creek area.

4.0



\* on selected samples only.

Figure 4.1

4.1 QUALITY CHARACTERISTICS

Coal quality parameters have been determined from core samples recovered since 1979 from each of the resource areas identified thus far in the Telkwa coalfield. The results presented in this report represent a compilation of all analytical results thus far accumulated within resource areas Pit #7, Pit #8 and Tenas Creek. A compilation of analytical data established to date for the Pit #3 resource area is not included in this report as the results of the five additional drill-holes completed in 1993 did not significantly alter the existing Pit #3 database. The reader is referred to previous years' Assessment reports for coal quality details specific to the Pits #1 to #6 resource areas as well as Northwest Area. Composite analytical results for the 1993 Pit #3 drill-holes, however, are presented within Enclosure 24.

Analytical results of all ply samples recovered in 1993 and 1994 are presented within Enclosure 25 while compiled analytical results for seam composites are available for each area, providing details for each drill-hole, within Enclosures 12, 17, 19 and 22.

Analytical quality data resultant from core extracted in 1993 and 1994 have provided additional information to the existing Telkwa seam quality database. Raw ash values for main seams vary widely as might be expected, ranging from 7.85% to over 50.00%. A similar variability exists with respect to the raw sulphur contents of individual seams, with values normally ranging from 0.30% to 7.77%. It has been observed, however, that although the sulphur contents between different seams within the statigraphic column may vary, seam-specific values remain relatively consistent throughout the extent of the field. In contrast, volatile matter, fixed carbon and calorific values normally remain consistent between all Telkwa seams. The exception is within the #1 Seam package of Tenas Creek which characteristically exhibits slightly lower volatile matter percentages than do all other seams in the Telkwa stratigraphy. This is likely due to a slight increase in coal rank for seams located in the lowermost part of the Telkwa stratigraphy, specifically those of Unit I.

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5.0

Quantities of in-situ coal have been determined from drill-hole seam intersection information gathered between 1979 and 1994. Specific resource areas have been identified, each of which represents an independent coal deposit within the limits of the Telkwa Coalfield. Each possesses unique characteristics with respect to deposit geometries and all target the coal measures of either Unit I or Unit III.

Coal resources prepared for this report have been classified according to the Standardized Coal Resource/Reserve Reporting System for Canada compiled by the Geological Survey of Canada (1989). Due to the nature of the Telkwa deposit, the resource areas identified thus far within the coalfield have been classified as *complex* geological deposits. As a result the drill-hole density which currently exists allows the Pit #7 and much of the Pit #8 coal resource to be classified as *measured*, while the Pit #3 area is considered *indicated to measured*. The Tenas Creek prospect has been classified as *indicated*, and still requires additional work to fully establish field limits and deposit geometry. The Whalen Block also requires additional work and has an *inferred to indicated* resource.

#### 5.1 RESOURCE CRITERIA

It is the intent of this study to report the total quantity of significant coal occurring within resource areas identified or further delineated by 1993 and 1994 exploration activities. While this report specifically details the Pit #3, Pit #7, Pit #8, Whalen and Tenas Creek Resource areas, in-situ geological reserve estimates for all Telkwa resource areas are provided on Table 5.1. Quantities reported consider only those seams which are of technically recoverable thickness, and does not consider depth of burial.

Resource estimates have been prepared based upon drill-hole seam intercept information established from geophysical log signatures. Resource areas for which geological computer models were generated include Pit #3, Pit #7 and Pit #8. As

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such, total in-situ reserves were determined for these areas via computer modelling software. For the Tenas Creek and Whalen areas, resource estimates are based upon simpler, more direct measurement methods.

Table 5.1

Estimated In-situ Geological Coal Reserve; Telkwa Property

	Resource Area		Geological Reserve (M. tonnes)			Confidence Level
Felkwa North:	Pit #7 Area		4.33			Measured
	Northwest Area Whalen Block	  	18.50 11.06 8.63 <b>42.52</b>	_		Indicated & Inferred Indicated & Inferred Indicated & Inferred
relkwa South:	Pit #1,2 Area		3.37	*		Índicated
	Pit #3 Area		12.86	*	<del></del>	Measured & Indicated
	Pit #4 Area	<del></del>	0.56	*	<u></u>	Inferred
	Pit #5 Area		0.34	*		Inferred
	Pit #6 Area		1.80 <b>18.93</b>	*		Indicated
	Cabinet Creek		3 71	*		Inforred
	Tenas Creek		27.37			Indicated
		. •	31.07			
Telkwa	a Property Total:		92.52	Mi	illion tonne	es

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For the Tenas Creek and Whalen areas average seam thickness values were calculated and subsequently the surface area that each seam occupied was measured for each area. The resultant reserve estimates for the Whalen and Tenas Creek resource areas are based upon the following formula:

R = A x Th x SG

where R = Coal Resource (tonnes).

A = Area occupied by a particular seam (m2).

Th = average seam thickness for a particular resource area (m).

SG = the Specific Gravity of a particular seam (g/cm3 = t/m3).

#### 5.1.1 Pit #3 Reserve

The Pit #3 resource area was computer modelled via Eagle Mine Modelling software in 1984 by Shell Canada Ltd. Since acquisition of the property by Manalta Coal Ltd. in 1992 there have been verifications of the Model although to date the area has not been remodelled into a system currently maintained by Manalta.

Exploration drilling completed in 1993 by Manalta in the Pit #3 area did not result in significant changes to the current geological interpretation of the area. As such, in-situ reserve estimates were not regenerated and currently remain at 12,860,000 tonnes.

#### 5.1.2 Pit #7 Reserve

A computer model was generated for the Pit #7 resource area via the Lynx Mine Modelling System in 1992 by Manalta Coal Ltd.. Additional drilling completed in the area in 1994 did not alter the deposit, and consequently the geological model, significantly.

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Only seams which attained potentially mineable thickness were modelled, and thus ultimately considered within the reserve calculations of the Pit #7 resource block. Criteria for seam selection was based primarily upon seam thickness; generally seams which exhibited thicknesses of 0.50 metres or greater were included in the volume calculations. Partings with thicknesses exceeding 0.30 metres were considered separable and were not included as part of the seam package. Seams utilized in the reserve calculations, which are equivalent to those modelled, include:

- Seam 2
- Seam 3L
- Seam 3U
- Seam 4
- Seams 5 and 5R
- Seam 6L
- Seam 6U

Seams overlying the #6 coal package were not considered as they were intersected only by one drill-hole and are not adequately represented within the field. The total in-situ coal reserve thus calculated for Pit #7 is 4,327,000 tonnes.

#### 5.1.3 Pit #8 Reserve

Like the Pit #7 area the Pit #8 resource area was modelled via the Lynx Mine Modelling System in 1992. Due to additional drilling in the area in 1993 the Model was subsequently updated to incorporate the additional data.

Pit #8 represents a more complex geological deposit than Pit #7, consisting of two main fault blocks and several smaller fault zones that exhibit minor displacement. In addition the Pit #8 resource area is considerably larger, within which the entire Unit III coal package is well represented. Criteria utilized for reserve estimate calculations are equivalent to those of Pit #7. Seams considered in the reserve calculations, which are equal to those which were modelled, include:

- Seam 2

- Seam 2L where present in significant thicknesses .

- Seam 3L and 3U

Seam 4

- Seam 4U when significant thicknesses were attained
- Seam 5 (which splits to become 5U and 5L westward)
- Seam 5ex where present in significant thicknesses
- Seam 6L and 6U
- Seam 7 in areas where thicknesses met the desired criteria
- Seam 8 in areas where thicknesses met the desired criteria
- Seam 9 in areas where thicknesses met the desired criteria

The reserve estimates are inclusive of all modelled coal seams within the current limits of geological control. Seam extrapolations extend southeastward as far as the Telkwa River valley incision where they are believed to fault terminate. The total in-situ coal reserve thus far established for the entire Pit #8 resource area is 18,499,000 tonnes.

#### 5.1.4 Whalen Freehold Block

Drill-hole seam intersection summaries for the Whalen Block are found within Enclosure 19. Seam surface areas were planimetered from the area geology map (Enclosure 18). Significant folding has not been observed within the area although normal faulting is suspected. Bedding dips average 22 degrees in a northeast direction.

The total in-situ coal reserve for the current explored limits of the Whalen resource area has been estimated at 8,634,000 tonnes for all seams considered mineable. Additional work is considered necessary to further delineate field limits, deposit geometry and ultimately bring the coal reserve to a measured level.

#### 5.1.5 Tenas Creek Area

The Tenas Creek resource area was drilled in 1993 and 1994 allowing field limits to be crudely established for the area. The current level of drill-hole control in Tenas Creek allows its coal reserve classified as indicated.

Tenas Creek drill-hole seam intersection summaries are provided within Enclosures 21 and 22. An average specific gravity of 1.43 was used for the #1 Seam, based upon analytical results from the core-holes completed in the area. Bedding orientations throughout most of the Tenas Creek deposit range from 9 to 22 degrees, dipping northeasterly.

The total in-situ coal reserve identified for Tenas Creek Area is 27,366,000 tonnes, based upon the 3 potentially mineable seams; c-seam, 1U-seam and 1-seam. Additional work is required to fully delineate field limits, establish the deposit geometry, and determine recoverable coal quantities.

Details of costs incurred during the 1993 and 1994 exploration programs are provided within the Cost Summary Report (Enclosure 26). The summary presented represents the total expenditures to date relating to the Telkwa Project 1993/94 exploration activities.

The Skeena Group sediments of the Telkwa Coalfield is an erosional remnant of Lower Cretaceous sedimentary rock deposited along the southern flank of the Bowser Basin. Throughout the Lower Cretaceous sedimentation occurred during which time deposition was influenced by two regressive / transgressive episodes. As a result the stratigraphic sequence is divisible into four lithostratigraphic units, Units I through IV. The lithologies within Units I and III are representative of the regressive episodes and, in turn, the periods of significant peat development in the Telkwa area. The coals within Unit I, collectively referred to as Coal Zone 1 are separated from the Unit III coals by as much as 140 metres of mainly marine sediment. Coal seams #2 through #11, represented in Unit III, collectively contribute 20.5 metres of coal to the Unit's 85.0 metre average thickness.

Since deposition the Skeena Group sedimentary package has been modified by faulting and minor folding resultant from continental stresses that persisted throughout much of the Upper Cretaceous and Tertiary. In addition, during the Eocene of the Tertiary Period, an igneous body intruded the Skeena sediments, further disrupting and faulting the sedimentary package. As a result much of the area is characterized by high angle faulting, breaking the area into a mosaic of structural blocks that have been rotated and tilted into a variety of orientations. Each of the resource areas identified to date are representations of such fault blocks.

Several resource areas have been identified in the Telkwa area and since the early 1900s the area has been sporadically mined, exploiting the Unit I and Unit III coals. It was not until the late 1960s, however, that drilling as a means of identifying potential resource areas was utilized. Between 1979 and 1989 Shell Canada/Crowsnest Resources completed several exploration programs, completing 263 drill-holes and highlighting several resource areas, most of which are located on the south side of the Telkwa River.

The Telkwa Property coal licences have been held by Manalta Coal Limited since May 1st, 1992 and since that time Manalta has completed three exploration programs on the property. While several areas of potential economic interest were identified by the

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property's previous owners, 1993/94 exploration activities were focused on further delineation of the Pit #7, Pit #8 and Tenas Creek resource areas, and reconnaissance exploration of the Tenas Creek West and MCL Whalen Freehold areas. Between the two annual exploration programs Manalta Coal completed 110 drill-holes and 21 kilometres of surface geophysics. Much of work undertaken by Manalta in 1993/94 was completed on the south side of the Telkwa River in the Tenas Creek area. Coal samples were collected from all cored drill-holes for subsequent analysis as were rock samples from representative cores for ARD testing.

The vast majority of the Telkwa area coals explored to date are a High Volatile A bituminous product by ASTM classification of coal rank. Medium Volatile bituminous as well as occurrences of semi-Anthracite coal are also known to exist. While the majority of Telkwa coals are relatively consistent with respect to raw calorific value, volatile matter and fixed carbon values, variations in raw ash and sulphur values occur between seams. Sulphur content variations between some seams is attributed to periodic infiltrations of marine water into the developing peat swamp, while inundations are thought to have terminated development of some of the coal seams.

Resources calculated for the Pit #7 and Pit #8 Resource Areas by Manalta Coal Limited were completed using computer models constructed via the Lynx Mine Modelling system. For the Tenas Creek Area manual methods for resource estimates were utilized. Estimated in-situ geological coal reserves for the five resource areas detailed in this report total 71.69 million tonnes. In-situ reserves for all resource areas identified thus far within the Telkwa Property limits are estimated at 92.52 million tonnes.

CONCLUSIONS

Significant reserves of High Volatile A bituminous coal have been identified within the Telkwa Coal Property limits currently held by Manalta Coal Limited. While the primary value of Telkwa coal is as a thermal product, some of its properties allow it consideration as a low grade coking coal. The coal reserve identified thus far within the property licences is represented by the coals associated with Unit I and Unit III, most of which has been identified within resource areas Pit #3, Pit #7, Pit #8, Northwest Area and Tenas Creek.

The coal reserve identified to date is known to lie within individual fault blocks, or Resource Areas, each with independent field limits and deposit geometries. Results from the 1993/94 exploration programs have aided in further definition of the geology of the Tenas Creek, Pit #7 and Pit #8 resource areas, providing additional coal quality information and better understanding of deposit geometries. While the structure encompassing the Pit #7 and #8 resource areas are closed, Tenas Creek field limits have not yet been established at its southeastern end and as a result additional exploration in this area is required. The resource areas identified as Whalen Block and Tenas Creek West were previously unexplored and, in 1993/94, were identified and partially delineated by the years' exploration activities. Additional exploration in the Whalen Block is required to fully evaluate its geometry and resource potential.

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$\stackrel{\scriptstyle }{\times}$	COAL MINE (ABANDONED)
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-	GEOTECHNICAL DRILL HOLE
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#### PITEAU ENGINEERING LTD. HYDROGEOLOGICAL AND GEOTECHNICAL CONSULTANTS

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# TELKWA COAL PROJECT WATER MANAGEMENT OF TAILINGS POND

AND PITS 7 AND 8

JonesA

PREPARED FOR:

MANALTA COAL LTD.

KI93-3773-3

#### KI93-3773-3 APPENDIX I, TAILINGS POND SITE INVESTIGATION

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#### 1. DRILLING PROGRAM

A total of ten test holes were drilled in the tailings pond area at the locations shown in Figure 2. A diamond drill with a tricone bit and water was used to drill to bedrock to a maximum of 8 m. Classification of the unconsolidated overburden was based on observations of the colour of the return water, gradation and consistency of the drill cuttings, penetration rate, drill vibration, and drilling difficulty. The results of the test holes are presented in Table 1. Reference should also be made to the nine test pits excavated in the tailings pond area as part of the 1989 investigation reported in 1990 by PEL. The test pit locations are shown in Figure 1.

#### 2. GEOPHYSICS PROGRAM

### 2.1 INTRODUCTION

The goal of the geophysical investigation was to describe the surficial geology as it pertains to the suitability of the location for a tailings pond. Specifically, the objectives of the survey were to describe:

- unconsolidated overburden thickness and characteristics;
- bedrock characteristics; and,
- depth to groundwater.

Conditions were assessed by means of the following methods of geophysical investigation: electrical conductivity, magnetometer, very low frequency electromagnetics, DC resistivity, and seismic refraction.

KI93-3773-3

	TABLE 1
	TEST HOLES
	Hole 1
0 to 8.2 m	<ul> <li>Light brown silt with some clay, sand and gravel, cobbles and boulders.</li> <li>Layered with some clayey zones and other fairly clean, sandy gravelly zones.</li> <li>150 mm silty fine sand zone at 3.0 m; less clay below this depth.</li> <li>Very slow drilling from 3.0 m to 7.3 m.</li> <li>No clayey lumps, cobbles or boulders below 6.4 m.</li> </ul>
	Hole 2
0.to 3.6 m	<ul> <li>Light brown silt with clay and some sand, trace of gravel cobbles and boulders - till.</li> <li>Grey-brown fine to coarse sand and gravel from 3.0 m to 3.4 m.</li> </ul>
3.6 to 8.2 m	<ul> <li>Grey-brown silty fine to coarse sand and gravel with occasional cobbles and gravel.</li> <li>Occasional layers or lenses of light brown silt.</li> </ul>
	Hole 3
0 to 3.6 m	<ul> <li>Brown silty, clayey sand and gravel with occasional cobbly, bouldery zones.</li> </ul>
3.6 to 5.8 m	<ul> <li>Grey-brown fine to medium sand with little silt and occasional gravel and cobbles.</li> <li>Lost circulation at 4.9 m.</li> </ul>
5.8 to 8.2 m	Very hard, slow drilling - no return - possible bedrock/boulders.
	Hole 4
0 to 8.2 m	<ul> <li>Light brown silty sand and gravel with occasional cobbles and boulders and trace of clayey lumps.</li> <li>Sporadic water return down to depth of 2.4 m. Water was returned below 2.4 m.</li> <li>Very cobbly and slow drilling from 5.2 m to 5.5 m.</li> <li>From 7.0 m to 8.2 m, bit is plugging, but relatively easy drilling. Water return is very silty.</li> </ul>
	Hole 5
0 to 4.3 m	<ul> <li>Light brown silty clay. Bit plugging sometimes to 2.1 m.</li> <li>Becoming sandy and gravelly with occasional cobbles below 2.1 m.</li> </ul>
4.3 to 7.3 m	<ul> <li>Light brown clayey silty sand with occasional gravel.</li> <li>Boulder from 7.0 m to 7.3 m.</li> </ul>

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## **APPENDIX I, TAILINGS POND SITE INVESTIGATION**

	TABLE 1
	TEST HOLES
7.3 to 8.2 m	Same as above, but clayey lumps not observed.
	Hole 6
0 to 2.1 m	<ul> <li>Light brown silty water return, but no solid cuttings in return.</li> <li>Drilled very easily.</li> </ul>
2.1 to 4.6 m	Light brown silty sand, gravel and cobbles with occasional boulders.
4.6 to 8.2 m	<ul> <li>Grey-brown fine to medium sand with little silt. Sand appears to be grading finer with depth and bit is plugging.</li> <li>Colour is dark grey-black from 7.6 m to 8.2 m.</li> </ul>
	Hole 7
0 to 8.2 m	<ul> <li>Light brown clayey silt with sand and gravel.</li> <li>Cobbly/bouldery from 1.8 m to 2.4 m.</li> <li>Very sandy (bit plugging) from 3.0 m to 3.7 m and at 6.4 m.</li> <li>Hard drilling from 5.8 m to 6.1 m (boulder).</li> </ul>
1	Hole 8
0 to 3.2 m	Light brown clayey silty sand and gravel with occasional cobbles.
3.2 to 4.3 m	Volcanic bedrock.
	Hole 9
0 to 5.8 m	<ul> <li>Light brown clayey silt with sand and gravel and occasional cobbles.</li> <li>Very cobbly at 1.5 m.</li> <li>Bit plugging at 1.8 m to 2.1 m (clayey zone).</li> <li>Grading sandier with fewer cobbles below 2.4 m.</li> <li>Fine to medium sand at 4.6 m to 5.2 m. Bit plugging at 5.2 m.</li> <li>Refusal at 5.8 m. Boulder. No cuttings return.</li> </ul>
	Hole 11
not drilled	Hole not drilled. Volcanic bedrock encountered within about 0.3 m     of surface when dozer was preparing drill site.

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#### KI93-3773-3 APPENDIX I, TAILINGS POND SITE INVESTIGATION

#### 2.2 FIELD METHODS

#### Grid Layout

Thirteen approximately north/south lines were flagged and cut across the survey area (Figure 2). The lines were spaced from 50 to 100 m apart, and varied in length from about 400 to 1,700 m, for a total of approximately 19 km of cut line. Coordinates along each line were chained and flagged every 20 m. Geophysical field data collection was spatially referenced to these flagged coordinates. Several points along each line were subsequently fixed using GPS (Global Positioning System) and standard surveying techniques as performed by a surveying contractor. These fixed points were then used to place the geophysical survey lines onto a UTM (Universal Transverse Mercator) coordinate system. The baseline for all the cut lines was the road at the southern boundary of the site.

#### **Terrain Conductivity Surveys**

Terrain conductivity is defined as the bulk electrical conductivity of the subsurface. Two terrain conductivity devices were used, the Geonics EM31 and EM34. For low terrain conductivity environments (in contrast to sulphide deposits, for instance), these systems are superior to other induction methods in that they digitally output a value of a physical property, terrain conductivity. The purpose of areally mapping terrain conductivity was to permit tentative description of overburden and perhaps bedrock lithology.

The EM31 and EM34 are similar in their basic theory of operation, but differ in their respective depths of investigation. Generally, the depth of investigation of an electromagnetic (EM) device is controlled by:

- The transmitter/receiver intercoil spacing,
- The transmitter frequency, and
- The dipole (or coil) orientation.
The EM31, with an intercoil spacing of 3.7 m, has a depth of investigation of 6 m in the vertical dipole mode. The lower frequency EM34, when operated in the horizontal dipole mode with a 20 m intercoil spacing, has a depth of investigation of 15 m.

Metals are generally excellent conductors. Buried metal such as pipelines, therefore, may significantly increase the terrain conductivity. Terrain conductivity devices, however, are designed to measure relatively low values of conductivity; even a brine saturated soil will have a conductivity far less than a steel pipe. In an extremely conductive environment, the response of terrain conductivity devices is no longer termed as linear. For this reason, pipelines may appear as a mixture of positive and negative terrain conductivity anomalies, a physical impossibility, but a diagnostic indication of buried metal or a source of electromagnetic noise.

EM31 data were collected on all lines, with a station spacing of 5 m. EM34 data were gathered on the eastern two-thirds of the site, using a station spacing of 20 m.

### Magnetometer Survey

A total field magnetometer measures the intensity of the earth's magnetic field in units of gammas. Sedimentary rocks are generally non-magnetic; igneous rocks are usually moderately to highly magnetic due to their high magnetite content. Oxidation and reduction reactions in faults and fractures may also produce mineral alterations which appear as magnetic anomalies. Hence, shallow sedimentary/igneous contacts or igneous intrusions should appear as significant changes in the total field measurements. The objective of the magnetometer survey was, therefore, to differentiate volcanic from sedimentary bedrock, and perhaps locate faults, fractures, and dykes.

The Telkwa survey was performed with a GSM-19 Overhauser memory magnetometer. The GSM-19 can operate simultaneously with a Very Low Frequency EM (VLF) instrument, thus saving an additional field excursion. Magnetic data were gathered along nine lines spread across the site. A station spacing of 20 m was used.

### KI93-3773-3 APPENDIX I, TAILINGS POND SITE INVESTIGATION

#### Very Low Frequency EM (VLF)

VLF mapping operates on the same principles as other EM mapping techniques. Induced secondary magnetic fields are set up within subsurface electrical conductors such as saturated fractures. The in-phase (dip) and out-phase (quadrature) components of the vertical component of these secondary fields are measured in percentages of the transmitted EM field. Across a conductor's midpoint the dip component "crosses over" from positive to negative percentages. The sharpness of a cross-over depends on a conductor's geometry, depth, conductance, and the transmitted EM field's azimuth and frequency. Unlike the EM31 and EM34, the VLF is only a receiver. The EM field is transmitted from submarine communication towers over a distance of hundreds or thousands of kilometres.

The survey objective was to map geologic lineaments including fractures, faults, and sedimentary/igneous contacts. For these lineaments to be mappable, they must have a significant conductivity contrast due to mineralization, increased porosity, or clay infilling.

The GEM Systems VLF unit was mated to the magnetometer so that the two surveys could be performed in a single site tour. Although the VLF can simultaneously tune into three VLF transmitters from three different azimuths, only the signal from Cutler, Maine, was of sufficient strength to be of use. VLF data were gathered along nine lines spread across the site. A station spacing of 20 m was used.

### **DC Resistivity Soundings**

Resistivity soundings are performed by moving an outer pair of current electrodes about an inner pair of voltage electrodes centred over a fixed point. The further apart the current electrodes are placed, the deeper into the earth the current flows. If one measures the amount of current passed through the earth from a surface power source, the resultant voltage across the two inner electrodes, and the placement locations of the electrodes, then the resistivity of the earth over a specified volume can be estimated. This volume will vary with the geometry of the electrode placements. As a very general approximation, the depth of investigation of resistivity techniques is about equal to half the current electrode spacing (usually noted as AB/2).

# KI93-3773-3 APPENDIX I, TAILINGS POND SITE INVESTIGATION

The advantage of resistivity over conductivity methods is that the former can provide relatively detailed electrical measurements versus depth. The objectives of the resistivity surveys, therefore, were to map changes in overburden with depth at a few locations, and to estimate the depth to bedrock.

The instrument used was the ABEM Terrameter SAS 300C. It is particularly well adapted to remote field surveys as the transmitter is very compact and has a low power consumption.

Seven resistivity soundings were performed. Their locations are overlayed on the EM31 plot (Figure 2).

#### Seismic Refraction

Seismic refraction investigations involve the measurement of the travel time of acoustic energy in the subsurface with the goal of mapping the depth to, and velocity of refractors (high velocity subsurface layers). Successful seismic refraction investigations can provide very accurate depths to bedrock and detailed profiling of bedrock relief. Igneous rocks will generally have much greater compressional wave velocities than sandstones and shales, and therefore will be easily distinguishable as bedrock refractors.

A 24-channel Bison 7024 engineering seismograph with 40 Hz geophones was used. A 16 lb. sledge hammer was used as the energy source. A single line of five overlapping spreads was shot. A geophone spacing of 1 m was used, for a total line length of 108 m. The line was run along the road at the south end of the site, with the midpoint of the line in proximity to drillhole #2 (see Figure 2).

The Generalized Reciprocal Method of seismic refraction data collection and processing was used. Seven records were plotted for each spread, including off-end, end, quarter-spread, and mid-spread shots. Using this technique, a depth to the refractor can be determined below each geophone.

# 2.3 RESULTS

### Terrain Conductivity Surveys

EM31 and EM34 data are plotted in Figures 2 and 3. Interpretations are summarized in the composite plot of Figure 2.

A few general trends can be observed. The EM31 data indicate that conductivities increase from west to east. The conductivity range of 0 to 10 mS/m (blue to green) observed in the west is probably due to a combination of shallow volcanic bedrock, coarse-grained colluvium, and areas of elevated relief and consequently greater depth to groundwater. EM31 conductivities of 10 mS/m or less are typical of clean sands and gravels with little silt and little, if any clay. Moving east toward the marsh, and south toward the proposed plant site, shallow conductivities increase to the range of 10 to 20 mS/m (light green to yellow). These conductivities are typical of silty sands and silts, with little to some clay. From the marsh eastward, EM31 conductivities increase to the range of 20 to 45 mS/m (orange to pink). This range represents an increasing percentage of fines. Conductivities exceeding 30 mS/m probably indicate silt to silty clay till or lacustrine deposits.

The alternating EM31 conductivity highs and lows running parallel to the pipeline right-of-way are due to a buried pipeline. Similarly, the north/south and east/west conductivity highs observed in the southeast corner of the EM34 plot are also due to buried pipelines.

EM34 conductivities generally range from 10 to 20 mS/m over the same area in which the more shallow looking EM31 conductivities range from 20 to 45 mS/m. This suggests that the overburden materials become increasingly clean with depth. Using the drilling information as a guide, it appears that the EM31 is responding largely to materials from surface to a depth of 2 to 4 m, while the EM34 is responding to materials below this depth. EM34 conductivities do increase slightly in the northern 400 m of the surveyed area, where they fall in the range of 15 to 30 mS/m.

#### Magnetometer and VLF Survey

Total field magnetic data are presented in the colour contoured plot of Figure 4. Clearly, there is a significant change in the magnetic character of the bedrock moving toward the east, and occurring approximately along the meridian 621,000 E. Observed outcrops, drilling investigations, increased relief, and increased conductivities suggest that bedrock material to the west is of volcanic origin. It is believed that the volcanic/sedimentary contact can be roughly defined by the 57,540 gamma contour (blue zones). The precise interpretation of this contact is difficult without a better understanding of the general geology of the area. It is unlikely that the contact is sharp (fault-like or the edge of an extrusive body) as the contour lines are widely spaced. It is more likely that the contact represents an increased thickness of sedimentary rocks over volcanic rocks. As overburden materials and sedimentary bedrock are generally indistinguishable using magnetics, it is possible that even in the western portion of the surveyed area, volcanic extrusives may be below shales and sandstones.

In several areas, total field contours are tightly spaced and pod-like (e.g. at test pit #4, west and south of test pit #9, the northwest corner of the survey). Some of these pods line up in roughly east/west linear trends. A possible interpretation of these lineaments is that they are igneous dykes.

Several of these lineaments may be defined by the VLF inphase data of Figure 5. The indicated dykes have been highlighted, taking into account both VLF inphase cross-overs and the magnetic data.

Unfortunately, the VLF data are relatively noisy. This is largely due to the great distance from the VLF transmitter used located at Cutler, Maine, USA, and the difficulty of laying perfectly straight cut lines through the rough terrain at the site.

The booming VLF and multiple magnetic anomalies in the southeast corner of the surveyed area (south of test hole #4) are due to a buried pipeline.

# KI93-3773-3 APPENDIX I, TAILINGS POND SITE INVESTIGATION

# **DC Resistivity Soundings**

While DC resistivity soundings did provide valuable information supporting the overburden data gathered in the EM surveys, the soundings did not identify the overburden/bedrock contact. The electrical properties of the overburden and bedrock are too similar to be distinguished.

Appendix I displays the results of the seven resistivity soundings. Two plots are presented in each figure. The first plot presents the acquired field data on a log-log plot of apparent resistivity (resistivity values measured at surface versus the "true" resistivity of an actual lithologic feature) versus the half-spread current electrode spacing. Increasing electrode spacing indicates increasing depth of investigation.

A curve lies approximately over each data set. The curve was created from a geoelectric model depicted in the second plot. All layers are modelled as being horizontal and laterally continuous, a necessary assumption that may be a crude approximation.

Immediately evident in each of the seven models is an inability to define the overburden/bedrock contact. This can probably be attributed to a lack of a significant resistivity contrast between the overburden materials and the bedrock. As each of the soundings was carried out to a half-spread of 50 m, the depth of investigation probably reached well into the bedrock. If it is assumed that the resistivity of the igneous bedrock greatly exceeds that of the unconsolidated overburden, the resistivity soundings are probably a good indication of sedimentary bedrock existing to a depth of at least 30 to 50 m beneath each sounding.

Conductivity and resistivity are analogous in that conductivity is the inverse of resistivity. The units of conductivity are mS/m (milliSiemens per metre), and the units of resistivity are ohm-m (ohm-metres). To convert conductivity readings in mS/m to resistivity readings in ohm-m, one simply divides the conductivity readings into 1,000. For instance, 20 mS/m is the equivalent of 50 ohm-m.

Modelled resistivities fell in the range from 20 to 600 ohm-m (1 to 50 mS/m); the predominant range was 50 to 100 ohm-m (10 to 20 mS/m). These observed ranges of resistivity correspond to the conductivities measured by the EM34.

The data are generally scattered, with relatively poor fits to the least square curves. This is not due to instrument noise, but is an indication that the assumption of horizontal, lateral continuity of beds does not necessarily hold. The drilling indicates that considerable heterogeneity exists in the overburden materials.

# Seismic Refraction

The seismic refraction data are summarized in Figure 6. What has been mapped is a simple twolayer case of one to two metres of low velocity material (200-300 m/sec) over a refractor of 2,000 m/sec. The first layer is probably dry sand. The second layer is probably saturated sand; the refractor is the water table. No deeper refractor could be observed, even when the seismic source was moved 100 m from the line. This suggests that the saturated overburden and bedrock materials have similar seismic velocities; thus, there is no refraction of the seismic wave front. Although a depth to bedrock cannot be defined, the data indirectly suggest that the bedrock material is sedimentary. Igneous rock would probably have velocities of at least 5,000 m/sec, and therefore would function as an excellent refraction surface.

# **3. INTERPRETATION**

The following discussion is based on the drilling program and interpretation of the different geophysical techniques used to assess the soil conditions across the tailings pond site. The results of the test holes (1993) and test pits (1989) were incorporated as calibration points into the geophysics interpretation.

1. The EM31 data indicate that conductivities increase from west to east. The conductivity range of 0 to 10 mS/m observed in the west is probably due to a combination of shallow volcanic bedrock, coarse-grained colluvium, and areas of elevated relief and consequently greater depth to groundwater. EM31 conductivities of 10 mS/m or less are typical of sands and gravels with little silt and a trace to no clay. It is noted that even minor percentages of silt and clay of 10 to 20 percent or more can result in relatively low levels of hydraulic conductivity.

# KI93-3773-3 APPENDIX I, TAILINGS POND SITE INVESTIGATION

- 2. Moving in a southeast direction from the northwest corner of the area, shallow conductivities increase to the range of 10 to 20 mS/m. These conductivities are typical of silty sands and silts, with little to some clay. From the marsh eastward, EM31 conductivities increase to the range of 20 to 45 mS/m. This range probably represents an increasing percentage of fines. Conductivities exceeding 30 mS/m probably indicate silt to silty clay till or lacustrine deposits.
- 3. EM34 conductivities generally range from 10 to 20 mS/m over the same area in which the more shallow looking EM31 conductivities ranged from 20 to 45 mS/m. This suggests that the overburden materials become less silty with depth. Using drilling information as a guide, it appears that the EM31 is responding largely to materials from surface to a depth of 2 to 4 m, while the EM34 is responding to materials below this depth. EM34 conductivities do increase slightly in the northern 400 m of the surveyed area where they fall in the range of 15 to 30 mS/m.
- 4. Observed outcrops, drilling investigations, increased relief, and increased conductivities suggest that bedrock material in the western portion of the surveyed area is of volcanic origin. The precise interpretation of this contact is difficult without a better understanding of the general geology of the area. It is unlikely that the contact is sharp or fault-like as the contour lines are widely spaced. It is more likely that the contact represents an increased thickness of sedimentary rocks over volcanic rocks.
- 5. Several lineaments defined by the magnetic and VLF inphase data may be indicative of roughly east/west trending dykes.
- 6. Resistivity methods do not appear capable of resolving the overburden/sedimentary bedrock contact. The data indirectly suggest that the bedrock material at each of the sounding sites, to a depth of at least 30 to 50 m, is sedimentary. Modeled resistivities in the overburden fell in a range similar to the observed conductivities as measured by the EM34. The resistivity data are generally scattered, with relatively poor fits to the least square curves. This is probably an indication that the assumption of horizontal, lateral continuity of beds does not necessarily hold. Drilling confirmed that the overburden materials are heterogeneous.

7. Seismic refraction methods do not appear capable of resolving the overburden/ sedimentary bedrock contact. However, the data indirectly suggest-that the bedrock material beneath the seismic line is sedimentary.













# TELKWA PROPERTY; DRILL-HOLE CO-ORDINATE LISTING

:

(10 10	e end of ariting	, 1994)		
HOLE #	NORTHING	EASTING	ELEVATION	TOTAL DEPTH
			(m asl)	(m)
T79R01	6055880.20	621340.00	670.48	189.00
T79R02	6054415.00	621393.10	744.08	237.80
T79R03	6054639.90	622372.70	727.64	237.74
T79R04	6057508.50	621491.80	604.70	71.30
T79R05	6062359.40	615618.50	888.81	201.20
T79R06	6062996.00	615952.30 <sub>.</sub>	875.09	42.70
T79R07	6062569.20	614517.10	895.26	24.40
T79R08	6062877.50	615725.60	879.62	24.70
T79R09	6062590.00	615817.60	891.40	24.70
T79R10	6058538.00	618143.60	754.13	225.90
T79R11	6058688.20	619564.40	658.89	7.60
T79R12	6059818.70	620761.00	596.91	48.80
T79R13	6054761.20	621457.70	719.08	128.01
T81D112	6052883.11	621815.40	889.34	235.00
T81R101	6055183.96	622157.27	691.31	252.00
T81R102	6056612.00	621600.00	648.00	35.05
<sup>-</sup> T81R103	6056552.00	621250.00	652.50	21.60
T81R104	6054098.67	621352.98	767.52	152.40
T81R105	6052692.25	621675.84	860.33	176.00
T81R106	6052050.00	621800.00	852.00	62.48
T81R107	6054080.06	619774.42	760.60	198.00
T81R-108	6052175.00	618040.00	842.00	169.80
T81R109	6053855.00	619380.00	778.00	30.48
T81R110	6058374.00	617692.00	763.00	61.60
T81R111	6057981.03	616496.76	787.36	182.90
T82D201	6054644.96	620815.84	717.47	245.67
T82D202	6054191.98	621050.24	758.20	300.80
T82D204	6054110.73	622244.34	763.10	400.50
T82D208	6053664.79	620971.55	785.80	319.00
T82D210	6054463.20	620036.61	729.50	258.17
T82D213	6059650.04	617 <b>1</b> 49.22	907.30	169.80
T82D214	6059806.12	618179.73	866.50	303.30
T82D215	6061645.00	615505.00	903.00	209.40
T82D216	6059476.90	618656.75	786.30	137.50
T82D217	6059048.79	618467.99	766.90	84.40
T82D218	6059835.33	618791.87	799.60	102.70
T82D219	6054106.28	621616.72	<sup>-</sup> 760.70	349.80
T82D220	6053785.75	621378.68	785.50	325.50
T82D221	6054402.98	620680.55	723.20	273.40
T82D222	6054189.20	621049.60	758.30	76.20
T82D223	6053833.24	621047.29	777.90	· 233.70
T82D224	6054055.67	620653.00	732.60	249.00
T82D225	6053453.50	621252.28	794.00	282.50
T82D226	6054287.25	619764.13	762.10	215.50

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(to the end of drilling, 1994)

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	HOLE #	NORTHING	EASTING	ELEVATION	TOTAL DEPTH
				(m asl)	(m)
				· · · ·	
	T82D227	6053452.16	621386.73	797.30	255.00
	T82D228	6054243.75	619938.48	750.60	200.30
	T82D229	6053457.43	621896.66	806.70	290.00
	T82D230	6053895.00	619790.00	764.00	142.30
	· T82D231	6054313.42	619511.67	762.20	331.00
	T82D232	6053798.85	621777.74	779.10	358.50
,	T82D233	6054270.42	619255.17	770.20	130.00
	T82D234	6054453 39	619710.37	751 20	209.40
	T82D235	6053794 11	622069 14	782 90	270.30
	T82D236	6054777 58	619821 53	733 10	178.90
	T82D237	6054858 19	619986.87	730.10	151.00
•	T82D238	6053803 16	621608.64	792.60	101.00
	T02D230	00000000000000000000000000000000000000	620020.04	-705.00	191.00
	1020239	0000000002	620020.20	720.00	109.40
	1020240	0000400.00	620033.61	711.20	00.00
	182D241 T02D240	0000104.82	621253.79	816.60	115.00
	182D242	0050010.50	619768.95	/32.50	133.00
	182D243	6053109,17	621396.46	828.50	148.50
	1820244	6052607.78	621533.20	838.80	151.40
	182D245	6053094.32	621649.97	859.10	227.00
	182D246	6052344.83	621653.55	840.30	163.67
	T82D247	6053110.32	621870.18	860.20	258.60
	T82D248	6052041.16	621840.70	852.20	282.50
	T82D249	6053128.79	622109.17	867.50	264.30
	T82D250	6052083.16	622070,54	867.80	172.50
	T82D251	6052867.54	621583.54	871.90	355.70
	T82D252	6052072.79	622346.72	887.00	373.98
	T82D253	6052593.21	622276.53	903.30	361.40
	T82D254	6053837.00	622466.50	785.30	249.00
	T82D255	6053462.10	621656.66	802.30	200.00
	T82D256	6052584.50	622016.71	890.30	291.60
	T82D257	6054640.00	621141.42	728.50	78.30 .
	. T82D258	6054415.00	621393.10	744.08	121.90
	T82D259	6054413.16	621075.47	747.10	87.17
	T82D260	6055019.04	621019.53	696.50	153.31
	T82D261	6054451.29	619536.20	755.40	221.58
	T82D262	6055043.21	620789.04	689.90	139.29
	T82D263	6055520.00	620745.00	680.00	61.00
	T82D264	6055487.00	621256 86	688.90	200.00
	T82D265	6054627 29	619688.00	737 30	279 10
	T82D266	6055282.00	620670.00	688.00	96.14
	T82D260	6054091 28	619565 22	762.25	250.00
	T82D268	605/306 83	621643 42	745.20	200.00
	T82D200	6052240.00	620775.00	814.00	96.00
	T02D203	0052240.00	620525.00	014.00	90.00
		0002010.00	020020.00	004.00	120.70
	1020273	0004/01.04	021001.13	721.60	222.00
	1820272	0000142.00	021033.00	707.50	121.92

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		HOLE #	NORTHING	EASTING	ELEVATION	TOTAL DEPTH
)					(m asl)	(m)
		TOODOOO	00.47000.00	000075 00		004.00
		182R203	6047868.00	620675.00	921.00	231.00
		182R205	6048358.00	· 620667.00	955.00	208.00
		182R206	6048779.00	620279.00	979.00	236.00
		T82R207	6049330.00	620137.00	962.00	207.50
		T82R209	6053886.04	619618.16	765.20	150.00
	- •	T82R211	6062132.00	615560.00	991.00	147.00
		T82R212	6061020.00	615370.00	907.00	264.00
		T83D301	6054146.91	620956.24	756.90	72.23
		T83D302	6054151.04	620895.38	753.40	47.85
		T83D303	6054151.61	620835.13	749.80	50.90
		T83D304	6054148.99	620924.04	754.90	60.05
	,	T83D305	6054153.50	620775.99	744.00	57.00
		T83D306	6054143.56	621111.70	760.10	87.48
	-	T83D307	6054130.70	621230.95	763.40	111.56
		T83D308	6054128.22	621353.72	762.00	93.57
	•	T83D309	6054146.39	621015.91	759.90	69.19
		T83D310	6054136.31	·621170.29	762.10	90.52
		T83D311	6054137.65	621140.29	760,70	20.42
		T83D312	- 6053953.25	620924.49	764.90	59.44
		T83D313	6054260.08	620909.65	750.60	66.14 ·
		T83D314	6054636.91	621010.90	723.90	60.00
		T83D315	6054505.98	621254.00	735.00	81.38
)		T83D316	6054904.29	621086.78	712.80	84.43
		T83D317	6054895.25	621290.25	713.70	108.81
		T83D318	6055279 67	621015 92	684.60	114.91
	• •	T83D319	6053932.07	621256 17	772 40	75.29
		T83D320	6053967.33	621517 13	772.40	148 44
		T83D321	6053622.96	621505 13	. 790 10	124.06
		T83D322	6053065 56	621660.08	768.80	178.00
		T83D323	6053064 75	621003.30	760.00	144.20
	٠	T83D323	6053643.23	621221 02	799.50	60.05
		T82D325	6053200 46	621242.00	202.30	66 14
		1030323	6053239.10 6053440 50	021242.30	702.00	00.14
		1030320	60533440.00	021075.20	792.80	84.43
		1030327	6053289.00	021075.12	794.10	100.90
		183D328	6052893.00	621385.20	832.60	87.40
		T83D329	6052611.75	621778.23	863.50	193.85
		183D330	6052878.71	622027.34	895.60	175.87
		183D331	6052334.66	621888.74	858.30	185.01
		T83D332	6053452.43	622160.66	816.50	164.59
		T83D333	6053269.95	621759.41	824.50	184.00
		T83D334	6053612.21	621772.34	790.60	107.00
		T83D335	6053280.35	621502.15	810.60	127.00
		T83D336	6054614.08	621381.66	727.70	111.00
-		T83D337	6054499.75	621528.87	733.30	107.00
		T83D338	6054420.45	621894.21	742.30	215.00
		T83D339	6054764.62	621806.99	720.60	114.90
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	:# N	ORTHING	EASTING	ELEVA	TION ISI)	TOTAL DEPTH (m)
T83D3	40 60	54269.91	621808.3	8 753.	20	187.40
T83D3	41 60	)54283.10	621517.6	6 754.	50	167,70
T83D3	42 60	)54267.66	621268.2	8 757.	50	130.40
T83D3	43 60	055301.79	621342.2	7 698.	50	172.80
T83D3		055431.58	621624.4	9 694.	30	148.30
T83D3	45 . 60	053978.86	619639.0	5 763.	50	134.10
T83D3	46 60	)54201.69	619416.1	6 766.	80	126.40
T83D3	47 60	)54197.87	619647.6	3 760.	10	104.50
T83D3	48 60	)54622.79	619913.9	3 731.	10	132.80
T83D3	49 <sup>.</sup> 60	054660.33	620148.3	8 717.	40	129.20
T83D3	50 60	)54789.78	620931.4	9 715.	10	62.50
T83D3	51 60	54756.21	621259.1	8 721.4	40	111.90
T83D3	52 60	54110.00	621890.0	0 762	00	148.40
T83D3	53 60	54836.00	621108.0	0 720.3	30	142.30
T83D3	54 60	55913.37	622890.4	1 660.	90	162.80
T83D3	55 60	55411.37	622898.2	8 685.	70	110.00
T83D3	56 60	55887.17	622453 74	4 670	40	127.00
T83D3	57 60	55647.72	621641.5	3 686 i	80	112 70
T83D3	58 60	55463.06	622403 5	3 684	80	108 50
T83D3	59 60	55394 79	621855.8	5 694.	20 40	136.80
T83D3	60 60 60 60	54759 74	622190.14	4 722 :	-70 30	165.00
T83D3	61 60	55643 62	621882 9	7 684	50 50	154 50
T83D3	62 60	54459 18	622094 53	3 740 4	an	189.00
T83D3(	63 60	155138 03	621886.44	5 704	00	150.50
T83D3(	60 60 64 60	55145 15	622617 9	2 602	50 50	107.00
	65 60	54359 96	622305 40	a 7497	40	163.80
T83D3	00 00 00 88	55641 91	622135.4	1 686 (		151.40
T83D3	67 60	54422 69	622863.6	3 752 1	80	116.90
	00 00 68 60	55308 25	622000.00	3 690 1	00	120.40
T83D3	00 00 19 60	55003 17	621002.38	3 675 <i>1</i>	20	108.80
T84D4	00 00 01 60	56405 64	6221302.00	2 6/8/	20 61	- 114 00
T84D4	02 60	53062 32	622004.84	5 771	30	163.68
104D4	02 00	53811 00	621002.1/	4 770	20	163.00
104D40 T84D40	03 00	56202.22	621902.14	+ 779.	20 20	107.00
	04 00	52620 65	621043.43	9 049.0 9 704 °	20	30.02
T94D40		55011.00	621093.40		50 60	230.33
104D40 T94D40	00 00 07 60	52644 20	621034.03		50	04.12
	na ec	55026 22	6221000.00	7 672	10	200.20
T94D40	00 00	52115 11	624782.47	073. D 9070	10	114.90
	10 60	66464 04	620147 7		90 50	130.20
104D4 T84D4	10 00	50154.04	624197.1		20 20	04.40
10404	11 00	56422 22	621020.00	000.0	20	74.00
104D4 TRADA	12 00	54402.33	621920.08		30	50.90
10404	13 00	56402.10	020900.38		30	105.70
10404	14 00 15 00	50137.00	621650.51	000.2	20	102.70
184D4 TRADA	15 50	54501.91	620937.55		50	72.00
8404	16 60	56136.65	621425.92	2 654.4	70	84.12

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HOLE #	NORTHING	EASTING	ELEVATION (m asl)	TOTAL DEPTH (m)
T84D417	6054507 39	621104.86	739 80	90 53
T84D417	6054234 53	621082 41	756.80	117.06
T84D410	6056320 37	621985 85	654.44	00.00
104D419 T04D420	6054299.04	621252.00	749.40	90.00
T04D420	0004000.91	021203.99 600405 55	740.40	06.60
1040421	6054620.27	022420.00	776.00	90.02
T04D422	6056694 92	622447.25	640.40	420.00
104D423	6054759.06	022447.20	718 00	139.29
1040424	0004700.00	020990.20	716.20	170.90
1040420	6052044.05	022109.77	756.60	. 70.00
1040420	00000044.90 6056456 70	020003.01	100.00	53.90
1040427	0000400.72	022070.07	705.40	41.10
1,04D420	0004000.71	021307.34 601005.49	130.40	100.00
T04D429	0000000.32	02 1920, 10	037.70	122.00
T04D430	6055269 45	021029.00	720.10	105.20
T94D431	6054612.64	621667.50	702.70	127.10
T04D432	0004010.04 6064607.54	621007.09	727.40	127.10
104D433 T94D433	0004027.04	621691.29	. 121.10	102.11
T94D434	605466.91	621046.00	717 00	91.00
T94D433	6055271.00	621199.01	604.80	102 70
T94D430	6054207 70	621609.65	715 50	02.70
104D437 T04D430	6055041 72	621090.00	7 15.50	90.20
T04D430	6050041.73	621236.03	700.20	140. IU 50. 20
T94D439	6050627.40	622200.00	299.00	145.00
104D440 T94D444	6050500 97	619201 79	091.30	145.00
1040441	0059599.07	616291.78	039.40	224.70
1040442	6050544.04	610019.92	830.10	139.30
1040443	60509544.04	010000.29	770.20	111.00
	0009004.20	019102.10	700.00	123.70
T00D001	6050426 44	017401.00	090.00	09.00
	0009430.41	01/000.24	725 70	148.20
1000000	6059065.37	618780.93	730.70	08.00
1650504	0009090.28	018044.04	804.60	74.97
1860601	6059815.07	616957.02	923.21	71.49
1860602	6050280.32	617799.35	848.44 · 770.00	110.95
1000003	0009204.02	010020.00	772.20	60.00
1860604	6059944.15	618747.17	812.64	84.43
1880801	6059396.90	617185.42	888.77	84.73
188D802/	6060252.33	616192.71	930.22	93.40
188D803	6060341.25	616736.50	973.92	131.10
188D804	6060041.04	616816.03	939.70	76.80
1880805	6059912.69	61/304.45	933.83	77.20
188D806	6060713.87	615390.61	899.16	59.00
T88D807	6062397.66	615629.27	889.94	118.80
T88D808	6062571.18	614525.46	895.82	60.96
T88D809	6060976.58	616215.89	976.28	112.78

HOLE #	NORTHING	EASTING	ELEVATION (m asl)	TOTAL DEPTH (m)	
T88D811	6060212 91	617102 90	995.31	213.00	
T88D812	6060396 82	616582 71	975 14	118.87	
T88D813	6060684 82	616346.01	983.04	137 16	
T88D814	6059756.62	617604 43	910 13	110.00	
T89D907	6059490.95	618700 53	782 52	62.81	
T89D920	6060104.79	617060.66	966.95	48.70	
T89D921	6060090.04	617202.99	976.29	113.00	
T89D922	6059966.20	617001.64	938.33	67.00	
T89D923	6059701.20	617353.04	908.30	64.00	
T89D924	6059745.62	617505.77	911.77	66.10	
T89D925	6059807.78	617760.40	906.30	180.00	
T89D926	6060118.50	618536.21	876.30	21.90	
T89D927	6059180.29	618699.78	752.58	62.20	
T89D928	6059599.62	618749.15	786.80	79.00	
T89D929	6059656.49	618587.09	808.88	57.00	
T89D930	6060005.37	618698.28	832.68	76.00	
T89D931	6059836.07	618879.16	789.93	97.00	•
T89R901	6059332.54	618991.67	740.80	100.00	
T89R902	6059313.15	618804.77	758.53	81.00	
T89R903	6059679.29	619097.90	749.66	99.00	
T89R904	6060005.24	618795.73	819.30	98.00	
T89R905	6059708.99	618667.41	803.15	71.00	
T89R906	6059829.11	618739.39	805.85	79.00	
T89R908	6059854.86	617492.63	926.59	102.50	
T89R909	6060324.71	616912.10	985.46	75.00	
T89R910	6060227.50	617023.24	989.09	94.00	
T89R911	6060259.36	616606.42	956.64	94.00	
T89R912	6060160.75	616737.60	954.00	94.00	
189R913	6059793.07	617185.89	922.86	63.50	
189R914	6059966.07	618250.86	873.12	78.00	
189R915	6059417.58	618116.67	838.26	99.50	
1898916	6059740.06	621143.27	589.81	28.00	
189K917	6060483.30	621041.50	576.30	72.60	
109K910 T20D010	6050250 10	620320 40	090.20 628.00	63.3U 95.00	
T02101	6061023 33	616413 43	1008.88	143.20	
T92D01	6060495.96	616384 31	070.88	145.20	
T92D02	6061042.90	616101 85	970.00	152.40	
T92D03	6060815 89	616230.92	971 94	192.40	
T92D05	6060309 12	617084 51	1006.39	134 10	
T92D07	6059989.67	617819 25	936.36	234 70	
T92D09	6060042.33	617297.91	969.43	131.10	
T92D12	6060315.44	619119.91	826.22	176.83	
T92D20	6059692.44	618834.80	783.52	84.50	
T92D22	6059980.87	618905.78	799.69	104.61	
T92D24	6061109.98	616313.11	993.85	113.80	

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				(m asl)	(m)
	T92D26	6061188.15	616476.90	1023.20	152.40
	T92D31	6061246.96	616323.35	999.00	121.95
	T92D32	6061197.79	616023.92	958.90	146.30
	T92D34	6061348.79	615882.90	945.60	121.90
	T92D36	6061518.34	616090.86	975.10	70.10
	T92D37	6061570.94	616309.26	993.80	76.80
	T92D38	6061240.71	615395.99	903.80	42.70
	T92D41	6060077.12	616619.90	936.10	53.90
	T92R06	6060815.25	616470.62	· 1012.95	152.40
	T92R08	6060521.82	616633.30	1003.02	134.10
	T92R10	6060317.15	616453.88	952.94	97.50
	T92R11	6060218.83	616850.00	971.34	121.90
	T92R13	6059946.29	616943.42	933.98	76.20
	T92R14	6059936.08	617163.15	937.87	73.10
	T92R15	6059796.04	617093.67	924.22	85.30
	T92R16	6059786.08	617410.50	921.29	85.30
	T92R17	6059906.16	617644.78	931.25	127.70
	T92R18	6059633.81	617356.65	904.74	48.80
	T92R19C	6059515.16	617647.29	885.33	67.10
	T92R21	6059604.58	617810.40	882.39	134.10
	T92R23	6059346.79	617961.49	843.19	164.60
	T92R25	6059391.60	617741.39	866.18	79.20
	T92R27	6059524.25	618544.12	803.30	48.90
	T92R28	6059368.25	618748.78	768.40	60.90
	T92R29	6059962.82	618559.11	837.50	48.80
	T92R30C	6059032.23	617811.42	812.89	84.20
	T92R33	6059014.25	617644.91	824.10	97.50
	T92R35	6058956.08	617440.97	830.78	152.40
	T92R-39C	6051476.37	616972.88	919.18 ·	62.50
	T92R-40C	6051993.42	617016.10	872.07	67.40
	T92R-42	6051448.41	616775.28	921.64	28.10
	T92R-43	6050522.57	617780.50	969.26	85.30
	T93D22	6058866.69	618123.11	778.36	207.30
	T93D23	6058597.12	617543.14	792.58	149.40
	T93D24	6060475.62	616963.25	1041.43	45.70
	T93D27	6058538.86	618127.73	754.60	115.81
	T93D31	6058717.61	618212.38	762.55	182.90
	T93D38	6058844.12	618374.35	760.86	137.20
	T93D44	6059873.66	617400.95	931.52	121.90
	T93D-45	6052434.40	617524.48	831.73	142.80
	T93D-47	6049932.96	619075.42	949.30	178.90
	193D50	6053073.75	617471.56	807.53	87.80
	T93D-53	6050529.20	618159.20	940.10	91.40
	T93R01C	6053955.91	621094.01	772.33	34.40
•	T93R-02	6050443.62	617325.21	1003.53	. 80.60
	193R-03	6050534.40	618287.70	934.10	100.80

HOLE #	NORTHING	EASTING	ELEVATION (m asl)	TOTAL DEPTH
T93R-04	6049982 73	616727 40	1045 17	89.00
T93R-05	6050894.07	617556 22	962 10	92.40
T93R-06C	6050901.95	617172 91	983.68	55.80
T93R-07C	6051011.07	618156 25	917 71	128.90
T93R-08C	6050222.95	616865.75	1026.60	43.00
T93R-09	6051430.86	617629.87	920.47	171.30
T93R-10	6050006.75	617174.71	1050.78	61.00
T93R-11C	6050004.87	618162.75	1010.25	73.30
T93R-12	6051537.53	618162.66	888.14	128.90
T93R-13	6051271.70	618552.91	888.92	140.80
T93R-14	6049970.54	617700.47	1047.26	110.00
T93R-15	6052496.28	616994.31	834.89	42.67
T93R-16	6052299.33	616769.74	854.68	36.58
T93R-17	6051978.99	617550.52	845.12	128.90
T93R-18	6051994.30	618082.70	846.74	183.80
T93R-19	6050577.42	618817.50	916.34	122.00
T93R20	6053381.16	618004.49	811.05	46.33
T93R21	6059118.12	617949.25	815.79	140.80
T93R25	6059049.62	618071.13	796.46	185.90
T93R26	6058769.48	617831.30	791.75	86.00
T93R28	6058922.25	617974.41	790.32	146.90
T93R28P	6058925.53	617989.10	789.74	71.90
T93R29	6058970.71	617172.80	849.69	134.10
T93R30	6059571.75	616781.37	902,16	134.10
T93R32	6059863.04	617589.84	925.66	110.60
T93R33	6059990.29	616420.40	914.24	152.40
T93R34	6060640.99	620091.01	680.97	165.30
T93R35	6058675.82	617994.53	772.29	110.00
T93R36	6059991.73	620359.90	604.19	138.00
T93R37	6059654.83	619619.85	681.26	137.77
T93R39	6059644.24	620519.48	607.74	110.30
T93R40C	6053831.90	621177.12	778.64	65.60
T93R41C	6053011.60	621521.10	859.65	141.58
T93R42C	6053284.22	621336.90	806.94	75.30
T93R43C	6053613.29	621091.74	787.19	41.00
T93R46	6059531.28	620868.03	593.80	41.10
T93R48	6058991.95	619233.14	673.17	137.00
T93R-49	6049371.32	619464.04	977.17	111.30
T93R-51	6051420.46	616724.64	922.70	71.30
T93R52	6053622.09	616512.54	806.40	41.30
T94R-01	6050496.76	616858.82	1005.34	83.78
T94R-02	6049741.95	.618353.71	1063.10	36.95
T94R-03	6050180.64	617850.28	994.51	84.79
T94R-04C	6051583.55	617412.23	897.86	74.66
T94R-05	6051253.57	617502.04	937.28	121.61
T94R-06	6051579.95	617843.02	898,55	162.76

	NORTHING		ELEVATION (m asl)	TOTAL DEPTI
T94R-07	6051218.76	617933.28	916.61	120.87
T94R-08	6051908.88	617861.54	851.50	144.50
T94R-09	6051723.45	. 615955.02	889.39	145.89
T94R-10C	6052176.94	617539.23	837.55	89.60
T94R-11	6052223.60	616201.74	873.05	72.60
T94R-12	6052187.01	617237.34	846.22	94.80
T94R-13	6050937.15	616086.32	936.68	41.89
T94R14	6056457.45	617636.85	721.25	155.49
T94R15	6054505.31	616225.71	757.19	33.50
T94R16	6055170.98	615867.00	764.15	110.00
T94R17	6052118.33	615144.12	911.50	80.60
T94R18	6053559.61	615717.12	823.20	112.80
T94R19	6052664.70	614812.99	918.34	61.80
T94R20	6053874.08	614655.79	842.98	115.62
T94R21	6052686.15	612575.92	894.41	80.00
T94R22	6053414.96	613222.78	872.64	60.98
T94R23	6058948.36	615699.33	851.91	157.13
T94R24C	6058481.19	615931.01	819.88	121.45
T94R25	6059225.99	615205.01	866.04	102.76
T94R26	6059788.19	614814.88	862.91	82.68
T94R27	6059560.47	615601.09	877.29	150.54
T94R28	6060120.79	615804.98	897.46	133.67
T94R29C	6058709.39	616396.22	832.07	152.90
T94R30	6058726.50	615182.45	841.92	61.00
T94R31	6058721.40	616988.75	824.17	201.40
T94R32	6059274.85	616799.42	880.85	136.40
T94R33C	6059866.95	618722.79	808.94	76.80
T94R34C	6059719.70	616394.70	901.22	155.74
T94R35C	6058820.77	618709.86	736.37	115.18
T94R36	6058238.39	616674,78	792.61	194.56
T94R37	6057889.78	615293.51	809.09	88.41
T94R38	6057762.73	616218.81	785.67	177.40
T94R39	6059408.82	616352.86	885.22	134.15
T94R40	6058068.18	615787.31	807.52	99.00
T94R41	6058291.23	616205.04	805.48	146.19
T94R42	6058689.73	615831.17	834.51	132.53
T94R43	6060016.00	619231.42	760.16	97.50
T94R44	6058919.70	616202.39	850.82	145.73
T94R45	6058498.64	616545.61	812.07	156.83
T94R46C	6057641.98	616690.45	767.47	202.54
T94R47	6053021.05	612275.31	878.10	43.30
T94R48	6052386.17	613784.03	975.11	79.22
T94R49	6051401.70	614723.03	977.24	72 79
T94R50	6051150.49	613638.38	1028 40	66 27
T94R51	6052976.86	613932.51	918.50	72 22
T94R52	6052019 32	612719 72	955.29	78.66

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HOLE #	NORTHING	EASTING	ELEVATION (m asl)	TOTAL DEPTH (m)
T94R53	6055715.55	617427.70	736.87	144.80
T94R54	6054034.73	613697.48	856.76	95.00
T94R55	6054928.69	615225.18	785.47	79.20
T94R56	6055647.50	616742.48	741.85	156.00
OTC9401	6057422.85	616994.47	620.26	0.50

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HOLE# SITE#	T93R-01C 214		
PROJECT	Telkwa	CONTRACTOR	McAuley Dritting
DATE	Sept, 3/93	DRILLER	Don & Terry
GEOLOGIST	Angelo	CASING	DFD
		LOGGER	Al Bretton
COMMENTS:	Seams #3 & 2		

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> BCA CORE STATE INTERVAL THK FROM DESCRIPTION SED STRUCT, NOTES BOX MARK ΤÖ SAMPLE # ROCK TYPE 20.02 20.27 0.63 19.39 Coal Loss 0.25 20.02 Coal Black Started run #1 @ 19.5m - 19.8m - sl. dirty Run #1 1 Broken Coal loss @ base Flugged w/in shoe Run #2 Run #2 20.27 20.43 Black 0,16 1 Coal Broken Sitstn Dk. grey, massive -Run #3 27.28 - 28.19 - clean 0.95m measured. Run #3 Blocky 0,32 27.22 27.54 3 Coal Black Pyrite @ top 2 2 0.08 27.54 27.62 Coal Loss 27.62 Run #3 V. broken 0,63 28.25 Coal Black Clean 0.08 28.25 28.33 4 4 5 Coal Loss 28.33 29.31 Run #4 Run #4 Run #4 0.98 Blocky 29.31 Coal Black Run #4 28.19 - 29.87 - Clean Broken 29.67 Black Clean 75 Broken 0.29 29.67 29,96 6 Carby sitstn Dk. green SSD Floor. Abrupt contact w. coal . - -.

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Page 1

CONTRACTOR

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McAuley Drilling

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HOLE #

SITE #

PROJECT

T93R-06C

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T93R-06C

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DATE	• •	. Sept. 11/93					DRILLER	Don & Terry		
CORE TYPE							LOGGING CO.	BPB		
GEOLOGIST	•	Angelo					CASING	20'		
							LOGGER	Bob		
COMMENTS:		Seams #3 & 2								
BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
Run #1					1	1		1	, , , , , , , , , , , , , , , , , , , ,	Run #1 - recovery 2.68m
1		Blocky					Dirty coal	Black		Very dirty stringer - no sample
		Blocky -					Slity mdstn	Gry, massive		Some small pyrite zones - fractured
		Blocky					Carby mdstn	Bk, massive		Carby
1		Blocky					Sitstn	Gry, lam		Bedding angle 95
Run #2		Blocky			· ·					Run #2 recovery 1,12m
1		Blocky	8.58		8.58	1	Sitstn	Gry, lam		Roof
		Blocky	0.21	8.58	8,79	2	Dirty coal	Bik		More dirty at bottom
		Blocky		8.79		3	Mdstn	Blk, massive		Floor, some carby stringers
		· · ·	0.10	9.58	9.68		Rock Loss			
Run #3		Blocky								Run #3, recovery 2.75m
		Blocky	10,28	· ·	10,28	4·	Mdstn	Blk, lam		Roof, .20m taken
		Blocky	0.44	10.28	10.72	5	Coal	Bik	ļ	
		Blocky	0.46	10.72	11.18	6	Coal	Bik		Some crumbly and fracture zones
		Blocky	0.58	11.18	11.76	. 7	Coal	Bik		Dirty near bottom of sample
		Blocky	0.12	11.76	11.88	8	Dirty Coal	Bik		Very dirty
		Blocky	l.	1.1.88		9	Carby mdstn	Bik		Floor, carby zones
Run #4		Blocky	.							Run #4, recovery 1.82m
		Blocky					Sity mdstn	Gry, massive		No sample
		Blocky					Silty mdstn	Gry, massive		Fe concreations - no samples
Run #5		Blocky								Run #5, recovery 2.95m
		Blocky					Sitstn	Gry, massive		No sample
-		Blocky		•			Sitstn	Gry, lam		Some fractured zones no sample
		Blocky					Sitstn	Gry, lam		No sample
Run #6		Blocky		•			· ·			Run #6, Recovery 3.40
		Blocky					Dirty sitstn	Gry, thin lam	l'	Some pyrite zones
		Blocky				1	Carby mdstn	Blk, massive		Pyrite heavy
		Blocky	0.28	18.55	18,83	10	Coal	Bik		Slightly dirty on top sample
		Blocky					Mdstn	Bik, massive		Some carby zones
Run #7			· .			1				Run #7, recovery 2.82
		Blocky ·			21.01	11	Sitstn	Bik		Clear break with coal (roof)
		Blocky	0.16	21.01	21.17	12	Coal	Bik		Clean '
		Blocky	0.01	21.17	21.18	12	Coal, slightly dirt	Bik		Slightly dirty
		Blocky	0.19	21.18	21.37	12	Coal	Bik		Clean
		Blocky	. 0.01	21.37	21.38	12	Mdstn	Bik		Pyrite bands within
		Blocky	0.11 .	21.38	21.49	12	Coal	Bik		Slightly dirty at top
		Crumbly	0.03	21.49	21,52	12	Dirty Mdstn	Bik		Coaly, heavy pyrite
			0.02	21.52	21.54	1	Coal Loss			
		Blocky	0.11	21.54	21.65	13	Clean Coal	Bik	,	Dirty to base
		Blocky	0.01	21.65	21.66	13	Coal	Bik		Pyrite bands
		Blocky	0,65	21.66	22.31	13	Coal	Bik .		Clean '

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
		Blocky	0.01	22.31	22.32	14	Coal	Bik		Pyrite bands
1 .		Blocky	0.56	22,32	22.88	14	Coal	Bik		Clean
•		Blocky	0.09	22.88	22.97	15	Mudstn	Bik		Heavy pyrite banding
		Blocky	0.30	22.97	23.27	15	Carby mudstn	Bik		Very coaly
Run #8		Blocky	0.03	23.27	23,30	15				Recovery Run #8
		Blocky					Carby mudstn	Bik		Very coaly
		Blocky					Bent mudstn	Gry		Bentonite
		Blocky					Dirty coal	Blk		Dirty coal
		Blocky	23,90		23.90	16	Mudstn	Blk, massive	·	Roof of 1 steam
		Blocky	0.11	23.90	24.01	17	Dirty coal	BIK		Very dirty (mdstn partings)
		Blocky	0.17	24.01	24.18	17	Coal	Bik		Clean
		Blocky	0.01	24.18	24,19	17	Carby mdstn	Blk		Carby mdstn
		Blocky	0.58	24.19	24.77	18	Coal	Blk		Clean
Run #9		Blocky	,	•				Blk		Recovered 2.98 run #9
		Blocky	0.56	24.77	25.33	19	Clean coal	Bik	• *	Some pyrite
		Blocky	0.01	25.33	25.34	19	Mdstn	Blk		
		Blocky	0.53	25.34	25.87	19	Coal	Blk		Slightly dirty @ base
		Blocky	0.03	25.87	25,90	20	Mdstn	Blk		
		Blocky	0.06 .	25.90	25.96	20	Dirty coal	Bik		Very dirty
		Blocky	0.41	25,96	26.37	20	Coal	Blk	•	Some dirty bands
		Blocky	0.01	26.37	26.38	20	Mudstn	Brown		Volcanic ash bands
		Blocky	0.30	26.38	26.68	21	Coal	Bik		Clean
Run #10		Blocky	0.00							Recovery 2.42
		Blocky	0.39	26.68	27.07	21	Coal	Bik		Slightly dirty @ base
		Blocky	0.36	27.07	27.43	· 22	Coaly mdstn	Bik		Pyrite zones (plebs)
	-	•		27.43	27.44		Coal Loss			
	Ì	Blocky	0.49	27.44	27.93	23	Coal	Bik		Dirty near base
		Blocky	0.08	27.93	28.01	24	Carby mdstn	8lk		Coaly @ top
	· ·	Very broken	0.04	28.01	28.05	24	Bent. mdstn	Blk		,
		•		28.05	28.06		Rock Loss			
		Blocky	0.13	28.06	28.19	24	Dirty coal	Blk		Very dirty .
		Blocky	0.17	28.19	28.36	24	Mdstn	Blk		Floor
		Blocky	0,04	28.36	28.40	25	Dirty coal	Blk		Very dirty
			0,63	28.40	29.03	25	Mdstn	Blk		Pyrite blebs
Run #11										Recovery 2.75 - Run #11
			0.04	29.03	29.07	25	Mdstn			Very hard
			0,14	29.07	29.21	26	Dirty coal			
			0.26	29.21	29.47	26	Coal	.		Clean
				29.47		27	Sitstn			Floor
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T93R-07C

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HOLE# T93R-07C SITE # McAuley Drilling Don & Terry BPB PROJECT Telkwa CONTRACTOR Sept. 12/93 DATE DRILLER LOGGING CO. CORE TYPE Angelo CASING GEOLOGIST LOGGER .

#### COMMENTS:

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE#	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
Run #1	T ·	Broken					Sitstn	Vthin		Run #1 - 272-281' rec. 2.80m
										Rare v. thin fgr.ss lens
		Broken			83,87	1	SS	Silty fg.		Intbd fgr, ss/sitstn 55/45. Roof to "C".
										Thin bivalve horizon @ top (n 5 cm wider w.
										bivalves (oysters) up to 5 cm wide.
		- Broken	0,70	83,87	84,57	2	Coal	Black		Clean, sl. dirty @ top
		Blocky	0.01	84.57	84.58	3 '	Coal	Black	}	Muddy parting
]		Blocky	0.27	84.58	84.85	3.	Coal	Black		Clean
		Broken	•	84.85		4	Mdstn	Br., massive		
							Sitstn	Dk. grey, vthin		Some intbd vf.gr. ss beds
	I .									@ 88.3m bivalve depth horizon up to 1.5cm
•	· ·									bivalves í
							Sitstn			Occ. víg ss lens, massive
							Carby mdstn			Pyrite bands throughout
			0.40	92.35	92.75	5	Coal			Si. dirty @ top V. clean @ base
							Mudstn			Pyrite
							Sitstn	Med. grey, vthin		Intbd vfg ss/sitstn (35/65)
		Blocky					Sity mdstn	Med. grey, vthin		Some massive zones v. dense
Run #2					99,90	6	Mdstn	Bik, vthin, mass.	Roof	Carby near bottom. Rec. 2.82
			0.24	99.90	100.14	7	Dirty coal	Black		Mdstn partings
			1,03	100,14	101,17	8	Coal	Black		Clean coal, dirty zone near bottom
	1		0.31	101.17	101.48	9	Coal	Black		V. clean
			0.03	101.48	101.51	_	Coal Loss			
Run #3		Blocky	0.26	101.51	101.77	9	Coal	Black		Clean
			0.23	101.77	102.00	10	Coal	Black		Bentonite mud @ base - 5 cm zone
		Blocky	0,94	102,00	102,94		Coal	Black		Clean coal very hard
		Crushed	0,38	102.94	103.32	12	Diny Coal	Black		very crumbly zone
		Blocky	0.43	103.32	103.75	13	Coal	Black		Clean
Run #4		Blocky	1.07	103.75	104.82	14	Coal	Black		Clean mostn parting @ 14.33. Rec. 2.44
		Crushed	0,57	104.82	105,39	15	District and	Black		Crusned @ top
		Вюску	0,23	105,39	105,62	16	Diny coal	Black		Puroclastic parting 3 cms
		Вюску	0.57	105.62	106.19	17	Coal	Black		Clean - dirty @ top of sample
Run #5		Blocky	0,23	106,19	106.42	18	Coal	Black		Becoming muddy @ base
		Вюску	0,05	106.42	106.47	18	Diny coal	Black		very muddy
	1	Вюску	`	106,47		19	Carby mostri	Biack		Hoor - masin 1.91m rec.
1		Blocky						Grey .	1	- turning sity @ base
Run #6	1	Blocky					Silsin	Grey		Same as above
Run #7	1	Blocky .	110.44		110.44	20	Isity mostn	Grey		Root - 2.14m rec.
		Blocky	0.08	110.44	110.52	20	Coaly mastn	Black		very coaly 50/50
1	1	Blocky	Į 0.30	110.52	110.82	Į 21	icoal	Black	1	Mdstn @ top

T93R-07C

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	то	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
		Blocky	0.23	110.82	111.05	22	Mudstn	Black		Ash layer (pyroclastic)
		Blocky	0,27	111.05	111.32	23	Dirty coal	Black		Very dirty coal
		Blocky	0.98	111.32	112.30	24	Coal	Black		Clean .
Run #8		Blocky		111.30		25	mdstn	Black		Turning silty @ bottom - floor
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HOLE# SITE#	T93R-08C					•
PROJECT DATE CORE TYPE	Telkwa Sept. 12/93	·	CONTRACTOR DRILLER LOGGING CO.	McAuley Drilling Don & Terry BPB		
COMMENTS:	Angelo		LOGGER	,		

BOX WARK	BCA	CORESTATE		FROM	10	SAMPLE#	ROCK TYPE	DESCRIPTION	ISED STRUCT.	NOTES
Run #1		Broken		1		1	Sitstn.	Vthin		Run #1 - 272-281' rec. 2.80m
				1		l				Rare v. thin fgr.ss lens
		Broken			3.13	1	55	Silty fg.		Intbd fgr. ss/sitstn 55/45. Roof to "C".
	i i				ŀ					Thin blvalve horizon @ top (n 5 cm wider w.
										bivalves (oysters) up to 5 cm wide.
		Broken	0.23	3.13	3.36	2	Coal	Black		Clean, sl. dirty @ top
		Blocky		3,36		3	Coal	Black		Muddy parting
		Blocky	0.59		3.95	3 .	Coal	Black		Clean
		1	0.23	3.95	4.18	4	Coal Loss	,• .		
		Broken	0.45	4.18	4.63	4	Mdstn	Br., massive		
			0.00				Sitstn	Dk. grey, vthin		Some intbd vf.gr. ss beds
•			0,00					· ·	· ·	@ 88.3m bivalve depth horizon up to 1.5cm
			0.00						.	bivalves
			0.00				Sitstn	· · ·		Occ. vfg ss lens, massive
			0.00				Carby mdstn			Pyrite bands throughout
			0.27	4.63	4,90	5	Coal			Si. dirty @ top V. clean @ base
			0.00				Mudstn			Pyrite .
	1		0.00				Sitstn	Med. grey, vthin		Intbd vfg ss/sitstn (35/65)
	-	Blocky	0.00				Sity mdstn	Med. grey, vthin		Some massive zones v. dense
Run #2	E .		0.36	8.20	8.56	6	Mdstn	Blk, vthin, mass.	Roof	Carby near bottom. Rec. 2.82
			0.51	8,56	9.07	7	Dirty coal	Black		Mdstn partings
			0.02	9.07	9.09	8	Coal loss			
			0,25	9,09	9.34	8	Coal	Black		Clean coal, dirty zone near bottom
1			0.34	9.34	9.68	9	Coal	Black		V. clean
Run #3		Blocky	0.01	9.68	9.69	9	Coal	Black		Clean
			0.52	9.69	10.21	10	Coal	Black		Bentonite mud @ base - 5 cm zone
i .		Blocky	0,19	10.21	10.40	11	Coal ,	Black		Clean coal very hard
		Crushed	0,19	10.40	10.59	12	Dirty Coal	Black		Very crumbly zone
	· ·		0.03	10.59	10.62	12	Coal loss			
		Blocky		10.62	1	13	Coal	Black		Clean
Run #4		Blocky			11.42	14	Coal	Black		Clean mostn parting @ 14.33, Rec. 2.44
		Crushed	0,98	11.42	12.40	15	Coal	Black		Crushed @ top
			0.03	12.40	12.43	15	Coal loss	1	· ·	,
•		Blocky	1.72	12.43	14.15	16	Dirty coal	Black	·	Puroclastic parting 3 cms
	1	Blocky	0,12	1,4.15	14.27	17	Coal	Black		Clean - dirty @ top of sample
			0,08	14.27	14.35	17	Coal loss			
	1	1	0.18	14.35	14.53	17	Coal			
			1	14.53	14.65	18	Coal loss			
Run #5		Blocky	0.25	14.65	14.90	18	Coal	Black		Becoming muddy @ base
		Blocky	0,00			19 .	Carby mdstn	Black		Floor - mdstn 1,91m rec.

T93R-08C

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
		Blocky	0,00				Dirty sitstn	Grey		- turning silty @ base
Run #6		Blocky	0,00			۰ <u>-</u>	Sitstn	Grey		Same as above
Run #7		Blocky	0.00			20	Sity mdstn	Grey		Roof - 2,14m rec.
		Blocky	0,00			20	Coaly mdstn	Black	z	Very coaly 50/50
		Blocky	0,00			· 21	Coal .	Black		Mdstn @ top
		Blocky	0.00			22	Mudstn	Black		Ash layer (pyroclastic)
		Blocky	0.00			23	Dirty coal	Black		Very dirty coal
		Blocky	0.00			24	Coal	Black		Clean
Run #8		Blocky	0.00			25	mdstn	Black		Turning slity @ bottom - floor
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HOLE≠ SITE≠	T93R-11C		
PROJECT	Telkwa		CONTRACTOR
DATE	Sept. 3/93	,	DRILLER
CORE TYPE			LOGGING CO.
GEOLOGIST	Angelo		CASING
	-		LOGGER

#### COMMENTS:

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	ΤO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
			0,13 .	19,83	19,96		Coal Loss			
Run 1		broken	0,58	19.96	20,54	t	coal	black		run 1 = 65.5-68.5 82 cm rec si dirty strarted in coal
Run 1		broken	0.24	20.54	20.78	2	mudstn	carb brown dark massive	-	plant debris throughout
Run 2		broken	· 0.29	20,78	21.07	3	mudstn	carb brown daark	,	run 2 68.5-73.0 1.45 m rec mudstn a/a
Run 2		blocky	0.06	21.07	21.13	3	mudstn	carb black		very coaly
Run 2		broken	0.73	21.13	21.86	4	coal	black	i i	thin dirty bands near base
Run 2		broken	0.02	21.86	21.88	5	mudstn	brown massive		
Run 2		broken	0,32	21.88	22.2	5	coal	black .		
			0.01	22.2	22.21		Coal Loss			
Run 3	•	broken	0.28	22.21	22.49	5	coal			run 3 73-80 2.11 m rec clean
Run 3		blocky	0.03	22.49	22.52	5	mudstn	carb black		
Run 3		blocky	0.81	22.52	23.33	6	coal	black		clean hard
Run 3		broken	0.06	23,33	23.39	7	mudstn	carb black		40% coal
Run 3		broken	0.02	23,39	23.41	7	coal	black		hard clean
Run 3		broken		23.41		7	mudstn	1		floor 25 cm taken si sity esp towards base
Run 4		broken	0,45	39.85	40,3	8	mudstn	carb		run 4 130-136 1.81 m rec roof commen plant debris
Run 4		blocky	0,38	40.3	40.68	9	coal	1		
Run 4		blocky	0.06	40.68	40.74	9	coal			si dirty
Run 4		blocky	0,90	40.74	41.64	10	coal	]		clean
				41.64	41.65		Coal Loss	1		
Run 5		blocky	0,60	41.65	42,25	11	coal			run 5 136-142 1.85 m rec
Run 5		blocky	0.04	42.25	42.29	12	mudstn	brown massive		pyroclastic ash layer seam 1U/1 parting
Run 5		blocky	0,01	42.29	42.3	12	mudstn	carb black		coaly
Run 5		blocky	0.52	42.3	42,82	13	coal	black		clean
Run 5		blocky	0,02	42.82	42.84	13	coal	black		dirty 40% mudstn
Run 5		blocky	0.66	42.84	43.5	14	coal	black		clean
Run 6			0.42	43.5	43,92	14	coal	black		run 6 142-148 1.85 m rec clean
Run 6			0.05	43.92	43.97	15	coal	black		si dintier
Run 6		broken	0,30	43.97	44,27	15	coal	black		clean
Run 6	-	•	0.02	44.27	44,29	15	coat	black		si dirty
Run G			0.43	44.29	.44.72	16	coal	black		clean
Run 6			0.01	44.72	44,73	16	coal	black		dirty band
Run 6			0.61	44.73	45.34	16	coal	DIACK		clean
Run 7		DIOCKY	0.03	45,34	45.37	17	coal			run 7 149-154 1.81 m rec
Run 7		ыску	0,02	45,37	45,39	17	muastn	prown		,
~ ~			0,03	45,39	45,42		Coal Loss			· ·
Run 7		blocky	0,45	45,42	45.87	17	coal	DIACK		clean
Run 7		blocky	0.30	45.87	46.17	18	coal	Diack		clean some pyrite on cleat faces
Run 7		рюску	0,25	46,17	46,42	19	muostn	caro	· ·	v coary mudstn 40% coal floor
Run 7		ыаску		(3.00			muastn	[		floor
Run 7		broken	0,06	47.06	47.12	20	coal	1		
Run 8		broken	0,12	47,12	47,24	20	coal			run 8
Run 8		blocky	0,03	47.24	47.27	20	mudstn			
Run 8	İ	very broken	0,08	47,27	47.35	20	coal			,
Run 8		very broken	0.04	47.35	47.39	20	sitstn			*
Run 8		very broken	0.21	47,39	47.6	20	coal *			very dirty @ base some pyrite
Run 8		very broken					mudstn	carb		
Run 8		very broken					mudstn		Ι.	bentonitic mudstn *
Run 8		very broken	I				mudstn		l <sup>·</sup>	very coaly mudstn

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT,	NOTES
Run 8		very broken			•		sitstn		••••	
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		•			•					
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HOLE# Site#

T93D-22

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PROJECT	Tellova	CONTRACTOR
DATE	Sept. 3/93	DRILLER
CORE TYPE		LOGGING CO.
GEOLOGIST	Angelo	CASING
		LOGGER

COMMENTS;

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	Teliwa Sept. 3/93		
,	Angelo		

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	INOTES	
				1			1				
				•			ដៅ			eventurden	
1/21.34	1	broken				A067	sitatn	well only med massive		dissem pyrite throughut non calc acc calc concretions near base up to 2 cm diameter	
2/24.39	1	broken				A0.66	sitatn	well orev med massive		A/A non cale no concretions	
2/27.44		broken	•			A065	sitatn	well grey med massive		A/A	
3/30.48		blocky				A064	sitato	well grey med massive		A/A some otz & calche fracture filling non calc dissem pyrite	
4/33.54		blocky				A063	stato	well arey med massive		clean w dissem pyrite pon cale	
		very broken				4062	siteto	well grey med massive		Ald argainst the multity share have	
		Pery braken				4082	mudato	aby may mad many ha			
600 60						4082	altain	any grey med manshe			
ano en		haikan		1		1002	altain	grey med marshe		n na chairt a bha na fa ann fa bhairt a bha tha tha tha na Sinnaithe da na mar bann.	
039.03		broken		ļ		4040	311341	Recharge the states and		Forested 18, 40 MATring Instance in Calcing of dis narrangian in Ald as item pase	
1	76	proken				A060	SASEL	grey med	000		
1	19	blocken				A000	siser	grey med v dan	330	a meet ald assars (5000) waak oog sould wodsel	
		DIOCKY		1		1000	coat .	District	000	The stand of a sub-transfer the Control of the stand of t	
				1		A060	\$4343	grey uni	990	anued vig subisumidari (Subazz) convession deg SSU & butows binardason	
				1		A060	37	VIG Grey agen data		witerde disawast (2022) card lams	
7/45.73	əz	Droken				AUSU	\$7.5 61	Steh lied thru		autorbed wig any area (1996) and i ming up acquerces	
		broken				AU58	SASCI	grey med massive		care toward base short slow hzz	
						A058	इत्तइद्य	grey med massive		Inactured & calcre hied A7A	
6/40.70	55	broxen				A058	\$7.503	grey med massive		AA sam short mung up sequence	
9/51.83						A057	SASIN	grey med massive		A/A dissem pyrite non cale	
9/54.88	44	blocky				A056	sನಿತಿದ <u>ು</u>	grey med massive		faint short fining up sequences non calc dissem pyrite	
10/57,93		broken				A055	altette	carb give med v thin		A/A but stronger bedded intbed vig as/stata w earb lams (40/80) non eale	
11/60.99		broken		ł		A054	ទងិចជា	grey med massive		fainty bedded	
12/64,02		broken		i		A053	sitstn	grey med massive		A/A dissem pyrite non cale	
12/67,07	57	broekn				A052	ននិនបា	grey dark massive		1	
13/70.12		broken				A051	ទាំងនា	grey dark massive		A/A daty state non calc	
14/73.17		broken	•	1		A050	altata	grey dark massive		A/A	
14/76,22		broken				A049	រាវិះវិត	grey dark massive		AA	
15/79.27		very broken				A048	mudstn	grey drk massive		sity mudsta aan esie pyrite dissem throughout	
15		very broken				A047	mudstri	grey dark massive		AA	
16		very broken				A047	mudstn	grey dark massive		pyrite blebs throughout also pyrite halos around coal fragments blebs= up to 1,5 cm	
		very broken				A046	mudstr	,		gradational to sitist towards base	
16/82.32		broken				A046	sitsim	grey dark massive		non calc	
16		broken				A045	atata	grey dark massive		A/A dissem pyrite grading to vigras near base	
17/85,37						A049	55	vig oney med massive		clean hatd vig a & p as see this coal bands w pyrite halos dissem pyrite throughout	
18/88,41	•	broekn				A044	\$\$	sity vig grey med v thin	SSD	massive @ top intbed vig sa/sits (60/40) minor SSD	
18	76	broken				A043	13	sity vig grey med v thin		kterbed vig sa/sitstn (65/35) abruct bdg contacts sharp contact w lower coal dissem pyrite thoughout w some blebs	
18		very broken	0.60	69.30	89.90	1	coat	black		clean but soem pyrite # 11 seam	
tB		very broken		69,90	90.23	2	coal	black		sl dirty towwards base # 11	
-		blocky				A042	altatn	carb black			
1		blocky				A042	11	orev v thin		https://www.cs/stata/cs/35)	
10/04/51	88	broken		1	i i	ADAT	altata	arey mad y thin		Internet v(a system) (40%0)	
10.01.21	~	broken		1	•	A040	altato	grey med massive		brecisted broken some mutaba	
20/97.56				ļ		AUAD	15	yfa arey med y thin		Nothed via as (abits //0/30) common cats lama oon cate dissem putte throughout	
20	60	blacky		1	t	A039		site of a weil area light a thin	SSD	hithed was substant (70/10) minor SSD also not be a contacte	
	00	DIOCNY		1.		4030		ufe well erest Rebt to this	550		
41				1 .	!	A010		abu tafa tunk arms Kabé tu hila	000		
11/102.00		was have		1	1	A037	mudata	and all accedics hours and	0.00		
21/103.00		very proken				A037	mudset	giey daix materia		ar fearraig I which are an an an Antherin Standarter (SAASSES) an annach de aith dia	
		sneared		405.00	105.00	A037	muaser	grey dark unti		In the steared swarses multises (w4ws5) convoluted bog	
		cinstica		105,50	105,02		çua)	DILCK		#3 scam	
I				105.62	105.67		CONLOSS				
22/108.70		very broken		1		A036	muqaa .	sity grey dank massive		and ann ann caic common bàige giega caig 🕲 fob	
22		very broken				A030	mudastra	carb grey massive			
23		very broken		108,97	107.47	1 <u>1</u>	coal	black		seam #8 clean	
1		f crushed		107.47	107,57	5	coal	black	1	dity	
1		Very broken		107.57	107,69	6	coal	black		very dirty	
		crushed		107.69	108.07	5	COAL	black		1	
1		broken		108.07	108,86	6	coal	black		[hard clean sl disty @ base	
23		blocky				A035	mudstn	carb grey dark v thin	1	Initid sitsh/mudstn (20/80) pyrite biebs @ base	
23		blocky	1	1		A035	mudstn	black		v cosly mudeth	
24	68	broken		1		A034	sketn	grey dark v thin		mdustri @ top grading to initid vig sa/sitsin @ base	
24		blocky		1		A033	sitetn	grey light massive		cale attain rapid sustained fizz	
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T93D-	22
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BOX MARK	BCA	CORESTATE	INTERVAL THK	FROM	TO	SAMPLE	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES	1
24		very broken				A033	mudsta	sity grey dark massive			1
24/112.80 .		very broken				A033	sitstn	grey med		cale A/A	
25/115.85	50	broken				A032	\$3	vfg grey light v thin	SSD	htted vig ss/sitsin (85/15) minor SSD sommon carb lams Cu gr ss near base	
25/118,90					,	A031	22	vfg grey light v thin	biotrd	A/A (70/30) more sitsin @ top	
26/121.95	,					A030	## 1	vig grey light v thin	Ι.	A/A non cale no pyrite	
26						A029	58	vfg grey light v thin		A/A (50/50)	
26		blocky		123.03		7	coal	black		s) dirty	[
26		blocky				7	çoal	black		clean hard	
27		crushed			123.82	7	ecal	black			
		very broken		•		A028	mudstn	carb grey dark massive			
27/128.05	45	broken				A028	sitata	grey med v thin		Interbed vig sa/skin (30/70) commen carb lams miner SSD	
28/131,10	68	broken				A027	sitetti	grey med v thin		A/A \$\$/\$(15/7) = (15/85)	
28/134.15		very broken				A026	sitata	grey med v thin		A/A (5/85) sheated sitsin = very dity small ant dissem pyrks	•
		broken				A025	sitstri	grey med v thin		A/A (5/95)	
						A025	skant	grey med v that		fractured and calces filed	
29		broken				A025	ensus . h. t.	grey med		ArA indiced savisition (with)	
1	63					A025	38307	grey med v than		89 July 19 Jul	
						A024	COAL	DISCK		tiean hard	
30/137.2		broken				A024	श्रादश्वमा अभिनेतन	grey med v trun		Interped vig ssystem (Tuku) abrupt bag contacts non cale some dissem pyrte	
31				400.70		A023	81341	grey mea y un		AVA MILISTING & CAID (200350	
		DIOCKY		139,10			coal	black			
		broken			400.00	, °, '	COAL	black		pyna banda buodonou any (2 base	
24/1021		boken			103.00		coal and a state	brown	-	tical statu	
31/140,24		broken		130 00	140.64	ő	coal	black		ming parties of the second s	1
<b>.</b>		utoten		140.64	140.04	1 <b>.</b>	coal	black		and produced and a second se	
31		hindre		140.04	141.40	10	coal	black		clean bard	
1		blocky	140	141.10	142.50	1.1	' cost	black		stanting	
31/143 20		blocky	0.24	142.50	149.74	12	coal	black		is an market an unity light top	
51/145.20		DIDENY	0.10	147.74	147.84	12	coal loss	Diate			
		blocky	0.08	142.84	142.92	12	coat			a) dirty	
		blocky	0.01	142.92	142.93	12	nudata	orey light			
		blocky	0.68	142.93	143.61	12	coat	black		st disty @top	
32		crushed	0.34	143.61	143.95	. 13	coat	black		sheared diny (2) ton	
32		crushed	0.03	143.95	143.98	13	mudstn	grey dark massive			
32		crushed	0.19	143.90	144.17	13	coat	blake			
			0.02	144.17	144,19	. 13	rack loss			•	
		crushed	0,27	144.19	144.46	14	mudstn	carb grey dard massive		sheared	
32		blocky	0.05	144,46	144,52	15	coat	black		v disty heat	
		broken	0,67	144.52	145,19	15	coal	black		cican .	
		broken	0.22	145.19	145.41	15	coal	black		si dirty	
		broken	0.05	145,41	145,48	15	coal	black		coal w thin as beds up to 0.5 cm trick	
			0.05	145.46	145.52	15	coal loss			,	
33/146.34		blocky	0.45	145,52	145,97	16	coal	black	'	clean hard -	
33		broken	1,01	145.97	146,98	18	C01		• •	clean hard	1
34		blocky	0,09	146.98	147.06	17	coal	black		st diety	
1		blocky	10.0	147.06	147.07	17	C03	grey dark		50% coal 50% sites	
1		blocky	0,45	147.07	147.52	17	coal	black		tican	
		blocky	0.05	147.52	147.57	17	CO1	black		N daty .	1
		blocky	0.19	147.57	147.76	17	C01	DIACK			
1		DIOCKY	0.01	141.76	14/.//		LOAI	DI D	l	ននាររដាល់ទស ចនបោធាជិ	1
1		h	0.23	140.00	1/0.00	10	coat loss	black	ł	laters (	1
ļ		Dioreu	86.0	140,00	140,50	10	contine	Line Ca		65411	1
1.000.000		blacks	0.02	140.00	140.00	10	coal	black		effet ( hithed stands) must be seen to discon	1
2014200		broken	0.4/	140,00	140,07	10	coat		•		1
1 '		oreacts	0.04	149.44	149.12	Ánoo	mck los	1	ł		1 .
1		biarky		140.11	190.12	A022	mudstn	black	· ·	roak militer #8 foor	1
		very broken				A022	mulation	orev dark maashe		cosh (index) to have	
		broken	1.78	149.67	160.95	20	coal	black		el dete @ten #5 asam	
1		*****	0.14	150.85	151.09	21	coalioss	1		le en A se el la range	1
		very hroken	0.33	151.09	151.42	21	coal	black		#5	
1		crushed				A021	mudstr	brown light		bent mudstn *	1
1		Very broken				A021	mudstn	carb grey dark massive		grading to alists @ base	1
						A020	11	vig grey med v thin		Intbd ss/stat 80/40 non cale minor pyrte	1
34/155.49	64	crushed				A019	mudata	orev dark massive		learb	1
		very broken				A019	mudstri	grey dark massive		carb dissem pyrite & bless @ base bless bless bless bless bless bless	
35	l	Very broker	1,28	156.44	157.72	22	coal	black		#3u seam	1
1 1	İ	very broken				A018	mudatn	grey dark maasiye		#3 parting pyrite banding @ lower contact with coal	#31 ac.2m
35/159.64		broken	0,29	167.99	158,28	23	C01	black		#3L seam	1
1		broken	0,14	168,28	168,42	23	cosi	black		#3L seam	1
		blocky	0.01	158.42	158.43	24	altatin			#3L seam	1
1		1 '	0.25	159.43	158.68	24	coalioss		ł ·	1	
•	,	•	•	•	•	•	•	•	•	•	•
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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE#	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
		broken ,	0.72	158.68	159.40	24	COA	black		#3L seam
36/181.59		-				A017	mudstn	grey dark massive		non cale plant frage
37/184.6		broken			-	A016	mudstn	grey dark massive		pyrite blebs common carb zones si coaly
37		broken				24B	coal	black		dirty
37/167.68		very broken				A015	ព្រាកខ្លាស	sity grey dark massive		non cale
38 1		broken				A014	altatu	grey dark massive		dirty
		broken				A013	mudstn	sity grey dark massive		carb roof #2
30		very broken	0.07	169.12	169.19	25	coal	black		hard dity #2 seam
		blocky	0.26	169,19	109.47	25	coal	black		st dirty
38		blocky	0,06	169.47	169.53	25	coal	black		pyrite banding throughout
	i	broken	0,18	169,53	169,71	25	coal	black		dinty
38/170.7	1	broken	0.66	169.71	170.27	26	coal	black .		clean hard
		broken	0.27	170.27	170,54	28	coal	black		AA
			0.31	170.54	170.85	28	coaliosa			
		broken	0.09	170.85	170.93	27	coal	black		al dirty
		broken	0.01	170,93	170.94	27	33	grey Faht		
		broken	0,09	170,94	171.03	27	coal loss	black		clean .
			1.10	171.03	172,13	27	coal			
			0.10	172.13	172.23	28	coa	black		daty mudsin banding
			0.07	172.23	172.30	28	coal loss			· · · · · · · · · · · · · · · · · · ·
39/173.8			0.97	172.30	173.27	28	coal	black		clean hard
· · · ·		broken	0.58	173.27	173.85	29	coal	black		abrupt contact w floor
39		very broken				A012	mudstn	carb grey dark massive	1	et avob paibra et Setun
39/176.6	60	broken				A012	sitstra	grey dank	SSD	intbd vfg sa/sitsin
40/179.9	47	broken				A011	55	grey med y thin	SSD	intbd yfg saystatn (60/40) si calc slow sustained fizz
41 .		broken				A010	sitstn	grey med y thin		A/A (10/90)
						A010	5\$	vig light massive		
41/162.9						A010	sitstn	grey med v thin		A/A (5/95) some mudstri
42/166	77					A009	**	fg grey light massive		#2 as common carb lams
		blocky				A009	<b>53</b>	vig grey light massive		
43		broken				A009	coal	black		· · ·
		broken				A008	\$\$ .	vfg grey light massive		shell frags w/m some fracture fil
		blocky				A007	89	fg grey light massive	1	clean s & p as non cale no visible pyrite
!			•		-	A007	ាវ៖bum	grey light		bent mudstri
		blocky	•	i .		A007	\$3	grey light massive		23 A/A
43/192.1	84	broken	•			A006	sitata	grey med y thin		intbod v(g ss/sītstn (15/85)
		broken				A006	នដែរបា	grey med y thin	1	A/A ·
1 1						A006	mudstr	sity grey med		-
44/195.1		blocky				A005	53	vfg well grey light massive		occ shell frags non cale
45/198.2		blocky				A004	59	fg well grey light massive		non calc occ carb lama
46/201.2		blocky				A003	23	fg well grey light massive		A/A
46/204.3		blocky			1	A002	33	ig well grey light v thin		anded vfg sa/sitsin (75/25) occ coal blebs w assoc pyrite dissem pyrite as well
47/207.3	60	blocky				A001	22	fg well grey light massive	•	occ carb lams & thin beds of mass clean TD
				,			1	1	ł	-
								1 1	•	

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HOLE# SITE#	T93D-23	· ·	
PROJECT DATE CORE TYPE	Telkwa Sept. 3/93		
GEOLOGIST	Angelo	CASING LOGGER	

COMMENTS:

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	то	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
	1						1		1	· · · ·
			36,59	. 0	36,69		ona			till & overburden
1/39.63		verv broken			· · · ·	A001	sitst	orev med massive	1	weathered dirty, non cate no pyrite
1/42.68		broken				A0D1	stat	grey med massive		weathered, dirty, non-cale, no pyrile
		broken				A001	sitst	grey med massive		A/A drading to SS near base minor calcile vehing
2/45 73		hroken				A002	58	sty yfa grey light massive		Didu se e neo cati utione non-cali calita fractura fil
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	45'	broken				A002	68 68	vid area light massive		
2149 78	1 7	Venthoken				4003	allal	en grav mad macelua		
0140.70		Very broken	1			4003	-14-1	ss groy med massive		
		broken				A003	attat	groy med massive		AVA
	1	broken				1003	51(5)	grey med massive		Act A lascing a calcula bill
40.00		broken besteen				A004	51(5)	ss grey meo massive		Carb fains sandler towards base non cale
4/54,8/	45	broken				A005	53	vid gray iight massive		carb rains of top occ bivarye up to 3 cm of 40-53 cm si calc sitst vonin beds occur near base
5/57.92	10	Droken	1			A008	55	ig grey light v min	1	V Thin caro mudst lams with non calc
6/60/88		broken	1			A007	\$3	ig grey light lam	]	clean \$ & p non calc ss w carb lams oco diny zones
6/64.02	1	broken				800A	55	ig grey light massive		occ carb lams win some brecclated & fracture zones
7/67.07	]	broken ,				A009	55	fg grey light massive	1	A/A si calo
	58	broken				A010	53	fg grey light massive		A/A si cale
	1	broken				A010	\$\$	fg grey light massive		A/A brecciated w calcite vehing & bivalve shell fragments
	72	broken	·			A011	55	fg grey light massive		common carb lams no visible pyrite
8/73,17	1	broken				A012	55	vig grey med massive		occ disturbed carb lams rose bivalves up to 3 cm
		broken				A013	<b>S</b> S	ig grey med massive		A/A slity towards base
		broken				A014	mudstone -	grey dark massive		sitst @ top grading to mudstone non cate
		very broken				A015	mudstone	carb grey dark massive		carb mudstone within coal bands up to 1 cm
		very broken				A015	mudstone	carb brown dark massive		friable, carb
	60	broken				A018	sitst	grey med		dirty slist @ top grading down to vfg ss @ base
10/79.27		broken				A017	\$\$	vfg grey light massive		catcite filled fractures
11/82.32		broken				A018	55	vfg grey light massive		A/A several fractured brecclated zones
11/85.37		broken				A019	55 .	vig grey med massive		breccialed A/A
12/88.41						A020	55	vfg grev med		grad to slist @ base cale slow sustained fizz
13/91.46						A021	sitst	ss orev med massive		A/A sandy sitst transitional to mudst @ times
		blocky			1	A022	sitst	crev licht massive		breceialed sitst
13/94.51		broken				A022	mudstone	grey dark massive		sity muristone non calo
14/97.56	l	broken				A023	muristone	grey dark massive		A/A some calcia filed fractures
1	1	broken			1	A024	mudstone	silv crev dark massive		A JA elity fought base
		hroken				A024	ellet	ntev med massive		didy strates
15/300 61	i i	blocky				A025	muristone	grey dade massive		a sjiker mutelone
1.00.01	· ·	broken				A025	mudstone	aray dark massiva		
		cruthed	0.23	80.00	100.21	1	enal .	hisek		rwa
i i		· · ·	0.03	100.21	100.24		continen	DIAWA		
		healing	0.03	400.24	400.24		cual luss	and brown dark manake		•
		bioken	0.12	100.24	100,30		illion storie	black		
101103 00		Grusilea	0.94	100.30	1 100'19	1000	uccal mudatana			histh muh tette traze
10/103.00		Broxen				1020	ind stone	grey uark massive		
		broxen				A027	sust	grey med massive		grad from mudst to dirty vig ss
1	1					A027	<sup>55</sup> .	sity vig grey mod massive	1	onth Ald sith as uou care
			0.18	105,19	105,35	4	ccal			clean
1			0,03	105.35	105,38	4	coal loss			
16/108.70	67	broken				A028	mudstone	sity grey med massive		
		blocky				A028	mudstone	grey dark massive		abrupt contact w lower coal
		broken	0.48	106.37	108.85	5	coal	black		
		very broken	D.08	106.85	108,93	6	coal	black		dirty coal 40% mudst
			0.35	106.93	107.28	5	coal loss			
		very broken			· · · · · · ·	A029	mudstone	carb black massive		very cash mudat
		,				A029	mudst	grey dark massive		
17/109.78		very broken				A030	**	fo grey med massive		brenciated very dirty or pap cale minor mudel
		hroken				A030	**	la arev light massive		incommentation and assimil reaction indicat
1		Very broken				A034	au	earth plack		
1	1	Very oronom				4031	mudat	Hahl areu		,
	1	Бюску				1001	muust	agint gray		
1	I	Г вюску	I	l I	I	AU31	22	ha area naur	I	a p airy ss non calc

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	то	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT	NOTES
17		broken				A031	mudst	carb black		
18						A031	55	fg grey light massive		A/A
18		broken				A031	mudst	carb grey dark massive		coaly mudst
18/112.80		broken		1		A032	sitst	grey med massive		mixed vig ss/sitst/mudstn
		broken				A032	55	vfg grey med massive		dirty @ top clean near base
19		broken				A033	58	fg grey light massive		cale slow sustained fizz carb flakes win rip ups
		very broken				A034	mudstone	grey dark massive		
		crushed				A034	coal	black		
						A034	mudst	carb black massive		coaly
		very broken				A034	mudst	grey dark massive		
19		crushed	0,19	117.67	117.86	-6	coal	black		si dirty
19		broken	0,14	117.86	118	6	mudst	carb grey dark		
			0,04	118	118.04	6	coal loss			
20		crushed	0.16	118.04	118.2	6	coal	black		dirty
20/121.95		very broken				A035	mudst	carb grey dark massive		intbd carb mudst/coaly mudst
•		-				A038	mudst	carb grey dark massive		A/A
						A036	mudst	black		very coaly
21/125.00						A036	mudst	grey dark massive		noncale
						A037	mudst	grey dark massive		A/A
	80	broken				A037	coal	black		dirty
		crushed				A037	mudst	carb grey dark massive		
23/131,10	40	' broken				A038	mudst	grey dark massive		non cale si carb
		very broken				A039	mudst	carb grey dark massive		coaly lowards base
		very broken	0.18	131.02	131.2	7	coal	black		dirty platy
		very broken	0,50	131.2	131.7	8	coal	black		crushed @ base
		very broken	0,37	131.7	132.07	9	coal	black		s) dirty
		blocky	0.03	132,07	132.1	9	sitst	carb grey dark massive		-
		-	0.01	132.1	132.11	9	coal loss			
		broken	0,59	132,11	132.7	9	coai	black		
						A040	sitst	carb grey dark massive		fractured
		crushed				A040	mudst	bent grey light massive		bentonuliic mudst
	61	very broken				A040	mudst	brown massive		
24		blocky				A040	sitst	grey light massive		v hard cale rapid sustained fizz
		very broken				AD41	muðst	sity grey med massive		carb near base non calc
		very broken	0.41	134.63	135.04	10	coal	black		
			0.03	135.04	135.07	10	rock loss			•
		proken	0,22	135,07	135,29	11	mudst	grey dk massive		
		very broken	0,13	135.29	135.42	11	coal	black		
24		very broken				A042	ជាបេវីនដ	carb black massive	•	floor
24/137.20		broken	, ,			A042	mudst	grey dark massive		
				· ·	1	A043	coal			·
	68	broken				A043	mudst	grey dark massive		•
25		crushed	0.28	137.81	138.07	12	coal	black		dinter @ top
25		very broken				AD44	mudst .	grey med massive		1
		crushed	0,30	138,57	138.87	13	coal	black		
			0.11	138.87	138.98	13	coalloss			
		broken	0,06	138,98	139.04	13	mudst	grey light		bent
			0,41	139,04	139,45	14	coal loss	l		
		very broken	1.13	139.45	140.58	14	coal	black		clean hard
		broken	0,25	140.58	140,83	15	coal	black		dirty
	80	broken				A045	mudst	grey med thinly bdd		massive @ top inidb sits towards base
26/143,25		broken			·	A045	mudst	sity grey med massive		brecciated w calcite fracture fill @ top
27/148.34		broken				A046	sitst	grey med massive	1	dirty @ top more sitst towards base brecciated A/A non calc
28/149,39		broken				A047	sitst	grey light massive	1	bivavies up to 4 cm present occ TD
				. 0	1,62	1	•			
1					1	1	1	1	1	1

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HOLE # SITE #		T93D-24		
PROJECT DATE CORE TYPE	•	Telkwa Sept. 3/93	•	CONTRACTOR DRILLER LOGGING CO,
GEOLOGIST		Angelo		LOGGER

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## COMMENTS:

box 1 broken 2.00 '5 A001 Intrusive grey light massive for stained st weathered on weathered dtz monzonite 35-40% 60-65% minerals (dtz 65% feldspor 33% mafics <2%)	
box 2     1.81     20     A UU1     nouve       box 2     0.82     0.92     30     A002     intrusive     grey light massive     intrusive     non weathered       box 2     0.92     0     A002     intrusive     grey light massive     intrusive     non weathered       box 3     1.12     0     A002     intrusive     grey light massive     intrusive     non weathered       box 3     1.12     0     A002     intrusive     intrusive     intrusive       box 4     3.10     40     50     A002     intrusive     fracture 3 or F a stained or G base 2 cm from fracture most alleration       box 4     3.10     40     50     A003     intrusive     A003       box 5     1.40     0     A004     nor massive     intrusive       box 6     3.05     60     90     A005     nor massive       box 7     3.05     60     90     A005     nor massive       box 8     1.17     70     A004     nor massive     A/A       box 8     1.25     10     A007     massive     A/A       box 9     3.03     120     130     A007     non fracture 4 fet stained 4 fractured     A/A       box 11	fë zone

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HOLE# SITE#	T93D-27	
PROJECT DATE	Telkwa Sept. 3/93	CONTRACTOR DRILLER
CORE TYPE		LOGGING CO.
GEOLOGIST	Angelo	Casing
60111 mm		

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## COMMENTS:

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
			73.17	0	73.17		[till		1	
1/76.22	51	very broken	2.94	[	76.11		sitst	grey med thin		inthd v(a se/sttet (AS/AS)
		very broken	1.00		77.11		sitst	grey med thin		inthe vig bases (40,00)
2	52	very broken	3.21		80.32	[	SS `	sity yra	· ·	lathd (in co/oliet (65/05) obrunt contacto
3		broken	0.32		80.64		58	fa arey light massive		ninge and solarist (poloo) appropriotitians
3/82.30	54	broken	1.20		81.84		sitista	In a cover mod utble		leth du de extrator (d.C. 2017)
3	ĺ	broken	3.52		85.36	ſ		the gray man links this	· )	(muu vig ss/sm (15/60)
4		very broken	2 20	·	87 56	l .	sticto	any and the fem		inde vig ssistin (10/80) with mudsin buyers
4		very broken	0.61	87.56	88 17		ereau cont	vig grey med ununant		grad ss/sitstn/mudstn (root)
4		very broken	0.19	01.00	00.17	5	mudete			si diny @ top of sample
4		very broken	0.10		88.50		oliciusui olicito	giey daix		
501.44	55	very broken	2.06		00.02	'	SUSUI	vig grey med v triin		Inter bed vig ss/sitn (10/90)
5		very broken	2.00		30.00		SUSIO	vig grey med v trin		Inter bed ss/sitn (20/80)
in in	ļ	very broken	2.11		92,99	]	Silstri	vig grey med v thin	1.	Inter bed ss/sitn (20/80)
034,49		Droken	1.14		94.13		Sitstn	vig grey med v thin		Inter bed ss/sitn (20/80)
0	1	very broken	2.20		96,39		sitsta	vig grey light v thin	·.	Inter bed vig ss/sitn (25/95)
0		broken	0.20		96,59		mudst	grey dark		sity
0		broken	0.62		97.21		sitstn	vig grey med v thin		some mudsin layers
7/100,58		very proken	3,14		100.35		mudstn	sity grey dark		Interbed sistn/mdstn (25/75)
1		very broken	0.60		100.95		สมประก	sity grey dark		interbed sistn/mdstn (25/75)
s		very broken	0.90		101.85	4	sitstn	vig grey light v thin		turning mudstn @ base calcitic zone roof
1	1	crushed	1,00	101.85	102.85	5	coal	black	· ·	clean
8/103.66		broken	0,46	102.85	103.31	5	coal	black		clean
		crushed	1.91	103.31	105,22	6	coal	black		clean w occ si dirty bands
		crushed	0.36	105.22	105.58	7	coal			partings w/in sitstn/mudstn
9/105.71		crushed	1.02	105.58	106.6	8	coal		1	si dirty bandino
		crushed	1,33	106,6	107.93	9	coal		1	clean
		very broken	0.22	107.93	108.39	10	mudstn	carb massive	-	
		crushed	1.66	108.39	110.05	11	coal	black		clean
1	1	crushed	0.42	110,05	110.47	12	coal	black		dirty banding win
		broken	0.01	110.47	1 10.48	13	coal	black	i .	v dirty
		broken	0.01	110.48	110,49	13	mudsta	grey		
	{ .	1		110.49	110.76	13	coal loss			
		crushed	0,32	110.76	111.08	13	coal	black		
1			1.22	111.08	112,3	13	coal loss			coal loss not recovered
11/115,85		crushed	0,40	112.3	112.3	14	mudsta	filev dark		
		crushed	2.65	112.7	115.35	15	coal	5.0, 0		
ſ ·		í í	[ [	115,35				1	ſ	Do mote care reported peoplificant alteria playeties to an definition
										The more core recovered cost notil spoke stongling it ou duitstem
		•				:				
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HOLE # SITE #	T93D-31		
PROJECT	Telkwa	•	CONTRACTOR
DATE	Sept. 3/93		DRILLER
CORE TYPE			LOGGING CO.
GEOLOGIST	Angelo		CASING
			LOGGER
COMMENTS			

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## COMMENTS:

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE#	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES .
· ·	,		33,53	0	33.53		till	1	1.	casing to 33,53m - overb
1		broken	0,05			1 '	coal	black		clean .
1	·	broken	0.28			4	mudstn	grey dark		carby mudstn
1/36.58		broken	2.07			'	mudstn	skity grey med		mudstn víg sitstn @ base
1		broken	0.61		1	[	mudstn	sity grey med		mudstn vra sltstn @ base
1		verv broken	1.03	/	4	1	sitstn	vfg grev med vthin		interbed mudstn/sitstn (40/60)
2		very broken	0.33	i '	• · · · ·	'	slistn	vía prev med	•	interbed mudstn/sltsin (40/60)
2		very broken	0.14	i '	ŧ !		mudstn	sity grey med massive		vfa sltstn @ top
2		very broken	0.49	i †	f !	1 '	coal	black		clean
<b>`</b>		very broken	241	i '	( <sup> </sup>	· · ·	sltstn	via arev light v thin		
2		broken	1.05	i '	1 1		sitstn	via arev light v thin		deformed zones
3/42.67	51	broken	0.66	i '	( <sup> </sup>		sitstn	via grov light v thin		interhed ss/sitstn (20/80)
3	45	broken	1.06	1 '	{	1 '	sitstn	vía arev light v thin		interbed ss/sitstn (20/80)
3	vort	very broken	0.66	1 '	1 '		sitstn	via arev light v thin		interbed so/sitst (40/60)
5	46	very broken	1.38	i '	'		eltetn	via arev light v thin		Interbed select (A0/60)
3	40	Yery broken	1.54	i '	'		elteta	fa grey med y thin		Interbed satisf (40/00)
3	52	broken	1.42	1 '	'		elicin	via arey med y thin		Interhed selettetn (20/20)
4/40.//	55	broken	1.44	l '	'		eltetn	wig grey med v thin		interbed seletteta (20/80) with murleta lances
4		Hone broken	1.03	'	'		511341	elly fa wall gray light massive		a = b = b = b = b = c
15		Very broken	3.28	'	'		55 55	sity ig wen grey right massive		interind colditate (55//5) mote alter (6 hase
5 0/7 / 1/2		Very broken	3,20	'	1. '	l . '	olinin	Sity vig wen groy ugut v unit		Interbed Salation (30/40) more any log base
6/54.80		Very broken	1.07	'	'	· · ·	Sitsui	Vig grey vark lan		Some calche zones
5	54	Very broken	4.05	'	'		SilSu	ig grey light v ann		interbad celetiete (40/00)
( 	эı	Very broken	4.10	'	'		Siloui	vig grey med v thin		Interbed satsistin (10/50)
8/64.00		Very broken	0.00	'	'		SILSUI	vig grey med v thin	1	laterbed sevents (10/90) seem epileite zenes
8		proken	0.04	1		<b>.</b> .	SilSu	vig grey med v um	1	Interped system (10/30) source carete zones
8		Droken	0.07	'		1	muosin	sity grey dark massive	1	
9/70,10		Very broken	2.01	i '	f '	1	SIISUI	Vig grey men v unn	•	Interbed mudstavsitsin (2000)
9		Very broken	1,40	i '		1	SILSUI	Vig grey dark v unin		Interbed mudstavsitstin (10/30)
10//3.15		Very broken	1.//	4	í '	1	SICSIN	Vig grey dank v trin		Investo parting fuero (@ top of sample
10		blocky	2.46	4	l '		sitsin	ssvig grey med v thin		Interbed ss/sitstn (10/90)
11	50	broken	3,98	t '	1		sitstn	ss vig grey dark v thin		interbed ss/sitstn (10/90)
12	·	broken	0,66	í '	1 '	'	sitsta	ss vfg grev dark v thin		interbed ss/sitstn (10/90)
12/82.30		broken	, 2.71		1	'	55	sity vig well grey light massive		fine grain constant some carby lenses
12		broken	1.23		1	'	55	sity vig grey med massive		fine grain constant some carby lenses
13		blocky	3.87		1		sitstn	fg grey dark massive		pyrite zones @ 2.5m area
13		i -	1		1					
14		i	4.27	1		. · ·	sasn	vsity vfg well grey med massive		occ sitst & carb wisps w/in rare bivalves up to 3 cm
15			4.21				55	vfg well grey med massive		A/A bivalves up to 10 cm ostrea? thickwalled & creuuleted shell transitional to oltsin
16/100	46	· ·	4.12	1			55	vsity vfg will grey med massive		A/A bivalve death horizon @ 3.2 to 3.4 m
17 .	1		4,08	1			55	vfg well grey med massive	ssd	A/A bivalves rare occ carb lams
18	49		4,33	1			SS	vfg will grey med massive	ssd	siltier near base silstn & carb lams more commen
19			1,98	1	l		sitstn	grey med massive		some mudstn
19/112.8			2,35			-	ss	sity vfg well grey med massive	ssd	common faint sitst/carb lams
20			1.10	Í			sitstn	grey med massive	· ·	· ·
19/112.8 20			2.35 1.10				ss sitstn	sity vfg well grey med massive grey med massive	ssd ,	common faint sitst/carb lams

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# Page 1

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HOLE # SITE #	T93D-31				·	·	
PROJECT DATE CORE TYPE GEOLOGIST	Telkwa Sept. 3/93 Angelo	·	CONTRACTOR DRILLER LOGGING CO. CASING	 :			
			LÖGGER				

# COMMENTS;

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES	l
20			2.24				mudstn	sity vfg well grey dark massive		silty @ base	í
21	1		4.46				sitst	grey dark massive		fractured @ top vfg ss zones	1.
22			4.28				sitstn	grey dark massive		A/A	ł
24			8,35	· ·			slistn	grey dark mássive		A/A some pyrite assoc w coal frags	ĺ
25	!		4,20				sitstn	grey dark massive		A/A with pyrite in carby zones	ĺ
26	1.		0.20				mudstn	grey dark massive		turning silty @ base	ĺ
26			3,59				sitstn	grey dark massive		some calcite zones	ĺ
27/143.26			1.53				sitstn	grey dark massive		AA	
28			2.93				<b>S</b> S	vfg grey light massive		silty @ top shell gragments w/in near base	l I
28			3.25				sitst	grey med massive	•		
			1.34				sitstn	grey med massive	· ·	A/A	
			0,08				mudstn	grey light		bent	
			2.45				sitstn	grey med massive			
30			3.86				sitstn	grey med massive		grading to vfgr ss near base	
31	I		4.02				S\$	vs vfgr grey med massive		rare bivalves occ gastropods up to 2 cm	
32			4.07				55 '	vfgr grey light massive		A/A occ bivalves up to 10 cm	
			1.27				ss	vígr		AVA	
33	46		2.87	1			SS	fgr grey light massive		occ vfg ss/sltst/carb lams w/in minor ssd	
34			3.90	ł			\$\$	fg will grey light massive	ssd	A/A some vfg w/in	
•			4.34	ļ.			SS	fg well grey light massive	ssd	A/A no víg carb wisps	
37/182.9	45		4.48				55	fg well grey light massive	ssd	A/A	

HOLE # SITE #

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T93D-38

PROJECT DATE	Telkwa Sept. 3/93	CONTRACTOR
CORE TYPE GEOLOGIST	Angelo	LOGGING CO. CASING
•		LOGGER

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COMMENTS:

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	то	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
				0	18,3		overburden			
3	65	blocky					55	fo well prev light massive		broken 🕫 too non ceic & no pyrite clean s & o ss
1		blocky			l			un well nev med massive		Weakly badded ex(ellet (7525)
0000		<sup>3</sup> blocky				1		fawall grou mad maasha	1.	none plate and this badance are sale to make
6/39,6	/0	ыску					35	to well provided massive		de sista can un besvians noi cae no pyne
739.6		DIOCKY		1		1	55	to well brey med massive		WA minor thin coal up to 1 cm @ top braines up to 5 cm @ base
		blocky				1	55	vig well grey med massive		overall fining up sed vig to sitst @ base
11/64.0		broken				1	mudstn	grey dark massive		mudstn to stly mudstn si sh sheared @ times occ bivalves w/in up to 4 cm
		broken					sitstn	grey med massive		clean hard occribitatives A/A
		blocky					coal	black		
		broken			69.89	1	sitst	grey med massivo		massive sandy sits w occ bivalves/shell fragments A/A abruct contact w lower coal roof 25 cm sampled
13		blocky	0.21	69.89	70.1	2	coal	black.		dirty bands towards base
		broken	0.58	70.1	70.68	3	mudstn	grev dark		cate to log
13	1	btoken	0.58	70.68	71.76	4	coal	black		dirtier towards has a
		Dionest	0.07	74.76	71 28	1	coal face			
4.9		Survey baselines	0.04	71.20	11,20	1 2		are i de di		and sould be the fine
13	-	Vely Dioken		11.20		1 2	mudsta	groy data		
	12	Dioxea				·	muosta	carb niey dank		
							SIESC	grey med massive		carp & occ vig ss lams
15							mudstn	grey med tain		Interbed mudst/sitst/vig ss (60/35/<5) non calc
		blocky					5\$	carb mg grey light v thin		coal rip-ups w/in bds @ top
	1	very broken					sitstn	grey med v thin		prad from mudsin @ top to initiad vig ss/sitst @ base
		broken					SS	ing grey light v thin		fining up overall ig ss @ top w carb & slistn lams grading to massive mg ss w occ carb lams @ base clean hard s & [ ss
	-						mudsta	gtey dark massive		sicarb abrupt contact w ss
		verv broken					mudsta	carb black		y coaty mydsin n 35% coal
	1	crushed	0.19	84.86	85.05	6	cost	black		
			0.58	85.05	85.63	a l	cont loss			
	ł	cryshed	0,00			1 -	mudsta	black		contraction
		biologi				1	mudeta	Picion		varu musa
	1	Dicken				1	1100501	1 .		
	i	Dioken					COAL	1		Aci A cin A C Dase
		broken				i	muasin	carb grey dark massive		
		broken					COBI	DIACK		
17		very broken					mudstn	carb grey dark		
		crushed	0.38	89,69	90,07	7	coal	black		dity crushod
18		broken					តាម៤៩៣	grey dark		
		blocky					coal			n 50% mudsin .
		blocky					coal			
18		blocky					mudstn	•		n 60% mudsh i 40% coal
19		blocky					sitsta	grey med massive		carb mudstn @ too grad to slistn to vio ss @ base
	70	blocky					55	mo arey light massive		overall fining up to as $\Phi$ to 7 m-co as $\Phi$ have common carb lams A proceed to ups
21	1	blocky			101 21	A	clicin	nrev med massiva		
~'		blacky	0.02	401.24	101 23	Ā	mudeto	carb black		
		Varibakan	0,02	101 23	101.28		cont loce			dide and we arrive dide the bade
1		AciA Dinkett	0,03	101,23	101.20		coal loss			dury cost w constant and and peas
			0.39	101.20	101.05		coar			
	1	very broken	0.10	101,65	101.75	10	maasu	prey med		bout subury
-		broken	0,53	101,75	102.28		COAL	DIRCK		
		ptoxeu	0.41	102.28	102,69	11	COBI	DIECK		vory hard si diffy esp near base
	ł		0,11	102.69	102.8	11	coal loss			
1	1		0.04	102.8	102,84	12	rock loss			
21	1	broken	0,09	102,84	102.93	12	mudstn	black		Very carb
	1	broken			1	1	sitsta	grey med massive		muddy @ top
	1	blocky				1	ss	fg grey light massive		
	1				1	1	sitsta	ntey light		
	1	1				1	mudstn	carb black		contraction
	1					1	sitsin	nev med massive		
	1			1		1	55	yra well arey med y this		lathert sc/sitst (90/00)
	1			1		1	elloin	areat dark manches	1.	
1	L	I	I	I	l I	1	SUR	filley date massive	1	1 ·

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		1			1 1		ss	vig well
					[		mudstn	grey me
		very broken	0.20	108.95	109,15	13	coal	black
		very broken	0,04	109,15	109.19	13	sitstn	grey
		broken	0.20	109,19	109.39	13	coat	black
			0,03	109.39	109.42	13	coal loss	1
		broken	0.07	109.42	109.49	14	mudstn	black
			0.08	109,49	109,57	14	coat toss	
\$		blocky	0.29	109.57	109.86	14	coal	black
			0.00		i I		sitstn	grey this
•		blocky	0.00		i I		coal	black
		blocky	0.00				sttstn	grey me
	71	-	0.00				55	fg grey l
			0.00				sitstn	grey me
		broken		118.14	118.41	15	mudsta	carb bla
		broken		118,41	118.73	16	coal	black
				118,73	118,85	16	coal loss	
		broken		118.85	118.91	17	mudsta	black
		broken		118,91	118.95	17	coal	black
		broken		118,95	119.03	17	coal	black
		, broken		119.03	119.32	17	coal	black
				119,32	119.4	17	coal loss	
		broken		119.4	119.55	18	cost	black
		broken		119.55	119.65	18	coal	black
	•			119,65	119.68	18	cost loss	-
		brokea		119.68	119.78	18	mudstn	black
	1	broken		119.78	119,9	18	coal	black
	1			119.9	119.95	18	cosi loss	
		broken		119.95	119.96	18	sitsin	black
		broken		119,96	120,25	18	cost	black
		broken		120.25	I I	19	mudstn	carb
5/121.96							sitsta	grey ma
					[		sitsta	vfg grey
•	i						medsin	carb bla
		blocky			1		mudstn	grey ligi
		blocky			l I		mudstn	carb gre
7/128.0		biocky					mudstn	grey me
		blocky			i		ss	sg tan n
							sş	vfg tan r
		crushed					mudstn	black
9/137,2		broken					sitsta	grey me
							1.	
		1						
	1	1		1	. 1		E C	

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ll grey med v thia led massive in ed massive light massive ed thin ack massive . assive y med massive ack ht massive ey dark massive ed massive massivo massive ed massive

AVA ss (90/100 clean hard clean very carb very dirty coal intbed vig ss/sitst/carb mudstn 920/50/30) coals up to 10 cm clean hard dirty sitsta clean s & p ss v tare carb lams Intbed ss/sitst/mudstn (25/45/30) very carb very coaly ctean st dirty clean dirty clean dirty dirty bands throughout grasding down to vfg ss v c g rained @ base 10 cm cosly mudstn bentonitic mudsin well mixed hard & well consolidated minor beat influence unino beat minorities beat middsin ash particles throughout forming this beds volcaniclastic bed og in appearance beat mudsin w volc frags throughout muddy @ top overall fining up volc rock fragments forming fg vog ss A/A frags up to lam coaly mudstn TD

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## HOLE # SITE #

T93R-42C

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PROJECT	Telkwa	,	CONTRACTOR
CORE TYPE	Sept. 3/93		LOGGING CO,
GEOLOGIST	Angelo		CASING LOGGER

## COMMENTS:

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES '
	1									
Run 1		crushed	i				mudstn	carby brown		carby mudsin - might be foor reg 0.46
		crushed					elleto	via arev med matchie		via siteto (na sampla)
D		hadian		15.75	45.40		mulaba	aerbu brown	•	The state (no sample)
NUR Z		proxen	0.04	15,45	15,49	·	muusui	cally brown		India triggent (carph) barging tee grad
			0.07	15.49	15,58	4	coatioss			
t		broken	0,65	15,55	16.42	2	coal	cican black		cican coal y hard ,
t			0.14	16.42	16.55	3	rock loss			
Run 3		broken	0,43	16,56	16,99	3	នៅនេះរា	muddy vig grey med massive		sitsta parting rec 2,10
			0,43	16,99	17.42	3	rock loss			
·			0.05	17.42	17.47	4	coal loss			
		broken	0,78	17.47	18.23	4	coal	clean black		clean coal v smail pyrite bands
		broken								bottom of sample calcite @ top
		broken		16.23		5	mudsta	carby brown	•	Floor - more carby @ top of very bottom 0.20 m taken pyrite zone
Run-i		blocky					55 -	vig well grey med thin		Interbed ss/sitstn 70/30 rec 1.87
		blocky					sitstn	to orey dark y thin		Interbed ss/sitstn 20/80
Run 6		broken					**	via well prev med v this		Informed styletistic 70/30 rep 2.32
Rimé		broken					*0	vfg well grey med y thin		Ald some owile black sec 2.15
Ren 7		broken	·			1		vfrutel crev med v this		
Dun D		broken				1	**	via unit area med u this		
		broken					**	All Ance Recht meer A fint		
Ruan 9	20	DIOCKY					<b>&gt;&gt;</b>	Ald Mail Break then a mine		
Kun 10		DIOCKY					55	vig grey light v thin	-	root vig ss A/A red 2,20
		broken	0.49	33.42	33,91	6	coat	ciean Diack		swar barod 3 cm @ tob
		broken								Girly @ base of sample
		broken					sitstn	vig well grey med y this	•	floor interbed sitsin
Run 11		broken			35,12	7	sitsta	vig well grey med v thin	•	roof A/A 0.20 m taken rec 2,15
		broken	0,15	35.12	35.27	8	coal	dirty black		dirty coal
		broken	0.33	35.27	35,60	9	coal	clean black		dean some small daty zones
			0.15	35,60	35,75	9	coal loss			
			0.53	35.75	36.28	8	coal			
		broken		36,28		10	mudsstn	coaly brown -	•	floor carby @ top 0.20 m taken
Run 12		blocky					sitstn	dirty vig grey med v thin		dirty @ top rec 2.10
		blocky					mudsta	carby brown	•	reef mudstn
Run 13		blocky		•	39.13	11	mudsta	carby brown		res 2.89
		broken	0.45	38,13	39,59	12	coal	dirty black		smail parting mudsstn 0.05 m @ base
Rum 13		blocicy		39.59		13	sitstn	dirty arey med y thin	•	floor. D20 m taken vfa siisin
Rusti		enshed					slisto	vfa prev med thin		niarbard szisitete 20080 zec 2.18
		crushed						ng groy mod own		
1		anshed	A 10	13.17	12 87		east	blask		on in the second se
		crusiten	0,20	12.01	43.07		cuar	DIACK		un y dan (cere loss)
1			0.29	43.01	43.80	'*	-U41 1033	heaven -		
1		crushed			14.04	<sub>4</sub>	muuser	DIGME		costà tting heunið
	j		0,62	44,22	44.04	10	CU414053	h ta da		And the second
Run 15		broken	0.20	44.84	45,04	15	CON	DIACK		Leien coal
1		broken					susm	carty vig grey med		carry @ top no sample
J		broken					sitstn	vig grey med v thin		Interbed ss/sitsta 30/70
Run 16	52	blocky					sitstn	fg grey med v thin		A/A 20/80 rec 2.60
Run 17		blocky		•			sitstn	vig grey dark lam		lam sitsts some carby area rec 2.60
Run 18		blocky					sitstn	vfg grey dark lam		A/A rec 2.07
Run 19		blocky					55	vfg weil grey med massive		massive ss rec 1,87
Run 20		blocky					55	vig well grey med massive		A/A rec 2.60
Run 21		blocky					22	vfg well grev med massive		A/A rec 3.04
Run 22		blacky					55	vfg well grev med massive		A/A res 3.06
Due 21		blocky					**	via well oney med marshe		d/A some rights & caleita hands reg 2.14
Dun 24		blocky						via unit const mad machine		rect source pyriod in consists a ESC 4,19
NUR 24	ł	blocky		1			**	The second for the se		The second s
Kun 25		DIOCKY				I .	55	ig wei grey ignt v thin		
		DIOCKY		1		l ·	22	vig wea grey agot massive		Numerous pyrite zones associated with carby zones
Run 20		blocky		1			\$\$	vig wei grey ight massive		SS AVA PYTTE CALCUE FEC 3.00
1	ļ									
1				1						· ·
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HOLE# SITE#	T93D-44	
PROJECT DATE CORE TYPE GEOLOGIST COMMENTS:	Telkwa Sept, 3/93 Angelo	CONTRACTOR DRILLER LOGGING CO, CASING LOGGER

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE#	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
						ĺ	overburden	Î	ŀ	
		verv broken					sttstn	grey med massive	l.	
							ss	fo orev med massive		clean s & p ss overall fining up sequence
4	68						55	ig grey light y thin	SSD	intbed to ss/sitst (85/15) common carb lams dissem pyrite
		broken		,			coat	black		clean hard
		broken				ł	mudstn	grev med massive		
		blocky					mudstn	carb black		coaly N 40% coal
		blocky	0.26	20.05	20.31	1 1	coal	black -		dirty
4		broken	0.20	-20.31	20.51	1	coal	black		clean
		broken	0.07	20.51	20.58	1	coal	black		very dirty platy
5		broken	0.13	20.58	20.71	l i	coal	black		sl dirty
-		broken		20.71		2	mudstn	orev med massive		1
		broken			25.29	3	sitstn	otev med massive		muddy sitstn plant frags throughout roof 25 cm taken
			0.42	25.29	25.71	4	coal	black		clean
			0.15	25.71	25.86	5	coal	black		si dirty
		verv broken	0.29	25.86	26.15	5	coal	black		occ dirty bands up to 1 cm
		blocky	0.01	26.15	26.16	5	mudstn .	black		Very carb
		blocky	0.02	26.16	26.18	5	coal	black		
6		broken		26.18		ftr. 6	sitsta	orey dark massive		floor (25 cm ) sampled dirty
7			0.03	28.74	28.77	7	coal	black		very dirty pyrite banding win
ľ		broken	0.30	28.77	29.07	7	coal	black		clean except for common pyrite banding near top
7	70	blocky			31.08	Foot 8	sitsta	orev med massive		some intbed via ss (N10%) dissem pyrite throughout roof
ľ.		blocky	0.15	31.08	31.23	9	coal	<b>S</b> - <b>J</b>		
		blocky	0.02	31.23	31.25	9	mudstn	carb black		
		verv broken	0.22	31.25	31.47	10	coal			· · ·
		blocky	0.02	31.47	31.49	10	coal			pyrite thin bands
		broken	0.93	31.49	32.42	10	coal			sl dirty zones .01 cm mudstn @ base
		broken	0.28	32.42	32.7	11	coal	black		clean
8/33.5		crushed		32.7		12	mudstn	· · · · · · · · · · · · · · · · · · ·		carb (2) top floor
			0.00				\$5	carb grey		coal rip ups throughout dirty
			0.00				mudstn	grey dark massive		coaly @ base
			0,00			· ·	sitsin	grey dark massive		dirty
			0.00				coal	black	1	· ·
1	70		0.00				SS	sity vig grey med v thin		intbed vig ss/slist (70/30) siltier @ top & gradational to slist near base
13/54.9			0,00				sitstn	grey med v thin	1	intbed vfg ss/sitst (20/80)
					56.63	13	sttstn	grey med v thin		A/A some taken @ base
			0.06	56,63	56.69	13	mudstn	grey dark		very carb mudstn root
		blocky	0.25	56.69	56.94	14	coal	black		pyrite banding up to 0.5 cm
		blocky	0.22	56.94	57.16	14	coal	black		clean
13/57.9		crushed	0.33	57.16	57.49	14	coal	black		clean
		broken	0.02	57.49,	57.51	15	mudstn	grey light		
14		broken	0.63	57.51	58.14	15	coal	black		clean
		broken		58.14		16	mudstn	grey dark		floor plant debris throughout
1		broken			59.87	17	mudstn	grey dark		roof 25 cm sampled A/A
			0,06	59,87	59,93	18	coal	black		pyrite banding throughout *
14/61		broken	0,57	59,93	60,5	18	coal	black	l .	clean hard *
I .			0,05	60,5	60,55	18	coal loss			
1			0.06	60,55	60,61	19	coal loss			
1		broken	0.60	60,61	61.21	19	coal	black		clean hard si dirtler @ top
1				61.21		20	mudstn	carb grey dark		floor 25 cm sampled
1		broken			1	1	mudstn	carb black	.	initied thin coals (up to 5 cm) & coaly/carb mudsin
1		broken				1	sitstn	grey med massive		••••••••••••••••••••••••••••••••••••••
16/67,1		very broken					mudstn	carb grey dark massive	· ·	platy

Page 1

## T93D-44

Page	2
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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE#	ROCK TYPE	DESCRIPTION	SED STRUCT.	INOTES
							mudstn	grey dark	1	
							mudstn	black		very carb N 35% coal
	•	broken	0.08	67.61	67.69	21	coal	black		clean
		-,	0.20	67.69	67.89	21	coal loss			vivuii
		broken	0.22	67.89	69.11	24	coal	black		si dirtu nurite handing @ hase
,		broken	0.22	07,05	CD 40		coal	black		si diriy pyrita barionig 🕑 basa
		DIOKEN	0.05	00.11	00'13	21	coal	Diack		
		DIOCKY					sitstn	grey dark massive		dinier @ top
	70	blocky					sitstn	grey dark v thin		Intbed vig ss/sitst (25/75)
		blocky	1				SS	vig grey light v thin		A/A (80/20) roof
		blocky	0.24	73.05	73.29	22	coal	black		clean
			0,33	73,29	73.62	23	mudstn	carb grey dark massive		
1			0.03	73,62	73,65	23	rock lass			
17	1	broken	0.26	73.65	73.91	24	coal	black		occ pyrite si dirty
17		blocky	0.39	73.91	74.3	25	coal	black		clean hard
18		,	0.42	74.3	74.72	26	coal	black		oce dirty handlag
10			0.01	74.70	74 73	26	mudeto	brown massiva		dee and balang
10		broken	0.04	74.72	76.67	27	11111301 11111301	black		ditt. zapaz
10		ptoyett	0,04	75 67	70,07	41	coal	Drack,		dirty zones
			0,43	15,57	70	28	muasm	dieh gauk		
			0,04	76	76.04	28	rock loss			
			0,06	76.04	76,1	28	mudstn	black		coaty
			0.09	76.1	76.19	29	coal	black		dirty
			0,63	76.19	76.82	29	coal			
			0.99	76.82	77.81	30	coal	black		
i i			0.03	77.81	77.84	31	coal loss	1		
		•	0,15	77,84	77,99	31	coal	black		intbed dirty coal/clean coal occ carb mudstn (80/10/10)
		,	0.13	77.99	78.12	32	mudstn	carb black massive		floor
19/79.3	71	broken	0.65	78.12	78.77	33	mudstn	carb grey dark massive		plant debris throughout roof sampled
		broken	0.87	78.77	79.64	34	coal	hlack		
		Blowen	0.00	79.64	79.73	34	coolince	J ALGIN		· ·
		biasia	0.03	70.72	70.74	24	cuar 1035	h hak .		disks @ fines contact
		DIOCKY	0.01	70.74	78.74	34		black	·	dirty IB light colleast
		Droken	0.00	19.14	00.24	30	muasui	caib grey dark massive		prung
				60.24	00.3	35	TOCK IOSS			
			0.38	80,3	80.68	36	coal	Drack		si dirty pyrre banding
			0.64	80.68	81.32	37	coal	black		clean pyrile banding
		very broken		81.32		38	sitstn	grey med		some inted vig ss/sitstn (20/80)
21/88.4		broken					sitstn	grey med massive		mainly massive sitstn ss/sitstn = (20/80) roof sampled
21		biocky		•	88.18	39	mudstn	sity grey dark massive		silty @ top plant debris
		blocky	0,15	88.18	88.33	40	coal	black -		pyrite banding dirty
		-	0.07	88.33	88,4	40	rock loss			
		biocky	0,02	88.4	88.42	40	sitstn	grey med		
		broken	0.33	88.42	88.75	40	coal	black		si dirty throughout
1		verv broken	0.10	88.75	88.85	41	mudstn	cath black		niaty
4		hroken	0.32	88 85	89 17	41	coal	htack		si dirty
		blocks	0.02	89.17	89.7	41	sitein	drew		or winty
		DIVENY	0.00	80.2	80.25		took loce	18°57		
· ·		616.00	0.00	03.2	00.20	40	1000 1033	htaale		aline base
		вюску	0.02	09.20	80.08	42	GOGI .	Diack		ciean naro
			0,06	90.08	90,14	43	mudsin	Caro Diack	· ·	
22		blocky '	0.23	90,14	90,37	43	coal	black		si dirty thin mudsta banding
		<b>^</b>	0.04	90,37	90,41	43	coal loss			
22/91.5		blocky	0.57	90.41	90,98	44	coal	black		clean hard
		blocky	0.01	90,98	90,99	45	muðstn	grey dark		
22		blocky	0,76	90,99	91,75	45	coal	black		clean hard
22		blocky	0,07	91,75	91.82	45	coal	black		mudstn banding w/in
				91.82		46	sitsto			floor
22/07 6		blocky		01.02			élteto	atey med y this		inthed vfa co/clicta (40/60)
20101.0		DIOCKY				1	altate	grey med y this		niwod vig aaralistii (40/60) A (a (16/15)
24						1	ເມ	Hist we and a run	· ·	(WK (23/10)
29/120.0						1	55	ig weil grey med massive	l '	occ carb rams breaves spread throughout the unit up to 6 cm in length #2 ss
						1				
						]		ŀ	-	· ·
						1				

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	HOLE # SITE #		733D-48									
	PROJECT DATE CORE TYPE		Telowa Sept. 3/93			•		CONTRACTOR DRILLER LOGGING CO.			· · · · · ·	
	GEOLOGIST		Angelo				•	CASING			•	
								LOGGER			•	
	COMMENTS:											
			0000 00.000		20.411		Tangar	IDGOV D.GO	155, 45,0100 ···	1010000000		
	BUX MARK	BUR	URESIAIE	INTERVACIEN (	FRUM	10	GAMPLE I	ROCK THE	DESCRIPTION	SCU SIRUCI.	NOIES	
	.							overourcen	and did in and in			
	2		oroken					5050	prey dank massive		WEALWERG	
	י ו		oroken					muqsn	DISCK	1	costy mutatin costler (3) pase	
	.							muasar	prey med massive			
	ן יי					1		mudstri	carb black		COBY N 10TH COBI	
			crushed	0.14	44.00	44,22		¢081	DIRCK		And and	
			broken	0,15	44.22	44.37	1	mudstn	grey med massive	· ·		
				0.05	44.37	44,42	1	¢081 (089	I			
			broken	0.15	44.42	44,57	1	C081	black		*	
•	i I		broken	0,19	44 57	44.76	2	mudstra	grey light		bestontic	
			blocky	0,14	44.76	44.9	3	coal	black		clean	
			blocky	0.03	44.9	44,93	3	C081	black		dity	
				0,09	44,93	45.02	3	coal loss				
	1/45 T		very broken	0.12	45 02	45,14	3	çoal	black		st dity	
			broken	0 99	45,14	45 13	4	çosi	black	1	clean	
			very broken		46,13		5	mudstn	carb black		minor intod cost	
	37		broken	0.00				mudstn	sty grey dark massive		siler lowards base	
	3/51,8		broken	0.00				ststn	grey med mossive			
	3			0 00				ststa	cerb grey med very thin		initial thin costs (<) cm) & carb lams	
	3/54.9			0.00		1		mudstn	grey med massive		st sily .	
				0 00				ststa	grey med massive			
	4 1		blocky	0.00				55	ig well grey light mossive		overal (ning up sequence	
	4 1		broken			58.17	8	stan	grey med massivo		abrupt contact with cost roof	
			•	0.06	58,17	58,23	1	coal	black		clean	
				0.03	69 23	69,26	7	606l	black		pyrite bonding	
	I			0.04	58.26	58.3	7	cosi	black	1	[clean hard	
				0.04	58,3	58 34	1	coal	4		daty 1	
	E			0 02	58 34	58,38	7	mudstri	brown		mudistin cost and pyrite banding	

			0.03	69 23	69,26	7	coal	black		pyrite bending
			0.04	58.26	58.3	7	coal	black		clean hard
			0.04	58,3	58 34	7	coal	1		lony . *
			0 02	58 34	58,38	7	modstri	brown		mudsta coal and pyrile banding
			0.03	59 35	58,39	7	coal loss			
			0.04	58.39	58.43	B	cost loss			-
			003	58.43	58.48	B	coal			
		onuched	6.24	59.45	68.67	R	Cont			
		000.00	000	69.67	59.69	Ř	lende inea			
		waar baakaa	0.02	58.69	58.78	Ř	muteo			•
e		vary broken	070	59.79	69.51	ŏ	coal	black		dety bands
·		1013 (1010)	0.0	59.51	59.55		cost bar			
			001	69.65	69.58	15	stato	orey.		
			0.05	59.59	69.64	1.0	coal loss	***		
			015	50.64	6	1 10	coal	Neel		
e 199 1 10	·			20	i ~~	11	etete	oray marriya		
0010			0.60	~			audda	grey massive		
			0.00				real and a second secon	blaste		
							eteto	active med manable		
			0.00			t i	34501	prey med mostare		
		hasture	000			1	COBL	and a more and a samples		
		proken	000			i i	55	vig prey med messive		
.		Droken	000				muqsars	Carb Clack		
	- 12		0,00				S LSUI	prey meo v thei		FLOU TID SENESSI (12003) CCC CETO ZONAS BERLY MER COSA
		prosicy	000				23	13 MAR GLAA DOLY LUDSELAR	1	Central name 5 w h as a new with a way occurred rank common elvariae horizona (up to 5 cm enviras brooghout)
11/112.3		вюску	000				arsen	say well grey med massive	1	CHAR BLSS W CONTROL DIPONES WA
1//112.0		DISCRY	0.00		1		85	13 Mea Grey mea mossive	1	Canada S. A. Y. Kasa Marke decun narizon divaries up to o cm
		DIOCKY	000		1		13	ng well grey med messive	1	
		DIOCKY	000	1	1		C031	DISCK	1	In day of the second seco
~	82	Diocky	0.00		1		**	vig grey med v ann		NEO VIJ SEMESTA (VUTO)
		Diocky	0.00	1	1	12	muason	Carb black	1	very coary in 45% coar lower 10 cm pyrte beox
		DICCKY	0.00	1.	1		muastn	Carb Disck		coex in Some coel
		blocky	0,00		1.		coal	black	1	clean hard
					1		mudstn	carb black massive		cau bing teal province
		blocky		1	1	,	mudstn	grey light mossive	1	voicenio ludi mudsin w occ carb bieba haina form around carb/extraneous bieba
22/135.7		blocky			1		85	c of green med massive		eversă fining up é â es med up ef volcenie well rounded rock fregments grains up to 2 mm
/143.3		blocky			1		congi	green massive	1	metro/pebbles = 35/65 metrix =cg as A/A pebbles=v well rounded ranging up to 10 cm avg=2.5 cm made up of volc buff A/A /volc rock tragments/sodimentary rx (10/50/40) TD
				1					1	
					1		1	1	1	
				1	1	I	1	1	1	
					1	1	1	I	4	

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Page 1

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HOLE#	

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T93D-47

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SITE #

PROJECT DATE CORE TYPE	Telkwa Sept. 3/93	,	CONTRACTOR DRILLER LOGGING CO,
GEOLOGIST	Angelo -		CASING
			LOGGER

#### COMMENTS:

122

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	<u> </u>	SAMPLE #	ROCK TYPE	DESCRIPTION	ISED STRUCT.	NOTES
1						1	overburden			
	20						elteta	grav mad massiva		The user this use store that a
I. I	30					1	SILSU	Sich lien lissing		ing act and all 22 intra (Chich
5		Droken					ទនេបា	grey med massive		Divarye death honzon shea mags up to 2 cm x 10 cm
7		broken					sitstri	grey med massive		overall fining up near base unit grades in vig ss @ times common bivalves
7/39.6		broken					\$\$	sity vig well grey med massive		dirty ss w common volc rocky ash clastics w/in esp near base
97	27	broken					58	egr pour grey light thin		Interbd so/carb mudst 90/10 ss=poorty sorted w common vole rock frags up to 1cm rock frags= tuff and reworked tuff
		broken					55	fa well arey Sont thin	1	Interbd ss/sitst 80/20 occ blvalves
1								fa well arey light marshe		busive death borizon we to 5 cm shall from
1	47	healing						uda und grav Eakt measter	1	and and model from a first former and a base
ا مسمد		blockett		· ·				and wen fred bed added		
18/69,8		DIGCKY					รแรมา	wei grey med massive		sandy @ top a in occ pwakes win order towards base
20/91.5		broken					\$5	ig well grey med massive	1	sider @ base bivalves up to 5 cm
		very broken					sitstn	grey med massive		
22		blocky					55	fg well grey light massive		clean s & p well sorted ss common blvalves throughout
22		broken					mudstn	grey dark massive		sitier near base
		broken					stistn	orey dark massive		
22		blacky					sitstn	lorey dark massive		by alve death borizon
~~		horizon				1	ellete	arest med maerice		marely a clean storing of the and the story of a set birghan with
i		Master					244241	gicy files inassive		Interstite deal stat gladary dee to vigas ovalves with
		DIOCKY					\$\$	mg wet grey men massive		casizing sola tow ziter @ tob beoph cs 22 @ base
25/113.6	60	broxen					\$5	cg poor grey light massive		carb ss w peoples up to 1cm coal trags & assoc pyrite
		broken					55	fg grey med v thin		initial fg ss/sitst 90/10 bivalve throughout
31/140.1		blocky					s?tst	grey dark massive		oce byaves & gastropods
			•		•	ŀ	55	fg well grey med massive		clean sì carb s & p ss
32		broken				ł	sitst	grey med massive		dirty bivalves w/n
36/159.1		blocky	•				ss	ing med grey med massive		mainly massive work within slist beds up to term sample-colocc bivalves
		broken					**	vio well over light massive		hkake death borizon
1 1		broken					mudeto	area dark		in the type and the test in the test in the test in the test in the test in the test is the test in the test in the test is the test is the test in the test is th
		Diekcii				1		ufa crev med		niko vije sa nisovalo ili usuli
		h-selece.					33	ute unit erest mad marship		suy enoughout unames a bireiro sita negs anougiout
		Diokest					33 muudata	and black		
31		broken				1	muasai	Calo Glack		nimod caro muosveoat N 40% coat
38		broken					sitstn	grey med v this		
							mudstn	carb black		coaly mudstr
		blocky			1		coal	black		clean hard
		blocky					สมประกา	caarb black		
		-			1		mudstn	grey med massive		
		broken			1		mudstn	carb black		y coaly http://mudstry/coal
		broken	0.36	168.81	167.17	1 1	coal	black		dicty cleaner @ hase http://www.st
		broken	0.00			l '	mudeto	orey dark massive		el esta
		broken	0.00	100.03	460.05	l .	ingol i	black		
1		Droken	0,22	105,03	100,25	1 1	COAL	DIACK		any
		broken	0.07	100.25	108.32	1 2	muasu	DIACK		COTÀ
			0.01	169,32	168,33		COAL KOSS	L	1	ļ J
		broken	0.24	169.33	168.57	3	çoal	DIACK	1	· · · · · · · · · · · · · · · · · · ·
		broken	0,02	169,57	168,59	3	sitsta	grey med		
		broken	0,38	168,59	168,95	3	coal	black		dirty @ base
38		broken	0.00				mudstn	carb black		
38/170.7		broken					mudstn	arey med massive		
							eltetra	ney med		initial mudation elicitizant
								Ithin		
		-		l		1	million	carb .		
1 1				t		1	anat a		1	a vosit
1		h		[		1	- the test			
19		Droxen				1	SIGIOT	late A wear A man	1	ធាលថ ចំនួល យកចន់លេខខេត្តអស់មិ 22 10/60/30
			•			1	consim	grey med massive	1	poonly sorted voic conglomerate matrb/clast=100/40 clasts=solo well rounded & up to 10 cm
40/176,8			1	!		1	38	vig grey med massive	1	
40/179,0				1			35	vig grey med massive	1	A/A silier towards base some mg ss @ top TD
			[			1	1	1	1	
i				1		1		1	1	1
				1		1		1	1	
•			•		,			1	,	

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Contractor Driller Logging Co. Casing Logger

#### HOLE # SITE #

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PROJECT	Telkwa	
DATE	Sept. 3/93	
CORETYPE		
GEOLOGIST	Anneto	
0101010101	1.4.2	

T93D-63

## COMMENTS:

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM		SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
·	Î	I	î	Î	ī				1	
							overburden	1	1	
1	1	broken	1	1		A001	sitstn	grey dark thin	1	Intbed vfg ss/sitstn (35/65) non-calo no visible ovrite
1 1	1	blocky	I			A001	sitsin	orey light massive	1	eale (slow sustained fizz)
1/12.2		broken				A002	55	via grey med thin	SSD	Intred vig ss/sitstn 60/40 minor SSD noncate
2/15.2	· 65	broken	1			A003	55	vio crev med thin	SSD	A/A 60/40
	, ‴	bioelor	· 1			A003		vig orev light massive	xhda	non cale no vicible portio
1/19.2		broken			1	4002	elfetra	oray med thin		
4714.3	ا دو	broken				4005	elteto	grey med this	(	NACION DE ANDIRA UNUN
11	03	broken	I		• •	A000	eliand eliato	gray men dat	t	rever exercises the statute printer front exercises of the statute
5074	ł	broken		· •		4007	elinin i	an grow mad months	l.	reaning visuous alauti viti savatast (10080) ris satis nan asta na historia tanta
JIZE	1	broken	I		l.	A007	attavul attavto	as grey med massive	t	nien ise pyrke visible
<b>9</b> ,		broken			· , 1	AUUB	ellete	grey med massive	1	AVA SALIUY
600 E		broken	I		· ·	4000	ellete	ALE A HIGH HIGH AND AND AND AND AND AND AND AND AND AND	1	rvin vve urraints 1901
0/30.3	I	DIOKEN	l l	• I	' I	A009	attain i	grey med massive	۰ ۱	אנא איז איז איז איז איז איז איז איז איז אי
°		broken			۱ I	AUUS		grey fact massive	1	
7/21 6		DIOCKY				A044	ettete	arear mad marchin	1	Tury over addition like
100.0		blocky			· 1	4011	allout I	Bick then wassing	1	ove prine mes assoc carb biobs
: I	·	DIOCKY				A010	enaut i	Manual and Fabra and	1	ryon 
1 1	1	DICCKY				A012	as mudete	and black massive	1	veninum pynic Dieds in 15500 Goay mp-upstoleds
1190'0	1	· 1				4013	inpuss)	black	1	ewi ceay annua nauduhont occ bitta parasitationicos
<u> </u>	ا <sub>د</sub> ا	hank		• I	· [	A013	ogai mudele	and black man-li	1	the seal therein hereing
	04	Droken		· I	· •	A013	alleter i	waith mach in the	1	una svar o jyniko tantung Isha a Jana azartaka (1907) a sa anala bisha disana anala
0/39,0	65	oroxen	,			A014	allata i	grey mea v unit	1	avec will savitari (1 man) oce blute pieta esseu blute uou cate
1	I	proxen				AU14	allata	FireA tuen water	1	ous pyrite preds
<u> </u>	I	broken				AU15	susui	carb grey meg massive	1	rva vu pyste oznacij traudgiout
•		proxen	1	1		A015	ellete l	and dark marshes	1	Pynic beirarg Griy (g) Daso
1	ł	heater	0.00	10.00	11 20	A016	+IISU3 · I	Mark Bark massive	1	pran mays similar pyrite
	i	proxen	0.33	40,86	41.29	8044	regat i	out black	1	as out y particular
<u> </u>		DIOCKY	·			A017	allaba	eard Diack M255NB	1	Very Galu
8	0/	oroxen	· 1	1		AU17	2000	black	1	armen all parareat innan oce cataloosi beas rib to 1 cm ace balle uou cale
<u> </u>		Very Droken	· 1	· 1		A018	ecal i	black	1 •	lu contr
*	I	broken	· 1			4018	allaba i	preview of marchine	1	V uody
10/45,7		proken	' 1			A019	31500 ·	grey meg massive	1	sano auno occuz towardo Dase .
10		broken	· I	•		A019	alista ellete	grey med y units	1	nineerang ssisien (2000)
10		DIOKEN	· I	•		A019	enzus mudete	and block massive	1	NOR GAIG DEG PYTILE DICUS
		oroken	I	ا من مر	ا سمير ا	2019	uuuusun i	Plack ms221A6	1	1
	1	proken	0,43	40.48	40.81	2 A	coal	black	1	ative automatic has dis-
	4	oroken	0.00	10.81	89,99		eoal i	black	1	eury maior pyrist banding
		DIOKEN	0.27	40,99	47,26		CORI I	astd .	1	
		DICCKY	0.01	41.20	41.21	3	ional i	black	1	State & Second multiply throughout
		UTOKEN	0.10	11.41	17.43	· · ·	cost loca 'l	Direct,	1	nerty er vesseur batte anonaluont
	ļ	heater	0,02	17.53	47,40		Cost 1035	black	1	leben bard
1		broken	0.73	47.40	40.10	4	our l	hisek	1	
		DIOCKY	· [	۱ I	1 <b>1</b>	A020	mudete l	search search and search and	1	e and residue to allabe (it has a
1	1	very proken	· I	·	1	A020	mindete i	grey usin massive	1	as carry graemy (0.5(5)) @ U256
· [	Í	very prokéň	· I	·	ן ו	A022	elicio	Grau Babt marchia	1	volution sty zones nos cale
· [		blocky	· I	·	۱ I	A022	aliaus elieto	and any dark manake	1	bi care
		blocky	· I	·	۱ I	A022	alteba	card grey cark massive	1	let rote
11/51 0		DIOCKY	· I	·	1 I	A022	aliaut mudeto	And white the state the	leen	on sare Isabad alexes (mudats /20/20)
12/54.0	•	very proken	· I	·	1 I	A023	elteto	grey daix very cur	SSD	an box sissi (subusts) (subusts) (subusts)
12/04.8	.	uroxen	· I	·	ן ו	4023	aliata	sed oral dark manalis	100	AVA DUC DARA DECOMPANY SHOET (DVATOS DASO
I		Droken		50.00		AV24	anal I	ivalit grey calk massive	1	areas in a reash of contracture of cost cost cost cost cost cost cost cost
13		very proxen	0.25	90.19	00,44	2	eval i	CHACK .	۱.	is out
		DIOCKY	0.01	50,44	50,45	5	sitsut	black	1	
13		DIOCKY	0.07	00,45	50.52		coat ince	DIACK	1	er na tà tân tob
	,	1 I	0,08	00.5Z	56.6	5	coal loss	han an	1	
1J/57.8	1	blocky	0.90	50.6	57.5	6	çoat	Diack	1	cican naro
ľ	• 1	blocky	0,33	57.5	57,83	6	coat	DIECK	1	NA I
		broken	0.70	57,93	58,62	Ĩ	coal	E BIRCH	1	1
· 1		1 <u>.</u> 1	0.03	59.62	58.65	7	coal loss	1	Į.	
1		broken	0.04	58.65	58.60	0	mudstn	grey med	l	pyroclastic ash layer
<u> </u>		1 . 1	0.00	58.69	58.72	9	coal loss		l	lumina di m
13	l	very broken	0.96	58,72	59,60	9	coal	Diack :	4	isi dirty & platy @ top 20 cm

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.

		blocky	0,19	59.68	59,87	8	(mudstn	black
14/61.0		broken	0.65	59.87	60.52	10	coal	black
-		blocky	0.13	60.52	60,65	10	coal	black
		very broken	0,95	60.65	61,6	10	coal	black ·
		broken	0,17	61,6	61.77	11	coal	black
			0.24	61.77	82.01	11	coal loss	
14		broken	0.02	62.01	62.03	11	stistn	grev dark
			0.04	62.03	62.07	11	coal loss	···· · · · · · · · · · · · · · · · · ·
	, i	blacks	0.04	62.07	62.88	44	coat	black
		blaster	0.01	82.00	67.00	14	anal	black
1		bioLky	1,00	, uz,oo	02.80	6025	mudeto	black
		broken				6006	allata	
14		Droken				A025	SILSUI	grey dark massive
15		Droken				A026	SICSUL	grey med massive
15		broken	0,06	67,35	67.41	12	coal	DIACK
	1		0,13	67.41	67.54	12	coal loss	
15		broken	0.18	67.54	67,72	12	coal	black
15	1	blocky				A027	mudstn	grey dark massive
						A027	mudstn	carb black massive
16/70.1	70	broken		i i		A028	sitstn	grey dark v thin
16	•	broken				A928	sitstn	carb grey dark v thin
		broken		1		A029	coal	black
		broken		1		A029	mudstn	carb black
		blocky	0.34	71.23	71.57	· 13	coal	black
16/73.2	I .	broken				A030	sitstn	orey med massive
16		blocky				A030 ·	sitstn	grey med y thin
		broken				A031	mudstn	carb black
		blocky	0.17	74.4	74.57	14	coat	black
		blocky	0.03	74.57	74.6	14	eoat	black
i i		broken	0.08	74.8	74.68		teost	black
		broken	0.11	74.69	74 70	17	tree	black
		broken	0.05	74 70	74.84	17	coat	black
		broken	0.05	74.84	74.80	17	coat	black
		broken	0.03	71.00	74.01	1 12	mudeba	black
		LIOKCI	0.02	7/ 01	75.07	1 11	and loss	UNICON .
		harling	0.11	75.00	75,02	1 12	CDAL IUSS	61-41-
		broken	0,13	10.02	19.15	19	coas	Dia Gr
1000		broken		1	]	A032		black thassive
1///9.3	1	Droken			1	AUSZ	135	card vig med grey med massive
		harden a				20032	SI ISUT	ht a sta
	1	broken		1		A032	COAL	Diack
		Droken		<b>B</b> 2 02	70.07	AUSZ	muastin	card brown massive
			0.05	78,82	16,87	15	CO21 1035	
		broken	0,57	10.07	11.44	15	coas	Diack
	1					A033	ss .	caro grey thin
			•			A034	coal	· Diack
						A034	mudsin	silly grey med massive
						A034	mudsin	carb black massive
	79					A035	sitstn	grey med massive
18	1	broken	1	1		A035	sitstri	grey med v thin
18/82.3	1	blocky	1	1		A036	\$\$ <sup>*</sup>	eg poor grey light thin
19/85.4	1	broken	· ·	1		A037	៣រស់នា	sity grey med massive
	1	broken		84.96	85.34	16	coal	black
20/88,4	63	blocky		1		A038	sitstr,	grey med v thin
20/91.5	1	blocky		1		A039	sitsin	grey med v thin
	1		i i	1		1	1	1
	1			1			1	
	1				1		1	

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coaly throughout pyrite banding sl dirty some crushed zones sl dirty inibed coal/sitstn hard clean disty coaly for 1st 0.05 m non cale muddy @ top dissem pyrite dissem pyrite esp @ base non cale dirty 50% rock coaly plant debris intbed vfg ss/sitstn 5/95 A/A Fe nodules coaly plant debris throughout common dirty bands occ pyrite banding intbed vfg ss/sitstn (40/60) non calc coaty mudstn clean hard pyrite banding throughout clean hard very dirty intoed mudstn dirty dirty coaly plant debris sandy sitstn si carb non calc volcaniclastic ash layer inibed cgss/vfg ss/sitstr/mudstri (5/60/30/5) non calc coaly esp towards base occ vig as thin beds up to 1 cm initiad vig as/sitst (45/55) non calc no visible pyrite initiad gas/ig as/situts 50/20/20 channel leg dep non calc no visible pyrite dity @ tog initiad vig as/sitst (45/55) non calc no visible pyrite AVA (25/75) common qtz & calcite fracture fill TD

#### CUTDES93.XLS

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T93R-40C

HOLE#	T93R-40C	,	
SITE #			·
PROJECT	Telkwa Sept. 29/93	CONTRACTOR DRILLER	McAuley Teny and Don
CORE TYPE	, ,	LOGGING CO.	BPB
GEOLOGIST	Angelo	CASING LOGGER	20'
COMMENTS:	Coal in casing zone 2'. Run 5 - core jammed in barr going to shorter runs	3	

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	ТО	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
Run 1		Broken				1	Sitstn, fg	Grey, massive		Interbedded mdstn
		Very broken	0,18	9,43	9.61	1	Coal, dirty	Black		Pyrite bands - mostn partings
Run 2		Blocky					Sitstn, víg	L/grey, massive		Carby layers & pyrite Bands @ 10.52, Rec.2.4
		Blocky	0,44	10.47	10.91	2	Mdstn	D/grey, massive		Silty @ top of sampled roof
		Blocky	0.78	10.91	11.69	3	Coal, clean	Black		Very clean - bentonitic parting @ bottom
		Blocky	0,34	11.69	12.03	4	Coal			Bentonite parting @ top mdsn @ bottom
										Both partings = 3cm + 2 cm
Run 3		Blocky	0,70	12.03	12.73	5	Coal '			Dirty zones - parting @ bottom mdstn
			0,02	12,73	12.75	5	Rock Loss			
	· ·	Blocky	0.40	12.75	13.15	· 6	Dirty coal			Dirty zones @ bottom
		Blocky		13.15	×	7	Sitstn, vfg	L/grey, thin		Floor - mdstn @ top 5 cm20 taken
-										intebedded sitstn/mdstn @ base
Run 4	70	Blocky					Sitstn, fg	L/grey, thin		Interbd ss/sitstn 20-80 rec, 2,44m
Run 5		Crushed					Sitstn, fg	L/grey, thin		A/A 30 - 70 rec. 2.30m
3		Crushed					SS, fg	L/grey, massive		Well cemented - very hard
Run 6		Broken					SS, fg	L/grey, thin		Intebd ss/sitstn 60-40 rec. 1,66
										crushed or fractured @ base
		Broken					SS, fg	Ugrey, thin		AVA
		<ul> <li>Broken</li> </ul>					Sitstn, fg	D/grey		Very fractured - crushed zone - calcite zone
		Broken					SS, fg	L/grey, thin		Interbd ss/sitstn 60/40
Run 7	78	Blocky-					SS, vhard, fg	L/grey, thin		A/A 70/30 - some fractures; rec. 2.06m
										Some carby layers < 1 cm cont. leaf imp.
Run 8		Blocky					ISS, vfg	L/grey, thin		A/A 50/50
	1	Crushed					Coal, dirty	Black		Dirty coal - no sample taken
		Broken					Mdstn	Black		Carby mudstn
		Blocky					Sitstn, fg	L/grey, vthin		Interbd sitstn/mdstn 80/20
Run 9	1	Blocky	· ·				Sitstn, vfg	Ugrey, vthin		A/A 80/20
		Blocky				· ·	Sitstn, vfg	Grey, massive		Vthin bedding @ base
		•	•						1	Fractured zone @ 28.85 - mdstn filled
Run 10					29.39	8	Sitstn, vfg	D/grey, massive		Roof - víg sitstn
			0.96	29.39	30.35	9	Coal	Black		Dirty zones - some pyrite @ base
				30,35		10	Sitstn, vig	L/grey, vthin		Floor - mud @ top .20 taken
Run 11							Sitstn, víg	L/grey, vthin		Fractured zone - some calcite filled - rec. 1.34
							L			Some muddy layers
Run 12							Sitstn, fg	M/green, thin		Interbd ss/sitstn 20/80
							SS, fg	M/green,thin		Interbd ss/sitstn 70/30
			0,15	34,34	34,49	11	Coal, dirty	Black		Dirty zones
	1		1.04	34.49	35.53	12	Sitstn, vfg, dirty	Ugrey, massive		Roof, mdstn @ base .20 taken
	1		0.06	35.53	35.59	12	Rock Loss			
[	1		0.20	,35.59	35.79	[ 13	Coal, dirty	Black		Top of coal zone pyrilic

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# T93R-40C

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE#	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
			0.70	35.79	36.49	14	Dirty sitstn, vfg	L/grey, massive		Roof of 2 seam20 taken
			0.13	36.49	36.62	14	Rock Loss			
			0,79	36,62	37.41	15	Clean Coal	Black		Clean bentonitic parting @ top 1 cm
_					.					Mdstn parting @ base lens
			0.28	37,41	37.69	16	Mdstn	Brown		Mdstn parting - pyrite blebs throughout
	1	1	0,03	37.69	37.72	17	Coal Loss			
		1	0,79	37.72	38.51	17	Coal	Black		Clean - mostn parting 2 cm @ base
Run 14				38,51		18	Sitstn, vfg	D/grey, massive		Floor - vig sitstn .20 taken - Rec. 1.90
							Sitstn, vfg	D/grey, vthin		Crushed zones - calcite @ base
Run 15							Sitstn, vfg	D/grey, vthin		Interbd ss/sitstn 10/90 - rec, 1,55
					1		Sitstn, dirty, vfg	D/grey		Very fractured zone
										Bentonitic mdstn parting @ base
Run 16					ł		Sistn, vfg	L/grey, massive		Fractured zones
1							Sistn, víg	L/grey, massive		Solid v. hard
					-		Sistn, vfg	L/grey, vthin		Interbd ss/sitstn 10/90
Run 17							Sitstn, vfg	L/grey, vthin		A/A ·
							Sitstn, vfg	L/grey, massive		Sitstn with mostn parting 8 cm @ base
						۰ ،	Sitstn, vfg	L/grey, vthin		Interbd ss/sitstn 5/95
Run 18 '					]		Sitstn, vfg	L/grey, vthin		A/A 40/60
Run 19					49,93	19	Sitstn, vfg	Ugrey, vthin		Roof, intbd ss/sitstn 40/60 mdstn @ base Sample = .20m
			0,92	49,93	50,85	20	Coal, clean	Bik		Pyrite band @ top of sample 7 cm
Run 20			0.72	50.85	51.57	21	Coal, clean	Blk		Small mostn parting near base - rec, 2.20
			`							2 cm.
			1.48	51.57	53.05	22	Coal, clean	Bik		Small mostn parting .02 from top
Run 21			0,09	53,05	53.14	23	Coal, dirty	Bik *	-	Very dirty @ base - rec. 2.10
			· 0.71	53,14	53,85	24	Sitstn, víg	D/grey, vthin	1	Parting
			0.23	53,85	54.08	25	Sitstn, carby, vfg	D/grey, vthin		Coaly sitstn
21		Blocky	0.88	54.08	54.96	26	Coal, clean	Black		Clean coal
	1		0.11	54.96	55.07	27	Coal loss	•		· ·
22	1	Broken	0.52	55.07	55.59	27	Coal, clean	Black		A/A - Rec. 1.60
		Broken	0.39	55,59	55,98	28	Coal, dirty	Black		Very dirty - mdstn parting @ base
			0,05	55.98	56.03	28	Coal Loss			
		Broken	0.70	56.03	56,73	29	Coal, clean	Black		Clean coal
23		Broken	0.58	56.73	57.31	30	Coal, fractured	Black		V. fryable
r.			0,12	57,31	57.43	30	Coal loss	· ·		
		Broken	0,82	57,43	58,25	31	Coal, clean	Black		Clean coal
		Broken	0.10	58.25	58.35	32	Mdstn	Grey		Bentonitic mostn parting
,		Broken	0.50	58.35	58.85	33	Coal, clean	Black		Clean Coal
			0.25	58,85	59,10	33	Coalloss			
		01	0.31	59.10	59.41	34	Coalloss			
24		Broken	0,87	59,41	60.28	. 34	Coai, diny	Black		Mostn laminate - rec. 2.80
		Broken	0,02	60,28	60.30	34	55	Васк		
		Broken	0,40	60,30	60.70	34	Coal, dirty	Black		very airty
		Broken	0.00	C4 40	64.49	05	Procks	Diack		h Hanna a Hada a
		Broken	0.30	01.13	01.43	35		ыаск		very airty
		Derlinet	0,06	01,43	01.49	36		01-01-		A dama a dina a
25	'l .	Bloken	0.45	61.49	61.94	36	Coal, dirty	ыаск		Very airty .
· ·		i `								Did not sample tioor.
I .	l I	I	<b>I</b> .	l	ι.	I		l	I	Core parreii lett in overnight

T93R-40C

Sitstn - Interbd ss/sitstn Filoor	BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES	-
Floor											Sitstn - Interbd ss/sitstn	
	•										Floor	

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HOLE # SITE #		193R-41C								
PROJECT		Telkwa						McAuley		
		Sept. 30/93						RPR		
GEOLOGIST		Angelo					CASING	20'		
020200101				•			LOGGER	•		
COMMENTS:		Run 14 - 1' left dow	wn hole on Run 13 - g	got .28.m of	it on 14 for t	otal of 2.70m				
										NOTES
BOX MARK	BCA_	CORE STATE		FROM		SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	
Run 1		Blocky					Sitstn, fg	M/grey, vthin		Fe stained in fractures rec. 1.30
										Interbol ss/sitstn 20/80
Run 2		Blocky					Sitstn, fg	M/grey, vthin		A/A ss/sitstn 40/60
Run 3		Crushed			•		Sitstn, fg	L/grey, massive		
Run 4		Blocky					SS, fg	L/grey, thin		Interbd ss/sitstn 70/30
Run 5	1	Broken					SS, fg	L/grey, thin		A/A ss/sitstn 60/40
Run 6		Blocky					SS, fg	L/grey, thin		A/A
Run 7		Crushed	· ·				SS, v.hard	L/grey, massive		Very hard ss - in crushed zone -
						1	1'	1	1	b-t-state - t-thete polyo

									Interbd ss/sitstn 20/80
Rup 2		Blocky					Sitstn, fg	M/grey, vthin	A/A ss/sitstn 40/60
Run 3		Crushed					Sitstn, fg	L/grey, massive	
Run 4		Blockv					SS, fg	L/grey, thin	Interbd ss/sitstn 70/30
Run 5		Broken					SS, fg	L/grey, thin	A/A ss/sttstn 60/40
Run 6	1 1	Blocky			1		SS, fg	L/grey, thin	A/A
Run 7		Crushed	•				SS, v.hard	L/grey, massive	Very hard ss - in crushed zone - calcite
Run 8		Blocky					ss	L/grey, thin	Interbd ss/sitstn 60/40
Run 7		Blocky					Sitstn, fg	Ligrey, thin	Interbd A/A 30/70
, cuir r		2,221,9							Some mudstn lams
Run 8		Blocky					SS, vfg	M/grey, thin	Interbd ss/sitstn 60/40
Nullo		Distriy					· -		Some carby lams
Run 9	1	Blocky	;		1	1	SS, vfg	M/grey, thin	A/A
Run 10		Blocky					SS, vfg	M/grey, vthin	Interbd ss/sitstn 20/80
I Con To		Blocky	•				Sitstn, vfg	L/grey, massive	Very hard coarse ss
	-	Blocky					SS, v.hard, fg	M/grey, thin	Interbd ss/sitstn 20/80
Run 11	•	Blocky					Sitstn, vfg	M/grey, massive	Very hard zone @ bottom l/grey
		Blocky					Sitstn, vfg	M/grey, thin	Mudstn lams
Rup 12		Blocky					Sitstn, vfg	M/grey, thin	Interbd ss/sitstn 20/80
Run 13	1	Blocky		1		<b>\</b>	Sitstn, vfg	Migrey, thin	A/A
Run io .		Blocky					Sitstn, vfg	M/grey, thin	Vfg sltstn
		Blocky					Sitstn, vfg	D/grey, massive	Caicite bands
		Blocky					Sitstn, vfg	L/grey, massive	Vfg sitstn
Run 14		Blocky					Sitstn, vfg	D/grey, massive	A/A Calcite @ top
							SS, v.hard	D/grey, massive	Very hard well cemented
							Sitstn, vfg	L/grey, massive	
4		ł			Į.	ļ	Sitstn, fg	Ugrey, massive	Calcite fill and top of sample
Run 15		Stick					SS, vfg	M/grey, thin	Interbd ss/sitstn 60/40 - Rec. 2.30
						*	· · ·		Turning sity @ bottom
Run 16	78	Broken					Sitstn, víg	D/grey	Sitstn, v/hard zone - rec. 1.86
	10			· ·			Sitstn, fg	M/grey, thin	Bedding lam @ bottom
Rup 17		Broken					Sitstn, fg	M/grey, thin	A/A
							Sitstn, vfg	D/grey, massle	
Pup 18	ļ	Broken		ļ	Į.	ļ	Sitstn. fa	M/grey, thin	Fg sitsin
Kul lo		Diokert					Sitstn. fa	M/green, massive	0.03 zone calcite hard
							Sitsto fo	M/arev. thin	
Bun 10	1	Block			50.72	1 1	Sitstn. fa	M/green, massive	Roof - fa slistn (green)
		LIDONY		· ·		1			Carby lenses - pyrite assoc.
		Crushed	0.26	50.72	50.08	1 2	Coat dity	Black	Dirty coal - clean contact
I	I		1 0,20	00,72	1 00.00	1 4	Loont and		1 1-00,

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
			0.04	50,98	51.02	2	Coal loss		•	
Run 20		Broken	0.38	51.02	51.40	2	Coal, dirty	Black		Some pyrite banding
		Broken					Sitstn, dirty víg	D/grey vthin		Interbd sitstn/mdstn floor - not sampled
		Broken					Sitstn, vfg	M/grey, vthin		
Run 21	82	Blocky					SS, vfg	Ugrey, thin	,	Interbd ss/sitstn 70/20
Run 22		Blocky					Sitstn, fg	M/grey, vthin		Turning massive at base
		Broken	0.20	57.08	57.28	3	Mostn, coaty	Black		Mdstn - coal roof
Run 23		Broken	. 0,95	57,28	58,23	• 4	Coal, clean	Black .		Some small pyrite zone @ top 8
			0.02	58.23	58.25	4	Coal loss			
	I .	Broken	0.02	58.25	58.27	4	Mdstn, coaly	Black		Coaly mostn @ base
		Broken		58.27		5	Sitstn, fo	M/grey, ythin		Floor - took .20m
Run 24	1.	Broken					Sitstn, fg	M/grey, ythin		A/A
	•	Broken			59,69	6	Mostn, coalv	Black		Roof - coaly mud
		Broken	0.73	59.69	· 60.42	7	Coal, clean	Black		Small pleb of pyrite @ top 2 cm.
		Crushed	0.63	60.42	61.05	8	Coal, clean	Black		A/A - small pyrite zone
			0.03	61.05	61.08	8	Coal loss		, i	
Run 25		Broken	0.74	61.08	61.82	8	Coal, clean	Black		Small pyrite band @ base
		Broken		61.82		9	Sitstn, dirty, vfg	L/arev. vthin		Floor - mud @ top - sity @ bottom
		Broken					Sitstn. vfg	L/orev. vthin		Some mdstn lenses
Run 26		Blocky					Sitstn. fo	L/grev. ythin		Interbd ss/sitstn 20/80
ľ.		Blocky					SS, fg	M/green, massive		
		Blocky					Sitstn. fa	M/grev. vthin		interbd ss/sitstn 20/80
Run 27		Blocky	•				Sitstn, fg	M/grey, ythin		A/A 30/70
		Blocky					SS, vfg	M/grey, massive		
	60	Blocky					Sitstn, fa	M/grev, vthin		Inerbd ss/silstn 30/70
Run 28	•	Blocky					Sitstn, fg	M/grey, vthin		A/A 40/60
Run 29		Blocky					Sitstn, fg	M/grey, vthin		A/A
										Pyrite and calcite zone near base
Run 30		Blocky			75.80	10	SS, fg	M/green, thin		Roof ss/sitstn 70/30
		Blocky	0,51	75,80	76,31	11	Coal	Black		Dirty @ top, small pyrite
			0.06	76.31	76,37	11	Coal loss			
		Crushed	0.80	76.37	77.17	11	Coal			Bentonitic at bottom 3 cm
		Blocky	0,54	77.17	77.71	12	Coal, clean	Black		Vhard clean coal
Run 31		Broken	0.81	77.71	78.52	13	Coal, clean	Black	x	A/A
		Broken		78.52		14	Sitstn, vfg	M/grey, vthin		Floor .29 taken sitstn - dirty @ top
Run 32		Blocky					Sitstn, vfg	M/grey, vthin		Interbd sitstn a/a
		Crushed	0.14	81.58	81.72	15	Coal, clean	Black		Coal stringer
Run 33		Blocky	0,00				Sitstn, vfg	D/grey, vthin		Interbd ss/sitstn 10/90
Run 34		Blocky			86.20	16.	Sitstn, vfg	D/grey, vthin		Roof a/a dirty @ bottom
		Blocky	1.28	86,20	87.48	17	Coai, clean	Black		Small < 1 cm - mdstn @ top
			* 0.12	87,48	87.60	17	Coal loss			
Run 35		Broken	0.10	87.60	87.70	18	Coal, dirty	Black		Bottom of last sample
		Broken	0.67	87.70	88.37	19	Sitstn vtg	M/grey, massive		Parting
		Broken	0.77	88,37	89.14	20	Coal	Black	ļ	Dirty @ top - pyrite banding
										Bentonitic and bottom 3 cm
	1	Broken		89,14		21	Sitstn, vfg	M/grey, massive	1	Floor, Dirty @ top - 20 cm taken
Run 36		Broken					Sitstn. vfa	M/grev, massive		A/A
		Broken			1		Mdstn. coalv	Black	1	Mdstn
	· .	Broken				1	Sitstn. vto	M/grev, massive		Vfa sitstn
		Broken					Mdstn. coalv	Black		Mdstn
1	ł.	1	I	i	I.	1	Lungeril anon	1-1200	1	1

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	то	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
		Broken	1	· · · -	1	ľ	Sitstn, vfg	M/grey, massive		Vfg sitstn
		Broken					Coal, dirty	Black		Stringer - no sample
		Broken			i `		Sitstn, vfg	M/grey, massive		
Run 37		Blocky			1		Mdstn ·	Brown		Mdstn, some carby zones
•		Blocky					Sitstn, vfg	M/grey, lam		· · ·
Run 38		Blocky	•		94.32	22 .	Sitstn, vfg	M/grey, lam		Roof, silty - ,20m taken
		Blocky	0.59	94.32	94.91	23	Coal, clean	Black		Some pyrite banding @ bottom
		Blocky		94,91	1	24	Sitstn, vfg	M/grey, ythin		Floor - 20m taken
Run 39	78	Blocky			1	· ·	Sitstn, fa	M/grev, thin		Interbd ss/sitstn 40/60
Run 40		Blocky			1	1	Sitstn, fa	M/grey, thin		a/a some calcite zones
		Broken			1		SS, vfg	M/grev. thin		Numerous concretions
Run 41		BLocky					SS. vfa	L/arev. thin		Interbd ss/sitstn 70/30
		,			· ·		1	-3,,		pyrite hields - in top half
Run 42		Blocky					SS. vfa	1./arev. thin	•	A/A ss/sitstn 70/30
Run 43		Blocky					SS vfa	l /orev thin		A/A calcite and pyrite zones
Run 44		Broken	2				Sitstn, vfa	1 /orev massive		Above coaly zone
		Broken	0.20	111.20	111.40	25	Coal dirty	Black		Very dirty small stringer
			0.12	111.40	111.52	25				Yery and, and angel
		Blocky	1.02	111.52	112.54	26	Sitstn	Unrev		Dirty @ base turned to most near coal
			0.00				·	- 31-7		20m taken
		Blocky	1.02	112 54	113.56	27	Coal clean	Black	· ·	Clean coal, small pyrite band pear top
			0.04	113.56	113.60	27	Coal loss	Diddit		orean open, eman pyrice barre neer top
				113.60		28	Sitstn. vta	Larev ythin		Figure sitste
Run 45		Broken				~~	Mdsta sitv	D/brown		Above stringer pot sampled
		Broken	0.28 .	114 16	114 44	. 29	Clean coal	Black		Small coal zone
		Broken					Sitsto fo	Lorey massive		Between small coal - not sampled
		Broken	0.37	114 78	115 15	30	Coal clean	Black		2 cm bent hand in middle
		Broken					Sitstn fa	L/orev_massive		
Run 46		Broken					SS fo	Lorey massive		
	78	Broken					Sitsto to	L/grey vthin		Internd se/sitsto 40/60
	45	Broken				·	Sitstn fo	Larey, whin		Folded zone, vertical bed
	77	Broken					Sitstn fo	Ligrey vibin	· ·	Vfa sitstn/ss (60/40)
Run 47	1	Crushed		•			Sitsta fo	L/grey vthin		Δ/Δ
		Crushed					Mdstn	Brown		Coaly mudeto
		Crushed	0.30	118.81	119.11	31	Coal dirty	Black		V dity some washout
		0.000.000	0.06	119 11	119 17	31	Coal loss	Biddit		V. only some trashout
		Caushed	0.00				Sitstn dirty fa	l farev		Some calcite
Run 48		Crushed	0.48	120.52	121.00	32	Sitstn dirty fa			
		, ,	0.35	121.00	121.35	32	Coal loss	m gicy		
			0.00	121.00	121.83	33	Coal loss			
		Crushed	0.40	121.00	122.00	33	Coal ditt	Block		
Dun 40		Broken	0,72	121.00	122.20	00	Mdeta alla	Brown		Fland
Null 45		Broken					Choin vin			Piquir Dirette telete
	1	Bioken	0.00	102.67	402.07	24	Gustin, vig	Digrey, vulla		Pyrite blebs
		Bioken	0.20	123.07	120.07	34	Cual, clean	Diack		Smail coal zone
D	}	Deskant			404.00		Sitsin, vig	L/grey, massive		Vig sitstn
	1	Bioken	0.55	104.00	124,02	35	Silsin, vig	jurgrey, massive		Ixoot - AVA .20m taken
1	1	Broken	0.55	124,82	120,37	30	Coal, clean	BIACK		very clean coal
		Broken	0.00		1	3/	ionsin, vig	Ligrey, vinin		Hibor, 20 taken
	1	Broken	0,00		1		55, 1g	L/grey thin .		Iniba ss/silsin (70/30)
Indian .	I	вюску	0.00		1	I	ເວລ ຫຼ	Ugrey, thin	I	IAVA

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	то	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
-		Blocky Blocky	0.00 0.00				SS, fg Sitstn, fg	L/grey, massive L/grey, vthin		intbd ss/sitstn (40/60)
Run 52 Run 53 Run 54 Run 55		Blocky Blocky Blocky Blocky Blocky Blocky	0.00 0.00 0.00 0.00 0.00				Sitstn, fg Sitstn, fg Sitstn, vfg Sitstn, fg Sitstn, fg	L/grey, massive L/grey, vthin L/grey, lam · D/grey, massive D/grey, massive		Intbd ss/sitstn (40/60) SS/sitstn (70/30) Some medium lenses Sitstn AtA
							· · · · · ·			

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## CUTDES93.XLS

HOLE# SITE#	T93R - 43C				
PROJECT DATE CORE TYPE	Telkwa Sept, 3/93	CONTRACTOR DRILLER LOGGING CO.			
GEOLOGIST	Angelo	CASING LOGGER	r		

#### COMMENTS:

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	70	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
Run 1 Run 2 Run 3 Run 4 Run 5 Run 6	57	crushed broken broken crushed crushed	-				sitstn sitstn ss sitstn sitstn sitstn	fg grey med thin fg grey med thin vfg well grey med thin vfg grey med v thin vfg grey med v thin vfg grey med v thin		interbed ss/stistn 20/80 rec 0.40 . A/A rec 0.91 Interbed ss/stistn 60/40 Interbed ss/stistn 20/80 A/A very fractured A/A very fractured
Run 7 Run 8 Run 9 Run 10 Run 11		broken erushed broken broken broken	0.34	19,53	19.87 19.87	1	sisti siistn ss ss mudstn mek lose	vig grey med v thin fig grey med v thin vig weil grey med v thin vig weil grey med v thin coaly brown		interbod ss/sitstn 20/300 interbod ss/sitstn 20/300 ree 1,85 interbod ss/sitstn 60/40 calcite ion ree 2.10 A/Ar aree 2.20 2 coal zones (4 cm - 3 cm)
		broken broken	0.25 0.04 0.39	19,98 20,23 20,27	20.23 20.27 20.68	2 2 3	coal coal loss mudstn	dirty black coaty brown		dirty coal strings . coaly mudsts
Run 12 Run 13		crushed crushed crushed broken	0.00 0.31	21.9	22.21	4	mudsta coal mudsta sitem	coaly brown clean black sity grey dark massive grey ficht within		AVA no sample rec 1.40 dirty @ base & top turning sity @ base
Run 14 Run 15	x	broken broken crushed	0,39 0.20	24.32 24.71	24.32 24.71 24.91	5 8 7	sitstn coat mudstn	grey light massive clean black coaly brown	•	roof luming mud @ base roof 1.11 small dirly zone @ base of sample very crushed mudstn parting roo 1.72
Rum 16		crushed erushed broken	0,10 0,09 0.35 1,10 0.06 0.59	24,81 25,01 25,09 25,44 26,54	25,01 25,09 25,44 26,54 26,6	6 8 9 10	rock loss coal loss coal coal mudstn	dirty black clean black sity brown	•	dirty coal mudstn bands clean coal floor mudstn
		, proxen	0.35 0.37 0.01	27.18 27.55 27.56	27.55 27.55	12 12 13	coal coal loss sitstr	vig grey ignt massive clean black grey light massive	•	roer or paring sign ree 1.49 very clean coal dirty zones @ top & bottom floor 0.20 taken
Run 17 Run 18 Run 19 Run 20 Run 21	65	broken blocky blocky blocky					sitstn sitstn sitstn sitstn \$\$	fg grey Eght v thin fg grey med v thin fg grey dark massive fg grey dark massive vfg grey light massive		hterbed ss/slistn 20/80 some hard bands with calcite Interbed ss/slistn 20/80 ret 2.70 slistn reo 2.95 A/A ret 2.90 SS
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HOLE# SITE#	192R-40C	
PROJECT DATE CORE TYPE	Telkwa Sept. 3/93	
GEOLOGIST	Angelo	CASING

# COMMENTS:

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	ΤÖ	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT	INOTES
Run #1		Broken	0.36	24.24			Sitstn	ID grey thin		70 5 07 5 0 44 0 3 00
						ļ		2, grof, am		19.5 - 57.5 Kun #1 Kec, 2.02m
		Broken	0.59			1	SS ·	Lt. grey, thin		Inthe most ss/siteta (20/80) Eining up everall Erectorel
										Contact w coal
		V, broken	1,07		26.68	2	Coal	Black		Possible loss of expansion
Run #2		Broken	0.99	26,68		3	Coal			87.5-96' Run #2 Rec. 2.5m' Clean, hard
		V. broken	0.07	•		4	Coal	•		Shalv Banding
		Blocky	0.41			4	Coal			Clean, occ. thin diffier coal bands
		Blocky	0.03		•	4	Coal			SI, dirty
		Blocky	0.17			4	Coai			Clean, hard
		Blocky	0.02			4	Mudstn	Brown, massive		Pyrnclastic ash band
		Broken	0.80	1	29.27	5	Coal	Black		Pyrite blebs near base up to 2 cm
24										
run #5		Destan	• • •							96 - 102,25' Rec. 1.60m
		Bioken	0.68			6	Coal	Black		Clean hard
		Blooky	0.00			6	Coal	Black		Dirty = Grad, contact w, floor
		Blocky	0.22				Carb. mudstn	1		Floor plant frags.
		Blocky	0.03			8	Coal			Dirty
		Blocky	0,02			8	Muastn			Coaly
		Blocky	0.31		• •	0	Coal	<b>D1</b> 1-		Dirty
		Blocky	0.25			10	Coal	Black		SI. dirty
	•	Dioony	0,20			10	WUGSUN	UK. grey		Floor, v. carby and top 6 cm.
	-									
	1									
•		I I	•				1	1 1		

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	Telkwe		HOLE #	T94810C	CONTRACTOR	J. T. Thomas
DATE	Teixing		SITE #	10111100	LOGGING CO.	BPB
ORE TYPE	NQ				CASING	82' (25m)
EOLOGIST	Angelo	•			LOGGER	Al Bretton

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	то	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
1		blocky	1.63	52.84			sisn	at top	[	carb mdsn at base
. 1		broken	0.06			1	coal	top,bk		seam "C"
2		loose	0.55			1	coal	clean.hard.bk		possible loss
2		blocky	0.02			2	mdsn	parting.br		
2		2.000.1	0.41			2	coal	hk		sl dirty at too
5		broken	0.03			2	mdsn	hr, hand		
5		broken	0.73				coal	hard al dirty at		abrunt contact with
5		DIONOIT	0.70			~		hasa bk		floor
<u>اً</u>			0.61				anth maters hada			floor
		h-alian	0.01				nices in the second			thinly hdd at hang
3		DTOKEN	2./3				\$1511 alam	massive at top	1	unity bud at base
4		DTOKEN	2./				51511	thing intoo, w vig		hode
5		has been					_ <i>_</i>	55 SUIID INGSSIVU		Dous
, 5	80	oroken	3.07				ala ala			
6		broken	0.25				SIST B/B			
6		crumply	0,13				C081	1		1
6		DIOCKY	2.72				sisn			0.000
7		proken	2,13			_	a/a sisn/ss			90/10
8		broken	0.31			5	sisn			1001 #10
8		broken	0.06			6	Interbad sish/coal			(40/60) coal
8		broken	0.2			6	coal	clean		occ dirty bands
· 8		crumbly	0.04			6	COB	dirty		ł – – – – – – – – – – – – – – – – – – –
8		blocky	0.93			7		clean, hard		
8		blocky	0.94			8		clean, hard		[ ]
9		broken 、	0.14			· 8	coal	clean, hard		
9		broken	0.07			9	mdsn	bentonitic, tan	i	
9		broken	0.13			9	coal	st. dirty	ļ	
9		broken	1.26			10	sisn	carb at top + bas	0	oce intbd
						1				vig ss lams dirty th/out
9			0.12	•		11	coal	v.dirty		roof coal of #1 seam
9		1	0,55			12	coal	cleaл, hard		
10		crumbly	1.14			13	coal	clean, hard		v.broken
10		broken	0.05			14	coal	dirty		
10	1	crumbly	1.02			14	coal	clean, hard	· ·	possible coal loss
						[ •	1			at base 20cm
10		blocky	0.19			15	sl	dirty esp ar rop	· ·	coai
10		blocky	0.02			15		,		pyroclastic ash layer
10		broken	0.07			15	coal	slightly dirty		1
10		broken	0.16			16	coal	clean, hard		1
11		blocky	0.68			16	coal	clean, hard. sl		repid gradation to
11		-						dirty ar baso		floor (-4cm)
11	1	broken	0,35			17	carb mdsn	floor, grad to silty	1	minor pyrite
								masn		
11		broken	1.75				silty mdsn	floor con't		· · · · · · · · · · · · · · · · · · ·
12		blocky	0.3				slan	roof of 1La	1	
12		blocky	0.21			18	COS	hard, clean, 1La		
12		broken	· 0.13			19	mdsn	bentonitic wh/av		· ·
12		hroken	0.7			20	coal	1Lb.		possible loss at base
12			1.46				intibil midsn			(carb/sisn/sa/coal)
12		blocky	0.17	•		21	coal			
12		broken	0.27	۰.		21	coal	si dirty		
10		broken	0.26			~.	mdan	med ov. br retio		
10		brokon	0.20				cosly mden	black ratio		
10		broken	0.00				early mush	brown ratio		
13		blocku	1.13				carb elso	dirty, brown rotio		
13		blocky	1,30				aa (alaa (mdan	interboddod		2516015
14		DIGCKY	2.93				53/5I311/IIIOSN	0000000		2010010

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PROJECT DATE	Telkwa	HOLE # SITE #	T94R24C 3	CONTRACTOR	J. T. Thomas BPB
CORE TYPE GEOLOGIST	NQ Angelo		•	CASING	82' (25m) Al Bratton

BOX MARK	BCA .	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
1		broken	2.03	79			intbd vfg ss/slsn	(85/15)		rare calc. sisn bands
										up to 5cm. wavy but
										abrupt dk/gy sisn intbd
										filling with water
2		broken	2.83				A/A sl.Pyritized	(90/10)		Fe concretions more
										common
3		blocky	0.2			1	v.fg ss	massive, clean		roof
3			0.01			1	pyrite blebs			common w/in ss/coai
3		broken	. 0.02			2	coal			
3		blocky	0.01			2	pyrite band	solid pyrite		
3		blocky	0.06			2	coal	clean, hard		
3		blocky	0.01			2	pyrite/ss band	0.5cm pyrite		
3		broken	0.16			2	coal	dirty bands at top	•	
3		blocky	0.62			3	coal	clean ·		sl. dirty at top
3		broken	0.01			4	coal			pyrite blebs common
3		blocky	0.1			4	si, coal	dirty		
3		broken	0.03			4	coal	dirty	•	
3		blocky	0.32			4	sl	dirty at top		]
3		crushed	0.08	1		4	coal			
3		blocky	0.38	1		5	coal			
4		broken	0.34			5	coal	1		
4		blocky	0.02			6	pyroclastic ash	horizon		
4		broken	0.47			6	coal			occ, pyrite blebs
4		blocky	0.02			7	pyrite as vein	filling th/out coal	۲ <sup>۱</sup>	
4		blocky	0.05			7	coat	clean, hard		
4		blocky	0,04			7	coal	si. dirty	4	
4		blocky	0.08		Į	8	masn	v.coaly at top	1	carb at base
4		blocky	0.73			9	mdsn	massive, floor		
4		broken	0.04			9	carb. mdsn	at top		silty at base
4		broken	0,08			10	coal			
. 4		broken	0.02			10	mdsn	v.coaly		common pyrite
4		broken	0.1			10	coal			•
4		blocky	0.01			10	coal	dirty		
4		blocky	0.13	1		10	coal	clean, hard		,
5		blocky	0.19			10	coal	clean, hard		
5			0.14				mdsn	floor. v.coaly		· · ·
5			0.45	ŀ		]				
5			0.11			11	coal	sl. dirty		
5			0.23			11	intbd mdsn/coal	Interbedded		50/50
5			0.03		•	11	mdsn banding	coal		
5			0.07			11	coal	dirty		
5			1.88	•			carb, mdsn	at top		
		1		1						
6		1	0.1	۰ I			coaly mdsn			
6			0,96				mdsn	w intbd carb zone		
6		1	0.21				coarse ss	poorly sorted		fining up
6	1		0.61			ļ	mdst w. c.gr.ss	poorly sorted	,	
6		L	0.06				coaly mdsn			
6			0.56				C.gr.ss	poorly sorted	•	fining up

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# MANALTA COAL LTD.

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PROJECT	Telkwa	HOLE #	T94R29C	CONTRACTOR	J, T. Thomas
DATE		SITE #	2	LOGGING CO.	BPB
CORE TYPE	NQ		•	CASING	82' (25m)
GEOLOGIST	Angelo			LOGGER	Al Bretton

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
1	30	broken	1.24		44.52		slsn/mdsn	intbd. carb base		abrupt contact,w coal
1		blocky	0,6	44.52	45,12	1	coal	clean, hard		rare thin pyrite lams at
_	, 63									top 1 0 cm
2		broken	1.92	45.12			sisn/ss	intbd 60/40,		core loss
	45							abrupt bedding		
_								contacts		
3		broken	1.68				sisn/vfg. ss A/A	intbd, A./A		core loss. (85/15)
4	45	broken	1.36				A/A 85/15			got core from run 3
5		blocky	2.39		53.08		A/A			occ. pyrite blebs
6		proken	0.52	-						abrupt contact w coal
6		blocky	0.43			2	coa	nard, clean		
		broxen	0.05			3	coai		`	pyrite vein throut
		blooken	0.22			3	coal	anth fragmants		bioturbotes massive
		blocky	. 0.01				mdsh	v conty		Diotorbates massive
		blocky	0.04			A	coal	olean bard	1	nossible loss at base
		broker	0.1			24	mdan	ciean, naiu	t	w25% eacol
4	·	blocky	0.03				mden	corb lower balf		- 55 % COBAI
I. 4		blocky	- 0.03			я		Carb iower mair		
7		blocky	0.07			5	muden narting	Coaly		
	1	broken	0.23			5	coal	dirty esp at hase		
1 <del>,</del>	]	broken	. 0.18			6	mdsn	coaly		, i
· ·	1	broken	0.23			6	mdsn	dirty		pyrite at base
· ·		broken	0.83				mdsn	carb		thin coal stringers
8		blocky	0.7				mdsn	si carb.		ovrite blebs at base
8		blocky	0.3				mdsn	v. cosly		,
8	1	broken	0,85				mdsn	carb		· ·
8		blocky, broken	0.17				mdsn	v. coaly		
8		broken, crushed	0.63				mdsn	sl, carb		not carb at base
9		blocky	1.65			•	mdsn	bioturbated		massive sl. carb
9		blocky	0.17				mdsn	carb		abrupt contact w coal
9		blocky	0.26			7	coal			gradation! lower
										contact into mdsn
9		broken	0.12	•			mdsn	coaly at top		
9		blocky	0.02				coal	band		
, · 9		blocky	0.32				mdsn			
9		blocky	0.03				៣៨៩ក្	v. coaly		(~45% coal)
9		blocky	0.11			8	coal	sl. dirty		
9		blocky	0,04			8	coal			w thin mdsn bands
9		brokon	0,11			8	coal	dirty		
10		blocky	0.15			8	coal	clean		· ·
10		broken	0.02			8	coal			
10		blocky	0.92			9	coal	clean, hard		
10		broken	0.37			10	coal	v.broken		dirtier toward base
10	1	brokon	1.47				mdsn	1/8Y	i	sl. carb massive mdsn
11		broken	0.92				mdsn	l.,	,	carb towards base
L11	I	broken	0.44	l			sisn	ll/br,hard calc.		massive

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PROJECT	Telkwa	HOLE # T94r29C	CONTRACTOR	J. T. Thomas
DATE		SITE # 2	LOGGING CO.	BPB
CORE TYPE	NQ	•	CASING	82' (25m)
GEOLOGIST	Angelo		LOGGER	Al Bretton
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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
11		blocky	0.03				coal		<u> </u>	core loss
11		crushed	0,11				mdsn	crushed		core loss
12		broken .	1.76				sisn	coal blebs		rootlets comn th/out
12		broken	0.2			1 11	coal	dirty		w. pyrite th/out
12		crushed	0.04			•	mdsn	coaly bands		.,,
13		broken	0.02				mdsn	A/A		
13		broken	0.06				coal	v.dirtv		
13		broken	0.64				mdsn	roof		
13		broken	0.04				mdsn	coaly, roof		
13		blocky	0.52			12	coal	clean, hard		minor dirty zones
13		blocky	0.02		]	13	mdsn parting	·		
13		blocky	0.31		]	13	coal	sl. dirty	•	
13		crumbly	0.18			13	cnal	crushed, A/A		
14		broken	0.06			13	coal	clean hard		dirty at hase
14		broken	0.97				mdsn	sl, carh at base	1	coaly at lower 3cm
1.4		blocky	0.03			14	coal	dirty		
14		blocky	0.00	,		14	mden narting			
14		crushed	0.23			14	coal	eoft platy mden		hands at hase
14		blocky	0.20			15	coal	clean bard		
14		blocky	0.05			15	nvroclastic ash	w mixed coal	1	
14		broken	0.00			15	cost		1	
14		logishod	0.11		ĺ	'`	mden	tin shop)		
14		brokon	0.11				mden	A/A massiva		
14		broken	0.07				nost	A/A massivo		
14	· ·	broken	0.13				cual	shurry		
14		blocker	0,03				nusi	call		
14		becky	1.10				pyrite			
14		broken	1.10				1010211	w uce coal banus	Í	
19		blocken	0.0			10	alaa	dist.		occ. pyrite biebs
15		blocky	0.13			17	51511	alara hard		occ. pynte wisps
10		blockeri	مذ			. 19	coal ,	clean, nard		
10		DIOCKY	0.0			10	coal	clean, naro, A/A		·
10			0.02			10	coal	bontonitio white		riasidon to peritorinte
10			0.13			19	masn	bentantic, white		
15	<u>'</u>	crumply	0.11			19	masn	centanitic, grey		w/in shoe
16		DIOCKY ,	0.26			19	mosn	dark grey		
16	'	ыоску	0.80			20	COBI	clean, naro		v.rare dirty bands at
										top, abrupt contacts
16	1 ·	ыоску	. 0./3				masn			
16		blocky	0,07				mdsn	v. coaly		
16	1	blocky	0.77			21	COBI	Iclean, hard		
16	<sup>3</sup>	broken	0.04			· 21	coal	si. dirty		transition zone
16	1	ł	0.13			1	mdsn	(in shoe)	· ·	v. coaly at top
17	1		0.8				mdsn			
1			0.19			22	coal	sī. dirty		1.
1			0.01		1	22	coal	dirty		· ·
17	'	broken	0.87		1	•	mdsn		· ·	×.
18	8		0.81			23	coal			

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PROJECT	Telkwa	HOLE # T94R2	ю	CONTRACTOR	J. T. Thomas
DATE		SITE #	2	LOGGING CO.	BPB
CORE TYPE	NQ			CASING	82' (25m)
GEOLOGIST	Angelo			LOGGER	Al Bretton

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
18			1.34		1		sisn/ss	Intbd (80/20)		
19			1.87			•	sisn/vfg ss	intbd (70/30)		
20	. 58	broken	2.77				sisn/ss	intbd (55/45).		rel, sharp bdg
						•		wavy bdg.		contacts, minor ssd
21	85	broken	3				A/A	apparent folding		fold = o/t
22	60	broken	0.32				sisn/ss	intbd. A/A (70/30		
		blocky	0.16		.		sisn	calcareous hard		massive
	60	broken	1,32				sisn/ss	intbd (70/30)		
		blocky	0.16				calc. sisn	fractured		
		crumbly	0.37				sisn/ss	intbd		
23	30	broken	2.92				sisn/ss	intbd (75/25)		• ,
24		broken	. 1				sisn/ss A/A	v.broken, intbd		fractured
24		broken	0.77				ss	v.fractured zone		atz vein-filling th/out
25		broken	0.36				clac, sisn	hard, massive		minor vfa ss beds
								·····		•••••
25	. 67	blocky	2.64				sisn- hard, clean	massive, Fe		minor pyritized coal
								concretions up to		spur esp at base
								5cm occ. present		• •
26		blocky ·	3.07				sisn	sandy, massive		common pyritezed
										coal spur.
27		blocky	3				fine gr. ss	massive		occ. pyyritized coal
		, ,					· .			spur, v.rare bivalves
										. ,
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PROJECT	Telkwa	HOLE # T94R33C	CONTRACTOR	J. T. Thomas
DATE		SITE # 12	LOGGING CO.	BPB
CORE TYPE	NQ		CASING	82' (25m)
GEOLOGIST	Angelo		LOGGER	Al Bretton

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	10	SAMPLE #	ROCK TYPE	DESCRIPTION	<u>ISED STRUCT.</u>	INOTES
1	37	broken	1.97	17		A001	sisn	dk/gy, v.thin bed	1	Intbd.sisn/fgr.ss 90/10
		1		•				1		abrupt bdg contacts.
								1		v.minor ssd.No pyrite
2	2 35	jv.broken	1			A002	slan	dk/gy, v.thin bed		A/A
3	1	v.broken	0.5	•		A002	slsn	dk/gy, v.thin bed		A/A (95/5)
3	1	blocky	0.02			A002		white		calcite fracture gill
3	32	braken	1,.08			A003	slsn	dk/gy, v.thin bed	1	Intbd sisn/fgr.ss 90/10
				-			,			A/A
4	L I	broken	1.55			A003 '	sisn	dk/gy v.thin bed		Intbd sisn/fgr.ss 90/10
				1						A/A, short fining up
										seg w/in,ss intbd.
5	i 32	3 v.broken	1.33			A004	sisn	dk/gy, v.thin bed		A/A.non-calc.no pyrite
6	6	v.broken	• 0.2			A004	sisn	dk/gy, v.thin bed	[	A/A.non-calc.no pyrite
6	6 45	blocky	0.21			A004	SS ,	c.gr, l/gy, thin bea	i i	cgr.ss w intbd slsn.
6	5	<ul> <li>crushed</li> </ul>	0.65			A004	sisn	dk/gy, v.thin bed	I	non calc.intbd sisn/ss
7	/ 30	) broken	0.68			A005	ธโลก	dk/gy, thin bed		intbd sisn/cgr.ss 70/30
7	<b>'</b>									overall fining up.sharp
									1	bdg contacts
7	/ 30	) v.broken				A006	<b>S</b> S	c.gr, l/gy,massive	· ·	thin sisn beds at top
										common atz veining
i			· ·						1	rip ups, no pyrite
8	30 30	) v.broken	0.93			A006	SS	c.gr,l/gy,massive		A/A sisn/ss = (5/95)
8	3									roof.core loss.
8	3	blocky	0.29			1	coal	block colour		sl.dirty at top 2 cm
		broken	0.07			1	coal			loss at top
	•	v.broken	0.1			2	mdsn	carb., massive		poss. loss-shear zone
	•	v.broken	0.12			2	coal			minor pyrite at base
1										possible loss at top
<u>د</u>	9 73	2	1.01			A007	slity mdsn	dk/gy,massive		sl.carb,fractureless
		·								no visible pyrite
5	2	blocky	0.14			3	coal	bk, sl.dirty		occ pyrite vein filling
	2	Droken	0.23			4	coal	bk, clean, nard		no visible pyrite
10	1	broken	0.56			4	coal	DK		clean, naro
10	3	broken	0.02	•		4	coal	DK		si, dirty coal
11	()	Crusned	0.11				COBI			clean, naro
10	3 ·	Droken	0.01				sisn	br, massive	1	
	1	v.oroken	0.0/				coal ,	DK, Gean		minor pyrite
11	1	broken	1.04				COBI	DK •		dim hand
	1	blocky	0.01			4	coal	DK		dinty dano
1		blocky	0.52			'	coal	bk, clean, nard		no visible pyrite
	5	blocky	0,47		1.		coal	bly clean, naru		no visible pyrite
		blocky	0.02				çuar	bk shurty	1 '	no visible pyrite
		DIOCKY	0.95			1,000	clan	divine this had	1	no visiole pyrite
1 14	4 61	aroken	0,67			14008	51511	ak/gy, thin bed		noor intoo sish (up to
		-	0.00			4000	-			Zucini) vig.ss (90/6)
1		Droken	0.36			14009	51511	i/gy, massive	1	calc.v.naro.no pyrite
12	<b>'</b> ] .	v.broken	0.44		×		sisn	aktāk	1	muddy sisn.carb th/out
		heaten				<u>مہ</u> ا	mdan	distant accention	.	coal + caro lams
	<u> </u>	Inoxen	0.54	1	L	10	musn	Jok/gy, massive	L	leator blutte panoing

PROJECT	Telkwa	HOLE #	T94R34C	CONTRACTOR	J. T. Thomas
DATE		SITE #		LOGGING CO.	BPB
CORE TYPE	NQ			CASING	82' (25m)
GEOLOGIST	Angelo			LOGGER	Al Bretton

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO ·	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
1	72	blocky .	3				fgr.ss/slsn intbd	sisn intbd. = up		abrupt contacts.
								to 1 cm		some Fe stained sisn
	:	Ι.						· ·		· ·
2		blocky	0.78				A/A (65/35)	increasing sisn		abrupt contact w coal
1				· .				towards base		
· 2		blocky	0.24			1	coal	ciean, hard		sl, dirtier at top
2		blocky	0.03			1	mdsn	carb		massive
2		blocky .	0.42			1	coal	clean, hard		abrupt lower contacts
2	73	blocky	0.52				slsn	med brown		massive. pyrite
									•	nodules w/in
3		blocky	1.12				sisn intbd	Fe stained zones		minor inbd sfg.ss
3		blocky	0.22			•	sisn	v.hard. massive	]	sl.calc. mixed th/out
3		broken	1.4				sfg.ss/sisn	intbd (30/70)	1	overall coarsing up
3	77	crumbly	0.16				mdsn	siity		
4		broken	2				sisn	intbdvfg.ss/slsn		(30/70) ssd
4		broken	0,06				coal	v.dirty w pyrite		transition zone
•		l'						banding		
4		broken	0.49			2	coal .			
5		broken	0.36			3	coal			minor pyrite blebs
5		broken	1.04				mdsn	v.broken, silty		carb at base. pyrite
5		broken	0.05			4	mdsn	coaly		pyrite banding th/out
5		broken	0.46			5	coal			dissem, pyrite w/in
6		blocky	0.65			5	coal	ciean, hard		
6		blacky	0.01				coal	dirty	Ì	pyrite banding
6		blocky	0.13			5	coal		1	
6		blocky	0.01			5	mdsn parting	brown		
6		blocky	0.76			6	coal	ciean, hard		minor pyrite at base
6	i.	broken	0.32			7	coal	broken		
6	i	blocky	0.06			7	coal	sl.dirty		
6		broken ·	0.02		*		mdsn	carb		transition zone. floor
6			0.66				mdsn	carb at top		sisn at base massive
6		biocky	0.14				coal			
6		crumbly	0.02				coal	in shoe		
6		blocky	0.08				mdsn	coaly		(~35%)
7		broken	0.05			-	mdsn	A/A		(~20% coal)
7		broken	0.22			8	coal	ciean		
7	71	crushed	0.48				sisn/mdsn	intbd	.	(40/60)
7		blocky	0.04			1	coal	Ι.		ŀ
7		broken	0.73				mdsn	massive		
. 7		broken	. 0.4				sisn	massive		calcareous
8		crushed	1.63				ននែក	mdsn thin beds		grading to sandy sisn
		-						at top		at base ,
9	70	crushed	1.55				vfg. ss/slsn	Intbd, (30/70)		more massive sisn
	1									toward base
10	60	broken	1.16				vfg. ss/slsn	interlam (10/90)		
11		broken	0.18				sisn	minor Inlain ss		
· ·		crushed	0.03				coal	crushed	· ·	
		blocky	0.52				volcanic ash	horizan		· ·

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PROJECT	Telkwa	HOLE #	T94R34C	CONTRACTOR	J. T. Thomas
DATE	•	SITE #		LOGGING CO.	BPB
CORE TYPE	NQ			CASING	82' (25m)
GEOLOGIST	Angelo		•	LOGGER	Al Bretton

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	то	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
11		broken	0.58			9	coal	sl. dirty th/out		
11		broken	0.04				mdsn/bentonite	coaly		
11		broken, crushed	0,09		•		bentonite	tan		poorty consol.
.11			0.21				mdsn	carb	ł	, ,
11			0.14			,	mdsn	massive, sl. carb		
11		broken	0.42				ee	breccisted th/out		atz + coloite fract fill
12		blooky	1 35				mden	maccivo	-	plant from th/out
12		DIGORY	0.52			10	ooal	minor purito lomo		dirtu en ten Jem
10		blocky	0.00			11	mden	minor pyrite iams		anty on top zen
12		orumblu	0.03				mdan	A/A to shap		abietana - anno 1
12		crumbly	0.00			11	niusn	A/A In shee		truckness = approx
12		crumbly	0.03	•	~	12	coa	(IN SHOE)		approx thickness
13		broxen	0.53			12	coal			
13		platey	0.2				mdsn	coaly		(~45% coal)
13		broken	0.33				mdsn	massive		
13		platey	0.14			13	coal	v.dirty		intbd mdsn bands 50%
13		broken	0.2			13	coal	sl.dirty	I .	
13		broken	0.15				mdsn	v.carb		
14	60	broken	1.93				sisn	v.dirty		intbd mdsn and occ.
										vfg. ss
15		loose	0.07			14	coal		· ·	I. · 1
15		blocky	0.38			14	coal			
15		blocky	0.14			15	bentonitic mdsn			
15		broken	0.18			16	coal ·	dirty		
15		broken	' 1.4		·		mdsn	massive		sometimes silty
15		broken	0.05				COB	(in shoe)		
16		blocky	0.99	•			coal	occ. pyrite blehs		nossible loss at top
16		,	0.69				sten	massiva		saudier at base
17		broken	1.22				sicn			eandy
17	.]	broken	1 78				fa coloton	intastroj rom		alap stressly
] ''	· ·	utoken	1.70		-		19, 22121211	inted at top, to		demisset at ten
								11100 19. 55/51511		ubilo as at haso
10		blasku	1.46					alean beed as -		
10	1	blocky	1.40				is and piss	ciean, naro. occ.		
18	1		1					carb/coaly lams		mp-ups + minor small
18	1	h h							•	scale faulting
18	1	broken, crumbly	0.71			*	isisn/masn	intod. sish at top		pase of channel
18	1		]					w rare ss lams		abpve sisn +mdsn at
18	1	1								base
18	1	crumbly	0.15				ss/sisn	intbd	1	
19		blocky	3				vfg.ss	massive. silty at	1	si, cgr at base, occ.
								top + becoming	i i	pyritized coal sper in
	1						,	cleaner +si.		lower half, rare thin
	1									coal beds up to 1cm
20	-	broken	3				coal/carb blebs	massive v.dirty	Ι.	occ. sisn zones, no
								vfa.ss w v.rare	<b>`</b> `	sharp bedding
		ĺ						coal/carb blebs		contacts
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PROJECT	Telkwa	HOLE #	T,94R34C	CONTRACTOR	J. T. Thomas
DATE		SITE #		LOGGING CO.	BPB
CORE TYPE	NQ	-		CASING	82' (25m)
GEOLOGIST	Angelo			LOGGER	Al Bretton

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
2		blocky	1.49				ss A/A	massive		occ. carb lams
2.	1		0.92				coal	Intbd		in beds up to 5cm 📩
- 24	i i		0.18				mdsn	coaly	•	
2		broken	0.15				coal	dirty, sheared		
22	2	broken	0.5				carb mdsn/coal	intd		
		broken	0.2	1		18	coal	si. dirty, sheared		
		broken	0.02			18	sisn parting			,
		blocky	0.34			18	coal	1		dirtier than above coal
'		broken	0.05			19	mdsn		1	
		broken	0.35			19	coal	v.dirty (~55%)		common intbd d.coal
										and mdsn
·		crumbly	0.13			19	coal	A/A (in shoe)		
2:	3	broken	0.68	l	!	20	coal	sl. dirty		
2	3	broken	0.04		1	20	sisn parting	1	ł	
2	al l	broken	0.34	· /		21	coat	clean, med, bard		sheared
2	al l	blocky	0.1			21	coal	dirty (in shee)		
2		broken	0.49			22	coal			
2	1	crushed	0.40			23	mdsn	carb		*
2	r	onuchad	0.25		]	23	coat	si dirty sheared		
2.	<u>.</u>	blocky	0.23		ļ	24	coal	st dirty		
21		coumbly	0.00			24	coal	sheared		dirty zones
2	<u>.</u>	Ciclinning	0.09				mdsn	v coaly massive		1-45% coall
	,	hrekon	1 50				mden floor	cilty charred		
		blocky	1.55				elen	dirty morelya		
	<b>'</b>	DIDCKY	3				21211	unity, massive		
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PROJECT	Telkwa	•	HOLE #	T94R33C	CONTRACTOR	J. T. Thomas
DATE			SITE #	12	LOGGING CO.	BPB
CORE TYPE	NQ				CASING	82' (25m)
GEOLOGIST	Angelo				LOGGER	Al Bretton

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	ro ·	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
13		blocky	0.24			10	coal	bk		sl.dirty
13		blocky	0.06			10	mdsn	br		volcanic ash.pyrite
13		blocky	0.14			10	coal	bk		dirty at top
13		blocky	0.91			A011	sisn	br		dirty, v.carb
13		blocky	0.11			A011	coal			pyrite bands common
13		broken	0.75			A011	slsn	I/gy, massive		dissem, pyrite w/in
14		v.broken	0.11			A012	coat ·	bk		dirty
14	68	blocky	0.29			A012	mdsn	massive,carb		coaly esp at top
		•								pyrite band/blebs at
		,					`			base. Non-calc.
		blocky	0.4			11	coal	bk		minor pyrite along face
		blocky	1.1			12	coal	bk ·		clean, hard
14	1	blocky	0.4			13	coal	bk		clean, hard
	•	•	0.06			13	coal	bk		dirty
14		blocky	0.49			A013	mdsn	carb, dk/gy		floor
15			0.06			A013	mdsn	dk/gy, massive		la/a
15			0.06			A013	mdsn	tan, massive		I/br bentonitic mdsn
15	[	v.broken	0.15			A013	mdsn	silty		calcite vein filling
15			0.03			A013	coal	bk		
15			0.73			A014	sisn	med. gy v.thin be	, . d	overall fining up
15										sequence.carb mdsn
15							1			at top intod vfg.ss
15	72	blocky	1.91			A015	ss	l/gy, y thin bed	ssd ·	intbd vfg.ss/slsn 90/10
								1		carb lams common.
										non-calc. clean,hard
							1			s+p ss. no pyrite
16		blocky	1.5			A016	SS	v.thin bed	ssd	intbd vfg.ss/sisn 70/30
			,							bioturbated,non-calc
16		blocky	0.25			A016	ss	massive		dirty ss/coal mixed,rf
16		blocky	0.13			A017	SS	carb, gy		
16		blocky	0.04			A017	coal	bk		
16		blocky	0.02			A017	mdsn	carb, br		Į – – – – – – – – – – – – – – – – – – –
16		blocky	0.11			A017	coal	bk		\$ I
16		blocky	0.27			A018	mdsn	gy, v.thin bed		Intbd coal/sisn/mdsn/
		-								minorss, (5/15/75/5)
					_					pyrite band at base.rf
16		blocky .	0.44			14	coal	bk '	,	clean,hard.pyrite band
										at top 5cm.up to 1mm
17		broken	0.44			15	coal	bk		pyrite wisps on occ.
17		broken	0.05			15	coal	bk		dirty
17	•	•	0.04			A019	mdsn	carb, bk		coaly
17			0.68			A019	sisn	m/gy, v.thin bed	ssd	Intbd.sisn/vfgss 75/25
17		blocky	0.01			A019	pyrite	bk		pyrite band
17		crushed	0.05			16	coal	•		v.dirty
17		crushed	0.01			16	mdsn	br		
17		broken	0.51			16	coal	bk		
17		crushed	0.22			A020	mdsn	br, massive		
17		crushed	0.33			A020	mdsn	carb, br		coaly, coaly at top
								1	· · · · · · · · · · · · · · · · · · ·	1

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MANALTA COAL LTD.

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PROJECT	Telkwa	HOLE #	- T94R33C	CONTRACTOR	J. T. Thomas
DATE		SITE #	12	LOGGING CO.	BP8
CORE TYPE	NQ			CASING	82' (25m)
GEOLOGIST	Angelo			LOGGER	Al Bretton

BOX MARK	IBCA	CORE STATE	INTERVAL THK	JFROM	TO	ISAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
18		blocky	0.74			A021	mdsn	carb	1	<u> </u>
40		hankan .	9.10	,		4022		minus as shin had		, lathd clop luin an 70/2
16	. ^0	Drokell -	4.14			A022	51541	migy, v.unit bed		averall fining up thi
		]	·	1				•		sequence sed at too
	•	1								Fo rich sien hande
				ļ			•			Increase toward been
10	70	hlasku	2 75			1022	eten	minu within had		Inthe deplote rs 85/11
19	/*	blocky	2.75			1023	sisii	dk/av within bed		A/A 95/5 ppp-cptc
20		blocky	0.03			A023	sisii •	ukiyy, viunni osu		A/A 55/5. Non-calc
20		blocky	0.04			1024	mden	ox orb dk/br		carb common ovrite
20		DIOCKY	0.02	i i		1024	11051	calu, uniti		blobs up to 3cm
20			0.33			10004	mden	oorh hk		coolu
20		besten	0.10		1	10024	nusn	Galb. DK		ousite blobe th/out
21		broken	1.50			1024	COBI	early proposition		pynte blebs th/dut
21		Droken	1,00			AUZS	sisn .	caro, massive		sish at top grading to
	· ·									carb muddy sish at
		L	0.00		1	1.005		L.		dase.pyrite oleos occ.
21		broken	0.06			A025	coal			airty
	/6	DIOCKY	0,3			A025	masn	caro, or, massive		sish.caro.non-caic
21		DIOCKY	0.38			1/	coal	DK		dirty bands at top 6cm
22		DIOCKY	0.02			18	coal	DK		
			0.025	1		18	asn-bent			gas coming out core
			0.9	ł		18	coal	DK		no pyr,clean
22			0.01			19	asn-bent	DUTT		
	1	blocky	0.345			19	C081	DK /		no pyr, clean
			0.01			19	ash-bent	br		
22		DIOCKY	1.12			20	coal	DX.		no pyr, clean
23		blocky	0.39			21	coal	bk, clean.no pyr		sharo contact
20	1	broken	0.68			A026 7	sisn	av allowing by		carby lams ton 1cm
	72	blacky	0.92			A027	sisn	er hard		lothd 85/15 bio tur
	^^	blocky	0.03			A028	ee -	817 mars		v.hard. calcateous
	71	blocky	0.00			A028	ee	ov hard		Inbd 60/40 y or sand
	''	DIOGRY				10°20	00	811 11410		and der terrigi sand
24		broken	0.12		1	A029	ss	br		fine grained
	1	blocky	0.08			A029	ss	av		_
		v.broken	0.14		ł	A029	ss	br		calc, v.hard
	69	blacky	0.83			A029	slan	ov, v,thin bed		intbd 80/20
		v.broken	0.13			A029	55	br		v.hard.calc
	74	blocky	0.61			A029	stsn	av		Intbd 95/5
	1	broken	0.16		ļ,	A029	55	br		forv.hard.v.cale
		broken	0.10			A029	sisn	av. v.thin bed		linthd 70/30
	1	broken	0.05		ł	A029	ss-fine	br		hard, calc
		blacky	0.05			A029	sien	ov v thin her		linthd 70/30
05		broken	0.00			12030	esilino	br massive	*	cale y bard
20		blasku	0.07	1		10000	slen	an a the bed		w this casits based 40
20	<u> </u>	blocky	0.83			1030	0.01	BAY ATTUUL DAG		where weets
25	2	DIOCKY	0.02			14030	aa	VBY		Vinaru, Vicalo
26	2	DIOCKY	0.61	1 ·		A030	51517	yy, thin bea		mos 70/30
25		DIOCKY	0.02			A030	55	1/9Y	,	v.calc, v.hard
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## MANALTA COAL LTD.

PROJECT	Telkwa	HOLE # , T94R33C	CONTRACTOR	J. T. Thomas
DATE		SITE # 12	LOGGING CO.	BPB
CORE TYPE	NQ		CASING	82' (25m)
GEOLOGIST	Angelo		LOGGER	Al Bretton

1	BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	то	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
Í	25		blocky	0.5			A030	sisn	dk/gy		intbd 95/5
ļ	25		broken	0.06			A030	ss	l/br		v.clac, v.hard
	25		blocky	0.05			A030	sisn	gy		
	25		blocky	0.04			A030	ss	ay		calc, hard
	25		blacky	• 0.63			A030	sisn	gy		70/30 intbd
									5.		
	26		blocky	0,43			A031	sisn	av		70/30 inthd
			broken	0.08			A031	55	br ·	,	v.fine
			blocky	0.22			A031	sisn	dklav		******
			broken	0.1			A031	55	br		v fine
			blocky	1.17			A032	sisn	dk/ot		nossible shell frage
			ALL DICH				1002	51511			begainie auon udfla
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PROJECT DATE	Telkwa	. HOLE # SITE #	T94R:	35C 11	CONTRACTOR LOGGING CO.	J. 1 BPI	J. Thomas
CORE TYPE	NQ				CASING	82'	(25m)
GEOLOGIST	Angelo				LOGGER	ALI	Bretton

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT,	NOTES
1		crushed	0.08				mdsn	coaly		
1		broken	0.11				mdsn	carb		
1		blocky	1.78				mdsn	massive	plant debris	
2		crumbly	0.91				mdsn	A/A	coaly/carb zones	
2		core loss	0.06			1	coal		poss loss at base	
3		broken	0.51			1	coal	hard	transition'zone	
3		crushed	0.04				mdsn	carb, floor	plant debris th/out	•
3		blocky	i.37				mdns	massive	sl.carb at base	
4		blocky	0.7				mdris	A/A.		
4		blocky	0.03				pyrite band		• •	
4		broken	0,49			2	coal			
• 4		blocky ·	0.06				mdsn	carb		
4			0.32				mdsn	silty, massive		
4			0.07				<b>S</b> S	soft		
4		crumbly	0.13	-		3	coal			
4		crumbly	0.11			3	coal	(in shoe)		
5		blocky	0.58		,		sisn	massive	plant frags	٣
5		broken	0.26				slsn	massive.(sl.calc)		
5	61	crumbly	0.95				sisn/ss	intbd (70/30)	ssd	
6		broken	0.61			4	mdsn	silty at top		
6		broken	0.2			4	coal	si.dirty		
6		blocky	0.05			5	mdsn	parting		
6		broken	0.49			5	coal	dirty at top		
6		broken	0.16				coal	clean		
7		blocky	0.26			5	coal			
		blocky	0.04			6	shale	carb		
		blocky	0.04			6	shale			
		blocky, broken	1.58		li	7	coal	bands broken,		-
								rest blocky		
8		blocky	0.18			7	coal			
		blocky	0.38				mdsn	minor intbds of sh		
	70	broken, crumbly	0.49	•			sst			
			0.5				sst	minor coaly lens		
		platey	0.24				shale and mdsn	erosional top		•
		blocky	0.1				mdsn			
		blocky	0,48				sst-fg			
9		crumbly	0.02				mdsn	l/br		
		blocky	0.35				mdsn	coarsening down		
	70	blocky	0.59				sst	minor intbd mdsn		
		blocky	0.41				mdsn	minor intbd sst		
	70	blocky	0.17				cgr. ss and mdsn	intbd		•
		blocky, broken	0.09				shale	l/br		
			0.32			,				
		crushed	, 0.05				shele			
		blocky	0.11				mdsn	carb, toward		
								bottom		
			,							

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PROJECT DATE	Telkwa	HOLE # SITE #	T94R35C 11	CONTRACTOR LOGGING CO.	J. T. Thomas BPB
CORE TYPE GEOLOGIST	NQ Angelo			CASING LOGGER	82' (25m) Al Bretton

BOX MARK		BCA	CORE STATE	INTERVAL THK	FROM	TÖ	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
	10		broken	0.02				coal	1		
			blocky	0.72				mdsn	coal lenses		
			blocky	0.35				SS	coarsening down	1	coal frag
			blocky	0.18				mdsn .	· ·		
			crushed	0.1				mdsn .			
ł	11		blocky.broken	0.32				mdsn			
		70		0.23				mdsn	caic, br		
			blocky	0.23				ss and mdsn	inthd		
			broken	0.03				mdsn	br		
		80	biocky	0.72				ss and mdsn	intbd. w concret.		
		-	blocky	0.05				SS	br		
			blocky	0.2				ss and mdsn	intbd		
			crushed	0.14				ss and mdsn	intbd	1.	calc, vein w, pyrite
			crushed	0.15				ss and mdsn	intbd		
	12		broken.crumbly	0.59				ss and mdsn	intbd		minor cale on frac.
		85	blocky broken	0.12				55	calc		
			broken	0.24				mdsn and ss	intbd		cale frae, filling
1			blocky broken	0.54				<<	minor inthd		mden at ton
		70	blocky	0.18				55			, de top
	13		broken	0.18				mdsn + fa.ss	intbd. br		
		6	5 blocky	0.36				ss marcar.			carb some bed planes
			blocky.broken	0.19	Ŧ			mdsn + for.ss	minor coaly + carb	1	
			blocky.broken	0.53				mdsn ·	thin sh in middle	1	sh heds
	1		blocky.crumbly	0.73			8	coal			heavy, (high ash)
	14		blocky.broken	0.36			9	coal			nout yy (mgr con,
				0.06	; ÷			sh and mosn	inthd		calcite bend at base
			broken.crumbly	0.2				mdsn			
			blocky	0.48		-		mdsn and ss	inthd		50/50, cff
			broken	0.1		· ·		far.ss	calc		,,,
			blocky	0.2				ss and mdsn	intbd		
			blocky	0.52				for.ss and mdsn	irrea, baddina		cff
			,, ,	0.18				ss and mdsn	inthd, hr	· ·	
				0.64				ss and mdsn	inthe, av		cff
	15		blocky.crushed	0.25				mdsn	-, 8,		
	, -		blocky	0.27			10	coat			
			broken	0.08			11	sh and coal	intbd		
			blocky	0.61			12	coal	one shaley laver		
	16		blocky	0.23			13	coal			
1			hlocky	0.04				sh and coal	Inthd		
			blocky	0.35		,		mden	many coal frag	1	
			blocky	0.13				coal	many ober mag		
			blocky	0.17				mdsn	mandy coal frag		
			cleated	0.05	· ·			sh	carb		· · ·
			blocky.platev	0.61	'		14	coal	one thin sh hand		
			hlocky	1.36				mdsn	massiva		many coal from ton 20
1			- iount	1							many over nay top 20
1										<u>،</u>	
1	1										
L			_				1		I	1	

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PROJECT DATE	Telkwa	HOLE # SITE #	T94R35C 11	CONTRACTOR LOGGING CO.	J. T. Thomas BPB
CORE TYPE GEOLOGIST	NQ Angelo			CASING LOGGER	82' (25m) Al Bretton

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
17	70	blocky	0.79				mdsn and \$s	intbd, gy		50/50
		broken	0.1				fgr.ss	br		cff
		blocky	0.78				mdsn			
	65	bloocky	0.75				fgr.ss	minor intbd		mdsn and carb sh
			0.59				mdsn and ss	intbd		
18		blocky .	0.16				A/A			
,		broken	0.06				SS	calcitic, br		
	65	blocky	0.49				ss and mdsn	intbd, 60/40		cff, coaly film on 🐋
							•	irreg bedding		bedding planes
		blocky	0.06				SS	calcitic, br	,	
	65	blocky	2.23			•	ss and mdsn	intbd, A/A		
19		blocky	1.88				ss and mdsn	intbd A/A		70/30
			· 0.91				mdsn			minor coal stringers
			0.02				coal			
			` 0.12				mdsn	A/A		
20		blocky .	0.2	×			mdsn	A/A		
		blocky,platey	• 0.11				sh + carb sh + co	all intbd		
		blocky	0.22				mdsn	massive		
		blocky,broken	2.07			15	coal	banded, minor cff		minor carb sh bands
21		blocky	0.62			16	coal			
		blocky	0.21				sh	bk		
	,	blocky	0.35				mdsn	minor sh		irreg. bedding
		blocky	0.42				sh	dk/gy		minor coal bands
		blocky	0.22				mdsn	coal frag		
		blocky	0.23				sh	A/A		
		blocky	0.53				mdsn	massive		
		blocky	0.39				mdsn	intbd		minor coal bands
22		blocky	0.09				A/A			
		blocky	0.55				mdsn	massive		intbd w sh at bottom
		broken, crushed	0.08				coal			
		blocky	0.51				mosn and sh	intbd		numerous coal bands
		ыоску	0.32				coal			
		DIOCKY	0.12				sh .	carb		
		ыоску	0.08				coal			
		DIOCKY	0.35				masn	massive		minor coal bands top
		ыоску	0.03				coal			
			0.6				masn	grading down to		erosional bottom
								tgr.ss		
			0,2			-	masn	minor coal bands		
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#### MANALTA COAL LTD.

PROJECT DATE	Telkwa	HOLE # SITE #	T94R35C 11	CONTRACTOR		J. T. Thomas BPB
CORE TYPE	NQ			CASING		82' (25m)
GEOLOGIST	Angelo	•		LOGGER	•	Al Bretton

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
23		blocky, broken	0.44			20	coal			
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.58	•		.	mdsn	coal bands at top		
			0.17			ļ	shale	carb, coal lenses		
			0.72	· ·			mdsn	massive		coal lenses at top
			0.2				mdsn sh coal	inthd		
			0.47				mden	maeelva		minor coaly frag
			0.47				muan man	imas haddlan		numorouo u thin
			0.27				mosn .	intell perround		
						1 .				coaly layers
			0.15				masn	massive		
24			1.29				A/A		•••	
			0.15				mdsn,ss,coal	intod	•	minor coal
			0.35				SS	massive, l/gy		
			0.35				ss	numerous clasts		no clear bedding
		•	0.25			· ·	conglom., cgr.ss	numrous vol.frag		coal frag
	1		0.61	ł			volcanics	l/gy, massive		
	•									
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#### MANALTA COAL LTD.

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PROJECT	Telkvva	HOLE #	T94R46C	CONTRACTOR	J. T. Thomas
DATE		SITE #	E	LOGGING CO.	BPB
CORE TYPE	NQ .			CASING	82' (25m)
GEOLOGIST	Angelo			LOGGER	Al Bretton

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	то	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES -
1		v.broken	1.6		1	A001	55	fgr., gy, massive		v.weathered,clean,
										non-calc,no pyrite
2	89	broken	0.52	1		A001	88	fgr.,gy,massive		sl.weathered,non-calc
			•	1						s+p clean,rare carb lam
2		broken	1,24			A002	SS	fgr.,l/gy,massive		unweathered except at
		ł								frac.A/A.occ. shell frag
3		blocky	1.17			A002	SS	l/gy,massive		A/A.occ. shell frags
		broken	0.27			A003	SS	fgr., i/gy, massive		frac Fe-stained th/out
	1									bivalves+shell frags
										· -
i		blocky	1.34			A003	85	fgr.,i/gy,massive		clean,hard s+p A/A
										rare shell frags
4	. · 90	blocky	2.82		ļ	A004	88	mgr,.l/gy,massive	ssd	clean s+p.common
				ĺ						carb lams w/in. minor
										ssd and pyrite assoc.
										w coal spur.non-calc
5	88	blocky	2.1			A005	55	mgr.,l/gy,massive		massive at top. thin
								1		sisn beds to 2cm occ.
										towards base. sl calc
										zones w/in.no pyrite
6	5	blocky	2.25	-		A006	<b>S</b> 5	mgr., I/gy, massive		occ.intbd sisn/cgr.ss
	1		•		]					beds to 2cm at top
				1						rare calc. concretion
	1	,								w/in ss to 3cm
7	/ 88	blocky	2.59	1		A007	SS	fgr.,l/gy,massive	ssd	clean s+p w minor
				ł						nitbd sisn, mixing of
										sisn/ss esp at top.non
		1		1						calc,no pyrite
1 8	3	blocky	0.46			A007	SS	fgr.,l/gy,massive		clean,hard s+p,non-cal
1	3	blocky	0.4	1		A008	<b>\$</b> 5	fgr.,l/gy,massive		A/A,clacoreous,slow
	1									sustained fizz.
8	3	blocky	1.97			A009	55	fgr.,l/gy,massive		non-calc.A/A,v.uniform
									1	massive,clean
	9[	blocky	3.08			A010	SS	fgr.,!/gy,massive		A/A,occ. coal spàr
									[	bands to 1cm w assoc.
										pyrite.shell frags rare
1 *					ļ					occ. sl.calcareous zones
10	0	blocky	0.58			A010	SS	fgr.,1/gy,massive		A/A,occ.calcareous
										concretions, coal spur
10		blocky	0.81		1	A011	SS	fgr.,1/gy,massive		sl.calc, w common
										calcareous nodules
										to 5cm in diameter
	1									nodule =ss
10		blocky	1,53		1	A012	\$S	fgr.,1/gy,massive		non-calc to v.s.calc
	1	۰ ،							•	rare small calc concr.
1 1	L]	blocky	2.32			A012	SS . •	fgr.,massive		A/A
1 1	i	blocky	0.27			A013	58	fgr.,massive		coal sper common
11	<u>  </u>	blocky	0.51		<u> </u>	A014	55	fgr.,massive		non=calc w v.rare calc
							· · ·		•	nodules

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PROJECT	Telkwa	HOLE #	T94R46C	CONTRACTOR	J. T. Thomas
DATE		SITE #	E	LOGGING CO.	BPB
CORE TYPE GEOLOGIST	NQ Angelo			CASING LOGGER	82' (25m) Al Bretton

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	то	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
12	2	broken	1.45			A014	SS	vfgr., massive		non-calc w v.rare calc
						1		well sorted	ļ	nodules.pyrite w coal
										sper.sper = calcareous
13	l I	blocky	2.61			A014	65	vfgr.,massive		non-calc.rare coal sper
14	L I	blocky .	3		•	A015	ss	vfgr, massive		overall fining up. non-
15	i l									calc, v.rare coal sper
15	5	blocky	3.01			A016	SS	sfgr.,massive		clean s+p w occ.
,								-		pyritized coal sper
16	5	v.broken	0.05			A017	coal	bk		assoc. pyrite
	88	blocky	1.21			A017	SS	vfgr.,l/gy,massive	ł	coal spar+ assoc. pyrt
		blocky	0.15	•		A018	bentonîte	sandy, wh	'	mixed bentonite/ss
		blocky	1.6			A018	55	vfgr.,l/gy,massive		coal sper+assoc. pyrt.
										occ. calc nodules
17	89	blocky	2.33			A019	SS	vfgr.,l/gy,massive		massive non-calc, w
		· ·								minor intermixed sisn.
										occ. bivalves. rare
										small pyrite blebs
18	3	blocky	0.48		.	A020	bentonite	v.thin bedding		bentonitic at base.
1 •						· ·		-		intbd ss at top
18	3	blocky	'2.46			A021	58	fgr.,i/gy,massive		bioturb. sisn/ss (5/95)
										no distinct bedding.
	•									occ sl.calcareous
	1		•			1				zones th/out.bivalves
	1				:				•	shell frags th/out,pyrt
19		broken	1.66		•	A022	SS	fgr.,l/gy,v.thin be	d	v.thin/intiam sisn/ss
									1	(10/90).mixed by bioturi
										minor sper+assoc pyrt.
										sl.catc zones.bivatves
20		blocky	1.44			A022	SS	fgr.,l/gy,v.thin be	d	bioturb + rip-ups commo
20		blocky	0.37			A023	ss	vfgr.,l/gy,massive		calcareous occ. bivatves
20	85	blocky	0.9			A024	SS	vfgr.,l/gy,lam		massive w common
				ļ						carb lams
21	1	blocky	2.49			A024	55	silty vfgr.,m/gy,la	, m	intbd but mainly mixed
										slsn/ss (15/85), no
										distinct bedding, bioturb
				1			1.			occ.bivalves th/out
22	2 90	blocky	1.8	}		A025	SS	silty, fgr.,m/gy		A/A (5/95) mottled
				1				massive		occ. carb lams. bivlaves
	· ·			1	ľ					horizons
22	2	blocky	0.17		,	A025	sisn	l/gy,massive		calcareous,sandy
23	2	blocky	1.5			A025	ss	silty, massive		mottled,non-calc
23	3	broken	1.51			A026	SS	mgr.,l/gv,massive		minor mixed carb lams
1		blocky	0.26	1		A027	ss	m.gr.l/gy.massive		calc.,A/A.
23	a ac	blocky	1.34			A028	ss	m.gr., I/gy, massiv	6	clean s+p w minor amt
· ·				i i		· ·			1	of carb debris, cale +
1										non-calc zones (40/60)
	1				1	1		,	I .	
						1		}		
	J	J	1		1	1			1	L

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PROJECT	Telkwa	HOLE #	T94R46C	CONTRACTOR	J. T. Thomas
DATE		SITE #	E	LOGGING CO.	BPB
CORE TYPE	NQ			CASING	82' (25m)
GEOLOGIST	Angelo		i i	LOGGER	Al Bretton

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	TO	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
25	88	blocky	1.41			A029	\$\$	mgr.,l/gy,massive	bioturb	massive ss A/A.minor
								1		calc zones.mottled/
									•	biotrbd at base.
		blocky	0.07			A029	silty ss	mgr.,m/gy,massiv	bioturb	mixing zone,ss A/A w/in
		1					1			sisn below.burrowed
25		blocky	1,55			A030	sisn	sandy,m.gy,massi	ve	rare fg.ss intbds at top
				-						non,cale,common
					7					carb lams.common
										bivalve horizons.
										bivalves <1cm-10cm
26		blocky	0.06			A030	slsn	m/gy,massive		A/A
	89	blocky	2.95		•	A031	SS	mgr.l/gy,massive	bioturb.	clean s+p ss w common
										carb lams + bioturb.
										carb lams, calc, nodules
								l.		present esp in upper
										half.burrows.occ.bivalve
	27		1			A032	SS		fgr.l/gy,massive	A/A.carb + sisn lams
		· ·								more common at base
	27	. 79	1.91			A032 .	SS .		fgr.l/gy,v.thin bdg	intbd fgr.ss/sisn 95/10
										sisn=beds to 1cm.carb
										lams common abrupt
										bdg contacts.ssd
	28		0.72			A032	ss		fgr.i/gy,v.thin bdg	A/A .
	28	•	0.1			A033	ss		fgr.l/gy,v.thin bdg	dirty A/A
· ·	28		0.05			A033	mdsn		carb m/br	coaly transition zone
	28		0.1			A033	coal		DK	no pyrite, st.dirty
	28		0.04			A033	mdsh		d/br,carb,massive	no pyrite,plant trags
	28		0.6		*	A033	SS		carb,vtg.m/gy,	dirty vigr.ss. thin coaly/
									massive	carb bands.non-caic
	28	82	0.79			A034	ISS		vig.i/gy,iam	card/sity lams occ.
									for How while half	dirty at top, non-cale
	29		2.00			A034	SS		igragy,vinin bas	
										esp ar base.common
							· ·			tawarda basa gan gala
1			0.00			4025	metan		and he	towards basemon-carc
	29		0.22			1035	and			disty handles
	29		0.05			1035	0.001		mtay ·	dirty cartuing
1	29		0.21			1030	20	,	corb ufor minu	motified common carb
1	30	84	0,84			A030	**		Corn'Alfly 11/8Å	Inotaeo.common caro
		•	0.14			1 .	anal		<b>F</b> F	this man honds with
1	ł		0.14			1 +	coal		6k	clean bard about
			0.37			1 '			UK .	contact w floor
1	00		0.61			4037	eten		dirty ny macelua	dirty population on purity
1	30		0.01			~~~~	aran		001131832140	plact from with
1						1		· ·	-	plane naga white
1	· ·	1 .		1						
1				1	•				· .	
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PROJECT	Telkwa	HOLE #	T9R46C	CONTRACTOR	J. T. Thomas
DATE		SITE #	E	LOGGING CO.	BPB
CORE TYPE GEOLOGIST	NQ		•	CASING LOGGER	82' (25m) Al Bretton

30     blocky     0.2     A038     mdan     b     colai,no pyrife       30     blocky     0.28     A038     elan     m(gy,massive     carb.dirty,mds at top       30     blocky     0.28     A038     elan     m(gy,massive     carb.dirty,mds at top       31     blocky     0.06     A038     mdan     silty,br     carb.dirty,mds at top       31     blocky     0.49     A038     mdan     silty,br     carb.dirty,mds at top       31     blocky     0.49     A040     ss     rig,lgy,massive     carb.dirty,mds at top       31     blocky     0.57     A041     ss     silty,fgr,lgy,massive     carb.dirty,mds frage thou       32     blocky     0.56     A041     ss     sardy,ligy,massive     intbd.sin at top.mortle       32     blocky     0.55     A042     as     rig,rlgy,massive     mortle     bloturb       33     blocky     0.55     A042     ss     fgr,llgy,massive     mortle     bloturb     mortle       34     blocky     0.51     A042     ss     fgr,llgy,massive     mortle     mortle       35     blocky     0.31     A043     ss     fgr,llgy,massive     mortle     act bloturb <tr< th=""><th>BOX MARK</th><th>BCA</th><th>CORE STATE</th><th>INTERVAL THK</th><th>FROM</th><th>ТО</th><th>SAMPLE #</th><th>ROCK TYPE</th><th>DESCRIPTION</th><th>SED STRUCT.</th><th>NOTES</th></tr<>	BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	ТО	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
30blocky0.06A038coalbkditty30blocky0.19A038sinmigy_masivecath.dity_mds at top31blocky0.19A038mdsncolly, bk, masivecath.dity, mds at top31blocky0.49A038mdsncolly, bk, masivecath.dity, mds at top31blocky0.49A040ssfgr, l/gy, massivecath.giny masivecath.giny masive31blocky0.57A041sssilty, fgr, l/gy, massivenn cath.giny masivecath.giny masive31blocky0.56A041sssilty, fgr, l/gy, massivenn cath.giny masivenn cath.giny masive32blocky0.56A042ssvfg., gy, massiveintbd, sin at top. motel32blocky0.55A042ssfgr, massiveintbd, sin at top. motel33blocky0.51A043ssfgr, massiveintbd, sin at top. motel34blocky0.31A043ssfgr, massiveintbd, sin at top. motel35blocky0.31A044ssfgr, l/gy, massiveintbd.tivalve36blocky0.86A045asvfgr, l/gy, massiveintbd.tivalve36blocky0.31A044ssfgr, l/gy, massiveintbd.tivalve36blocky0.31A043ssfgr, l/gy, massiveintbd.top. gr, tag. sins as top. gr, sins as top. gr, sins as top. gr, sins as top. gr, sins as top. gr, sins as top	30		blocky	0.2			A038	mdsn	b		coaly,no pyrite
30     blocky     0.29     A038     sin     m/gy,massive     cab,dity,mass is the construction of the construction	30		blocky	0.08		1	A038	coal	bk		dirty
30     blocky     0.19     A038     mdsn     coly,bk,massive       31     0.08     .039     ss     mdsn     sliv,br,massive       31     blocky     0.49     A040     ss     fgr,l/gy,massive     cab at top,minor amic a disson pyrt, non-cab, coly,bk,massive       31     blocky     0.57     A041     ss     sliv,fgr,l/gy,massive     non-cab,coly,bk,massive       31     blocky     0.56     A041     ss     sliv,fgr,l/gy,massive     non-cab,coly,bk,massive       32     blocky     0.56     A041     sin     sandy,l/gy,massive     bloturb,non-cab, bivalvesth/out, to Zem       33     blocky     0.56     A042     ss     fgr,l/gy,massive     bloturb,non-cab, bivalvesth/out, 5, coc, bivalvest       34     blocky     0.51     A042     ss     fgr,l/gy,massive     non-cab, coc, bivalvest       34     blocky     0.31     A043     ss     fgr,l/gy,massive     nassive bioturb       35     blocky     2.26     A044     ss     fgr,l/gy,massive     massive bioturb       36     blocky     0.31     A043     ss     fgr,l/gy,massive     notal assive bioturb       36     blocky     2.26     A044     ss     fgr,l/gy,massive     inotice,f,no py <t< td=""><td>30</td><td></td><td>blocky</td><td>0.29</td><td></td><td></td><td>A038</td><td>sisn</td><td>m/gy,massive</td><td></td><td>carb.dirty,mdsn at top</td></t<>	30		blocky	0.29			A038	sisn	m/gy,massive		carb.dirty,mdsn at top
31     0.08     A038     mdan     slity.br     thin coll bands to 1cm       31     blocky     0.49     A039     ss     vfgr,Massive     cab at to,minor amts or disson,pyrt, non-cab       31     blocky     0.57     A041     ss     slity.fgr,//gy,massive     non-cab.cnop/ite       31     blocky     0.56     A041     ss     slity.fgr,//gy,massive     non-cab.cnop/ite       32     blocky     0.56     A041     ss     slity.fgr,//gy,massive     non-cab.cnop/ite       32     blocky     0.55     A042     ss     vfg.,//gy,massive     non-cab.cop/ite       33     blocky     0.55     A042     ss     fgr,//gy,massive     non-cab.cop/ite       34     blocky     0.31     A043     ss     fgr,//gy,massive     A044       34     blocky     0.31     A043     ss     fgr,//gy,massive     A04       36     blocky     0.31     A044     ss     fgr,//gy,massive     bloturb     institu-stante       36     blocky     0.36     A044     ss     fgr,//gy,massive     bloturb     institu-stante       36     blocky     0.86     A045     ss     vfgr,//gy,massive     bloturb     instifusition-site       36 <td< td=""><td>30</td><td></td><td>blocky</td><td>0.19</td><td>ł</td><td>1</td><td>A038</td><td>mdsn</td><td>coaly,bk,massive</td><td></td><td></td></td<>	30		blocky	0.19	ł	1	A038	mdsn	coaly,bk,massive		
1.17A039ssvfgr,massivecab at top.minor and of dissen_pyrite fizz.no pyrite fizz.no pyrite 	31		· ·	· 0.08			A038	mdsn	silty,br		thin coal bands to 1cm
31     blocky     0.49     A040     ss     fgr,l/gy,massive     of dissen,pyrt, non-call calc,slow sustained fizz,no pyrite       31     blocky     0.57     A041     ss     silty,fgr,l/gy,massive     non-call-onpyrite.       31     blocky     0.56     A041     ss     silty,fgr,l/gy,massive     non-call-onpyrite.       32     blocky     0.56     A042     ss     sndy,l/gy,massive     difty,plant frags th/out intod,eina t top.mottel       33     blocky     0.5     A042     ss     fgr,l/gy,massive     non-call-onpyrite.       34     blocky     0.31     A043     ss     fgr,m/gy,massive     non-call co.t.bivelves inst th/out.bivelve       34     blocky     2.26     A044     ss     fgr,l/gy,massive     bloturb.       35     blocky     2.26     A044     ss     fgr,l/gy,massive     bloturb.       36     blocky     0.31     A044     ss     fgr,l/gy,massive     bloturb.       36     blocky     0.36     A044     ss     fgr,l/gy,massive     bloturb.       36     blocky     2.26     A044     ss     fgr,l/gy,massive     bloturb.       36     blocky     2.34     A045     ss     fgr,l/gy,massive     bloturb.     ss fo/gr,l/gy,ma				1.17			A039	SS	vfgr,massive		carb at top.minor amts
31     blocky     0.49     A040     ss     fgr,l/gy,massive     cstoplow sustained fizz,no pyrite non-cale.nepyrite biotwork       31     blocky     0.57     A041     ss     sitty,fgr,l/gy,massive sitty,fgr,l/gy,massive     non-cale.nepyrite biotwork       31     blocky     0.56     A041     sin     sandy,l/gy,massive     biotwork       32     blocky     0.55     A042     ss     vfg.gy,massive     biotwork       33     blocky     0.5     A042     ss     fgr.l/gy,massive     non-cale.coc.bivalves       34     blocky     0.31     A043     ss     fgr.l/gy,massive     motifed by bioths, carb lams throut.bivalve       34     blocky     0.31     A043     ss     fgr.l/gy,massive     massive clean ss.no carb lams.non-cale       35     blocky     0.31     A044     ss     fgr.l/gy,massive     sinds sinfss s(5)/95, cale       36     blocky     0.66     A046     ss     vfgr.l/gy,massive     weakly intid with sin sinfs set (5)/95, cale       36     blocky     2.34     A043     ss     fgr.l/gy,massive     weakly intid with sin to carb lams.non-cale       36     blocky     2.34     A046     ss     vfgr.l/gy,massive     weakly intid with sin to carb lams sin/or cale       37     b									-		of dissem.pyrt, non-calc
31     blocky     0.57     A041     ss     silty,fgr,l/gy,massive     fizz,no pyrite       31     blocky     0.56     A041     ss     sinty,fgr,l/gy,massive     bivalvesth/out, to 2cm       32     blocky     2.56     A042     ss     vfggy,massive     biturb     intbd/sisn at top.mottle       33     blocky     0.5     A042     ss     vfggy,massive     non-calc     non-cle.coc.blvalves       33     blocky     2.34     A043     ss     fgr,n/gy,massive     non-cle.coc.blvalves       34     blocky     0.31     A043     ss     fgr,l/gy,massive     massive clean ss.no       34     blocky     2.25     A044     ss     fgr,l/gy,massive     massive clean ss.no       34     blocky     2.25     A044     ss     fgr,l/gy,massive     massive clean ss.no       35     blocky     1.77     A045     ss     fgr,l/gy,massive     bloturb     mottled birb star/ss(10/90).non-calc, no py       36     blocky     2.34     A047     ss     fgr,l/gy,massive     weakly inthid w sin rip       37     blocky     2.87     A048     ss     fgr,l/gy,v.thin bdg     A/A. common chin       37     blocky     2.87     A048     ss     fgr,l/	31		blocky .	0.49			A040	55	fgr,l/gy,massive		calc, slow sustained
31     blocky     0.57     A041     ss     silty,fgr,l/gy,massive     non-calc.nopyrite.       31     blocky     0.56     A041     sln     sandy,l/gy,massive     bioturb       32     blocky     2.56     A042     ss     vfgr,gy,massive     bioturb       32     blocky     0.5     A042     ss     vfgr,gy,massive     bioturb       33     blocky     0.5     A042     ss     vfgr,gy,massive     bioturb       34     blocky     0.31     A043     ss     fgr,l/gy,massive     A04       34     blocky     0.31     A044     ss     fgr,l/gy,massive     mattled by bioth slaws       34     blocky     2.26     A044     ss     fgr,l/gy,massive     massive clean ss.no       35     blocky     0.31     A045     ss     vfgr,l/gy,massive     bioturb     intited bints slans       36     blocky     0.66     A046     ss     vfgr,l/gy,massive     bioturb     sanstled, slans sind       37     blocky     2.87     A048     ss     fgr,l/gy,v.thin bdg     A/A       37     blocky     2.87     A048     ss     fgr,l/gy,massive     concetiencey bands to 5m,nor-celo       37     blocky     2.87											fizz,no pyrite
31     blocky     0.56     A041     slan     sandy.//gy,massive     bioturb     dirty.plant frags th/out       32     82     blocky     2.56     A042     ss     vfg.,gy,massive     bioturb     intbd.slan at top.mottle       33     blocky     0.5     A042     ss     vfg.,gy,massive     bioturb     non-calc     con-calc       33     blocky     0.51     A042     ss     fgr.//gy,massive     bioturb     non-calc     con-calc     non-calc     con-calc     non-calc     coc-charlast       34     blocky     0.31     A043     ss     fgr.//gy,massive     AA     massive clean ss.no     carb lams th/out.bivave       34     blocky     2.25     A044     ss     fgr.//gy,massive     AA     massive clean ss.no     carb lams.non-calc       35     blocky     2.26     A044     ss     vfgr.//gy,massive     bloturb     matted biott stanss       36     blocky     0.66     A046     ss     vfgr.//gy,massive     us clean ss.no     carb lams.sion/calc, no py       36     blocky     2.87     A048     ss     fgr.//gy,massive     watkle into th with stan right watkle into the stanss     se (9/10) matted with stan right watkle into the watkle into the stan right watkle into the stanse       36 <td>31</td> <td></td> <td>blocky</td> <td>0.57</td> <td></td> <td></td> <td>A041</td> <td>SS</td> <td>silty,fgr,l/gy,mass</td> <td>ive</td> <td>non-calc.nopyrite.</td>	31		blocky	0.57			A041	SS	silty,fgr,l/gy,mass	ive	non-calc.nopyrite.
31blocky0.56A041stnsandy,l/gy,massivedirty,plant frags th/out32blocky2.56A042ssvfg.gy,massivebioturbintbd.slsn at op.calc32blocky0.5A042ssfgr.,l/gy,massivebioturbintbd.slsn at op.calc33blocky2.94A043ssfgr.,l/gy,massivenon-calcoc.cc.bivalves34blocky0.31A044ssfgr,m/gy,massiveA/A34blocky2.26A044ssfgr,l/gy,massivemassive clean ss.no35blocky2.26A044ssfgr,l/gy,massiveintbd.slsn at op.calc36blocky0.66A046ssvfgr,l/gy,massivebloturbmottled bloth sitn/ss36blocky2.34A046ssvfgr,l/gy,massivemassive clean ss.norcarb lams.on-calc37blocky2.34A046ssvfgr,l/gy,massivemottled bloth sitn/ssvfgr,l/gy,massivebloth sitn/ss37blocky2.87A048ssfgr,l/gy,massivemottled. V lbr sls.nist/ssssvfgr,l/gy,massivessss37blocky2.87A048ssfgr,l/gy,v.thin bdgA/Acommon thin intbd vfg.ss calcssfgr,l/gy,v.thin bdgA/A38blocky2.87A048ssfgr,l/gy,v.thin bdgssssssss39blocky2.87A048ssfgr,l/gy,v.thin bdgss <td< td=""><td></td><td>1</td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td>bivalvesth/out, to 2cm</td></td<>		1	-								bivalvesth/out, to 2cm
3282blocky2.56A042ssvfggy,massive blockybloturb blotub,non-cileintbd.sisn at cop.mettie blotub,non-cile32blocky0.5A042ssfgr.,i/gy,massive fgr.m/gy,massivenon-cile.coc.blvalves notided by bloth.can blank34blocky0.31A043ssfgr.m/gy,massive fgr.M/gy,massiveA/A34blocky0.31A044ssfgr.m/gy,massive fgr.M/gy,massiveA/A34blocky2.26A044ssfgr./l/gy,massive fgr.l/gy,massivebloturb35blocky1.77A045ssvfgr.l/gy,massive fgr.l/gy,massivebloturb36blocky0.66A046ssvfgr.l/gy,massiveblotwb36blocky2.34A043ssfgr.l/gy,massivemottided by blots fan.se fgr.l/gy,massive37blocky2.87A048ssfgr.l/gy,v.thin bdgmottide ds/s/ss = fgr.l/gy,ol anottide blots fan.se sac fgr.l/gy,massivefgr.l/gy,massive37blocky2.87A048ssfgr.l/gy,v.thin bdgA/A.common thin intbd s/s/ss = fgr.l/gy,v.thin bdg	31		blocky	0.56			A041	slsn	sandy,1/gy,massiv	e	dirty,plant frags th/out
32blocky0.5A042ssfgr.,l/gy,massivebloturb,.non-cale33blocky2.94A043ssfgr.,m/gy,massivenon-cale	32	82	blocky	2.56	· ·		A042	SS	vfg.,gy,massive	bioturb	intbd,sisn at top.mottled
32blocky0.5A042ssfgr.,l/gy,massivenon-celc. occ. hive/sea33blocky2.94A043ssfgr,m/gy,massivemottled by biotrb. carb34blocky0.31A044ssfgr,m/gy,massivemottled by biotrb. carb34blocky2.26A044ssfgr,l/gy,massivemottled biotrb34blocky2.26A044ssfgr,l/gy,massivemottled biotrb35blocky1.77A045osvfgr,l/gy,massivebloturbbloth stir/ss36blocky0.66A046ssvfgr,l/gy,massivemottled biotrb stir/sssmottled36blocky2.34A047ssfgr,l/gy,massivemottled. with sin ra rare.op yritemottled. with sin ra sssin ra ss eff./gy,massivemottled. with sin ra ss37blocky2.87A048ssfgr,l/gy,w.thin bdgA/A. common thin intbd vfs.sc alc concretience ybads to 5cm.intbd ss/ssr.sfgr,l/gy,w.thin bdgA/A. common thin intbd vfs.sc alc concretience ybads to 5cm.intbd ss/ssfgr,l/gy,w.thin bdgA/A. common thin intbd vfs.sc alc concretience ybads to 5cm.intbd ss/ss											bioturb.,non-calc
33blocky2.94A043ssfgr.m/gy,massivemottled by blotrb, carb lams th/out.bivalve34blocky0.31A043ssfgr.m/gy,massiveA/A34blocky2.26A044ssfgr.l/gy,massivearb lams.on-calc carb lams.on-calc34blocky2.26A044ssfgr.l/gy,massivebloturbmottled blotrb star/ss (10/90).non-calc.on py pyrite,carb lams.35blocky1.77A045asvfgr.l/gy,massivebloturbblotrb sitry ss.mottled sfar/ss = (5/95). calc zones up to 10em wfile36blocky0.66A046ssvfgr.l/gy,massivemottled. w l/br slan rip- ups clasts.on-calc to 10em wfile36blocky2.34A047ssfgr.l/gy,massivemottled. w l/br slan rip- ups clasts.on-calc to 10em wfile37blocky2.87A048ssfgr.l/gy,wassivemottled.37blocky2.87A048ssfgr.l/gy,v.thin bdgA/A37blocky2.87A048ssfgr.l/gy,v.thin bdgA/A37blocky2.87A048ssfgr.l/gy,v.thin bdgA/A37blocky2.87A048ssfgr.l/gy,v.thin bdgA/A37blocky2.87A048ssfgr.l/gy,v.thin bdgA/A37blocky2.87A048ssfgr.l/gy,v.thin bdgfgr.l/gy,sc	32		blocky	0.5			A042	ss	fgr.,l/gy,massive		non-caic. occ.bivalves
34blocky0.31 0.31A043 A044ssfgr,l/gy,massive fgr,l/gy,massivelams th/out.bivalve horizons.rare cale zones A/A massive clean ss.no carb lams.non-cale or to lams.non-cale (10/90).non-cale.on py pyrite,carb lams34blocky2.26A044ssfgr,l/gy,massive fgr,l/gy,massivebloturbmitibility star/ss (10/90).non-cale.on py pyrite,carb lams35blocky1.77A045asvfgr,l/gy,massive (10/90).non-cale.on py blotwblotw bitry star/ss pyrite,carb lams36blocky0.66A046ssvfgr,l/gy,massivemottled slar/ss rare.no pyrite rare.no pyrite ss = fs/95).cale36blocky2.34A047ssfgr,l/gy,massiveweakly intid wish to to rare.on pyrite,carb lams. star/st star/ss ss = fgr,l/gy,massive37blocky2.87A048ssfgr,l/gy,v.thin bdgA/A, common thln intid vfg.ss cale concretiemery bands to 5em.intid st/sisten37blocky2.87A048ssfgr,l/gy,v.thin bdgA/A, common thln intid vfg.ss cale concretiemery bands to 5em.intid st/sisten	33		blocky	2.94			A043	ss	fgr,m/gy,massive	bioturb	mottled by biotrb, carb
34     blocky     0.31     A043     ss     fgr,m/gy,massive     A/A       34     blocky     2.26     A044     ss     fgr,l/gy,massive     bloturb     matter blans.non-calc       35     blocky     2.26     A044     ss     fgr,l/gy,massive     bloturb     ft/0/00.orthotalsn/ss       35     blocky     1.77     A045     ss     vfgr,l/gy,massive     bloturb     ft/0/00.orthotalsn/ss       36     blocky     0.66     A046     ss     vfgr,l/gy,massive     matter bloturb/stan/ss       36     blocky     0.66     A046     ss     vfgr,l/gy,massive     matter bloturb/stan/ss       37     blocky     2.87     A048     ss     fgr,l/gy,v.thin bdg     A/A       37     blocky     2.87     A048     ss     fgr,l/gy,v.thin bdg     A/A				}	· ·	· ·					lams th/out.bivalve
34       blocky       0.31       A043       ss       fgr,//gy,massive       A/A         34       blocky       2.26       A044       ss       fgr,//gy,massive       massive cleansn-calc carb lams.no-calc carb lams.no-calc carb lams.sno-calc carb lams.sno-calc         35       blocky       2.26       A044       ss       fgr,//gy,massive       bioturb       mattled biotrb slsn/ss         35       blocky       1.77       A045       ss       vfgr,.//gy,massive       bioturb       biotrb slisp ss.mottled slsn/ss = (5/95), calc zones up to 10cm w/in rare.no pyrite.sts lams         36       blocky       0.66       A046       ss       vfgr,l/gy,massive       weakly inbd w slsn to 10cm w/in rare.no pyrite.sts non-calc         36       blocky       2.34       A047       ss       fgr,l/gy,massive       weakly inbd w slsn to 10cm w/in rare.no pyrit.earb lams.slsn.         37       blocky       2.87       A048       ss       fgr,l/gy,v.thin bdg       A/A.comon thin lintd vf,ss calc concretiemery bands to 50m/intd vf, sc calc zones up to 10cm with st to 10cm with st to 10cm with st to 50m/intd vf, sc calc zones up to 10cm with st to 50m/intd vf, sc calc concretiemery bands to 50m/intd vf, sc calc concretiemery bands to 50m/intd vf, sc calc concretiemery bands to 50m/intd vf, sc calc concretiemery bands to 50m/intd vf, sc calc concretiemery bands to 50m/intd vf, sc calc concretiemery bands to 50m/intd vf, sc calc concretiemery bands to 50m/intd vf, sc cal				· ·							horizons.rare calc zones
34blocky2.26A044ssfgr,l/gy,massivemassive clean ss.no carb lams.non-calc34blocky2.26A044ssfgr,l/gy,massivebioturbmotive clean ss.no carb lams.non-calc35blocky1.77A045ssvfgr,.l/gy,massivebioturbmotive clean ss.no carb lams.non-calc36blocky0.66A046ssvfgr,l/gy,massivemotive clean ss.no (10/90).non-calc,non-calc, non-calc, non-c	34		blocky	0,31			A043	\$\$	fgr.m/gy.massive	1	A/A
34       blocky       2.26       A044       ss       fgr,l/gy,massive       bloturb       carb lams.non-calc mottled blotorb slsr/ss (10/90).non-calc.no py (10/90).non-calc.no py printe, carb lams         35       blocky       1.77       A045       ss       vfgr,l/gy,massive       bloturb       bloth bit bit y ss.mottled sisn/ss = (50/10).sisn to the sisn/ss = (50/10).sisn to the sisn/ss = (50/10) = mottled         36       blocky       0.66       A046       ss       vfgr,l/gy,massive       mottled. w l/br sisn ripups clasts non-calc         36       blocky       0.66       A046       ss       vfgr,l/gy,massive       mottled. w l/br sisn ripups clasts non-calc         36       blocky       2.34       A047       ss       fgr,l/gy,massive       weakly into w sisn to the sisn/ss = (50/10) = mottled         37       blocky       2.87       A048       ss       fgr,l/gy,v.thin bdg       A/A. common thin intod vfg.ss calc concretiemery bands to 5cm.nithed w blocks/stripted lams.sisn/ss calc concretiemery bands to 5cm.nithed by blocks/stripted lams.sisn/ss calc				0.31			A044	SS	fgr,l/gy,massive		massive clean ss.no
34blocky2.25A044ssfgr,l/gy,massivebloturbmottled bloths blan/ss35blocky1.77A045ssvfgr,l/gy,massivebloturbmottled bloth slan/ss36blocky0.66A046ssvfgr,l/gy,massivemottled bloth slan/ss36blocky0.66A046ssvfgr,l/gy,massivemottled bloth slan/ss36blocky2.34A047ssvfgr,l/gy,massivemottled bloth slan/ss37blocky2.87A048ssfgr,l/gy,v.thin bdgA/A. common thin intbd vfg.ss calc concretimery bands to 5cm.intbd ss/sisn=37blocky2.87A048ssfgr,l/gy,v.thin bdgA/A. common thin intbd vfg.ss calc concretimery bands to 5cm.intbd ss/sisn=											carb lams.non-calc
35       blocky       1.77       A045       ss       vfgr.,l/gy,massive       blocky bitth silly ss.muttled sisn/ss = (5)50. celc zones up to 100cm w/in rare.no pyrite         36       blocky       0.66       A046       ss       vfgr,l/gy,massive       mottled. w l/br sils rip-ups clasts.non-celc         36       blocky       2.34       A047       ss       fgr,l/gy,massive       mottled. w l/br sils rip-ups clasts.non-celc         37       blocky       2.87       A048       ss       fgr,l/gy,v.thin bdg       A/A. common thin intbd vfg.ss celc concetiemery bands to 5/sin = [90/10] = mottled bbit/log mottled bb	34		blocky	2.26			A044	\$5	fgr,l/gy,massive	bioturb	mottled biotrb sisn/ss
35blocky1.77A045ssvfgr.,l/gy,massivepyrite,carb lams blotrb silty ss.mottled sisn/ss = (5/95). calc zon/ss up to 10cm w/m rare.no pyrite36blocky0.66A046ssvfgr,l/gy,massivemottled. w l/br silsn rip- ups clasts.non-calc ups clasts.non-calc36blocky2.34A047ssfgr,l/gy,massiveweakly inthd w sisn to ups clasts.non-calc ups clasts.non-calc blocky37blocky2.87A048ssfgr,l/gy,v.thin bdgA/A. common thin intbd vfg.ss calc concretiemery bands to 50/10 = mottled bb blocky			-	· ·							(10/90).non-calc,no py
35       blocky       1.77       A045       ss       vfgr.,l/gy,massive       biotrb silty ss.mottled       slsn/ss = (5/95), cele       zones up to 10cm w/in         36       blocky       0.66       A046       ss       vfgr,l/gy,massive       mottled, w l/br slsn rip-         36       blocky       2.34       A047       ss       fgr,l/gy,massive       weakly intbd w slsn to         37       blocky       2.87       A048       ss       fgr,l/gy,v.thin bdg       A/A. common thin         37       blocky       2.87       A048       ss       fgr,l/gy,v.thin bdg       A/A. common thin         90/10) = mottled       ss       100, with the size slash size			•		i		1				pyrite, carb lams
36       blocky       0.66       A046       ss       vfgr,l/gy,massive       rare.no pyrite         36       blocky       2.34       A047       ss       fgr,l/gy,massive       motion         36       blocky       2.34       A047       ss       fgr,l/gy,massive       weakly intbd w sisn to 1cm + carb lams, sisn/ss = (90/10) == motifed         37       blocky       2.87       A048       ss       fgr,l/gy,v.thin bdg       A/A. common thin intbd vfg.ss calc concretiemery bands to 5/sisn = (90/10) = motifed by blocky	35		blocky	1.77			A045	ss	vfgr.,l/gy,massive		biotrb silty ss.mottled
36       blocky       0.66       A046       ss       vfgr,l/gy,massive       motiled, w l/br sisn ripurs clasts.mon-calc         36       blocky       2.34       A047       ss       fgr,l/gy,massive       motiled, w l/br sisn ripurs clasts.mon-calc         36       blocky       2.34       A047       ss       fgr,l/gy,massive       weakly inthd w sisn to icm k/m sisn calc         37       blocky       2.87       A048       ss       fgr,l/gy,v.thin bdg       A/A. common thin inthd vfg.ss calc         37       blocky       2.87       A048       ss       fgr,l/gy,v.thin bdg       A/A. common thin inthd vfg.ss calc         37       blocky       2.87       A048       ss       fgr,l/gy,v.thin bdg       A/A. common thin inthd vfg.ss calc         37       blocky       2.87       A048       ss       fgr,l/gy,v.thin bdg       A/A. common thin inthd vfg.ss calc		i	••			1			•		sisn/ss ⇔ (5/95). calc
36       blocky       0.66       A046       ss       vfgr,l/gy,massive       motiled. w l/br sisn rip- ups clasts.non-calc         36       blocky       2.34       A047       ss       fgr,l/gy,massive       weakly intbd ws sin to 1 cm + carb lams. sisn/ ss = (90/10) = motiled         37       blocky       2.87       A048       ss       fgr,l/gy,v.thin bdg       A/A. common thin intbd vfg.ss calc concretiemery bands to 5cm.intbd sysisn = (90/10) = motiled						1		-			zones up to 10cm w/in,
36     blocky     0.66     A046     ss     vfgr,l/gy,massive     mottled. w l/br slsn rip- ups clasts.non-calc       36     blocky     2.34     A047     ss     fgr,l/gy,massive     weakly intbd wslsn to 1cm + carb lams. slsn/ is or + carb lams. slsn/ is or + carb lams. slsn/ is or + carb lams. slsn/ is or + carb lams. slsn/ is or + carb lams. slsn/ is or + carb lams. slsn/ intbd vfg.ss calc concretiemery bands to 5cm.intbd sk/sisn = (90/10) = mottled bb bling						1					rare.no pyrite
36     blocky     2.34     A047     ss     fgr,l/gy,massive     ups clasts.non-calc       36     blocky     2.34     A047     ss     fgr,l/gy,massive     weakly intid w sin to 1 cm + carb lams. sinst/ is cm + carb lams. sinst/ is or (30/10) = mottled       37     blocky     2.87     A048     ss     fgr,l/gy,v.thin bdg     A/A. common thin intbd vfg.ss calc concretiomery bands to 5cm.intbd ss/sin =	36		blocky	0.66		.	A046	ss	vfgr,l/gy,massive		mottled, w l/br sisn rip-
36     blocky     2.34     A047     ss     fgr,l/gy,massive     weakly intbd w sisn to 1cm + carb lams. sisn/ ss = (90/10) = motified bit/h.no pyrt,carb lams       37     blocky     2.87     A048     ss     fgr,l/gy,v.thin bdg     A/A. common thin intbd vfg.ss calc concretiomery bands to 5/sin =								ł			ups clasts.non-calc
37       blocky       2.87       A048       ss       fgr.l/gy,v.thin bdg       A/A. common thin intbd vfg.ss calc concretienery bands to 5cm.intbd s/slsn = [90/10] = mottled biotrb.no	36		blocky	2.34			A047	55	fgr,i/gy,massive		weakly inthd w sisn to
37 blocky 2.87 A048 ss fgr.l/gy,v.thin bdg A1A. common thin intbd vfg.ss calc concretienery bands to 5cm.intbd sy/sisn=			-						1		1cm+carb lams. slsn/
37 blocky 2.87 A048 ss fgr.l/gy,v.thin bdg A/A. common thin intbd vfg.ss calc concretiemery bands to 5cm.intbd sy/sisn=											ss = (90/10) = mottled b
37 blocky 2.87 A048 ss fgr.l/gy,v.thin bdg A/A. common thin intbd vfg.ss calc concretiemery bands to 5cm.intbd ss/sisn =											biotrb.no pyrt,carb lams
intbd vfg.ss calc concretiemery bands to 5/sin = 1901/01 = matt/ad by bit	37	1	blocky	2.87			A048	ss	fgr,l/gy,v.thin bdg		A/A. common thin
concretiemery bands to 5cm.intbd ss/sisn = (90/10) = mottled by bi											intbd vfg.ss calc
to 5cm.intbd ss/sisn = (90/10) = mattled by bi			× .	1				ŀ			concretiemery bands
(90/10) = mottled by bi											to 5cm.intbd ss/sisn =
						I.			•		(90/10) = mottled by blot
no pyrt, carb tams					1						no pyrt.carb lams
38 blocky 2.96 A049 ss fgr,l/gy,massive massive ss w common	38		blocky	2.96			A049	ss	fgr,l/gy,massive		massive ss w common
carb lams th/out + occ.					1						carb lams th/out+occ.
calc sisn layers to 5cm			1	ľ	1.	1			I .		calc sisn layers to 5cm
sisn=si.caic.rare pyrt											sisn=sl.calc.rare pyrt
blabs + bands, pyrt too											blobs + bands, pyrt too
39 blocky 2.8 A050 ss fgr, J/gy, massive A/A burrows, biotrb+	39		blocky	2.8			A050	ss	fgr,.l/gy,massive		A/A burrows,biotrb+
wavy bdg w/in carb lan		l	1				1		1		wavy bdg w/in carb lams
40 v.broko 0.5 A05 ss fgr.l/gv,massive A/A 1	40	-	v.broke	0.5		1	A05	ss	fgr,l/gy,massive		A/A 1

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PROJECT	Telkwa	HOLE #	T94R46C		CONTRACTOR	J. T. Thomas	
DATE		SITE #	E		LOGGING CO.	BPB	
CORE TYPE	NQ				CASING	82' (25m)	
GEOLOGIST	Angelo			•	LOGGER	Al Bretton	

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	то	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
41		blocky	3.02			A051	SS ,	fgr,l/gy,v.thin bdg	1	intbd fgr.ss/slsn 95/90
			-							sharp bdg contacts.
										sisn beds to 1cm. sl
										wavy bdg.rare calc zones
42	1	crushed	0.28			A052	ss '	fgr,l/gy,v.thin bdg		A/A clean ss w occ. sisn
		blocky	0.75			A052	ss	fgr,l/gy,v.thin bdg	I	roof.clean,hard w sisn
										beds to 1cm.no pyrt
42		blocky	.0,36			A053	ss	fgr,gy		biotrb roof.blotrb intbd
×				· .						carb lams/sisn/ss
		1								(10/15/75) non-calc
							·			no pyrt, abrupt contact
42	90	blocky	0.03			A054	coal	bk	•	
		broken	0.05			A054	mdsn .	bk,platy		carby,no pyrt,non-cale
		blocky	0.08			A054	mdsn	br,massive		no visible pyrt
42		blocky	0.05		l.	· 2	coat	bk		dirty coal, thin mdsn band
		blockybroken	0.92		1	2	coal	bk		
		blocky	0.06			· 3	mdsn .	caro,br,massive		v.coaly
		broken	0.17			3	coal	bk		
42		blocky	0.11			3	coal	bk		
43	1	blocky	0.39			4	coat .	bk		hard,clean
	ł	blocky	0.17		1	5	coal	bk		thin mdsn bands w/in
	1	bicoky	0.26			5	coal	bk <sup>.</sup>		hard,clean
		blocky	0.07			5	coal	bk		sl.dirty lower 2cm = clean
		blocky	0.2			6	mdsn	br,carb,massive		minor pyrt along bdg
		blocky	0.18			7	coal ,			clean
		blocky	0.02			7	coal			dirty,mdsn bands
		blocky	0.02			7	mdsn	br		carb
		blocky	0.01			. 7	coal			dirty bands
		blocky	0.23			7	coal			si.dirty at base minor pyr
		blocky	0.11			A055	mdsn			small pyrt blebs at base
		blocky	0.13	· ·		A055	coal			sl.dirty.pyrt on cleat face
		blocky	0.11			A055	mdsn	· ·		plant frags th/out.no pyrt
		blocky	0.02			A055	coal			clean
		blocky	0.1			A055	mdsn			coaly at base
		DIOCKY	0.13	•		] 8	coat			dirty,mdsn+sisn bands
		L					Ι.			up to 0.5cm th/out
		DIOCKY	0.49			8	coal			hard,clean
		v.proken	0.28			AUSO	musn	a/gy,massive	1	caro.plant trags th/out
1 44	'l	DIOCKY	0,3	· ·	•	A056	Imasn	lok/gy,caro,massiv	/0	I COBIY BT DASE
44	'l	DIOCKY	0.07			9	coal	ok,v.thin bag		Intod coal/mosh 65%
44	·	DIOCKY	0.56			9	Coal	DK		nubir oyrt akibg ckeat
								<b>.</b> .	· ·	races, clean, hard
44	'	DIOCKY	0.2			10	COBI	DK	I.	dirty coal no pyrt
44	·	DIOCKY	0,08		1	11	masn	m/gy,massive,silt	Y I	non-calc
		L	0,46			12	coal	ы	1	si dirty
44	'l	blocky	0.43			A057	mdsn	carb,dk.gy,massiv	/0 1	v.coaly at top, carb at
			ļ ',							base,biotrb.voicanic
		<u> </u>			I	1	L	L		[rx frag w/in, floor #1

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PROJECT	Telkwa	Hole #	T94R46C	CONTRACTOR	J. T. Thomas
DATE		Site #	E	LOGGING CO.	BPB
CORE TYPE GEOLOGIST	NQ Angelo			CASING	82' (25m) Al Bretton

BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	<u>TO</u> ,	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT,	NOTES
44		blocky	0.86			A058	mdsn	wh, massive		vol. tuff? milky gr
			0.7			A058	mdsn	silty		A/A increas gr size
		,			1					toward base
45		broken	1,55			A059	ss	mgr.m/gy,massiv		consists of vol rx frags.
						•				non-cale, coarsening
			-							up sequence
. 45		blocky	0.33	1		A059	mdsn	cgr,m/gy,massive		A/A.coalrs vol.rk gr
				1						well mixed w/in mdsn
				1						matrix.non-cale.no pyrt
46		broken	0.53			A059	mdsn	dk/gy,massive		mdsn matriz w occ.
	•									car, of vol rx?
46		blocky	0.51			A060	mdsn	carb.dk.gv.massiv	/8	dense mdsn w occ. or
		·							Ī	of whimica + vol rk frags
46		blocky	0.2			A060	mdsn	carb.bk		mixed coal/mdsn (~25%)
										minor ovrt along fract
46		v.broken	0.65			A061	mdsn	Vov.massive		v.dense.bard w.common
• •										rip up clasts of coal/
										mdsn no pyrt
47		broken	0.78			A061	mdsn	carb.dk/ov.massiv	1 /ê	abrupt contact w lower con
47		broken	1.52			A062	conal.	40% matrix/50%	Ĩ	matrix supported copol
,								nebbles		w nebblen un to 10cm
	•									of artz vol rx.ss. poody
		1					l .			sorted nebbles from
		1								cor.ss to 10cm
- 48		broken	2.42			A063	coñal	av		A/A.abrupt erosioni
							¢-	01		contact w underlying
		1								mdsn.cor. matri = si.caic
48		broken	0.52			A064	mdsn	carb.l/br.massive		coal debris inc w/in
					· ·			· · ·		mdsn.mixed mdsn
					:				•	carb/coal, v.coalv at top
49		broken	0.55		ł	A064	mdsn	dk/br.massive.car	b	mdsn A/A w thin coaly
					•				Ī	bands/blebs to 1.5cm.
										v.rare thin bands cor.ss
49		broken	0.06			A065	mdsn	carb bk.massive		w/in non-cale.no pyrt l
49		v.broken	0.1			A065	coal	bk		dirty ~60% coal
49		blocky	0.02			A065	mdsn	bk		carb
49		v.broken	0.11			A065	coal	bk		dirty '
49		v.broken	0,15		1	A065	mdsn	bk,massive		v/coal ~30% coal
49		v.broken	0.09		1	A065	coal	bk		clean
49		broken	0.19		ľ.'	A065	mdsn			v.coaly ~45%coal
49		broken	0.18		1	A065	mdsn	}		carb
49		blocky	0.16			A065	coal	bk '		dirty bands w/in
			0.02			A065	mdsn		•	
49		crushed	0.03	l.		A065	coal			
49		blocky	0.13			A065	mdsn	carb		
. 50		broken	2.53			A066	sisn	m/br.massive.md	1 30	dirty sisp w occ.thin
				1	1		· · ·		<u> </u>	coaly zones/blabs to
					1		· ·		i i	2cm, non-calc sheared
	1,	r				1			l	

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PROJECT	Telkwa	HOLE #	T94R46C	CONTRACTOR	J. T. Thomas
DATE		SITE #	E	LOGGING CO.	BPB
CORE TYPE GEOLOGIST	NQ Angelo			CASING LOGGER	82' (25m) Al Bretton

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BOX MARK	BCA	CORE STATE	INTERVAL THK	FROM	то .	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
		blocky	0.03			A066	coal	bk		
50	1	broken	0.21	:		A066	slsn	m/br.massive	,	short gradational
	1									contact w underlying ss
•		blocky	0.22			A067	ss	cor.I/ov.massive		clean.hard.non-calc
	ł	DIGGRY	V.L.L			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<b>*</b>	- and a structure		s + n ss
-		healtan	0.22			1067		one linu maasiya		A/A and each inme
51		Dioken	0.33			A007	55	cyr.i/gy,massive		ArAloccical Janis
		ыеску	1.95			A068	5\$	siity,massive	-	overall fining up seq.
										sish at top grading to
										fgr.ss at base, no bdg
51		blocky	0.68			A068	SS	cgr.l/gy,massive		con't A/A.fining up fgr.
				i			,			ss at base grading to
										cgr.ss at base. v.sl.calc
52		blocky	0.12			A068	SS	cgr.l/gy,massive		A/A. rip up clast of
		l '								underlying rx at base
52	1	blocky'	0.56			A069	ss	vfgr.l/gv.massive	1	
	1	blocky	0.71			A070	mdsn	silty.massive		siltier at base.non-calc
-		blocky	0.05			A070	cosi			v dirty banded
		blocky	1 22			10/0	mden	cilty libr marries		silty zones oradioa from
54		DIOGKY	1.52				muan	2014410110022148		anty zones,grading nom
										mush to sish. occ.
		1								carb/coaly bed to 0.5cm
53		plocia	2,8			A071	sisn	m/br,massive		A/A. siity mosh at top
							1			grading to dirty sish at
								, s		base.non-calc.plant frage
54		blocky	2.76			A072	sisn	m/br,massive		rare plant frags. carb
			. · .				i	Ι		at base.non-calc
			0.2	1		A073	mdsn .	dk/br,carb,masslv	8	v.coaly.monor coal
			0.96			A073	ss	l/br.massive		gradual fining up seq.
				1						mdsn at top to cor.ss
										at base, sl.calc cor.ss
		blocky	1.67			A073	elen	libr massive sands	1	massive size w occ
		DIOCKY				1,0,0		1,0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<b>7</b> 1	carb mottled nero, to
	1			· ·					1	bda papiacia no purt
										bog.non-cale. no pyre
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PROJECT DATE	Telkwa	HOLE # SITE #	T94R08C	CONTRACTOR LOGGING CO.	J. T. Thomas BPB
CORE TYPE GEOLOGIST	NQ Angela			CASING LOGGER	82' (25m) Al Bretton

BOX	MARK		BCA	CORE STATE	INTERVAL THK	FROM	то	SAMPLE #	ROCK TYPE	DESCRIPTION	SED STRUCT.	NOTES
		1		broken	2.9	131.1	134		mdsn	at top, grading to		massive. occ. plant
				,						dirty sisn at base		frags
		2		broken	2.28	134	136.3	]	sisn	thin coal beds		occ. pyrt band
		3		crumbly	2.7	136.3	139		sisn	A/A '		grading to vfgr.ss
		4	_	blocky	2.9	139	141.9		ss	vfgr.		bivalves th/out
		5	7	6	2.9	141.9	144.5		A/A	A/A		grading to c.ss beds
	•											at base.tining up seq.
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Hole Id: T94R01

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Hole:	T94R01		Proj	ject:	TELKWA DI	RILLING	G 1994		
Site:	25		Date	e Fin	ished: 08,	/17/94	(Month/	Day/Year)	,
Torren	s Locatio	on:						•	
lsd	sect	twp	rg	w	Litholog	y by:	Don	·	
					Drill (	Contr:	McAuley	Drilling	J
Survey	ed Locat:	ion:			Dr	iller:	Don		
N:	0.0	_			Geoph.	Comp:	Century	Geophysi	cal
E:	0.0								
EL:	0.0		•	•		Logs:	gamma		sonic
							densi	ty	neutron
Casing	: 0.0						calip	er	electric
Case. T	ype:						verti	cality	dipmeter
Downho:	Downhole Units: Feet .								
							other	:	

Comments:

.

DEPTH (ft)	DEPTH   DESCRIPTION (m)	COMMENTS
10.0	3.05   till .	rocks
38.0	11.59   silty mudstone	
40.0	12.20 - COAL (clean)	- ·
48.0	14.64   sandy siltstone, light gray	I
51.0	15.56   silty mudstone, dark gray	1
52.5	16.01 - sandy siltstone, light gray	-
54.5	16.62   COAL (clean)	some carb sh.
54.8	16.71   silty mudstone	
61.0	18.61 - COAL (clean)	- with some carb sh.
79.0	24.10   silty mudstone .	1
80.5	24.55   COAL (clean)	1
95.0	28.98 - silty mudstone, light gray	-
103.0	31.42   sandy siltstone, light gray	
105.0	32.03   COAL (dirty)	1
126:0	38.43 - sandy siltstone, light gray	-
132.0	40.26   silty mudstone	1
138.0	42.09   sandy siltstone	1.
165.0	50.33 - sandstone (fine), light gray	
243.0	74.11   sandstone (coarse)	volcanic
246.5	75.18   COAL	1
250.5	76.40 - sandy siltstone	-
257.0	78.39   COAL	and carb sh.
276.0	84.18   silty mudstone, light gray, medium soft	and coarse sandstone

HOT6:	T94K02		Pro	ject:	Telkwa D	riiing	1994		
Site:	27		Dat	e Fin	ished: 08	/17/94	(Month/Day/Year	)	
Torren	is Locati	.on:	•						
lsd	sect	twp	rg	w	Litholo	gy by: 1	Don		
					Drill	Contr:	Cora Lynn Drill	ing	
Survey	ed Locat	ion:			Dr	iller: 1	Dean		
N: 6	049741.9	I			Geoph.	Comp:	Century Geophys	ical	
E:	618353.7	,							
EL:	_ 0.0	I			•	Logs:	gamma	sonic	
					•	-	density	neutron	
Casing	r: 0.0	I					caliper	electric	
Case T	ype:						verticality	dipmeter	
Downho	le Units	: Fe	et						
							other:		

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Comments:

 DEPTH
 DEPTH
 DESCRIPTION
 COMMENTS

 (ft)
 (m)
 |
 |

 29.0
 8.85
 mudstone, light green, hard
 |
 black metallic specks, clear specks

 74.0
 22.57
 mudstone, light brown, hard
 |
 black metallic specks, clear specks

# Downhole Cuttings Description Program Ver 1.00

Hole Id: T94R03

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Hole:	T94R	103		Pro	ject:	Telkwa Dr	illing	1994	
Site:	26			Date	e Fin	ished: 08/	18/94	(Month/Day/Ye	≥ar)
Torrei	ns Loc	ation	1:						
lsd	sect	. t	wp	rg	w	Litholog	y by:	Mike	
	۳					Drill C	ontr:	Cora Lynn Dri	illing
Survey	yed Lo	catio	on:			Dri	ller:	Dean	
N: 6	505018	0.6				Geoph.	Comp:	Century Geoph	ysical .
E:	61785	0.3						-	
EL:		0.0					Logs:	x gamma	sonic
								x density	neutron
Casing	3:	0.0						x caliper	x electric
Case 7	Cype:							verticality	dipmeter
Downho	ole Un	its:	Fee	et					
								other:	
_						•			

Comments:

.

DEPTH	DEPTH	DESCRIPTION	COMMENTS
(ft)	(m)		l •
			· · · · · · · · · · · · · · · · · · ·
2.0	0.61	till	
5.0	1.53	COAL (dirty), black, soft	
30.0	9.15 -	sandstone (fine), gray, medium soft	-
32.0	9.76	carby, black, soft	possible coal
50.0	15.25	sandstone (fine), gray, medium soft	
64.0	19.52 -	COAL (clean), black, soft	-
66.0	20.13	sandstone (fine), dark brown, medium soft	1
71.0	21.66	COAL (clean), black, soft	
74.0	22.57 -	siltstone, light gray, medium soft	-
81.0	24.71	COAL (dirty), black, medium soft	
83.0	25.32	sandstone (fine), dark gray, medium soft	•
91.0	27.76 -	siltstone, light brown, medium soft	-
96.0	29.28	sandstone (fine), dark gray, medium soft	-
102.0	31.11	sandstone (fine), light gray, medium soft	
104.0	31.72 -	COAL (dirty), black, medium soft	<b>_</b>
114.0	34.77	siltstone, light brown, medium soft	1
119.0	36.30	sandstone (fine), light gray, hard .	1
122.0	37.21 -	sandstone (coarse), light brown, medium soft	- possible water about 12 gpm
124.0	37.82	mudstone, light brown, medium soft	carby
127.0	38.74	sandstone (fine), light brown, medium soft	l
140.0	42.70 -	sandstone (fine), dark gray, medium soft	
180.0	54.90	sandstone (fine), dark brown, hard	
190.0	57.95	sandstone (coarse), hard	conglomerate-light red, green, grey
204.0	62.22 -	sandstone (medium), light brown, hard	- '
230.0	70.15	sandstone (fine), dark gray, hard	
242.0	73.81	mudstone, light gray, medium soft	
244.0	74.42 -	siltstone, black, hard	·
250.0	76.25	sandstone (coarse), hard	conglomerate- green, blue
267.0	81.44	sandstone (coarse), light gray, hard	conglomerate .
281.0	85.71 -	sandstone (medium), hard	- conglomerate- red, green, white, brown

Page 1

## Downhole Cuttings Description Program Ver 1.00

Hole Id: T94R04

Page 1

Hole:	T94R04	T94R04 Project: Telkwa Drilling 1994 .						
Site:	21		Dat	e Fir	nished: 08	/17/94	(Month/Day/Yea	r)
Torre	ns Locat:	ion:						
lsd	sect	twp	rg	. M	Litholo	gy by:	Don	
					Drill	Contr:	McAuley Drilli	ng
Surve	yed Locai	tion:			Dr	iller:	Don	
N:	6051583.	5			Geoph.	Comp :	Century Geophy	sical
E:	617412.3	2				•		
EL:	0.	0				Logs:	x gamma	sonic
							x density	neutron
Casin	g: 0.	0					x caliper	x electric
Case	Type:						verticality	x dipmeter
Downh	ole Unit:	s:	Feet					
							other:	
Comme	nts:						•	

DEPTH	DEPTH   DESCRIPTION	COMMENTS
(ft)	(m)	I
30.0	9.15	clay, sand, gravel
35.0	10.68   mudstone	grey/blue
47.0	14.34 - sandstone (coarse), gray, hard	-
69.5	21.20   sandy siltstone, gray, medium soft	1
73.0	22.27   sandy siltstone, hard	grey/brown
101.0	30.81 - mudstone, dark gray	- medium sandstone
105.0	32.03   sandy siltstone, gray, medium soft	<b>I</b>
106.5	32.48   mudstone, hard	grey/brown
118.5	36.14 - mudstone, dark gray, hard .	• ·
119.0	36.30   COAL (dirty)	1
120.0	36.60   mudstone, light gray .	medium sandstone
129.0	39.35 - mudstone, medium soft	- grey/brown
135.5	41.33   COAL (dirty)	l .
137.5	41.94 [ , medium soft ·	grey/brown
138.0	42.09 - COAL (dirty)	-
145.0	44.23   mudstone, light gray, medium soft	l
168.0	51.24   mudstone, hard	grey/brown
174.0	53.07 - mudstone	- carb
179,0	54.60   COAL (clean)	· · ·
180.0	54.90   mudstone, brown, hard	1
194.0	59.17 - COAL (clean)	<del>.</del> .
1,98.5	60.54   mudstone	grey/brown
202.0	61.61   carby, medium soft	I
210.0	64.05 - mudstone, hard	- grey/brown
237.0	72.29   mudstone, light gray, medium soft	1
239.0	72.90   COAL (dirty)	I
243.0	74.11 - , medium soft	- grey/brown
250.0	76.25   sandstone (medium), gray	1

Hole: T94R05	Project: 1	Felkwa Drilling I	1994			
Site: 23	Date Fini	shed: 08/18/94 (N	Month/Day/Year)			
Forrens Location:						
lsd sect twp	rg w	Lithology by: De	ean			
		Drill Contr: Co	or Lynn Drilling			
Surveyed Location:		Driller: De	Dean			
N: 6051253.5		Geoph. Comp: Ca	entury Geophysical			
E: 617502.0						
EL: 0.0		Logs: x	gamma sonic			
		x	density neutron			
Casing: 0.0		×x	caliper x electric			
Case Type:		ŕx	verticality x dipmeter			
Downhole Units: Fe	et					
			other:			

Comments:

, DEPTH (ft)	DEPTH   DESCRIPTION (m)	Comments
13.0	3.97   clay, red, soft	
23.0	7.02   mudstone, gray, medium soft	· ·
142.0	43.31 - sandstone (fine), light gray, medium soft	<b>.</b>
156.0	47.58   siltstone, gray, medium soft	1
161.0	49.11 [ mudstone, light gray, soft	l
178.0	54.29 - siltstone, dark gray, soft	-
190.0	57.95   mudstone, dark gray, medium soft	I
201.0	61.31   sandstone (medium), gray, medium soft	coal stringers, metallic specks
230.0	70.15 - siltstone, dark gray, soft	- pyrite interbed
232.0	70.76 [ COAL (clean), black, soft	1
255.0	77.77   siltstone, dark gray, medium soft	soft mdsn with coal grains(specks) layers
265.0	80.83 - sandstone (fine), dark gray, soft	- soft mdsn with coal grains(specks) layers
281.0	85.71   siltstone, dark gray, medium soft	calcite fractures 276-280 coal stringers
288.0	87.84   sandstone (medium), dark gray, hard	I
290.0	88.45 - COAL (clean), black, soft	-
301.0	91.80   sandstone (coarse), light gray, hard	conglomerate
305.0	93.02   sandstone (medium), light brown, hard	l
306.0	93.33 - COAL (clean), black, soft	• •
330.0	100.65   siltstone, dark brown, hard	l
361.0	110.11   sandstone (fine), dark gray, medium soft	l
372.0	113.46 - sandstone (medium), light gray, hard	- · · ·
376.0	114.68   sandstone (coarse), light gray, hard	conglomerate
382,0	116.51   mudstone, light gray, soft	ver soft (clay like)
400.0	122.00 - sandstone (coarse), light gray, medium soft	- with FSasn interbeds (soft) dark grey

.

Hole Id: T94R06

Hole:	T94R06 Project: Telkwa Drilling 1994						
Site:	22		Dat	e Fin	ished: 08/30/94	(Month/Day/Year) .	
Torren	s Locati	on:					
lsd	sect	¢wp	rg	wົ	Lithology by:	Dean	
		-			Drill Contr:	Cora Lynn Drilling	
Survey	ed Locat	ion:		•	Driller:	Dean	
N:	0.0				Geoph. Comp:	Century Geophysical	
E:	0.0						

EL:	0.0		Logs	: x	gamma	sonic
				x	density -	neutron
Casing:	0.0			x	caliper	x electric
Case Type:	:			x	verticality	x dipmeter
Downhole (	Jnits:	Feet				
					other:	

Comments:

DEPTH	DEPTH	DESCRIPTION .	COMMENTS
(ft)	(m)		1
5.0	1.53	till	1
17.0	5.19	mudstone, green, soft	[
40.0	12.20 -	mudstone, gray, soft	-
47.0	14.34	sandstone (medium), dark gray, medium soft	· ·
86.0	26.23	mudstone, dark gray, soft	soft mudstone layers, light grey
90.0	27.45 -	siltstone, dark gray, medium soft	-
125.0	38.13	mudstone, light gray, soft	soft mudstone and layers of siltstone
236.0	71.98	siltstone, dark gray, soft	soft siltstone and layers of mudstone
253.0	77.16 -	sandstone (fine), dark brown, hard	-
266.0	81.13	siltstone, dark gray, medium soft	soft mudstone layers, light grey
307.0	93.63	sandstone (medium)	1
327.0	99.74 -	sandstone (fine), dark gray, hard	-
347.0	105.84	siltstone, dark gray, hard	soft mudstone layers, light grey
407.0	124.14	sandstone (fine), dark gray, medium soft	I
470.0	143.35 -	siltstone, dark gray, soft	- mudstone layers dark grey
497 0	151.59	COAL (clean), black, soft	mudstone layers
512.0	156.16	mudstone, dark gray, medium soft	coal?
518.0	157.99 -	sandstone (fine), dark gray, hard	<ul> <li>soft mudstone layers (black(specks))</li> </ul>
527.0	160.74	sandstone (medium), gray, hard	I .
549.0	167.45	siltstone, dark gray, medium soft	l · · ·

Hole Id: T94R07

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Hole:	T94R07		Proj	ect:	Telkwa Drilling	g 1994	
Site:	24		Date	Fini	shed: 08/30/94	(Month/Day/Year)	•
Torrens	B Locatio	n:					
lsd	sect	twp	rg	w	Lithology by:	David	
					Drill Contr:	McAuley Drilling	а а
Surveye	ed Locati	on:			Driller:	David	
N:	0.0				Geoph. Comp:	Century Geophys:	ical
E:	0.0						
EL:	0.0				Logs:	x gamma	sonic
•						x density	neutron
Casing	. 0.0					x caliper :	c electric
Case Ty	pe:					verticality	dipmeter
Downhol	le Units:	Fee	t				
						other:	

Comments:

DEPTH	DEPTH   DESCRIPTION	Comments
(ft)	(m)	
20.0	6.10   clay	sand, till
62.0	18.91   mudstone, light gray, medium soft	
94.5	28.82 - sandy siltstone, dark gray, medium soft	- light grey mudstone lens
97.0	29.59   sandy siltstone, light brown, hard	
102.0	31.11   sandy siltstone, gray, hard	
111.0	33.86 - sandy siltstone, light gray, medium soft	- mudstone lens
122.0	37.21   sandstone (medium), gray, medium soft	
129.0	39.35   sandy siltstone, dark gray, medium soft	light green mudstone lens
129.4	39.47 - carby -	
143.0	43.62   mudstone, gray, medium soft	
155.0	47.28   sandy siltstone, dark gray, medium soft	light green mudstone lens
196.0	59.78 - mudstone, dark gray, medium soft	
207.0	63.14   sandstone (fine), gray	
208.5	63.59   carby	
211.0	64.36 - mudstone, light gray, medium soft	sandstone (m)
213.5	65.12   COAL (dirty)	
220.0	67.10   mudstone, dark gray, medium soft	• .
239.0	72.90 - sandy siltstone, dark gray, hard	
259:2	79.06   mudstone, dark gray, medium soft	sandstone (m)
264.0	80.52   COAL (clean)	
293.0	89.36 - mudstone, gray	
295.0	89.97   COAL (clean)	
314.0	95.77   mudstone, gray, medium soft	
319.5	97.45 - COAL (clean) -	
320.5	97.75   mudstone, medium soft	· · ,
335.5	102.33   COAL (clean), gray	
341.0	104.01 - mudstone, gray, medium soft	
347.0	105.84   mudstone, gray, medium soft	
349.5	106.60   mudstone, dark gray, medium soft	
355.0	108.28 - COAL (clean)	•
358.5	109.34   mudstone, light gray, medium soft	
360.0	109.80   COAL (clean)	
364.0	111.02 - mudstone, light gray, medium soft	

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	•	
365.8 111.57	COAL (dirty) .	
366.5 111.78	mudstone, gray, medium soft	l
368.2 112.30 -	COAL (clean)	- coal (dirty)
375.0 114.38	mudstone, gray, medium soft	1
378.0 115.29	COAL (clean)	
378.5 115.44 -	mudstone, light brown	- ·
383.5 116.97	COAL (clean)	I
384.5 117.27	mudstone	l
385.0 117.43 -	COAL (clean)	-
385.5 117.58	, gray, medium soft	
386.5 117.88	COAL (clean)	
391.0 119.26 -	, gray, medium soft	- coal banding
394.0 120.17	COAL (dirty)	
396.0 120.78	, brown, medium soft	
398.5 121.54 -	, gray, medium soft	
400.0 122.00	sandstone (fine), gray	

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Hole:	T94R08		. Proj	ject:	Telkwa Drillin	Ig 1994	
Site:	20		Date	e Fin	ished: 08/30/94	(Month/Day/Year	) .
Torren	s Locati	.on:					
lsd	sect	twp	rg	w	Lithology by:	Dean	
					Drill Contr:	McAuley Drillin	a
Survey	ed Locat	ion:			Driller:	Dean	
N:	0.0	I			Geoph. Comp:	Ceńtury Geophys	ical
Е:-	0.0	ł					
EL:	0.0	ł			Logs :	gamma ·	sonic
						density	neutron
Casing	: 0.0	ł				caliper	electric
Case T	ype: .					verticality	dipmeter
Downho	le Units	::. Fe	eet				
						other:	

Comments:

(ft)       (m)                 58.0       17.69       clay                 58.0       17.69       clay                 58.0       17.69       clay                 59.0       27.45       mudatone, light gray, medium soft       -         130.0       39.65       sady siltstone, dark gray, medium soft                 185.0       56.43               mudatone, dark gray, medium soft                 186.5       56.88       -       mudatone, dark gray, medium soft                 211.0       64.36               mudatone, gray, medium soft       -         213.0       71.07       -       mudatone, gray, medium soft       -       carb traces         246.0       75.03       sandstone (fine), gray, hard               -       -         273.0       83.27       -       mudatone, laght brown, hard               -         273.0       83.27       mudatone, laght gray, hard               -       -         282.0       86.01       sandstone (fine), gray, hard               -       -       -         306.0       93.33       - sandy siltstone, dark gray, medium soft       -       -       -       -       <	DEPTH	DEPTH {	DESCRIPTION	COMMENTS .
58.0       17.69       clay       till         58.0       17.69       clay       till         50.0       27.45       mudatone, light gray, medium soft       -         130.0       39.65       sands tollatone, dark gray, medium soft       -         186.0       56.43       mudatone, dark gray, medium soft       -         186.5       56.68       mudatone, dark gray, medium soft       -         211.0       64.36       mudatone, dark gray, medium soft       -         23.0       71.07       mudatone, gray, medium soft       -         23.0       71.07       mudatone, fight brown, hard       -         273.0       83.37       mudatone, light brown, hard       -         273.0       83.37       mudatone, dark gray, medium soft       -         282.0       86.01       sandstone, dark gray, hard       -         304.0       92.72       mudatone, dark gray, hard       -         306.0       93.33       sandy siltstone, dark gray, soft       -         368.0       112.24       COAL (dirty)       -         370.0       112.55       mudatone, light gray, soft       -         388.0       118.34       mudatone, light gray, soft       - </td <td>(ft)</td> <td>(m)</td> <td>· · · · · ·</td> <td>I</td>	(ft)	(m)	· · · · · ·	I
30.0       21.05       exdy       exdy         90.0       27.45       mudstone, light gray, medium soft       -         130.0       39.55       sandy siltstone, dark gray, medium soft       -         185.0       56.43       mudstone, light brown, hard       -         211.0       64.36       mudstone, light brown, hard       -         211.0       64.36       mudstone, gray, medium soft       -         233.0       71.07       mudstone, gray, medium soft       -         247.5       75.49       mudstone, dark gray, medium soft       -         247.5       75.49       mudstone, dark gray, medium soft       -         247.5       75.49       mudstone, dark gray, hard       -         247.5       75.49       mudstone, dark gray, hard       -         247.5       75.49       mudstone, dark gray, hard       -         247.0       83.27       mudstone, dark gray, hard       -         304.0       92.72       mudstone, gray, bard       -         366.0       111.63       mudstone, gray, soft       -         370.0       112.85       mudstone, light gray, soft       -         370.0       112.45       roustone (medium), gray, soft       -	58 0	17 69 I	clav	· · ·
10.017.55induction (ark) gray, medium soft130.039.65sandy siltstone, dark gray, medium soft-138.056.43mudstone, dark gray, medium soft-186.556.84mudstone, dark gray, medium soft-186.556.88- mudstone, dark gray, medium soft-110.661.36mudstone, dark gray, medium soft-121.665.88sandstone (fine), gray, hard-123.071.07- mudstone, gray, medium soft-123.071.07- mudstone, gray, medium soft-127.083.27- mudstone, dark gray, medium soft-128.086.0.1sandy siltstone, dark gray, medium soft-128.086.0.1sandy siltstone, dark gray, hard-1304.092.72mudstone, gray, medium soft-1306.091.23.2sandy siltstone, light gray, hard-1366.0112.24COAL (dirty)-137.6114.68mudstone, light gray, soft-137.6114.68mudstone, light gray, soft-139.0121.70sandstone (medium), gray, medium soft-129.1121.70sandstone (medium), gray, medium soft-139.0122.17mudstone, light gray, soft-140.0124.20120.17-157.6114.68mudstone, light gray, soft-140.0122.00mudstone, dark gray, medium soft-140.5122.00mudstone, dark gray, medium	55 0	19.83	sandstone (medium) grav medium soft	,
John SolidsJohn Solids180.039.65-1sandy siltstone, dark gray, medium soft1185.056.43mudstone, dark gray, medium soft-186.556.88- mudstone, light brown, hard-211.064.36mudstone, dark gray, medium soft-216.065.88sandstone (fine), gray, hard1230.071.07- mudstone, gray, medium soft-246.075.03sandstone (fine), gray, hard1247.575.49mudstone, light brown, hard-273.083.27- mudstone, dark gray, medium soft-282.086.01sandy siltstone, dark gray, hard1304.092.72mudstone, dark gray, hard-306.093.33- sandy siltstone, light gray, hard-306.0112.24COAL (dirty)1307.0112.85- mudstone, light gray, soft-388.0118.34mudstone, light gray, soft-388.0118.34mudstone, light gray, soft-309.0121.70sandstone (medium), gray, medium soft-400.0122.00mudstone, dark gray, medium soft-422.0128.71- mudstone, dark gray, medium soft-423.0111.51sandy siltstone, gray, medium soft-444.0122.00imdstone, light prown, soft-445.0131.56sandstone, dark gray, medium soft-452.0128.71- mudstone, dark gray, medium soft-	90.0	27.45 -	mudstone, light gray, medium soft	· .
18:055.43  mudstone, dark gray, medium soft18:055.43  mudstone, light brown, hard-211.064.36  mudstone, dark gray, medium soft 233.071.07- mudstone, gray, medium soft-233.071.07- mudstone, gray, medium soft-246.075.03  sandstone (fine), gray, hard 247.575.49  mudstone, light brown, hard 273.083.27- mudstone, dark gray, medium soft-282.086.01  sandy siltstone, dark gray, hard 304.092.72  mudstone, gray, hard 305.093.33- sandy siltstone, dark gray, hard 306.0112.24  COAL (dirty) 370.0112.85- mudstone, light gray, soft-388.0118.34  mudstone, light gray, soft-399.0122.00  mudstone, light gray, medium soft-400.0122.00  mudstone, light brown, soft-400.0131.15  sandy siltstone, dark gray, medium soft-422.0128.71- mudstone, light gray, soft-433.0131.15  sandy siltstone, dark gray, medium soft-430.0131.15  sandy siltstone, dark gray, medium soft-430.0131.15  sandy siltstone, dark gray, medium soft-430.0131.15  sandy siltstone, dark gray, hard 430.0131.15  sandy siltstone, dark gray, medium soft-430	130.0	39.65 1	sandy siltstone, dark gray, medium soft	1.
11.1.111.1.1.111.1.1.111.1.111.1.011.1.011.1.111.1.111.064.36mudstone, dark gray, medium soft1121.064.36mudstone, dark gray, medium soft-121.064.36mudstone, gray, medium soft-123.011.07mudstone, gray, medium soft-124.075.03  sandstone (fine), gray, hard 127.575.49[ mudstone, dark gray, medium soft-128.086.01  sandy siltstone, dark gray, medium soft-128.086.01[ sandy siltstone, dark gray, medium soft-1306.092.72  mudstone, gray, medium soft-1306.093.33- sandy siltstone, light gray, hard-1306.093.33- sandy siltstone, light gray, hard-1306.011.63  mudstone, gray, soft-1306.011.24COAL (dirty)-1370.0112.85- mudstone, jight gray, soft-1380.0112.10  mudstone, light gray, soft-1380.0112.10- sandstone (medium), gray, medium soft-1399.0121.70- sandstone, (medium), gray, medium soft-140.0122.00  mudstone, dark gray, medium soft-142.0128.71- mudstone, dark gray, medium soft-143.0131.15> sandstone, (medium), gray-144.0144.57  sandstone, dark gray, medium soft-147.0144.57  san	185.0	56.43	mudstone, dark grav. medium soft	
11.064.36mudstone, dark gray, medium soft121.064.36  undstone, dirk gray, medium soft- carb traces23.071.07 - mudstone, gray, medium soft- carb traces246.075.03  sandstone (fine), gray, hard 247.575.49  mudstone, light brown, hard 273.083.27 - mudstone, dark gray, medium soft-282.066.01  sandy siltstone, dark gray, medium soft 304.092.72  mudstone, light gray, hard 306.093.33 - sandy siltstone, light gray, hard-366.0111.63  mudstone, gray, soft 368.0112.24  COAL (dirty) 370.0118.34  mudstone, light gray, soft 388.0118.34  mudstone, light gray, soft 399.0121.70- sandstone (medium), gray, medium soft-400.0122.00  mudstone, light brown, soft 422.0128.71- mudstone, dark gray, medium soft-423.0131.15  sandy siltstone, dark gray, hard 423.0131.15  sandstone, gray, medium soft-430.0131.15  sandstone, gray, medium soft-470.0133.35- sandstone (medium), gray-470.0143.35- sandstone (medium), gray-470.0143.35- sandstone (coarse), gray-470.0143.35- sandstone (medium), gray-470.0144.57  sandstone (coars	186.5	56.88 -	mudstone, light brown, hard	-
216.065.88  sandstone (fine), gray, hard233.071.07 - mudstone, gray, medium soft- carb traces246.075.03  sandstone (fine), gray, hard 247.575.49  mudstone, light brown, hard 273.083.27 - mudstone, dark gray, medium soft-282.086.01  sandy siltstone, dark gray, hard 306.092.72  mudstone, dark gray, medium soft 306.093.33 - sandy siltstone, light gray, hard-306.011.63  mudstone, gray, soft-306.0112.24  COAL (dirty) 370.0112.85 - mudstone, gray, soft 380.0118.34  mudstone, light gray, soft 399.0121.70 - sandstone (medium), gray, medium soft-400.0122.00  mudstone, light gray, medium soft-400.1122.00  mudstone, light gray, medium soft-413.0131.15  sandy siltstone, dark gray, medium soft-400.1122.00  mudstone, light brown, soft  carb traces409.5124.90COAL (clean) 422.0128.71 - mudstone, dark gray, medium soft-430.0131.15  sandy siltstone, gray, medium soft-470.0143.25 - sandstone (medium), gray  mudstone at top grading to v.fine ss base470.0143.35 - sandstone (medium), gray-474.0144.57  sandstone (coarse), gray  fining up sequences. channel log deposits	211.0	64.36 I	mudstone, dark grav, medium soft	I
233.071.07- mudstone, gray, medium soft- carb traces246.075.03sandstone (fine), gray, hard 247.575.49mudstone, light brown, hard 273.083.27- mudstone, dark gray, medium soft-282.086.01sandy siltstone, dark gray, hard 304.092.72mudstone, dark gray, medium soft-306.093.33- sandy siltstone, light gray, hard-306.0111.63mudstone, gray, nedium soft-306.112.24COAL (dirty) 370.0112.85- mudstone, gray, soft-376.0114.68mudstone, light gray, soft 388.0118.34mudstone, light gray, soft 399.0121.70- sandstone (medium), gray, medium soft-400.0122.00mudstone, light brown, soft 411.15 sandy siltstone, dark gray, medium soft-412.0128.71- mudstone, dark gray, medium soft-413.0131.15sandy siltstone, dark gray, hard 413.0131.15sandy siltstone, dark gray, hard 410.0143.35- sandstone (medium), gray-410.0143.35- sandstone (medium), gray-410.0144.57  sandy siltstone, gray, medium soft-410.0144.57  sandstone (coarse), gray-411.0144.57  sandstone (coarse), gray-412.0144.57  sandstone (coarse), gray	216.0	65.88	sandstone (fine), gray, hard	
246.075.03  sandstone (fine), gray, hard 247.575.49  mudstone, light brown, hard 273.083.27- mudstone, dark gray, medium soft-282.086.01{ sandy siltstone, dark gray, hard 304.092.72  mudstone, dark gray, medium soft-306.093.33- sandy siltstone, light gray, hard-366.0111.63  mudstone, gray, hard-366.0112.24  COAL (dirty) 370.0112.85- mudstone, gray, soft-376.0114.68  mudstone, light gray, soft 388.0118.34  mudstone, light gray, medium soft-400.0122.00  mudstone, light brown, soft  carb traces409.5124.90  COAL (clean) 422.0128.71- mudstone, dark gray, medium soft-430.0131.15  sandy siltstone, dark gray, hard 430.0131.55- mudstone, dark gray, medium soft-470.0143.35- sandstone (medium), gray-470.0143.35- sandstone (medium, gray-470.0143.35- sandstone, dark gray, hard 470.0144.57  sandstone, gray, medium soft-470.0144.57  sandstone, (coarse), gray  bivalves common through out474.0144.57  sandstone (coarse), gray  fining up sequences. channel log deposits	233.0	71.07 -	mudstone, gray, medium soft	- carb traces
247.575.49  mudstone, light brown, hard273.083.27mudstone, dark gray, medium soft282.086.01{ sandy siltstone, dark gray, hard304.092.72  mudstone, dark gray, medium soft306.093.33- sandy siltstone, light gray, hard366.011.63  mudstone, gray, hard368.0112.24COAL (dirty)370.0112.85- mudstone, gray, soft376.0114.68  mudstone, light gray, soft388.018.34  mudstone, light gray, soft399.0121.70- sandstone (medium), gray, medium soft400.0122.00  mudstone, light brown, soft409.5124.90  COAL (clean)422.0128.71- mudstone, dark gray, medium soft430.0131.15  sandy siltstone, dark gray, hard452.0137.86  sandy siltstone, gray, medium soft470.0143.35- sandstone (medium), gray474.0144.57  sandstone (coarse), gray	246.0	75.03 [	sandstone (fine), gray, hard	l
273.0       83.27 - mudstone, dark gray, medium soft       -         282.0       86.01 { sandy siltstone, dark gray, hard                 304.0       92.72 { mudstone, dark gray, medium soft                 306.0       93.33 - sandy siltstone, light gray, hard       -         366.0       111.63 { mudstone, gray, hard                 366.0       12.24 { COAL (dirty)                 370.0       12.85 - mudstone, gray, soft       -         376.0       14.68   mudstone, light gray, soft                 388.0       18.34   mudstone, light gray, soft                 399.0       121.70 - sandstone (medium), gray, medium soft       -         400.0       122.00   mudstone, light brown, soft         carb traces         409.5       124.90   COAL (clean)                 422.0       128.71 - mudstone, dark gray, medium soft       -         430.0       131.15   sandy siltstone, gray, medium soft       -         430.0       131.15   sandy siltstone, gray, medium soft       -         452.0       137.86   sandy siltstone, gray, medium soft       -         452.0       137.86   sandy siltstone, gray, medium soft       -         452.0       137.86   sandty siltstone, (coarse), gray       - bivalves common through out <t< td=""><td>247.5</td><td>75.49</td><td>mudstone, light brown, hard</td><td> </td></t<>	247.5	75.49	mudstone, light brown, hard	
282.086.01   sandy siltstone, dark gray, hard 304.092.72   mudstone, dark gray, medium soft 306.093.33 - sandy siltstone, light gray, hard-366.0111.63   mudstone, gray, hard 368.0112.24   COAL (dirty) 370.0112.85 - mudstone, gray, soft-376.0114.68   mudstone, light gray, soft 388.0118.34   mudstone, light gray, soft 399.0121.70 - sandstone (medium), gray, medium soft-400.0122.00   mudstone, light brown, soft 422.0128.71 - mudstone, dark gray, medium soft-430.0131.15   sandy siltstone, dark gray, hard 452.0137.86   sandy siltstone, gray, medium soft-470.0143.35 - sandstone (medium), gray-474.0144.57   sandstone (coarse), gray-	273.0	83.27 -	mudstone, dark gray, medium soft	
304.092.72   mudstone, dark gray, medium soft 306.093.33 - sandy siltstone, light gray, hard-366.0111.63   mudstone, gray, hard 368.0112.24   COAL (dirty) 370.0112.85 - mudstone, gray, soft-376.0114.68   mudstone, light gray, soft 388.0118.34   mudstone, light gray, soft 399.0121.70 - sandstone (medium), gray, medium soft-400.0122.00   mudstone, light brown, soft 409.5124.90   COAL (clean) 422.0128.71 - mudstone, dark gray, medium soft-430.0131.15   sandy siltstone, dark gray, hard 452.0137.86   sandy siltstone, gray, medium soft 470.0143.35 - sandstone (medium), gray>474.0144.57   sandstone (coarse), gray	282.0	86.01 {	sandy siltstone, dark gray, hard	· ·
306.093.33 - sandy siltstone, light gray, hard-366.0111.63   mudstone, gray, hard 368.0112.24   COAL (dirty) 370.0112.85 - mudstone, gray, soft-376.0114.68   mudstone, light gray, soft  coal and carb bands388.0118.34   mudstone, light gray, soft 399.0121.70 - sandstone (medium), gray, medium soft-400.0122.00   mudstone, light brown, soft  carb traces409.5124.90   COAL (clean) 422.0128.71 - mudstone, dark gray, medium soft-430.0131.15   sandy siltstone, dark gray, hard 452.0137.86   sandy siltstone, gray, medium soft  mudstone at top grading to v.fine ss base470.0143.35 - sandstone (medium), gray-474.0144.57   sandstone (coarse), gray	304.0	92.72	mudstone, dark gray, medium soft	· ·
366.0       111.63   mudstone, gray, hard                 368.0       112.24   COAL (dirty)                 370.0       112.85 - mudstone, gray, soft       -         376.0       114.68   mudstone, light gray, soft         coal and carb bands         388.0       118.34   mudstone, light gray, soft                 399.0       121.70 - sandstone (medium), gray, medium soft       -         400.0       122.00   mudstone, light brown, soft         carb traces         409.5       124.90   COAL (clean)                 422.0       128.71 - mudstone, dark gray, medium soft       -         430.0       131.15   sandy siltstone, dark gray, hard                 452.0       137.86   sandy siltstone, gray, medium soft       -         470.0       143.35 - sandstone (medium), gray       -         474.0       144.57   sandstone (coarse), gray       bivalves common through out	306.0	93.33 -	sandy siltstone, light gray, hard	-
368.0 112.24   COAL (dirty)                 370.0 112.85 - mudstone, gray, soft       -         376.0 114.68   mudstone, light gray, soft       [ coal and carb bands         388.0 118.34   mudstone, light gray, soft       [ doal and carb bands         389.0 121.70 - sandstone (medium), gray, medium soft       -         400.0 122.00   mudstone, light brown, soft       [ darb traces         409.5 124.90   COAL (clean)                 422.0 128.71 - mudstone, dark gray, medium soft       -         430.0 131.15   sandy siltstone, dark gray, hard                 452.0 137.86   sandy siltstone, gray, medium soft       -         470.0 143.35 - sandstone (medium), gray       -         474.0 144.57   sandstone (coarse), gray       gray	366.0	111.63	mudstone, gray, hard	· ·
370.0112.85 - mudstone, gray, soft-376.0114.68   mudstone, light gray, soft[ coal and carb bands388.0118.34   mudstone, light gray, soft[399.0121.70 - sandstone (medium), gray, medium soft-400.0122.00   mudstone, light brown, soft[ carb traces409.5124.90   COAL (clean)[422.0128.71 - mudstone, dark gray, medium soft-430.0131.15   sandy siltstone, dark gray, hard[452.0137.86   sandy siltstone, gray, medium softI mudstone at top grading to v.fine ss base470.0143.35 - sandstone (medium), gray- bivalves common through out474.0144.57   sandstone (coarse), gray[ fining up sequences. channel log deposits	368.0	112.24	COAL (dirty)	Ι.
376.0 114.68   mudstone, light gray, soft[ coal and carb bands388.0 118.34   mudstone, light gray, soft[399.0 121.70 - sandstone (medium), gray, medium soft-400.0 122.00   mudstone, light brown, soft[ carb traces409.5 124.90   COAL (clean)[422.0 128.71 - mudstone, dark gray, medium soft-430.0 131.15   sandy siltstone, dark gray, hard[452.0 137.86   sandy siltstone, gray, medium soft-470.0 143.35 - sandstone (medium), gray- bivalves common through out474.0 144.57   sandstone (coarse), gray[	370.0	112.85 -	mudstone, gray, soft	-
388.0 118.34   mudstone, light gray, soft[399.0 121.70 - sandstone (medium), gray, medium soft-400.0 122.00   mudstone, light brown, soft  carb traces409.5 124.90   COAL (clean) 422.0 128.71 - mudstone, dark gray, medium soft-430.0 131.15   sandy siltstone, dark gray, hard 452.0 137.86   sandy siltstone, gray, medium soft-470.0 143.35 - sandstone (medium), gray- bivalves common through out474.0 144.57   sandstone (coarse), gray  fining up sequences. channel log deposits	376,0	114.68	mudstone, light gray, soft	coal and carb bands
399.0 121.70 - sandstone (medium), gray, medium soft-400.0 122.00   mudstone, light brown, soft  carb traces409.5 124.90   COAL (clean) 422.0 128.71 - mudstone, dark gray, medium soft-430.0 131.15   sandy siltstone, dark gray, hard 452.0 137.86   sandy siltstone, gray, medium soft-470.0 143.35 - sandstone (medium), gray-474.0 144.57   sandstone (coarse), gray  fining up sequences. channel log deposits	388.0	118.34	mudstone, light gray, soft	1
400.0 122.00   mudstone, light brown, soft  carb traces409.5 124.90   COAL (clean) 422.0 128.71 - mudstone, dark gray, medium soft-430.0 131.15   sandy siltstone, dark gray, hard 452.0 137.86   sandy siltstone, gray, medium soft  mudstone at top grading to v.fine ss base470.0 143.35 - sandstone (medium), gray- bivalves common through out474.0 144.57   sandstone (coarse), gray  fining up sequences, channel log deposits	399.0	121.70 -	sandstone (medium), gray, medium soft	-
409.5 124.90   COAL (clean) 422.0 128.71 - mudstone, dark gray, medium soft-430.0 131.15   sandy siltstone, dark gray, hard 452.0 137.86   sandy siltstone, gray, medium soft  mudstone at top grading to v.fine ss base470.0 143.35 - sandstone (medium), gray- bivalves common through out474.0 144.57   sandstone (coarse), gray  fining up sequences, channel log deposits	400.0	122.00	mudstone, light brown, soft	carb traces
422.0128.71 - mudstone, dark gray, medium soft-430.0131.15   sandy siltstone, dark gray, hard 452.0137.86   sandy siltstone, gray, medium soft  mudstone at top grading to v.fine ss base470.0143.35 - sandstone (medium), gray- bivalves common through out474.0144.57   sandstone (coarse), gray  fining up sequences, channel log deposits	409.5	124.90	COAL (clean)	I
430.0131.15   sandy siltstone, dark gray, hard 452.0137.86   sandy siltstone, gray, medium soft  mudstone at top grading to v.fine ss base470.0143.35 - sandstone (medium), gray- bivalves common through out474.0144.57   sandstone (coarse), gray  fining up sequences, channel log deposits	422.0	128.71 -	mudstone, dark gray, medium soft	-
452.0 137.86   sandy siltstone, gray, medium soft  mudstone at top grading to v.fine ss base470.0 143.35 - sandstone (medium), gray- bivalves common through out474.0 144.57   sandstone (coarse), gray  fining up sequences, channel log deposits	430.0	131.15 ]	sandy siltstone, dark gray, hard	1
470.0 143.35 - sandstone (medium), gray- bivalves common through out474.0 144.57   sandstone (coarse), gray  fining up sequences, channel log deposits	452.0	137.86	sandy siltstone, gray, medium soft	mudstone at top grading to v.fine ss base
474.0 144.57   sandstone (coarse), gray   fining up sequences. channel log deposits	470.0	143.35 -	sandstone (medium), gray	- bivalves common through out
	474.0	144.57	sandstone (coarse), gray	fining up sequences. channel log deposits

Hole:	T94R09		Proj	ect:	Telkwa Drillin	g 1994	
Site:	30		Date	Fin	ished: 08/30/95	(Month/Day/Yea	r)
Torren	s Locati	on:					
lsđ	sect	twp	rg	w	Lithology by:	Dean	
					Drill Contr:	Cora Lynn Dril	ling <sup>.</sup>
Survey	ed Locat	ion:			Driller:	Dean	
N:	0.0				Geoph. Comp:	Century Geophy	sical
Е:	0.0						
EL:	0.0				Logs:	x gamma	sonic
						x density	neutron
Casing	: 0.0					x caliper	x electric
Case T	ype:					x verticality	x dipmeter
Downho.	le Units	: Fe	et				
						other:.	

Comments:

DEPTH DEPTH | DESCRIPTION COMMENTS (ft) (m) [ 1 \_\_\_\_\_ 127.0 38.74 | gravel, gray, soft . | clay . 183.0 55.82 | gravèl, red, soft [ clay 205.0 62.53 - sandstone (coarse), dark green, hard - cong.? 222.0 67.71 | sandstone (coarse), dark red, hard cong.? 310.0 94.55 | sandstone (coarse), dark green, hard Т 421.0 128.41 - mudstone, dark red, hard - volcanics? 447.0 136.34 | mudstone, dark.violet, medium soft | volcanics? calcite fractures ٠. 480.0 146.40 | mudstone, dark red, medium soft | fractured, 10gpm water, calcite fractures 489.0 149.15 - mudstone, dark red, hard

#### Downhole Cuttings Description Program Ver 1.00

Hole Id: T94R10c

Hole: T94R10c Project: Telkwa Drilling 1994									
Site:	19		Dat	e Fini	ished: 08,	/30/95	(Month/Day/Yea	r) (	
Torrens	. Locati	01.			•				
TOLLUNG	5 Docact				,			•	
lsd	sect	twp	$\mathbf{rg}$	ŵ	Litholog	gy by:	Dave		
					Drill (	Contr:	McAuley Drilli	n'g	
Surveye	ed Locat:	ion:			Dr:	iller:	Dave		
N:	0.0				Geoph.	Comp:	Century Geophy	sical	
E:	0.0								
EL:	0.0					Logs:	x gamma	sonic	
			٦				x density	neutron	
Casing	: 0.0						x caliper	x electric	
Case Ty	ype:						x verticality	x dipmeter .	
Downhol	le Units	: Fe	et					•	
							other:		

#### Comments:

Cored from 52.8m to T.D.

DEPTH DEPTH | DESCRIPTION | COMMENTS (m) [ 1 (ft) ----------. 20.0 6.10 | colluvium | till 28:0 8.54 | mudstone, light gray, medium soft I 115.0 35.08 - mudstone, dark gray, medium soft \_ 123.0 37.52 | mudstone, light gray, medium soft 1 141.0 43.01 | mudstone, dark gray, medium soft I 150.0 45.75 - sandy siltstone, light gray, hard - carb stringers 152.0 46.36 | COAL (clean) 1 160.0 48.80 | mudstone, dark gray, medium soft T 162.5 49.56 - COAL (clean) 173.5 52.92 | mudstone, dark gray, medium soft | started coring at 52.8m

.

Project: Telkwa Drilling 1994

Date Finished: 08/30/95 (Month/Day/Year)

Hole: T94R11

Site: 29

Torrer	ns Locat:	ion:					•		
lsd	sect	twp	rg	w	Lithology by	y: Dean			
					Drill Cont:	r: Cora Lynn Dri	lling		
Survey	ed Locat	ion:			Drille	r: Dean			
N:	0.0	3			Geoph. Com	: Century Geoph	ysícal		
Е:	0.0	5							
EL:	0.0	3			Log	s: gaimma	sonic		
						density	neutron		
Casing	g: 0.0					caliper	electric	·	
Case 1	Cype:					verticality	dipmeter		
Downho	ole Units	s: Mete	rs						
						other:			
Conner	its:								
No log	js, no ca	asing						4	•
		•							
								•	
DEPTH	i deptii	DESC	RIPTIO	N		,		COMMENTS	

(ft) (m)	l
82.0 25.00   colluvium, gray, soft	rocks
219.7 67.00   colluvium, red, soft	rocks
488.5 149.00 - gravel	- sand
678.7 207.00   colluvium, medium soft	rocks, consolidated?
741.0 226.00   gravel, hard	·
793.4 242.00 - mudstone, hard	- volcanics below overburden

Hole Id: T94R12

1

Hole:	T94R12		Proj	ect:	Telkwa Drillin	g 1994	
Site:	18		Date	Fin	ished: 08/30/95	(Month/Day/Yea	<b>r</b> )
		,					
Torrens	Locati	on:					
lsd	sect	twp.	rg	w	Lithology by:	Dave	
					Drill Contr:	McAuley Drilli	ng
Surveye	d Locat	ion:			Driller:	Dave	
N:	0.0				Geoph, Comp:	Century Geophy	sical
E:	0.0						
EL:	0.0				Logs:	x gamma	sonic
				•		x density	neutron .
Casing:	0.0					x caliper '	x electric
Case Ty	pe:					x verticality	x dipmeter
Downhol	e Units.	: Fee	et	•			
						other:	

Comments:

•		
DEPTH	DEPTH   DESCRIPTION .	COMMENTS
(ft)	(m)   .	· ·
64.0	19.52   clay	gravel, till
73.0	22.27   mudstone, light gray, medium soft	1
102.0	31.11 - mudstone, dark gray, medium soft	- carb banding
106.0	32.33   sandy siltstone, dark gray, hard	1
133.5	40.72   , dark gray, medium soft	carb banding
140.0	42.70 - COAL (clean)	-
176.0	53.68   mudstone, dark gray, medium soft	1
177.0	53.99   COAL (clean)	1
179.5	54.75 - mudstone, medium soft	<del>.</del>
180.0	54.90   COAL (clean), light gray	1
184.0	56.12   mudstone, light brown, hard	carb and coal banding
200.0	61.00 - mudstone, dark gray, medium soft	-
218.0	66.49   mudstone, dark gray, medium soft	brown siltstone 2"-3" bands
227.0	69.24   sandy siltstone, dark gray	
243.0	74.11 - sandstone (fine), light gray, medium soft	-
245.0	74.72   sandstone (coarse), medium soft	grey/brown, volcanic pebbles
249.0	75.94   mudstone, medium soft	grey, blue, green, red. volcanics
258.0	78.69 - sandstone (coarse), medium soft	-
265.0	80.83   sandstone (coarse), light gray, medium soft	1
272.0	82.96   mudstone, dark gray, medium soft	1
279.0	85.10 - sandy siltstone, dark gray, hard	-
281.0	85.71   mudstone, dark gray, medium soft	1
308.0	93.94   sandy siltstone, dark gray, medium soft	I
		-

Site:	28		Date	Fini	shed: C	08/30/95	(Month/Day/Year	r)	
	*								
Torren	s Locati	on:							
lsd	sect	twp	rđ	w	Lithol	logy by:	Dean		
					Drill	L Contr:	Cora Lynn Drill	lin	а
Survey	ed Locat	ion:	•	Driller:			Dean		
N:	0.0				Geoph	1. Comp:	Century Geophys	sic	al
E:	0.0								
EL:	0.0					Logs:	x gamma		sonic
							x density		neutron
Casing	: 0.0						x caliper	x	electric
Case T	pe:						verticality	,	dipmeter
Downhol	le Units	: Meter	s						

Project: Telkwa Drilling 1994

Comments:

Hole: T94R13

 DEPTH DEPTH | DESCRIPTION
 I COMMENTS

 (ft) (m) |
 I

 131.1 40.00 | till
 | gravel, sand

 173.8 53.00 | mudstone, dark red, soft
 | ? vol.

 223.0 68.00 - mudstone, soft
 - light green, blue, white. ? vol

 459.0 140.00 | mudstone, brown, medium soft
 |

other:

Hole:	T94R14		Proj	ect:	Telkwa D	rillin	g 1994		-
Site:	31		Date	Fini	shed: 08	/30/95	(Month/I	Day/Year)	
Torren	s Locatio	on: ·.							
lsd	sect	twp	rg	w	Litholo	gy <sup>'</sup> by:	Don		
					Drill	Contr:	McAuley	Drilling	
Surveyed Location:					Dr	iller:	Don	••	
N:	0.0				Geoph.	Comp:	Century	Geophysi	cal
E:	0.0								
EL:	0.0					Logs:	gamma		sonic
							densit	-y	neutron
Casing	: 0.0						calipe	er	electric
Case Type: verticality digmet							dipmeter		
Downho	le Units	: Fee	t						
							other		

Comments:

No casing / no geophysical logs

DEPTH DEPTH | DESCRIPTION (ft) (m) \_\_\_\_ 20.0 6.10 | till 104.0 31.72 gravel 130.0 39.65 - , gray, soft 348.0 106.14 | till, gray 503.0 153.42 | till, gray, medium soft 510.0 155.55 -

[ COMMENTS

L

# gravel

| boulders, pea gravel and sand-some rocks - what appeared to be soft shale | gravel- dense with rocks ,

-----

| silty coal ships and pebbbles

.

- volcanics-red-hard

Hole:	T94R15	•	Pro	ject:	Telkwa Drilling	1994		
Site:	53		Date	e Fin	ished: 08/26/94	(Month/Day/Year	•}	
Torrer	ns Locati	.on:						
lsd	sect	twp	rg	w	Lithology by:	Dean		
			•		Drill Contr:	Cora Lynn Drill	ing	•
Survey	ed Locat	ion:			Driller:	Dean		
N:	0.0	)			Geoph. Comp:	Century Geophys	ical	
E:	0.0	)						•
EL:	0.0	)			Logs:	gamma	sonic	•
						density	neutron	
Casing	J: 0.0					caliper ·	electric	• .
Case 1	Cype:		•			verticality	dipmeter	
Downho	 ble Units	: Met	ers				-	
			.•			other:		
Commer	nts:							
					•	•		
·								
	',					,		
ກອກຫາ	ז דייריסור		COLUMN TO TO	NT.				
1561		1	LAIPIIO	14	r		•	
(16)	(m)	I					•	 I
766 6								I noorly cons or, casing broken @10m denth
200.0	, 171.00	1 Ard	1 GT					poorry come. gr, casing proven arow depen

Hole:	T94R16	Project: Telkwa Drilling 1994
Site:	34 .	Date Finished: 08/26/94 (Month/Day/Year)

Torren	s Locat	ion:							
lsð	sect	twp	rg	w	Litholo	gy by:	MacBeth		
					Drill	Contr:	McAuley	Drilling	
Survey	ed Loca	tion:			Dr	iller:	MacBeth		
Ń:	0.	0			Geoph.	Comp :	Century	Geophysic	al
E:	0.	0	•						
EL:	0.	0				Logs:	gamma		sonic
							densi	ty	neutron
Casing	: o.	0					calips	er	electric
Case T	ype:				-		vertic	cality	dipmeter
Downho!	le Unit	s: Fe	et		· -				
,							other	:	

Comments:

.

No geophysical logs

```
| COMMENTS
DEPTH DEPTH | DESCRIPTION
 {ft}
    (m)
                                                      3.0 0.92 | till
                                                                      .
                                                      14.0 4.27 till
                                                      gravel
100.0 30.50 - colluvium
                                                      - till
144.0 43.92 | gravel
                                                      till
320.0 97.60 | gravel
                                                      | till, O/B (tertiary sands and gravels)
360.0 109.80 -
                                                      - volcanic rx to T.D.
  .
```

Hole Id: T94R17

•

Hole:	T94R17		Proj	ect:	Telkwa Drillin	g 1994	
Site:	49		Date	Fini	shed: 08/26/95	(Month/Day/Year	c)
Torrens	s Locatio	on:	•				•
lsd	sect	twp	rg	W	Lithology by:	Mike	
					Drill Contr:	Cora Lynn Dril	Ling
Surveye	ed Locat:	ion:			Driller:	Mike	
N:	0.0		•		Geoph. Comp:	Century Geophys	sical
E:	0.0						
EL:	0.0				Logs:	x gamma	sonic
						x_density	neutron
Casing	: ` 0.0					x caliper	x electric
Case Ty	/pe:					verticality	. dipméter
Downho.	le Units	: Metera	s				
			•	•		other:	

Comments:

DEPTH (ft)	DEPTH   (m)	DESCRIPTION	Comments
124.6	38.00	gravel	clay
209.8	64.00	mudstone, medium soft	dark red/brown
226.2	69.00 -	mudstone, medium soft	- dark red/brown; interbedded calcite
282.0	86.00	mudstone, medium soft	dark red/brown; slightly darker in colour
321.3	98.00	siltstone, medium soft	dark red/brown
341.0	104.00 -	siltstone, medium soft	- dark re/br; gy and wh conglomerate layers
370.5	113.00	siltstone, medium soft	dark red/brown;soft white mudstone layers
383.6	117.00	siltstone, medium soft	dark red/brown; calcite layers
400.0	122.00 -	sandstone (coarse), medium soft	- light green/white, mostly white in colour
403.3	123.00	siltstone, hard	dark red/brown
442.6	135.00	siltstone, medium soft	dark red/bronw; mudstone layers
472.1	144.00 -	siltstone, dark green, medium soft	-
544.3	166.00	siltstone, medium soft	dark red/brown
547.5	167.00	siltstone, dark gray, medium soft	green specks
557.4 :	170.00 -	sandstone (fine), medium soft	- dark red/brown
626.2	191.00	siltstone, medium soft	dark red/brown
662.3 :	202.00	siltstone, medium soft	dark red/brown; green layers interbeddéd
714.8	218.00 -	siltstone, medium soft	- dark red/brown
721.3	220.00	siltstone, medium soft	dark red/brown
842.6	257.00	siltstone, medium soft	dark red/brown
872.1 :	266.00 -	siltstone	- dark red/green
941.0	287.00	mudstone, soft	dark red/grey

#### Downhole Cuttings Description Program - Ver 1.00

Hole Id: T94R18

Hole:	T94R18		Proj	Project: Telkwa Drilling 1994					
Site:	45		Date	Fin	ished: 08/26/95	(Month/Day/Year	)		
Torren	s Locati	ion:							
lsd	sect	twp	rg	w	Lithology by:	McAuley			
					Drill Contr:	McAuley Drillin	g		
Surveyed Lòcation:				Driller: McAuley					
N:	0.0	)			Geoph. Comp:	Century Geophys	ical		
E:	0.0	)							
EL:	0.0	)			Logs:	x gamma	sonic		
						x density	neutron		
Casing	: 0.0	}				x caliper `	electric		
Case T	pe:					verticality	dipmeter		
Downho	le Units	3: E	eet.						

other: Resistivity

Comments:

Geophysical logs to 30m only.

DEPTH DEPTH | DESCRIPTION [ COMMENTS (m) (ft) . . [ -----\_\_\_\_\_ 60.0 18.30 | till gravel and rocks 70.0 21.35 | gravel red till-pebbles 105.0 32.03 - sand - sandy silt and red gravel 130.0 39.65 | till | red silty till and rocks 169.0 51.55 | till green/brown and rocks 337.0 102.79 - sandstone (fine), light gray, medium soft - sedimentary rx; sl. carb 359.0 109.50 | mudstone, dark gray, medium soft | reworked volcanics 370.0 112.85 | sandstone (fine), hard gy,gr,re; interbedded. volcanic rx

#### Downhole Cuttings Description Program Ver 1.00

Project: Telkwa Drilling 1994

Hole: T94R19

Hole Id: T94R19

Date Finished: 08/26/94 (Month/Day/Year) Site: 44 Torrens Location: sect Lithologý by: Dean lsđ two ra Drill Contr: Cora Lynn Drilling Driller: Dean Surveyed Location: N: 0.0 Geoph. Comp: Century Geophysical 0.0 Ε: sonic EL: 0.0 Logs: gamma density neutron caliper electric Casing: 0.0 verticality dipmeter Case Type: Downhole Units: Meters other: Comments: | COMMENTS DEPTH DEPTH | DESCRIPTION 1 (ft) (m) | rocks 127.9 39.00 | clay light green/blue 147.5 45.00 | mudstone, soft 160.7 49.00 - mudstone, white, soft 1 170.5 52.00 | mudstone, light green, soft 206.6 63.00 | conglomerate, medium soft | light red, yellow, green, white 213.1 65.00 - mudstone, dark violet, medium soft - light green interbedded mudstone | fractured 5gpm water 219.7 67.00 | mudstone, dark yellow 272.1 83.00 | conglomerate, dark green light green, white, black interbedded - dark red/brown 396.7 121.00 - siltstone, hard 498.4 152.00 | siltstone, light green, medium soft | soft mudstone layers | dark red/brown 563.9 172.00 | siltstone, hard

675.4 206.00 - mudstone, dark brown, médium soft

#### Page 1

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Hole Id: T94R20

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Deee	-
	_

Hole: Site:	T94R20 41		Proj Date	ject: e Fín	Montgom ished: 0	ery Dri: 0/00/00	lling 1994 (Month/Day/Year)		
Torren	Torrens Location:								
lsd	sect	twp	rg	w	Lithol	ogy by:	Don		
					Drill	Contr:	McAuley Drilling	r	
Survey	ed Locat	ion:			D	riller:	Don		
N:	0.0			•	Geoph	. Comp:	Century Geophysi	.cal	
E:	0.0								
EL:	0.0					Logs:	gamma	sonic	
							density	neutron	
Casing	. 0.0						caliper	electric	
Case T	ype:						verticality	dipmeter	
Downho	le Units	: F	et						
							other:		
Comment	ts:								

DEPTH	DEPTH   DESCRIPTION	COMMENTS
(ft)	(m) [	I
72.0	21.96   till	clay-rocks
81.0	24.71   gravel	I
87.0	26.54 - till	- clay-rocks
94.0	28.67   conglomerate, hard	gr,wh,gy; includes vol. rock fragments
113.0	34.47   sandstone (fine), dark gray, soft	1
170.0	51.85 - sandstone (coarse), light gray, hard	- carby layer 34.1? and 49.6
214.0	65.27   conglomerate	. light green, blue, white
230.0	70.15   siltstone, light brown, hard	soft mudstone light grey layers
235.0	71.68 - sandstone (coarse), hard	- light gr,wh,gy,with vol.rock fragments
276.0	84.18   conglomerate, hard	<pre>light red,green,white,grey,black</pre>
277.0	84.49   mudstone, dark yellow, hard	· [
282.0	86.01 - conglomerate, hard	- light green, white, gray and dark red
301.0	91.80   conglomerate, dark brown, hard	white specks
310,0	94.55   siltstone, dark red, medium soft	mudstone layers, white interbedded, vol.
315.0	96.08 - siltstone, hard	- dark red/brown
317.0	96.69   sandstone (fine), hard	. dark red/brown, white specks
390.0	118.95   siltstone	dark red/brown, interbedded fine s.s., gr

## Downhole Cuttings Description Program Ver 1.00

Hole Id: T94R21

7

.

Hole:	T94R21		Pro	Project: Montgomery Drilling 1994								
Site:	40		Date	Fin:	ished: 00/00/00	(Month/Day/Year	)					
			•		,							
Torrens Location:												
lsd	sect	twp	rg	w	Lithology by:	Don						
					Drill Contr:	McAuley Drillin	g					
Survey	ed Locat	ion:			Driller:	Don						
N:	0.0	I			Geoph. Comp:	Century Geophys	ical					
E:	0.0	I.				•						
EP: .	0.0	I			Logs:	gamma	sonic					
						density	neutron					
Casing	: 0.0	I.			-	caliper	electric					
Case T					verticality	dipmeter						
Downho	le Units	: Fe	et	:								

Comments:

DEPTH DEPTH | DESCRIPTION | COMMENTS (ft) (m) 1 -----\_\_\_\_\_ ------70.0 21.35 | clay rocks 99.0 30.20 | gravel 1 113.0 34.47 - gravel - clay and rocks 116.0 35.38 | sand 1 121.0 36.91 | gravel 1 190.0 57.95 - clay - rocks 214.0 65.27 | mudstone, dark red, soft | volcanics to T.D. 232.0 70.76 | mudstone, light violet, medium soft | yellow and black specks 267.0 81.44 - mudstone, dark red, soft

other:

Hole Id: T94R22

Hote:	T94RZ2		Pro	Project: Montgomery Drilling 1994							
Site:	39		Dat	e Fir	nished:	08/26/94	(Month/Day/Year	-)			
	•					,					
Torren	s Locati	on:									
lsd	sect	twp	rg	w	Litho	logy by:	Don				
					Dril	1 Contr:	McAuley Drillin	ıg			
Surveyed Location:						Driller: Don					
N:	0.0				Geop	h. Comp:	Century Geophys	sical			
E:	0.0			•							
EL:	0.0					Logs:	gamma	sonic			
							density	neutron			
Casing	: 0.0						caliper	electric			
Case Type:							verticality	dipmeter			
Downho	le Units	: Fe	et								
							other:				
Comment	ts:										

DEPTH DEPTH | DESCRIPTION COMMENTS (ft) (m) L ----------115.0 35.08 | till, gray gravel 125.0 38.13 | till, red and rocks 126.0. 38.43 - silty mudstone, hard - s.s. (medium) grey-carb sed rx 130.0 39.65 | siltstone, green | volcanic rx 152.0 46.36 | sandstone (medium), green | volcanic rx - green and brown, volcanic rx 160.0 48.80 - sandstone (medium), hard 175.0 53.38 | sandstone (medium), brown 1 180.0 54.90 | sandstone (medium), brown | mudstone interbedded, volcanic rx 200.0 61.00 - sandstone (medium) - red/green, volcanics

#### Page 1
Hole:	T94R23		Proje	ect:	Montgo	oner	y Dri:	lling 199	94		
Site:	51		Date	Fin	ished:	08/	30/94	(Month/I	)ay/Year)		
Torren	is Locat:	ion:									
lsd	sect	twp	rg	w	Litho	olog	y by:	Don			
					Dri	11 C	ontr:	McAuley	Drilling		
Survey	ed Locat	tion:				Dri	ller:	Don			
N:	0.	0			Geor	ph.	Comp:	Century	Geophysi	cal	
E:	0.	D				•				•	
EL:	0.0	D					Logs:	ganna		sonic	
								densit	ÿ	neutron	
Casing		0						calips	r	electric	
Case 1	ype:						•	vertio	ality	dipmeter	
Downho	le Unit:	s: Fe	et								
								other	:		
Commen	ts:		•								

DEPTH DEPTH | DESCRIPTION COMMENTS (ft) (m) 1 \_\_\_\_ 24.0 7.32 | till 161.0 49.11 | sandstone (medium), gray, medium soft coal stringer 20.1m >< 163.0 49.72 - mudstone, soft - carby 183.0 55.82 | sandstone (medium), dark gray, medium soft 184.0 56.12 | mudstone, dark gray, soft carby 217.0 66.19 - sandstone (medium), gray, medium soft 226.0 68.93 | siltstone, gray, soft | carby, coal layers 235.0 71.68 | sandstone (fine), gray, medium soft E 302.0 92.11 - sandstone (medium), gray, medium soft 304.0 92.72 [ COAL (clean), black, soft I 323.0 98.52 | mudstone, brown, medium soft coal layers 92.0-97.0m 348.0 106.14 - sandstone (fine), gray, hard - coal layers 100.-101.4m 353.0 107.67 | conglomerate, hard | yellow, white, grey, black 371.0 113.16 | sandstone (medium), gray, hard | siltstone layers, dark grey 384.0 117.12 - mudstone, dark gray, medium soft - sandstone (m) layers 386.0 117.73 | COAL (clean), black, soft | coal and coarse sandstone layers 388.0 118.34 | mudstone, gray, medium soft | siltstone layers 393.0 119.87 - conglomerate, medium soft - white, grey, black; coal layers; coal(c) 400.0 122.00 | sandstone (coarse), light gray, medium soft | coal (c), coal layers 409.0 124.75 | mudstone, light gray, soft | coal layers 414.0 126.27 - sandstone (medium), light gray, medium soft - coal and calcite layers 422.0 128.71 | siltstone, light gray, medium soft | coal and calcite layers 427.0 130.24 | sandstone (coarse), light gray, medium soft 1 451.0 137.56 - siltstone, brown, medium soft 483.0 147.32 | sandstone (coarse), light gray, soft 486.0 148.23 | COAL (clean), dark brown, soft 500.0 152.50 - sandstone (coarse), greenish gray, hard - possible conglomerate 511.0 155.86 | conglomerate, light green, hard white and black specks 529.0 161.35 | , medium soft | dark red, green; volcanics

Hole:	T94R24		Proj	ect: Montg	omery Dri	lling 1994	
Site:	3		Date	Finished:	00/00/00	(Month/Day/Year	;)
Torren	s Locat	ion:					
lsd	sect	twp	rg '	w Lith	ology by:	Don	
				Dri	ll Conțr:	McAuley Drillin	g
Survey	ed Loca	tion:			Driller:	Don	
N:	0.	0		Geo	ph. Comp:	Century Geophys	ical
E:	0.	0	•				
EL:	0.	0			Logs:	gamma	sonic
						density	neutron
Casing	: 0.	0				caliper	electric
Case T	ype:					verticality	dipmeter
Downho	le Unit:	s: Fe	et		•		
					•	. other:	
Commen	ts:					•	

DEPTH (ft)	DEPTH   DESCRIPTION (m)	( Comments
4.0	1.22   till, brown	with rocks
50.0	15.25   till, gray	with rocks
62.0	18.91 - sandstone (medium), soft	- false bedrock
68:0	20.74   till, gray	
92.0	28.06 gravel	cemented
105.0	32.03 - sandstone (medium), medium soft	
177.5	54.14   sandstone (coarse), medium soft	]
179.0	54.60   COAL (clean)	1
200.0	61.00 - sandstone (coarse), medium soft	-
270.0	82.35   sandstone (coarse), medium soft	s.s. with interbedded mudstone
279.0	85.10   COAL (clean), medium soft	coal (c); had trouble with returns
285.5	87.08 - sandstone (medium), medium soft	-
288.0	87.84   COAL (clean)	1 .
288.5	87.99   mudstone	sandstone (m)
292.0	89.06 - COAL (clean), medium soft	-
307.0	93.63   mudstone	1
307.3	93.73   COAL (clean), medium soft	coal stringers
325.0	99.13 - silty mudstone.	-
326.0	99.43   COAL (dirty)	coal and carb shale
350.0	106.75   silty mudstone, medium soft	siltstone and s.s. interbedded
356.0	108.58 - COAL (dirty)	-
370.0	112.85   silty mudstone	s.s.(m); siltstone and s.s. interbedded

Hole:	T94R25 Project: Montgomery Drilling 19						ling 1994	
Site:	54		Dat	e Fin	ished: 0	9/01/94	(Month/Day/Year)	•
Torren	s Locati	.on:		-				
lsd	sect	twp	rg	w	Lithol	ogy by:	Don	
· .					Drill	Contr:	McAuley Drilling	J
Surveyed Location: D						riller:	Don .	
N:	0.0	÷ *	•		Geoph	. Comp:	Century Geophysi	cal`
E:	0.0	)						
EL:	0.0	)				Logs:	gamma	sonic .
							density	neutron
Casing	: 0.0	)					caliper	electric
Case T	уре:						verticality	dipmeter
Downho	le Units	: Fe	et		•			
•							other:	
-								

Comments:

	t i i i i i i i i i i i i i i i i i i i	
DEPTH	DEPTH   DESCRIPTION	COMMENTS
(ft)	(m)   ^	
	·	····
58.0	17.69   till	
68.0	20.74   sandstone (medium), gray, medium soft	
97.0	29.59 - siltstone, brown, medium soft	- soft white mudstone layers
99.0	30.20   COAL (dirty), black, soft	interbedded with carby shale
123.0	37.52   sandstone (fine), light brown, medium soft	1
124.0	37.82 - mudstone, dark brown, soft	- carby
140.0	42.70   siltstone, light brown, medium soft	Į.
143.0	43.62   sandstone (coarse), black, medium soft	1
146.0	44.53 - conglomerate	- ·
163.0	49.72 [ siltstone, light brown, medium soft	l
195.0	59.48   sandstone (coarse), gray, medium soft	· · · · · · · · · · · · · · · · · · ·
197.0	60.09 - mudstone, light gray, medium soft	-
199.0	60.70   mudstone, medium soft	dark red/brown; ?volcanics
206.0	62.83   mudstone, dark green, medium soft	?volcanics
227.0	69.24 - mudstone, dark red, medium soft	- dark red/brown; volcanics
348.0	105.14   siltstone, dark red, medium soft	dark red/brown
	•	

Site:	56		Date	Fiņished:	00/00/00	(Month/Day/Year)	
Torrens	s Locati	on:					
lsd	sect	twp	rg	w Lith	ology by:	Don	
				Dri	ll Contr:	McAuley Drilling	
Surveye	ed Locat	ion:			Driller:	Don	
N:	0.0			Geoj	ph. Comp:	Century Geophysi	cal
E:	0.0						
EL:	0.0				Logs:	gamma	sonic
	•		-			density	neutron
Casing	. 0.0					caliper	electric
Case Tj	/pe:					verticality	dipmeter
Downho]	Le Units	: Fe	et				
						· other:	

Project: Montgomery Drilling 1994

Comments:

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Hole: T94R26

DEPTH DEPTH | DESCRIPTION COMMENTS

(ft)	(m)   	1
21.0	5.41   colluvium	till .
280.0	85.40   sandy siltstone, dark red, medium soft	volcanic rx below O/B to T.D.

- grey, brown, green, white, red; volcanics

.

Hole:	T94R27		Project: Montgomery Drilling 1994						
Site:	55		Date	e Fin	ished:	00/00/00	(Month/Day/Year	;)	
Torrens	s Locati	on:						-	
lsd	sect ·	twp	rg	w	Litho	ology by:	Don		
	-				Dril	1 Contr:	McAuley Drillin	g	
Surveye	ed Locat	ion:				Driller:	Don		
N:	0.0	*			Geor	h. Comp:	Century Geophys	ical	
E:	0.0								
EL:	0.0					Logs:	gamma	sonic	
						-	density	neutron	
Casing	: 0.0						caliper	electric	
Case Ty	ype:						verticality	dipmeter	
Downhol	le Unitș	: F(	eet						
							other:		

Comments:

430.0 131.15 - , hard

DEPTH	DEPTH	DESCRIPTION	COMMENTS
(ft)	(m)		
	, 	·	
21.0	6.41	till	grey/brown, rocks
28.0	8.54	gravel .	
58.0	17.69 -	till ·	reddish/brown, rocky
58.4	17.81 [	, hard	
129.0	39.35 [	sandstone (fine), light gray, medium soft	carb traces
131.0	39.96 -	sandstone (medium), dark gray, medium soft	laced with coal banding
140.0	42.70	mudstone, dark gray, medium soft	laced with coal banding
151.0	46.06	sandstone (medium), dark gray, hard	carb traces
153.0	46.67 -	sandstone (fine), white, medium soft	
159.0	48.50	sandstone (medium), hard	grey/blue
182.0	55.51	sandstone (coarse), dark gray	carb traces
189.0	57.65 -	mudstone, medium soft .	
209.0	63.75	sandstone (coarse), light gray, hard	banded .
214.0	65.27	COAL (clean), dark gray	carb traces
220.0	67.10 -	mudstone, dark gray, medium soft	coal stringers
226.0	68.93	sandy siltstone, dark gray, hard	
243.0	74.11	mudstone, light gray, medium soft	carb traces and coal stringers
246.0	75.03 -	sandstone (medium), dark gray, hard	
252.0	76.86	COAL (clean)	dark brown siltstone stringers
259.0	79.00	mudstone, light gray	coal bands
264.5	80.67 -	COAL (clean)	
268.0	81.74	mudstone, light gray	
271.0	82.66	sandstone (fine), light gray, hard	
278.0	84.79 -	· · · ·	- volcanics ?
299.0	91.19	mudstone, light gray	coal bands
303.0	92.41	COAL (clean)	
307.0	93.63 -	sandy siltstone, dark brown, hard	· .
325.0	99.13	sandy siltstone, light brown, hard	. <u> </u>
329.0	100.35	sandstone (coarse), hard	multi coloured
355.0	108.28 -	mudstone, light brown, hard	. ·
367.0	111.94 (	mudstone, dark brown, medium soft	l
371.0	113.16	sandy siltstone, red, hard	

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Rote:	T94R28		Pro	ject:	Montgomer	cy Dru	(11ng 1994	
Site:	10		Dat	e Fin	ished: 09,	/02/94	(Month/Day/Yea	ar)
Torren	s Locati	on:				,		
lsd	sect	twp	rg	w	Litholog	y by:	Don	
					Drill (	Contr:	McAuley Drill:	ing
Survey	ed Locat	ion:			Dri	iller:	Don	
N:	0.0				Geoph.	Comp :	Century Geophy	ysical
E:	0.0							
EL:	0.0					Logs:	gamma	sonic
							density	neutron
Casing	: 0.0						caliper	electric
Case Ty	ype:				•		verticality	dipmeter
Downho	le Units	: Fe	et					
							other:	

Comments:

DEPTH DEPTH | DESCRIPTION | COMMENTS (ft) (m) I \*\*\*\*\* -------31.0 9.46 | till L 48.0 14.64 | sandstone (medium), dark gray, medium soft I 57.0 17.39 - mudstone, gray, soft - 16.1m coal stringer 63.0 19.22 | mudstone, light gray | very soft almost clay 77.0 23.49 | mudstone, light gray, medium soft | black mudstone interbed 95.0 28.98 - sandstone (coarse), medium soft - conglomerate ? 101.0 30.81 | sandstone (coarse), light gray, hard | 25.4m coal stringers 103.0 31.42 | siltstone, dark gray, medium soft Т 104.0 31.72 - COAL (clean), black, soft 106.0 32.33 | mudstone, black, soft | pyrite layers 109.0 33.25 | siltstone, gray, medium soft L 118.0 35.99 - mudstone, dark brown, soft - pyrite layers | 36.6m coal stringer . 125.0 38.13 | sandstone (fine), dark gray, medium soft 130.0 39.65 | mudstone, medium soft | blue/grey 148.0 45.14 - siltstone, dark gray, soft 223.0 68.02 | sandstone (fine), gray, soft 393.0 119.87 | sandstone (medium), light gray, medium soft 1 445.0 135.73 - sandstone (fine), gray, hard

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Hole:	T94R29		Pro	ject:	Montgomery Dri	lling 1994		
Site:	2		Dat	e Fin	ished: 09/04/94	(Month/Day/Yea)	c)	
Torren	s Locati	.on:						
lsd	sect	twp	rg	w	Lithology by:	Don		
				·	Drill Contr:	McAuley Drillin	ng	
Survey	ed Locat	ion:		Driller: Don				
N:	0.0	1			Geoph. Comp:	Century Geophys	sical	
E:	0.0	)						
EL:	0.0	)			Logs:	gamma .	sonic	
						density	neutron	
Casing	· 0.0	)				caliper	electric	
Case T	ype:					verticality	dipmeter	
Downho	le Units	: · Fe	et					
						other:		

Comments:

DEPTH (ft)	DEPTH   (m)	DESCRIPTION	COMMENTS
9.0	2.75	till	
11.0	3.36	sandstone (medium), brown, soft	
16.0	4.88 -	sandstone (fine), gray, medium soft	-
70.0	21.35	sandstone (medium), light gray, medium soft	
117.0	35.69	sandstone (fine), dark gray, medium soft	soft layers
122.0	37.21 -	COAL (clean), black, soft	- <u> </u>
128.0	39.04	mudstone, soft	carby, coal stringers
138.0	42.09	sandstone (fine), dark gray, medium soft	siltstone interbedded
165.0	50.33 -	mudstone, dark gray, soft	- 42.8m pyrite layer and coal stringers
175.0	53.38	sandstone (fine), gray, medium soft	52.3m coal stringers
183.0	55.82	mudstone, dark gray, soft	53.8m coal
186.0	56.73 -	COAL (clean), gray, soft	-
209.0	63.75	mudstone, dark gray, soft	57.5m pyrite 59.4m coal
222.0	67.71	COAL (clean), black, soft	· ·
233.0	71.07 -	sandstone (fine), gray, soft	-
246.0	75.03	mudstone, dark gray, soft	
282.0	86.01	sandstone (fine), light gray, medium soft	l
292.0	89.06 -	sandstone (medium), light gray, hard	-
347.0	105.84	sandstone (coarse), light gray, hard	very hard
473.0	144.27	sandstone (medium), light gray, hard	118m slightly softer
480.0	146.40 -	mudstone, black, medium soft	- possible coal?
506.0	154.33	sandstone (fine), light gray, medium soft	l
510.0	155.55	sandstone (medium), gray, medium soft	l
			. •

#### Downhole Cuttings Description Program Ver 1.00

Hole Id: T94R30

Hole:	T94R30	Project: Montgomery Drilling 1994
Site:	6	Date Finished: 00/00/00 (Month/Day/Year)

#### Torrens Location: lsđ sect two Lithology by: Don rg w . Drill Contr: McAuley Drilling . Surveyed Location: Driller: Don 0.0 Geoph. Comp: Century Geophysical N: . E: 0.0 EL: 0.0 sonic Logs: gamma density neutron Casing: 0.0 caliper electric Case Type: verticality dipmeter . Downhole Units: Feet

other:

Comments:

 DEPTH
 DEPTH
 DESCRIPTION
 COMMENTS

 (ft)
 (m)
 |
 |

 89.0
 27.15
 | colluvium
 | gravel, till

 138.0
 42.09
 | mudstone, red, medium soft
 | s/ss, volcanic rx

 146.0
 44.53 - mudstone, medium soft
 - grey/blue, burnt

 200.0
 61.00
 | mudstone, red, medium soft
 | volcanics

Hole: T94R31

Site: •			Date	Fin:	ished:	09,	/05/94	(Month/Day/Year	)	
Torrens	Locati	.on:								
lsd s	sect	twp	rg	W	Lith	olo	gy by:	Don		
					Dri	11 0	Contr:	McAuley Drillin	a	
Surveyed	l Locat	ion:				Dr:	iller:	Don		
N:	0.0	I	•		Geo	ph.	Comp:	Century Geophys	ical	
E:	0.0	I								
EL:	0.0	I			٠		Logs:	gamma	sonic	
								density	neutron	
Casing:	0.0	1						caliper	electric	
Case Typ	pe:							verticality	dipmeter	
Downhole	e Units	: Fe	et	•						
			•					other:		
Comments	3:			•						

Project: Montgomery Drilling 1994

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DEPTH	DEPTH	DESCRIPTION .	COMMENTS
(ft)	(m)		l
21.0	6.41	till	
46.0	14.03	sandstone (medium), gray, medium soft	· ·
60.0	18.30 -	sandstone (coarse), light gray, hard	- carby layers interbedded
62.0	18.91	sandstone (medium), light gray, medium soft	
200.0	61.00	sandstone (fine), dark gray, hard	44.3m pyrite layer-brown sandstone layers
202.0	61.61 -	sandstone (fine), light brown, soft	- carby layers
208.0	63.44	sandstone (fine), light gray, hard	· ·
210.0	64.05 [	sandstone (fine), light brown, soft	carby layers
231.0	70.46 -	sandstone (fine), light gray, hard	· . `
235.0	71.68	sandstone (medium), dark gray, hard	1
236.0	71.98	sandstone (medium), dark brown, hard	
245.0	74.72 -	sandstone (medium), light gray, hard	
250.0	76.25	sandstone (medium), dark gray, hard	-
261.0	79.61	sandstone (coarse), light gray, medium soft	
263.0	80.22 -	sandstone (fine), dark gray, hard	-
283.0	86.32	sandstone (coarse), light gray, hard	
306.0	93.33	sandstone (medium), light gray, hard	carby layers-fractured at 86.5m
310.0	94.55 -	sandstone (fine), dark brown, hard	- carby layers
314.0	95.77	sandstone (fine), dark gray, hard	carby layers
327.0	99.74	sandstone (medium), light gray, hard	
366.0	111.63 -	sandstone (coarse), light gray, hard	-
396.0	120.78	sandstone (fine), light gray, hard	very hard
433.0	132.07	sandstone (medium), light gray, medium soft	
443.0	135.12 -	sandstone (coarse), light gray, medium soft	- carby layers-possible coal? 130m
478.0	145.79	mudstone, dark gray, soft	very soft-133 to 38m, coal layers-thick?
483.0	147.32	mudstone, dark gray, soft	carby
510.0	155.55 -	sandstone (medium), dark gray, medium soft	-
519.0	158.30	sandstone (fine), dark brown, hard	
540.0	164.70	sandstone (coarse), light gray, hard	[
562.0	. 171.41	mudstone, light brown, soft	-
566.0	172.63	sandstone (medium), gray, medium soft	I
580.0	176.90	siltstone, light brown, medium soft	1
587.0	179.04 -	sandstone (coarse), light gray, hard	-

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596.0 181.78 | mudstone, dark gray, soft

606.0 184.83 | sandstone (medium), light gray, medium soft

629.0 191.85 - conglomerate, hard

649.0 197.95 | mudstone, soft

671.0 204.66 | mudstone, dark red, soft.

| pyrite layer at 176.2m

1

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- red, green, blue, white, grey | dark red/green, volcanics

Hole Id: T94R32

Hole:	T94R32		Pro	ject:	Montgome	ry Dril	lling 1994		
Site:	8		Date	e Fin	ished: 09	/07/94	(Month/Da	y/Year)	
Torren	s Locati	on:							
lsd	sect	twp	rg	w	Litholo	gy by:	Don		
					Drill	Contr:	McAuleý D	rilling	
Survey	ed Locat	ion:		•	Dr	iller:	Don		
N:	0.0	}			Geoph.	Comp:	Century G	eophysi	cal
E:	.0.0	}							
EL:	0.0	}				Logs:	gamma	-	sonic
						•	density		neutron
Casing	: 0.0	۰					caliper		electric
Case T	ype:						vertica	lity	dipmeter
Downho	le Units	: Fe	et						
							other:		
-									

Comments:

DEPTH	DEPTH   DESCRIPTION	COMMENTS
(ft)	(m)	
32.0	9.76   till	
65.0	19.83   sandstone (medium), light gray, medium soft	
146.0	44.53 - sandstone (coarse), dark gray, medium soft	- carby layers
155.0	47.28   sandstone (fine), dark gray, medium soft	1
167.0	50.94   siltstone, dark gray, soft	
169.0	51.55 - sandstone (fine), dark gray, medium soft	-
183.0	55.82   sandstone (medium), dark gray, medium soft	carby at 52m and 53.6m
203.0	61.92   sandstone (coarse), light gray, medium soft	interbedded carby
206.0	62.83 - sandstone (fine), dark brown, soft	-
220.0	67.10   sandstone (fine), light gray, medium soft	carby 63.8m-interbedded throughout
247.0	75.33   sandstone (fine), dark gray, soft	1
256.0	78.08 - mudstone, black, soft	- possible coal seams 74.1 to 76.7m
268.0	81.74   siltstone, dark gray, soft	79.7-80.1m coal?
280.0	85.40   sandstone (coarse), light gray, medium soft	
287.0	87.54 - sandstone (coarse), light gray, soft	- carby layers, conglomerate?
297.0	90.58   sandstone (fine), dark gray, hard	1
301.0	91.80   mudstone, black, soft	coal?
303.0	92.41 - mudstone, dark brown, soft	- carby?
314.0	95.77   mudstone, black, soft	coal?
322.0	98.21   mudstone, dark gray, medium soft	I
326.0	99.43 - sandstone (coarse), light gray, medium soft	-
328,Q	100.04   sandstone (fine), dark brown, medium soft	Ι
342.0	104.31   siltstone, light brown, hard	coarse sandstone layers interbedded
368.0	112.24 - mudstone, black, soft	- interbedded brown siltstone and bk mdsn
375.0	114.38   mudstone, dark brown, hard	I
381.0	116.21   sandstone (fine), light brown, hard	1
387.0	118.04 - sandstone (coarse), hard	- conglomerate-light red, green, grey
395.0	120.48   sandstone (coarse), light gray, medium soft	mudstone layers
402.0	122.61   mudstone, dark red, medium soft	green interbed layers, volcanics
449.0	136.95 - mudstone, dark red, medium soft	- volcanics

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Hole: TS	4R34	Project: 1	Montgomery Dril	lling 1994	
Site: 9	,	Date Finis	shed: 09/08/94	(Month/Day/Year)	
Torrens I	ocation:			•	
lsd se	ct twp	rg w	Lithology by:	Don	
		-	Drill Contr:	McAuley Drilling	r
Surveyed	Location:		Driller:	Don	
N:	0.0		Geoph. Comp:	Century Geophysi	.cal ·
.E:	0.0				
EL:	0.0		Logs:	gamma	sonic
				density	neutron
Casing:	0.0			caliper	electric ·
Case Type	:			verticality	dipmeter

Comments:

Downhole Units: Feet

.

DEPTH	DEPTH   DESCRIPTION	COMMENTS
(ft)	(m)	ľ.
19.0	5.80   till	l .
158.0	48.19   sandstone (fine), dark gray, soft	l
166.0	50.63 - mudstone, dark gray, soft	-
201.0	61.31   sandstone (fine), dark gray, soft	1
205.0	62.53   sandstone (medium), light green, medium soft	l
223.0	68.02 - sandstone (fine), dark gray, soft	- ·
228.0	69.54   COAL (clean), black, soft	
242.0	73.81   sandstone (fine), dark gray, medium soft	1
263.0	80.22 - COAL (clean), black, soft	- mudstone break 74m?
289.0	88.15 ] sandstone (fine), gray, medium soft	l
300.0	91.50   siltstone, light gray, soft	carby and coal layers
302.0	92.11 - COAL (clean), black, soft	
333.0	101.57   mudstone, dark gray, soft	carby layers and coal layers through out
342.0	104.31   sandstone (fine), gray, medium soft	
343.0	104.62 - sandstone (coarse), light gray, medium soft	- coal?
408.0	124.44   mudstone, gray, soft	coal layers through out
420.0	128.10   sandstone (fine), gray, medium soft	carby mudstone 126m
459.0	140.00 - mudstone, gray, soft	-
467.0	142.44   sandstone (coarse), light gray, hard	mudstone layers
501.0	152.81   mudstone, dark gray, medium soft	carby layers
520.0	158.60 - sandstone (coarse), gray, medium soft	-
527.0	160.74   mudstone, gray, soft	1

other: · ·

# Downhole Cuttings Description Program Ver 1.00

Hole Id: T94R35

#### Page 1

	104000		PIO	Jecr:	Monego	mery Dr	111111g 1994	
Site:	11		Dat	e Fin	ished:	00/00/0	0 (Month/Day/Yea:	r)
Torrens	s Locati	.on:						
lsd	sect	twp	rg	w	Litho	logy by	': Don	
					Dril	l Contr	: McAuley Drillin	ng
Surveye	ed Locat	ion:				Driller	: Don	
N:	0.0	)			Geop	h. Comp	: Century Geophys	sical
E:	0.0	)						
EL:	· 0.0	)			•	Logs	: gamma	sonic
					-		density .	neutron
Casing	: 0.0	)					caliper	electric
Case T	/pe:						verticality	dipmeter
Downhol	le Units	: Fe	et					
							other:	
Comment	.s:				•			

DEPTH DEPTH | DESCRIPTION COMMENTS (ft) (ຫ) I \_\_\_\_\_ 65.0 19.83 | till brown and green 90.0 27.45 | till | reddish brown 108.0 32.94 - till, green 109.0 33.25 | COAL (clean) | coal in till 118.0 35.99 [ till | very dense or soft shale 127.0 38.74 - COAL (clean), medium soft - coal 137.0 41.79 | mudstone, light gray | coal stringer at 129 147.5 44.99 | COAL (clean), medium soft good coal 155.0 47.28 - sandy siltstone, light gray, medium soft 160.0 48.80 [ sandstone (medium), hard Т 189.0 57.65 [ , light gray, medium soft | s/ss, sf - coal-mudstone and carb stringers 192.0 58.56 - COAL (clean) 195.0 59.48 [ COAL (clean) 1 205.0 62.53 | silty mudstone, light gray L 213.0 64.97 - COAL (dirty) - carb shale and coal 248.0 75.64 | silty mudstone ] s.s. and siltstone interbedded 250.0 76.25 | carby 1 262.0 79.91 - COAL - carb shale 274.0 83.57 | sandstone (medium) | interbedded carb shale and mudstone 276.0 84.18 | COAL (dirty) -] carb shale and coal 296.0 90.28 - silty mudstone - carb 298.0 90.89 [ sandstone (fine), hard | v.hard ss looked like water producing ss 310.0 94.55 | silty mudstone | wh and gr mdsn interedded with ss 326.0 99.43 - sandstone (coarse), brown, hard - very hard 380.0 115.90 | red and multi coloured

Hole: T94R36 Project: Montgomery Drilling 1994								
Site:	1		Date	Fin	ished: 09/13,	94 (Month	/Day/Year	)
Torrer	is Locati	ion:					•	
lsd	sect	twp	rg	W	Lithology 1	oy: Don		•
					Drill Cont	r: McAule	y Drillin	a
Surveyed Location:				Driller: Don				
N:	0.0	}			Geoph. Con	np: Centur	y Geophys	ical
E:	0.0	)						
EL:	0.0	)			Log	ys: gamm	a	sonic
						dens	ity	neutron
Casing	<b>j:</b> 0.0	}				cali	per	electric
Case 1					vert	icality	dipmeter	
Downho	ole Units	s: Fe	et			•		
						othe	r:	

Comments:

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DEPTH	DEPTH	DESCRIPTION	COMMENTS
(ft)	(m)	· ·	1
59.0	18.00	till	1
69.0	21.05	gravel .	· ·
141.0	43.01 -	sandstone (fine), dark gray, medium soft	
199.0	60.70	sandstone (coarse), gray; medium soft	· ·
268.0	81.74	sandstone (fine), dark gray, medium soft	۲.
270.0	82.35 -	mudstone, light gray, medium soft	- sample?
272.0	82.96	mudstone, light gray, soft	very soft, bentinite?
283.0	86.32	sandstone (medium), dark gray, medium soft	
284.0	86,62 -	sandstone (fine), light brown, medium soft	- shell fragments
302.0	92.11	sandstone (medium), dark gray, medium soft	
311.0	94.86	sandstone (coarse), dark green, hard	
385.0	117.43 -	sandstone (medium), dark gray, medium soft	- 109.2m pyrite 109.9m carby
387.0	118.04	sandstone (fine), light brown, medium soft	
433.0	132.07	sandstone (medium), dark gray, hard	
434.0	132.37 <sup>-</sup> -	mudstone, light brown, medium soft	
484.0	147.62	sandstone (medium), dark gray, médium soft	
485.0	147.93	mudstone	carby and pyrite
498.0	151.89 -	COAL (clean), black, soft	
500.0	152.50	siltstone, light brown, medium soft	carby
503.0	153.42	mudstone, dark brown, soft	carby and pyrite
504.0	153.72 -	sandstone (fine), gray, medium soft	-
528.0	161.04	mudstone, dark brown, soft	carby
537.0	163.79	COAL (dirty), black, soft	
542.0	165.31 -	mudstone, dark gray, medium soft	
545.0	166.23	COAL (clean), black, soft	
550.0	167.75	siltstone, gray, medium soft	
552.0	168.36 -	COAL (clean), black, soft	-
564.0	172.02	mudstone, dark gray	coal layers
573.0	174.77	mudstone, dark gray	siltstone layers
598.0	182.39 -	siltstone, light gray, medium soft	-
599.0	182.70	mudstone, light brown, medium soft	
612.0	186.66	mudstone, dark gray, soft	coal layers
615.0	187.58 -	sandstone (coarse), medium soft	- conglomorate

carby

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Hole Id: T94R37

Hole: Site:	T94R37 5		Pro Dat	ject: e Fin	Montgomery Dri ished: 00/00/00	lling 1994 ) (Month/Day/Year	;}
Torrens	s Locati	on:					
lsd	sect	twp	rg	w	Lithology by:	Don	
					Drill Contr:	McAuley Drillir	ıg
Survey	ed Locat	ion:			Driller:	Don	
N:	0.0				Geoph. Comp:	Century Geophys	sical -
E:	0.0						
EL:	0.0				Logs:	gamma	sonic
						density	neutron
Casing	: 0.0					caliper	electric
Case T	/pe:					verticality	dipmeter
Downho:	le Units	: Fe	et				
						other:	

Comments:

COMMENTS DEPTH DEPTH | DESCRIPTION (ft) (m) . \_\_\_\_\_ -----155.0 47.28 | till | rocks and some gravel 200.0 61.00 | gravel | loose and cemented 235.0 71.68 - till, brown - and rocks 290.0 88.45 | volcanic below O/B to T.D.

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Hole:	T94R38		Project: Montgomery Drilling 1994						
Site:	4		Dat	e Fin	ished: 09,	/18/94	(Month/Day/Year	;)	
	-								
Torrens	8 Locati	on:							
lsd	sect	twp	rg	w	Litholog	y by:	Don		
					Drill (	Contr:	McAuley Drillin	g	
Surveye	d Locat	ion:			Dri	iller:	Don		
N:	0.0				Geoph.	Comp:	Century Geophys	ical	
E:	0.0							'	
EL:	0.0					Logs:	gamma	sonic	
							density	neutron	
Casing:	0.0						caliper	electric	
Case Ty	mpe:		•				verticality	dipmeter	
Downhol	e Units	: Fee	et						

other:

.

. Comments:

DEPTH	DEPTH	DESCRIPTION	COMMENTS .
(ft)	(m)		
86.0	26,23	till	gravel
91.0	27.76	mudstone, soft	unconsolidated
227.0	69.24	- sandstone (medium), gray, medium soft	
246.0	75.03	sandstone (fine), dark gray, medium soft	carby layers and pyrite
247.0	75.33	siltstone, white, soft	very soft
297.0	90.58	- sandstone (fine), dark gray, medium soft	
302.0	92.11	sandstone (medium), green, hard	•
307.0	93.63	sandstone (medium), gray, hard	
311.0	94.86	- siltstone, brown, medium soft	- carby interbed
327.0	99.74	sandstone (fine), dark gray, hard	
330.0	100.65	mudstone, dark brown, soft	carby
353.0	107.67	- sandstone (fine), gray; medium soft	- coal? 100-103m
417.0	127.19	sandstone (medium), greenish gray, hard	•
423.0	129.02	COAL (clean), black, soft	
433.0	132.07	- mudstone, light gray, medium soft	- calcium carbonate specks?
440.0	134.20	mudstone, dark gray, medium soft	calcium carbonate specks
452.0	137.86	conglomerate, medium soft	
454.0	138.47	- sandstone (medium), gray, medium soft	- carby mudstone layers
463.0	141.22	mudstone, brown, soft	
496.0	151.28	siltstone, gray, medium soft	
499.0	152.20	- sandstone (coarse), hard	- light red, green, white
503.0	153,42	conglomerate, medium soft	
513.0	156.47	siltstone, brown, medium soft .	
532.0	162.26	- sandstone (coarse), hard	- light red, green, white
537.0	163.79	j mudstone, brown, medium soft	,
542.0	165.31	sandstone (medium), light gray, medium soft	
548.0	167.14	- sandstone (coarse), brown, medium soft	- carby
559.0	170.50	sandstone (fine), brown, hard	
567.0	172.94	sandstone (medium), dark brown, medium soft	
576.0	175.68	- sandstone (coarse), dark gray, medium soft	- white soft mdsn with metallic flakes
586.0	178.73	conglomerate, medium soft	dark re,gr,bl,gy;wh s mdsn with bk flakes
591.0	180.26	, green, medium soft	volcanics

Hole:	T94R39		Proje	ect:	Montgome	ery Dril	ling 1994	
Site:			Date	Fini	shed: 00	0/00/00	(Month/Day/Year)	,
Torrens	Locatio	on:						
lsđ	sect	twp.	rg	w	Lithold	ogy by:	Don	•
					Drill	Contr:	McAuley Drilling	
Surveye	ed Locati	ion:			D	ciller:	Don '	
N:	0.0				Geoph.	. Comp:	Century Geophysic	al
E:	0.0		•	-				
EL:	0.0					Logs:	gamma	sonic
							density	neutron
Casing	: 0.0						caliper	electric
Case Ty	Case Type: verticality dipmeter							
Downhol	le Units:	: Feet						
							other:	

Comments:

DEPTH	DEPTH	DESCRIPTION	COMMENTS
(ft)	(m)		1
11.0	3.36	till	1
18.0	5.49	sandstone (coarse), light gray	1
35.0	10.68 -	mudstone, light gray, medium soft	- sandstone (m), interbedded
67.0	20.44	sandstone (coarse), light gray	1
79.0	24.10	sandstone (coarse), dark gray, medium soft	coaly
95.0	28.98 -	mudstone, dark gray, medium soft	- small coal stringers
125.0	38.13	sandstone (medium), light gray	1
194.5	59.32	sandstone (medium), dark gray, medium soft	coaly
199.0	60.70 -	COAL (clean), black	-
218.0	66.49	mudstone, gray, medium soft	1
220.0	67.10	mudstone, soft	l
246.0	75.03 -	mudstone, dark brown, medium soft	- carby, coal trace
251.0	76.55	COAL (clean), black, medium soft	l · ·
262.0	79.91	mudstone, gray, medium soft	1
278.0	84.79 -	sandstone (medium), dark gray, medium soft	- laced with hard brown siltstone bands
288.0	87.84	mudstone, light gray, medium soft	280 coal stringer?
306.0	93.33	mudstone, gray, medium soft	carb shale, coal-light grey,most
310.0	94.55 -	mudstone, gray, medium soft	-
321.0	97.91	mudstone, light gray, medium soft	volcanics
337.0	102.79	mudstone, dark gray, medium soft	· ·
361.0	110.11 -	sandy siltstone, light brown, hard	-
369.0	112.55	sandstone (coarse) /	brown, green, black, white
373.0	113.77	mudstone	grey, brown, black; carby
440.0 :	134.20 -	sandy siltstone, light brown	-

Hole:	T94R40		Proje	ect:	Montgo	mer	y Dril	lling 199	94	
Site:	52		Date	Fini	.shed:	00/1	00/00	{Month/I	Day/Year)	
							-			
Torrens	s Locatio	n:								
lsd	sect	twp	rg	w	Litho	log	y by:	Don .		
					Dril	1 C	ontr:	McAuley	Drilling	
Surveye	ed Locati	оп:				Dri	llcr:	Don		
N:	0.0				Geop	h. (	: qmo	Century	Geophysic	al
E:	0.0									
EL:	0.0					]	Logs :	gamma		sonic
								densil	зy	neutron
Casing	. 0.0							calips	er	electric
Case T	/pe:							vertic	cality	dipmeter
Downhol	le Units:	Feet								
								other	;	
	-									

Comments:

DEPTH	DEPTH   DESCRIPTION	COMMENTS
(ft)	(m)	l
28.0	8.54   till	gravel
48.0	14.64   conglomerate, medium soft	green, blue
52.0	15.86 - mudstone, soft	- carby
56.0	17.08   sandstone (coarse), light gray, medium soft	
79.0	24.10   conglomerate, hard .	light red,yellow,green,blue,white,grey
80.0	24.40 - sandstone (coarse), gray, medium soft	-
83.0	25.32   mudstone, dark gray, soft	1
87.0	26.54   sandstone (coarse), dark gray, medium soft	carby layers
104.0	31.72 - siltstone, dark gray, soft	-
107.0	32.64   mudstone, dark brown, soft	l
110.0	33.55   mudstone, dark brown, soft	· ·
131.0	39.96 - siltstone, gray, medium soft	-
138.0	42.09   sandstone (medium), gray, medium soft	1
147.0	44.84   mudstone, dark gray, soft	
164.0	50.02 - siltstone, brown, medium soft	-
166.0	50.63   sandstone (coarse), gray, hard	blue and red specks
169.0	51.55   conglomerate, hard	dark green, grey, brown, black
173.0	52.77 - mudstone, brown, medium soft	<b>_</b>
176.0	53.68   siltstone, brown, medium soft	1
185.0	56.43   mudstone, dark gray, medium soft	53.8m coal stringer
193.0	58.87 - mudstone, light gray, soft	<del>.</del>
196.0	59.78   siltstone, dark gray, medium soft	soft mudstone white and black, metallic
205.0	62.53   sandstone (coarse), dark gray, medium soft	soft mudstone white and black, metallic
227.0	69.24 - mudstone, medium soft	- dark red/brown
248.0	75.64   mudstone, dark violet, soft	1
327.0	99.74   mudstone, black, soft	volcanics

Page 1

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Hole:	T94R41		Pro	ject:	Montgome	ery Dri	lling 1994	
Site:			Dat	e Fin	ished: 09	/18/94	(Month/Day/Year	:)
Torrer	s Locat:	ion:						
lsd	sect	twp	rg	w	Lithold	gy by:	Don	
					Drill	Contr:	McAuley Drillin	a
. Survey	ed Local	tion:			Dr	iller:	Don	
N:	0.	0			Geoph.	Comp :	Century Geophys	ical
E:	0.	0 `						
EL:	0.	0				Logs:	gamma	sonic
							density	neutron
Casing	y: 0.	0				•	caliper	electric
Case 1	type:						verticality	dipmeter
Downho	le Unit:	s: Fe	et					
			•			•	other:	
Commer	nts: -			•				

DEPTH	DEPTH   DESCRIPTION	Comments
(ft)	* (m)	1 .
44.0	13.42   till	1
68.0	20.74   mudstone, dark grav, soft	1
125.0	38.13 - sandstone (fine). light gray, medium soft	-
130.0	39.65   sandstone (medium), dark gray, medium soft	1
142.0	43.31   sandstone (medium), light green, medium soft	
151.0	46.06 - sandstone (fine), dark brown, medium soft	-
174.0	53.07   sandstone (fine), dark gray, medium soft	1
175.0	53.38   COAL (clean), black, soft	1
179.0	54.60 - mudstone, dark gray, medium soft	
184.0	56.12   siltstone, dark gray, medium soft	1
189.0	57.65   COAL (clean), black, soft	1 ·
194.0	59.17 - mudstone, gray, soft	- coal layers
205.0	62.53   siltstone, gray, medium soft	1
216.0	65.88   sandstone (fine), gray, medium soft	62.3m coal layers
221.0	67.41 - COAL (clean), black, soft	-
230:0	70.15   sandstone (fine), dark gray, medium soft	coal layers 67.8-68.5m
2,33.0	71.07   siltstone, dark brown, medium soft	1
241.0	73.51 - sandstone (fine), dark gray, medium soft	- coal stringers
247.0	75.33   COAL (clean), black, soft	
250.0	76.25   sandstone (medium), light brown, hard	1
261.0	79.61 - COAL (clean), soft	- 76.2-77.2m siltstone layers
272.0	82.96   mudstone, gray, medium soft	soft layers white mudstone
276.0	84.18   COAL (clean), black, soft	1
285.0	86.93 - mudstone, gray, soft	<ul> <li>soft layers white mudstone</li> </ul>
288.0	87.84   COAL (clean), black, soft	· ·
297.0	90.58   mudstone, gray, soft	l
298.0	90.89 - sandstone (medium), greenish gray, hard	• ·
305.0	93.02   sandstone (coarse), greenish gray, hard	1
315.0	96.08   sandstone (coarse), hard	light green, white, grey, black
321.0	97.91 - sandstone (fine), light gray, hard	<b>-</b> ·
327.0	99.74   siltstone, dark gray, medium soft	
337.0	102.79   mudstone, dark gray, soft	coal layers
342.0	104.31 - siltstone, gray, medium soft	-

377.0 114.99 | sandstone {fine}, light gray, medium soft
447.0 136.34 | sandstone (medium), gray, medium soft
454.0 138.47 - sandstone (coarse), light gray, medium soft
487.0 148.54 | sandstone (medium), gray, medium soft

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Hole:	T94R42	Project: Montgomery Drilling 1994
Site:		Date Finished: 09/19/94 (Month/Day/Year

Torren	s Locat	ion:					
lsd	sect	twp	rg	w	Lithology by:	Don	
					Drill Contr:	McAuley Drillin	g
Survey	ed Loca	tion:			Driller:	Don	
N:	0.	0			Geoph. Comp:	Century Geophys	ical
E:	0.	0					
EL:	0.	0			Logs:	gamma	sonic
						density	neutron
Casing	: 0.	0				caliper	electric
Case T	ype:			•		verticality	dipmeter
Downho	le Unit	s: Fe	et	•	••	•	
					•	other:	

Comments:

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(ft)	(m) ]	·	
		· · · · · · · · · · · · · · · · · · ·	
41.0	12.51 ]	till	· ·
72.0	21.96	sandstone {medium}, gray, medium soft	[
73.0	22.27 -	, white, soft	- bentinite
149.0	45.45	sandstone (medium), gray, medium soft	l
165.0	50.33	mudstone, dark gray, soft	carby
173.0	52.77 -	sandstone (fine), dark gray, medium soft	-
176.0	53.68	COAL (clean), black, soft	carby mudstone and siltstone layers
183.0	55.82	mudstone, dark gray, soft	l l
194.0	59.17 -	mudstone, gray, soft	- soft sandstone layers
205.0	62.53 ·	sandstone (fine), light gray, soft	I
273.0	83.27	sandstone (medium), dark gray, medium soft	I
285.0	86.93 -	COAL (clean), black, soft	
291.0	88.76	sandstone (fine), gray, medium soft	siltstone layers
293.0	89.36	COAL (clean), black, soft	E
296.0	90.28 -	sandstone {fine}, dark gray, medium soft	-
298:0	90.89 ]	siltstone, light gray, soft	soft mudstone layers
303.0	92.41	mudstone, gray, soft	coal layers through out
306.0	93.33 -	COAL (clean), black, soft	-
310.0	94.55	sandstone (fine), light gray, medium soft	
313.0	95.47	siltstone, light brown, medium soft	carby mudstone layers
316.0	96.38 -	mudstone, light gray, medium soft	- ·
319.0	97.30	conglomerate, medium soft	red, green, grey, brown
327.0	99.74	siltstone, gray, medium soft	soft mudstone layers
329.0	100.35 -	conglomerate, hard	<ul> <li>light green, blue, white, grey</li> </ul>
350.0	106.75 [	siltstone, brown, medium soft	soft mudstone layers .
355.0	108.28	conglomerate, hard	light red,green,brown
362.0	110.41 -	siltstone, brown, medium soft	-
384.0	117.12	sandstone (medium), light brown, hard	
391.0	119.26	sandstone (coarse), hard	conglomerate-light red,green,white,grey
407.0	124.14 -	siltstone, light brown, hard	•
411.0	125.36	mudstone, light brown, medium soft	l
421.0	128.41	siltstone, light brown, medium soft	1
426.0	129.93 -	sandstone (coarse), gray, hard	- · ·

430.0 131.15 | mudstone, dark gray, medium soft 432.0 131.76 | sandstone (fine), gray, hard 439.0 133.90 - sandstone (coarse), gray, hard 446.0 136.03 | siltstone, dark gray, medium soft 447.0 136.34 | sandstone (fine), dark gray, medium soft 454.0 138.47 - sandstone (coarse), dark gray, hard 462.0 140.91 | sandstone (coarse), medium soft 467.0 142.44 | mudstone, brown, medium soft 474.0 144.57 - mudstone, light gray, medium soft 476.0 145.18 | sandstone (coarse), green, medium soft 491.0 149.76 | conglomerate, medium soft 507.0 154.64 - mudstone, dark red, medium soft

| cong.-light red,green,white,grey
|
|
|
| light re,gr,bl,wh; sasn (c) grey layers

- volcanics; green flakes interbedded

Hole Id: T94R43

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Hole:	T94R43		• Pro	ject:	Montgomery Dri	lling 1994	
Site:			Date	e Fin	ished:	(Month/Day/Year)	
				•			
Torren	s Locati	on:					
lsd	sect	twp	rg	ŵ	Lithology by:	Don	
					Drill Contr:	McAuley Drilling	r
Survey	ed Locat	ion:			Driller:	Don	
N:	0.0	)			Geoph. Comp:	Century Geophysi	.cal
E:	0.0	)					
EL:	0.0	)			Logs:	gamma	sonic
						density	neutron
Casing	: 0.0	)				caliper	electric
Case Ty	/pe:					verticality .	dipmeter
Downho	le Units	3: F(	eet				
						other:	

Comments:

DEPTH (ft)	DEPTH   DESCRIPTION (m)	COMMENTS
		·
25.0	7.63   till	rocks and gravel
105.0	32.03   interbedded siltstone & sandstone (med), dark gray	[
115.0	35.08 - sandy siltstone, light gray	- sandstone (fine)
119.0	36.30   carby	carb shale and coal stringers
155.0	47.28   interbedded siltstone & sandstone (med)	carb shale and coal at 119-124ft.
156.0	47.58 - COAL (dirty)	-
186.0	56.73   mudstone	and siltstone
190.0	57.95   COAL (clean)	[ carby shale and coal
272.0	82.96 - mudstone, brown	- siltstone-some ss stringers
275.0	83.88   COAL (clean)	[ carby shale and some clean coal
284.5	86.77   silty mudstone	[ siltstone and mudstone
293.0	89.36 - COAL (clean), medium soft	- clean coal with mudstone stringers
298.0	90.89   silty mudstone, blue	1
299.0	91.19   COAL (clean)	carb
313.0	95.47 - mudstone	-
320.0	97:60   silty mudstone, blue	slsn and mdsn-coaly; carb sh. stringers

Hole Id: T94R44

Hole:	T94R44		Proj	ect:	Montgomer	y Dril	lling 1994	
Site:			Date	e Fin	ished: 09/	20/94	(Month/Day/Year)	
Torren	s Locatio	on:						
lsð	sect	twp	хđ	w	Litholog	y by:	Don	
					Drill C	ontr:	McAuley Drilling	r
Survey	ed Locat:	ion:			Dri	ller:	Don	
N:	0.0				Geoph.	Comp:	Century Geophysi	.cal
E:	0.0	,			<b>b</b>			
EL:	0.0					Logs:	gamma	sonic
	•						density	neutron
Casing	: 0.0		-				caliper	electric
Case T	ype:						verticality	dipmeter
Downho	le Units	: Fe	et					,
							other:	

.

Comments:

DEPTH	DEPTH   DESCRIPTION	COMMENTS
(ft)	(m)	· ·
17.0	5.19   till	I .
66.0	20.13   sandstone (fine), dark gray, medium soft	I
68.0	20.74 - mudstone, dark gray, medium soft.	-
96.0	29.28   siltstone, dark gray, medium soft	· · ·
167.0	50.94   sandstone (fine), dark gray, medium soft	45-47m mudstone layers
197.0	60.09 - siltstone, dark gray, soft	- · ,
205.0	62.53   mudstone, dark gray, soft	I
206.0	62.83   sandstone (medium), gray, medium soft	1
208.0	63.44 – siltstone, dark gray, soft	<del>-</del> .
215.0	65.58   COAL (clean), black, soft	carby mudstone 62.3-63.9m
224.0	68.32   mudstone, dark gray, soft	carby
268.0	81.74 - sandstone (fine), dark gray, medium soft	-
272.0	82.96   sandstone (medium), greenish gray, medium soft	· ·
276.0	84.18   sandstone (fine), gray, medium soft	1
303.0	92.41 - sandstone (medium), gray, hard	-
323.0	98.52   sandstone (coarse), gray, hard	1
333.0	101.57   sandstone (medium), dark gray, hard	1
447.0	136.34 - sandstone (fine), light gray, hard	- 106.6m ca + pyrite;115-117m calcite fract
490.0	149.45   sandstone (medium), gray, medium soft	1

# Downhole Cuttings Description Program Ver 1.00

Hole Id: T94R45

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Hole:	T94R45	5 Project: Montgomery Drilling 1994						
Site:			Date	Fini	shed: 09/22	/94	(Month/Day/Year)	
Torrens	Locatio	on:						
lsd	sect	twp	rg	w	Lithology	by: I	Don	
					Drill Con	tr: 1	AcAuley Drilling	
Survey	ed Locat:	ion:			Drill	er: ļ	Don	
N:	0.0				Geoph. Co	mp: (	Century Geophysic	cal
E:	0.0					•		
EL:	0.0				Lo	gs:	gamma	sonic
							density	neutron
Casing	. 0.0				•		caliper	electric
Case Ty	/pe:						verticality	dipmeter
Downho	le Units	: Fee	t					
							other:	

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Comments:

DEPTH (ft)	DEPTH   (m)	DESCRIPTION	COMMENTS
52.0	15.86	till	
85.0	25.93	sandstone (coarse), gray, medium soft	1
213.0	64.97 -	sandstone (medium), dark gray, medium soft	-
253.0	77.16	sandstone (coarse), greenish gray, medium soft	l
271.0	82.66	sandstone (medium), gray, medium soft	carby shale 80.7m
283.0	86.32 -	sandstone (coarse), gray, soft	- soft white and sandstone layers
289.0	88.15	sandstone (fine), gray, soft	82.9m coal layers
297.0	90.58	sandstone (coarse), greenish gray, medium soft .	·
403.0	122.92 -	sandstone (medium), gray, medium soft	-
418.0	127.49	COAL (clean), black, soft	siltstone carby layers
422.0	128.71	siltstone, dark brown, soft	carby layers, 126.2 pyrite
452.0	137.86 -	mudstone, dark gray, soft	- coal layers
454.0	138.47	sandstone (medium), gray, medium soft	sandstone (fine) interbedded
455.0	138.78	sandstone (coarse), gray, medium soft	1
460.0	140.30 -	conglomerate, medium soft	- red,green,blue,white,grey; coarse sasn
463.0	141.22	mudstone, dark gray, soft	carvy
464.0	141.52	COAL (clean), black, soft	1
467.0	142.44 -	sandstone (medium), gray, medium soft	-
487.0	148.54	siltstone, gray, medium soft	carby; coal layers
492.0	150.06	mudstone, light gray, medium soft	[
501.0	152.81 -	sandstone (fine), dark gray, medium soft	- sandstone (c) interbedded
509.0	155.25	sandstone (fine), light gray, medium soft	i
527.0	160.74	sandstone (coarse), gray, hard	I

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# Downhole Cuttings Description Program Ver 1.00

Hole Id: T94R47

E

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		·	•	
Hole:	T94R47			Project: Montgomery Drilling 1994
Site:				Date Finished: 09/25/94 (Month/Day/Year)
				•

Torrens	s Locati	on:						
lsd	sect	twp	rg	w	Lithology h	oy: Don		
					Drill Cont	r: McAuley	Drilling	
Surveye	ed Locat	ion:			Drille	er: Don		
N:	0.0	I			Geoph. Con	mp: Century	Geophysic	al
. E:	0.0	1				•		
EL:	0.0	I			Log	ys: gamma	:	sonic
						densi	ty :	neutron
Casing	: 0.0	ł				calipe	er	electric
Case Ty	/pe:				•	vertic	cality (	dipmeter
Downhol	le Units	: F	eet					

Comments:

(ft)

-

DEPTH DEPTH | DESCRIPTION | COMMENTS (m) ļ \_\_\_\_\_ \_\_\_\_ I

other:

38.0 11.59 | till 80.0 24.40 | sand, brown 84.0 25.62 - gravel 144.0 43.92 | mudstone, dark red, medium soft

Hole: Site:	T94R48		Proj Date	ject: Fin	Montgomery ished: 09/25	Dri] 5/95	lling 1994 (Month/Day/Year)	
Torren	s Locati	on:						
lsd	sect	twp	rg	w	Lithology	by:	Don	-
			•		Drill Con	itr:	McAuley Drilling	ſ
Survey	ed Locat	ion:			Drill	ler:	Don	
N:	0.0				Geoph. Co	: qm	Century Geophysi	.cal
E:	0.0						. •	
EL:	0.0				Lo	gs:	gamma	sonic
							density	neutron
Casing	: 0.0					-	caliper	electric
Case T	ype:						verticality	dipmeter
Downho	le Units	: Fe	eet					
							other:	

,

Comments:

DEPTH	DEPTH   DESCRIPTION	· COMMENTS
41.0	12.51   till	
52.0	15.86   gravel	· ·
75.0	22.88 - mudstone, red, medium soft	- ?vol
80.0	24.40   conglomerate, medium soft	light red, yellow, green, blue, violet, white
90.0	27.45   mudstone, dark red, medium soft	volcanics
91.0	27.76 - sandstone (coarse), light gray, hard	• _
95.0	28.98   conglomerate, hard	1
96.0	29.28   sandstone (medium), light gray, medium soft	•
100.0	30.50 - sandstone (coarse), light gray, medium soft	- conglomerate
119.0	36.30   conglomerate, medium soft	light red,green,blue,white,grey
132.0	40.26   conglomerate, hard	ye,gr,gy,br,bk; fracture 38.5m
133.0	40.57 - sandstone (fine), dark gray, medium soft	· -
158.0	48.19   conglomerate, medium soft	re,gr,gy,br,bk
231.0	70.46   conglomerate, medium soft	<pre>dark re,vi,wh,gy; volcanic</pre>
264.0	80.52 - siltstone, dark red, medium soft	-

. .

Hole:	T94R49	Project: Montgomery Drilling 1994
Site:		Date Finished: 09/25/94 (Month/Day/Year)

Torren	s Locat:	ion:						•	
lsd	sect	twp	rg	w	Lithology	y by:	Don		
					Drill Co	ontr:	McAuley	Drillín	g
Survey	ed Locai	tion:			Dri:	ller:	Don	•	
N:	0.	0			Geoph. (	Comp:	Century	Geophys	ical
E:	0.	0							
EL;	0.	0			1	Logs:	gamma		sonic
							densi	Ľу	neutron
Casing	: 0.4	D					calip	er	electric
Case T	уре:						verti	cality	dipmeter
Downho	le Unita	s: Fe	et						
							other	•	

Comments:

DEPTH DEPTH | DESCRIPTION (ft) (m) \_\_\_\_\_ 41.0 12.51 | till 51.0 15.56 | mudstone, dark violet, soft 61.0 18.61 - mudstone, dark red, medium soft 66.0 20.13 | mudstone, dark violet, soft 72.0 21.96 | mudstone, dark red, soft 79.0 24.10 - , light violet, soft 167.0 50.94 | , dark red, soft 176.0 53.68 | , dark brown, soft 226.0 68.93 - , dark violet, medium soft 237.0 72.29 | , dark violet, medium soft 242.0 73.81 | , medium soft 244.0 74.42 - , white, medium soft

# COMMENTS

# [

L

volcanic

- volcanic

volcanic

| volcanic

- volcanic; very soft

| volcanic

| volcanic

- volcanic; calcite fractures

| volcanic; white interbed

| volcanic; pink

- violet interbed .

Hole:	T94R50 Project: Montgomery Drilling 1994							
Site:	•		Date	e Fin	ished: 09/	26/95	(Month/Day/Year	c)
Torrens	B Locati	on:		,				
lsd	sect	twp	rg	w	Litholog	y by:	Don	
					Drill Co	ontr:	McAuley Drillin	ıg
Surveye	ed Locat	ion:			Dri	ller:	Don .	
N:	0.0				Geoph.	Comp:	Century Geophys	sical
E:	0.0							
EL:	0.0				1	Logs:	gamma	sonic
							density	neutron
Casing	. 0.0						caliper	electric
Case Ty	/pe:						verticality	dipmeter
Downho]	le Units	: F	'eet					

other:

Comments:

| COMMENTS DEPTH DEPTH | DESCRIPTION (ft) (m) | 1 3.0 0.92 | till 1 58.0 17.69 | conglomerate, medium soft | light re,gr,bl,wh,gy,br,bk  $_{C}$  - volcanic 60.0 18.30 - , dark red, soft 70.0 21.35 ] conglomerate, medium soft re, ye, gr, wh, bk 74.0 22.57 | , light green, soft { dark red interbedded; volcanic 83.0 25.32 - , dark brown, soft - volcanic 87.0 26.54 | , greenish gray, soft | colcanic 97.0 29.59 | , dark red, medium soft | volcanic 100.0 30.50 - sandstone (coarse), light gray, medium soft - about 3gpm water 101.0 30.81 | sandstone (coarse), light red, medium soft L 105.0 32.03 | sandstone (coarse), light gray, medium soft 108.0 32.94 - sandstone (medium), light gray, medium soft 144.0 43.92 | conglomerate, light gray, medium soft 187.0 57.04 | conglomerate, medium soft | re,gr,gy,br,bk; sandstone (c) - 56m fracture, 50gpm water 210.0 64.05 - sandstone (coarse), hard 221.0 67.41 | , dark red, medium soft | volcanic

Hole:	T94R51	•	Project: Montgomery Drilling 1994
Site:	42		Date Finished: 09/29/94 (Month/Day/Year)

Torren	s Locat	ion:						
lsd	sect	twp	rg	w	Lithology H	by: Don	•	
					Drill Cont	tr: McAuley	Drilling	I
Survey	ed Loca	tion:			Drille	er: Don		
N:	0.	0			Geoph. Cor	mp: Century	Geophysi	cal
Е:	0.	0				•		
EL:	0.	0			Log	gs: gamma		sonic
		•				densi	tγ	neutron
Casing	: 0.	0				calip	er	electric
Case T	уре:				•	verti	cality	dipmeter
Downho	le Unit:	s: Fe	et					

other:

#### Comments:

· · ·

DEPTH DEPTH | DESCRIPTION | COMMENTS (ft) (m) [ 1 \_\_\_\_\_\_ . 35.0 10.68 [ till | clay and rocks 59.0 18.00 | , green, medium soft | volcanics below O/B. - water 29.8m 10gpm; volcanic 157.0 47.89 - , dark red, medium soft 197.0 60.09 | , dark brown, hard | reddish brown; volcanic 211.0 64.36 | , hard | dark re,gr,br; volcanic; green specks 241.0 73.51 - , dark brown, hard - volcanic

Page 1

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Hole:	T94R52 Project: Montgomery Drilling 1994								
Site:	46		Dat	e Fin	ished: C	9/30/94	(Month/	Day/Year	}
Torren	s Locat:	ion:	-	*					
lsd	sect	twp	rg	w	Lithol	ogy by:	Don		
					Drill	Contr:	McAuley	Drillin	g
Survey	ed Local	tion:			I	riller:	Don		
N:	0.0	D			Geoph	. Comp:	Century	Geophys	ical
· E: .	0.0	0							
EL:	0.0	D				Logis:	gamma		sonic
							densi	ty	neutron
Casing	. 0.0	D					calip	er	electric
Case T	ype:						verti	cality	dipmeter
Downho	le Unit:	3: F6	et						
							other	:	

Comments:

DEPTH (ft)	DEPTH   DESCRIPTION (m)	COMMENTS 
41.0	12.51   till	I .
90.0	27.45   conglomerate, hard	re,gr,vi,wh,gy,br,bk
93.0	28.37 - sandstone (coarse), gray, hard	-
94.0	28.67   sandstone (coarse), dark gray, hard	I
109.0	33.25   conglomerate, hard	re,vi,wh,gy
113.0	34.47 - sandstone (coarse), hard	- iron colour
118.0	35.99   conglomerate, hard	re,ye,gr,vi,wh,gy,bk
120.0	36.60   sandstone (coarse), dark gray, medium soft	, I
123.0	37.52 - sandstone {coarse}, light gray, soft	-
125.0	38.13   conglomerate, hard	re,vi,wh
129.0	39.35   sandstone (coarse), light gray, medium soft	1
136.0	41.48 - conglomerate, hard	- re,vi,wh,gy,bk
138.0	42.09   sandstone (coarse), light gray, medium soft	I
140.0	42.70   conglomerate	re,vi,wh,gy
152.0	46.36 - sandstone (medium), dark gray, medium soft	-
157.0	47.89   sandstone (coarse), light gray, medium soft	
160.0	48.80   siltstone, white, medium soft .	volcanic
183.0	55.82 - siltstone, red, medium soft	- volcanic
190.0	57.95   siltstone, violet, medium soft	volcanic; 54.9m fracture, 10gpm water
195.0	59.48   siltstone, light red, medium soft	volcanic; 56m weathered and fractured
207.0	63.14 - siltstone, medium soft	- iron coloured on white siltstone
223.0	68.02   siltstone, violet, medium soft	volcanic; calcite fractures
267.0	81.44   siltstone, dark violet, medium soft	1

Hole:	T94R53		Pro	Project: Montgomery Drilling 1994						
Site:			Date	e Fin	ished:	(Month/Day/Year)				
Torren	s Locati	.on:								
lsd	sect	twp	rg	w	Lithology by:	Don				
				•	Drill Contr:	McAuley Drillin	g			
Survey	ed Locat	ion:			Driller:	Don				
N :	0.0	1			Geoph. Comp:	Century Geophys	ical			
E:	0.0	)								
EL:	0.0	)			Logs:	gamma	sonic			
						density	neutron			
Casing	: 0.0	)				caliper	electric			
Case T	уре:					verticality	dipmeter	ť		
Downhole Units: Feet										
						other:				
Comment	ts:					,				

DEPTH DEPTH | DESCRIPTION ] COMMENTS (ft) (m) | 1 ----------\_\_\_\_\_ 20.0 6.10 | gravel pea gravel and boulders 160.0 48.80 | till, light gray, soft { with rocks- 2' volcanic; boulders at 105' 170.0 51.85 - gravel - sand and pea gravel 370.0 112.85 | till | very dense hard till and many boulders 445.0 135.73 | till, gray, medium soft i silty-with coal chips and pebbles 475.0 144.88 --- volcanocs -red and green

Hole:	T94R54		Proj	lling 1994			
Site:	36	Date	e Fin	ished: 09/30/94	(Month/Day/Year)		
Torren	s Locati	on:			•		
lsd	sect	twp	rg	w	Lithology by:	Don	
•	•				Drill Contr:	McAuley Drilling	r
Surveyed Location:					Driller:	Don	
N:	0.0				Geoph. Comp:	Century Geophysi	.cal
E:	0.0						
EL:	0.0				Logs:	gamma	sonic
						density	neutron
Casing	: 0.0					caliper	electric
Case T	ype:					verticality	dipmeter

Downhole Units: Feet

other:

Comments:

| COMMENTS DEPTH DEPTH | DESCRIPTION (ft) (m) | 1 ------23.0 7.02 | till 1 1 52.0 15.86 | gravel 79.0 24.10 - till -81.0 24.71 | , dark red, medium soft | vol? 152.0 46.36 | clay and rocks 240.0 73.20 - gravel -| light brown layers 71.9-83.4m; volcanic 317.0 96.69 | , dark violet, medium soft

# Downhole Cuttings Description Program Ver 1.00

Hole Id: T94R55

Page 1

					•			
					•			
Hole:	T94R55		Pro	ject:	Montgomery Dr:	illing 19	94	
Site:			Dat	e Fin	ished:	(Month/)	Day/Year)	
Torren	s Locati	on:						
lsð	sect	twp	rg	w	Lithology by:	: Don		
					. Drill Contra	McAuley	Drilling	
Survey	ed Locat	ion:			Driller	Don		
N:	0.0	I.			Geoph. Comp	Century	Geophysi	cal
E:	0.0	ı.				•		
EL:	0.0	I.			Logs	: gamma		sonic
						densi	ty	neutron

Casing:	0.0		caliper	electric
Case Type:		•	verticality	dipmeter
Downhole Un	its: Feet			
			other:	

Comments:

.

 DEPTH
 DEPTH | DESCRIPTION
 I COMMENTS

 (ft)
 (m)
 I

 178.0
 54.29 | till
 I

 221.0
 67.41 | gravel
 I

 264.0
 80.52 - , dark brown, hard
 - volcanics below gravels to T.D.
| ≓ole;  | T94R56    | ۲     | Pro    | ject: | Montgome  | ry Dri | lling 1994      |          |          |   |   |
|--------|-----------|-------|--------|-------|-----------|--------|-----------------|----------|----------|---|---|
| site:  |           |       | Dat    | e Fin | ished: 10 | /03/94 | (Month/Day/Year | }        |          |   |   |
|        |           |       |        |       |           |        | ·               |          |          |   |   |
| Torrei | is hocaci | .011: |        |       |           |        |                 |          |          |   |   |
| ⊥sd    | sect      | twp   | rg     | w     | Litholo   | dà pà: | Don             |          |          |   |   |
|        |           |       |        |       | Drill     | Contr: | McAuley Drillin | g        |          | - | • |
| survey | yed Locat | ion:  |        |       | Dr        | iller: | Don             |          |          |   |   |
| N      | 0.0       | )     |        |       | Geoph.    | Comp:  | Century Geophys | ical     |          |   |   |
| E:     | 0.0       | )     |        |       |           |        | -               |          |          |   |   |
| EL:    | 0.0       | )     |        |       |           | Logs:  | gamma           | sonic    | *        |   |   |
|        |           |       |        |       |           |        | density         | neutron  |          |   |   |
| Casing | y: 0.0    |       |        |       |           |        | caliper         | electric |          |   |   |
| Case 7 | Cype:     | ,     |        |       |           |        | verticality     | dipmeter |          |   |   |
| Jownho | ole Units | : Fe  | et     |       |           |        |                 |          |          |   |   |
|        |           |       |        |       |           |        | other:          |          |          |   |   |
| commer | nts:      |       |        |       |           | •      |                 |          | •        |   |   |
|        |           |       |        |       | •         |        |                 |          |          |   |   |
|        | ,         |       |        |       |           | Ň      |                 |          |          |   |   |
|        |           |       |        |       |           |        |                 |          |          |   |   |
|        |           |       |        |       |           |        |                 |          |          |   |   |
| DEPTH  | I DEPTH   | DESC  | RIPTIO | N     |           |        | -               |          | COMMENTS |   |   |
| (ft)   | (m)       | 1     |        |       |           |        |                 |          | I        |   |   |
|        |           |       |        |       |           |        |                 |          | <br>     | · |   |

517.0 157.69 | gravel | uncons. sa and gr to 155m

Hole: T93R-01 Project: TELKWA 1993 Site: 214 Date Finished: 09/06/93 (Month/Day/Year) Torrens Location: lsđ sect twp хg w Lithology by: Drill Contr: Cora Lynn Drilling . Surveyed Location: Driller: Rick Geoph. Comp: 0.0 N: E: 0.0 EL: 0.0 Logs: gamma sonic neutron density Casing: 0.0 caliper electric Case Type: verticality dipmeter Downhole Units: Feet other: Comments:

-----

DEPTH DEPTH | DESCRIPTION COMMENTS {ft) (m) 6.0 1.83 | till 6.71 | silty mudstone, light gray 22.0 1 30.0 9.15 - sandy siltstone 35.0 10.68 | silty mudstone, gray S.S. stringer 67.0 20.44 | sandy siltstone, gray 70.0 21.35 - COAL (clean) 91.0 27.76 | mudstone, gray 99.0 30.20 COAL (clean), light gray 140.0 42.70 - sandy siltstone

• '

Hole: T93R-02 Project: TELKWA 1993								
Site:	108		Dat	e Fin	ished: 09	/02/93	(Month/Day/Year	•)
Torren	s Locat	ion:						
lsð	sect	twp	rg	w	Litholo	gy by:	Rick	
					Drill	Contr:	Cora Lynn Drill	ing
Survey	ed Loca	tion:			Dr	iller:	Rick	
N:	0.	0		*	Geoph.	Comp:	BPB Geophysical	
E:	0.	0						
EL:	0.	0				Logs:	gamma	sonic
							density	neutron
Casing	r: 0.1	0					caliper	· electric
Case T	ype:						verticality	dipmeter
Downho	le Unit:	s: Fe	et					
							other:	
Commen	its:							

DEPTH	DEPTH   DESCRIPTION	COMMENTS
(ft)	(m)	I
		·····
7.0	2.14   carbonaeous mudstone, dark brown	.
26.0	7.93   COAL (dirty)	33
33.0	10.07 - silty mudstone, dark gray, medium soft	-
44.0	13.42   sandstone (fine), light gray, hard	1
50.0	15.25   sandstone (coarse), light gray, medium soft	1
79.0	24.10 - mudstone, black, soft	- Coal stringers
89.0	27.15   silty mudstone, dark gray, soft	A lot of coal stringers
103.0	31.42   silty mudstone, dark gray	1
114.0	34.77 - sandstone (fine), light gray, hard	- `
128.0	39.04   silty mudstone, light gray, medium soft	1
175.0	53.38   sandstone (coarse), light gray, medium soft	H2O 10 GPM
190.0	57.95 – silty mudstone, dark gray, soft .	-
207.0	63.14   mudstone, light gray, hard.	-
225.0	68.63   sandstone (coarse), light gray, soft	H20
247.0	75.33 - mudstone, black, soft	
255.0	77.77   COAL (dirty)	
264.0	80.52   mudstone, dark gray	1

#### Downhole Cuttings Description Program Ver 1.00

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Project: TELKWA 1993

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Date Finished: 09/05/93 (Month/Day/Year)

Lithology by: T. Mullen

Drill Contr: McAuley Drilling

Hole: T93R-03

Torrens Location:

sect

two

299.0 91.19 | , medium soft

330.0 100.65 | sandy siltstone, light gray, medium soft

Site: 110

lsd

Hole Id: T93R-03

| Volanic - multi colored

L

Surveyed Location: ` Driller: T. Mullen N: 0.0 Geoph. Comp: BPB Geophysical E: 0.0 EL: 0.0 Logs: gamma sonic density neutron caliper electric Casing: 0.0 Case Type: verticality dipmeter Downhole Units: Feet other: Comments: DEPTH DEPTH | DESCRIPTION [ COMMENTS (ft) (m) I 4.42 | till, dark gray [ Wet 14.5 22.0 6.71 | mudstone, light gray, medium soft Fract. @ 18' H2O · 192.0 58.56 - sandy siltstone, gray, medium soft - Thin mdsn bands @ 125'carbish-coal 216.5 66.03 | mudstone, light gray, soft 1 | Mudstn 234.5 71.52 | COAL (dirty), dark gray, soft - Few shale stringers 249.5 76.10 - COAL (clean), black, medium soft 251.0 76.55 | sandy siltstone, gray, medium soft I 253.0 77.16 | COAL (clean), medium soft | clean/dirty coal. Trace bent. 254.0 77.47 - mudstone, brown, medium soft 259.5 79.15 | COAL (clean), soft Shale and coal 271.0 82.66 [ mudstone, light gray ļ - Clean/dirty coal; mudstn; shale and coal 273.0 83.27 - , medium soft 282.0 86.01 | sandy siltstone, gray, medium soft ł ] Clean/dirty coal; mudstn; shale and coal 289.0 88.15 [ , medium soft 294.0 89.67 - sandy siltstone, light gray, medium soft

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Page 1

Project: TELKWA 1993

Site:	103		Dat	e Fir	ished:	09/0:	3/93	(Month/Day/Year	)		
Torren	s Locati	on:				`					
lsd	sect	twp	rg	W	Litho Dril	ology	by:	Rick Cora Lynn Drill	ina	•	
Survey	ed Locat	ion:				Dril	ler:	Rick	3		
№:	0.0				Geor	ph. Co	omp:	BPB Geophysical		•	
E:	0.0									•	
EL:	0.0			-		Ŀ	ogs:	gamma density	sonic neutron		
Casing	: 0.0							caliper	electric		
Case T	уре:				÷			verticality	dipmeter		
Downho	le Units	: Fe	eet								
								other:			

Comments:

Hole: N93R-04

DEPTH DEPTH | DESCRIPTION COMMENTS (ft) {m} -----------7.0 2.14 | mudstone, light gray ł 47.0 14.34 | sandstone (coarse), dark gray, medium soft | H2O - 5 GPM 64.0 19.52 - mudstone, dark gray, medium soft ÷ 76.0 23.18 | sandstone (coarse), light gray, soft 1 83.0 25.32 | mudstone, black, soft 1 98.0 29.89 - sandstone (coarse), light gray, soft - Somme diff. colors appearing; H20 10GPM 110.0 33.55 | mudstone, dark gray, soft 120.0 36.60 | carbonaeous mudstone, soft | Coal stringers . 190.0 57.95 - mudstone, black, soft 199.0 60.70 | sandstone (coarse), light gray, soft H2O 25 GPM 226.0 68.93 | mudstone, dark gray, soft 237.0 72.29 -- Conglomerate? (volcanic) 246.0 75.03 [ mudstone, dark gray, soft 1 303.0 92.41 | Conglomerate (volcanic)

\_\_\_\_\_

Project: TELKWA 1993 Hole: N93R-05 Site: 113 Date Finished: 09/03/93 (Month/Day/Year) Torrens Location: sect lsd twp rg w Lithology by: Rick Drill Contr: Cora Lynn Drilling Surveyed Location: Driller: Rick 0.0 Geoph. Comp: BPB Geophysical N: E: 0.0 . EL: 0.0 Logs: x gamma x sonic x density x, neutron Casing: 0.0 x caliper x electric x verticality x dipmeter Case Type: Downhole Units: Feet other:

Comments:

(ft)

| COMMENTS DEPTH DEPTH | DESCRIPTION (m) [ 1 \_\_\_\_\_ | Clay/sand/gravel 12.0 3.66 1 37.0 11.29 | mudstone, black, medium soft

57.0	11.25   Mudscone, Black, Medium Bole	1 -
62.0	18.91 - silty mudstone, dark gray, medium soft	- ·
80.0	24.40   mudstone, black, hard	1
84.0	25.62   sandstone (fine), light gray, hard	H2O - 5 GPM
110.0	33.55 - mudstone, black, medium soft	-
127.0	38.74   mudstone, light gray, medium soft	1
130.0	39.65   COAL (dirty)	1
135.0	41.18 - mudstone, black, medium soft	- ·
137.0	41.79   COAL (dirty)	1
143.0	43.62   mudstone, black, medium soft	1
153.0	46.67 - carbonaeous mudstone, soft	- Coal stringers
160.0	48.80   mudstone, black, medium soft	l · · ·
180.0	54.90   mudstone, dark gray, hard	Ι.
193.0	58.87 - mudstone, black, soft	-
220.0	67.10   COAL (clean) .	1
224.0	68.32   mudstone, dark gray, medium soft	l
233.0	71.07 - sandstone (medium), light gray, hard	
247.0	75.33   mudstone, light gray, soft	I
260.0	79.30   mudstone, dark gray, hard	l
282.0	86.01 - mudstone, dark gray, medium soft	-
303.0	92.41   silty mudstone, light gray, hard	l

к

Hole: T93R-06Project: TELKWA 1993Site: 112Date Finished: 09/05/93 (Month/Day/Year)

Torrens	s Locati	on:							
lsd	sect	twp	rg	W	Litholog	gy by:	Rick		
					Drill (	Contr:	Cora Lynn Dril	ling	
Surveye	ed Locat	ion:			Dr:	iller:	Rick		
N:	0.0				Geoph.	Comp:	BPB Geophysica	1	
E:	0.0								
EL:	0.0					Logs:	x gamma	x sonic	
							x density	x neutron	
Casing	. 0.0						x caliper	x electric	
Case Type:							x verticality	x dipmeter	
Downhol	le Units	: Fe	et						

other:

Comments:

. . .

DEPTH	DEPTH   DESCRIPTION	COMMENTS
(ft)	(m)   ·	I
4.0	1.22	[ Clay/sand/gravel
7.0	2.14 COAL (clean)	[ 3'
16.0	4.88 - mudstone, light gray	
18.0	5.49   carby, dark brown, sóft	
33.0	10.07   mudstone, dark gray, soft	
36.0	10.98 - COAL (dirty)	- 5'
42,0	12.81   mudstone, black, soft .	<
54.0	16.47   mudstone, light gray, soft	
69.0	21.05 - mudstone, black, hard	-
97.0	29.59   COAL (dirty)	28'
121.0	36.91   mudstone, dark gray, hard	· ·
123.0	37.52 - COAL (dirty)	- 2'
158.0	48.19   mudstone, dark gray, medium soft	
165.0	50.33   mudstone, light gray, hard	l
168.0	51.24 - silty mudstone, black, medium soft	- -
183.0	55.82   sandstone (fine), light gray, hard	Trace H2O

.

Downhole Cuttings Description Program Ver 1.00

Hole Id: T93R-07

Page 1

Hole: T93R-07Project: TELKWA 1993Site: 114Date Finished: 09/05/93 (Month/Day/Year)

Torren	s Locat	ion:			,		
lsð	sect	twp	rg	w	Lithology by	: Rick	
					Drill Contr	: Cora Lynn Dril	lling
Survey	ed Loca	tion:			Driller	: Rick	
N:	0.	0			Geoph. Comp	: BPB Geophysica	ıl .
E:	0.	0					
EL:	0.	0			Logs	: x gamma	x sonic
						x density	x neutron
Casing	: 0.	0				x caliper	x electric
Case T	ype:					x verticality	x dipmeter
Downho.	le Unit:	s: Fe	et				•

other:

Comments:

DEPTH DEPTH | DESCRIPTION | COMMENTS (ft) (m) 1 ------\_\_\_\_ | Clay/sand/gravel/till 32.0 9.76 74.0 22.57 | till | Very colorful 107.0 32.64 - mudstone, dark gray, soft 118.0 35.99 | silty mudstone, light gray, medium soft 145.0 44.23 | mudstone, gray, hard 167.0 50.94 - mudstone, black, hard 205.0 62.53 | mudstone, dark gray, medium soft 213.0 64.97 | mudstone, black, hard 216.0 65.88 - silty mudstone, gray, hard 221.0 67.41 | mudstone, black, hard 267.0 81.44 | mudstone, dark gray, soft 277.0 84.49 - mudstone, black, hard 283.0 86.32 | carbonaeous mudstone, gray, hard Possibly coal stringers 303.0 92.41 | silty mudstone, medium soft 304.0 92.72 - carbonaeous mudstone, dark brown 317.0 96.69 | silty mudstone, dark gray, hard 326.0 99.43 | mudstone, black, hard 347.0 105.84 - COAL (dirty) 21' 350.0 106.75 | mudstone, black, medium soft 362.0 110.41 | mudstone, dark gray, medium soft 371.0 113.16 - carby . . 377.0 114.99 | COAL (dirty) carby 409.0 124.75 | mudstone, dark gray, hard 411.0 125.36 - sandstone (medium), light gray, hard 420.0 128.10 . mudstone, black, medium soft

Hole Id: T93R-08

 Hole:
 T93R-08
 Project:
 TELKWA 1993

 Site:
 Date Finished:
 09/05/93 (Month/Day/Year)

Torren	s Locat	ion:						
lsd	sect	twp	rg	w	Litholog Drill (	gy by: Contr:	McAuely Drilling	
Survey	ed Loca	tion:			Dri	iller:		
N:	0.	0			Geoph.	Comp:	BPB	
E:	0.	0						
EL:	0.	0				Logs:	gamma density	sonic neutron
Casing	: 0.	0					caliper	electric
Case T	ype:						verticality	dipmeter
Downho	le Unit:	s: Fe	et		•			
							other:	

Comments:

| COMMENTS DEPTH DEPTH | DESCRIPTION (ft) (m) E 1 ------\_\_\_\_ 1.83 | till, dark gray, soft 6.0 10.0 3.05 | mudstone, dark gray, medium soft 1 15.0 4.58 - COAL (dirty), black, medium soft - Clean/dirty coal 29.0 8.85 | sandy siltstone, gray, medium soft Т 35.0 10.68 [ COAL (clean), black, medium soft 37.0 11.29 - sandy siltstone, dark gray, medium soft 41.0 12.51 | COAL (dirty), black, medium soft Shaley 46.0 14.03 | sandy siltstone, dark gray, medium soft I 50.0 15.25 - COAL (dirty), black, medium soft - Shaley 53.0 16.17 | sandy siltstone, dark gray, medium soft . | 56.0 17.08 | COAL (dirty), black, medium soft Shaley coal 86.0 - 26.23 - sandy siltstone, dark gray, medium soft 89.0 27.15 | COAL (dirty), black, medium soft | Shaley coal 121.0 36.91 | sandstone (fine), light gray, medium soft Few coarse ss bands 124.0 37.82 - COAL (dirty), black, medium soft - Shale and coal 140:0 42.70 | sandstone (fine), light gray, medium soft 1

Downhole Cuttings Description Program Ver 1.00 -

Hole Id: T93R-09

Hole: T93R-09 Project: TELKWA 1993 Site: 115 Date Finished: 09/05/93 (Month/Day/Year) Torrens Location: 1sd sect twp rg w Lithology by: Rick Drill Contr: Cora Lynn Drilling Driller: Rick Surveyed Location: . Geoph. Comp: BPB N: 0.0 0.0 Е: EL: 0.0 Logs: gamma sonic . . density neutron Casing: 0.0 caliper electric verticality dipmeter Case Type:

Downhole Units: Feet

other:

Comments:

DEPTH	DEPTH   DESCRIPTION ,	COMMENTS
(ft)	(m)	
4.0	1.22	Clay/sand/gravel
14.0	4.27   mudstone, dark brown, soft	
23.0	7.02 - sandstone (fine), light gray	- H2O trace
44.0	13.42   mudstone, light gray	
51.0	15.56   mudstone, light gray, soft	Very soft
69.0	21.05 - silty mudstone, black, medium soft	
78.0	23.79   mudstone, black, hard	
87.0	26.54   silty mudstone, dark gray, medium soft	
116.0	35.38 - mudstone, black, medium soft	
121.0	36.91   mudstone, light gray, soft	
139.0	42.40   mudstone, black, medium soft	
165.0	50.33 - silty mudstone, light gray, hard	
196.0	59.78   mudstone, black, hard	- ·
199.0	60.70   mudstone, dark gray, hard	
208.0	63.44 - silty mudstone, dark gray, medium soft	-
222:0	67.71   sandstone (fine), light gray, hard	
235.0	71.68   sandy siltstone, light gray, medium soft	1
249.0	75.94 - mudstone, black	
255.0	77.77   sandstone (fine), light gray, hard	,
273.0	83.27   silt, gray, soft	
291.0	88.76 - mudstone, black, medium soft	-
302.0	92.11   silty mudstone, dark gray, medium soft	
309.0	94.25 mudstone, gray, hard	1
349.0	106.45 - sandstone (fine), hard	-
366.0	111.63   silt, light gray, medium soft	I
386.0	117.73   mudstone, light gray, soft	1
415.0	126.58 - mudstone, light gray, medium soft	– Calcite deposit © 397
418.0	127.49   COAL (dirty), soft	Clean/dirty coal
452.0	137.86   mudstone, black, soft	· ·
460.0	140.30 - sandstone (fine), light gray, soft	-
464.0	141.52   silty mudstone, dark gray, medium soft	
483.0	147.32   sandstone (fine), light gray, hard	1
486.0	148.23 - mudstone, dark gray, medium soft	-

Page 1

517.0 157.69 | sandstone (fine), light gray, hard 540.0 164.70 | mudstone, black, medium soft 562.0 171.41 - sandstone (medium), dark gray

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### Downhole Cuttings Description Program Ver 1.00

Hole Id: T93R-10

Project: TELKWA 1993 Hole: T93R-10 Site: 115 Date Finished: 09/06/93 (Month/Day/Year) Torrens Location: lsd sect twp rg w Lithology by: Drill Contr: McAuley Drilling Driller: Surveyed Location: Geoph. Comp: BPB 0.0 N: E: 0.0 EL: 0.0 Logs: gamma sonïc density neutron caliper Casing: 0.0 electric verticality Case Type: dipmeter Downhole Units: Feet

Comments:

.

other:

| COMMENTS DEPTH DEPTH | DESCRIPTION (ft) (m) 1 ~~~~ | Few cobbles 11.0 3.36 | till, dark brown 62.0 18.91 | Volcanic 84.0 25.62 - sandy siltstone, light gray, medium soft -86.5 26.38 | , black | Clean/dirty coal 93.0 28.37 | sandy siltstone, light gray, medium soft 1 102.5 31.26 - COAL (clean), black, medium soft 107.0 32.64 | mudstone, light gray, medium soft 1 119.0 36.30 | COAL (clean), black, soft T 175.0 53.38 - mudstone, dark brown, medium soft - Shale/siltstone interbedded 200.0 61.00 | Volcanic

Page 1

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Hole: T93	3R-11		Pro	ject:	TELKWA 1993 <sub>.</sub>		
Site:		Dat	e Fin	ished: 09/07/93	8 (Month/Day/Year	}	
Torrens I	Locati	on:	••••				
lsd se	ect	twp	rg	w	Lithology by:	Mullen	
					Drill Contra	McAuley Drillin	a
Surveyed	Locat:	ion:			Driller	Mullen	
N:	0.0				Geoph. Comp:	BPB	
E:	0.0						
EL:	0.0				Logs	gamma	sonic
						density	neutron
Casing:	0.0					caliper	electric
Case Type	2:					<ul> <li>verticality</li> </ul>	dipmeter
Downhole	Units	: Fe	et		-		
						other:	

Comments:

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DEPTH (ft)	DEPTH   DESCRIPTION	COMMENTS 
53.0	16.17   till	Some boulders - gravel bands
56.0	17.08	Carb shale and coal?
70.0	21.35 - sandy siltstone, dark gray, medium soft	-
82.0	25.01   COAL (clean), black, medium soft	I
136.0	41.48   sandy siltstone, dark gray, medium soft	· ·
154.5	47.12 - COAL (clean), black, medium soft	-
157.5	48.04   mudstone, dark gray, medium soft	Carb shale
159.0	48.50   COAL, black, soft	Coal clean/dirty
164.0	50.02 - sandy siltstone, dark gray, medium soft	-
167.0	50.94   COAL, black, medium soft	Coal clean/dirty
169.0	51.55   sandy siltstone, dark gray, medium soft	1
171.0	52.16 - COAL (clean), black, medium soft	-
191.0	58.26   sandy siltstone, dark gray, medium soft	@ 187' 1.0' coal and carb shale
194.0	59.17   COAL, black	Coal clean/dirty
208.0	63.44 - sandy siltstone, dark gray, medium soft	-
210.0	64.05 { COAL, black, soft	Coal clean/dirty
213.0	64.97   sandy siltstone, dark gray, medium soft	· · · ·
215.0	65.58 - COAL, black, soft	- Coal clean/dirty
240.0	73.20   sandy siltstone, dark gray, medium soft	I .

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Hole: T93R-12				Pro	ject:	TELKWA 1993		
Site:			Dat	e Fin	ished: 09/07/93	(Month/Day/Year)		
				•				•
	Torrens	s Locati	on:					
	lsd	sect	twp	rg	w	Lithology by:	Rick '	
						Drill Contr:	Cora Lynn Drill	ing
	Survey	ed Locat	ion:			Driller:	Rick	
	N:	0.0	•			Geoph. Comp:	BPB	•
	E:	0.0	)					
	EL;	0.0	)			Logs:	gamma	sonic
							density	neutron
	Casing	: 0.0	•				caliper	electric
	Case T	ype:					verticality	dipmeter
	Downho	le Units	: Fe	et	-			
							other:	

Comments:

Depth	depth	DESCRIPTION	COMMENTS
(ft)	(m)		1 .
51.0	15.56		Clay/gravel/till
79.0	24.10	mudstone, dark gray, soft	1
96.0	29.28 -	silty mudstone, dark gray, soft	-
107.0	32.64	mudstone, dark gray, soft	l .
118.0	35.99	silty mudstone, light gray, soft	1
165.0	50.33 -	mudstone, black, medium soft	-
195.0	59.48	mudstone, dark gray, soft	1
201.0	61.31	mudstone, gray, medium soft	1
215.0	65.58 -	mudstone, black, hard	-
219.0	66.80	silt, black, hard	1
223.0	68.02	COAL (dirty)	1 .
235.0	71.68 -	carbonaeous mudstone	-
241.0	73.51	mudstone, dark gray, hard .	1 -
245.0	74.72	silty mudstone, light gray	1
250.0	76.25 -	COAL (dirty)	-
255.0	77.77	mudstone, dark gray, medium soft	1 .
264.0	80.52	COAL (dirty)	
294.0	89.67 -	mudstone, dark gray, hard .	
300.0	91.50	sandstone (fine), light gray, hard	I
303.0	92.41	mudstone, black, hard	I
323.0	98.52 -	silty mudstone, black, soft	-
348.0	106.14	COAL (dirty)	1
380.0	115.90	mudstone, brown, soft	1
383.0	116.82 -	carbonaeous mudstone .	-
393.0	119.87	mudstone, black, soft	l .
403.0	122.92		Carb - coal?
407.0	124.14 -	mudstone, black, medium soft	-
423.0	129.02	mudstone, dark gray, soft	

Hole Id: T93R-13

						•				*
Hole: T	93R-13	•	Pro	ject:	TELKWA 1	993				
Site:			Date	e Fin:	ished: 09,	/07/93	(Month/Day/Year	;)		
	•									
Torrens	Locati	on:								•
lsd	sect	twp	rg	W	Litholog	y by:	Rick			
					Drill (	Contr:	Cora Lynn Drill	ing		•
Surveye	d Locat	ion:			Dr:	iller:	Rick			
N:	0.0	I			Geoph.	Comp:	BPB			
E:	0.0	I								· · · ·
EL:	0.0	I				Logs:	gamma	sonic		
							density	neutron		
Casing:	0.0	I					caliper	electric		
Case Ty	pe:				•		verticality	dipmeter		
Downhol	e Units	: Fe	eet							
							other:			
Comment	:s:									
-				,						
							Î			
										· · · · · · · · · · · · · · · · · · ·
DEPTH	DEPTH	DESC	RIPTIO	N						COMMENTS
(ft)	(m)	L					•			l
							··· <i>.</i>			
78.0	23.79	I								Clay/sand/gravel/till
92.0	28.06	muds	stone, o	dark 🤉	gray, soft	:				l de la constante de
120.0	36.60	- silt	y mudsi	tone,	light gra	ay, so:	Et			-
130.0	39.65	[ carl	onaeou	s aud:	stone, so:	Ēt				Coal stringers
178.0	54.29	muds	stone, «	dark g	gray, sofi					l
183.0	55.82	- cark	oonaeou	s mud:	stone, som	Et				- Coal stringers
194.0	59,17	muds	stone							
197.0	60.09	silt	y mudsi	tone,	dark gray	, med:	ium soft			
210.0	64.05	- muds	stone, i	light	gray, so	Et				- Volcanic
213.0	64.97	silt	y mudsi	tone,	soft				•	Volcanic - trace H20
233.0	71.07	silt	y mudsi	tone,	light gra	ay, me	dium soft			
239.0	72.90	- silt	y mudsi	tone,	light gra	ay, so:	Et.			-
257.0	78.39	silt	:, dark	red,	soft					м м
265.0	80.83	silt	y mudsi	tone,	dark gray	,. sofi	E .			I
292.0	89.06	- silt	cy mudsi	tone,	dark red	soft				- -
312.0	95.16	silt	y mudsi	tone,	dark red	mediu	um soft			
422.0	128.71	silt	y mudsi	tone,	dark gree	en, hai	rd .			Some red. Some calcite
462.0	140.91	- , da	ark gree	en, so	oft .					-

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Hole:	T93R-14		Proj	ect:	TELKW.			
Site:			Date	Fini	shed;	09/07/93	(Month/Day/Year)	
Torre	ns Locati	.on:						
lsd	sect	twp	rg	w	Lith	ology by:	Mullen	

			-			
			Drill C	ontr:	McAuley Drilling	ſ
Surveyed	Locatio	n:	Dri	ller:	Mullen	
N :	0.0		Geoph.	comp:	BPB ·	
E:	0.0					
EL:	0.0	-		Logs:	gamma	sonic
				•	density	neutron
Casing:	0.0				caliper	electric
Case Type	:				verticality	dipmeter
Downhole	Units:	Feet				
•			-		other:	
Comments:					•	

DEPTH	DEPTH   DESCRIPTION	COMMENTS
(ft)	(m)	1 <u>.</u> .
	***************************************	
12.0	3.66   till, red, soft	Clay/till
44.0	13.42   , medium soft	Volcanics
130.0	39.65 - mudstone, gray, medium soft	- © 55' Fractured to 60'
163.0	49.72   sandstone (medium), gray, medium soft	Carb traces - H2O @ 140'
178.0	54.29   , medium soft	Volcanics - multi colored
190.0	57.95 - mudstone, light gray, medium soft	- Shaley bands
235.0	71.68   , medium soft	Volcanics - multi-colored
262.0	79.91   mudstone, gray, medium soft	Shaley bands
277.0	84.49 - sandy siltstone, dark gray	-
295.0	89.97   sandstone (fine), dark gray, hard	1
300.0	91.50   sandstone (medium), dark gray	Multi-colored pebbles/shale/mudstone
360.0	109.80 - sandstone (medium), dark gray, hard	-

Hole:	T93R-3	ι5	•	Proj	ect: 1	TELKWA 1	993							
Site:				Date	Fini:	shed: 09	/07/93	(Month/Day/Year	}			•		
Torrer	is Loca	atio	1:											-
lsd	sect	t	wp	rg	w	Litholo	gy by:	Rick						
						Drill	Contr:	Cora Lynn Drill	ing		•			
Survey	ed Loo	atio	on:			Dr	iller:	Rick		•				
N:	(	0.0				Geoph.	Comp:	BPB	-					
Е:	(	0.0												
EL:	C	0.0					Logs:	gamma	sonic					•
			•					density	neutron			•		
Casing	f: (	0.0				•		caliper	electric					
Case 1	ype:							verticality	dipmeter		•			
Downho	le Uni	ts:	Feet											
			•					other:						
Commen	its:									-				

DEPTH I	DEPTH   DESCRIPTION	COMMENTS
(ft)	(m) ]	1
140.0 4	42.70	Clay/sand/gravel/till
140.1 4	42.73	Hole stavs open reasonably well.

Hole Id: T93R-16

Hole:	C93R-16		Pro	Project: TELKWA 1993								
Site:			Date Finished: 09/07/93 (Month/Day/Year)									
_	<b>.</b>											
Torren	s Locati	on:										
lsð	sect	twp	rg	w	Lithology	by: F	lick					
					Drill Con	tr: 0	Cora Lynn Drilli	ng				
Survey	ed Locat	ion:		Driller:			Rick					
N:	0.0				Geoph. Co	mp: E	BPB					
E:	0.0											
EL:	0.0				Lo	gs:	gamma	sonic				
							density	neutron .				
Casing	: 0,0						caliper	electric				
Case Ty	/pe:						verticality	dipmeter				
Downho.	le Units	: Fe	eet									

.

other:

Comments:

DEPTH	DEPTH   DESCRIPTION	COMMENTS	
(ft)	(m)	•	
120.0	36.60	Clay/sand/gravel/till	

Hole:	T93R-17		Proj	ect:				
Site:			Date Finished: 09/07/93				(Month/Day/Year)	I + 🔍
			•					
Torren	s Locatio	on:					-	
lsd	sect	twp	rg	w	Litholo	gy by:	Rick	
					Drill	Contr:	Cora Lynn Drill:	ing
Survey	ed Locat:	ion:			Dr	iller:	Rick	
N :	0.0				Geoph.	Comp:	BPB	
E:	0.0							
EL:	0.0					Logs:	gamma	sonic
	`						density	neutron
Casing	: 0.0						caliper	electric
Case T	ype:					•	verticality	dipmeter
Downho	le Units	: Fee	t					
							other:	

Comments:

DEPTH (ft)	DEPTH   DESCRIPTION	COMMENTS
		•
13.0	3.97	Clay/gravel
47.0	14.34   silty mudstone, dark gray, soft	
72.0	21.96 - mudstone, dark gray, soft	•
81.0	24.71   silty mudstone, light gray, medium soft	
86.0	26.23   mudstone, black, hard	L .
90.0	27.45 - sandstone (fine), light green, hard	- H2O - 35 GPM
104.0	31.72   mudstone, black, medium soft	
144.0	43.92   mudstone, black, soft	
158.0	48.19 - silty mudstone, black, medium soft	
161.0	49.11   silt, light gray, hard .	
169.0	51.55   mudstone, black, hard	
184~.0	56.12 - silt, light gray, medium soft	
209.0	63.75   sandstone (fine), dark gray, soft	-
226.0	68.93 [ silty mudstone, dark gray, soft	
249.0	75.94 - mudstone, black, soft	· ,
254.0	77.47   sandstone (fine), light green, hard	Fractured @ 272 - H2O - 20 GPM
256.0	78.08   mudstone, black, soft	
262.0	79.91 - COAL (dirty)	- 6'
271.0	82.66   carbonaeous mudstone, soft	
282.0	86.01   COAL.(clean)	11'
286.0	87.23 - mudstone, black, medium soft	
302.0	92.11   COAL (dirty)	Stringers of white, black and grey mdsn
326.0	99.43   mudstone, black, medium soft	
332.0	101.26 - silty mudstone, dark gray, medium soft	•
342.0	104.31   COAL (dirty)	Carby stringers
344.0	104.92 j mudstone, black	
350.0	106.75 - carby, dark gray	- Coal stringers
406.0	123.83   sandstone (fine), dark gray, medium soft	
423.0	129.02   sandstone (fine), dark gray, medium soft	

Hole:	193K-18		,Proj	ect:	TELKWA	1993		
Site:			Date	Fini	shed:	09/07/93	(Month/Day/Year	ົ
• Torren	s Locati	.on:						
lsd	sect .	twp	rg	W	Litho	logy by:	Rick	
					Dril	l Contr:	Cora Lynn Drill	ing
Survey	ed Locat	ion:			:	Driller:	Rick	
N:	0.0	)			Geop	h. Comp:	BPB	
E:	0.0	)						
EL:	0.0	)				Logs:	gamma	sonic
							density	neutron '
Casing	. 0.0	)					caliper	electric
Case T	ype:						verticality	dipmeter
Downho	le Units	; Fe	et					
		,					other:	
-								

- - - -

Comments:

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- - -

DEPTH	DEPTH	DESCRIPTION	COMMENTS
(ft)	(m) [		
80.0	24.40		Clay/gravel/till
88.0	26.84	COAL (clean)	8'
94.0	28.67 -	carbonaeous mudstone .	· .
133.0	40.57	mudstone, dark gray	
152.0	46.36	sandstone (medium), dark gray, hard	· · · · ·
189.0	57.65 -	silty mudstone, black, medium soft	· _
197.0	60.09	silty mudstone, black, medium soft	
200.0	61.00	mudstone, light gray, medium soft	
205.0	62.53 -	sandstone (coarse), light gray, hard	. ·
218.0	66.49	mudstone, black, hard	
230.0	70.15	sandstone (fine), light gray, hard	
234.0	71.37 -	sandstone (fine), dark gray, hard	
239.0	72.90	mudstone, dark gray, medium soft	
251.0	76.55	silty mudstone, black, medium soft	
256.0	78.08 -	sandstone (fine), light green, hard	
272.0	82.96	silty mudstone, light gray, soft	Carb or coal @ 259'
285.0	86.93	mudstone	Coal stringers - Frac @ 280 - 10 GPM
295.0	89.97 -	mudstone, light gray, hard	Traces of limestone
336.0	102.48		
358.0	109.19	, green	Volcanic
362.0	110.41 -	mudstone, gray, soft	
419.0	127.80	·	Volcanic - multi-colored
432.0	131.76	mudstone, soft	Coal stringers - multi-colored
441.0	134.51 -	carbonaeous mudstone, gray, soft	
476.0	145.18	mudstone, soft	Limestone
511.0	155.86	, dark red, soft	Volcanic
524.0	159.82 -	mudstone, dark gray, soft	
533.0	162.57	, dark red, soft	Volcanic
544.0	165.92	mudstone, gray, soft	, ,
603.0	183.92 -	· · · ·	· Volcanic - multi-colored

343.0 104.62 | silty mudstone, dark red, soft

400.0 122.00 - , black, medium soft

Hole: T93R-19

Torrens Location:

Site: 111

-

Date Finished: 09/07/93 (Month/Day/Year)

Project: TELKWA 1993

.

| Fractured 20 GPM - Volcanic

- Volcanic

lsd	sect	twp	rg	w	Litholo	gy by:	Rick			
					Drill	Contr:	Cora Lynn Drill	ing		
Survey	ed Locat	ion:			Dr	iller:	Rick			
N:	0.0		•		Geoph.	Comp:	BPB			
E:	0.0			,						
EL:	0.0					Logs:	gamma	sonic		
							density	neutron		
Casing	: 0.0						caliper	electric		•
Case T	ype:						verticality	dipmeter		
Downho	le Units	: Fee	et				•			
							other:			
Commen	ts:									
				•			· .			
					•					
								·		
DEPTH	DEPTH	DESCR	IPTIO	Ń					I	COMMENTS
(ft)	(m)	I							1	
										·
29.0	8.85	1							1	Clay/sand
34.0	10.37	sands	tone	(coarse	), hard				[	Gravel/till - limestone?
125.0	38.13	- , har	:d						-	Very conglomerate
128.0	39.04	, sof	it						]	Volcanic
133.0	40.57	sands	tone	(coarse	), hard				]	Limestone?
197.0	60.09	- sands	tone	(coarse	), blac	k, medi	ium soft		-	H2O - 4 GPM - coming back red
247.0	75.33	mudst	one, 1	black,	hard				I	Volcanic
271.0	82.66	mudst	one, d	dark re	d, soft				• 1	Volcanic
294.0	89.67	- sandy	silts	stone,	black,	hard			-	H2O - 15 GPM Volcanic
341.0	104.01	siltv	muds!	cone. d	lark red	, mediu	um soft		1	Volcanic

### Page 1

	mann aa				00717 X//23							
Hole: 1	193R-20	,	Proj	ject:	TELKWA IS	993			•			
Site:			Date	Fini	ished: 09,	/15/93	(Month/Day/Year)	•				
Torrens	s Locat	ion:										
lsd	sect	twp	rg	w	Litholog	ah pà:	Mullen					
					Drill (	Contr:	McAuley Drilling					
Survey	ed Loca	tion:			Dr:	iller:	Mullen					
N:	ο.	0			Geoph.	Comp:	BPB					
E:	ο.	0										
EL:	0.	0				Logs:	gamma '	sonic				
							density	neutron				
Casing	: 0.	0					caliper	electric				-
Case T	ype:						verticality	dipmeter				·
Downho	le Unit	s: F	eet									
							other:		•			
Comment	ts:			•								
											*	
	*											
												,
טייסיות	DEDTE		יים דסיידמי	J						1 COMMENTS		

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Hole: Site:	T93R-21	•	Proj Date	ect: Fini	TELKWA 1 shed: 09	993 /15/93	(Month/Day/Year	)
Torren	s Locatio	m:			v			4
lsd	sect	twp	rg	w	Litholo	gy by:	Rick	
		•			Drill	Contr:	Cora Lynn Drill	ing
Survey	ed Locati	ion:			Dr	iller:	Rick	
N:	0.0				Geoph.	Comp:	BPB	
E:	0.0							
EL:	0.0		•	-		Logs:	gamma	sonic
							density	neutron
Casing	: 0.0						caliper	electric
Case T	ype:						verticality	dipmeter
Downho	le Units	: Fee	t					
							other:	

Comments:

.

DEPTH	DEPTH	DESCRIPTION	COMMENTS
(ft)	(m)		
9.0	2.75		Clay/sand
21.0	6.41	mudstone, black, soft	l .
43.0	13.12 -	- silt, black, medium soft	
64.0	19.52	sandstone (fine), black, hard	1
76.0	23.18	sandstone (fine), dark gray, medium soft	
111.0	33.86 -	silty mudstone, dark gray, hard	<u>.</u>
145.0	44.23	mudstone, black, medium soft	Carby stringer @ 127
163.0	49.72	silty mudstone, black, hard	
169.0	51.55 -	- mudstone, dark brown, medium soft	
184.0	56.12	sandstone (fine), dark brown, soft	· ·
189.0	57.65	sandstone (fine), light green, soft	
191.0	58.26 -	- mudstone, light gray, medium soft	- Possibly a coal stringer @ 190
194.0	59.17	COAL (dirty)	3'
203.0	61.92	mudstone, black, medium soft	
209.0	63.75 -	sandstone (fine), light green, hard	
212.0	64.66	mudstone, dark gray, soft	
216.0	65.88	COAL (dirty)	
222.0	67.71 -	carbonaeous mudstone, dark gray, soft	- Coal stringers
233.0	71.07	COAL (dirty)	11'
266.0	81.13	mudstone, dark gray, medium soft	Carby stringers
271.0	82.66 -	- sandstone (fine), light green, hard	•
278.0	84.79	carbonaeous mudstone	
282.0	86.01	COAL (dirty)	
301.0	91.80 -	silty mudstone, dark gray, hard	· .
320.0	97.60 [	carbonaeous mudstone, black	Coal stringers
359.0	109.50	COAL (clean)	i 39'
370.0	112.85 -	carbonaeous mudstone, soft	
383.0	116.82	mudstone, dark gray, soft ·	
390.0	118.95	COAL (dirty)	7.
393.0	119.87 -	carbonaeous mudstone, dark brown, soft	<u>.</u> .
397.0	121.09	carbonaeous mudstone, dark brown, soft	With coal stringers
418.0	127.49	mudstone, dark gray, soft	
426.0	129.93 -	- COAL (dirty)	- 81

430.0 131.15 | carbonaeous mudstone, dark brown, soft 435.0 132.68 | mudstone, black, medium soft 462.0 140.91 - silt, dark gray, medium soft

.

| With coal stringers

Feet

Hole: T931	2-22	Proj	ect:	TELKWA 1993		
Site:		Date	Fini	ished: 09/16/	'93 (Month/Day/Year	•}
				•		
Torrens Lo	ocation:					
lsd sea	ct twp	rg	W	Lithology b	y: Mullen	
				Drill Cont	r: McAuley Drillin	g
Surveyed I	Location:			Drille	er: Mullen	
N :	0.0	•		Geoph. Com	p: BPB	
E:	0.0					,
EL:	0.0			Log	rs: gamma	sonic
					density	neutron
Casing:	0.0			-	caliper	electric

Downhole Units:

Case Type:

Comments:

DEPTH DEPTH   DESCRIPTION	COMMENTS
(ft) (m)	l
53.0 16.17   , soft	Clay/sand/gravel/till
295.0 89.97   mudstone, gray, medium soft	Few mudstone bands
307.0 93.63 - sandstone (medium), green	-
311.0 94.86   COAL, black, medium soft	Clean/dirty
330.0 100.65   mudstone, light gray, medium soft	@ 316' - 0.5 coal - carb. shale
359.0 109.50 - sandstone (medium), brown, medium soft	-
369.0 112.55   COAL (clean), black, medium soft	I
375.0 114.38   sandy siltstone, gray, medium soft	1
377.0 114.99 - COAL (clean), black, medium soft	-
403.0 122.92   mudstone, brown, soft	l
415.0 126.58   sandstone (medium), brown, medium soft	l · · · ·
416.0 126.88 - COAL (dirty), black	- Coal and carb shale
466.0 142.13   mudstone, green, medium soft	l .
496.0 151.28   COAL (clean), black, medium soft	@ 470' - 0.5' br. shale - few shale bands
498.0 151.89 - sandy siltstone, light gray, medium soft	-
503.0 153.42   COAL (clean), black, medium soft	1
506.0 154.33   sandy siltstone, light brown, medium soft	l
516.0 157.38 - mudstone, brown, medium soft	
527.0 160.74   COAL, black, medium soft	Clean/dirty
555.0 169.28   mudstone, brown, medium soft	© 540' - 1.3 coal and carb shale
563.0 171.72 - COAL (clean), black, soft	-
569.0 173.55   sandstone (medium), gray, medium soft	1
580.0 176.90   sandstone (fine), light gray, medium soft	Ι

verticality

other:

dipmeter

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Hole: T93R-23	Project: TELKWA 1993
Site:	Date Finished: 09/16/93 (Month/Day/Year)

## Torrens Location:

lsd	sect .	twp	rg	w	Lithology by:	Rick	
					Drill Contr:	Cora Lynn Drill	ing
Survey	ed Loca	tion:			Driller:	Rick	
N:	0.	0			Geoph. Comp:	BPB	
E:	0.	0		•			
EL:	0.	0			Logs:	gamma	sonic
						density	neutron
Casing	r: 0.	0				caliper	electric
Case T	ype:					verticality	dipmeter
Downho	le Unit	s: Fe	et				
						other:	
					•		

Comments:

DEPTH	DEPTH   DE	- ESCRIPTION	COMMENTS
(ft)	(m) i ·	I	
111.0	33.86 I		Clav/sand/gravel
142.0	43.31   mu	udstone, dark grav, soft	
165.0	50.33 - sa	andstone (fine), light green, soft	
198.0	60.39   mu	adstone, light gray, soft	
220.0	67.10   sa	andstone (medium), light green, soft	
224.0	68.32 - sa	undy siltstone, dark gray, medium soft	
250.0	76.25   sa	undstone (fine), light green, soft	•
257.0	78.39   si	lty mudstone, soft	Carby stringers - mixed brown/grey
307.0	93.63 - sa	ndstone (fine), light green, soft	•
316.0	96.38   si	lty mudstone, dark gray, medium soft	
323.0	98.52   sa	ndstone (fine), light green, soft	
359.0 1	L09.50 - si	lty mudstone, gray, soft -	Carby stringers
362.0 1	10.41   mu	dstone, dark gray, soft	
381.0 3	16.21   si	lty mudstone, light gray, sõft	`
397.0 1	21.09 - ca	urbonaeous mudstone, soft -	Coal stringers @ 381-
411.0 3	25.36   ca	urbonaeous mudstone	
423.0 3	29.02   CO	DAL (dirty)	
440.0 1	134.20 - ca	urbonaeous mudstone -	With coal stringers
455.0 1	138.78   ca	urbonaeous mudstone	Mixed with dirty coal
471.0 3	143.66 [ˈmu	dstone, soft	
486.0 3	.48.23 - si	.lty mudstone, black, medium soft -	
522.0 1	159.21   si	lty mudstone, gray, hard	
542.0 1	.65.31   si	lt, light gray, hard	

### Downhole Cuttings Description Program Ver 1.00

Hole Id: T93R-25

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Hole:	T93R-25	Project: TELKWA 1993	
Site:	21	Date Finished: 09/18/93	(Month/Day/Year)

# Torrens Location:

lsd	sect	twp	rg	w	Litholo	gy py:	D.R.		
					Drill	Contr:	McAuley Drilling	J	
Survey	yed Loca	tion:			Dr	iller:	Mullen		
N:	0.	0			Geoph.	Comp:	BPB	•	,
E:	0.	0			•				
EL:	0.	0				Logs:	gamma	sonic	
				•			density	neutron	
Casing	g: _ 42.	0					caliper	electric	
Case 1	type:						verticality	dipmeter	
Downho	ole Unit	s: Fe	et						
	•						other:		

Comments:

DEPTH DEPTH DESCRIPTION COMMENTS (ft) (m) I -----------23.0 7.02 | Clay/sand/gravel/till 243.0 74.11 | mudstone, brown, medium soft I 257.0 78.39 - sandstone (medium), gray, medium soft 371.0 113.16 | mudstone, gray, medium soft 381.0 116.21 | COAL (clean), black, medium soft 1 396.0 120.78 - sandy siltstone, gray, medium soft 398.0 121.39 | COAL (clean), black, medium soft 610.0 186.05 | sandstone (fine), light green, medium soft

Hole: Site:	T93R-26		Pro Dat	ject: e Fin:	TELKWA 1 ished: 09	993 . /16/93	(Month/Day/Year	•)
Torren	s Locati	on:						
lsd	sect	twp	rg	w	Litholo	gy by:	Rick	
			-		Drill (	Contr:	Cora Lynn Drill	ing
Survey	ed Locat:	ion:			Dr	iller:	Rick	
N:	0.0			•	Geoph.	Comp:	BPB	
E:	0.0							
EL:	0.0					Logs:	gamma	sonic
					•		density	neutron
Casing	: 0.0	-					caliper	electric
Case T	ype:	-					verticality	dipmeter
Downho	le Units	: Fe	et	•				

other:

Comments:

DEPTH (ft)	DEPTH   DESCRIPTION (m)	Comments 
103.0	31.42	Clay/gravel/till
108.0	32.94   COAL (dirty)	] 5'
120.0	36.60 - mudstone, dark gray, medium soft	-
122.0	37.21   COAL (dirty)	2'
131.0	39.96   mudstone, light gray, soft	1
136.0	41.48 - silty mudstone, dark gray, soft	- Coal stringer @ 130'
140.0	42.70   sandstone (fine), dark gray, hard .	l
147.0	44.84   silty mudstone, black, medium soft	l
160.0	48.80 - mudstone, dark gray, hard	
184,0	56.12   silty mudstone, dark gray, medium soft	1 · · ·
189.0	57.65   sandstone (fine), dark gray, hard	· ·
196.0	59.78 - sandstone (medium), light green	
219.0	66.80   sandstone (fine), light green, hard	-
236.0	71.98   silty mudstone, light gray, medium soft	
249.0	75.94 - mudstone, dark gray, medium soft	
261.0	79.61   silty mudstone, dark gray, medium soft	I
282.0	86.01   sandstone (fine), light gray, hard	

Hole: T	93R-28		Pro	ject:	TELKWA 1993 -				
Site:	22		Dat	e Fin	ished: 09/16/93	(Month/Day/Year	}		
Torrens Location:									
lsd	sect	twp	$\mathbf{rg}$	w	Lithology by:	Rick			
					Drill Contr:	Cora Lynn Drill	ing		
Surveye	d Locat	ion:			· Driller:	Rick			
N:	0.0	1			Geoph. Comp:	BPB			
E:	0.0	•				•			
EL:	0.0				Logs:	gamma	sonic		
	•					density	neutron		
Casing:	60.0					caliper	electric		
Case Ty	pe:					verticality	dipmeter		
Downhol	e Units	: Fe	et <sub>.</sub>						
						other:			

Comments:

DEPTH (ft)	DEPTH   DESCRIPTION (m)	COMMENTS
43.0	13.12	Clay/gravel
55.0	16.78   mudstone, dark gray, soft	[
57.0	17.39 - carbonaeous mudstone	<b>.</b>
72.0	21.96   mudstone, black, soft	
110.0	33.55   mudstone, dark gray, soft	
117.0	35.69 - COAL (dirty) -	<ul> <li>Possible carby layer w/coal stringer</li> </ul>
133.0	40.57   mudstone; dark gray, soft	
141.0	43.01   mudstone, dark brown, medium soft	
158.0	48.19 - mudstone, black, soft	
164.0	50.02   mudstone, light gray, soft	
180.0	54.90   mudstone, black, soft	•
211.0	64.36 - COAL (dirty)	- 31'
217.0	66.19   silty mudstone, dark gray, medium soft	
224.0	68.32   COAL (dirty)	7'
235.0	71.68 - mudstone, light gray, soft	
247.0	75.33   sandstone (fine), black, hard	
252.0	76.86 [ COAL (dirty)	Carby and coal stringers mixed
274.0	83.57 - silty mudstone, dark gray, soft	
296.0	90.28 ! silt, dark gray, medium soft	
319.0	97.30   sandstone (fine), light green, hard	
325.0	99.13 - silty mudstone, black, medium soft	•
340.0	103.70   sandstone (fine), light green, hard	Twisted off
392.0	119.56   silt, black, soft	
431.0	131.46 - silt, black, medium soft .	
453.0	138.17 į silt, dark gray, soft	
482.0	147.01   sandstone (fine), light green, hard	

.

Hole:	T93R-29		Proj	ect:	TELKWA 19	93	•	
Site	18		Date	Fini	shed: 09/	21/93	(Month/Day/Year)	
Torre	ns Locatio	on:						
lsd	sect	twp	rg	w	Litholog	y by:	T.R.	
					Drill C	Contr:	McAuley Drilling	<u>-</u>
Surve	yed Locat:	ion:			Dri	ller:	Mullen	
N:	6058971.0				Geoph.	Comp :	BPB Wireline	
E:	617173.0							•
EL:	849.7					Logs:	x gamma	sonic
							x density	neutron
Casin	ıg: 42.7	Meter	S				x caliper	electric
Case	Type:						x verticality	dipmeter
Downh	ole Units	Fee	t					
							other:	

Comments: .

DEPTH	DEPTH   DESCRIPTION	1	COMMENTS
(ft)	(m)		· ·
127.0	38.74   till, light gray, soft		Clay/sand/gravel/till (1,d/br/gr/wh)
235.0	71.68   sandstone (medium), light	t gray, medium soft	
286.0	87.23 - silty mudstone, light gra	ay, medium soft .	
292.0	89.06   COAL (clean), black, med	ium soft	
296.0	90.28   COAL (dirty), dark gray,	soft	Calcite/pyrite
298.0	90.89 - sandy siltstone, light g	ray, medium soft -	•
307.0	93.63   carbonaeous mudstone, da:	rk brown, soft	Carb br/blk shales - coal traces
319.0	97.30   silty mudstone, dark gray	y, medium soft	Calcite - light grey mudstone bands
336.0 :	102.48 - silty mudstone, dark brow	m, soft -	Carb & br. shale - coal bands
344.0 :	104.92   silty mudstone, light gra	ay, medium soft	•
346.0	105.53   COAL (clean), black, med	ium soft	
363.0 :	110.72 - COAL (dirty), black, med	ium soft -	Coal and shale interbedded
368.0	112.24   COAL (clean), black, med:	ium soft	
389.0	118.65   silty mudstone, light bro	own, soft	
392.0	119.56 - COAL (clean), black, med	ium soft -	
398.0	121.39 [ sandy siltstone, light gr	ray, medium soft	
402.0 1	122.61   COAL (clean), black, med	ium soft	
415.0 1	126.58 - sandy siltstone, light gr	ray, medium soft -	
440.0 1	134.20   silty mudstone, light gre	zen, medium soft	

Hole: T93R-30

Project: TELKWA 1993

Hole Id: T93R-30

.

Site: 17 Date Finished: 09/23/93 (Month/Day/Year)	
forrens Location:	
Drill Contr. Mchuley Drilling	
Surveyed Location. Driller, Mullen	
N. 6059572 0 George Comp. BDB Wireline	
E. 616781 0	
Mar 502.5 bogs: A ganuna Solite	
Essing: 24.4 Meters	
Case Type, v varhierlity diverter	
Downhole Unite. Rest	
other.	
Comments,	
	• • •
	• •
DEPTH DEPTH DESCREPTION	COMPNES
(ft) (m)	
	·
20.0 6.10   till. brown	Cobbles
29.0 8.85   till	(Sand/gravel/till) 22' H20
63.0 19.22 - till	-
100.0 30.50   sandy siltstone, light grav, soft	1
294.0 89.67   sandstone (medium), light grav	+ [ 120/ 120
298.0 90.89 - COAL (clean), black, soft	-
298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft	-
298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft	-
298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft	-     -
<ul> <li>298.0 90.89 - COAL (clean), black, soft</li> <li>304.0 92.72   carbonaeous mudstone, dark gray, medium soft</li> <li>307.0 93.63   COAL (clean), black, soft</li> <li>309.0 94.25 - carbonaeous mudstone, light gray, medium soft</li> <li>311.0 94.86   COAL (clean), black, soft</li> </ul>	
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft</pre>	-     - /
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft</pre>	
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft</pre>	
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft 320.0 97.60   COAL (clean), black, medium soft</pre>	
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft 320.0 97.60   COAL (clean), black, medium soft 329.0 100.35 - silty mudstone, light gray, medium soft</pre>	-     - Carb, shale - coal 
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft 320.0 97.60   COAL (clean), black, medium soft 329.0 100.35 - silty mudstone, light gray, medium soft 337.0 102.79   COAL (clean), black, medium soft</pre>	-     - Carb, shale - coal   -
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft 320.0 97.60   COAL (clean), black, medium soft 329.0 100.35 - silty mudstone, light gray, medium soft 337.0 102.79   COAL (clean), black, medium soft 339.0 103.40   sandy siltstone, dark gray, medium soft</pre>	-     - Carb, shale - coal   -
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft 320.0 97.60   COAL (clean), black, medium soft 329.0 100.35 - silty mudstone, light gray, medium soft 337.0 102.79   COAL (clean), black, medium soft 339.0 103.40   sandy siltstone, dark gray, medium soft 349.0 106.45 - COAL (clean), black, medium soft</pre>	- , , , , , , , , , , , , , , , , , , ,
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft 320.0 97.60   COAL (clean), black, medium soft 329.0 100.35 - silty mudstone, light gray, medium soft 337.0 102.79   COAL (clean), black, medium soft 339.0 103.40   sandy siltstone, dark gray, medium soft 349.0 106.45 - COAL (clean), black, medium soft 369.0 112.55   silty mudstone, gray</pre>	- , , , , , , , , , , , , , , , , , , ,
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft 320.0 97.60   COAL (clean), black, medium soft 329.0 100.35 - silty mudstone, light gray, medium soft 337.0 102.79   COAL (clean), black, medium soft 339.0 103.40   sandy siltstone, dark gray, medium soft 349.0 106.45 - COAL (clean), black, medium soft 369.0 112.55   silty mudstone, gray 373.0 113.77   COAL (dirty), black, medium soft</pre>	- (120 m20 - (120 m20) -
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft 320.0 97.60   COAL (clean), black, medium soft 329.0 100.35 - silty mudstone, light gray, medium soft 337.0 102.79   COAL (clean), black, medium soft 339.0 103.40   sandy siltstone, dark gray, medium soft 349.0 106.45 - COAL (clean), black, medium soft 369.0 112.55   silty mudstone, gray 373.0 113.77   COAL (dirty), black, medium soft 383.0 116.82 - COAL (dirty)</pre>	- Carb, shale - coal - Clean/dirty coal - Interbedded coal/shale
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft 320.0 97.60   COAL (clean), black, medium soft 329.0 100.35 - silty mudstone, light gray, medium soft 337.0 102.79   COAL (clean), black, medium soft 339.0 103.40   sandy siltstone, dark gray, medium soft 349.0 106.45 - COAL (clean), black, medium soft 369.0 112.55   silty mudstone, gray 373.0 113.77   COAL (dirty), black, medium soft 383.0 116.82 - COAL (clean), black, medium soft 387.0 118.04   COAL (clean), black, medium soft</pre>	- Carb, shale - coal - Carb, shale - coal
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft 320.0 97.60   COAL (clean), black, medium soft 329.0 100.35 - silty mudstone, light gray, medium soft 337.0 102.79   COAL (clean), black, medium soft 339.0 103.40   sandy siltstone, dark gray, medium soft 349.0 106.45 - COAL (clean), black, medium soft 369.0 112.55   silty mudstone, gray 373.0 113.77   COAL (dirty), black, medium soft 383.0 116.82 - COAL (dirty) 387.0 118.04   COAL (clean), black, medium soft 395.0 120.48   sandy siltstone, light gray, medium soft</pre>	- Carb, shale - coal - Carb, shale - coal
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft 320.0 97.60   COAL (clean), black, medium soft 329.0 100.35 - silty mudstone, light gray, medium soft 337.0 102.79   COAL (clean), black, medium soft 339.0 103.40   sandy siltstone, dark gray, medium soft 369.0 112.55   silty mudstone, gray 373.0 113.77   COAL (clean), black, medium soft 383.0 116.82 - COAL (dirty), black, medium soft 383.0 116.82 - COAL (dirty) 387.0 118.04   COAL (clean), black, medium soft 395.0 120.48   sandy siltstone, light gray, medium soft 398.0 121.39 - COAL (clean), black, medium soft</pre>	- Carb, shale - coal - Clean/dirty coal - Interbedded coal/shale - Carb, shale - coal
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft 320.0 97.60   COAL (clean), black, medium soft 329.0 100.35 - silty mudstone, light gray, medium soft 337.0 102.79   COAL (clean), black, medium soft 339.0 103.40   sandy siltstone, dark gray, medium soft 369.0 112.55   silty mudstone, gray 373.0 113.77   COAL (clean), black, medium soft 383.0 116.82 - COAL (dirty) 387.0 118.04   COAL (clean), black, medium soft 395.0 120.48   sandy siltstone, light gray, medium soft 395.0 120.48   sandy siltstone, light gray, medium soft 398.0 121.39 - COAL (clean), black, medium soft</pre>	- Carb, shale - coal - Therbedded coal/shale
<pre>298.0 90.89 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft 320.0 97.60   COAL (clean), black, medium soft 329.0 100.35 - silty mudstone, light gray, medium soft 337.0 102.79   COAL (clean), black, medium soft 339.0 103.40   sandy siltstone, dark gray, medium soft 369.0 112.55   silty mudstone, gray 373.0 113.77   COAL (clean), black, medium soft 383.0 116.82 - COAL (dirty), black, medium soft 383.0 116.82 - COAL (dirty) 387.0 118.04   COAL (clean), black, medium soft 395.0 120.48   sandy siltstone, light gray, medium soft 398.0 121.39 - COAL (clean), black, medium soft 398.0 121.39 - COAL (clean), black, medium soft 398.0 121.39 - COAL (clean), black, medium soft 419.0 127.80   sandstone (fine), brown, medium soft 424.0 129.32   COAL (clean), black, medium soft</pre>	- Carb, shale - coal - Clean/dirty coal - Interbedded coal/shale - Interbedded
<pre>298.0 90.09 - COAL (clean), black, soft 304.0 92.72   carbonaeous mudstone, dark gray, medium soft 307.0 93.63   COAL (clean), black, soft 309.0 94.25 - carbonaeous mudstone, light gray, medium soft 311.0 94.86   COAL (clean), black, soft 314.0 95.77   silty mudstone, light gray, medium soft 317.0 96.69 - COAL (dirty), black, soft 318.0 96.99   silty mudstone, light gray, medium soft 320.0 97.60   COAL (clean), black, medium soft 321.0 100.35 - silty mudstone, light gray, medium soft 337.0 102.79   COAL (clean), black, medium soft 339.0 103.40   sandy siltstone, dark gray, medium soft 349.0 106.45 - COAL (clean), black, medium soft 369.0 112.55   silty mudstone, gray 373.0 113.77   COAL (clean), black, medium soft 383.0 116.82 - COAL (dirty), black, medium soft 395.0 120.48   sandy siltstone, light gray, medium soft 395.0 120.48   sandy siltstone, light gray, medium soft 398.0 121.39 - COAL (clean), black, medium soft 398.0 121.39 - COAL (clean), black, medium soft 419.0 127.80   sandstone (fine), brown, medium soft 424.0 129.32   COAL (clean), black, medium soft 440.0 134.20 - sandstone (medium), gray, medium soft</pre>	- Carb, shale - coal - Carb, shale - coal - Carb, shale - coal - Clean/dirty coal - Interbedded coal/shale - Interbedded

Hole: T9	3R-32		Pro	ject:	TELKWA 1	L993		
Site:			Dat	e Fin	ished: 09	9/16/93	(Month/Day/Yea)	c)
Torrens 1	Locati	on:	*					
lsd s	ect	twp	rg	w	Lithold	gy by:	Rick	
					Drill	Contr:	Cora Lynn Drill	ling
Surveyed	Locat	ion:			Di	tiller:	Rick	
N :	0.0				Geoph.	Comp:	BPB	
E:	0.0							
EL:	0.0					Logs:	gamma	sonic
						•	density	neutron
Casing:	0.0						caliper	electric
Case Type	e:	•					verticality	dipmeter
Downhole	Units	: Fe	et					
							other:	

Comments:

DEPTH	DEPTH   DESCRIPTION	COMMENTS
(ft)	(m)   ·	I
6.0	1.83   clay	I
44.0	13.42   mudstone, dark gray, soft	I
76.0	23.18 - mudstone, black, medium soft	- · ·
81.0	24.71   mudstone, dark gray, medium soft	I
93.0	28.37   sandstone (fine), light green, medium soft	
97.0	29.59 - COAL (dirty), soft	- Carb mudstone
103.0	31.42   mudstone, light gray, soft	1
112.0	34.16 [ mudstone, black, soft	1
116.0	35.38 - COAL (clean) ·	- <u>.</u>
129.0	39.35   mudstone, light gray, soft	1
137.0	41.79   COAL (dirty)	Carby
144.0	43.92 - silty mudstone, light gray, soft	- H20 2 GPM
156.0	47.58   mudstone, light brown, soft	l .
174.0	53.07   silty mudstone, light gray, soft	1
181.0	55.21 - mudstone, black, medium soft	-
185.0	56.43   mudstone, black, medium soft	1
190.0	57.95   sandstone (fine), light green, medium soft	1
195.0	59.48 - mudstone, black, soft	-
200.0	61.00   carbonaeous mudstone	Coal stringer
212.0	64.66   mudstone, black, medium soft	l
218.0	66.49 - COAL (dirty)	-
220.0	67.10   mudstone, light gray, medium soft	1
224.0	68.32   COAL (dirty)	· ·
227.0	69.24 - mudstone, dark gray, soft	-
248.0	75.64   mudstone, black, soft	1
255.0	77.77   mudstone, black, hard	1
259.0	79.00 - sandstone (fine), light green, medium soft	-
262.0	79.91   mudstone, black, soft	1
276.0	84.18   COAL (dirty)	I
282.0	86.01 - carbonaeous mudstone	-
300.0	91.50   mudstone, black, soft	1
303.0	92.41   COAL (dirty)	l
321.0	97.91 - mudstone, black, hard	-

Page 1

327.0 99.74 } sandstone (coarse), light gray, hard 338.0 103.09 | COAL (dirty) 347.0 105.84 - mudstone, black, hard 353.0 107.67 | sandstone (fine), dark gray, medium soft 363.0 110.72 | mudstone, black, hard

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Hole Id: T93R-33

Page 1

Hole: T	93R-33		Pro	ject:	TELKWA	1993			•		
Site:	16		Date	e Fini	ished: 0	9/25/93	(Month/Day/Year)	<b>}</b>			
Torrens	Locati	.on:									
lsd	sect	twp	rg	w.	Lithol	ogy by:	Mullen		,		
					Drill	Contr:	McAuley Drilling	J	•		
Surveye	d Locat	ion:			D	riller:	Mullen				
N:	0.0	)			Geoph	. Comp:	BPB				
E:	0.0	)									
EL:	0.0	)				Logs:	gamma	sonic			
							density	neutron			•
Casing:	0.0	)				•	caliper	electric			
Case Ty	pe:						verticality	dipmeter			
Downhol	e Units	: F	eet		•	•					
							other:	•			
Comment	s:										
							•				
										•	
DEPTH	DEPTH	DES	CRIPTIO	N ·					COI	MENTS	
(f+)	(m)	1							1		

8.0	2.44		1	Clay, Till, Cobbles
135.0	41.18   sandstone	(fine), gray, medium soft	1	-
280.0	85.40 - mudstone,	light gray, medium soft	-	Soft mudstone bands
500.0	152.50   mudstone,	gray, medium soft	I	Soft mudstone bands

Hole: T93R-34			Pro	ject:	TELKWA 1993			
	Site:	37		Date	e Fin	ished: 09/25/93	(Month/Day/Year	}
	Torren	s Locati	on:					
	lsđ	sect	twp	rg	w	Lithology by:	Rick	
						Drill Contr:	Cora Lynn Drill	ing
	Survey	ed Locat	ion:			Driller:	Rick	
	N:	0.0	ı ,			Geoph. Comp:	BPB	
	E:	0.0	i					
	EL:	0.0	)			Logs:	gamma	sonic
		×					density	neutron
	Casing	1: 0.0					caliper	electric
	Case T	ype:					verticality	dipmeter
Downhole Units: Feet								
							other:	

Comments:

DEPTH	depth	DESCRIPTION	COMMENTS
(ft)	(m)		1 .
121.0	 36.91		Clay/gravel
136.0	41.48	silty mudstone, dark grav, soft	
143.0	43.62 -	mudstone, black, medium soft	·
169.0	51.55	silty mudstone, black, soft	1
181.0	55.21	mudstone, black, soft	, 
212.0	64.66 -	mudstone, black, hard	-
222.0	67.71	carbonaeous mudstone	With coal stringers
236.0	71.98	COAL (dirty), hard	Carby stringers
240.0	73.20 -	carbonaeous mudstone	-
256.0	78.08	mudstone, dark gray, hard	1
263.0	80.22	silty mudstone, dark gray, hard	l · ·
274.0	83.57 -	sandy siltstone, dark gray, medium soft	-
292.0	89.06	mudstone, dark brown, medium soft	1
328.0	100.04	silty mudstone, dark brown, hard	1
342.0	104.31 -	silty mudstone, dark brown, soft	-
369.0 :	112.55	mudstone, dark gray, medium soft	l
402.0	122.61	sandstone (coarse), gray, hard	l
418.0 :	127.49 -	silty mudstone, dark gray, soft	-
433.0 :	132.07	sandstone (coarse), dark gray, hard	l
441.0	134.51	mudstone, black, hard .	· ·
457.0	139.39 -	sandstone (coarse), dark gray, hard	- H20 15-GPM
462.0	140.91	mudstone, black, soft	
512.0 :	156.16	carbonaeous mudstone, soft	w/Coal Stringers
522.0 :	159.21 -	, medium soft	- Volcanic - very colorful
535.0	163.18	silty mudstone, dark gray, hard	· ·
542.0 :	165.31	mudstone, green, soft	l

Project: TELKWA 1993

Date Finished: 09/27/93 (Month/Day/Year)

lsd	sect	twp	rg	w	Lithology by:	Mullen	,	
					Drill Contr:	McAuley Drillin	g	· · ·
Surveye	d Local	tion:			Driller:	Mullen		
N:	0.0	0			Geoph. Comp:	BPB		
E:	0.0	3					3	
EL:	0.0	D			Logs:	gamma	sonic	
						density	neutron	
Casing:	. 0.1	D				caliper	electric	
Case Ty	me:					verticality	dipmeter	
Downhol	e Units	s: Fe	et		,			

other:

### Comments:

Hole: T93R-35

Site: 24

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DEPTH	DEPTH   DESCRIPTION	Comments
(ft)	(m) .	j
80.0	24.40   , brown	Clay/till/cobbles
125.0	38.13	Clay/sand/gravel/till
168.0	51.24 - mudstone, gray, medium soft	- Possible coal @ 128' - 130'
170.0	51.85   COAL {clean}, black, soft	l · .
170.5	52.00   silty mudstone, gray, medium soft	
176.0	53.68 - COAL (clean), black, soft	-
184.0	56.12   silty mudstone, light gray, medium soft	Ι.
184.5	56.27   COAL (clean), black, soft	1
279.5	85.25 - silty mudstone, gray, medium soft	<u> </u>
312.5	95.31   COAL (clean), black, soft	0304' 1.0 carb shale
323.0	98.52   mudstone, gray, medium soft	
329.0	100.35 - COAL, black, medium soft	- Clean/dirty - Carb. shale and coal bands
331.0	100.96 į mudstone, gray, medium soft	
344.0	104.92   sandstone (coarse), gray, hard	l
348.0	106.14 - COAL, black	- Clean/dirty - carb. shale and coal bands
361.0	110.11   mudstone, gray, medium soft	l
307.0 93.63 | sandstone (fine), light gray, soft 318.0 96.99 - silty mudstone, light gray, soft

Hole: T93R-36 Project: TELKWA 1993
Site: 24 Date Finished: 09/27/93 (Month/Day/Year)
Torrens Location:

						-	
lsd	sect	twp	rg	w	Lithology by	: Rick	
					Drill Contr	: Cora Lynn Drill	ing
Survey	ed Loca	tion:			Driller	: Rick	
N:	0.	0			Geoph. Comp	: BPB	
E:	ο.	0					
EL:	ο.	0			Logs	: gamma	sonic
						density	neutron
Casing	: 0.	0				caliper	electric
Case T	ype:					verticality	dipmeter
Downho	le Unit	s: Fe	et			•	
						other:	

Comments:

DEPTH DEPTH | DESCRIPTION | COMMENTS (ft) (m) I ·----15.0 4.58 | clay 22.0 6.71 [ mudstone, dark gray, soft L 23.0 7.02 - COAL (dirty) 31.0 9.46 | carbonaeous mudstone 33.0 10.07 | COAL (dirty) T 35.0 10.68 - carbonaeous mudstone - Coal stringers 59.0 18.00 | mudstone, dark gray, soft 1 65.0 19.83 | carbonaeous mudstone 77.0 23.49 - COAL (dirty) 82.0 25.01 | sandstone (coarse), dark gray 92.0 28.06 | mudstone, black, soft 95.0 28.98 - COAL (dirty) 100.0 30.50 | silty mudstone, dark gray, medium soft 102.0 31.11 | carbonaeous mudstone 112.0 34.16 - COAL (dirty) . 117.0 35.69 | mudstone, black, medium soft 122.0 37.21 | COAL (dirty) 134.0 40.87 - mudstone, black, soft 140.0 42.70 | sandstone (medium), dark gray, medium soft Trace H2O 143.0 43.62 | carbonaeous mudstone | w/Coal Stringers 169.0 51.55 - mudstone, black, soft 181.0 55.21 | mudstone, dark gray, medium soft 1 237.0 72.29 | mudstone, black, hard L 241.0 73.51 - carbonaeous mudstone - w/Coal Stringers 254.0 77.47 | mudstone, light gray, hard 1 270.0 82.35 | carbonaeous mudstone · 274.0 83.57 - silty mudstone, light gray, medium soft . 280.0 85.40 | sandstone (coarse), dark gray, hard 282.0 86.01 | carbonaeous mudstone 290.0 88.45 - silt, light gray, medium soft 295.0 89.97 | sandstone (fine), light gray, medium soft H20 - 5 GPM

330.0 100.65 | sandstone (coarse), soft
342.0 104.31 | silty mudstone, light gray, soft
353.0 107.67 - silty mudstone, brown, soft
355.0 108.28 | mudstone, light gray, soft
358.0 109.19 | silt, gray, soft
370.0 112.85 - sandstone (coarse), soft
395.0 120.48 | mudstone, light gray, soft
418.0 127.49 | silt, dark gray, medium soft
450.0 137.25 - mudstone

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| Green/white/red | -| | - Grey/black/white/red

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| | -- Volcanic red

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Hole: T93R-37	Project: TELKWA 1993	
Site:	Date Finished: 09/27	/93 (Month/Day/Year)
	•	
Torrens Location:		
lsd sect twp	rg w Lithology	by: Rick
	Drill Con	tr: Cora Lynn Drilling
Surveyed Location:	Drill	er: Rick .
N: 0.0	Geoph. Co	np: BPB
E: · 0.0	•	
EL: 0.0	Lo	ys: gamma sonic
		density neutron ·
Casing: 0.0		caliper electric
Case Type:		verticality dipmeter
Downhole Units: F	eet '	
		other:

Comments:

DEPTH	DEPTH   DESCRIPTION	COMMENTS
(ft)	(m) ]	l
14.0	4.27	Clay/gravel
30.0	9.15   mudstone, light gray, soft	1
31.0	9.46 - COAL (dirty)	- H2O well flowing @ 1 GPM
35.0	10.68   carbonaeous mudstone, dark brown, soft	Fractured
84.0	25.62   silty mudstone, dark gray, soft	I
145.0	44.23 - silty mudstone, dark gray, soft	-
157.0	47.89   mudstone, black, medium soft	1
179.0	54.60   sandstone (medium), light green, medium soft	· · ·
192.0	58.56 - sandstone (medium), light green, hard	·
203.0	61.92   mudstone, gray, hard	
217.0	66.19   mudstone, brown, hard	1
223.0	68.02 - sandstone (medium), light green, medium soft	-
235.0	71.68   sandy siltstone, gray, medium soft	
255.0	77.77   sandstone (coarse), dark gray, medium soft	· 1
269.0	82.05 - sandstone (medium), dark gray, hard	-
286.0	87.23   sandstone (medium), black, hard	I
294.0	89.67   silty mudstone, black, hard	
303.0	92.41 - sandstone (medium), light green, hard	-
326.0	99.43   sandstone (medium), black, hard	1
395.0	120.48   mudstone, black, hard .	
403.0	122.92 - sandstone (fine), light green, medium soft	-
416.0	126.88 [ mudstone, black, medium soft	Fractured @ 411'
436.0	132.98   sandstone (medium), light gray, hard	
452.0	137.86 - mudstone, black, medium soft	-

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Project: TELKWA 1993

Date Finished: 09/27/93 (Month/Day/Year)

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Hole: T93R-39

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Site:

	Torrens	Locati	ion:											
	lsd	sect	twp	rg	W	Litholo	gy by:	Rick						
						Drill	Contr:	Cora Lynn Drill	ling				-	
	Surveye	ed Locat	ion:			Dr	iller:	Rick						
	N:	0.0	)			Geoph.	Comp:	BPB						
	E:	0.0	)											
	EL:	0.0	)				Logs:	gamma	sonic			•	•	
•								density	neutron					
	Casing:	29.0	)					caliper	electric	•			.*	
	Case Ty	pe:						verticality	dipmeter					
	Downhol	e Units	s: Fe	et							ĸ		*	-
				-				other:						
	Comment	s:				•	*							
										_				
					•									
												•		-
	DEPTH	DEPTH	I DESC	יפדפידהי	J			,			COMMENTS			
•	/ft)	/m)	1 2200								1	•		
	1207													

29.0	8.85	Clay/sand/gravel
32.0	9.76   COAL (clean)	l
37.0	11.29 - carby	- w/Coal Stringers
45.0	13.73   mudstone, dark gray, soft	I
47.0	14.34   COAL (clean)	I
50.0	15.25 - carbonaeous mudstone	-
59.0	18.00   sandstone (coarse), dark gray, soft	l
63.0	19.22   carbonaeous mudstone	1
65.0	19.83 - COAL (clean)	-
69.0	21.05   mudstone, light gray, soft	1
73.0	22.27   carby, soft	w/Coal Stringers
84.0	25.62 - mudstone, dark gray, soft	-
99.0	30.20   silty mudstone, brown, medium soft	
104.0	31.72   carbonaeous mudstone	w/Coal Stringers
117.0	35.69 -	-
119.0	36.30   COAL (dirty)	
130.0	39.65   mudstone, dark gray, soft	l
136.0	41.48 - carbonaeous mudstone, soft	- w/Coal Stringers
145.0	44.23   mudstone, dark gray, soft	I
163.0	49.72   mudstone, light gray, soft	155' Carby stringer
166.0	50.63 - COAL (dirty)	-
178.0	54.29   carbonaeous mudstone, soft	Coal stringers
180.0	54.90   mudstone, dark gray, soft	[
201.0	61.31 - carbonaeous mudstone, light brown, soft	- Very soft
235.0	71.68   silty mudstone, dark gray, soft	1
240.0	73.20   carbonaeous mudstone	Coal stringers
336.0	102.48 - mudstone, light red, soft	- Volcanic
362.0	110.41   mudstone, light red, hard	Volcanic





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10 A.

SANDSTONE MUDSTONE GLACIAL SEDIMENTS COAL VOLCANIC BASEMENT ROCKS BIVALVES & SHELL FRAGMENTS **B** BENTONITIC • • • CALCOREOUS BURROWS

•

LEGEND:

CONGLOMERATE

PIT 8 (WEST)



DATUM Base of Seam #2

DATUM #1 Seam

PIT 8 (EAST)

0.47

0.67

0.49

1.40

0.49

6U 1.31 6L 1.60

18.04

6.82

≥ 0.95

11

10

9



0.97

?

| 10 | 0     | 10    | 20 |
|----|-------|-------|----|
|    |       |       |    |
|    | SCALE | 1:500 |    |

PIT 7 AREA

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HAZELTON G TELKWA FORM

CRE

NER SKEE

- 200

-1-

RED

| ГІТНОГОСҮ | SEAM DESIGNATION | COAL THICKNESS       | INTERSEAM THICKNESS        |      |  |
|-----------|------------------|----------------------|----------------------------|------|--|
|           |                  |                      |                            |      |  |
|           | 10               | 1.05                 | 7 5 03                     |      |  |
|           | 9                | 1.02                 | ] 0.00<br>2 a oo           |      |  |
|           | 8U<br>8L         | 0.30<br>0.85         | → 2.90<br>→ 1.27           |      |  |
|           |                  |                      |                            |      |  |
|           |                  |                      |                            |      |  |
|           |                  |                      | > 21.75                    |      |  |
|           |                  | 4.45                 |                            |      |  |
|           | 60<br>6LB<br>6LA | 1.45<br>0.58<br>0.57 | > 0.53<br>> 0.16<br>> 1.88 |      |  |
|           | 5X               | 1.44                 | → 1.23                     |      |  |
|           | 5<br>5L          | 0.63                 | > 0.73                     |      |  |
|           | 5R               | 1.78                 | J 2 75                     |      |  |
|           | 4                | 2.02                 | ] 2.70                     |      |  |
|           |                  |                      | <b>6</b> .16               |      |  |
|           | 3U<br>3L         | 1.22<br>0.74         | > 0.75<br>]                |      |  |
|           |                  |                      | 8.89                       |      |  |
|           | 2U<br>] 2        | 0.37<br>1.51         | 」<br>→ 1.58<br>> 0.20      |      |  |
|           |                  | 1./8                 |                            | <br> |  |

TENAS CREEK



|   | SEAM DESIGNATION | COAL THICKNESS       | INTERSEAM THICKNESS |
|---|------------------|----------------------|---------------------|
|   | e<br>d           | 0.44<br>0.52<br>0.47 | } 2.45<br>} 2.89    |
|   | c<br>c           | 1.46                 | → 1.26<br>} 6.92    |
| 2 | Ь                | 0.36                 | 4.86                |
|   | 10               | 1.98                 | ⊃ 0.75              |
|   | I                | - 3.98               | 7 2.30              |
|   | 1La<br>1Lb       | 0.49<br>0.69         | → 1.01<br>→ 3.33    |
|   | 1Lc              | 0.46                 |                     |
|   | 1Ld              |                      |                     |
|   | 1Le              |                      |                     |



PIT 3 AREA



# \_\_\_\_\_\_

 $\neg \checkmark$ A? 

# **Manalta** coal ltd.

TELKWA

## TYPICAL STRATIGRAPHIC COLUMNS

| )wn. by: M.L.E. | Date:     | APRIL, | 1995 |
|-----------------|-----------|--------|------|
| Chk'd by: A.L.  | File no.: | 42073  |      |





### TELKWA - PIT #7

**Drill-hole Scam Intersections** 

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|                                                                                                                                                                                                                                            |                                                                                           | 2 Seam                                                                                                                                                                      |                     |                                                                                                                                                             |                                                                                                                                                             | 3 Seam                                      | ·                                                                  |                                      | 4 Seam                                                                                                                                                            | l                                                                                                                            |                                                                                                                                             |                                                                                                                                             |                                                                                                                      | •                                                                                                                           |                      | 5 Seam                       | -            |                                                                                                                      |                                                                                                                              | — 6 L                                                                                                        | ower Si                                                                                                             | eam —                                                                                 | - 6                                                                          | Upr Sea                                     | am —                 |                                                      | 8 Seam                |                                      |                                                                                         |              |                      |                |                    |               |                  |              |                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------|----------------------|------------------------------------------------------|-----------------------|--------------------------------------|-----------------------------------------------------------------------------------------|--------------|----------------------|----------------|--------------------|---------------|------------------|--------------|-----------------|
|                                                                                                                                                                                                                                            | Scam:                                                                                     | 2A<br>2a<br>(m)                                                                                                                                                             | 2P<br>2 prtg<br>(m) | 2B<br>25<br>(m)                                                                                                                                             | 2<br>total<br>(m)                                                                                                                                           | ibrdn<br>(m)                                | 2U<br>2-upr<br>(m)                                                 | ibrdn<br>(m)                         | 2B/3L<br>ibrdn<br>(m)                                                                                                                                             | 3L<br>3-lwr<br>(m)                                                                                                           | 3P<br>ibrdn<br>(m)                                                                                                                          | 3U<br>3-upr<br>(m)                                                                                                                          | ibrdn<br>(m)                                                                                                         | 4<br>4<br>(m)                                                                                                               | ibrdn<br>(m)         | 5R<br>5R<br>(m)              | ibrdn<br>(m) | 4/5T<br>ibrdn<br>(m)                                                                                                 | 5T<br>5T<br>(m)                                                                                                              | 6LP<br>ibrdn<br>(m)                                                                                          | 5<br>5<br>(m)                                                                                                       | 6P1<br>ibrdn<br>(m)                                                                   | 5x<br>5x<br>(m)                                                              | 6P2<br>ibrdn<br>(m)                         | 6LA<br>6-1wrA<br>(m) | 6UP1<br>ibrdn<br>(m)                                 | 6LB<br>6-lwrB<br>:(m) | 6UP2<br>ibrdn<br>(m)                 | 6U<br>6-upr<br>(m)                                                                      | ibrdn<br>(m) | 8L<br>8-lwr<br>(m)   | ••ibrdn<br>(m) | 8U<br>8-upr<br>(m) | ibrdn<br>'(m) | 9<br>9<br>(m)    | ibrdn<br>(m) | 10<br>10<br>(m) |
| Drill-hole<br>T92D-12<br>T92D-22<br>T89D-930<br>T86D-604<br>T92R-29<br>T89D-931<br>T82D-218<br>T94R-33C<br>T89D-931<br>T82D-218<br>T94R-33C<br>T89D-921<br>T89D-920<br>T89D-929<br>T89D-929<br>T89D-927<br>T82D-216<br>T92R-27<br>T86D-603 | N/C                                                                                       | (m)<br>0.71<br>1.98<br>1.72<br>1.81<br>0.57<br>1.75<br>1.79<br>1.75<br>1.79<br>1.75<br>1.71<br>1.47<br>2.39<br>1.88<br>2.19<br>2.39<br>1.88<br>2.12<br>2.28<br>2.16<br>2.07 | 1.14<br>            | (m)<br>1.27<br>1.61<br>1.58<br>1.57<br>0.43<br>1.85<br>1.74<br>1.52<br>1.52<br>1.99<br>1.97<br>1.50<br>1.52<br>1.72<br>1.72<br>1.44<br>1.44<br>1.59<br>1.68 | (m)<br>3.12<br>3.59<br>3.30<br>3.38<br>1.00<br>3.60<br>3.53<br>3.27<br>3.24<br>2.49<br>3.52<br>3.91<br>3.92<br>4.66<br>3.60<br>3.58<br>3.96<br>3.75<br>3.75 | (m)<br>1.98<br>2.09<br>1.10<br>1.31<br>1.83 | (m)<br>(m)<br>(m)<br>(m)<br>(m)<br>(m)<br>(m)<br>(m)<br>(m)<br>(m) | (m)<br>7.13<br>11.18<br>9.10<br>8.14 | (m)<br>19.76*<br>10.62<br>6.46<br>8.69<br>10.41<br>10.96<br>9.82<br>10.42<br>9.60<br>9.53<br>12.36<br>10.56<br>10.56<br>10.56<br>11.68<br>11.14<br>10.99<br>10.40 | 1.00<br>0.52<br>0.58<br>0.42<br>0.55<br>0.58<br>0.57<br>0.53<br>0.52<br>0.27<br>0.72<br>1.33<br>0.84<br>1.18<br>1.06<br>1.10 | (m)<br>1.82<br>1.17<br>1.05<br>0.76<br>0.38<br>1.03<br>0.76<br>0.81<br>0.68<br>0.73<br>0.46<br>1.23<br>0.27<br>0.43<br>0.16<br>0.30<br>0.69 | (m)<br>1.77<br>1.35<br>1.15<br>1.12<br>1.20<br>1.53<br>1.39<br>0.93<br>1.36<br>1.03<br>0.96<br>0.97<br>0.98<br>1.69<br>0.99<br>0.90<br>1.08 | 5.22<br>9.17<br>4.65<br>8.52<br>5.37<br>5.82<br>5.09<br>6.42<br>6.66<br>6.18<br>6.04<br>7.08<br>5.27<br>5.42<br>5.21 | (m)<br>1.52<br>1.19<br>1.92<br>1.75<br>1.74<br>1.97<br>1.75<br>2.78<br>2.19<br>2.10<br>2.16<br>3.00<br>2.13<br>1.84<br>2.14 | 2.74<br>2.43<br>5.02 | <br>2.14<br>1.36<br>1.85<br> | 4.12<br>3.81 | (m)<br>(m)<br>9,000<br>10,68<br>8,74<br>2,74<br>2,35<br>2,82<br>6,43<br>1,55<br>1,60<br>1,10<br>1,88<br>2,31<br>2,10 | 0,42<br>0,94<br>0,62<br>0,50<br>0,50<br>0,46<br>0,55<br>0,64<br>0,82<br>0,83<br>1,04<br>0,82<br>0,83<br>1,04<br>0,82<br>0,49 | 0,44<br>0,76<br>0,70<br>0,00<br>1,21<br>2,09<br>1,23<br>1,02<br>1,36<br>0,70<br>0,27<br>1,09<br>0,40<br>0,33 | (m)<br>2.35<br>2.07<br>1.56<br>2.29<br>2.43<br>3.12<br>2.63<br>3.43<br>3.00<br>4.30<br>3.16<br>3.36<br>3.11<br>3.10 | 2.62<br>2.52<br>2.44<br>0.71<br>0.64<br>-0.74<br>0.52<br>1.32<br>0.67<br>0.71<br>0.59 | 2.30<br>0.99<br>1.96<br>2.30<br>0.70<br>1.55<br>1.20<br>0.99<br>1.18<br>1.14 | (m)<br>0.61<br>0.62<br>1.55<br>2.91<br>3.69 |                      | 0,10<br>0,10<br>0,14<br>0,00<br>0,18<br>0,22<br>0,24 |                       | 1.19<br>0.45<br>0.90<br>0.38<br>0.39 | -upr<br>(m)<br>1.54<br><br>1.71<br>0.74<br>0.77<br>1.55<br>1.11<br>1.64<br>1.55<br>1.72 |              | 8-1WF<br>(m)<br>0.85 | (m)            | 8-upr<br>(m)       | 2.90          | 9<br>(m)<br>1.02 | 5.03         | 10 (m)<br>1.05  |
| T82D-217<br>T84D-443<br>T84D-444<br>T85D-503<br>T89R-901<br>T89R-902<br>T89R-903<br>T89D-926<br>T89D-927<br>T92R-28                                                                                                                        | N/C<br>#1 seams<br>#1 seams<br>#1 seams<br>#1 seams<br>#1 seams<br>N/C<br>#1 seams<br>N/C |                                                                                                                                                                             | •                   |                                                                                                                                                             |                                                                                                                                                             |                                             |                                                                    |                                      |                                                                                                                                                                   |                                                                                                                              |                                                                                                                                             | •                                                                                                                                           | •                                                                                                                    |                                                                                                                             | `                    | ·                            |              |                                                                                                                      |                                                                                                                              |                                                                                                              |                                                                                                                     |                                                                                       |                                                                              |                                             |                      |                                                      |                       |                                      |                                                                                         |              | ·                    |                |                    |               |                  |              | ·               |

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Averages: 1.78 0.54 1.51 3.43 1.66 0.32 8.89 10.28 0.73 0.75 1.20 6.14 2.01 3.40 1.78 3.97 4.10 0.62 0.83 2.85 1.23 1.44 1.88 0.64 0.15 0.65 0.64 1.37 --- 0.85 1.27 0.30 2.90 1.02 5.03 1.05

where: N/C = No Coal

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= possibly structurally thickened; not considered in averages

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| DRILL-HOLE | SEAM       | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAI<br>Rayy<br>( | MOISTURE<br>Clean<br>%) | A<br>Raw<br>( | SH<br>Clean<br>%) | vo | DLATILE MATTER<br>Raw Cican<br>(%) | FIXED CARDON<br>Raw Clean<br>(%) | CALORIFIC VALUE<br>Raw Cican<br>(MJ/kg) | SUL<br>Ravr<br>( | PHUR<br>Cican<br>%) | YIELD<br>(%) | SPE<br>GRA<br>Raw<br>(g/cc) | CIFIC<br>VITY<br>Wabbily<br>(g/ee) | F.S.L   |
|------------|------------|------------------------|-------------------|-------------------------|-------------------------|-----------------------|-------------------------|---------------|-------------------|----|------------------------------------|----------------------------------|-----------------------------------------|------------------|---------------------|--------------|-----------------------------|------------------------------------|---------|
|            |            |                        |                   |                         |                         |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    | <u></u> |
| T92D-22    | 7          | 100                    | 27,23             | 27,65                   | 0.42                    | 1.19                  |                         | 14,84         |                   |    | P. 7.                              |                                  |                                         | 2,59             |                     |              | 1,43                        |                                    |         |
|            | 60         | 100                    | 35,05             | 36,39                   | 1.54                    | 0.67                  | 1.61                    | 13.70         | 7.20              |    | 29.69                              | 55.94                            |                                         | 2.83             | 1,66                | 86.86        | 1.41                        | 1.60                               |         |
|            | 3X.<br>9   | 100                    | 30.42<br>A1 \$A   | 40,72                   | 2,30                    | 0,80                  | 2,32                    | 17.00         | 10,17             |    | 20,38                              | 22,88                            |                                         | 1.23             | 1.13                | 84.50        | 1.40                        | 1,60                               | •       |
|            | 5          | 91                     | 41,54             | 45.69                   | 235                     | 0.68                  | 2 00                    | 13.10         | 7 3 8             |    | 78.48                              | 57 74                            |                                         | 0.70             | 0.57                | 00.46        | 1.41                        | 1.60                               |         |
|            | ST/S Prte  | 21                     | 45 69             | 4616                    | 0.47                    | 0.00                  | 2.00                    | 15,10         | 7,20              |    | 20,40                              | 21.74                            |                                         | 0.70             | 0.57                | 30.40        | 1.41                        | 1.00                               |         |
|            | ST         |                        | 46.13             | 46.55                   | 0.42                    | 0.88                  | 0.91                    | 15.20         | t3.16             |    |                                    |                                  | •                                       | 2 22             | 1.95                | 97.87        | 1.43                        | 1.60                               |         |
|            | 4          |                        |                   |                         |                         |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
|            | 3U         | 100                    | 63,77             | 65.54                   | 1.77                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
|            | 3 Prtg     |                        | 65.54             | 67.36                   | 1.82                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
|            | 3L         | 100                    | 67.36             | 68.36                   | 1.00                    | . 0,63                | 0,95                    | 12,40         | 10.57             |    | 28.83                              | 58,14                            |                                         | L.91             | 1.61                | 95,05        | 1,40                        | 1,60                               |         |
|            | ?          | 100                    | 82.87             | 83.68                   | 0.81                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
|            | 2B         | 100                    | 88.12             | 89.39                   | 1.27                    | 0.59                  | 1.40                    | 14.39         | 9.31              |    | 26.13                              | 58,89                            |                                         | 0.95             | 0.86                | 88.81        | 1,42                        | 1,60                               |         |
|            | 2 Prtg     |                        | 89.39             | 90,53                   | 1.14                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
|            | 2A         | 100                    | 90.53             | 91.24                   | <u> </u>                |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
| T92R-27    | 4          | N/A                    | 10.21             | 12.35                   | 2.14                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
|            | ?          | N/A                    | 12,82             | 13,33                   | 0,51                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              | •                           |                                    |         |
|            | 3 <b>U</b> | N/A                    | 17.56             | 18.64                   | 1.08                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
|            | 3 Prtg     |                        | 18,64             | 19.33                   | 0.69                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
|            | 3L         | N/A                    | 19.33             | 20.43                   | 1.10                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
|            | 2U .       | N/A                    | 28,57             | 29.00                   | 0.43                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
|            | 2B         | N/A                    | 30.83             | 32.42                   | 1.59                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
|            | 2A         |                        | 32.42             | 34.58                   | 2.16                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
| T92R-28    |            | No Coal                |                   |                         |                         |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             | •                                  |         |
| T97R-29    | शा         | N/A                    | 16 58             | 17.78                   | 1 20                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
| 1721(25    | 3 Priz     |                        | 17.78             | 18.16                   | 0.38                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
|            | • 3L       | N/A                    | 18.16             | 18.71                   | 0.55                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    | •       |
| •          | <b>a</b> D | N//                    |                   |                         |                         |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
|            | 2B<br>2A   | NA                     | 29,12             | 29,35<br>30.12          | 0.43                    |                       |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
| T02D-11    | 12         |                        | 20.65             | 22.50                   | 2.95                    |                       |                         |               |                   |    |                                    |                                  | ,                                       |                  |                     |              |                             |                                    |         |
| 1990-91    | 11         |                        | 33.85             | 34.37                   | 2.0J<br>0.57            | •                     |                         |               |                   |    |                                    |                                  |                                         |                  |                     |              |                             |                                    |         |
|            | ?          |                        | 38,32             | 38.81                   | 0.49                    | 0.44                  |                         | 32.15         |                   |    |                                    |                                  |                                         | 2.56             |                     |              | 1,63                        |                                    |         |

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2,5 6.5 0,5

| drill-hole<br># |       | SEAM     | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From | EAM INT'RVL<br>To<br>(m) | SEAM<br>THICKN'5<br>(m) | RESIDUAL<br>Ram<br>( | MOISTURE<br>Clean<br>%) | A<br>Raw<br>(' | SII<br>Clean<br>%) | VOLATIL<br>Raiv<br>( | E MATTER<br>Clean<br>%) | FIXED (<br>Ratt<br>(? | CARBON<br>Clean<br>%) | CALORI<br>Ravy<br>(M | FIC VALUE<br>Clean<br>J/kg) | SUL<br>Ratt<br>( | PHUR<br>Clean<br>%) | YIELD<br>(%) | SPEC<br>GRA<br>Raw<br>(g/cc) | CIFIC<br>VITY<br>Wahblty<br>(g/cc) | F.S.L |
|-----------------|-------|----------|------------------------|-------------------|--------------------------|-------------------------|----------------------|-------------------------|----------------|--------------------|----------------------|-------------------------|-----------------------|-----------------------|----------------------|-----------------------------|------------------|---------------------|--------------|------------------------------|------------------------------------|-------|
| T93D-38         |       | 21       |                        | 69.89             | 70.10                    | 0.21                    | 0.55                 |                         | 30.71          |                    |                      |                         |                       |                       |                      |                             | 1.15             |                     |              | 1.61                         |                                    |       |
|                 |       | Pring    |                        | 70.10             | 70.68                    | 0.58                    | 0.50                 |                         | 80.09          |                    |                      |                         |                       |                       |                      |                             | 2,67             |                     |              | 2,42                         |                                    |       |
|                 |       | 72       |                        | 70,68             | 71.28                    | 0,60                    | 0,54                 | 0,59                    | 22,51          | 17,36              | 29,08                |                         | 47.87                 |                       | 26.30                |                             | 1.28             | 1.33                | 81.11        | 1.51                         |                                    |       |
|                 |       | 73       |                        | 84.86             | 85.63                    | 0.77                    | 0.82                 |                         | 12.88          |                    |                      |                         |                       |                       |                      |                             | 0.98             |                     |              | 1.40                         |                                    |       |
|                 |       | 74       |                        | 89.69             | 90.07                    | 0,38                    | 0,54                 | 0.55                    | 31.36          | 18,70              |                      |                         |                       |                       |                      |                             | 0.71             | 0,84                | 55.76        | 1.62                         |                                    |       |
|                 |       | 1        |                        | 101.23            | 102,80                   | 1,57                    | 0.91                 | 0,57                    | 27.89          | 15.66              | 23,86                | 27.61                   | 47.34                 | 56.16                 | 24.11                | 29.26                       | 0,30             | 0.30                | 68,72        | 1,58                         |                                    |       |
|                 |       | 25       |                        | 108.95            | 109.86                   | 0.91                    | 0.74                 | 0.71                    | 38.56          | 16.89              |                      |                         |                       |                       |                      |                             | 0,35             | 0,51                | 52,83        | 1,70                         |                                    |       |
|                 |       | 76       |                        | 118.41            | 120.25                   | 1.84                    | 0.79                 | 0.58                    | 38.86          | 15.31              | 21.72                | 27.74                   | 38.63                 | 56.37                 |                      |                             | 0.29             | 0,42                | 44.29        | 1.71                         |                                    | 1.5   |
| T94R-33C        |       | 6U       |                        | 29.42             | 30.19                    | 0.77                    | 0.87                 | 0.87                    | . 19.95        | 8.08               | 26.51                | 28.85                   | 52.67                 | 62.20                 | 27,41                | 31.77                       | 1,60             | 1.23                | 77,91        | 1,48                         |                                    |       |
|                 |       | 6Lb      |                        | 31,38             | 32.37                    | 0.99 *                  | 1.30                 | 1.06                    | 12.49          | 8.47               |                      | 27.61                   |                       | 62.86                 |                      | 31.43                       | 3.01             | 1.75                | 88.19        | 1.40 -                       |                                    |       |
|                 |       | 6La      |                        | 32,47             | 33,51                    | 1,04                    | 1,09                 | 0,95                    | 14.96          | 8,73               |                      | 27.99                   |                       | 62.33                 |                      | 31.36                       | 1.45             | 0.83                | 86.18        | 1.43                         |                                    |       |
|                 |       | 5        |                        | 33.91             | 37.03                    | 3.12                    | 0.78                 | 0.81                    | 10.40          | 6.37               | 30,03                | 30.12                   | 5B.79                 | 62.70                 | 30,26                | 32.41                       | 0,45             | 0.53                | 92.43        | 1.38                         |                                    | •     |
|                 |       | 5T       |                        | 39,12             | 39.58                    | 0,45                    | 0,95                 | 0,38                    | 29,09          | 14,33              | 25,16                | 29,23                   | 44.80                 | 56,06                 | 22,99                | 29,51                       | 1.45             | 1.49                | 57.26        | 1.59                         |                                    |       |
|                 |       | 4        | •                      | 41.93             | 43.90                    | 1.97                    | 0,88                 | 0.77                    | 7,97           | 6,61               | 29.73                | 30,38                   | 61.42                 | 62.24                 | 30.76                | 31.96                       | 0.75             | 0.65                | 96.77        | 1.35                         |                                    |       |
|                 |       | 30       |                        | 49.72             | 50,65                    | 0.93                    | 0,56                 | 0.97                    | 14.90          | 8.49               | 29.76                | 29.32                   | 54.78                 | 61.22                 | 27.99                | 31,55                       | · 1.35           | 1.07                | 82,08        | 1,43                         |                                    |       |
|                 |       | 3 Prtg   |                        | 50.65             | 51.46                    | 0.81                    |                      |                         |                |                    |                      |                         |                       |                       |                      |                             |                  |                     |              |                              |                                    |       |
|                 |       | 3L       |                        | 51.46             | 52,03                    | 0.57                    | 0,98                 | 0,49                    | 24.02          | 10.55              | 28,30                | 30,75                   | 46,70                 | 58,21                 | 25.58                | 31.08                       | 1.54             | I.19                | 68.06        | 1.53                         |                                    |       |
|                 | •     | 20       |                        | 60,33             | 66.77                    | 7.77                    | 1.01                 | 1.04                    | 12 57          | 10.16              | 36.04                | 27.05                   | 60 40                 | 60.92                 | 20 71                | 20.50                       | 0.28             |                     | 01.02        |                              |                                    |       |
|                 | 1-21  | 2•6U Стр | ,                      | 02.45             | 07.72                    | 1.21                    | 1.01                 | 1.00                    | 13.37          | 10.10              | 20,34                | 21.33                   | 30,40                 | 60,63                 | 20,71                | 20,20                       | 0,56             | 0,41                | 71,23        | 1.41                         |                                    | 2.0   |
| T94R-35C        |       | ?        |                        | 36.68             | 37.40                    | 0.72                    | 0.68                 | 1.17                    | 33.00          | 21.57              |                      | 27.48                   |                       | 49,78                 |                      | 26,66                       | 0,44             | 0.46                | 53.00        | 1,64                         |                                    |       |
|                 |       | ?        |                        | 39.50             | 40.07                    | 0.57                    | 0.73                 | 0.94                    | 25,83          | 17,24              | 26.79                | 28,96                   | 46.65                 | 52.86                 |                      | 28,66                       | 0,53             | 0.44                | 82.77        | 1.55                         |                                    |       |
|                 |       | ?        |                        | 40.52             | 40.79                    | 0.27                    | 0.58                 | 0.82                    | 32.09          | 13,48              |                      | 29,42                   |                       | 56,28                 | •                    | 29.99                       | 0.32             | 0.47                | 63.62        | 1.62                         |                                    |       |
|                 | 4-7   | c?       |                        | 43.51             | 46.63                    | 3.12                    | 0.80                 | 0.89                    | 36.08          | 11.87              | 22.97                | 27.95                   | 40.15                 | 59.29                 | 21,46                | 30,51                       | 0.23             | 0.32                | 56,89        | 1.67                         |                                    | 5.0   |
|                 |       | IUa?     |                        | 57.95             | 59.05                    | 1.09                    | 0.80                 | 0.92                    | 35,92          | 14.80              | 22.67                | 26.51                   | 40.61                 | 57.77                 | 20.95                | 29,07                       | 0,40             | 0,49                | 56,88        | 1.67                         |                                    |       |
|                 |       | 1067     |                        | 61,89             | 63,08                    | 1,19                    | 0,62                 | 1.13                    | 31.95          | 17.38              | 24,44                | 25,55                   | 42.99                 | 55,94                 | 22.33                | 27.01                       | 0.44             | 0.46                | 62.68        | 1.62                         |                                    |       |
|                 |       | 107      |                        | 63,82             | 64,43                    | 0,61                    | 0,74                 | 0.91                    | 53.41          | 18,46              |                      | 28.54                   |                       | 53.09                 |                      | 27.96                       | 0.26             | 0,58                | 19.97        | 1.91                         |                                    |       |
|                 | 15-16 | 17       |                        | 73.40             | 78.18                    | 2.72                    | 0.57                 | 0.80                    | 34.57          | 20.31              | 24.31                | 20.90                   | 40,55                 | 51,93                 | 21.46                | 27,02                       | 0.33             | 0,40                | 56.14        | 1,65                         |                                    | 4,5   |
|                 |       | ILA?     |                        | 83,52             | 83,98                    | 0.36                    | 0.70                 | 1,25                    | 39.48<br>45.86 | 11.21              | 20.82                | 28.87                   | 32.45                 | 58.67                 | 16.39                | 30.10                       | 0.30             | 0,57                | 24,55        | 1.72                         |                                    |       |
|                 |       |          |                        |                   |                          |                         |                      |                         |                |                    |                      |                         |                       |                       |                      |                             |                  |                     |              |                              |                                    |       |
| T94R-43         |       |          |                        | 33.62             | 34.91                    | 1.29                    |                      |                         |                |                    |                      |                         |                       |                       |                      |                             |                  |                     |              |                              |                                    |       |
|                 |       |          |                        | 48.83             | 49.10                    | 0,27                    |                      |                         |                |                    |                      |                         |                       |                       |                      |                             |                  |                     |              |                              |                                    |       |
|                 |       |          |                        | 49.80             | 50.25                    | 0.45                    |                      |                         |                |                    |                      |                         |                       |                       |                      |                             |                  | •                   |              |                              |                                    |       |
|                 |       |          |                        | 56,76             | 58.07                    | 1.31                    |                      |                         |                |                    |                      |                         |                       |                       |                      |                             |                  |                     |              |                              |                                    |       |
|                 |       |          |                        | 83,28             | 84.33                    | 1.05                    |                      |                         |                |                    |                      |                         |                       |                       |                      |                             | ,                |                     |              |                              |                                    |       |

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#### TELKWA PROJECT - COAL QUALITY SUMMARY

#### PIT #7 Composited seams - Raw and Washed results, reported on an A.D. basis

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| DRILL-HOLE<br>∦ | SEAM                                                 | EQM<br>MOIST'R<br>(%) | H.G.L | P<br>(%) | CL<br>, (%) | RA<br><br>Pyritle | W SULFUR<br>%<br>A.D<br>Sulfate | Organic | ¥<br>Pyr | Hile S | SULFUF<br>%<br>A.D<br>Sulfate | R FORMS<br>Organic | SIO2 | A12O3 | TiO | t Fi | e2Q3 | - MINERAL<br>CaO | ANALYSIS (<br>Mg0<br>(%) | OF A511 | 120 | K20 | <br>P2O5 | SO3 | Undet. | DRILL-HOLE<br># | SEAM                                                       | %1120 |  |
|-----------------|------------------------------------------------------|-----------------------|-------|----------|-------------|-------------------|---------------------------------|---------|----------|--------|-------------------------------|--------------------|------|-------|-----|------|------|------------------|--------------------------|---------|-----|-----|----------|-----|--------|-----------------|------------------------------------------------------------|-------|--|
| T82D-216        | 5x                                                   |                       | •     |          |             |                   |                                 |         |          |        |                               |                    |      |       |     |      |      |                  |                          |         |     |     |          |     |        | T82D-216        | 5x                                                         |       |  |
|                 | 5<br>ST/S Prig<br>ST                                 |                       |       |          |             |                   |                                 |         |          |        |                               |                    |      |       |     |      |      |                  |                          |         |     |     |          |     |        |                 | 5.00<br>5T/5 Prtg<br>5T                                    |       |  |
|                 | 4<br>3U<br>3 Prig<br>3L<br>2U                        |                       |       | ·        |             |                   |                                 |         |          |        |                               |                    |      |       |     |      |      |                  |                          |         |     |     |          |     |        |                 | 4,00<br>3U<br>3 Prig<br>3L<br>2U                           |       |  |
|                 | 2B<br>2 Prtg<br>2A                                   |                       |       |          |             |                   |                                 |         |          |        |                               |                    |      |       |     |      |      |                  |                          |         |     | •   |          |     |        |                 | 2B<br>2 Prig<br>2A                                         |       |  |
| T82D-217        | N/C                                                  |                       |       |          |             |                   |                                 |         |          |        |                               |                    |      |       |     |      |      |                  |                          |         |     |     |          |     |        | T82D-217        | N/C                                                        |       |  |
| T82D-218        | ?<br>5<br>5T/5 Prtg<br>5T<br>4<br>3U<br>3 Prtg<br>3L |                       |       |          |             |                   |                                 |         |          |        |                               |                    |      |       |     |      |      |                  |                          |         |     |     |          |     |        | T82D-218        | ?<br>5.00<br>5T/5 Prtg<br>5T<br>4.00<br>3U<br>3 Prtg<br>3L |       |  |
|                 | 2B<br>2A                                             |                       |       |          |             |                   |                                 |         |          |        |                               |                    |      |       |     |      |      |                  |                          |         |     |     |          |     |        |                 | 2B<br>2A                                                   |       |  |
| T84D-442        | 2B<br>2A                                             |                       |       |          |             |                   |                                 |         |          |        |                               |                    |      |       |     |      |      |                  |                          |         | ×   |     |          | ,   |        | -<br>T84D-442   | 2B<br>2A                                                   |       |  |

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|                 |                                                                  |                       |       |          |           | RAV     | W SULFUR            | FORMS . | W    | ASILED ( | SULFUR FO                 | ORMS    | 1    |       |          |     |       |                |                          |       |     |      |     |       |            |                                                                                      |       |      |
|-----------------|------------------------------------------------------------------|-----------------------|-------|----------|-----------|---------|---------------------|---------|------|----------|---------------------------|---------|------|-------|----------|-----|-------|----------------|--------------------------|-------|-----|------|-----|-------|------------|--------------------------------------------------------------------------------------|-------|------|
| DRILL-HOLE<br># | SEAM                                                             | EQM<br>MOIST'R<br>(%) | H.G.L | P<br>(%) | CL<br>(%) | Pyritic | %<br>A.D<br>Sulfate | Organi¢ | Pyri | ític S   | - %<br>- A.D<br>Sutfate O | Irganic | 5102 | A1203 | <br>I Ti | 102 | Fe2O3 | MINERAL<br>CaO | ANALYSIS O<br>MgO<br>(%) | F ASH | К2О | P205 | 503 | Undet | DRILL-HOLE | SEAM                                                                                 | %1120 | **C. |
| T84D-443        | G<br>F<br>D2<br>D1<br>C2<br>C1<br>B<br>A2<br>A1                  |                       |       |          |           |         |                     |         |      | •        |                           |         |      |       |          |     |       |                |                          | -     |     |      |     |       | T84D-443   | G<br>F<br>D2<br>D1<br>C2<br>C1<br>B<br>A2<br>A1                                      |       |      |
| T84D-444        | Cl<br>B<br>A2                                                    |                       |       |          |           |         |                     |         |      |          |                           |         |      |       |          |     |       |                |                          |       |     |      |     |       | T84D-444   | C1<br>B<br>A2                                                                        |       |      |
| T85D-503        | Al<br>El<br>Cl                                                   |                       |       |          |           |         |                     |         |      |          |                           |         |      |       |          |     |       |                |                          |       |     |      |     |       | T85D-503   | A1<br>E1<br>C1                                                                       |       |      |
| T85D-504        | A2<br>6U<br>6UP2<br>6LB                                          |                       |       | ·        |           |         |                     |         |      |          |                           |         |      |       |          |     |       |                |                          |       |     |      |     |       | T85D-504   | A2<br>6U<br>6UP2<br>6LB                                                              |       |      |
|                 | 6UP1<br>6LA<br>5x                                                |                       |       |          |           |         |                     |         |      |          |                           | -       |      |       |          |     |       |                |                          |       |     |      |     | •     |            | 6UPI<br>6LA<br>5x                                                                    |       |      |
|                 | 5<br>ST/5 Png<br>ST<br>4<br>3U<br>3 Png<br>3 Png<br>3 Png<br>3 L |                       |       |          |           |         |                     | ,       |      |          |                           |         |      |       |          |     |       |                |                          |       |     |      |     |       |            | 5.00<br>5T/5 Prtg<br>5T<br>4.00<br>3U<br>3 Prtg<br>3 Prtg<br>3 Prtg<br>3 Prtg<br>3 L |       |      |
|                 | 2В<br>2 Рпд<br>2А                                                |                       |       |          |           |         |                     |         |      |          |                           |         |      |       |          |     |       |                |                          |       |     |      |     |       |            | 2B<br>2 Prig<br>2A                                                                   |       |      |
| T86D-603        | 2B<br>2A                                                         |                       |       |          |           |         |                     |         |      |          |                           |         |      |       |          |     |       |                | <i></i>                  |       |     |      |     | ,     | T86D-603   | 2B<br>2A                                                                             |       |      |

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| <del></del>           |                        |                       |        |          |           | RAV     | SULFUR FORMS           | W    | ASHED 5 | ULFUR F                | FORMS   |          |       |      |       |                |                             |      |     |           |         |        |                       |                       |      |    |
|-----------------------|------------------------|-----------------------|--------|----------|-----------|---------|------------------------|------|---------|------------------------|---------|----------|-------|------|-------|----------------|-----------------------------|------|-----|-----------|---------|--------|-----------------------|-----------------------|------|----|
| DRILL-HOLE<br>#       | SEAM                   | EQM<br>MOIST'R<br>(%) | H.G.I. | Р<br>(%) | CL<br>(%) | Pyritic | A.D<br>Sulfate Organic | Pyri | itic S  | - %<br>A.D<br>ilfate ( | Organic | 5102     | A1203 | Ti02 | Fe2O3 | MINERAL<br>CaO | ANALYSIS OF /<br>Mg0<br>(%) | N#20 | K20 | P205      | SO3     | Undet. | DRILL-HOLE            | SEAM                  | %H2O | %C |
| T86D-604/<br>T89D604A | 6U                     |                       |        |          |           |         |                        |      |         |                        |         | 1        |       |      |       |                |                             | ,    |     |           | <u></u> |        | T86D-604/<br>T89D604A | 6U                    |      |    |
|                       | 5x<br>5<br>\$T/\$ Pete |                       |        |          |           |         |                        |      |         |                        |         |          |       |      |       |                |                             |      |     | <i>La</i> |         |        |                       | 5x<br>5,00            |      |    |
|                       | 5T<br>5R               | e.                    |        |          |           |         |                        |      |         |                        |         |          |       |      |       |                |                             |      |     |           |         | ·      |                       | 5175 Frig<br>5T<br>5R |      |    |
|                       | 4<br>3U<br>3 Prig      |                       |        |          |           |         |                        |      |         |                        |         |          |       |      |       |                |                             |      |     |           |         |        |                       | 4.00<br>3U<br>3 Prtg  |      |    |
|                       | 3L<br>2B               |                       |        |          |           |         |                        |      |         |                        |         | <b>`</b> |       | •    |       |                |                             |      |     |           |         |        |                       | 3L.<br>2B             |      |    |
|                       | 2A                     |                       |        |          |           | •       |                        |      |         |                        |         |          |       |      |       |                |                             |      |     |           | Ŧ       |        |                       | 2A                    |      |    |
| T89R-90] .            | G                      |                       |        |          |           |         |                        |      |         |                        |         |          |       |      |       |                |                             |      |     |           |         |        | T89R-901              | G                     |      |    |
|                       | D2<br>D1               |                       |        |          |           |         |                        |      |         |                        |         | ·        |       |      |       |                |                             |      |     |           |         |        |                       | D2<br>D1              |      |    |
|                       | C1<br>B                |                       |        |          |           |         |                        |      |         |                        |         |          |       |      |       |                | -                           |      |     |           |         |        |                       | CI<br>B               |      |    |
| T89R-902              | D2                     |                       |        |          |           |         |                        |      |         | •                      |         |          |       |      |       |                |                             |      |     |           |         | -      | T89R-902              | D2                    |      |    |
|                       | C2<br>C1               |                       |        |          |           |         |                        |      |         |                        |         |          | ×     |      |       |                |                             |      | ×   |           |         |        |                       | C2<br>C1              |      |    |
|                       | В<br>А2<br>А1          |                       |        |          |           |         |                        |      |         |                        |         |          | *     |      |       |                |                             |      |     |           |         |        |                       | В<br>А2<br>А1         | •    |    |
| T89R-903              | D2<br>D1               |                       |        |          |           |         |                        |      |         |                        |         |          | •     |      |       |                |                             |      |     |           |         |        | T89R-903              | D2<br>D1              |      |    |
|                       | C2<br>Cl<br>B          |                       |        |          |           |         |                        |      |         |                        |         |          |       |      |       |                |                             |      |     |           |         |        |                       | C2<br>Cl<br>B         |      |    |
|                       | ?<br>?                 | -                     |        |          |           |         |                        |      |         |                        |         |          |       |      |       |                |                             |      |     |           |         |        | •                     | ???                   |      |    |
|                       | AL                     |                       |        |          |           |         |                        |      |         |                        |         |          |       |      |       |                |                             |      |     |           |         |        |                       | A2                    |      |    |
|                       | •                      |                       |        |          |           |         |                        |      |         |                        |         |          |       | •    |       |                |                             |      |     |           | •       |        |                       |                       |      |    |

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|------------------------|--------------------------------------------------------------------|-----------------------|-------|----------|-----------|---------|-----------------|---------|---------|------------------------|-------|-------|------|-------|---------------------------------------------|-----------------|-----|------|---------|--------|------------------------|--------------------------------------------------------------------------------|-------|--------|
| drill-nole<br>#        | SEAM                                                               | EQM<br>MOIST'R<br>(%) | H.G.L | Р<br>(%) | CL<br>(%) | Pyrilie | A.D.<br>Sulfate | Organic | Pyritic | A.D<br>Sulfate Organic | \$i01 | A12O3 | TiQ2 | Fe2O3 | — MINERAL ANALYSIS<br>CAO Mg(<br>———— (%) — | OF ASIL<br>Nn2O | K20 | P205 | 503     | Undet. | DRILL-HOLE<br>#        | SEAM                                                                           | %1120 | ••C    |
| #<br>                  | 10<br>9<br>8U<br>8L<br>6LA<br>5x<br>5<br>5T<br>5R<br>4<br>3U<br>3L | (%)                   |       | (%)      | (%)       | Pyrtile | Sulfate         | Organic | Pyritic | Sulfate Organic        | c     |       |      |       | (%)                                         |                 |     |      |         |        | #<br>T89R-904          | 10,00<br>9,00<br>8U<br>8L<br>6LA<br>5x<br>5,00<br>5T<br>5R<br>4,00<br>3U<br>3L |       | -<br>- |
| T89R-905/<br>T89D-905A | 2B<br>2A<br>6U<br>6UP2<br>6LB<br>6UP1<br>6LA                       |                       |       |          |           |         |                 |         |         |                        |       |       |      |       |                                             | ×               |     |      |         |        | T89R-905/<br>T89D-905A | 2B<br>2A<br>6U<br>6UP2<br>6LB<br>6UP1<br>6LA                                   |       |        |
|                        | 5x<br>5<br>5T/5 Prtg<br>5T<br>4<br>3U<br>3 Prtg<br>3L<br>2U        |                       |       |          |           |         |                 |         |         |                        |       |       |      |       |                                             |                 |     |      |         |        |                        | 5x<br>5.00<br>5T/5 Prig<br>ST<br>4.00<br>3U<br>3 Prig<br>3L<br>2U              |       |        |
|                        | 2B<br>2A                                                           |                       |       |          | ·         |         |                 |         |         |                        |       | ,     |      | ~     |                                             |                 |     |      |         |        |                        | 2B<br>2A                                                                       |       |        |
|                        |                                                                    |                       |       |          |           |         |                 |         |         | ,                      |       |       |      |       |                                             |                 |     |      |         |        |                        |                                                                                |       |        |
|                        |                                                                    |                       |       |          |           |         |                 |         |         |                        |       |       |      |       |                                             |                 |     |      |         |        |                        |                                                                                | ,     |        |

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|                        |                                                             | EQM            | H.G.L | P   | CL  | RAN     | ¥ SULFUR FORMS | WASH    | ED SULFUR 1 | FORM5   |      |       | x    |       | — MINERÁL | ANALYSIS OF AS | II   |     |      |     |        |                        |                                                                 |       |    |
|------------------------|-------------------------------------------------------------|----------------|-------|-----|-----|---------|----------------|---------|-------------|---------|------|-------|------|-------|-----------|----------------|------|-----|------|-----|--------|------------------------|-----------------------------------------------------------------|-------|----|
| DRILL-ROLE<br>#        | SEAM                                                        | MOIST'R<br>(%) |       | (%) | (%) | Pyritic | A.D            | Pyritic | Sulfate     | Organic | SiO2 | A12O3 | Ti02 | Fe2O3 | , CaO     | MgO<br>(%)     | N#20 | К20 | P205 | 503 | Undet. | drill-hole<br>#        | SEAM                                                            | %1120 | %C |
| T89R-906/<br>T89D906A  | 6U<br>6UP2<br>6LB<br>6UPI<br>6LA                            |                |       |     |     |         |                |         |             |         | -    |       |      |       | •         |                |      |     |      |     |        | T89R-906/<br>T89D906A  | 6U<br>6UP2<br>6LB<br>6UP1<br>6LA                                |       |    |
|                        | 5x<br>5<br>5T/5 Prig<br>5T<br>4<br>3U<br>3 Prig<br>3L<br>2U |                |       |     |     |         |                |         |             |         |      |       |      |       |           |                |      |     |      |     |        |                        | 5x<br>5,00<br>5T/5 Png<br>5T<br>4,00<br>3U<br>3 Png<br>3L<br>2U |       |    |
|                        | 2B<br>2A                                                    |                |       |     |     |         |                |         |             |         |      |       |      |       |           |                |      |     | •    |     |        |                        | 28<br>28<br>2A                                                  |       |    |
| T89D-907/<br>T89D-907A | 5x<br>5<br>5T/5 Prtg<br>5T                                  |                |       |     |     |         |                |         |             |         |      |       |      |       |           |                |      |     |      |     |        | T89D-907/<br>T89D-907A | 5x<br>5.00<br>5T                                                |       |    |
|                        | 4<br>3U<br>3 Prig<br>3L                                     |                |       |     |     |         |                |         |             |         |      |       |      |       |           |                |      |     |      | `   |        |                        | 4.00<br>3U<br>3 Prtg<br>3L                                      |       |    |
|                        | 2B<br>2 Prig<br>2A                                          |                |       |     |     |         | •              |         |             |         |      |       |      |       |           |                |      |     |      |     |        |                        | 2B<br>2 Prtg<br>2A                                              |       |    |
| T89D-927               | ?<br>D2<br>?<br>?<br>C2<br>C1<br>?                          |                |       |     |     |         |                |         |             |         |      |       |      |       |           |                |      |     |      |     |        | T89D-927               | ?<br>D2<br>?<br>?<br>C2<br>C1<br>?                              |       |    |
|                        |                                                             |                |       |     |     | ,       |                |         | •           |         |      |       |      |       |           |                |      |     |      |     |        |                        |                                                                 |       |    |

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|                         |                                  | EOM            | ilg.i | P   | CL  | RA      | W SULFU        | R FORMS   | ۲   | WASHEI | o sulfui<br>%    | RFORMS  |   |              |       |      |       | - MINERAL A | NALYSIS OF AS | H    |     |      |     |        |                 |                                    |       |    |
|-------------------------|----------------------------------|----------------|-------|-----|-----|---------|----------------|-----------|-----|--------|------------------|---------|---|--------------|-------|------|-------|-------------|---------------|------|-----|------|-----|--------|-----------------|------------------------------------|-------|----|
| dril <b>l-hole</b><br># | SEAM                             | MOIST'R<br>(%) | 1401  | (%) | (%) | Pyritic | A.D.<br>Sulfat | c Organic | Руг | ritic  | → A.D<br>Sulfate | Organic | S | 51 <b>02</b> | A12O3 | Ti02 | Fe2O3 | Cx0         | MgO<br>(%)    | Ns20 | K20 | P205 | 503 | Undet. | DRILL-HOLE<br># | SEAM                               | %1120 | %C |
| T89D-928                | 6U<br>6UP2<br>6LB<br>6UP1<br>6LA |                |       | -   |     |         |                |           |     |        |                  | -       |   |              |       |      |       |             |               |      |     |      |     |        | T89D-928        | 6U<br>6UP2<br>6LB<br>6UP1<br>6LA   |       |    |
|                         | 5x<br>5<br>5T/5 Prtg<br>5T       |                |       |     |     |         |                |           |     |        |                  |         |   |              |       |      |       |             |               |      |     | -    |     |        |                 | 5x<br>5,00                         |       |    |
|                         | 4<br>3U<br>3 Prtg<br>3L          |                |       |     |     |         |                |           | •   |        |                  |         |   |              |       |      |       |             |               |      |     |      |     |        |                 | 31<br>4,00<br>3U<br>3 Prtg<br>3L   |       |    |
|                         | 2B<br>2A                         |                |       |     |     |         |                |           |     |        |                  |         |   |              |       |      |       |             |               |      |     |      |     |        |                 | 2B<br>2A                           |       |    |
| T89D-929                | 5<br>ST/5 Prig<br>ST             |                |       | t   |     |         | ı              |           |     |        |                  |         |   |              |       |      |       |             |               |      |     |      |     |        | T89D-929        | 5,00<br>ST/5 Prig<br>ST            |       |    |
|                         | 4                                |                |       |     |     |         |                |           |     |        |                  |         |   |              |       |      |       |             |               |      |     |      |     |        |                 | 4.00                               |       |    |
|                         | 3U<br>3 Prtg<br>3L               |                |       |     |     |         |                |           |     |        |                  |         |   |              |       |      |       |             |               | •    |     |      | z   |        |                 | 3U<br>3 Png<br>3L                  |       |    |
| •                       | 2B<br>2 Prtg<br>. 2A             |                |       |     |     |         |                |           |     |        |                  |         |   |              |       |      |       |             |               |      |     |      |     |        |                 | 2B<br>. 2 Prtg<br>2A               |       |    |
| T89D-930                | SR<br>4<br>3U<br>3 Prig<br>3L    |                |       |     |     | -       |                |           |     |        |                  |         |   |              |       |      |       |             |               |      |     |      |     |        | T89D-930        | - 5R<br>4.00<br>3U<br>3 Prtg<br>3L |       |    |
|                         | 2B<br>2A                         |                |       |     |     |         | _              |           |     |        |                  |         |   |              |       |      |       |             |               |      |     |      |     |        |                 | 2B<br>2A                           |       |    |

| ī.                |                                                      |                | •      |              |              |         |                |              |        |                  |                 |              |        |       |      |       |           |               |      |      |      |        |        |                 |                                                             |       | `     |
|-------------------|------------------------------------------------------|----------------|--------|--------------|--------------|---------|----------------|--------------|--------|------------------|-----------------|--------------|--------|-------|------|-------|-----------|---------------|------|------|------|--------|--------|-----------------|-------------------------------------------------------------|-------|-------|
| •                 |                                                      | EOM            | 11.G.L | P            | CL           | RAW     | / SULFUR<br>%  | FORMS        | WA     | SHED SU          | lfur f<br>%     | ORMS         |        |       |      |       | - MINERAL | NALYSIS OF AS | Π    |      |      |        |        |                 |                                                             |       |       |
| , DRILL-HOLE<br># | SEAM                                                 | MOIST'R<br>(%) | 1      | (%)          | (%)          | Pyritic | A.D<br>Sulfate | ,<br>Organie | Pyrial | A Sul            | .D. —<br>Iate O | Organic      | SiO2   | A1203 | TiO2 | Fe2O3 | C10       | Mg0<br>(%)    | N#20 | K20  | F205 | 503    | Undet. | DRILL-HOLE<br># | SEAM                                                        | %1120 | %C    |
| T89D-931          | 6U<br>5x<br>5<br>4<br>3U<br>3 Prig<br>3L<br>2B<br>2A |                |        |              |              |         |                |              |        |                  |                 |              |        |       |      |       |           |               |      |      |      |        |        | T89D-931        | 6U.<br>5x<br>5,00<br>4,00<br>3U<br>3 Prtg<br>3L<br>2B<br>2A |       |       |
| T92D-12           | ?                                                    |                |        |              |              |         |                |              |        |                  |                 |              |        |       |      |       |           |               |      |      |      |        |        | T92D-12         | ?                                                           |       |       |
| T92D-20           | ?                                                    |                |        |              |              |         |                |              |        |                  |                 |              |        |       |      |       |           |               | •    |      |      |        |        | T92D-20         | ?                                                           |       |       |
| •                 | 6U<br>6UP2                                           |                |        | 0,04         | 0,08         |         |                |              | 0      | .50 0            | ,06 1           | 1,01         |        |       |      |       |           |               |      |      |      |        |        |                 | 6U<br>6UP2                                                  |       |       |
|                   | 6LB<br>6LA<br>(6L)                                   |                |        | 0,10<br>0,01 | 0,08<br>0,04 |         |                |              | (      | 1,06 0<br>1,23 0 | .03 0<br>.01 0  | ),44<br>),65 |        |       |      |       |           |               |      |      |      |        |        |                 | 6LB<br>6LA<br>(6L)                                          |       |       |
|                   | 5x<br>5<br>5T/5 Prig<br>5T<br>?<br>?                 |                |        |              |              |         |                |              | •      |                  |                 |              |        |       |      | -     |           |               |      |      |      |        |        |                 | 5x<br>5.00<br>5T/5 Prtg<br>5T<br>?<br>?                     |       |       |
|                   | 4                                                    | 3,3            |        | 0.04         | 0,06         | 0.05    | 5 0,01         | 0.48         |        | 0 00.            | .01 0           | 0.48         | 52.52  | 17.37 | 1,04 | 3,35  | 11,82     | 2.82          | 0.84 | 0.13 | 1.33 | 7.07   | 1,71   |                 | 4,00                                                        | 1.61  | 77.81 |
|                   | 3U                                                   | 2,9            |        | 0,09         | 0.18         | 0,75    | f trace        | 0,87         | (      | .40 0            | .01 0           | 0,73         | \$5.52 | 23.69 | 1.52 | 8.36  | 4.45      | 0,50          | 0.62 | 0,19 | 3.05 | 1.24   | 0,85   | ;               | 3U                                                          | 1.35  | 78.20 |
|                   | 3 Phg<br>3L                                          | 2,9            |        | 0,01         | 0,01         | 1.67    | 7 0.04         | 0.41         | (      | .92 0            | .06 0           | ),68         | 54,22  | 8.51  | 0,52 | 13,71 | 8,19      | 3.90          | 0.63 | 0.12 | 0.02 | - 8,60 | 1,58   | :               | 3 Prtg<br>3L                                                | 1,32  | 72,63 |
|                   | 2B<br>2A                                             |                |        |              |              |         |                |              |        |                  |                 |              |        |       |      |       | ·         |               |      | •    |      |        |        |                 | 2B<br>2A                                                    |       |       |
|                   | 2                                                    |                |        | 0.08         | 0,10         |         |                |              | (      | 0.09             | .01 0           | 0.30         | 58.82  | 26.22 | 1.80 | 2.05  | 5.32      | 0,70          | 0,62 | 0.27 | 1,78 | 1.71   | 0,70   | • •             | 2,00                                                        | 1.83  | 74.10 |

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|                 |                   | EOM            | H.G.L | <br>Ý | CL  | RAV     | W SULFUR       | FORMS   | WAS     | Shed Su      | LFUR FOR | IMS      |      |          | <u></u> ,,  |       | - MINERAL | ANALYSIS OF A | SH   |     |      |     |        |                 |                   |       |    |
|-----------------|-------------------|----------------|-------|-------|-----|---------|----------------|---------|---------|--------------|----------|----------|------|----------|-------------|-------|-----------|---------------|------|-----|------|-----|--------|-----------------|-------------------|-------|----|
| drill-hole<br># | SEAM              | MOIST'R<br>(%) |       | (%)   | (%) | Pyritic | A.D<br>Sulfate | Organic | Pyritic | A.<br>c Sull | .D       | <br>anle | 5102 | ~~ A12O3 | <b>TiO2</b> | Fe2O3 | CaO       | MgO<br>(%)    | Na20 | K20 | P2O5 | S03 | Undet, | DRILL-HOLE<br># | SEAM              | %1120 | %C |
| T92D-22         | ?                 |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      |     |      |     |        | T92D-22         | .?                |       |    |
|                 | 5x                |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      |     |      |     |        |                 | 60<br>5х          |       |    |
|                 | ?<br>5            |                |       |       |     |         |                |         |         |              |          |          |      |          |             | •     |           |               |      |     |      |     |        |                 | ?<br>\$.00        |       |    |
|                 | ST/S Prig<br>ST   |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      | •   |      |     |        |                 | ST/S Prig<br>ST   |       |    |
|                 | 30                |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      |     |      |     |        |                 | 3U                |       |    |
|                 | 3 Prig<br>3L<br>? |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      |     |      |     |        |                 | 3 Prtg<br>3L<br>? |       |    |
|                 | 2B                |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      |     |      |     |        |                 | ar                |       |    |
|                 | 2 Prig<br>2A      |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      | •   |      |     |        |                 | 2 Prig<br>2 A     |       |    |
|                 |                   |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      |     | •    |     |        |                 |                   |       |    |
| T92R-27         | 4                 |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      |     |      |     |        | T92R-27         | 4,00              |       | ,  |
|                 | 3Ú                |                |       |       |     | _       |                |         |         |              |          | •        |      |          |             |       |           |               |      |     |      |     |        |                 | 7<br>3U           |       |    |
|                 | 3 Prig<br>3L      |                |       |       |     | •       |                |         |         |              |          |          |      |          |             |       |           |               |      |     |      |     |        | -               | 3 Prig<br>3L      |       |    |
|                 | 2U                |                |       |       | •   |         |                |         |         | •            |          |          |      |          |             |       |           |               |      |     |      |     |        |                 | 2Ú                |       |    |
|                 | 2B<br>2A          |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      |     |      |     |        |                 | 2B<br>2A          |       | ·  |
|                 |                   |                |       |       |     |         |                |         |         |              |          |          |      |          | ţ           | 5     |           |               |      |     |      |     |        |                 |                   |       |    |
| T92R-28         |                   |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      |     |      |     |        | T92R-28         |                   |       |    |
| T92R-29         | 3U<br>7 Dete      |                |       |       | •   |         |                | •       |         |              |          |          |      |          |             |       |           |               |      |     |      |     |        | T92R-29         | 3U                | -     |    |
|                 | 3 Frig<br>3L      |                |       |       |     |         |                |         |         |              |          | v        |      |          |             |       |           |               |      |     |      |     |        |                 | 3 Prig<br>3L      |       |    |
|                 | 2B                |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      |     |      |     |        |                 | 2B                |       |    |
|                 | 2A                |                | •     |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      |     |      |     |        |                 | 2A                |       |    |
|                 |                   |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      |     |      |     |        |                 |                   |       |    |
| T93D-31         | 17                |                |       |       |     |         |                |         |         |              |          |          |      | •        |             |       |           |               |      |     |      |     |        | •               |                   |       |    |
|                 | ?                 |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      |     |      |     |        |                 |                   |       |    |
|                 |                   |                |       |       |     |         |                |         |         |              |          |          |      |          |             |       |           |               |      |     |      | ,   |        |                 |                   |       | •  |

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|            |          |         | 1101  |      | ~    | , RAW   | SULFUR           | FORMS   | WASHE   | D SULFU  | JR FORMS |       |       |      |       | Marrie           |                      |      |      |          |      |        |            |         |       |  |
|------------|----------|---------|-------|------|------|---------|------------------|---------|---------|----------|----------|-------|-------|------|-------|------------------|----------------------|------|------|----------|------|--------|------------|---------|-------|--|
| DRILL-HOLE | SEAM     | MOIST'R | H.U.L | P    | CL   |         | — %-<br>— Л.D. ( |         |         | %<br>А.D |          | 5102  | AI2O3 | TiO2 | Fc2O3 | MINERAL .<br>CaO | ARALYSIS OF A<br>MgO | Na2O | K20  | <br>P2O5 | SO3  | Undet. | DRILL-HOLE | SEAM    | *4H2O |  |
| #          |          | (%)     |       | (%)  | (%)  | Pyritic | Sulfate          | Organic | Pyritic | Sulfate  | Organic  |       |       |      |       |                  | (%)                  |      |      |          | 200  |        | ₩          |         |       |  |
| F93D-38    | ?1       |         |       |      |      |         |                  |         |         |          |          |       |       |      |       |                  |                      |      |      |          |      |        | a          |         |       |  |
|            | Pring    |         |       |      |      |         |                  |         |         |          |          |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            | 72<br>73 | 2.2     |       |      | 0,09 | 0,64    | 0,02             | 0,62    |         |          |          |       |       |      |       | ٠                |                      |      |      |          |      |        |            |         |       |  |
|            | 74<br>1  | 2,6     |       |      | 0,24 | 0,06    | 0.01             | 0.24    | 0.02    | 0,01     | 0,27     |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            | 75       |         |       |      |      | 0.06    | 0.01             | 0.29    | 0.05    | 0.01     | 0.45     |       |       |      | •     |                  |                      |      |      | t        |      |        |            |         |       |  |
|            | 76       |         | 66    |      |      | 0,05    | 0,01             | 0,24    | 0,02    | 0.01     | 0.39     | 54.87 | 34.23 | 1.68 | 3.44  | 1.98             | 0.32                 | 0.15 | 0.78 | 0.99     | 0,96 | 0.60   | 1          |         | 0.71  |  |
|            |          |         |       | 0.01 | 0,04 | 0.71    | 0,06             | 0,84    | 0.25    | 0.02     | 0.96     |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            |          |         |       |      |      |         |                  |         | 0.48    | 0.03     | 1.24     |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            |          |         |       | 0,08 | 0,05 | 0,14    | 0,04             | 0.27    | 0.05    | 0.01     | 0.48     |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            |          |         |       |      | 0.06 | 0.83    | 0.01             | 0.63    | 0.49    | 0.01     | 1.00     |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            |          |         |       |      | 0.05 | 0,67    | 0,01             | 0,66    | 0,20    | 0.01     | 0.86     |       |       |      |       | -                |                      |      |      |          |      |        |            |         |       |  |
|            |          |         |       | ,    |      | 0.73    | 0,02             | 0,81    | 0,35    | 0,03     | 0.81     |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            |          |         | 65    | 0.07 | 0.05 | 0.12    | 0,01             | 0.25    | 0.03    | 0.01     | 0.38     |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            |          |         |       |      |      |         |                  |         |         |          |          |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            |          |         |       |      | 0.05 | 0.10    | 0.13             | .0.30   |         |          |          |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            |          |         |       | 0,51 | 0,05 | 0.06    | 0.01             | 0.26    |         |          |          |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
| •          |          |         | 67    |      |      | 0.00    | 0.01             | 66,0    |         |          |          |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            |          | 4,70    |       |      | 0,08 | 0.54    | 0.21             | 0.16    | 0,10    | 0,02     | 0,45     |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            |          |         |       |      |      |         |                  |         |         | ,        |          |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            |          |         |       |      |      |         |                  |         |         |          |          |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
| ·          |          |         |       |      |      |         |                  |         |         |          |          |       |       |      |       |                  |                      |      |      | 4        |      |        |            |         |       |  |
|            |          |         |       |      |      |         |                  |         |         |          |          |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
| ×          |          |         |       |      |      | -       |                  |         |         |          |          |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            |          |         |       |      |      |         |                  |         |         |          |          |       |       |      |       |                  |                      |      |      |          |      |        |            |         |       |  |
|            |          |         | 66    | 0.09 | 0.08 |         |                  |         |         |          |          | 55.19 | 22.00 | 1.31 | 6.18  | 6.35             | 1.65                 | 0.57 | 0.30 | 1.43     | 3.92 | 1.09   |            | Average | 1.36  |  |
|            |          |         | 67    | 0,51 | 0.24 |         |                  |         |         |          |          | 58,82 | 34.23 | 1.80 | 13.71 | 11.82            | 3.90                 | 0.84 | 0.78 | 3,05     | 8.60 | 1.71   |            | -       | 1.83  |  |

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A.D. - FUSION ANALYSIS OF ASIL -- ULTIMATE ANALYSIS ------ OXIDIZING ------------ REDUCING -------%н %N %ASH %S %0 Init, Soft. liemis. Fluid Hemis. Field Init. Soft. (Temp. C) ------ (%) ---

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|---------------------------------------|------------|----------|----------|----|-------|---------|--------|----------|----------------|-------|----------|-------|
|                                       | A.D.       |          |          |    |       |         |        | FUSION A | NALYSIS OF ASH |       | <u> </u> |       |
| ULTIM                                 | ATE ANALYS | IS       | <u> </u> |    |       | OXIDIZI | NG     |          |                | _     | REDUCIN  | G     |
| %1                                    | %N         | %ASH     | %5       | *0 | Ialt. | Soft.   | Hemls. | Fluid    | Init.          | Soft. | Hemis.   | Fluid |
|                                       | (%)        | <b>-</b> |          |    |       |         | •      |          | (Temp. C)      |       |          |       |
|                                       |            |          |          |    |       |         |        |          |                |       |          |       |

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A,D, --- FUSION ANALYSIS OF ASH ---------- ULTIMATE ANALYSIS ---------- OXIDIZING ------------ REDUCING ------%N %S %0 Init, Soft. Hemis. Fluid %н %ASH Init. Soft. Hemlı. Fluid - (%) -- (Temp. C) ----٠

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| A.D,              | FUSION ANALY             | SIS OF ASIL |       |         |       |
|-------------------|--------------------------|-------------|-------|---------|-------|
| ULTIMATE ANALYSIS | OXIDIZING                |             | · ••  | REDUCIN | G     |
| %H %N %ASH %5 %O  | Init. 50ft. Hemis. Fluid | Init.       | Soft. | Hemis.  | Fluid |
| (%)               | (Tem                     | p, C)       |       |         |       |

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|        | A.D.       |      |    |    |       |           |        | FUSIO | NANALYSIS OF ASH |       |          |       |
|--------|------------|------|----|----|-------|-----------|--------|-------|------------------|-------|----------|-------|
| ULTIMA | ATE ANALYS | 15   |    |    |       | - OXIDIZI | NG     |       |                  |       | REDUCING | G     |
| %H     | %N         | %ASH | %S | %0 | Init. | Soft.     | Hemis. | Fluid | Init.            | Soft. | Hemis.   | Fluid |
|        | (%)        |      |    |    |       |           |        | ·     | (Temp. C)        |       |          |       |
|        |            |      |    |    |       |           |        |       |                  |       |          |       |

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|                   | A.D, |      |    |    |       |                                             |    | ANALYSIS OF ASIL |             |          |  |  |
|-------------------|------|------|----|----|-------|---------------------------------------------|----|------------------|-------------|----------|--|--|
| ULTIMATE ANALYSIS |      |      |    |    |       | OXIDIZI                                     | NG |                  |             | REDUCING |  |  |
| <b>%</b> 11       | %N   | %ASH | %S | %0 | Init. | Init. Soft. Hemis. Fluid Init. Soft. Hemis. |    |                  |             |          |  |  |
|                   | (%)  |      |    |    |       |                                             |    |                  | - (Temp. C) |          |  |  |
|                   |      |      |    |    |       |                                             |    |                  |             |          |  |  |

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| <u></u> | A.D.       |      |    |         |       |       |          |       |           |       |        |       |  |
|---------|------------|------|----|---------|-------|-------|----------|-------|-----------|-------|--------|-------|--|
| ULTIM   | <u> </u>   |      |    | OXIDIZI | NG    |       | REDUCING |       |           |       |        |       |  |
| %н      | <b>%</b> N | %ASH | %5 | %0      | Init. | Soft. | Hemis.   | Fluid | Init.     | Soft. | Hemls. | Fluid |  |
|         | (%)        |      |    |         |       |       |          |       | (Temp. C) |       |        |       |  |

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4.28 4.55 7.37 6.92 0.54 1.14 . 1,15 7.24 0.97 6.87 4,28 0,89 13,58 1,66 5.64 4.27 1,01 11,36 0,40 7,03 1384

1410 1437 1472 1326 1368 1405 1472

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| -     | Á.D.              | x    |    |    |                                          |  |           | FUSION / | ANALYSIS OF ASIL |  |          |       |  |  |  |
|-------|-------------------|------|----|----|------------------------------------------|--|-----------|----------|------------------|--|----------|-------|--|--|--|
| ULTIM | ULTIMATE ANALYSIS |      |    |    |                                          |  | OXIDIZING |          |                  |  | REDUCING |       |  |  |  |
| %11   | %N                | %ASH | %S | %0 | lait. Soft. Hemis. Fluid Init. Soft. New |  |           |          |                  |  |          | Fluid |  |  |  |
|       | (%)               |      |    |    | (Temp. C)                                |  |           |          |                  |  |          |       |  |  |  |
|       |                   |      |    |    |                                          |  |           |          | •                |  |          |       |  |  |  |

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|                   | A,D, |      |    |    |                                |  |  | FUSION A | NALYSIS OF ASH |  | ·      |       |  |
|-------------------|------|------|----|----|--------------------------------|--|--|----------|----------------|--|--------|-------|--|
| ULTIMATE ANALYSIS |      |      |    |    | OXIDIZING                      |  |  |          | REDUCING       |  |        | ġ     |  |
| %II               | %N   | %ASH | %S | %0 | Init. Soft. Hemir. Fluid Init, |  |  |          |                |  | Hemis. | Fluid |  |
|                   | (%)  |      |    |    | ļ ,                            |  |  | •        | (Temp. C)      |  |        |       |  |

| 4.63 | 0.75 | 15.36 | 0.42 | 7.43 | 1472 | 1472 | 1472 | 1472 | 1472 | 1472 | 1472 | 1472 |
|------|------|-------|------|------|------|------|------|------|------|------|------|------|

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|---|--|

| 1302 | 1329 | 1352 | 1400 | 1252 | 1284 | 1297 | 1389 |
|------|------|------|------|------|------|------|------|
| -    |      |      |      |      |      |      |      |

| 1452+ | 1452+ | 1452+ | 1452+ | 1452+ | 1452+ | 1452+ | 1452+ |
|-------|-------|-------|-------|-------|-------|-------|-------|

|      |      |       |      | -    | •    |      |      |      |      |       | •    |      |
|------|------|-------|------|------|------|------|------|------|------|-------|------|------|
|      |      |       |      |      |      |      |      |      |      |       |      |      |
| 4,40 | 0.95 | 10.92 | 0.83 | 6.84 | 1386 | 1404 | 1420 | 1448 | 1350 | 1375  | 1391 | 1444 |
| 4,63 | 1,15 | 15,36 | 1.66 | 7,43 | 1472 | 1472 | 1472 | 1472 | 1472 | 1472  | 1472 | 1472 |
| 4.27 | 0.75 | 6.92  | 0,40 | 5.64 | 1302 | 1329 | 1352 | 1400 | 1252 | ·1284 | 1297 | 1389 |

| 1,15 | 15.36 | 1.66 | 7.43 | 1472 | 1472 | 1472 | 1472 | 1472 | 1472  | 1472 | 1472 |
|------|-------|------|------|------|------|------|------|------|-------|------|------|
| 0.75 | 6.92  | 0,40 | 5.64 | 1302 | 1329 | 1352 | 1400 | 1252 | ·1284 | 1297 | 1389 |
|      |       |      |      |      |      |      |      |      |       |      |      |
|      |       |      |      |      |      | *    |      |      |       |      |      |
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### TELKWA PROJECT - COAL QUALITY SUMMARY

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PIT #7 Composited seams - Raw and Washed results, reported on an A.D. basis

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| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DRILL-HOLE | SEAM      | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw<br>( | MOISTURE<br>Clean<br>%) | L A<br>Raw<br>(1 | SII<br>Clean<br>%) | VOLATIL<br>Raw<br>(S | E MATTER<br>Cican<br>%) | FIXED (<br>Raw<br>( | CARBON<br>Clean<br>%) | CALORIF<br>Raty<br>(ML | IC VALUE<br>Clean<br>[/kg] | SULP<br>Raw<br>(% | IIUR<br>Clean<br>;) | YIELD<br>(%) | SPE<br>GRA<br>Raw<br>(g/cc) | CIFIC<br>.VITY<br>Wshblty<br>(g/cc) | F.5.L |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|------------------------|-------------------|-------------------------|-------------------------|----------------------|-------------------------|------------------|--------------------|----------------------|-------------------------|---------------------|-----------------------|------------------------|----------------------------|-------------------|---------------------|--------------|-----------------------------|-------------------------------------|-------|
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | T82D-216   | 5x        | -                      | 19,91             | 21,05                   | 1.14                    | 1.04                 | 1,05                    | 10.61            | 6.50               | 27.92                | 29.03                   | 60.43               | 63.42                 | 30.81                  | 32.30                      |                   |                     | 90.00        | 1,38                        | 1.60                                | 2.0   |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 5         | 96                     | 21,64             | 24,74                   | 3.10                    |                      |                         |                  |                    |                      |                         |                     |                       |                        |                            |                   |                     |              |                             |                                     |       |
| 1 = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | 5T/5 Prig |                        | 24,74             | 25,07                   | 0,33                    |                      |                         |                  |                    |                      |                         |                     |                       |                        |                            |                   |                     |              |                             |                                     |       |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            | 5T        | 96                     | 25.07             | 25.56                   | 0.49<br>3.92            | 1.05                 | 1.21                    | 18.36            | 6,86               | 27,10                | 28.30                   | 53.49               | 63.63                 | 27.25                  | 32.04                      |                   |                     | 72,00        | 1.47                        | 1,60                                | 2,5   |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 4         | 77                     | 27.66             | 29.50                   | 1.84                    | 0.98                 | 1.05                    | 12.12            | 6.66               | 28.67                | 29.01                   | 58.23               | 63.28                 | 29.98                  | 32.16                      |                   |                     | 86.00        | 1 40                        | 1.60                                | 35    |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            | 3U        |                        | 34,92             | 35,82                   | 0,90                    |                      |                         |                  |                    |                      |                         |                     |                       |                        |                            |                   |                     |              |                             |                                     |       |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 3 Prtg    |                        | 35,82             | 36,12                   | 0,30                    |                      | •                       |                  |                    |                      |                         |                     |                       |                        |                            |                   |                     |              |                             |                                     |       |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 3L.       | -                      | 36.12             | 37.18                   | 1.06                    | 0.91                 | 1.11                    | 10.09            | 8.25               | 26,88                | 26,49                   | 62.12               | 64,15                 | 30,81                  | 31,51                      |                   |                     | 91.00        | 1.37                        | 1,60                                | 1.5   |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 2Ų        |                        | 46,28             | 46,86                   | 0,58                    |                      |                         |                  |                    |                      |                         |                     |                       |                        |                            |                   |                     |              |                             |                                     |       |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 2B        | 96                     | 48.17             | 49.61                   | 1.44                    |                      |                         |                  |                    |                      |                         |                     |                       |                        |                            |                   |                     |              |                             | •,                                  |       |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            | 2 Prtg    | 96                     | 49.61             | 49.85                   | 0.24                    |                      |                         |                  |                    |                      |                         |                     |                       |                        |                            |                   |                     |              |                             |                                     |       |
| TE2D-217       NC         T82D-218 $\begin{pmatrix} 7 & 95 \\ 5 & 43 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,30 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,37 \\ 48,3$ |            | 2A        | 96                     | 49,85             | 52.13                   | 3.96                    | 0.86                 | 1.38                    | 24.94            | 10.01              | 24.43                | 27.38                   | 49.77               | 61,23                 | 25.47                  | 31.06                      |                   |                     | 66.00        | 1.54                        | 1.60                                | 3.0   |
| TB2D-217       N/C         TB2D-218 $\hat{7}$ 95       35.15       35.72       0.57       0.87       1.01       20.60       13.95       23.89       25.71       54.64       59.33       26.82       29.38       71.00       1.49       1.60       1.0         5       43       45.94       48.37       2.43       0.91       0.95       9.03       5.91       25.77       27.69       64.29       65.44       31.11       32.25       50.00       1.50       1.60       2.0         5T/5       45.95       45.95       1.21       -       -       1.60       2.5       -       31.11       32.25       50.00       1.50       1.60       2.5         3U       95       59.95       61.32       1.74       0.74       0.77       10.15       8.41       27.98       26.33       30.67       31.68       89.00       1.38       1.60       2.5         3U       95       59.95       61.32       62.08       0.76       10.58       8.36       26.88       27.31       61.36       27.65       30.93       73.00       1.47       1.60       2.5         2B       100       74.48       76.01 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |           |                        |                   |                         |                         | •                    |                         |                  |                    |                      |                         |                     |                       |                        |                            |                   |                     |              |                             |                                     |       |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | T82D-217   | N/C       |                        |                   |                         | ٠                       |                      |                         |                  |                    |                      |                         |                     |                       |                        |                            |                   |                     |              |                             |                                     |       |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | T82D-218   | 2         | 95                     | 35.15             | 35.72                   | 0.57                    | 0.87                 | 1.01                    | 20.60            | 13.95              | 23.89                | 25.71                   | 54.64               | 39.33                 | 26 82                  | 29 38                      |                   |                     | 71.00        | 1 49                        | 1.60                                | 10    |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 5         | 43                     | 45.94             | 48.37                   | 2.43                    | 0.91                 | 0.95                    | 9.03             | 5.91               | 25.77                | 27.69                   | 64,29               | 65,44                 | 31.11                  | 32.25                      |                   |                     | 90.00        | 1.36                        | 1.60                                | 2.0   |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            | 5T/5 Prtg |                        | 48.37             | 49,58                   | 1.21                    |                      |                         |                  |                    |                      |                         |                     |                       |                        |                            |                   |                     |              |                             |                                     |       |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 5T        |                        | 49.58             | 50,08                   | 0,50                    | 0,73                 | 0.69                    | 21,00            | 12,29              | 26.84                | 30.38                   | 51.43               | 56.64                 | 26.70                  | 30,35                      |                   |                     | 68,00        | 1,50                        | 1,60                                | 6,5   |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 4         | 80                     | \$2.82            | 54.56                   | 1.74                    | 0.74                 | 0.77                    | 10.15            | 8.41               | 27.98                | 28.53                   | 61,13               | 62,29                 | 30.77                  | 31.51                      |                   |                     | 91.00        | 1.37                        | 1.60                                | 2.5   |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 3U        | 95                     | 59.93             | 61.32                   | 1,39                    | 0,75                 | 0.96                    | 10,58            | 8,36               | 26,88                | 27.31                   | 61,79               | 63,37                 | 30.87                  | 31.68                      |                   |                     | 89.00        | 1,38                        | 1,60                                | 2.0   |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | 3 Prtg    | ~                      | 61.32             | 62.08                   | 0.76                    |                      | 6 <b>7</b> 9            |                  |                    |                      |                         |                     |                       |                        |                            |                   |                     |              |                             |                                     |       |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ×          | 31.       | 95                     | 62.08             | 62.66                   | * 0.58                  | 0.65                 | 0.63                    | 19.05            | 10.72              | 26.00                | 27.29                   | 54,30               | 61,36                 | 27.65                  | 30.93                      |                   |                     | 73.00        | 1.47                        | 1.60                                | 3.5   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |            | 2B        | 100                    | 72,48             | 74.22                   | 1,74                    |                      |                         |                  |                    |                      |                         |                     |                       |                        |                            |                   |                     |              |                             |                                     |       |
| 100     3.53     0.65     1.03     16.97     9.53     25.57     26.41     56.81     63.03     28.21     31.08     76.00     1.45     1.60     2.5       T84D-442     2B     75     12.83     13.85     1.02       ZA     13.85     15.32     1.47       2A     13.85     1.05     2.46     21.57     12.29     26.26     58.99     29.59     0.60     0.57     78.70     1.50     1.70     -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            | 2A        | 100                    | 74.22             | 76.01                   | 1.79                    |                      |                         |                  |                    |                      |                         |                     |                       |                        |                            |                   |                     |              |                             |                                     |       |
| T84D-442 2B 75 12.83 13.85 1.02<br>2A 13.85 15.32 <u>1.47</u><br>2.49 1.05 2.46 21.57 12.29 26.26 58.99 29.59 0.60 0.57 78.70 1.50 1.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |           | 100                    |                   |                         | 3,53                    | 0.65                 | 1.03                    | 16.97            | 9.53               | 25.57                | 26,41                   | 56,81               | 63.03                 | 28.21                  | 31.08                      |                   |                     | 76.00        | 1.45                        | 1.60                                | 2.5   |
| 2A 13.85 15.32 1.47<br>2A 2.49 1.05 2.46 21.57 12.29 26.26 58.99 29.59 0.60 0.57 78.70 1.50 1.70 -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 78412-442  | 219       | 75                     | 12 83             | 13.85                   | 1 07                    |                      |                         |                  | -                  |                      |                         |                     | ,                     | ,                      |                            |                   |                     |              |                             |                                     |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1040-442   | 20<br>2A  | 12                     | 14.85             | 15.02                   | 1.02                    |                      |                         |                  |                    |                      |                         |                     |                       |                        |                            |                   |                     |              |                             |                                     |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |            |           |                        |                   |                         | 2,49                    | 1.05                 | 2.46                    | 21,57            | 12.29              |                      | 26.26                   |                     | 58.99                 |                        | 29.59                      | 0.60              | 0.52                | 78,70        | 1.50                        | 1.70                                | -     |

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|------------|-----------|-----------------|--------|---------|----------|-------|----------|---------|-------|-----------|-----------|-----------------|------------|-------|-------|------------|---------|-------|
| DRILL-HOLE | SEAM      | REC'VRY         | From   | To      | THICKN'S | Raw   | Clean    | Raw     | Clean | Raw Clean | Raw Clean | Raw Citan       | SUL<br>Raw | Clean | YIELD | GR/<br>Raw | Webblev | F.S.L |
| #          |           | (%)             | (      | (m)     | (m)      | (3    | (6)      | (       | %)    | (%)       | (%)       | (MJ/kg)         |            | (%)   | (%)   | (g/cc)     | (g/ce)  |       |
| T84D-443   | G         | 64              | 13,83  | 15,01   | 1,18     | 0.70  | 1.52     | 18,58   | 13.67 | 26,80     | 58.01     | 29.71           | 2,39       | 1,94  | 88.21 | 1,47       | . 1.70  | -     |
|            | F         | 92              | 34.04  | 34.84   | 0.80     | 0.54  | 1,26     | 26.87   | 17.44 | 28.12     | 53,18     | 28,60           | 3,73       | 1.64  | 74.64 | 1,56       | 1.70    |       |
|            | D2        | 100             | 49.36  | 50,00   | 0.64     | 0,75  | 1,67     | 39,45   | 20,96 | 24,15     | \$3.33 .  | 26.85           | 0.37       | 0.51  | 53,29 | 1,72       | 1,70    | -     |
|            | Dl        | 100             | 50,68  | 51.39   | 0.71     | 0.85  | 1.59     | 37.57   | 17.35 | 26.36     | 54.70     | 28,20           | 2.32       | 0.76  | 58,45 | 1,69       | 1.70    | -     |
|            | C2        | 84              | 53,60  | 54,44   | 0,84     | 0,80  | 1.93     | 42,03   | 20,46 | 24.37     | 53.24     | 27.12           | 0.53       | 0.62  | 53,91 | 1.75       | 1,70    | •     |
|            | Cì        | 100             | 55.28  | 56.45   | 1,17     | 0,81  | 1.68     | 30,18   | 17.55 | 25.29     | 55.48     | 28.02           | 1,43       | 0.68  | 70,78 | 1,60       | 1,70    | -     |
|            | в         | 100             | 66.50  | 67.30   | 0.80     | 0.88  | 2.30     | 32.45   | 19.70 | 24.13     | 53,87     | 17.92           | 0,35       | 0,40  | 68.77 | 1,63       | 1.70    | -     |
|            | A2        | 100             | 87,16  | 88.50   | 1.34     | 0.50  | 2.50     | 37.98   | 19,82 | 25.92     | 51.76     | 26.84           | 0.49       | 0.59  | 56,13 | 1.70       | 1,70    | •     |
|            | Al        | 94              | 90,16  | 91,92   | 1,76     | 0.74  | 1.52     | 51,35   | 24.32 | 24.18     | 49.98     | 25.08           | 0,32       | 0,55  | 29.71 | 1.88       | 1,70    | -     |
| T84D-444   | Cl        | 54              | 67,47  | 68.84   | 1.37     | 0.90  | 1.73     | 26.21   | 15.51 | 25.09     | 57.67     | 28.74           | 0.48       | 0.55  | 77,83 | 1,56       | 1,70    | -     |
|            | в         | 43              | 76.92  | 77.34   | 0.42     | 0.72  | 1.54     | 29.94   | 21.06 | 24.97     | 52,43     | 26,68           | 0,43       | 0,37  | 77.86 | 1.60       | 1.70    | -     |
|            |           | 75              | 87.04  | 87.48   | 0,44     | 0,76  | 1.43     | 40.26   | 23,46 | 23,41     | 51,70     | 25.72           | 0.25       | 0.34  | 50,72 | 1.73       | 1,70    |       |
|            |           | 49              | 98,65  | 99.04   | 0.39     | 0,88  | 1.53     | · 18,46 | 14.75 | 29.24     | 54.48     | 29,18           | 0,40       | 0,36  | 93,49 | 1,47       | 1,70    |       |
|            | A2        | 66              | 99.88  | 101.46  | 1.58     | 0.90  | 1.81     | 37.89   | 22.47 | 28.17     | 47,55     | 25,92           | 0,35       | 0,46  | 57.23 | 1.70       | 1.70    | -     |
|            | Al        | 77              | 106.72 | 109.44  | 2.72     | 0.79  | 1.06     | 43.53   | 26,27 | 25.94     | 46.73     | 24.51           | 3.23       | 1.78  | 47.18 | 1.77       | 1.70    | •     |
| T85D-503   | El        | 100             | 19.17  | 20.06   | 0.89     | 0,46  | 0.67     | 18,74   | 11,56 | 30,01     | . 57,76   | 30.90           | 1.82       | 1.82  | 83.80 | 1.47       | 1.60    | 5,0   |
|            | C1        | 58              | 30.02  | 31.60   | 1.58     | 0,67  | 0,51     | 27,54   | 17,19 | 30,12     | 52,18     | 29.17           | 2.47       | 1.48  | 68.23 | 1,57       | 1,60    | 4.5   |
|            | A2        | 57              | 50,80  | 53,08   | 2,28     | 0.56  | 0.83     | 38.74   | 17.15 | 28.49     | 53.53     | 28.36           | 0.37       | 0,46  | 49.96 | 1.71       | 1,60    | 4.0   |
| 7          |           |                 |        |         |          |       |          | •       |       |           |           |                 |            |       |       |            |         |       |
| T85D-504   | 6U        |                 | 13.84  | 15,39   | 1,55     |       |          |         |       |           |           |                 |            |       |       |            |         |       |
|            | 6UP2      |                 | 15.39  | 15.78   | 0.39     |       |          |         |       | *         |           |                 |            |       |       |            |         |       |
|            | 61.0      |                 | 15.78  | 16.24   | 0,40     |       |          |         |       |           |           |                 |            |       |       |            | •       |       |
|            | ET A      |                 | 16.24  | 10,40   | 0.22     |       |          |         |       |           |           |                 |            |       |       |            |         | •     |
|            | OLA       | 99              | 10,40  | - 17.19 | 3.35     | 0.70  | 0.85     | 28,19   | 8.03  | 31,80     | 59.32 ·   | 31,64           | 2.17       | 1.36  | 67.09 | 1.58       | 1.60    | 3.5   |
|            | 5x        | 100             | 20.10  | 21.30   | 1,20     | 0,43  | 0.78     | 13.82   | 8.23  | 29.60     | 61.39     | 31.93           | 2.63       | 0.99  | 90.99 | 1.42       | 1.60    | 3.5   |
|            | 5         | 100             | 22.62  | 26.92   | 4.30     | 0.74  | 0.69     | 13,03   | 7.11  | 29,61     | 62,59     | - 32.31         | 1.36       | 0.79  | 88.20 | 1.41       | 1.60    | 2.5   |
|            | 5T/5 Prtg | 96 <sup>-</sup> | 26,92  | 27,62   | 0,70     | 1.30  | 0.42     | 82.10   | 27,70 | 27.66     | 44.22     | 24.58           | 2.19       |       | 1.81  | 2.46       |         |       |
|            | 5T        | 85              | 27,62  | 28,44 . | 0,82     | 1.12  | 0.74     | 24.87   | 15.56 | 30.10     | 53.60     | 29.06           | 1,35       | 1.10  | 71.62 | 1,54       | 1,60    |       |
|            | 4         | 95              | 30.04  | 32.14   | 2.10     | 1.04  | 0,70     | 11.90   | 6,90  | 31,13     | 61,27     | 32.56           | 1,11       | 0.77  | 88.51 | 1.39       | 1.60    | 4.0   |
|            | 3U        | 100             | 38,32  | 39.29   | 0,97     | 0,80  | 0,54     | 13,02   | 8,59  | 29,68     | 61.19     | 32.02           | 1.61       | 1.20  | 89.27 | 1.41       | 1,60    | 2.0   |
|            | 3 Prtg    |                 | 39.29  | 39.80   | 0.51     |       |          |         |       |           |           |                 |            |       |       |            |         |       |
|            | 3 Prtg    |                 | 39,80  | 40.16   | 0.36     | 0.73  | 0,73     | 17.54   | 12,87 | 25,98     | 60.42     | 30.14           | 3.46       | 1.68  | 81.74 | 1.46       | 1.60    |       |
|            | 3 Prtg    |                 | 40.16  | 40.52   | 0,36     |       |          |         |       |           |           |                 |            |       |       |            |         |       |
|            | 3L        | 100             | 40.52  | 41.24   | 0.72     | 0.94  | 0.48     | 17.25   | 10.15 | 28.61     | 60.76     | 31.37           | 1,59       | 1.01  | 82.04 | 1.45       | 1.60    | 2.0   |
|            | 2B        | 100             | 51,80  | 53,30   | 1.50     |       |          |         |       |           |           |                 |            |       |       |            |         |       |
|            | 2 Prtg    | 100             | 53.30  | 53.53   | 0.23     |       |          |         |       |           |           |                 |            |       |       |            | •       |       |
|            | 2A        | 100             | 53.53  | 55.72   | 2.19     | 1.04  | 0.84     | 72 64   | 10.03 | 20.17     | 50.04     | 20.71           | 0.95       | 0.62  | 75.14 | 1.64       | 1.60    | 70    |
| T86D-603   | · 2P      |                 | 22.60  | 74 28   | 1.68     | 1.04  | 0.04     | 40.04   | 10.33 | 27,17     | 00,50     | 50,71           | 0,62       | 0,02  | 12.14 | 1,52       | 1.00    | 3.0   |
| 1001-003   | 2Å        |                 | 24.28  | 26.35   | 2.07     |       |          |         |       |           |           |                 |            |       |       |            |         |       |
| ·          | #1 L      |                 | ,<br>, |         | 3,75     | 1,83  | 1.64     | 14.30   | 9.06  | 27.07     | 62,23     | 31.21           | 0.59       | 0.56  | 86.66 | 1.42       | 1.60    |       |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|-----------------|-----------|-------------------|------------------|-----------------|-------------------|----------|-------------|------------------------------|---------------------------|------------------------------|-----------------|-----------------|------------|------------------|--------|
| -         (v)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OLE | SEAM      | SEAM<br>REC'VRY | DRILLED S | EAM INT'RVL<br>To | SEAM<br>THICKN'S | RESIDUAL<br>Raw | MOISTURE<br>Clean | A<br>Raw | SH<br>Clean | VOLATILE MATTER<br>Raw Clean | FIXED CARBON<br>Ran Clean | CALORIFIC VALUE<br>Rat Clean | SULPHU<br>Raw C | R YIELD<br>lean | GR.<br>Raw | Witty<br>Withity | F.S.I. |
| THEN-404<br>TOPODAN         60         44         55.41         27.12         1.71         1.23         1.61         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.14         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13         1.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |           | (74)            |           |                   | ()               |                 | ,•;               |          | 70)         | (70)                         | (78)                      | (117)48)                     | (74)            | (%)             | (Livec)    | (g/cc)           |        |
| 100         2147         2140         0.56         1.15         1.24         21.16         12.34         21.01         6.0.42         30.20         2.24         2.18         6.57           5         97         33.40         31.55         1.56         1.37         1.44         27.80         25.60         25.61         30.76         1.20         0.65         65.77           375         97         33.40         35.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     | 6U        | 84              | 25,41     | 27.12             | 1,71             | 1,28            | 1.61              | 12,17    | 6,70        | 29.02                        | 62.27                     | 31,76                        | 2,67 1,         | .57 85,96       | 1,40       | 1,60             |        |
| 100       29.0       1.55       1.56       1.57       1.46       29.03       25.82       60.36       30.76       1.10       0.65       65.57         57       79       33.00       0.64       0.62       0.64       1.62       22.04       16.00       23.05       1.10       0.65       65.57         57       94       30.0       0.43       1.22       1.24       1.62       22.48       57.53       27.89       1.00       1.01       0.24       0.42       0.23       72.44       1.01       1.04       0.02       0.24       0.27       22.17       0.51       31.14       0.22       0.24       0.23       0.24       0.23       72.44       0.22       31.18       0.22       0.3       72.44       0.27       72.44       0.21       72.44       0.22       1.24       0.24       0.21       12.14       0.24       12.17       12.14       0.22       12.14       0.21       12.14       0.24       12.17       12.14       0.21       12.14       0.21       12.14       0.21       12.14       0.21       12.14       0.21       12.14       0.21       12.14       0.21       12.17       12.14       0.21       12.15       12.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |           | 100             | . 27.87   | 28.43             | 0.56             | 1.15            | 1.24              | 31.87    | 11.24       | 27.10                        | 60.42                     | 30,20                        | 2,41 2,         | .18 60.98       | 1.62       |                  |        |
| 3         97         33.0         35.5         1.56         1.27         1.44         27.13         8.88         26.60         62.58         20.76         1.51         0.63         65.57           575         94         30.66         36.64         0.62         0.84         1.62         24.43         57.55         27.89         1.10         1.36         6.01         22         3.94.4         4.02         0.33         31.44         0.02         0.33         31.44         0.02         0.33         31.44         0.02         0.33         31.44         0.02         0.33         31.44         0.02         0.33         31.44         0.02         0.33         31.44         0.02         0.33         31.44         0.02         0.33         31.44         0.02         0.33         31.44         0.02         0.33         31.44         0.02         0.33         31.44         0.02         0.37         28.40         64.33         35.35         32.44         0.43         0.76         77.7         28.30         62.37         31.21         0.44         0.77         92         1.64         77.74         0.76         77.7         28.31         62.57         31.21         0.54         64.59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     | 5x        | 100             | 29,40     | 31,36             | 1,96             | 1,52            | 1,31 `            | 14.59    | 9,63        | 25,82                        | 63.24                     | 30.73                        | 1.30 1,         | 15 86.75        | 1,42       | 1,60             |        |
| 198         100         101         000         0.60         0.62         0.64         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.62         0.84         0.63         0.84         0.63         0.84         0.63         0.84         0.63         0.84         0.84         0.87         0.84         0.84         0.84         0.87         0.84         0.84         0.83         0.84         0.83         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.84         0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     | 5         | 97              | 33.80     | 35,36             | 1.56             | 1.37            | 1.84              | 27.83    | 8.98        | 26.60                        | 62.58                     | 30.76                        | · 1.91 0.       | .65 65.57       | 1,57       | 1.60             |        |
| 57     94     56.6     66.6     0.62     0.64     1.62     24.83     57.3     27.9     1.00     1.53     9.44       4     100     47.36     40.24     1.55     1.12     1.14     9.97     28.44     64.31     32.244     0.04     0.22     91.27       310     100     55.05     55.81     1.12     1.14     9.97     28.40     62.21     31.18     23.1     2.24     0.04     0.72     91.27       100     100     55.05     55.81     1.12     1.14     9.97     28.40     62.21     31.18     23.1     2.24     0.04     0.72     91.77       100     100     55.05     55.81     1.12     1.14     1.07     10.67     28.41     69.00     1.01     2.2     1.64     7.74       110     100     55.05     55.81     1.07     1.07     10.76     10.76     1.64     1.07     1.14     1.09     26.51     62.57     51.21     0.54     27.57       120     61.81     52.07     0.22     1.54     66.9     0.30     1.54     62.97     1.21     0.54     25.59       120     61.81     65.97     0.76     57.6     1.54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     | ST/S Prtg |                 | 35,36     | 36.06             |                  |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| 37.       100       40.49       4.2.4       1.45       1.26       1.41       9.67       7.77       27.71       63.31       31.44       6.23       0.30       91.44         4       100       45.36       45.31       1.22       1.14       9.47       5.47       22.44       64.75       32.44       64.75       32.44       64.75       32.44       64.75       32.44       64.75       32.44       64.75       32.44       64.75       32.44       64.75       32.44       64.75       32.44       64.75       32.44       64.75       52.74       32.65       31.18       23.25       13.7       85.40         32.       100       55.81       56.31       1.12       1.14       1.04       15.45       92.651       62.27       31.01       22.2       1.64       77.74         23.       64.92       64.90       1.57       1.44       1.64       15.45       9.85       26.51       62.57       31.21       0.64       82.99         189.       64.01       6.73       7.75       0.75       0.75       0.75       0.75       0.75       0.75       0.75       0.75       0.76       0.75       0.76       0.77       0.77       <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     | 5T        | 94              | 36.06     | 36.68             | 0.62             | 0,84            | 1,62              | 28,24    | 16.02       | 24.83                        | 57.53                     | 27.89                        | 1,80 1,         | .36 64,01       | 1.58       | 1,60             |        |
| 4       100       47.36       67.35       1.22       1.14       1.09       167.0       29.77       26.69       62.22       31.4       2.34       0.24       0.27       91.27         310       55.05       55.1       55.3       55.1       55.3       56.0       31.01       2.21       1.64       77.74         20       100       55.01       56.3       0.43       1.07       0.22       17.75       10.67       28.61       55.00       31.01       2.21       1.64       77.74         21       100       55.01       56.30       1.57       56.00       1.01       2.21       1.64       77.74         22.0       64.90       63.90       1.57       57.58       1.647       1.54       59.80       26.51       62.57       31.21       0.54       6.54       54.59         1598-501       G       47.00       1.76       0.76       0.76       1.57       1.21       0.51       62.57       31.21       0.54       54.59         1598-501       G       47.00       1.77       0.22       1.77       1.21       0.51       55.5       55.55       55.55       55.55       55.55       55.55       55.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     | 5R.       | 100             | 40.49     | 42.34             | 1.85             | 1.36            | 1.41              | 9.63     | 7.57        | 27.71                        | 63,31                     | 31,84                        | 0,52 0,         | .53 94.24       | 1.37       | 1.60             |        |
| 3U         100         53.64         1.12         1.4         1.00         1670         9.97         26.80         62.21         31.18         2.33         1.57         86.40           3L         100         55.81         55.23         0.42         1.07         0.02         17.75         10.67         28.61         59.00         31.01         2.23         1.4         77.74           2B         2C         64.92         64.92         1.57         0.67         28.61         59.00         31.01         2.23         1.4         77.74           2B         2C         64.92         64.92         1.57         0.67         28.61         62.57         31.21         0.54         54.59           789         61         1.81         2.30         0.76         55.81         62.07         0.22         54.59         54.59         54.59         55.51         62.57         31.21         0.54         54.59         55.51         62.57         31.21         0.54         54.59           189R-902         C1         61.85         62.07         0.22         64.99         57.23         0.64         55.59         55.51         55.59         55.59         55.59         55.59 </td <td></td> <td>4</td> <td>100</td> <td>47.36</td> <td>49.28</td> <td>1.92</td> <td>1.24</td> <td>1.14</td> <td>9.47</td> <td>5.67</td> <td>28,44</td> <td>64.75</td> <td>32.44</td> <td>0.84 0.</td> <td>.72 91.27</td> <td>1,37</td> <td>1,60</td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                        |     | 4         | 100             | 47.36     | 49.28             | 1.92             | 1.24            | 1.14              | 9.47     | 5.67        | 28,44                        | 64.75                     | 32.44                        | 0.84 0.         | .72 91.27       | 1,37       | 1,60             |        |
| 3 Prog<br>3 L       100       55.05<br>55.05       55.01<br>55.01       55.01<br>55.01       55.01<br>55.01       55.01<br>55.01       55.01<br>55.01       55.01<br>52.01       55.01<br>52.01 <th< td=""><td></td><td>3U</td><td>100</td><td>53,93</td><td>55,05</td><td>1,12</td><td>1,14</td><td>1,00</td><td>16,70</td><td>9.97</td><td>26.80</td><td>62.23</td><td>31,18</td><td>2,33 1.</td><td>.37 86,40</td><td>1.45</td><td>1.60</td><td></td></th<> |     | 3U        | 100             | 53,93     | 55,05             | 1,12             | 1,14            | 1,00              | 16,70    | 9.97        | 26.80                        | 62.23                     | 31,18                        | 2,33 1.         | .37 86,40       | 1.45       | 1.60             |        |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | 3 Prtg    |                 | \$5.05    | 55.81             |                  |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     | 3L        | 100             | 55,81     | 56.23             | 0,42             | 1.07            | 0,92              | 17,75    | 10,67       | 28.61                        | 59,80                     | 31.01                        | 2.23 1,         | .64 77,74       | 1.46       | 1.60             |        |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |           |                 |           |                   |                  |                 |                   |          |             |                              |                           |                              | •               |                 |            |                  |        |
| $2\Lambda$ $66.9$ $82.0$ $1.81$ $3.38$ $1.40$ $15.45$ $9.89$ $26.51$ $62.57$ $31.21$ $0.54$ $0.54$ $84.59$ T89R-901       G $47.00$ $47.67$ $0.76$ $0.76$ $0.22$ D2 $81.17$ $81.78$ $0.64$ $0.22$ $0.22$ $0.23$ $0.47$ $0.22$ $0.22$ $0.23$ $0.63$ $0.47$ $0.22$ $0.40$ $0.47$ $0.22$ $0.80$ $0.47$ $0.22$ $0.80$ $0.47$ $0.22$ $0.80$ $0.47$ $0.22$ $0.80$ $0.47$ $0.22$ $0.80$ $0.47$ $0.22$ $0.80$ $0.47$ $0.22$ $0.80$ $0.47$ $0.22$ $0.80$ $0.47$ $0.48$ $0.83$ $0.22$ $0.80$ $0.47$ $0.22$ $0.80$ $0.80$ $0.80$ $0.80$ $0.80$ $0.80$ $0.80$ $0.80$ $0.81$ $0.87$ $0.81$ $0.87$ $0.81$ $0.81$ $0.81$ $0.81$ $0.81$ $0.81$ $0.81$ $0.81$ $0.81$ $0.81$ $0.81$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     | 2B        |                 | 64.92     | 66.49             | 1.57             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| 99     5.38     1.40     1.04     15.45     9.88     26.51     62.57     31.21     0.54     0.54     84.59       T39R-301     G     47.00     47.76     0.76     0.76     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7     7 <td></td> <td>2A</td> <td></td> <td>66.49</td> <td>68.30</td> <td>1,81</td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     | 2A        |                 | 66.49     | 68.30             | 1,81             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| TB9R-901         G         47.00         47.76         0.76           P2         81.85         62.07         0.22           D2         81.17         81.78         0.61           C2         84.00         84.00         0.47           C2         84.00         84.00         0.47           C2         84.00         84.00         0.93           B         95.54         97.23         0.69           V         V         V         V           TB9R-902         D2         18.57         19.14         0.51           C2         2.03         21.45         0.45           C2         2.03         21.45         0.45           C2         2.03         21.45         0.45           C3         2.25         0.45           C4         48.47         9.05           A2         48.47         9.05           C1         2.658         57.15           C2         0.616         60.77           C1         62.58         57.35           D1         55.85         57.15           C2         60.16         60.77           C1         62.58 <td></td> <td></td> <td>99</td> <td></td> <td></td> <td>3,38</td> <td>1.40</td> <td>1.04</td> <td>15.45</td> <td>9.88</td> <td>26.51</td> <td>62.57</td> <td>31.21</td> <td>0,54 0,</td> <td>.54 84,59</td> <td>1,43</td> <td>1.60</td> <td>r</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |           | 99              |           |                   | 3,38             | 1.40            | 1.04              | 15.45    | 9.88        | 26.51                        | 62.57                     | 31.21                        | 0,54 0,         | .54 84,59       | 1,43       | 1.60             | r      |
| F         61.85         62.07         0.22           D2         81.17         81.78         0.61           D1         82.08         83.07         0.47           C2         84.00         84.60         0.69           C1         85.11         86.44         0.69           R         92.33         0.69           R         92.33         0.59           R         92.33         0.59           R         92.33         0.59           R         92.03         21.54         0.45           C2         22.93         23.54         0.61           C1         24.05         24.85         0.61           C1         24.05         24.84         0.80           A2         48.47         50.57         210           A1         53.47         5.07         0.59           T89R-903         D2         54.54         55.74         1.20           D1         56.88         57.15         0.27           C2         60.16         60.77         0.61           C1         62.88         65.33         0.59           B         70.72         71.82 <td< td=""><td></td><td>G</td><td></td><td>47.00</td><td>47.76</td><td>0.76</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     | G         |                 | 47.00     | 47.76             | 0.76             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| D2         81,17         81,78         0.61           D1         82.60         83.07         0.47           C2         84.00         0.60         0.60           C1         85.11         86.04         0.53           B         95.02         10         2.208         2.208           D2         18.57         19.14         0.57           D1         20.80         21.25         0.45           C2         24.03         24.34         0.63           D2         21.25         0.61           C1         24.05         24.88           A2         44.7         0.57           D1         53.47         0.51           D2         21.52         0.45           C2         22.93         23.54           A2         44.7         0.57           D1         55.85         57.4           D1         55.85         57.15           B         70.72         71.82 <td></td> <td>F</td> <td></td> <td>61.85</td> <td>62.07</td> <td>. 0.22</td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | F         |                 | 61.85     | 62.07             | . 0.22           |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| D1         82,00         83,07         0,47           C2         84,00         84,60         0,60           C1         85,11         86,40         0,93           B         96,54         97,23         0,69           J         7         19,4         0,57           D1         20,60         21,25         0,45           C2         23,93         23,54         0,61           C1         20,80         21,25         0,45           C2         23,93         23,54         0,61           C1         20,80         21,25         0,45           A2         44,47         50,57         0,93           T89R-902         D2         53,54         0,80           A2         44,47         50,57         0,93           T89R-903         D2         54,54         5,74         1,20           D1         56,88         57,15         0,27           C2         60,16         60,77         60,16           C1         62,58         63,53         0,95           B         70,22         71,82         1,10           7         78,49         75,56         1,07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     | D2        |                 | 81.17     | 81.78             | 0.61             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| C2       64.00       84.60       0.60         C1       85.11       86.64       0.93         D2       18.57       19.14       0.57         D1       20.80       21.25       0.45         C2       22.39       23.4       0.61         C1       24.05       24.88       0.83         B       39.20       40.00       0.80         A1       53.47       54.40       0.93         T89R-903       D2       54.54       57.4         D1       56.88       57.15       0.27         C2       61.6       60.7       0.61         C3       65.44       50.57       210         A2       48.47       50.57       210         A1       53.47       54.40       0.93         T89R-903       D2       54.44       55.74       1.20         D1       56.88       57.15       0.27         C2       61.6       60.77       6.61         C1       62.58       63.53       0.95         B       70.72       71.82       1.10         7       78.49       79.55       1.07         7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     | DI        |                 | 82,60     | 83.07             | 0.47             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| Cl<br>B       85.11       86.04       0.93         789R-902       D2       18.57       19.14       0.57         D1       20.80       21.25       0.45         C2       22.93       23.54       0.61         C1       24.05       24.88       0.61         C1       24.05       24.88       0.63         A2       48.47       50.57       2.10         A1       53.47       54.40       0.93         T89R-903       D2       54.54       57.74         D1       56.88       57.15       0.27         C2       60.16       60.77       0.61         C1       62.58       63.53       0.95         B       70.72       7.182       1.10         7       7.84       7.95.56       1.07         7       7.84       7.95.56       1.07         7       7.84       7.95.56       1.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |     | C2        |                 | 84,00     | 84.60             | 0,60             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| B         96.54         97.23         0.69           T89R-902         D2         18.57         19.14         0.57           D1         20.80         21.25         0.45           C2         22.93         23.54         0.61           C1         24.05         24.88         0.83           B         39.20         40.00         0.80           A2         48.47         50.57         2.10           A1         53.47         5.74         1.20           D1         56.88         57.15         0.27           C2         60.16         60.77         0.61           C1         62.58         63.33         0.95           B         70.7         78.89         79.55           A1         57.45         1.00           7         78.49         79.56           A2         89.65         0.97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     | Cl        |                 | 85.11     | 86.04             | 0.93             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| T89R-902       D2       18.57       19.14       0.57         D1       20.80       21.25       0.45         C2       22.93       23.54       0.61         C1       24.05       24.88       0.83         B       39.20       40.00       0.80         A2       48.47       50.57       2.10         A1       53.47       54.40       0.93         T89R-903       D2       54.54       55.74       1.20         D1       56.88       57.15       0.27         C2       60.16       60.77       0.61         C1       62.88       53.3       0.95         C1       62.88       63.53       0.95         C1       62.88       63.53       0.95         C2       60.16       60.77       0.61         C1       62.88       53.53       0.95         C2       60.16       60.77       0.61         C1       62.88       63.53       0.97         7       72.88       74.95       2.07         7       78.49       79.55       1.07         7       78.49       99.56       1.07                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     | B         |                 | 96,54     | 97.23             | 0.69             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| T89R-902       D2       18.57       19.14       0.57         D1       20.80       21.25       0.45         C2       22.93       23.54       0.61         C1       24.05       24.88       0.83         B       39.20       40.00       0.80         A2       43.47       50.57       2.10         A1       53.47       54.40       0.93         T89R-903       D2       54.54       55.74       1.20         D1       56.88       57.15       0.27         C2       60.16       60.77       0.61         C1       62.58       63.53       0.95         B       70.72       71.82       1.10         ?       72.88       74.95       2.07         ?       78.49       79.56       1.07         A2       80.4       89.96       0.97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     | •         |                 |           |                   |                  |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| D1       20.80       21.25       0.45         C2       22.93       23.54       0.61         C1       24.05       24.88       0.83         B       39.20       40.00       0.80         A2       48.47       50.57       2.10         A1       53.47       54.40       0.93         T89R-903       D2       54.54       55.74       1.20         D1       56.88       57.15       0.27         C2       60.16       60.77       0.61         C1       62.58       63.33       0.95         B       70.72       71.82       1.10         7       72.88       74.95       2.07         7       78.49       79.56       1.07         A2       80.40       899.5       0.97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     | D2        |                 | 18.57     | 19.14             | 0.57             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | DI        |                 | 20,80     | 21,25             | 0.45             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| Cl24.0524.880.83B39.2040.000.80A248.4750.572.10A153.4754.400.93T89R-903D254.5455.741.20D156.8857.150.27C260.1660.770.61C162.5863.530.95B70.7271.821.10772.8874.952.07778.4979.561.07A289.0489.060.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     | C2        |                 | 22.93     | 23,54             | 0,61             |                 |                   |          |             |                              | -                         |                              |                 |                 |            |                  |        |
| B       39.20       40.00       0.80         A2       48.47       50.57       2.10         A1       53.47       54.40       0.93         T89R-903       D2       54.54       55.74       1.20         D1       56.88       57.15       0.27         C2       60.16       60.77       0.61         C1       62.58       63.53       0.95         B       70.72       71.82       1.10         ?       72.88       74.95       2.07         ?       78.49       79.56       1.07         A2       89.04       89.65       0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     | CI        |                 | · 24.05   | 24.88             | 0.83             |                 |                   |          |             |                              | <b>`</b>                  |                              |                 |                 |            |                  |        |
| A2       48,47       50,57       2,10         A1       53,47       54,40       0,93         T89R-903       D2       54,54       55,74       1,20         D1       56,88       57,15       0,27         C2       60,16       60,77       0,61         C1       62,58       63,53       0,95         B       70,72       71,82       1,10         ?       72,88       74,95       2,07         ?       78,49       79,56       1,07         A2       89,64       89,65       0,92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     | В         |                 | 39,20     | 40.00             | 0.80             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| Al       53.47       54.40       0.93         T89R-903       D2       54.54       55.74       1.20         D1       56.88       57.15       0.27         C2       60.16       60.77       0.61         C1       62.58       63.53       0.95         B       70.72       71.82       1.10         7       72.88       74.95       2.07         7       78.49       79.56       1.07         A2       89.04       89.65       0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     | A2        |                 | 48,47     | 50,57             | 2,10             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| T89R-903       D2       54,54       55,74       1,20         D1       56.88       57.15       0.27         C2       60.16       60.77       0.61         C1       62,58       63,53       0.95         B       70.72       71.82       1.10         ?       72.88       74.95       2.07         ?       78.49       79.56       1.07         A2       89.04       89.65       0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     | Al        | -               | 53.47     | 54.40             | 0.93             |                 |                   |          |             |                              |                           |                              |                 |                 | •          |                  |        |
| D1       56.88       57.15       0.27         C2       60.16       60.77       0.61         C1       62.58       63.53       0.95         B       70.72       71.82       1.10         ?       72.88       74.95       2.07         ?       78.49       79.56       1.07         A2       89.04       89.65       0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     | D2        |                 | 54,54     | 55,74             | 1.20             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| C2       60,16       60,77       0,61         C1       62,58       63,53       0.95         B       70,72       71.82       1.10         ?       72.88       74,95       2.07         ?       78,49       79,56       1.07         A2       89.04       89.96       0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •   | Dl        |                 | 56.88     | 57.15             | 0.27             |                 |                   | -        |             |                              |                           | •                            |                 |                 |            |                  |        |
| C1       62,58       63,53       0,95         B       70,72       71.82       1.10         ?       72.88       74,95       2.07         ?       78.49       79.56       1.07         A2       89.04       89.96       0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     | C2        |                 | 60,16     | 60,77             | 0.61             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| B         70,72         71.82         1.10           ?         72.88         74.95         2.07           ?         78.49         79.56         1.07           A2         89.04         89.96         0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     | Cl        |                 | 62,58     | 63,53             | 0.95             |                 |                   |          |             | /                            |                           |                              |                 |                 |            |                  |        |
| ?     72.88     74.95     2.07       ?     78.49     79.56     1.07       A2     89.04     89.95     0.92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | в         |                 | 70.72     | 71.82             | 1.10             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| 7 78.49 79.56 1.07<br>A2 89.04 89.95 0.97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     | 1         |                 | 72.88     | 74,95             | 2.07             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
| A2 89.04 89.96 0.97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     | ?         |                 | 78.49     | 79.56             | 1.07             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     | A2        |                 | 89,04     | 89,96             | 0,92             |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |           |                 |           |                   |                  |                 |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |           |                 |           |                   |                  | •               |                   |          |             |                              |                           |                              |                 |                 |            |                  |        |

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| BRILL-HOLE<br># | SEAM      | SEAM<br>REC'VRY<br>(%) | DRILLED SEA<br>From<br>(m) | M INT'RVL<br>To | SEAM<br>THICKN'5<br>(m) | RESIDUAL MOISTURE<br>Raw Cican<br>(%) | ASII<br>Raw - Clean<br>(%) | VOLATILE MATTER<br>Raw Cican<br>(%) | FIXED CARBON<br>Raw Cican<br>(%) | CALORIFIC VALUE<br>Raw Cican<br>(MJ/kg) | SULPHUR<br>Raw Cican<br>(%) | YIELD<br>(%) | GRAVITY<br>Raw Wsh<br>(g/cc) (g/cc | F.S.L<br>bity<br>:) |
|-----------------|-----------|------------------------|----------------------------|-----------------|-------------------------|---------------------------------------|----------------------------|-------------------------------------|----------------------------------|-----------------------------------------|-----------------------------|--------------|------------------------------------|---------------------|
| ¥9R-904         | 10        |                        | 13.95                      | 15.00           | 1.05                    |                                       |                            |                                     | · · ·                            |                                         |                             |              |                                    |                     |
|                 | 9         |                        | 20.03                      | 21.05           | 1.02                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 8U        |                        | 23.95                      | 24,25           | 0.30                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 8L        |                        | 25.52                      | 26.37           | 0.85                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 6LA       |                        | 50,84                      | 51,23           | 0,39                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 5x        |                        | 51,84                      | 52,83           | 0,99                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 5         |                        | 55.35                      | 57.42           | 2.07                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 5T        |                        | 58,18                      | 59,12           | 0,94                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 5R        |                        | 63,24                      | 65,38           | 2,14                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 4         |                        | 68.12                      | 69.64           | 1.52                    |                                       |                            |                                     |                                  | •                                       |                             |              |                                    |                     |
|                 | 30        |                        | 74,80                      | 70,21           | 1.35                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 3L.       |                        | 76,21                      | 77.90           | 0.52                    |                                       |                            |                                     |                                  |                                         |                             | •            |                                    |                     |
|                 | 2B        |                        | 88,52                      | 90.13           | 1.61                    |                                       |                            |                                     |                                  |                                         |                             | ,            | •                                  |                     |
|                 | 2A        |                        | 90.13                      | 92.11           | 1.98                    |                                       |                            |                                     |                                  |                                         |                             | •            | •                                  |                     |
| 9R-905/         | ស         |                        | 19.03                      | 20.67           | 1.64                    |                                       |                            |                                     |                                  | •                                       |                             |              |                                    |                     |
| 9D-905A         | 6UP2      |                        | 20.67                      | 21.05           | 0.38                    |                                       |                            |                                     |                                  | -                                       |                             | •            |                                    |                     |
|                 | 6LB       |                        | 21.05                      | 21.62           | 0,57                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 6UP1      |                        | 21.62                      | 21.80           | 0,18                    |                                       |                            |                                     |                                  |                                         |                             | •            |                                    |                     |
|                 | 6LA       |                        | 21,80                      | 22,55           | 0.75<br>3.52            |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | Śv        |                        | 24 10                      | 25.65           | 1.55                    |                                       |                            | • •                                 |                                  |                                         |                             |              |                                    |                     |
|                 | 5         |                        | 26.17                      | 29.17           | 3.00                    | -                                     |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 5T/5 Prtg |                        | 29.17                      | 30.53           | 1.36                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 5T        |                        | 30.53                      | 31.17           | 0,64                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 4         |                        | 32,72                      | 34.91           | 2.19                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
| •               | 3U        |                        | 41.57                      | 42.53           | 0,96                    |                                       |                            |                                     |                                  | •                                       |                             |              |                                    |                     |
|                 | 3 Prtg    |                        |                            |                 |                         |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
| •               | 3L        |                        | 42.99                      | 43.26           | 0.27                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 2U        |                        | 54.44                      | 54.52           | 0.08                    |                                       |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 2B        |                        | 55.62                      | 57.59           | 1.97                    | ;                                     |                            |                                     |                                  |                                         |                             |              |                                    |                     |
|                 | 2A        |                        | 57.59                      | 59.53           | 1,94<br>3,91            | •                                     |                            |                                     |                                  |                                         |                             |              |                                    |                     |

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| DRILL-HOLE<br># | SEAM      | SEAM<br>REC'VRY<br>(%) | DRILLED \$<br>From<br>( | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw<br>(9 | MOISTURE<br>Clean<br>6) | A<br>Raw<br>( | 5H<br>Clean<br>%) | VOLATILE MATTER<br>Ray Clean<br>(%) | FIXED CARBON<br>Raw Clean<br>(%) | CALORIFIC VALUE<br>Ram Clean<br>(MIJ/kg) | SULPH<br>Raw<br>(%) | UR<br>Clean | VIELD<br>(%) | SPE<br>GRA<br>Raw<br>(g/cc) | CIFIC<br>VITY<br>Wahbity<br>(g/cc) | F.S.I. |
|-----------------|-----------|------------------------|-------------------------|-------------------------|-------------------------|-----------------------|-------------------------|---------------|-------------------|-------------------------------------|----------------------------------|------------------------------------------|---------------------|-------------|--------------|-----------------------------|------------------------------------|--------|
|                 | · · ·     |                        |                         |                         |                         |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
| T89R-906/       | GU        |                        | 34,32                   | 35,87                   | 1.55                    | •                     |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
| T89D906A        | 6UP2      |                        | 35.87                   | 36.32                   | 0.45                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | 6LB       |                        | 36,32                   | 36,61                   | 0,29                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | 6UP1      |                        | 36.61                   | 36.75                   | 0.14                    |                       |                         |               |                   | •                                   |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | 6LA       |                        | 36,75                   | 36,90                   | 0.15                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | -         |                        |                         | 70.00                   | 2.58                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | 5x        |                        | 37.52                   | 38.22                   | 0.70                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | CT/C Date |                        | 11.40                   | 41.49                   | 2.63                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | 51/5 Fng  |                        | 41.49                   | 44.72                   | 1.43                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | 51        |                        | 42.72                   | 43.20                   | 1.24                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | 11        |                        | 57.07                   | 54 78                   | 136                     |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | 3 Prior   |                        | 54 78                   | 54.96                   | 0.68                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | 3L        |                        | 54,96                   | 55.49                   | 0.53                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | 20        |                        | 62,62                   | 63,00                   | 0.38                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | 2B        |                        | 65,09                   | 66,62                   | 1.53                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | 2A        |                        | 66,62                   | 68,33                   | <u>1.71</u><br>3.24     |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
| T89D-907/       | 5x        | 100                    | 22.56                   | 23,74                   | 1,18                    | 0,97                  | 1.65                    | 12,80         | 7.21              | 32.25                               | 58.89                            | 31.86                                    | 2,68                | 1.38        | 93,50        | 1,40                        | 1,60                               | 2,0    |
| T89D-907A       | 5         | 95                     | 24.45                   | 27.56                   | 3.11                    | 0.95                  | 1.88                    | 7.86          | 5.78              | 30,45                               | 61,89                            | 32.42                                    | 0,58                | 0,54        | 95.10        | 1.35                        | 1.60                               | 2.5    |
|                 | 5T/5 Prtg |                        | 27.56                   | 27.96                   | 0,40                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | 5T        | 94                     | 27.96                   | 28,78                   | 0.82                    | 0,92                  |                         | - 22,45       |                   |                                     |                                  |                                          | 0.88                |             |              | 1.51                        | 1.60                               |        |
|                 | 4         | 100                    | 31.09                   | 33,22                   | 2.13                    | 0.68                  | 1.42                    | 12.16         | 7.26              | 31.21                               | 60.11 .                          | 31.71                                    | 0.75                | 0,60        | 90,30        | 1,40                        | 1,60                               | 2.5    |
|                 | 3U        | 100                    | 38.49                   | 39.48                   | 0,99                    | 1.17                  | 0,73                    | 23.83         | 8,39              |                                     |                                  |                                          | 2.02                | 1.17        | 81.30        | 1.53                        | 1.60                               |        |
|                 | 3 Prig    |                        | 39,48                   | 39,64                   | 0,16                    | 0,83                  |                         | 72.24         |                   |                                     |                                  |                                          | 3,49                |             |              | 2.24                        |                                    |        |
|                 | 3L. '     | 100                    | 39.64                   | 40.82                   | 1.18                    | 0.96                  |                         | 15.44         |                   |                                     |                                  |                                          | 0,71                |             |              | 1.43                        | 1.60                               |        |
|                 |           |                        |                         |                         | 2.33                    | 0,84                  | 1.87                    | 17.42         | 8.78              | 28,14                               | 60.11                            | 31.28                                    | 1.29                | 0.76        | 81.60        | 1,46                        | 1.60                               | 1.0    |
|                 | 2B        |                        | 51.96                   | 53.10                   | 1.14                    |                       |                         | 28.47         |                   |                                     |                                  |                                          | 1,36                |             |              | 1.58                        |                                    |        |
|                 | 2 Prtg    |                        | 53.10                   | 53.42                   | 0.32                    |                       |                         | 83.91         |                   |                                     |                                  |                                          | 0.17                |             |              | 2.51                        |                                    |        |
|                 | 2A        |                        | 53,42                   | 55.54                   | 2.12                    |                       |                         | 19,34         |                   |                                     |                                  |                                          | 1.73                |             |              | 1.48                        |                                    |        |
|                 |           | 94                     |                         |                         | 3.58                    | 0.83                  | 1.25                    | 27.33         | 11.36             | 29,01                               | 58,38                            | 30,31                                    | 1.30                | 1,05        | 65,90        | 1.57                        | 1.60                               | 2.0    |
| T89D-927        | ?         |                        | 33,15                   | 33,40                   | 0,25                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | D2        | 87                     | 35,24                   | 35.96                   | 0.72                    | 2.33                  |                         | 21.14         |                   |                                     |                                  |                                          | 1.63                |             |              | 1,50                        | 1.60                               |        |
|                 | ?         |                        | 42.52                   | 43.07                   | 0.55                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | ?         | 85                     | 43.37                   | 43,72                   | 0.35                    | 2.36                  |                         | 38.03         |                   | •                                   |                                  | •                                        | 1.24                |             |              | 1,70                        | 1,60                               |        |
|                 | C2        |                        | 44,66                   | 45,69                   | 1.03                    | 3.31                  |                         | 37.37         |                   |                                     |                                  |                                          | 0,27                |             |              | 1,69                        | 1,60                               |        |
|                 | CI        |                        | 47.68                   | 48.37                   | 0,69                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |
|                 | 7         |                        | 51.48                   | 52.00                   | 0.52                    |                       |                         |               |                   |                                     |                                  |                                          |                     |             |              |                             |                                    |        |

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| DRILL-HOLE ' .    | SEAM      | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From | EAM INT'RVL<br>To<br>(m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw<br>( | MOISTURE<br>Clean<br>%) | A<br>Raw<br>(* | SH<br>Clean<br>%) | VOLATILE MATTER<br>Raw Citan .<br>(%) | FIXED CARBON<br>Raw Cican<br>(%) | CALORIFIC VALUE<br>Raw Cican<br>(MJ/kg) | SUL<br>Ratt<br>( | PHUR<br>Clean<br>%) | YIELD<br>(%) | SPI<br>GR<br>Raw<br>(g/cc) | CIFIC<br>AVITY<br>Wabbity<br>(g/cc) | F.S.L |
|-------------------|-----------|------------------------|-------------------|--------------------------|-------------------------|----------------------|-------------------------|----------------|-------------------|---------------------------------------|----------------------------------|-----------------------------------------|------------------|---------------------|--------------|----------------------------|-------------------------------------|-------|
| T89D.928          | 611       |                        | 19.28             | 21.00                    | 1 72                    |                      |                         | 16 17          |                   | ,                                     |                                  |                                         | 2 56             |                     |              | 1.44                       |                                     |       |
|                   | 6UP2      |                        | 21.00             | 21.55                    | 0.55                    |                      |                         | 10,17,         |                   |                                       |                                  |                                         | 2.20             |                     |              | 1,44                       |                                     |       |
|                   | 6LB       |                        | 21,55             | 22.12                    | 0,57                    | 0,55                 |                         | 19,69          |                   |                                       |                                  |                                         | 2.73             |                     |              | 1.48                       |                                     |       |
|                   | 6UP1      |                        | 22,12             | 22,36                    | 0.24                    | 0.53                 |                         | 77.64          |                   |                                       |                                  |                                         | 6,00             |                     |              | 2,36                       |                                     |       |
|                   | 6LA       |                        | 22.36             | 23.08                    | 0.72                    | 0.67                 |                         | 13,80          |                   |                                       |                                  |                                         | 2,93             |                     |              | 1.41                       |                                     |       |
|                   |           |                        |                   |                          | 3,80                    | 0,64                 | 1,45                    | 29,89          | 7,51              | 30,62                                 | 60.42                            | 31.60                                   | 2.77             | 1.36                | 75,30        | 1.60                       | 1,60                                |       |
|                   | 5x        | 84                     | 26,77             | 27.76                    | 0,99                    | 0,34                 | 2,15                    | 21.70          | 9,23              | 29,45                                 | 59,17                            | 31,27                                   | 2.73             | 1.65                | 76.50        | 1.50                       | I.60                                |       |
|                   | 5         |                        | 28,43             | 31,79                    | 3,36                    | 1,06                 | 1.55                    | 11.90          | 5.85              | 30.10                                 | 62.50                            | 32.19                                   | 0.47             | 0.47                | 89,70        | 1.39                       | 1.60                                |       |
|                   | ST/S Prtg |                        | 31.79             | 32.88                    | 1.09                    |                      |                         |                |                   |                                       | •                                |                                         |                  |                     |              |                            |                                     |       |
| •                 | 5T        | 82                     | 32,88             | 33.92                    | 1,04                    | 0,95                 | 1.70                    | 25,86          | 14,73             | 28,36                                 | 55,21                            | 29.32                                   | 1.76             | 0.97                | 71.80        | 1.55                       | 1.60                                |       |
|                   | 4         | 92                     | 35,80             | 38,80                    | 3,00                    | 1.02                 | 1.65                    | 12.54          | 7.15              | 30.74                                 | 60.46                            | 31.82                                   | 0,66             | 0.58                | 90,10        | 1.40                       | 1.60                                |       |
|                   | 3Ú        | 100                    | 45.88             | 47.57                    | 1.69                    | 0.98                 | 1.51 -                  | 27.95          | 9.94              | 27.35                                 | 61,20                            | 30,82                                   | 1,60             | 1,18                | 62,80        | - 1.58                     | 1.60                                | 2.0   |
|                   | 3 Prtg    |                        | 47.57             | 48,00                    | 0,43                    |                      |                         | 89,76          |                   |                                       |                                  |                                         | 0.48             |                     |              | 2.66                       |                                     |       |
|                   | 3L.       | 97                     | 48,00             | 48,84                    | 0,84                    | 1,15                 | 1.51                    | 11.88          | 9.01              | 28.52                                 | 60.96                            | 31.25                                   | 1,32             | 1,11                | 93,50        | 1.39                       | 1,60                                |       |
|                   | 2B        |                        | 60,52             | 62.24                    | 1,72                    |                      |                         |                |                   |                                       |                                  |                                         |                  |                     |              |                            |                                     |       |
|                   | 2A        |                        | 62.24             | 64.12                    | 1,88                    |                      |                         |                |                   |                                       |                                  |                                         |                  |                     |              |                            |                                     |       |
|                   |           | 94                     |                   |                          | 3.60                    | 0.97                 | 2.30                    | 17.29          | 10.85             | 28.45                                 | 58.40                            | 30,19                                   | 0,90             | 0.64                | 82.40        | 1,45                       | 1,60                                | 1,5   |
| T89D-929          | 5         | 94                     | 14.10             | 17.26                    | 3.16                    | . 0.77               | 2,11                    | 8,20           | 6,18              | 29,30                                 | 62.41                            | 31.98                                   | 0.68             | 0.61                | 95.44        | 1.35                       | 1,60                                | 1.5   |
|                   | ST/S Prtg |                        | 17.26             | 17,53                    | 0,27                    | 0,75                 |                         | 80,28          |                   |                                       |                                  |                                         | 2.76             |                     |              | 2,42                       |                                     |       |
|                   | 5T        | 94                     | 17.53             | 18.36                    | 0.83                    | 0.73                 | 1.24                    | 19.53          | 13.15             | 29.22                                 | 56,39                            | 29,86                                   | 1,33             | 1,08                | . 82         | 1,48                       | 1,60                                | 3.5   |
|                   |           |                        |                   |                          | 4.26                    | 0,76                 | 2,85                    | 14.95          | 7,83              | 29,71                                 | 59,61                            |                                         | 0.94             | 0.67                | 83.30        | 1.43                       | 1.60                                |       |
|                   | 4         | 100                    | 19.46             | .21.62                   | 2.16                    | 0.92                 | 1.76                    | 10.32          | 7.92              | 30,37                                 | \$ 59.95                         |                                         | 1.41             | 0,82                | 93.70        | 1,38                       | 1,60                                | 2,5   |
|                   | 3U        | 100                    | 27.66             | 28.64                    | 0.98                    | 0,79                 | 1,28                    | 17,48          | 9,08              | 28.57                                 | 61.07                            | 31.43                                   | 1.70             | 1.28                | 90.31        | 1.46                       | 1.60                                | 1.0   |
|                   | 3 Prig    |                        | 28,64             | 28.91                    | 0.27                    | 1.08                 |                         | 85.91          |                   |                                       |                                  |                                         | 1.47             |                     |              | 2.56                       |                                     |       |
| •                 | 3L        | 100                    | 28.91             | 30.24                    | 1.33 *                  | 0.90                 | 2.35                    | 20,30          | 11,5              | 26,86                                 | 59,29                            | 30,07                                   | 1,10             | 0.92                | 77.62        | 1.49                       | 1.60                                | 1.0   |
|                   |           |                        |                   |                          | 2.58                    | 0.88                 | 1.69                    | 26,09          | 10,60             | 27,85                                 | 59,86                            | 30.58                                   | 1.37             | 1.09                | 70.00        | 1.55                       | 1.60                                |       |
|                   | 2B        | 100                    | 41.10             | 42.62                    | · 1.52                  | 0.91                 | 1.46                    | 24,07          | 13,78             | 28,34                                 | 56,42                            | 29,63                                   | 1,30             | 0.89                | 73.00        | 1.53                       | 1.60                                | 2.0   |
|                   | 2 Prtg    |                        | 42,62             | 43.37                    | 0,75                    |                      |                         | 89,50          |                   | •                                     |                                  |                                         | 0.29             |                     |              | 2.65                       |                                     |       |
|                   | 2A        | 100                    | 43.37             | 45.76                    | <u>2.39</u><br>4,66     | 0.80                 | 1.81                    | 15.00          | 10.35             | 28.66                                 | 59.18                            | 30.27                                   | 0.61             | 0,56                | 87,10        | 1.43                       | 1.60                                | 1.0   |
| T\$0D.030         | 512       | 72                     | 10 0/             | 41 30                    | 136                     | 0.75                 | 0.00                    | 56.09          | 12 21             | 20.10                                 | 56.70                            | 20.91                                   | 1.47             | 1.61                | 77 60        | 1.04                       | 1.60                                | 40    |
| 10 <i>71-73</i> 0 | 4         | 84                     | 43.73             | 44.92                    | 1.19                    | 0.70                 | 1.46                    | 28.00          | 8.27              | 29.34                                 | 60.93                            | 31 24                                   | 1,47             | 0.80                | 66 50        | 1.95                       | 1.00                                | 4.0   |
|                   | 3U        | 96                     | 54.09             | 55.24                    | 1.15                    | 0.99                 | 1.70                    | 28.67          | 9.61              | 25.56                                 | 63.13                            | 31.05                                   | 2.33             | 1.79                | 69 20        | 1.58                       | 1.60                                | 2.0   |
|                   | 3 Prtg    |                        | 55,24             | 56,29                    | 1.05                    |                      |                         | ,-1            |                   |                                       |                                  | ,                                       |                  |                     | -7,89        | 1,00                       |                                     |       |
|                   | 3L        | 89                     | 56,29             | 56.87                    | 0.58                    | 0.73                 | 1.28                    | 40.31          | 12.35             | 27.03                                 | 59.34                            | 30,30                                   | 1.79             | 1.30                | 79.20        | 1.73                       | 1.60                                | 2,0   |
|                   | 2B        |                        | 63,33             | 64,91                    | 1,58                    |                      |                         |                |                   |                                       |                                  |                                         |                  |                     |              |                            |                                     |       |
|                   | 2A        |                        | 64.91             | 66.63                    | 1.72                    |                      |                         |                |                   |                                       |                                  |                                         |                  |                     |              |                            |                                     |       |
|                   |           | 100                    |                   |                          | 3,30                    | 1,10                 | 2.21                    | 18,76          | 9,51              | 27,60                                 | 60.68                            | 30.69                                   | 0.40             | 0.41                | 83.50        | 1.47                       | 1.60                                | 1.5   |

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| DRILL-HOLE<br># | SEAM      | SEAM<br>REC'VRY<br>(%) | DRILLED SP<br>From<br>(n | EAM INT'RVL<br>To<br>") | SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw<br>(9 | MOISTURE<br>Clean<br>%) | Al<br>Raw<br>(1 | SH<br>Clean<br>%) | VOLATIL<br>Raw<br>(* | E MATTER<br>Clcan<br>%) | FIXED (<br>Raw | CARBON<br>Clean<br>%) | CALORIFIC<br>Raw<br>(MJA | : VALUE<br>Clean<br>g) | SULI<br>Raw<br>(1 | PHUR<br>Clean<br>%) | YIELD<br>(%) | SPEC<br>GRA<br>Raw<br>(g/cc) | CIFIC<br>VITY<br>Wshblty<br>(g/cc) | F.S.L |
|-----------------|-----------|------------------------|--------------------------|-------------------------|-------------------------|-----------------------|-------------------------|-----------------|-------------------|----------------------|-------------------------|----------------|-----------------------|--------------------------|------------------------|-------------------|---------------------|--------------|------------------------------|------------------------------------|-------|
|                 | x         |                        |                          |                         |                         |                       |                         |                 |                   |                      |                         |                |                       |                          |                        |                   |                     |              | -                            |                                    |       |
| T89D-931        | 6U        | 73                     | 35,11                    | 35,85                   | 0,74                    | 0,69                  | 0,97                    | 20,79           | 13.79             |                      | 29,10                   |                | 56.14                 |                          | 29.38                  | 0.77              | 0.82                | 81,00        | 1,49                         | 1,60                               | 0,5   |
|                 | 5x        | 100                    | 40.03                    | 42.33                   | 2.30                    | 0.78                  | 1.10                    | 13.74           | 7.28              |                      | 30.67                   |                | 60,95                 |                          | 31.78                  | 0,90              | 0.70                | 84.30        | 1.41                         | 1.60                               | 4.0   |
|                 | 5         |                        | 43,04                    | 45,63                   | 2,59                    | 0,95                  | 1,16                    | 9,91            | 6,52              |                      | 30,82                   |                | 61,50                 |                          | 32.09                  | 0.51              | 0.53                | 92,50        | 1.37                         | 1,60                               | 3,5   |
|                 | 4         | 100                    | 54,37                    | 56,12                   | 1.75                    | 0,97                  | 1.83                    | 13.23           | 8.31              |                      | 27.56                   |                | 62.30                 |                          | 31,46                  | 1,69              | 0,50                | 89,90        | 1,41                         | 1,60                               | 1.5   |
|                 | 3U        | 100                    | 64.64                    | 66,17                   | 1,53                    | 1,06                  | 1.13                    | 19.73           | 9.78              |                      | 28,38                   |                | 60.71                 |                          | 30,81                  | 1.58              | 1.01                | 77.80        | 1.48                         | 1.60                               | 1,5   |
|                 | 3 Prtg    |                        | 66.17                    | 67,20                   | 1,03                    | 1.21                  |                         | 86.69           |                   |                      |                         |                |                       |                          |                        | 1,72              |                     |              | 2,58                         |                                    |       |
|                 | 3L        |                        | 67.20                    | 67.78                   | 0.58                    | . 0.81                | 0.89                    | 20.61           | 11.13             |                      | 29.75                   |                | 58.23                 |                          | 30,66                  | 1.80              | 1.55                | 76.40        | 1.49                         | 1.60                               | 1.5   |
|                 | 2B        |                        | 78.74                    | 80,59                   | 1,85                    |                       |                         |                 |                   |                      |                         |                |                       |                          |                        |                   |                     |              |                              |                                    |       |
|                 | 2A        |                        | 80.59                    | 82.34                   | 1.75                    |                       |                         |                 |                   |                      |                         |                |                       |                          |                        |                   |                     |              |                              |                                    |       |
|                 |           | 96                     |                          |                         | 3,60                    | 0,82                  | 1.28                    | 16,93           | 11,10             |                      | 28.39                   |                | 59,23                 |                          | 30.53                  | 0.79              | 0.99                | 81.20        | 1,45                         | 1,60                               | 2,5   |
| T92D-12         | ?         | 100                    | 99.00                    | 99.23                   | 0.23                    |                       |                         |                 |                   |                      |                         |                |                       |                          |                        |                   |                     |              |                              |                                    |       |
| T92D-20         | ?         | 56                     | 12.85                    | 13.03                   | 0.18                    |                       |                         |                 |                   |                      |                         |                |                       |                          |                        |                   |                     |              |                              |                                    |       |
|                 | 6U        | 83                     | 13,70                    | 14.81                   | 1.11                    | 0.72                  | 1.73                    | 11.23           | 8.79              |                      | 25.41                   |                | 64.07                 |                          | 31,50                  | 1.88              | 1.57                | 95.73        | 1.39                         | 1.60                               |       |
|                 | 6UP2      |                        | 14.81                    | 15.71                   | 0.90                    |                       |                         |                 |                   |                      | -                       |                |                       |                          |                        |                   |                     |              | •                            |                                    |       |
|                 | 6LB       | 66                     | 15.71                    | 16.70                   | 0.99                    | 0.84                  | 1.98                    | 14.11           | 7.59              |                      | 26,77                   |                | 63,66                 |                          | 31.53                  | 0.62              | 0.53                | 90.48        | 1.42                         | 1.60                               |       |
|                 | 6LA       | 66                     | 16.70                    | 17.38                   | 0.68                    | 0.65                  | 1.72                    | 30,99           | 13.87             |                      | 25.44                   |                | 58.97                 |                          | 29.13                  | 1.20              | 0.89                | 62.22        | 1.61                         | 1.60                               |       |
|                 | (6L)      |                        |                          |                         | 1.67                    |                       |                         |                 |                   |                      |                         | •              |                       |                          |                        |                   |                     |              |                              |                                    |       |
|                 | 5x        | 94                     | 17,96                    | 19.51                   | 1,55                    | 0,78                  | 1.92                    | 7,85            | 5,91              |                      |                         |                |                       |                          |                        | 1.05              | 0.86                | 95.61        | 1,35                         | 1.60 .                             |       |
|                 | 5         | 80?                    | 20.25                    | 23.68                   | 3.43                    | 0.87                  | 1.92                    | 10,71           | 5.91              |                      |                         |                |                       |                          |                        | 0.55              | 0,86                | 95.61        | 1.38                         | 1.60                               |       |
|                 | 5T/5 Prtg |                        | 23.68                    | 24.70                   |                         |                       |                         |                 |                   |                      |                         |                |                       |                          |                        |                   |                     |              |                              |                                    |       |
|                 | ST        |                        | 24.70                    | 24.95                   | 0.25                    |                       |                         |                 |                   |                      |                         |                |                       |                          |                        |                   |                     |              |                              |                                    |       |
|                 | ?         | 35                     | 27.51                    | 28,23                   | 0,72                    |                       |                         |                 |                   |                      |                         |                |                       |                          |                        |                   |                     |              |                              |                                    |       |
|                 | ?         | 45                     | 29.50                    | 30.30                   | 0.80                    |                       |                         |                 |                   |                      |                         |                |                       |                          |                        |                   |                     |              |                              |                                    |       |
|                 | 4         | 71                     | 31.38                    | 34,16                   | 2.78                    | 0.69                  | 1.82                    | 10.04           | 7.41              | 30.32                | 28,66                   | 58,95          | 62,11                 | 30,75                    | 31.58                  | 0.54              | 0.54                | 92.75        | 1.37                         | 1,60                               |       |
|                 | 3U        | 100                    | 40,58                    | 41,61                   | 1,03                    | 0.57                  | 1.64                    | 9.01            | 6,80              | 28,52                | 26.84                   | 61.90          | 64.72                 | 31.56                    | 31,80                  | 1.62              | 1,14                | 93.28        | 1.36                         | 1,60                               |       |
|                 | 3 Prtg    |                        | 41.61                    | 42.34                   |                         |                       |                         |                 |                   |                      |                         |                |                       |                          |                        |                   |                     |              |                              |                                    |       |
|                 | 3L        | 100                    | 42.34                    | 42.86                   | 0,52                    | 0.85                  | 1.80                    | 21,81           | 13.52             | 29.52                | 27.20                   | 47,82          | 57,48                 | 25,73                    | 29.62                  | 2.11              | 1.66                | 70.99        | 1,51                         | 1,60                               |       |
|                 | 2B        | 83                     | 52.39                    | 54.38                   | 1.99                    | •                     |                         |                 |                   |                      |                         |                |                       |                          |                        |                   |                     |              |                              |                                    |       |
|                 | 2A        | 83                     | 54.38                    | 55.91                   | 1.53                    |                       |                         |                 |                   |                      |                         |                |                       |                          |                        |                   |                     |              |                              |                                    |       |
|                 | 2         | -                      |                          |                         | 3.52                    | 0.71                  | 2.19                    | 17.03           | 11.33             | 26.68                | 25.84                   | 55.58          | 60.64                 |                          | 30,07                  | 0.67              | 0,40                | 84,66        | 1,45                         | 1,60                               |       |

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## TELKWA - PIT #8 **Drill-hole Scam Intersections**

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AU310/2/54

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|                      |             |              |             |              |         |       |       |              |              | 3 Seam | <u> </u> |        | 1            | 4 Seam | <u> </u>   |       |           | +            |        | :      | S Seam | —    |              |      |       |      | - (   | Scam         | —     |       |            |       |                  |      |         |          |       |         |       |      |        |             |
|----------------------|-------------|--------------|-------------|--------------|---------|-------|-------|--------------|--------------|--------|----------|--------|--------------|--------|------------|-------|-----------|--------------|--------|--------|--------|------|--------------|------|-------|------|-------|--------------|-------|-------|------------|-------|------------------|------|---------|----------|-------|---------|-------|------|--------|-------------|
| Trefficiala          | Seam:<br>21 | , 2L         | orte        | 2 2          | Upriz 2 | 2-upr | it de | 2/31 Ps      | 3-lwr        | 3 prtg | 3-upr    | ibrda  | 4            | 4 priz | 4 <b>U</b> | ibeda | 4/5 D-a   | 5            | 5/6 Ba | 5L     | 5 prtz | 5U   | ibrda        | 5RX  | ibrda | 6    | 6L    | 6 priz       | 6U    | ibrda | 7          | ibrda | 6/3 Dan          | 8    | iktda   | 9        | ibrán | 10      | ibrda | 11   | 8/1155 | 1155        |
|                      |             |              | 1           |              |         |       |       |              |              |        |          |        |              |        |            |       |           |              |        | ****** |        |      |              |      |       |      |       |              | ****  |       |            |       |                  |      | ******* |          |       |         |       |      |        |             |
| T892.915             | N/C         |              |             |              |         |       |       |              |              |        |          |        |              |        |            |       |           |              |        |        |        |      |              |      |       |      |       | •            |       |       |            |       |                  |      |         |          |       |         |       |      |        |             |
| 1792.10              |             |              |             |              |         |       |       |              | 1.25         | 1.78   | 1.12     | 6.08   | 2.48         |        |            |       | 0,49      | 3.01         | 0,49   |        |        |      |              |      |       | 4.69 |       |              |       | 13.03 | 0,70       |       |                  |      |         |          |       |         |       |      |        |             |
| T928.23              |             |              |             |              |         |       |       |              |              |        |          |        |              | •      |            |       |           |              |        |        |        |      |              |      |       |      |       |              |       |       |            |       |                  | 1.85 | 1.10    | 0.37     | 1.56  | 0,76    | 10,22 | 1.22 | 19.23  | 9.09        |
| T92R-54C             |             |              |             | 3.21<br>4 03 | 0.46    | 0.44  | 4.80  | 5.70         | 0.89         | 0.90   | 0.95     | 2.74   | 0.00<br>2.17 |        |            |       | 6.99      | 3.99<br>7.13 | 1.99   |        |        |      |              |      |       |      | 0.92  | 0.54         | 1.19  | 7.75  | 0.50       | 15.74 | 23.99            | 1.69 | 1.24    | 0.37     | 0.98  | 0.18    | 11.43 | 0.77 | 14.97  | 9.26        |
| TY3R-25              |             |              |             | 3.98         |         |       |       |              |              | ••••   |          |        |              | •      |            |       | •••       | /            | •      |        |        |      |              |      |       |      |       | ••••         |       |       | •          |       | •••••            | •    | 2.000   |          |       |         |       | •.•, |        |             |
| THIR.28              |             |              |             | 0.99         |         |       |       | 5_54         | 1.40         | 0.07   | 1.19     |        |              |        |            |       |           | 5.40         | 0.00   |        |        |      |              |      |       |      | 1.82  | 0.00         | 1.30  | 15.89 | 0.76       |       |                  |      |         |          |       |         |       |      |        |             |
| THER.26              | 2.0         | 1 3.         | 38          | 1.12         | 4 09    | 0.95  | 4/1   | 5.55         | 1.67         |        | 1 78     | 4.07   | 1 71         |        |            |       | <b>A4</b> | 114          | 6.77   |        | 1      |      |              |      |       |      |       |              |       | 1616  | n 15       |       | 10.01            | 1.00 | 1 7n    | 6 17     | 1 71  | 0.14    | 11.00 | 0.02 |        |             |
| THE-IS               |             | •            |             | 1.30         | 7.98    | 4.00  |       | 4.25         | 1.16         | 0.07   | 0.73     | 3.63   | 2.05         |        |            |       | 0.61      | 3.97         | 0.10   |        |        |      |              |      |       | 2.76 |       |              |       |       |            |       | 31.94            | 1.81 | 0.32    | 0.37     | 1.87  | 0.33    |       | •    |        |             |
| T93D-27              |             |              |             |              | ******* |       |       |              |              |        | <u></u>  | •••••• | 2.65         | · .    |            |       | 0,40      | 2.07         | 0.45   |        |        | •    |              |      |       | 6.08 | ····· |              |       | 13.68 | 0.61       |       |                  |      |         | ******** |       | ******* |       |      |        |             |
| TELD-214             | NO          |              |             | 0.00         |         |       |       |              | 2.44         | 1.06   | 0,80     |        |              |        |            |       |           | 4,73         | 8.12   |        |        |      |              |      |       |      | 1,48  | 0,45         | 1.97  | 7.50  | 0.40       | 25.84 | 33.74            | 2.45 | 3,13    | 0.50     | 5.25  | 0.83    | 7.11  | 0.75 | 17.68  |             |
| 184D-441             | 100         |              |             | 0.96         | 0.97    | Q,80  | 7.12  | 8.84         | 0.48         | 2.32   | 0.50     | 4.63   | 0.19         |        |            |       | 4.66      | 2.00         | 11.28  |        |        |      |              |      |       |      | 1.28  | 2.16         | 1.29  | 13.84 | 2.08       | 22,48 | 38.40            | 2.16 | 4.46    | 1.28     | 4.76  | 0.96    |       |      |        |             |
| TISD-541             |             |              |             | 3.53         |         |       |       | 8.47         | 1.09         | 0.75   | 1.02     | 3.08   | 1.30         |        |            |       | 4,46      | 1.70         | 6,42   |        |        |      |              |      |       |      | 1,22  | 0.52         | លេ    | 622   | 0,55       | 16,15 | 22.92            | 0.01 | 4.72    | 0.58     | 3,50  | 0,02    |       |      |        |             |
| T92R-33              | <u> </u>    |              |             | 3,22         | 0,89    | 0.41  | 4.38  | 3.68         | 0.80         | 0 60   | 0,73     | 182    | 1.63         |        |            |       | 1.44      | 2.01         | 7.66   | 1.17   | 0.00   | 1.74 |              |      |       |      | 1.19  | 1.70         | 1.28  |       |            |       |                  |      |         |          |       |         |       |      |        |             |
| 1928-17<br>1928-17   |             |              |             | 3.30         |         |       |       | 5.53         | 1.19         | 0.67   | 0.95     | 2.65   | 1.82         |        |            |       | 1.67      | 1,48         | 7,33   | 0.19   | 0.00   | 1.29 |              |      |       |      | 1.81  | 0.77         | 1.65  | 4 60  | 0.11       | 15.17 | 19.88            | 037  | 1.29    | 0.04     | 5.94  | 0.0     | 0.31  | 0.05 | 8.45   | 11.17       |
| 791E-32              |             |              |             | 3.79         |         |       |       | 8.39         | 0.87         | 1.08   | 1.13     | 4,22   | 1.56         |        |            |       | 0,44      | 3.13         | 11.14  |        |        |      |              |      |       |      | 1.58  | 1.18         | 1,38  |       |            |       | 23,04            | 1.29 | 1.06    | 0.29     | 3.57  | 0.97    | 4,22  | 1.01 |        |             |
| 139D-915             |             |              |             | 3.62         |         |       |       | 9.77         | 1.64         | 0.43   | 1.07     | 1.89   | 1.88         |        |            |       | 1.02      | 3.57         | 10.34  | 1.51   | 0.00   | 2.06 |              |      |       |      | 1.60  | 0.76         | 1.52  | 5.91  | 0.22       | 18.94 | 25.07            | 1.72 | 3 21    | n ««     | 2.74  | 0.58    | 7.65  | 0.24 | 12.45  | 12.58       |
| 134D-440             |             |              |             | 2.22         |         |       |       | 10,72        | 1.02         | 0.55   | 1.02     | 3.92   | 1.71         |        |            |       | 1.17      | 4.07         | 3.66   | 1.63   | 0.00   | 2.44 |              |      |       |      | 1.70  | 1.10         | 0.92  | 4.00  | 0.45       | 19.29 | 23,74            | 1.83 | 0.63    | 0.62     | 2.98  | 0.85    | 5.92  | 0.05 | 11.00  | 15.95       |
| T91R-19C             |             |              |             | 2.08         | 2.03    | 0.31  | 6.92  | 6,92         | 0.97         | 0.69   | 0.99     | 3.18   | 1.92         |        |            |       | 1.41      | 3.68         | 7.11   | 0.97   | 0.00   | 2.71 |              |      |       |      | 1.27  | 1.13         | 133   | 6.02  | 0.53       |       |                  |      |         |          |       |         |       |      |        |             |
| 1912.11              |             |              |             | 1.68         | 2.40    | 0.08  | 6.66  | 914          | 0.94         | 0.61   | 0.93     | 2,87   | 2.05         |        |            |       | 2.51      | 3,19         | 732    | 1.22   | 0.00   | 1.97 |              |      |       |      | 0.76  | 0.54<br>0.10 | 132   | 2.00  | 0.03       | 14,46 | 22.49            | 1.05 | 0,79    | 0.32     | 2,25  | 1.03    | 1,78  | 0.24 | 5.92   | 10.93       |
| 15112-15<br>T85D-541 | 1           |              |             | 1.77         | 1.51    | 0.34  | 6.62  | 8.47         | 0.\$2        | 0.92   | 0.88     | 180    | 1.44         |        |            |       | 0.85      | 2.64         | 204    | 1.14   | 0.00   | 1.50 |              |      |       | •    |       | 010          | 020   | 210   | 0.45       |       |                  |      |         |          | •     |         |       |      |        |             |
| TR9R-993             |             |              |             |              |         |       |       |              |              |        |          |        |              |        |            |       |           | 1.19         | 10.58  | 0.50   | 0,00   | 0.55 | 7.30         | 1.53 | 1.75  |      | 2.27  | 1.04         | 1.72  | 5.98  | 0.33       |       |                  |      |         |          |       |         |       |      | •      |             |
| T93D-44              |             |              |             | 3.64         |         |       |       | 6.86         | 1.02         | 0.56   | 0.97     | 0.78   | 1.89         |        |            |       | 0.53      | 1.92         | 12.44  | 0.91   | 0.00   | 0.89 |              |      |       |      | 1.34  | 1.73         | 1.45  |       | 0.42       |       | 23.99            | 10   | 2.01    | 0.33     | 2.56  | 0.89    | 4.18  | 0.66 |        |             |
| 1390-924             |             |              |             |              |         |       |       |              |              |        |          |        | 1.15         |        |            |       | 0.51      | 3.56         | 2.55   | 1.17   | 0.00   | 2.39 |              |      |       |      | 1.63  |              |       |       | 0.19       | 14,26 |                  | 2.20 | 0.54    | 0.25     |       |         | •     |      |        |             |
| 189D-923             | 0,4         | 12 0         | 1,64        | 1.92         |         |       |       | 12.65        | 0.55         | 0.34   | 213      | 1.17   | 0.48         |        |            |       |           |              |        |        |        |      |              |      |       |      |       |              |       |       |            |       |                  |      |         |          |       |         |       |      |        |             |
| T92R.15              | 1 03        | 1 4          | 1.33        | 405          |         |       |       |              | 0.01         | 0.14   | 0.90     | 1 12   | 1.00         |        |            |       | 1.40      |              | 17 00  | 0.65   | 0.72   | 1 17 | 44           | 1.01 | 776   |      | 9 KM  | <b>0</b> 40  | 1.07  |       |            |       | <del>71 27</del> | 1.0  | 0.42    | D.42     | *     | n eo    | 4 40  | 0.92 | 0.66   | <b>71</b> 4 |
| 133D-895             |             |              |             | 3.38         | 0.54    | 0,24  | 7,17  | 7.95         | 1.07         | 0.36   | 0.89     | 1.42   | 1.07         |        |            |       | 0.25      |              | 21.91  | 0.10   | 0.39   | 1.10 | 8.41         | 0.20 | 13.30 |      | 0.42  | 0.38         | 2.04  |       |            |       |                  |      | •**=    |          |       | •       | ••••  | 400  | ,      |             |
| T898.913             |             |              |             | 3.96         |         |       |       | 10.52        | 0.96         | 0.36   | 0,85     | 1,23   | 1.71         |        |            |       | 1.50      |              |        | 0.55   | 0.49   | 1.11 |              |      |       |      |       |              |       |       |            |       |                  |      |         |          |       |         |       |      |        |             |
| T92R-14              |             |              | 170         | 3.05         | 0,92    | 0.36  | 6.45  | 7.74         | 0.67<br>1.01 | 0,52   | 0.78     | 0.67   | 1.89         |        |            |       | 1.00      | 2.52         | 10.89  | 0.97   | 0.06   | 1.47 | 2.81         | 1.10 | 4.03  |      | 2.02  | 1.26         | 1.0   |       |            |       | 24.76            | 1.71 | 0.30    | 0.43     | 1.0   | 0.95    | 5.66  | 1.07 | 9.82   | 10.45       |
| 1920-45              | 0.4         | i5 1         | 1.09        | 1.78         |         |       |       | 11.87        | 1.13         | 173    | 1.21     | 2.47   | 1.59         |        |            |       | 2.43      |              |        | 0.37   | 0.93   | 0.19 | 7,80         | 0,45 |       |      |       |              |       |       |            |       |                  | 2.10 |         |          |       | 0.82    | 4.73  | 9.59 | 8,96   | 11.37       |
| T83D-811             | 0.5         | H ° 0        | 0.81        | 1.84         |         |       |       | 11.92        | 1.28         | 0,70   | 0.70     | 2.68   | 0.77         |        |            |       | 1.45      |              | 931    | 0.40   | 0.79   | 0.11 | 6.54         | 0.16 | 2.61  |      | 820   |              |       |       |            |       |                  | 1.73 | 0.06    | 0.42     | 1.86  | 0.93    | 4.43  | 0.88 | 8.65   | 8.61        |
| T39R.909             | 0.4         | 19 0<br>17 0 | ),54<br>142 | 2.00         |         |       |       | 6.3Z<br>9.04 | 1.48         | 0.33   | 1.18     | 1.29   | 2.04         |        |            |       | 0.92      |              |        | 0.91   | ങ      | 1.33 | 6.96         | 0.07 | 0,00  |      | 2.09  | L48          | 0.94  |       |            |       |                  |      |         |          |       |         |       |      |        |             |
| T398.910             | 1           |              |             | 0,44         |         |       |       | 9.92         | 0.77         | 0.47   | 0.76     | 2.75   | 1.73         |        |            |       | 2.42      |              | 12.31  | 0.70   | 0.92   | 0.60 | 10.15        | 1.54 | 0.62  |      | 1.59  | 0.71         | 1.32  |       |            |       |                  |      |         |          |       |         |       |      |        |             |
| T89D-922             |             |              |             |              |         |       |       |              |              |        |          |        |              |        |            |       |           |              |        |        |        |      |              |      |       |      |       |              |       |       |            |       |                  |      |         |          |       |         |       |      |        | •           |
| 192E-15              | NUC         |              |             |              |         |       |       |              |              |        |          |        |              |        |            |       |           |              |        |        |        |      |              | 3.05 | 0.74  |      | 0.83  | 0.15         | 0.52  |       |            |       | 13.29            | 2.38 | 2.64    | 0.93     | 3.96  | 0.52    | 637   | 0.43 | 13.95  | 11.99       |
| T912.03              |             |              |             | 0,42         |         |       |       | 14.75        | 1.01         | 0.44   | 89.0     | 5.27   | 0.93         |        |            |       | 1.29      |              | १.व    | 1.14   | 1.24   | 0,50 | 3.62         | 4.01 | 2.00  |      | 0.59  | 0.59         | 0.68  | 5.02  | 0.51       |       |                  |      |         |          |       |         |       |      |        |             |
| 733D-812             | 0.0         | 90-0<br>•    | 0.70        | 3.05         |         |       |       | 15,66        | 1.35         | 0.45   | 1.10     | 2,90   | 1.13         | 0.93   | 1.02       | 1.57  |           |              | 16,49  | 1.06   | 0.80   | 1.10 | 6.87<br>5.94 | 2.32 | 730   |      | 1.00  | 1.55         | 0.86  | 11.39 | 020<br>000 | 11.09 | 23.38            | 0.31 |         |          |       |         |       |      |        |             |
| 133D-343<br>TE9E.911 | 0.4         | ar d         | 0.51        | 2.22         |         |       |       | 14.87        | 0.79         | 1.02   | 0.86     | 2,70   | 0.60         | 1.02   | 0.39       | 2,04  |           |              | 9.87   | 0.55   | 0.92   | 58.0 | 8.69         | 0,73 | 0.45  |      | 1.93  | 0,76         | 1.50  |       | ••         | 19.60 | 18,59            | 0.85 | 1.70    | 1.10     |       |         |       |      |        |             |
| 792R-11              | 0.0         | 15 0         | 0.18        | 1.76         | 0.71    | 0.58  |       |              |              |        |          |        | 0.74         |        |            |       | 1,17      |              | 11.65  | 1,74   | 0.00   | 0.93 | 9.13         | 1.19 | 1.33  |      | 0.52  | 0.71         | 1.53  |       |            |       | 16,22            | 0.86 | 3,90    | 0.78     |       |         |       | ,    |        |             |
| T92D-41              | 0.:         | SL (         | 0.52        | 2.31         |         |       |       | 11.81        | 1.12         |        | 0.00     | 1 02   | 0.01         |        |            |       | 9 64      |              | 0 10   | 0.40   | n ec   | 0 77 | \$ 77        | 0.77 | 7.01  |      | 1.64  | A 00         | 1 11  |       |            |       | 10.40            |      | 1.68    | 0.47     |       |         |       |      |        |             |
| 133D-354             |             |              |             | 3.57         |         |       |       | 8.37         | 0.92         | 1.10   | 1.03     | 2.09   | 1.66         |        |            |       | 434       |              | 12,83  | 0.52   | 0.98   | 2.40 | 4.32         | 0.82 | 7,74  |      | 1.60  | 1.75         | 0.85  |       |            |       | 9.66             | 0.09 | 1.05    | V.VF     |       |         |       |      |        |             |
| T92E-13              |             |              |             |              |         |       |       |              |              |        |          |        |              |        |            |       |           |              |        |        |        |      |              |      |       |      | 2.13  | 1.94         | 1.21  |       |            |       | 5.57             | 1.92 | 2.69    | 9.67     | 83.0  | 1.38    |       |      |        |             |
| T86D-601             |             |              |             | 3.61<br>7.41 | 0.94    | 0.72  | 6.76  | 8.42         | £12          | 0.48   | 1.08     | 1.54   | 1.68         |        |            |       | 2,60      |              |        | 0.68   | 0.75   | 1,42 |              |      |       |      |       |              |       |       |            |       |                  |      |         |          |       |         |       |      |        |             |
| 1928-06              | N/C         |              |             | 3.45         |         |       |       |              |              |        |          |        |              |        |            |       |           |              |        |        |        |      | • •          |      |       |      |       |              | ~~~~~ |       | *****      |       | · · · · ·        |      |         |          |       |         |       |      |        |             |
| T38D-302             | N/C         |              |             |              |         |       |       |              |              |        |          |        |              |        |            |       |           |              |        |        |        |      |              |      |       |      |       |              |       |       |            |       |                  |      |         |          |       |         |       |      |        |             |
| 788D-810             | N/C         |              |             |              |         |       |       |              |              |        |          |        |              |        |            |       |           |              |        |        |        |      |              |      |       |      |       |              |       |       |            |       |                  |      |         |          |       |         |       |      |        |             |
| T92D-02              | 0           | 67 (         | 92.0        | 2.79         |         |       |       |              |              |        | 1.05     | 2,40   | 1.13         |        |            |       |           |              |        |        |        |      |              |      |       |      |       |              |       |       |            |       |                  |      |         |          |       |         |       |      |        |             |
| T83D-813             |             |              |             |              |         |       |       |              |              |        | •••••    |        |              |        |            |       |           | ••••         |        |        |        |      |              |      |       |      |       |              |       |       |            |       |                  |      |         |          |       |         |       |      |        |             |
| 7818,110<br>1819,111 | N/C         |              |             |              |         |       |       |              |              |        |          |        |              |        |            |       |           |              |        |        |        |      |              |      |       |      |       |              |       |       | •          |       |                  |      |         |          |       |         |       |      |        |             |
| 183D-801             | N/C         |              |             |              |         |       |       |              |              |        |          |        |              |        |            |       |           |              |        |        |        |      |              |      |       |      |       |              |       |       |            |       |                  |      |         |          |       |         |       | •    |        |             |
| <b>T92E-35</b>       | #1 gms      |              |             |              |         |       |       |              |              |        |          |        |              |        |            |       |           |              |        |        |        |      |              |      |       |      |       |              |       |       |            |       |                  |      |         |          |       |         |       |      |        |             |

1.42 0.98 1.39 9.01 0.57 16.82 22.84 1.41 1.76 0.52 2.55 0.73 6.22 0.61 11.47 11.16 Averages: 0.47 1.14 2.64 1.37 0.42 5.80 8.91 1.07 0.63 0.99 2.72 1.42 0.90 0.72 1.59 1.58 3.33 7.81 0.87 0.43 1.35 6.48 1.30 3.96

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Fill name TACORYEXLS

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## TELKWA PROJECT - COAL QUALITY SUMMARY

## PIT #8 Composited seams - Raw and Washed results, reported on an A.D. basis

| . prill-hole    | SEAM    | SEAM<br>REC'VRY<br>(%) | DRILLED SI<br>From<br>(1 | EAM INT'RVL<br>To<br>n) | SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw | MOISTURE<br>Clean<br>%) | AS<br>Raw<br>(7 | iH<br>Clean<br>i) | VOLATILI<br>Raw<br>(1 | E MATTER<br>Clean<br>%) |   | FIXED C.<br>Raw<br>(% | ARBON<br>Clean<br>) | CALORI<br>Raw<br>(N | FIC VALUE<br>Clean<br>LJ/kg) | SULPHUR<br>Raw Cican<br>(%) | YIELD<br>(%) | 5<br>(<br>Ru<br>(g/( | SPECIFIC<br>GRAVITY<br>Aw Wshbliy<br>(g/cc) | F.S.I. |
|-----------------|---------|------------------------|--------------------------|-------------------------|-------------------------|-----------------|-------------------------|-----------------|-------------------|-----------------------|-------------------------|---|-----------------------|---------------------|---------------------|------------------------------|-----------------------------|--------------|----------------------|---------------------------------------------|--------|
| T79R10          | 7       |                        | 85.29                    | 85.99                   | 0,70                    |                 |                         |                 |                   |                       | ÷                       |   |                       |                     |                     | _                            |                             |              | ·                    | ······                                      |        |
|                 | 6       |                        | 99,02                    | 103.71                  | 4,69                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 5       |                        | 104,20                   | 107.23                  | 3.03                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 4       |                        | 108.29                   | 110.77                  | 2,48                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 3U      |                        | 116.85                   | 117.97                  | 1.12                    |                 |                         |                 |                   |                       |                         | • |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 3L      |                        | 119.75                   | 121.00                  | 1.25                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      | *                                           |        |
| <b>T</b> 81R110 | N/C     |                        |                          |                         |                         |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 10      |                        | 16.10                    | 76.01                   | 0.81                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
| 1818111         | 17      |                        | 33.10                    | 33,91                   | 0.01                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 17      |                        | 156.97                   | 159.02                  | 2 11                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 12      |                        | 159 38                   | 159 71                  | 033                     |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             | *            |                      |                                             |        |
|                 | 17      |                        | 160.30                   | 160.80                  | 0.50                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             | •      |
|                 | 17      |                        | 161.90                   | 162.50                  | 0.60                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 17      |                        | 163.70                   | 164.30                  | 0,60                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 12      |                        | 164.70                   | 165.67                  | 0.97                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | ,17     |                        | 166.10                   | 166,40                  | 0,30                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 17      |                        | 166.65                   | 167.00                  | 0.35                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
| T82D213         | 2       |                        | 16,54                    | 19.97                   | 3,43                    | 0.93            | 1,03                    | 16.32           | 8.52              | 26,14                 | 27.40                   |   | 56,61*                | 63,05               | 28.37               | 31.49                        |                             | 78.00        | 1.                   | 44                                          | 2,5    |
| T82D214         | 11      |                        | 170.60                   | 171.35                  | 0,75                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 10      |                        | 178.57                   | 179.40                  | 0,83                    | 0.80            | 0.99                    | 12,02           | 7.48              | 30.52                 | 31.35                   |   | 56,66                 | 60,18               | 30.79               | 32.53                        |                             | 87,00        | 1,                   | 39                                          | 4.0    |
|                 | 9       |                        | 184,65                   | 185.15                  | 0.50                    |                 |                         |                 | ,                 |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 8       |                        | 188.28                   | 190.76                  | 2.48                    | 0,67            | 0.66                    | 35,09           | 9,79              | 21.20                 | 26,58                   |   | 43.04                 | 62.97               | 21.44               | 31,37                        |                             | \$7.00       | 1.                   | 66                                          | 3.0    |
|                 | 7       |                        | 216.60                   | 217,00                  | 0.40                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             | •            |                      |                                             |        |
|                 | ល       |                        | 224.50                   | 226.47                  | 1.97                    | ٠               |                         |                 |                   |                       |                         | • |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 6 Pring |                        | 226.47                   | 226,92                  | 0.45                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 6L      |                        | 226,92                   | 228,40                  | 1.48                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 6       |                        |                          |                         | 3,90                    | 0.51            | 0.67                    | 18.94           | 6,22              | 26.26                 | 30.06                   |   | 54,29                 | 63.05               | 28,03               | 33,08                        |                             | 74.00        | 1.                   | .47                                         | 5.5    |
|                 | 5B      |                        | 230,78                   | 230,82                  | 0,04                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 5A      |                        | 232.70                   | 232.80                  | 0.10                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              |                             |              |                      |                                             |        |
|                 | 5       |                        | 236.52                   | 241.25                  | 4,73                    | 0,63            | 0.56                    | 17,95           | 9,83              | 27,05                 | 27,72                   |   | 54.37                 | 61.89               | 27.69               | 31.43                        |                             | 68.00        | 1.                   | .46                                         | 4.5    |
|                 | 3U      |                        | 244.88                   | 245.68                  | 0,80                    | 0.59            | 0,55                    | 17.08           | 9.09              | 27,02                 | 29.01                   |   | 55,31                 | 61,35               | 27.99               | 31.31                        |                             | • 80.00      | 1,                   | 45                                          | 4,5    |
|                 | 3 Pring | •                      | 245.68                   | 246.74                  | 1.05                    |                 |                         |                 |                   |                       |                         |   |                       |                     |                     |                              | •                           |              |                      |                                             |        |
|                 | 3L      |                        | 246.74                   | 249,18                  | 2.44                    | 0.72            | 1.06                    | 33,87           | 10,75             | 22,80                 | 24.85                   |   | 42.61                 | 63,34               | 21.19               | 30.78                        |                             | 56,00        | 1.                   | 65                                          | 1.5    |

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|-----------------|---------|----------------|-----------|---------------|-----------------|-----------|--------------|-----------|-------------|------------------|------------------|----------------------|-----------|-------------|---------|----------------|-------------------|-------|
| drill-hole<br># | SEAM    | REC'VRY<br>(%) | From<br>( | To<br>m)      | THICKN'S<br>(m) | Raw<br>(? | Clean<br>(4) | Raw<br>(1 | Clean<br>%) | Raw Cican<br>(%) | Raw Clean<br>(%) | Raw Clean<br>(MJ/kg) | Raw<br>(% | Clean<br>6) | (%)     | Raw<br>(g/cc)  | Wahbily<br>(g/cc) |       |
|                 |         |                |           |               |                 |           | ,            |           | ····        |                  | ·                |                      |           |             |         |                | •                 |       |
| T84D440         | 11      |                | 38.70     | 38.76         | 0.06            | 0.00      |              | 12.02     | 0.00        | 24.62            |                  |                      |           |             |         |                |                   | •     |
| ,               | 10      |                | 44.68     | 45,53         | 0.85            | 0,92      | 1.26         | 13.03     | 9.08        | 34.68            | 54.98            | 31,29                | 3.35      | 2,20        | 92.76   | 1.41           |                   |       |
|                 | 9       |                | 48.21     | 49.13         | 0,02            | 1.20      | 0.98         | 34,04     | 10,95       | 33,48            | 24,39            | 30.77                | 2.53      | 2,62        | 39,82   | 1,92           |                   |       |
|                 | ð       |                | 49,70     | 51,39         | 1.03            | 1.00      | 2,01         | 14,30     | 9.03        | . 20,14          | 60.20            | 30,50                | 0.75      | 0.71        | 92,36   | 1.42           |                   |       |
|                 | 7       |                | 33,73     | <i>33.1</i> 6 | 0.03            | 0.07      | 1 10         | 19 74     | 10.42       | 28.56            | 60.00            | 70.55                | 2.04      |             |         |                |                   |       |
|                 |         |                | 70.00     | 7630          | 0,45            | 0.57      | 1.12         | 35.12     | 10,42       | 20.30            | 37.87            | 30.33                | 3,84      | 4.23        | 94,01   | 1.41 -         |                   |       |
|                 | 6 Detag |                | 75.30     | 70.30         | 1.10            | 0,02      | 1.11         | 27.17     | 10.03       | 52.21            | 55,67            | 30,67                | 1.09      | 1.34        | 00,09 - | 1.34           |                   |       |
|                 | o Prog  |                | 70.30     | 77.40         | 1.10            | 0.05      | 1 45         | 78 07     | 7 99        | <b>T A C</b>     | 61.24            | 33.03                | 1 70      | 0.84        | CE 07   | 1.60.4         |                   |       |
|                 | ?       |                | 80,05     | 80,42         | 0.37            | 1,37      | 1.17         | 65.45     | 26.84       | 25.30            | 46.69            | · 24.54              | 0.45      | 0.82        | 8.81    | <b>2.</b> 11 # |                   |       |
|                 | SU      |                | 82.76     | 85.20         | 2.44            |           |              |           |             |                  |                  |                      |           |             |         |                |                   | •     |
|                 | 5 Prtog |                | 85.20     | 85.20         |                 |           |              |           |             |                  |                  |                      |           |             |         |                |                   |       |
| •               | SL      |                | 85,20     | 86.83         | 1.63            |           |              |           |             |                  |                  |                      |           |             |         | -              |                   |       |
|                 | 5       |                | 82.76     | 86,83         | 4,07            | 0.97      | 2.30         | 17,09     | 11.84       | 26,85            | 59,01            | 29.74                | 0,49      | 0.50        | 90.92   | 1.45           |                   |       |
|                 | 4       |                | 88,00     | 89,71         | 1.71            | 0.88      | 1.85         | 14.81     | 10.45       | 27.40            | 60.30            | 30.64                | 2.95      | 0.80        | 91.53   | 1.43           |                   |       |
| •               | 3U      |                | 93.63     | 94.65         | 1.02            | 0,89      | 2,16         | . 14,37   | 10,38       | 27,20            | 60.26            | 30.50                | 1,39      | 1.06        | 89.47   | 1,42           |                   |       |
|                 | 3 Pring |                | 94.65     | 95,20         | 0.55            |           |              |           | •           |                  |                  |                      |           |             |         |                |                   |       |
|                 | 31.     |                | 95,20     | 96.22         | 1.02            | 0.80      | 2.34         | 15.03     | 12.30       | 25.55            | 59.81            | 29.61                | 1.74      | 1.23        | 92.91   | 1.43           |                   |       |
|                 | . 2     |                | 106,94    | 109.16        | 2.22            | 0.97      | 1,92         | 16.95     | 9,25        | 24.51            | 64.32            | 31,17                | 0,48      | 0.50        | 84.75   | 1.45           |                   |       |
|                 |         |                |           |               |                 |           |              |           |             |                  |                  |                      |           |             |         |                |                   |       |
| T84D441         | 10      |                | 89.64     | 90.60         | 0.96            | 0.82      | 1.51         | 17.98     | 12.42       | 26.84            | 59.23            | 29.99                | 1.10      | 1.06        | 92,69   | 1.46           |                   |       |
|                 | 9       |                | 95.36     | 96.64         | 1.28            | 0.68      | 1.08         | 9,08      | 7.94        | 32,39            | 58.59            | 32.10                | 2,61      | 2,17        | 97.37   | 1,36           |                   |       |
|                 | 8       |                | 101.08    | 103,24        | 2,16            | 0.87      | 2.47         | 17.14     | 11.03       | 26,28            | 60.22            | 30.48                | 1,66      | 1.19        | 87.07   | 1,45           |                   |       |
|                 | 7       |                | 125,72    | 127,80        | 2.08            | 0.82      | 1.36         | 15.34     | 10.65       | 28.61            | 59,38            | 30,35                | 0.43      | 0,44        | 90,36   | 1.43           |                   |       |
|                 | ?       |                | 140.72    | 141.10        | 0,38            | 1,23      | 0.72         | 48,10     | 25.18       | 28.81            | 45.29            | 26.22                | 1,98      | 0.91        | 44.81   | 1,83           |                   |       |
|                 | 6U      |                | 141.64    | 142,84        | 1,20            | 1.38      | 1.20         | 39.21     | 23,34       | 25.98            | 49.48            | 26.26                | 0,57      | 0.61        | 52.32   | 1.71           |                   |       |
|                 | 6 Pring |                | 142.84    | 145,00        | 2.16            |           |              |           |             | •                |                  |                      |           |             |         |                |                   |       |
|                 | 6L      |                | 145.00    | 146.28        | 1,28            | 1.12      | 1,16         | 27.64     | 22.41       | 28.00            | 48.43            | 26,66                | 2.96      | 2.31        | 82,10   | 1.57           |                   |       |
|                 | , 7     |                | 147.32    | 147,64        | 0.32            | 1.03      | 0.71         | 50,96     | 31,10       | 27,15.           | 41.04            | 23.33                | 4.48      | 2.42        | 24.01   | 1,87           |                   |       |
|                 | 58      |                | 131.30    | 152.28        | 0.14            | 1.13      | 1,34         | 30.19     | 20.43       | 24.13            | 34,08            | 27.13                | 0.40      | 0.47        | 60,31   | 1,0/           |                   |       |
|                 | 24      |                | 154,40    | 154.90        | 0,55            | 1.10      | 1.02         | 39.90     | 21.37       | 21,19            | 49.99            | 20,77                | 0.93      | 0.41        | 52,57   | 1.72           |                   |       |
|                 | 2       |                | 157.50    | 159,50        | 2.00            | 1.54      | 1.05         | 33,39     | 12,41       | 20.38            | 30.38            | 28.49                | 0,33      | V,41        | 07.06   | 1,04           |                   | •     |
|                 | 4       |                | 164,22    | 104,41        | 0.19            | 1 57      | 1.49         | 50.72     | 21.60       | 35.12            | £1.0¢            | 26.26                | 0.07      | 94.0        | 41.11   | 1 07           |                   |       |
|                 | 3 D-+++ |                | 169.04    | 109.64        | 2 3 2 2         | 1.27      | 1,42         | 50.73     | 21,30       | 23,13            | , 51.95          | 20,20                | . 0.27    | 0,46        | 41.11   | 1.07           |                   |       |
|                 | a rung  |                | 107.04    | 172.10        | 0.49            | 1 20      | 2 17         | 30 07     | 21.57       | 21 27            | 44.90            | 22.69                | 0.20      | 0.72        | 70.10   | 1 71           |                   |       |
|                 | 31      |                | 172.10    | 172.04        | 0.40            | 1.23      | 1.95         | 20.07     | 34.59       | 21.37            | 44,67            | 22,38                | 0.30      | 0.33        | 10.15   | 1,71           |                   |       |
|                 | 20      |                | 181.48    | 182,44        | 0,96            | 1.12      | 1.69         | 43,71     | 22.24       | . 26,13          | 48.91            | 25.92                | 0.35      | 0.45        | 51.24   | - 1.77         |                   |       |
| T85D501         | ST      |                | 6.83      | 8.33          | 1.50            |           |              |           |             |                  |                  |                      |           |             |         |                |                   |       |
|                 | 5 Prino |                | 8.33      | 8.33          |                 |           |              |           |             |                  |                  |                      |           |             |         |                |                   |       |
|                 | 5L      |                | 8,33      | 9.47          | 1.14            |           |              |           |             |                  |                  |                      |           |             |         |                |                   |       |
|                 | 5       |                | 6.83      | 9,47          | 2.64            | 0,45      | 0.56         | . 16.05   | 10,96       | . 29.40          | 59.27            | 31.31                | 0.67      | 0,57        | 86.36   | 1.44           |                   |       |
|                 | 4       |                | 10.32     | 11.76         | 1.44            |           |              |           |             |                  |                  |                      |           |             | 00120   |                |                   |       |
|                 | 313     |                | 13.56     | 14.44         | 0.88            | 0,32      | 0.75         | 13.02     | 10.18       | 29.40            | 59.67            | 31.99                | 1.84      | 1.22        | 91.64   | 1.41           |                   |       |
|                 | 3 Prese |                | 14,44     | 15,36         | 0,92            |           |              |           |             |                  |                  |                      |           |             |         |                |                   |       |
|                 | 3L      |                | 15.36     | 16.18         | 0.82            | 0,18      | 0,51         | 15,74     | 10,34       | 28.12            | 61.03            | 31.56                | 1,21      | 1.05        | 87.37   | 1.44           |                   |       |
|                 | 211     |                | 22.80     | 23.14         | 0.34            | 0.44      | 0.55         | 47.21     | 13,70       | 17.13            | 68.62            | 29.54                | 3.35      | 0.76        | 2.89    | 1.82           |                   |       |
|                 |         |                |           |               |                 |           |              |           |             |                  |                  |                      | -,        |             |         |                |                   |       |

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| ·               |         | SEAM           | BRILLED S | EAM INT'RVL      | SEAM ·           | RESIDUAL        | MOISTURE    |              | 514         | VOLATILE MATTER  | FIXED CARBON     | CALORIFIC VALUE       | sult   | PHUR        | YIELD       | SPECIFIC            | F.S.L        |
|-----------------|---------|----------------|-----------|------------------|------------------|-----------------|-------------|--------------|-------------|------------------|------------------|-----------------------|--------|-------------|-------------|---------------------|--------------|
| DRILL-HOLE<br># | SEAM    | REC'VRY<br>(%) | From (    | To<br>m)<br>     | TIIICKN'S<br>(m) | Ra#<br>('       | Clean<br>%) | Raw (?       | Clean<br>%) | Raw Cican<br>(%) | Raw Clean<br>(%) | Raw Clean<br>(hIJ/kg) | Raw (1 | Clean<br>%) | (%)         | R#W W<br>(g/cc) (g/ | hbity<br>cc) |
| T85D502         | •10••   |                | 70.38     | 70.40            | 0.02             |                 |             |              |             |                  | r                |                       |        |             |             |                     |              |
| •               | 9       |                | 73.90     | 74.48            | 0,5B             | 0.32            | 0.78        | 24.04        | 18.32       | 29.34            | \$1.56           | 28.52                 | 3.31   | 2.66        | 78.91       | 1.53                |              |
|                 | 7       |                | 95 36     | 19.20            | 0.55             | 0.27            | 0.76        | <b>51 70</b> | 12 14       | 31 54            | 55 56            | 20.73                 | 3 11   | 2.07        | 70.03       | 1 52                |              |
|                 | 61      |                | 102.13    | 103.76           | 1.63             | 0.38            | 0.74        | 13.86        | 7.04        | 32.49            | 59,73            | 32.94                 | 1.77   | 1 17        | 86 77       | 1.33                |              |
|                 | 6 Pring |                | 103.76    | 104.28           | 0.52             | 0.41            | 0.88        | 83.26        | 42.99       | 25.60            | 30.53            | 18.85                 | 4.03   | 3.08        | 1.20        | 2.49                |              |
|                 | 6L      |                | 104.28    | 105.50           | 1.22             | 0.31            | 0.80        | 8,01         | 5.92        | 30.20            | 63.08            | 33.14                 | 0.99   | 0.82        | 95.43       | 1.35                |              |
|                 | 5B      |                | 106.70    | 107,45           | 0,75             | 0.59            | 1.00        | 45.39        | 20,78       | 24,93            | 53.29            | 27.49                 | 0.65   | 0,98        | 35,84       | 1.79                |              |
|                 | 5A      |                | 109.63    | 110.29           | 0.66             | 0,38            | 1.04        | 40.78        | 15.48       | 26,44            | 57.04            | 29.74                 | 1.78   | 1.39        | 48,43       | 1.73                |              |
|                 | 5       |                | 111.92    | 113.62           | 1,70             | 0.34            | 0.74        | 27.87        | 10.14       | 14.65            | 74,47            | 31.71                 | 0,80   | 0,76        | 62.84       | 1,57                |              |
|                 | 4       |                | 118.08    | 119,38           | 1,30             | 0.38            | 1.17        | 19.08        | 10.51       | 29.88            | 58.44            | 31.35                 | 0.52   | 0,59        | 83,68       | 1,47                |              |
|                 | 3U      |                | 122.46    | 123,48           | 1.02             | 0.38            | 0.71        | 11.20        | 8,60        | 28,61            | 62,08            | 32.33                 | 1.41   | 1.01        | 93,07       | 1.39                |              |
|                 | 3 Pring |                | 123.48    | 124.23           | 0.75             | 1.00            | 1.02        | 89.00        | 46.81       | 18.16            | 34.01            | 17.81                 | 0.66   | 0.60        | 1.50        | 2,64                |              |
|                 | 3L      |                | 124.23    | 125,32           | 1,09             | 0.49            | 0.61        | 19.39        | 12.64       | 26.77            | \$9.98           | 30.79                 | 1.70   | 1.17        | 83,91       | 1,48                |              |
|                 | 2       |                | 133.79    | 137,32           | 3.53             | 0.44            | 0,81        | 14.93        | 10,33       | 28.32            | 60,54            | 31.49                 | 0.93   | 0.69        | 87,40       | 1.43                |              |
|                 |         |                |           |                  |                  |                 |             |              |             |                  |                  | ×                     |        |             |             |                     |              |
| T86D601         | \$U     |                | 13,05     | 14.47            | 1.42             | 1,28            | 1.22        | 39.84        | 13,64       | 27.58            | 57.56            | 29.28                 | 1,85   | 1.01        | 48,82       | 1.72                | 1            |
|                 | 5 Pring |                | 14.47     | 15.22            | 0.75             |                 |             |              |             |                  |                  |                       |        |             |             |                     |              |
|                 | 5L      |                | 15.22     | 15.90            | 0.68             | 1.30            | 1.06        | 26.25        | 17.25       | 27.25            | 54.44            | 28,07                 | 1.33   | 1.19        | 71.42       | 1,56                |              |
|                 | 4       |                | 18,50     | 20.18            | 1,68             | 2.23            | 2.26        | 14.93        | 11.21       | 26.92            | 59.61            | 30.05                 | 1.09   | 0.81        | 87,76       | 1.43                |              |
|                 | 3U      |                | 21.72     | 22.80            | 1.08             | 1.44            | 1.86        | 10.85        | 8.43        | 27.29            | 62,42            | 31.23                 | 1.85   | 1.25        | 93,34       | 1,38                |              |
|                 | 3 Pring |                | 22.80     | 23.28            | 0.48             |                 |             | 10.00        |             | 45.41            |                  |                       |        |             |             |                     |              |
|                 | 3L      |                | 23.28     | 24,40            | 1,12             | 1,76            | 1.57        | 19.62        | 12,49       | - 25.91          | 60.03            | 29.83                 | 1,58   | 0.79        | 78.69       | 1.48                |              |
|                 | 20      |                | 31,10     | 31.88            | 2.61             | 1.12            | 1.14        | 30,00        | 18.93       | 20,25            | 53,70            | 27.72                 | 2,04   | 1.47        | 46,61       | 1,08                |              |
|                 | 2       |                | J2.82     | 30.43            | 3,01             | 2,33            | 1.92        | 13,22        | 8.31        | 20,30            | 03.21            | 31.14                 | 0.45   | 0.30        | 8411        | 1.42                |              |
| T86D602         | 7       |                | 93.32     | 93.70            | 0.38             | 0.90            | 1.10        | 25.09        | 19.28       | 27.59            | 52.03            | 27.73                 | 1.66   | 1.62        | 79.56       | t 54                |              |
|                 |         |                | -         | not drilled deep | enough to enco   | unter the #11 s | ¢am         |              |             | 2007             |                  | 2                     | ,      |             |             |                     |              |
| T88D801         |         |                |           |                  |                  |                 |             |              |             |                  |                  |                       |        | •           |             |                     |              |
| T88D802         | N/C     |                |           |                  |                  |                 |             |              |             |                  |                  |                       |        |             |             |                     |              |
| T88D803         | 8       |                | 34,00     | 34.61            | 0.61             | 1,19            | 1.21        | 13,65        | 13,82       | 20,39            | 64,58            | 31.31                 | 2.19   | I.79        | 89.35       | 1.41                |              |
| -               | 7       |                | 48.90     | 49.80            | 0,90             | 0.98            | 1.21        | 11.54        | 12.46       | 23.87            | 62,46            | 31.79                 | 1.84   | 1.62        | 93,53       | 1.39                | 1.5          |
|                 | ?       |                | \$2,96    | 54,00            | 1.04             | 0,94            | 1.29        | 19,44        | 12.94       | 23,45            | 62.32            | 31.00                 | 1.63   | 1.22        | 85.49       | 1.48                | 1.0          |
|                 | 6U      |                | 55,40     | 60.55            | 5.15             | 1,27            | 1.29        | 21.15        | 13.67       | 23.04            | 62.00            | 30.14                 | 1.97   | 1.14        | 84.96       | 1.50                | 0,5          |
|                 | 6L,     |                | 62.78     | 64.35            | 1,57             | 1.36            | 1.17        | 22.21        | 12,69       | 23.94            | 62.20            | 29.76                 | 1,26   | 0.92        | 80.21       | 1,51                | 1.0          |
|                 | ?       |                | 66,85     | 67.20            | 0.35             | 1,13            | 1,19        | 32.64        | 18,77       | 23,00            | 57.04            | 28.19                 | 5,83   | 4.04        | 67.18       | 1,63                | 1.5          |
|                 | 5ex     |                | 72.60     | 74.39            | 1,79             | 1.49            | 1.20        | 20,18        | 15.42       | 24.07            | 59,31            | 28.93                 | 1.01   | 0,83        | 88,19       | I.49                | 1.0          |
|                 | 5U      |                | 80,25     | 80.70            | 0.45             | 1.43            | 1.53        | 33.07        | 21.74       | 25.86            | 50.87            | 26.45                 | 0.57   | 0,74        | 69.87       | 1,64                | 2.5          |
|                 | 5 Prtng |                | 80,70     | 81.95            |                  |                 |             |              |             |                  |                  |                       |        |             |             |                     |              |
|                 | 5L      |                | 81.95     | 82.55            | 0,60             | 1.38            | 1.09        | 37.73        | 25.85       | 20.76            | 52,30            | 26.04                 | 2.54   | 0.99        | 65.92       | 1.69                | 1.5          |
| -               | 4U      |                | 83.70     | 84,45            | 0.75             | 1.35            | 1,34        | 18.45        | 13,07       | 25.45            | 60.14            | 29.64                 | 2.72   | 2.27        | 88.33       | 1.47                | 1.5          |
|                 | 4 Pring |                | 84.45     | 85.20            |                  |                 |             |              |             |                  |                  |                       |        |             |             |                     | _            |
|                 | 4       |                | 85,20     | 85.74            | 0.54             | 1.40            | 1.36        | 22.02        | 14.48       | 26,11            | 57.85            | 29.06                 | 0.78   | 0,67        | 83.82       | 1,51                | 1,5          |
|                 | 30      |                | 89.05     | 89.80            | 0.75             | 1,43            | 1.63        | 13.75        | 10.67       | 27,16            | 60,54            | 31.00                 | 1,94   | 1.49        | 93,42       | 1.41                | 1,5          |
|                 | 3 Pring |                | 89.80     | 90,47            | A (8             | 1.00            | 1.01        | 10.00        | 11.00       | AC (A            | co 77            | 2014                  | 1.44   |             | 60 <b>C</b> |                     |              |
|                 | 36      |                | 90,47     | 91,12            | 0.68             | 1,63            | 1.21        | 17,30        | 11,80       | 26,62            | 60.37            | 30.14                 | 1.06   | 0.87        | 89.73       | 1.45                | 1,5          |

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| DRILL-HOLE | SEAM    | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>( | EAM INT'RVL<br>To<br>m) | , SEAM<br>THICKN'S<br>(11) | RESIDUAL<br>Ra <del>n</del><br>(' | MOISTURE<br>Cican<br>%) | A<br>Raw<br>(' | SII<br>Clean<br>%) | VOLATILE MATTER<br>Raty Cican<br>(%)  | FIXED CARBON<br>Raw Clean<br>(%) | CALORIFIC VALUE<br>Raw Cican<br>(MJ/kg) | SULI<br>Raw<br>(' | PHUR<br>Clean<br>%) | YIELD<br>(%) | SPECIFIC<br>GRAVITY<br>Raw Webbliy<br>(g/ce) (g/ce) | , F.S.L |
|------------|---------|------------------------|------------------------|-------------------------|----------------------------|-----------------------------------|-------------------------|----------------|--------------------|---------------------------------------|----------------------------------|-----------------------------------------|-------------------|---------------------|--------------|-----------------------------------------------------|---------|
|            |         |                        |                        |                         |                            |                                   |                         |                |                    | · · · · · · · · · · · · · · · · · · · |                                  |                                         |                   |                     |              |                                                     |         |
| T88D804    | 8       |                        | 9,33                   | 9,42                    | 0.09                       |                                   |                         |                |                    | ,                                     | ,                                |                                         |                   |                     |              |                                                     |         |
|            | 6U      |                        | 19.08                  | · 19.93                 | 0.85                       | 1.41                              | 1,31                    | 27.48          | 10.35              | 33,36                                 | \$4.98                           | 31.23                                   | 1.10              | 1,24                | 69.07        | 1,57                                                | 5,0     |
|            | 6L      |                        | 21,68                  | 23,28                   | 1,60                       | 1.41                              | 1.57                    | 13,49          | 9.15               | 29.44                                 | 59,84                            | 30,87                                   | 1.61              | 1.26                | 90,79        | 1,41                                                | 1.0     |
|            | ?       |                        | 23.65                  | 24.08                   | 0.43                       | 1.20                              | 1,41                    | 21,85          | 18.72              | 28.10                                 | \$1,77                           | 27.74                                   | 1.41              | 1.22                | 93.21        | 1.51                                                | 1.5     |
|            | Sex     |                        | 31.02                  | 31,84                   | 0.82                       | 1,30                              | 1,34                    | 36.17          | 22.92              | 26.47                                 | 49.27                            | 25,96                                   | 3,51              | 1.19                | 66.21        | 1,67                                                | 1,0     |
|            | ទប      |                        | 36.16                  | 37.56                   | 1.40                       | 1.38                              | 1.17                    | 18,88          | 14.50              | 29.07                                 | 55,26                            | 29,02                                   | 1.42              | 1.10                | 91.95        | 1,47                                                | 2.5     |
|            | 5L.     |                        | 38.54                  | 39.06                   | 0.52                       | 1,43                              | 0.90                    | 38,93          | 26.35              | 21,82                                 | 50,93                            | 23.73                                   | 2,87              | 1.20                | 50,13        | 1.71                                                | 1.0     |
|            | 4       |                        | 43,40                  | 45.05                   | 1.66                       | 1,23                              | 1.22                    | 17.46          | 12.82              | 28,20                                 | \$7.76                           | 30,28                                   | 1.50              | 0.97                | 88.58        | 1,46                                                | 1.0     |
|            | ?       |                        | 45.26                  | 45.53                   | 0.27                       | . 1.01                            | 1.16                    | 36.72          | 26.21              | 25.17                                 | 47.46                            | 35,27                                   | 0.38              | 0.45                | 64.38        | 1,68                                                | 1.0     |
|            | 3U      |                        | 47.15                  | 48.18                   | 1.03                       | 0.91                              | 1.14                    | 14,74          | 8.72               | 29.25                                 | 60,89                            | 31.39                                   | 1.32              | 0,99                | 92.13        | 1.43                                                | 2,5     |
| •          | 3 Prtng |                        | 48,18                  | 49.28                   | 1.10                       |                                   |                         |                |                    |                                       |                                  |                                         |                   |                     |              |                                                     |         |
|            | 3L      |                        | 49.28                  | 50.20                   | 0.92                       | 1.08                              | 1.09                    | 20,99          | 15,05              | 26.86                                 | 57,00                            | 28,70                                   | 0.75              | 0.78                | 88,15        | 1.50                                                | 1.0     |
|            | 2       |                        | \$8.57                 | 62.14                   | 3.57                       | 1,10                              | 1.22                    | 24,39          | 12.67              | 27.57                                 | 58.54                            | 30.12                                   | 0.55              | 0.48                | 82.91        | 1.53                                                | 1,0     |
| T88D805    | 6U      |                        | 22.76                  | 24.80                   | 2.04                       | 0.92                              | 0.88                    | 12,43          | 9.09               | 28.66                                 | 61.37                            | 31.46                                   | 175               | 1 23                | 92.76        | 1.40                                                | 15      |
|            | 6 Pring |                        | 24.80                  | 25.18                   | 0.38                       |                                   |                         |                |                    |                                       |                                  | 21110                                   |                   | 1.1.5               | 32,10        | 1,40                                                | 1.7     |
|            | 6L      |                        | 25.18                  | 25,60                   | 0.42                       |                                   |                         |                |                    |                                       |                                  |                                         |                   |                     |              |                                                     |         |
|            | 5ex     |                        | 38,90                  | 39,10                   | 0,20                       |                                   |                         |                |                    |                                       |                                  |                                         |                   |                     |              |                                                     |         |
|            | 5U      |                        | 47.51                  | 48.61                   | 1.10                       | 0.87                              | 0.92                    | 36,20          | 21,00              | 26.84                                 | 51.24                            | 26.72                                   | 0.89              | 0.85                | 69.15        | 1.67                                                | 10      |
|            | 5 Pring |                        | 48.61                  | 49.00                   | 0,39                       |                                   |                         |                |                    |                                       |                                  |                                         |                   | -,                  |              |                                                     | 1.4     |
|            | 5L      |                        | 49.00                  | 49.10                   | 0.10                       |                                   |                         |                |                    |                                       |                                  |                                         |                   |                     |              |                                                     |         |
|            | 4       |                        | 49,35                  | 50,42                   | . 1.07                     | 0.98                              | 0.75                    | 14.93          | 9.41               | 28.94                                 | 60.90                            | 32.60                                   | 0.96              | 0.69                | 93.37        | 1.43                                                | 10      |
|            | ?       | •                      | 50.58                  | 50.89                   | 0.31                       | 1.42                              | 1,43                    | 52.81          | 31.40              | 23,29                                 | 43.88                            | 23.31                                   | 0.61              | 0.47                | 41.80        | 1 90                                                | 0.5     |
|            | 3U      |                        | 51.84                  | 52,73                   | 0,89                       | 1.74                              | 1.81                    | 13.22          | 10.55              | 28.30                                 | \$9.34                           | 30.80                                   | 1.29              | 1.08                | 95.20        | 1.41                                                | 15      |
|            | 3 Pring |                        | 52.73                  | 53,09                   | 0,36                       |                                   |                         |                | 43,29              | 20.98                                 | 34.81                            | 18.55                                   |                   | 1.96                |              |                                                     | ***     |
|            | 3L      |                        | \$3.09                 | 54.16                   | 1.07                       | 1.91                              | 1.88                    | 16.92          | 12,27              | 26.40                                 | 59,45                            | 26.98                                   | 1.52              | 1.03                | 89,45        | 1.45                                                | 1.0     |
|            | 2U      |                        | 61.33                  | 61.57                   | 0.24                       | 1.50                              | 1.07                    | 49.38          | 30.46              | 24.11                                 | 44.36                            | 23.58                                   | 2,11              | 1.36                | 33.18        | 1.85                                                | 1.0     |
|            | 2       |                        | 62.11                  | 65,49                   | 3,38                       | 1,56                              | 1.24                    | 22.79          | 14.60              | 29.33                                 | 54.83                            | 28,78                                   | 0,72              | 0.57                | 84.67        | 1.52                                                | 1.5     |
| T88D810    | N/C     |                        |                        |                         |                            |                                   | •                       |                |                    |                                       |                                  |                                         |                   |                     |              |                                                     |         |
| T2011011   | 11      |                        | 70 41                  | 20.40                   | 0.00                       | n.¢¢                              | 0.64                    | 20.97          | 12.07              | <b>20.55</b>                          | <i>(</i> <b>( )</b>              |                                         |                   |                     |              |                                                     |         |
| 1000001    | 10      | •                      | 13 03                  | 37.49                   | 0.00                       | 0.00                              | 0.04                    | 20,80          | 14.8/              | 20.56                                 | 65,93                            | 30,58                                   | 2.33              | 2.0I                | 88,95        | 1.49                                                |         |
|            | 0       |                        | 43.92                  | 44.03                   | 0.93                       | 0,52                              | 0.47                    | 11.52          | 8.87<br>11.09      | 22.01                                 | 68,63                            | 32.02                                   | 2.89              | 2.29                | 95.54        | 1.39                                                |         |
|            | 8       |                        | 47.76                  | 48.99                   | 1 73                       | 0.70                              | 0.55                    | 27.13          | 11.03              | 22,12                                 | 00.30                            | 31.01                                   | 3,83              | 1.47                | 72.11        | 1.59                                                | 0,5     |
|            | · ·     |                        | 51 10                  | 51 53                   | 0.43                       | 0.70                              | 0.55                    | 27.17          | 10.03              | 22.12                                 | 60,50                            | 31,01                                   | 3.83              | 1,47                | 72.11        | 1.59                                                | 0.5     |
| •          | តា      |                        | 51.10                  | 01.00                   | 0,43                       | 0,01                              | 0,52                    | 27,10          | 10.91              | . 20,05                               | 60,52                            | 28.48                                   | 3.89              | 3,99                | 72,77        | 1.60                                                |         |
|            | G       |                        | 65 21                  | 66 10                   | 0.02                       | 0.81                              | 0.72                    | 1 19 65        | 20.10              | <b>10</b> 55                          | 55 46                            | 65.55                                   |                   | · · · ·             |              |                                                     |         |
|            | Ser     |                        | 68.80                  | 68.95                   | 0.76                       | 0.01                              | 0.10                    | 42,03          | 10.10              | 22.00                                 | 20,40                            | 27.37                                   | 0,49              | 1,40                | 54,42        | 1,76                                                | , 0.5   |
|            | 511     |                        | 75 50                  | 75 61                   | 011                        |                                   |                         |                |                    |                                       |                                  | •                                       | •                 |                     |              |                                                     |         |
|            | 5 Prine |                        | 75.61                  | 76 40                   | 0.79                       |                                   |                         |                |                    |                                       |                                  |                                         |                   |                     |              |                                                     |         |
|            | SI SI   |                        | 76.40                  | 76.80                   | 0.15                       |                                   | 0.76                    | 26.49          | 76 <u>80</u>       | <b>ai ta</b>                          | <i>t</i> a 63                    | A 1 AA                                  |                   | A                   |              |                                                     |         |
|            | 4       |                        | 78 75                  | 79.02                   | 0.77                       | 0,88                              | 0.60                    | 55.48          | 20.67              | 24.32                                 | 40.VJ                            | 24,82                                   | • 2,35            | 0.52                | 73.00        | 1.67                                                | 1,5     |
|            | 311     | -                      | 81.70                  | 87 40                   | 0.70                       | 0.04<br>6 A A                     | 0.66                    | 10 17          | 14.47              | 11 01<br>11 01                        | 20,08                            | 20,04                                   | 0.89              | 0.57                | 30,81        | 1,94                                                | 1.0     |
|            | 3 Petro |                        | 87 AD                  | 83 10                   | 0.70                       | v.u7                              | 0,00                    | 40.43          | 19.97              | 25,62                                 | 01,04                            | 30.02                                   | 6,31              | Í*80                | 46.03        | 1.73                                                | 1,5     |
|            | 31      |                        | 02,40<br>23 10         | 84 32                   | 1 79                       | 0.65                              | 0.49                    | 14.04          | 12.40              | 55.00                                 | ·                                | ** **                                   |                   |                     |              |                                                     |         |
|            | 2       |                        | 96 10                  | 98 14                   | 1.25                       | 0,00                              | 0.77                    | 10.24          | 12.92              | 20,96                                 | 01,04<br>60 10                   | 30,84                                   | 1,43              | 1,11                | 92.51        | 1.45                                                | 1,5     |
|            | 21.     |                        | 08 05                  | 99.49                   | 0.54                       | 0,00                              | 0.87                    | 10 42          | 14 30              | 20,17                                 | 50.1Z                            | 30.03                                   | 0.51              | 0.38                | 84,45        | 1.49                                                | 1.5     |
|            | 412     |                        | 20'23                  | 27.42                   | V.J4                       | 0.93                              | V.8/                    | 19.33          | 14,30              | 24.99                                 | 59.84                            | 30,21                                   | 0.86              | 0,61                | 84.63        | 1.48                                                | 1.5     |

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|         | CE IM   | SEAM | DRILLED SI | EAM INT'RVL | SEAM   | RESIDUAL M   | OISTURE | A           | 511          | VOLATILE MATTER  | FIXED CARBON                           | CALORIFIC VALUE      | SUL      | PHUR        | YIELD          | SPECIE<br>GRAVI   | 1C<br>TY :        | F.S.L       |
|---------|---------|------|------------|-------------|--------|--------------|---------|-------------|--------------|------------------|----------------------------------------|----------------------|----------|-------------|----------------|-------------------|-------------------|-------------|
| #       | SEAM    | (%)  | Р76Ш<br>(1 | 18<br>n)    | (m)    | . idw<br>(%) | Çican   | Kaw<br>4 (1 | Gican<br>(6) | Raw Clean<br>(%) | Raw Clean<br>(%)                       | Raw Clean<br>(MJ/kg) | Raw<br>( | Clean<br>%) | (%)            | Raw (<br>(g/cc) ( | Wabblty<br>(g/cc) |             |
| T88D812 | 8 '     |      | 20,70      | 21,01       | 0.31   |              |         |             |              |                  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | *                    |          |             |                |                   | •                 |             |
|         | 7       |      | 32.10      | 33.00       | 0,90   | 0.54         | 0.38    | 19.25       | 12.85        | 22 30            | 64 47                                  | 30.79                | 1.56     | 1.46        | 89.10          | 1 <i>m</i>        |                   |             |
|         | 6U      |      | 44,39      | 45,25       | 0,86   | 0.61         | 0.57    | 23.97       | 9.33         | 27.21            | 67.89                                  | 32.10                | 1.00     | 1.90        | 00.47          | 1.40              |                   | 0,5         |
|         | 6 Pring |      | 45.25      | 46,80       | 1.55   |              |         |             |              |                  | 52,67                                  | 22.10                | 4.1.     | 1,00        | 10,07          | 1.33              |                   | 4.2         |
|         | 6L -    |      | 46.80      | 47.80       | 1.00   | 0,75 0       | 0,73    | 20.19       | 10.91        | 25.92            | 67 44                                  | 30.98                | 3 58     | 1 80        | <b>81 10</b>   | 1.40              |                   | 1.0         |
|         | 7       |      | 51,80      | 52,23       | 0,43   | 0,68         | 0,56    | 30.58       | 17.78        | 23.98            | 57.68                                  | 28 20                | 7.56     | 6.68        | 76 17          | 1.61              |                   | 1.0         |
|         | 5ex     |      | 55.10      | 55.95       | 0.85   | 0.91         | 0.97    | 13.30       | 11.74        | 26.55            | 60 74                                  | 30.17                | 0.87     | 0.64        | 91 10          | 1.01              |                   | 1,5         |
|         | Sex     |      | 56.3 I     | \$7.42      | 1,11   | 0.93 (       | 0.76    | 30.81       | 13.16        | 24.74            | 61.34                                  | 29.68                | 0.44     | 0.52        | 71 55          | 1.41              |                   | 1,5         |
|         | 5Ų      |      | 64,29      | 64,69       | 0,40   | 1.26         | 0.97    | 52,87       | 26,76        | 24.71            | 47.56                                  | 24 87                | 0.78     | 1 13        | 1947           | 1.01              |                   | 4.5         |
|         | SU Prig |      | 64,69      | 64.94       | 0.25   |              |         |             |              |                  |                                        | - 101                | 0,75     | 1.10        | 1201           | 1.30              |                   | 4,2         |
|         | SU      |      | 64.94      | 65,59       | 0,65   | 1.09         | 0,92    | 33.02       | 20.91        | 26.39            | 51.78                                  | 26 50                | 0.73     | 0.10        | 66.00          | 1.64              |                   | 20          |
|         | 5 Pring |      | 65.59      | 66,39       | 0,80   |              |         |             |              |                  | - •••                                  |                      |          | 0,10        | 00.07          | 1.07              |                   | <b>4</b> .V |
|         | 5L.     |      | 66,39      | 66.80       | 0.41   | 1.12         | 0,93    | 55,82       | 27.92        | 25.79            | 45.36                                  | 24 39                | 1 12     | 1.65        | 23.68          | 1.05              |                   | 10          |
|         | 5L Prtg |      | 66.80      | 67.20       | 0.40_  |              |         |             |              |                  |                                        | - 11- 5              |          | 1.00        | 10,00 .        | 1.75              |                   | 4.0         |
|         | 5L      |      | 67,20      | 67,45       | 0.25   | 0,96         | 0.87    | 56,89       | 23,13        | 25.70            | 50.30                                  | 25.77                | 032      | 0.65        | 25 17          | 1 07              |                   | 20          |
|         | 4U      |      | 69.02      | 70.04       | 1.02   | 0.78         | 0.68    | 40.30       | 15,65        | 27.04            | 56.63                                  | 29.00                | 2.19     | 1.58        | 50.71          | 1 71              |                   | 2.0         |
|         | 4 Prtng |      | 70.04      | 70.97       | 0.93   |              |         |             |              | •                |                                        |                      |          | 1.00        | 20.71          |                   |                   | 2.0         |
|         | 4       |      | 70,97      | 72,10       | 1.13   | 0,66         | 0.61    | 39.76       | 17,46        | 27.47            | 54.46                                  | 27.72                | 0.94     | 0.82        | 58 87          | 1 72              |                   | 20          |
|         | 3U      |      | 75,00      | 76,10       | 1.10   | 0.64         | 0.59    | 13,52       | 9.09         | 27,75            | 62.57                                  | 31.71                | 2.25     | 1.46        | 92.89          | 1 41              |                   | 15          |
|         | 3 Pring |      | 76.10      | 76.55       | 0.45   |              |         |             |              |                  |                                        |                      |          | ****        | 22.07          | 1.41              |                   | 1.2         |
|         | 3L      |      | 76,55      | 77,90       | . 1.35 | 0,83         | 0,69    | 22.40       | 12.21        | 26.02            | 61.08                                  | 30.28                | 1.43     | 1.11        | 85 17          | 151               |                   | 20          |
|         | 2       |      | 93,56      | 96,61       | 3,05   | 0.92         | 0.86    | 18.41       | 11.79        | 26,95            | 60.40                                  | 30.66                | 0.47     | 0.43        | 86.01          | 147 .             |                   | 25          |
|         | 2L,     |      | 97.31      | 97.91       | 0.60   | 1,14         | 0,99    | 22,14       | 14.80        | 25,20            | 59.01                                  | 29.17                | 1.39     | 0.96        | 84 52          | 1.51              |                   | 2.5         |
|         |         |      |            |             | •      |              |         |             |              |                  |                                        |                      | 4,00     | 0.70        | 01.52          | 1.21              |                   | 2,2         |
| T88D813 | ?       |      | 43,81      | 44,06       | 0.25   | 0,79         | 0.55    | 60.20       | 14,66        | 27.43            | 57.36                                  | 29.93                | 1.10     | 2.95        | 37.39          | 2 02              |                   | 35          |
|         | ?       |      | 111.80     | 112.64      | 0.84   | 0.74         | 0.69    | 36.03       | 18,43        | 25.64            | 55.24                                  | 27.80                | 2.38     | 0.73        | 70.36          | 1.67              | •                 | 1.0         |
|         |         |      |            |             |        |              |         |             |              |                  |                                        |                      |          | -11-2       | 10.00          |                   |                   |             |
| T88D814 | 11      |      | 24,67      | 25.11       | 0,44   | 0,89         | 0.74    | 27.08       | 19,77        | 30.85            | 48,64                                  | 27.78                | 2.99     | 2.35        | 84.43          | 1.57              |                   | 5.0         |
|         | 10      |      | 29,59      | 30,46       | 0.87   | 0.87         | 0.78    | 21.15       | 10,46        | • 31.14          | 57.62                                  | 30.70                | 4,75     | 3,58        | 81.01          | 1.50              |                   | 3.0         |
|         | 9       |      | 33.20      | 33.76       | 0.55   | 0,93         | 0,86    | 33,73       | 15.71        | 30.58            | 52.85                                  | 29.19                | 4.71     | 3.34        | 59.69          | 1.64              |                   | 5.0         |
|         | •8**    |      | 36,99      | 37,00       | 0.01   |              |         |             |              |                  |                                        | ,                    |          |             |                |                   |                   |             |
|         | +7++    |      | 50,00      | 50,00       |        |              |         | •           |              |                  | •                                      |                      |          |             |                |                   |                   |             |
|         | 6U      |      | 55.50      | 56.98       | 1.48   | 0.80         | 0.75    | 19,23       | 9.00         | 33,39            | 56.86                                  | 32,19                | 2,40     | 1.42        | 84.29          | 1.48              |                   | 5.0         |
|         | 6 Prtng |      | 56,98      | 58,27       | 1.29   |              |         |             |              |                  |                                        | •                    |          |             |                |                   |                   |             |
|         | 6L      |      | 58,27      | 59,80       | 1.53   | 0.74         | 0.79    | 18.03       | 9,11         | 29.71            | 60.39                                  | 31.86                | 2.08     | 0.85        | 83.04          | 1.46              |                   | 3.0         |
|         | ?       |      | 60.85      | 61.24       | 0.39   | 1,02         | 1,06    | 61,86       | 25.44        | 27,06            | 46.44                                  | 25,41                | 0,40     | 0.70        | 14,63          | 2,05              |                   | 7.5         |
|         | et 1    |      | 70.10      | 72.20       | 2.00   |              |         |             |              |                  |                                        |                      |          |             |                |                   |                   |             |
|         | 3U      |      | 70,12      | 72,20       | 2,08   |              |         |             |              |                  |                                        |                      |          |             |                |                   |                   |             |
|         | o Pring |      | 72.20      | 72.20       |        |              |         |             |              |                  |                                        |                      |          |             |                |                   |                   |             |
|         | 5L      |      | 72,20      | 73.41       | 1.21   | 0.07         | A 75    |             |              |                  |                                        |                      |          |             |                |                   | ,                 |             |
|         | \$      |      | 70.12      | 73.41       | 3.29   | 0.83         | 0.75    | 15,78       | 11,49        | 28.03            | 59.73                                  | 30.79                | 0,56     | 0,51        | 93.99          | I.44              |                   | 1.5         |
|         | 4       |      | 74,04      | 76,11       | 2,07   | 0.69         | 0.57    | 12.56       | 10.63        | 29.74            | 59.05                                  | 32.30                | 0.62     | 0.61        | 97 51          | 1.40              |                   | 2.0         |
|         | 3U      |      | 79.14      | 80.20       | 1.05   | 0.62         | 0,54    | 23.48       | 12,24        | 28.96            | 58.26                                  | 30.63                | 1.80     | 146         | 27.01<br>80.80 | 1.40              |                   | 3,0<br>7 S  |
|         | 3 Pring |      | 80,20      | 80.86       | 0.66   |              |         |             |              |                  | •••••                                  | 50,05                | 1.00     | 41.74       | 69,09          | 20.2              |                   | 4,3         |
| •       | 3L      |      | 80.86      | 81.98       | 1.12   | 0.84         | 0,79    | 18,77       | 14,18        | 27.51            | 57.52                                  | 29.74                | 2.07     | 1 28        | 91.09          | 1.47              |                   | 15          |
|         |         |      |            |             |        |              |         |             |              |                  | * 1100                                 | 42.17                | 2.07     | 1.00        | 11.20          | 1,41              |                   | 1.2         |

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| drill-hole<br># | SEAM          | SEAM<br>REC'VRY<br>(%) | DRILLED SEAM IN<br>From To<br>(m) | f'RVL SEAM<br>THICKN'S<br>(m) | RESIDUAL MOISTURE<br>Raw Clean<br>(%) | ASH<br>Raw Clean<br>(%) | VOLATILE MATTER<br>Raw Clean<br>(%) | FIXED CAREON<br>Raw Clean<br>(%) | CALORIFIC VALUE<br>Raw Cican<br>(MJ/Rg) | SULPHUR<br>Raw Clean<br>(%) | YIELD<br>(%) | SPECIFIC<br>GRAVITY<br>Raw Wibbliy<br>(g/cc) (g/cc) | F.S.L   |
|-----------------|---------------|------------------------|-----------------------------------|-------------------------------|---------------------------------------|-------------------------|-------------------------------------|----------------------------------|-----------------------------------------|-----------------------------|--------------|-----------------------------------------------------|---------|
| 9R908           | 7             |                        | 47.63 47.9                        | 5 033                         |                                       |                         |                                     |                                  |                                         |                             |              |                                                     | ······· |
|                 | 2             |                        | 54.73 55.6                        | 0.91                          |                                       |                         |                                     |                                  |                                         |                             |              | ¥                                                   |         |
|                 | ស             |                        | 56.94 58.1                        | 5 1.22                        |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 6 Pring       |                        | 58.16 59.2                        | ) 1.04                        |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 6L -          |                        | 59.20 61.4                        | 7 2.27                        |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | ?             |                        | 61,82 62,6                        | 0.86                          |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | ?             |                        | 62.68 64.7                        | 5 2.07                        |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 5ex           |                        | 72,05 73,1                        | 1.05                          |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 |               |                        |                                   |                               |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 |               |                        |                                   |                               |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
| 9R909           | សា            |                        | 26,88 27,8                        | 2 0,94                        |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 6 Pring       |                        | 27.82 29.3                        | ) 1.48                        |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 6L            |                        | 29.30 29.6                        | ) 0,30                        |                                       | ,                       |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | Pring         |                        | 29.60 29.7                        | 0,19                          |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 6L.           |                        | 29.79 31.3                        | ) I.60                        |                                       |                         |                                     | ٠                                |                                         |                             |              |                                                     |         |
|                 | Jex           |                        | 31.39 32.5                        | ) I,II<br>1 070               |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 4             |                        | 43.17 43.8                        | r 0,70                        |                                       |                         | -                                   |                                  |                                         |                             |              |                                                     |         |
|                 | 30<br>7 Detec |                        | 40,09 47,2                        | · 1.15                        |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 31.012        |                        | 47.50 49.0                        | 0.33                          |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 2             |                        | 47,00 47,0<br>55 40 57 4          | , 1,40<br>) 7,60              |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 21.           |                        | 5934 5934<br>5934 598             | 0.00                          |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 |               |                        | 50.54 50.0                        |                               |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
| 9R910           | ស             |                        | 30,55 31,8                        | 7 1.32                        |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 6 Pring       |                        | 31.87 32.5                        | 3 0.71                        |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
| 3               | 6L            |                        | 32.58 34.1                        | 1.59                          |                                       | •                       |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 5/6 Prtg      |                        | 34.17 34.7                        | 0,62                          |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | Sex           |                        | 34,79 36,3                        | 1.54                          |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 5U            |                        | 46.48 47.0                        | 3 0.60                        |                                       |                         |                                     |                                  |                                         |                             | •            |                                                     |         |
|                 | 5 Pring       |                        | 47,08 48,0                        | 0.92                          |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 5L            |                        | 48.00 48.7                        | 0.70                          |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 4             |                        | 51.12 52.8                        | 5 1,73                        |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 3U            |                        | 55,60 56,3                        | 5 0,76                        |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 3 Pring       |                        | 56,36 56,8                        | 0.47                          |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 3L            |                        | 56.83 57.6                        | ) 0.77                        | •                                     |                         |                                     |                                  |                                         |                             |              |                                                     |         |
|                 | 2             |                        | 67,52 67,9                        | 5 0.44                        |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |         |

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File Name: TK94PIT8.XLS

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| DRILL-HOLE | SEAM           | SEAM<br>REC'VRY<br>(%) | DRILLED SI<br>From<br>( | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL MOISTURE<br>Raw Clean<br>(%) | ASH<br>Raw Clean<br>(%) | VOLATILE MATTER<br>Raw Clean<br>(%) | FIXED CARBON<br>Raw Cican<br>(%) | CALORIFIC VALUE<br>Raw Clean<br>(MI/kg) | SULPHUR<br>Raw Clean<br>(%) | YIELD<br>(**) | SPECIFIC<br>GRAVITY<br>Raw Wahblty<br>(g/cc) (g/cc) | F.S.L |
|------------|----------------|------------------------|-------------------------|-------------------------|-------------------------|---------------------------------------|-------------------------|-------------------------------------|----------------------------------|-----------------------------------------|-----------------------------|---------------|-----------------------------------------------------|-------|
| T89R911    | 9              |                        | 6,00                    | 7,10                    | 1.10                    |                                       |                         |                                     |                                  | • "                                     | •                           | ٠             |                                                     |       |
|            | 8              |                        | 8,80                    | 9,65                    | 0.85                    |                                       |                         | •                                   |                                  |                                         |                             |               |                                                     |       |
|            | 6U             |                        | 28.24                   | 28.84                   | 0.60                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 6U Prtg        |                        | 28.84                   | 29,15                   | 0,31                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 6U             |                        | 29.15                   | 29.74                   | 0.59                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 6 Pring        |                        | 29.74                   | 30.50                   | 0.76                    | <i>i</i>                              |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | DL<br>5/6 Dete |                        | 30.50                   | 32.43                   | 1.93                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 5m             |                        | 32.43                   | 32.00                   | 0.43                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 50             |                        | 42.30                   | 43.18                   | 0.88                    |                                       |                         |                                     | •                                |                                         |                             |               |                                                     |       |
|            | 5 Pring        |                        | 43.18                   | 44.10                   | 0.92                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 5L             |                        | 44,10                   | 44.65                   | 0.55                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 4U             |                        | 46.69                   | 47.08                   | 0.39                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 4 Pring        |                        | 47.08                   | 48.10                   | 1.02                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 4              |                        | 48.10                   | 48.70                   | 0.60                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 30             |                        | 51,40                   | \$2,26                  | 0,86                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 3 Pring        |                        | 52.26                   | 53.28                   | 1.02                    | ×                                     |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | ياد<br>م       |                        | 23,28                   | 34,07                   | 0.79                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 21.            |                        | 71.67                   | 72.28                   | 0.61                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            |                |                        | 11107                   |                         |                         |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
| T89R912    | 9              |                        | 6.32                    | 6.84                    | 0.52                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
| •          | 8              |                        | 8.49                    | 10.00                   | 1.51                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | ល              |                        | 29.59                   | 30.82                   | 1.23                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 6 Pring        |                        | 30.82                   | 31.81                   | 0.99                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 0L<br>5        |                        | 31.81                   | 33,42                   | 1.04                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 511            |                        | 33.40<br>41.55          | 47 32                   | 0.72                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 5 Pring        |                        | 42.32                   | 43.18                   | 0.86                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | SL             |                        | 43.18                   | 43.77                   | 0.59                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | • 4            |                        | 46,62                   | 47,55                   | 0,93                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 3U             |                        | 49,38                   | 50,28                   | 0,90                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     | •     |
|            | 3 Prtng        |                        | \$0.28                  | 50.81                   | 0.53                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 3L             |                        | 50,81                   | 51.89                   | 1,08                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 2              | •                      | 60,97                   | 64,36                   | 3.39                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
| T89R913    | 7              |                        | 8.04                    | 8.27                    | 0.23                    | ,                                     |                         |                                     |                                  |                                         |                             |               |                                                     |       |
| <b></b>    | ŠŪ             |                        | 9,00                    | 10,11                   | 1.11                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 5 Pring        |                        | 10.11                   | 10.60                   | 0.49                    |                                       | *                       |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 5L             |                        | 10.60                   | 11.15                   | 0,55                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 4              |                        | 12.65                   | 14.36                   | 1.71                    |                                       | •                       |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 3U             |                        | 15,59                   | 16.44                   | 0.85                    |                                       |                         |                                     |                                  |                                         |                             | •             |                                                     |       |
|            | 3 Prtng        |                        | 16,44                   | 16.80                   | 0.36                    |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            | 3L             |                        | 16.80                   | 17.76                   | 0.96                    |                                       |                         |                                     |                                  |                                         | •                           |               | •                                                   |       |
|            | z              |                        | 28.28                   | 32,24                   | 3,96                    |                                       |                         | ),<br>J                             |                                  |                                         |                             |               |                                                     |       |
|            |                |                        |                         |                         |                         |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |
|            |                |                        |                         |                         |                         |                                       |                         |                                     |                                  |                                         |                             |               |                                                     |       |

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| AL10/22/96 |  |
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| driil-hole<br># | SEAM    | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>( | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw<br>( | MOISTURE<br>Clean<br>%) | A<br>Raw<br>(  | SH<br>Clean<br>%) | VOLATILE MATTER<br>Raw Cican<br>(%) | FIXED CARBON<br>Raw Clean<br>(%) | CALORIFIC VALUE<br>Raw Clean<br>(MIJ/kg) | SULI<br>Raw<br>(' | PHUR<br>Clean<br>W) | YIELD<br>(%) | SPE<br>GRA<br>Raw<br>(g/cc) | CIFIC<br>VITY<br>Wabbliy<br>(g/cc) | F.S.L    |
|-----------------|---------|------------------------|------------------------|-------------------------|-------------------------|----------------------|-------------------------|----------------|-------------------|-------------------------------------|----------------------------------|------------------------------------------|-------------------|---------------------|--------------|-----------------------------|------------------------------------|----------|
| T89R915         | N/C     |                        |                        |                         |                         |                      |                         |                | •                 |                                     |                                  |                                          |                   |                     |              |                             |                                    | <u> </u> |
| T89D920         | Sex     |                        | 11.89                  | 11,96                   | 0.07                    |                      |                         |                |                   |                                     |                                  |                                          |                   |                     | ,            |                             |                                    |          |
|                 | 5U      |                        | 18.92                  | 20,25                   | 1.33                    | 0.99                 | 0.57                    | 50,04          | 19.33             | 25.26                               | 54,84                            | 27.65                                    | 2.33              | 0,94                | 36,27        | 1.86                        |                                    | 2.0      |
|                 | 5 Pring |                        | 20.25                  | 20.88                   | 0.63                    | 0,74                 |                         | 72,15          |                   |                                     |                                  |                                          | 2.57              |                     |              | 2.24                        |                                    |          |
|                 | 5E.     |                        | 20.88                  | 21,79                   | 0.91                    | 0.86                 | 0.67                    | 41.28          | 18.82             | 26,36                               | 54,15                            | 27,98                                    | 1.57              | 1.19                | 40.69        | 1.74                        |                                    | 3.5      |
|                 | 4       |                        | 22,71                  | 24,75                   | 2,04                    | 0.70                 | 1.03                    | 36,99          | 14.93             | 27.62                               | 56,42                            | 28.73                                    | 0,58              | 0.63                | 57.71        | 1.68                        |                                    | 2.0      |
|                 | 30      |                        | 26.04                  | 26.96                   | 0.92                    | 0,64                 | 3,31                    | 13,17          | 9.63              | 26,10                               | 60.96                            | 30,82                                    | 2,01              | 1.31                | 90.96        | 1.41                        |                                    | 1.5      |
|                 | 3 Pring |                        | 20,90                  | 27,39                   | -0,43                   | 1.15                 |                         | 85.35          |                   |                                     |                                  |                                          | 2.40              |                     |              | 2.55                        |                                    |          |
|                 | -16     |                        | 21,37                  | 40.00                   | 1.05                    | 0.80                 | 4.40                    | 18,99          | 12,09             | 24.18                               | \$9,27                           | 29,42                                    | 1.35              | 1,05                | 90.34        | 1.47                        |                                    | l.5      |
|                 | 2<br>2L |                        | 40.81                  | 41.28                   | 0,47                    | 0,65                 | 1,01                    | 19.70          | 10.35             | 28.82                               | 59.22                            | 30,56                                    | 1.38<br>0.73      | 0.88                | 80,39        | 1.46<br>1.48                |                                    | 2.5      |
| T89D921         | 11      |                        | 27.46                  | 28.53                   | 1.07 •                  | 0,56                 | 2.20                    | 17.14          | 11.87             | 21,73                               | 64 20 ·                          | 30.27                                    | 2.69              | 2 10                | 88.35        | 1.45                        |                                    |          |
|                 | 10      |                        | 34,19                  | 35,14                   | 0,95                    | 0,47                 | 4.03                    | 15.73          | 10,40             | 20.46                               | 65.11                            | 30.84                                    | 3.05              | 2.34                | 87 97        | 1.43                        |                                    | 15       |
|                 | 9       |                        | 36,55                  | 36,98                   | 0.43                    | 0.51                 | 1.17                    | 23.71          | 14,45             | 22.64                               | 61.74                            | 29.68                                    | 7 77              | 4 84                | 68.45        | 1.53                        |                                    | 1.5      |
|                 | 8       |                        | 37.28                  | 38.99                   | 1.71                    | 0,68                 | 2,77                    | . 17,24        | 11,40             | 22.19                               | 63.64                            | 29.21                                    | 2.01              | 1.61                | 82 51        | 1.45                        |                                    | 0.5      |
|                 | 7       |                        | 41,60                  | 41,84                   | 0.24                    |                      |                         |                |                   |                                     |                                  |                                          |                   |                     | 02.21        | 1,40                        |                                    | 0.5      |
|                 | 6Ų      |                        | 63,25                  | 64,68                   | 1.43                    | 0.25                 | 2.37                    | 23,52          | 7,35              | 26.72                               | 63.56                            | 31.71                                    | 2.47              | 1.69                | 71.02        | 1.52                        |                                    | 3.0      |
|                 | 6 Prtng |                        | 64.68                  | 65.94                   | 1.26                    | 0.67                 |                         | 80,53          |                   |                                     | •                                |                                          | 6.10              |                     |              | 2.43                        |                                    |          |
|                 | 6L      |                        | 65.94                  | 67,96                   | 2,02                    | 0,79                 | 2.09                    | 42,07          | 9.30              | 26,14                               | 62.47                            | 31.22                                    | 2,22              | 1.31                | 46.37        | 1.75                        |                                    | 2.5      |
|                 | 5ex     |                        | 71.99                  | 73,58                   | 1.59                    | 0.82                 | 1.93                    | 37.95          | 14.32             | 23.35                               | 60,40                            | 28,97                                    | 0.79              | 0.66                | 58,77        | 1.70                        |                                    | 0.5      |
|                 | 5U      |                        | 78,85                  | 80,16                   | 1.31                    | 0.51                 | 2.48 ·                  | 23,77          | 11,70             | 26.41                               | 59,41                            | 29.98                                    | 2.61              | 1.09                | 72.31        | 1.53                        |                                    | 2,5      |
|                 | 5 Prtng |                        | 80.16                  | 80.96                   | 0.80                    | 0.71                 |                         | 81,30          |                   |                                     |                                  |                                          | 1,86              |                     | • 、          | 2.45                        |                                    |          |
|                 | SL.     |                        | 80,96                  | 81.60                   | 0,64                    | 0,63                 | 1.42                    | 31.40          | 18.71             | 26,15                               | 53.72                            | 27.74                                    | 2.20              | 1.31                | 63.81        | 1,62                        |                                    | 3.0      |
|                 | 4       |                        | 82.60                  | 84.44                   | 1.84                    | 0.80                 | 2.22                    | 29,91          | 10.12             | 26.77                               | 60.89                            | 30.51                                    | 1,38              | 0.97                | 69,08        | 1.60                        |                                    | 1.5      |
|                 | 30      |                        | 85.84                  | 86.82                   | 0.98                    | 0,71                 | 2.67                    | 17,56          | 10,37             | 27,41                               | 59.55                            | 30,78                                    | 0,83              | 1.20                | 87.64        | 1.46                        |                                    | 2.5      |
|                 | 3 Pring |                        | 86.82                  | 87.23                   | 0,41                    |                      |                         | 82.20          |                   |                                     |                                  |                                          | 3.26              |                     |              | 2.47                        | ,                                  |          |
|                 | 31      | •                      | 87,23                  | 88,24                   | 1.01                    | 0.76                 | 3.30                    | 17.95          | 12,54             | 24.88                               | . 59,28                          | 29,24                                    | 1.01              | 0,90                | 90,54        | 1.46                        |                                    | 1.0      |
|                 | 2       |                        | 96.14                  | 98.76                   | 2.62                    | 0.84                 | 1,09                    | 26,68          | 12,59             | 28.19                               | 58.13                            | 29.80                                    | 1.13              | 0,88                | 73.46        | 1.56                        |                                    | 2.0      |
|                 | 21.12   |                        | 98,70                  | 98,96                   | 0,20                    | 0,99                 | 1.00                    | 80.39<br>06.6P | 10.00             |                                     |                                  |                                          | 0.52              |                     |              | 2.43                        |                                    |          |
|                 |         |                        | 20,20                  | 33.43                   | 0.55                    | <b>V.</b> 84         | 1.09                    | 20.08          | 12.59             | 28.19                               | 58,13                            | 29,80                                    | 1.13              | 0,88                | 73,46        | 1,56                        |                                    | 2.0      |
| T89D922         |         |                        |                        |                         |                         |                      |                         |                |                   | ,                                   |                                  |                                          |                   |                     | -            |                             |                                    |          |
| T89D923         | ?       |                        | 7.36                   | 7.49                    | 0.13                    |                      |                         |                |                   |                                     |                                  |                                          |                   |                     |              |                             |                                    |          |
|                 | 4       |                        | 11.04                  | 11.52                   | 0,48                    | 1.05                 | 1,15                    | 29.44          | 13.05             | 30,96                               | 54.83                            | 30.17                                    | 4.30              | 3.05                | 61,88        | 1.59                        |                                    | 3.0      |
|                 | 3U      |                        | 12,69                  | 14.82                   | 2.13                    | 1.33                 | 1.52                    | 15.77          | 9,48              | 28.61                               | 60,39                            | 30.78                                    | 1,86              | 1.04                | 85,95        | 1.44                        |                                    | 1.5      |
|                 | 3 Pring |                        | 14.82                  | 15.16                   | 0.34                    | 0,85                 |                         | 81,54          |                   |                                     |                                  |                                          | 2,88              | 1                   |              | 2.45                        |                                    |          |
|                 | 3L      |                        | 15,16                  | 15.71                   | 0.55                    |                      |                         |                |                   |                                     |                                  |                                          |                   |                     |              |                             |                                    |          |
|                 | 2       |                        | 28.36                  | 30.28                   | 1.92                    | 0.57                 | 1.13                    | 44,75          | 7.84              | 31.68                               | 59,35                            | 31.87                                    | 1,85              | 1.48                | 48.41        | 1.79                        |                                    | 3.0      |
|                 | 2LP     |                        | 30,28                  | 30,92                   | 0.64                    | 0.43                 |                         | 83,17          |                   |                                     |                                  |                                          | 0,81              |                     |              | 2,49                        |                                    |          |
|                 | 2L      |                        | 30,92                  | 31.34                   | 0.42                    | 0.88                 |                         | 12.82          | -                 |                                     |                                  |                                          | 1.02              |                     |              | 1.40                        |                                    |          |

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File Name: TK94PIT8, XLS

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| drill-hole<br># | SEAM    | SEAM<br>REC'VRY<br>(%) | DRILLED \$<br>From<br>( | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw<br>(' | MOISTURE<br>Cican<br>%) | Ai<br>Raw<br>(1 | Slí<br>Clean<br>%) | VOLATILE<br>Ra <del>n</del><br>(% | MATTER<br>Cleán<br>) | FIXED (<br>Raw<br>(* | CARBON<br>Clean<br>%) | CALORIF<br>Raw<br>(MJ | IC VALUE<br>Clean<br>/kg) | SULI<br>Ravi<br>(" | PHUR<br>Clean<br>(4) | YIELD<br>(%) | SPEC<br>GRA<br>Raw<br>(g/cc) | VITY<br>Wibbliy<br>(g/ce) | F.S.L    |
|-----------------|---------|------------------------|-------------------------|-------------------------|-------------------------|-----------------------|-------------------------|-----------------|--------------------|-----------------------------------|----------------------|----------------------|-----------------------|-----------------------|---------------------------|--------------------|----------------------|--------------|------------------------------|---------------------------|----------|
| 89D924          | 9       |                        | 11.94                   | 12.20                   | 0.26                    | 0.80                  |                         | 19.85           |                    |                                   |                      | · · ·                |                       |                       |                           | 4.16               |                      |              | 1 40                         |                           | <u> </u> |
|                 | 2       |                        | 13.05                   | 13.14                   | 0.08                    | 0.87                  |                         | 17.53           |                    |                                   |                      |                      |                       |                       |                           | 7.50               |                      |              | 1.46                         |                           |          |
|                 | 8       |                        | 13,14                   | 15,34                   | 2,20                    | 0.84                  | 2.75                    | 20.81           | 10.91              |                                   | 27.30                | •                    | 59.04                 |                       | 29.85                     | 1.30               | 0.95                 | 83 AQ        | 1,40                         |                           | 1.6      |
|                 | ?       |                        | 18.60                   | 18.94                   | 0.34                    | 0,74                  |                         | 26.32           |                    |                                   |                      |                      |                       |                       | 23.03                     | 3.74               | 0.75                 | 65,67        | 1.45                         |                           | 1.5      |
|                 | 7       |                        | 29,60                   | 29,79                   | 0,19                    |                       |                         |                 |                    |                                   |                      | -                    |                       |                       |                           | -,-,               |                      |              | 1.50                         |                           |          |
|                 | 6L      |                        | 35.57                   | 37.25                   | 1.68                    | 0.86                  | 2.56                    | 15,07           | 8,15               |                                   | 28,96                |                      | 60,33                 |                       | 31.43                     | 1.95               | 1,02                 | 86.21        | 1,43                         |                           | 3,0      |
|                 | 5U      |                        | 39.80                   | 42.19                   | 2.39                    | •                     |                         |                 |                    |                                   |                      |                      |                       |                       | •                         |                    |                      |              |                              |                           |          |
|                 | 5 Prtng |                        | 42.19                   | 42.19                   |                         |                       |                         |                 |                    |                                   | •                    |                      |                       |                       |                           |                    |                      |              |                              |                           |          |
|                 | SL      |                        | 42.19                   | 43,36                   | 1,17                    |                       |                         |                 |                    |                                   |                      |                      |                       |                       | •                         |                    |                      |              |                              |                           |          |
|                 | 5       |                        | 39.80                   | 43,36                   | 3,56                    | 0.82                  | 1.77                    | 23.37           | 11.40              |                                   | 27.16                |                      | 59,67                 |                       | 29.93                     | 1.24               | 0.71                 | 80,32        | 1.52                         |                           | 2,0      |
|                 | 4       |                        | 44.17                   | 45.32                   | 1.15                    | 0,88                  | 3,34                    | 19.87           | 14,32              |                                   | 26.03                |                      | 56,31                 |                       | 28,99                     | 0.97               | 0.89                 | 84.07        | 1,48                         |                           | 1.0      |
| 89D925          | п       |                        | 89.48                   | 89.72                   | 0.24                    |                       |                         |                 |                    |                                   |                      |                      |                       |                       |                           |                    |                      |              |                              |                           |          |
|                 | 10      |                        | 97.38                   | 97.96                   | 0,58                    | 2.23                  | 1.36                    | 19.61           | 11.84              |                                   | 33 42                |                      | 53 38                 | , .                   | 30.87                     | 3 70               | 256                  | 70 19        | 1 40                         |                           |          |
|                 | 8       |                        | 101.93                  | 103.65                  | 1.72                    | 0.61                  | 3,35                    | 16.32           | 10.10              | ٠                                 | 27.41                |                      | 59.14                 |                       | 30.19                     | 0.00               | 0.67                 | 70,10        | 1.40                         |                           | 4,0      |
|                 | ?       |                        | 108.16                  | 108.24                  | 0.08                    |                       | -                       |                 |                    |                                   |                      |                      |                       |                       | 50.15                     | 0,20               | 0.01                 | 07.25        | 1,94                         |                           | 1.0      |
|                 | 7       |                        | 122.59                  | 122.81                  | 0.22                    |                       |                         |                 |                    |                                   |                      |                      |                       |                       | -                         |                    |                      |              |                              |                           |          |
|                 | 6U      |                        | 128,72                  | 130.24                  | 1.52                    | 0.35                  | 2.01                    | 10,79           | 6,49               |                                   | 31,90                |                      | 59,60                 |                       | 32.32                     | 2.00               | 1.53                 | 89.13        | 1.38                         |                           | 35       |
|                 | 6 Prtng |                        | 130.24                  | 131.00                  | 0.76                    |                       |                         | 88,14           |                    |                                   |                      |                      |                       |                       |                           | 1.57               |                      |              | 2.62                         |                           | 2,2      |
|                 | 6L      |                        | 131,00                  | 132.60                  | 1.60                    | 0,34                  | 2.10                    | 17.52           | 8.02               |                                   | 29.94                |                      | 59,94                 |                       | 31,76                     | 2.78               | 1.15                 | 76,90        | 1,46                         |                           | 2.0      |
|                 | SU      |                        | 142.94                  | 145.00                  | 2.06                    |                       |                         |                 |                    |                                   |                      | -                    |                       |                       |                           |                    |                      |              |                              |                           |          |
|                 | 5 Prtng |                        | 145.00                  | 145.00                  | •                       | •                     |                         |                 |                    |                                   |                      |                      |                       |                       |                           |                    |                      |              |                              |                           |          |
|                 | 5L      |                        | 145.00                  | 146.51                  | 1.51                    |                       |                         |                 |                    |                                   |                      |                      |                       |                       |                           |                    |                      |              |                              |                           |          |
|                 | 5       |                        | 142,94                  | 146.51                  | 3.57                    | 0.47                  | 2.32                    | 11,33           | 8,04               |                                   | 28,13                |                      | 61,51                 |                       | 31.47                     | 0.74               | 0,61                 | 91.81        | 1.39                         |                           | 2.0      |
|                 | 4       |                        | 147,60                  | 149,48                  | 1,88                    | 0,24                  | 1.91                    | 11,62           | 9,12               |                                   | 28,60                |                      | 60.37                 |                       | 31.26                     | 0.88               | 0.76                 | 96.50        | 1.39                         |                           | 3.0      |
|                 | 3U      |                        | 153.37                  | 154.44                  | 1.07                    | 0.40                  | 1,92                    | 14.68           | 9,59               | ,                                 | 28.51                |                      | 59,98                 |                       | 31.20                     | 2.05               | 1.32                 | 88.74        | 1.42                         |                           | 10       |
|                 | 3 Pring |                        | 154.44                  | 154.87                  | 0,43                    |                       |                         | 86,55           |                    |                                   |                      |                      |                       |                       |                           | 2,42               |                      |              | 2.58                         |                           | 3.0      |
|                 | 3L      |                        | 154,87                  | 155.91                  | 1,04                    | 0,66                  | 1.97                    | 17.47           | 11.80              |                                   | 27.13                |                      | 59.10                 |                       | 29.38                     | 2.00               | 1.27                 | 85,60        | 1.46                         |                           | 0.5      |
|                 | 2       |                        | 165,68                  | 169,30                  | 3.62                    | 0.68                  | 1.72                    | 16,38           | 9.32               |                                   | 28.22                |                      | 60.74                 |                       | 31.06                     | 1.09               | 0.71                 | 84,99        | 1.44                         |                           | 2,0      |
| D-02            | FAULT   |                        | 102,50                  |                         |                         |                       |                         |                 |                    |                                   |                      |                      |                       |                       |                           |                    |                      |              |                              |                           |          |
|                 | 4       | 100                    | 104,95                  | 106,08                  | 1.13                    | 0.76                  | 1.18                    | 47.16           | 16,43              |                                   |                      |                      |                       |                       |                           | 0.34               | 0,49                 | 42.21        | 1.82                         | 1.60                      |          |
|                 | 3U      | 100                    | 108.48                  | 109.53                  | 1,05                    | 0,53                  | 1.12                    | ,15.92          | 9.92               |                                   |                      |                      |                       |                       |                           | 2,42               | 1.40                 | 87,32        | 1,44                         | 1.60                      |          |
|                 | 2       | 100                    | 116.72                  | 119,51                  | 2,79                    | 0,98                  | 1.90                    | 24,00           | 10,10              | 23.44                             | 24.94                | 51.58                | 63,25                 | 25,65                 | 30,63                     | 0.54               | 0.46                 | 73,28        | 1,53                         | 1.60                      |          |
|                 | 2L,     | 100                    | 120,50                  | 120.97                  | 0.47                    | 1.19                  | 1,34                    | 23,56           | 14,09              |                                   | 24,94                |                      | 59,82                 |                       | 29.56                     | 4.15               | 1.09                 | 80.99        | 1.53                         | 1.60                      |          |
|                 |         |                        |                         |                         |                         |                       |                         |                 |                    |                                   |                      |                      |                       |                       |                           |                    |                      |              |                              |                           |          |

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| drill-Hole<br># | SEAM    | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>( | EAM INT'RVL<br>To<br>(m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw<br>( | MOISTURE<br>Clean<br>%) | A<br>Raw<br>, ( | SII<br>Clean<br>%) | VOLATIL<br>Raw<br>(' | E MATTER<br>Clean<br>%) | FIXED (<br>Raw<br>( | CARBON<br>Clean<br>%) | CALORIF<br>Ram<br>(Mi | IC VALUE<br>Clean<br>//kg) | SULI<br>Raw<br>(? | PHUR<br>Clean<br>%) | YIELD<br>(%) | SPE<br>GRA<br>Raw<br>(g/cc) | CIFIC<br>VITY<br>Walabity<br>(g/cc) | F.S.I. |
|-----------------|---------|------------------------|------------------------|--------------------------|-------------------------|----------------------|-------------------------|-----------------|--------------------|----------------------|-------------------------|---------------------|-----------------------|-----------------------|----------------------------|-------------------|---------------------|--------------|-----------------------------|-------------------------------------|--------|
| T92D-05         | 11      | 58                     | 66.52                  | 67.11                    | 0.59                    | 0.59                 | 2.54                    | 14 54           | 10.99              |                      |                         |                     |                       |                       |                            |                   | 0.70                |              |                             | 1.69                                |        |
|                 | 10      | 74                     | 71 84                  | 72.66                    | 0.82                    | 0.71                 | 2.48                    | 13.14           | 7.64               |                      |                         |                     |                       |                       |                            | 0.93              | 0,76                | 89.84        | 1.42                        | 1,60                                |        |
|                 | 8       | . 91                   | 75 48                  | 77 58                    | 2 10                    | 0.00                 | 2.66                    | 10.14           | 10.58              |                      |                         |                     |                       |                       |                            | 2.66              | 1.03                | 85.41        | 1,41                        | 1.60                                |        |
|                 | FAULT   |                        |                        |                          |                         |                      |                         | 15,10           | 10,20              |                      |                         |                     |                       |                       |                            | 2,05              | 1.03                | 19,89        | 1.48                        | 1.00                                |        |
|                 | Sex     |                        | 80.06                  | 80.54                    | 0.48                    |                      |                         |                 |                    |                      |                         |                     |                       |                       |                            |                   |                     |              |                             |                                     |        |
|                 | 5U      |                        | 88.34                  | 88.53                    | 0.19                    |                      |                         |                 |                    | •                    |                         |                     |                       |                       |                            | •                 | •                   |              |                             |                                     |        |
|                 | 5 Pring |                        | 88.53                  | 89.48                    | 0.95                    |                      |                         |                 |                    |                      |                         |                     |                       |                       |                            |                   |                     |              |                             |                                     |        |
|                 | 5L      |                        | 89,48                  | 89.85                    | 0.37                    |                      |                         |                 |                    |                      |                         |                     |                       |                       |                            |                   |                     |              |                             |                                     |        |
|                 | 4       | 90                     | 92,28                  | 93,87                    | 1.59                    | 0.92                 | 1.77                    | 14.87           | 10.28              |                      |                         |                     |                       |                       |                            | 0.74              | 0.67                | 81 15        | 1 42                        | 1.60                                |        |
|                 | 3U      | 87                     | 96.34                  | 97.55                    | 1.21                    | 0.84                 | 2.40                    | 13.42           | 9.87               |                      |                         |                     |                       |                       |                            | 2.14              | 1 77                | . 88.66      | 1.45                        | 1.00                                |        |
|                 | 3 Pring |                        | 97,55                  | 98,74                    | 1,19                    |                      |                         |                 |                    |                      |                         |                     |                       |                       |                            | <b>-11</b> 1      | 1.00                | 80,00        | 1,41                        | 1,00                                |        |
|                 | 3L      | 60                     | 98.74                  | 99.85                    | 1.11                    | 0,76                 | 2,54                    | 13.29           | 10,33              |                      |                         |                     |                       |                       |                            | 1.12              | 0.98                | 90.57        | 141                         | 1.60                                |        |
|                 | 2       | 94                     | 111.72                 | 113.50                   | 1.78                    | 0.96                 | 3,51                    | 15.20           | 8.60               | 24,29                | 25,26                   | 59.55               | 62.63                 | 29.06                 | 30,90                      | 0.55              | 0.57                | 83.42        | 1 43                        | 1.60                                |        |
|                 | 2L      | 100                    | 114.59                 | 115.04                   | 0.45                    | 1.01                 | 2.49                    | 22.21           | 10,60              |                      |                         |                     |                       |                       |                            | 1.05              | 0.81                | 72,36        | 1.51                        | 1.60                                |        |
| T92R-06         | N/C     | No Coal                |                        |                          |                         |                      |                         |                 |                    | •                    |                         |                     |                       |                       |                            |                   |                     |              |                             |                                     |        |
|                 |         |                        |                        |                          |                         |                      |                         |                 |                    |                      |                         |                     |                       |                       |                            |                   |                     |              |                             |                                     |        |
| T92D-07         | 6U      | 98                     | 167,23                 | 168,51                   | 1.28                    | 0,94                 | 1.06                    | 15.04           | 8.07               | 28.90                | 30,01                   | \$5.12              | 60.86                 | 29,26                 | 31.56                      | 4,50              | 1.52                | 87.19        | 1.43                        | 1.60                                |        |
|                 | 6 Pring |                        | 168.51                 | 170.21                   | 1.70                    |                      |                         |                 |                    |                      |                         |                     |                       |                       |                            |                   |                     |              |                             | 1.60                                |        |
| •               | 6L      | 82                     | 170.21                 | 171.40                   | 1.19                    | 1.00                 | 1.24                    | 12.31           | 10,09              | . 27.77              | 26,46                   | 58,92               | 62,34                 | 30.47                 | 30.86                      | 0.94              | 0.84                | 93.31        | 1.40                        | 1.60                                |        |
|                 | 5       | 89                     | · 179.05               | 181.97                   | 2,91                    | 1.07                 | 1,50                    | 12.77           | 11.04              | 26.59                | 25.71                   | , 59.57             | 61.75                 | 30.00                 | 30,07                      | 0,52              | 0.52                | 92.79        | 1,40                        | 1,60                                |        |
|                 | 4       | 97                     | 183,41                 | 185,04                   | 1,63                    | 0.94                 | 1.42                    | 12.34           | 9.26               | 27,66                | 27.03                   | 59.06               | 62.29                 | 30.09                 | 31.10                      | 0.74              | 0.66                | 92.27        | 1,40                        | 1,60                                |        |
|                 | 3U      | 100                    | 188.86                 | 189.73                   | 0.87                    | 1.00                 | 1.30                    | 11.22           | 7.94               |                      |                         |                     |                       |                       |                            | 1,18              | 0.93                | 94.47        | 1.39                        | 1.60                                |        |
|                 | 3 Prtng |                        | 189,73                 | 189.95                   | 0.22                    |                      |                         |                 |                    |                      |                         |                     |                       |                       |                            |                   |                     |              |                             |                                     |        |
|                 | 3L      | 98                     | 189,95                 | 190,84                   | 0.89                    | 0.85                 | 1.23                    | 15,38           | 10.62              |                      |                         |                     |                       |                       |                            | 1.33              | 0,93                | 88,30        | 1.43                        | 1.60                                |        |
|                 | 3       |                        | 188.86                 | 190.84                   | -1.98                   | 0.64                 | 1,47                    | 26,82           | 9.95               | 23.35                | 25,11                   | 49.19               | 63,47                 |                       | 30.96                      | 1.61              | 0,89                | 73.27        | 1.56                        | 1.60                                | ·      |
|                 | 2       | 89                     | 206,13                 | 209,75                   | 3,62                    | 0.64                 | 1.97                    | 18.89           | 10.57              | 25.95                | 26.14                   | 54,52               | 61,32                 | 28.01                 | 30.44                      | 1.02              | 0,68                | 82.43        | L.47                        | 1.60                                |        |

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| DRILL-HOLE<br># | SEAM    | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw<br>( | MOISTURE<br>Clean<br>%) | AS<br>Raw<br>(S | 511<br>Clean<br>4) | VOLATIL<br>Raw<br>(* | E MATTER<br>Clean<br>%) | FDXED (<br>Raw<br>(' | CARBON<br>Cican<br>%) | CALORII<br>Raw<br>(M | TC VALUE<br>Clean<br>J/kg) | ŠUL<br>Raw<br>( | PHUR<br>Clean<br>%) | YTELD<br>(%) | SPEC<br>GRA<br>Raw<br>(g/cc) | CIFIC<br>VITY<br>Wabbity<br>(g/ce) | F.S.L |
|-----------------|---------|------------------------|-------------------|-------------------------|-------------------------|----------------------|-------------------------|-----------------|--------------------|----------------------|-------------------------|----------------------|-----------------------|----------------------|----------------------------|-----------------|---------------------|--------------|------------------------------|------------------------------------|-------|
| T92R-08         | 11      |                        | . 30.49           | 30.92                   | 0.43                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
| 17211 00        | 10      | N/A                    | 37.29             | 37.81                   | 0.52                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 9       | N/A                    | 40.87             | 41.80                   | 0.93                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 8       | N/A                    | 44.44             | 46.82                   | 2.38                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 2       | •                      | 49.18             | 49.53                   | 0.35                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 6U Rep  | N/A                    | 60.11             | 60.63                   | 0.52                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 6 Pring |                        | 60,63             | 60,78                   | 0.15                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 6L Rep  | N/A                    | 60,78             | 61.66                   | 0.88                    |                      |                         |                 |                    |                      |                         |                      |                       |                      | •                          |                 |                     |              |                              |                                    |       |
|                 | Sex Rep | N/A                    | 62,40             | 65,45                   | 3.05                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | FAULT   |                        | 70,00             |                         |                         |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | ?       | N/A                    | 74.15             | 74.32                   | 0.17                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 7       | N/A                    | 84.68             | 85.19                   | 0,51                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 6U      | N/A                    | 90,21             | 90.89                   | 0.68                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 6 Prtng |                        | 90.89             | 91.48                   | 0.59                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 6L      | N/A                    | 91,48             | 92.07                   | 0,59                    |                      |                         |                 |                    |                      |                         |                      |                       |                      | *                          |                 |                     |              |                              |                                    |       |
|                 | 5ex     | N/A                    | 94,07             | 98.08                   | 4.01                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | ?       | N/A                    | 99.31             | 99.61                   | 0.30                    |                      |                         |                 | •                  |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | SU      | N/A                    | 101.70            | 102.20                  | 0,50                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 5 Pring |                        | 102,20            | 103,44                  | 1,24                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            | •               | •                   |              |                              |                                    |       |
|                 | 5L      | N/A                    | 103.44            | 104.58                  | 1.14                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 4       | N/A                    | 105.87            | 106.80                  | 0.93                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | ? •     | • N/A                  | 108,89            | 109.68                  | 0,79                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 30      | N/A                    | 112,07            | 113.05                  | 0.98                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 3 Pring |                        | 113.05            | 113.49                  | 0.44                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 31.     | N/A                    | 113,49            | 114.50                  | 1.01                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 2       | N/A                    | 129,25            | 129.67 -                | 0.42                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
| T92D-09         | 11      | 90                     | 38.34             | 39,32                   | 0.98                    | 0.93                 | 1,96                    | 16.23           | 13.69              | 22.33                | 21.22                   | 60.51                | 63 13                 | 28.85                | 29 39                      | 746             | 2 12                | A1 10        | 1.44                         | 1.60                               |       |
|                 | 10      | 86                     | 44.91             | 45,90                   | 0,99                    | 0.53                 | 1.79                    | 12,45           | 7.59               | 25.09                | 24.52                   | 61.93                | 66.10                 | 30.64                | 32.35                      | 2.51            | 1 53                | 89.81        | 1.40                         | 1.00                               |       |
|                 | 9       | 83                     | 47.10             | 47.58                   | 0.48                    | 0.94                 | 2.28 •                  | 34.03           | 16,34              |                      | 22,04                   |                      | 59,34                 |                      | 28.35                      | 4.42            | 2.98                | 56.60        | 1.45                         | 1.60                               |       |
|                 | 8       | 100                    | 48.00             | 49.61                   | 1,61                    | 0.65                 | 2.26                    | 17.79           | 11.41              | 22.99                | 21,99                   | 58.57                | 64.34                 | 28,29                | 29.96                      | 2.27            | 1.57                | 80.67        | 1.46                         | 1.60                               |       |
|                 | ?       | 100                    | 52,19             | 52.51                   | 0.32                    | 0,75                 |                         | 26.91           |                    |                      |                         |                      |                       |                      |                            | 2.62            |                     |              | ••••                         |                                    |       |
|                 | 6U      | 100                    | 73,43             | 74,95                   | 1.52                    | 0.70                 | 1.56                    | 13.93           | 8,25               |                      |                         |                      |                       |                      |                            | 1,85            | 1.50                | \$6.81       | 1.42                         | 1.60                               |       |
|                 | 6 Pring |                        | 74.95             | 75.45                   | 0.50                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 6L      | 100                    | 75.45             | 76.95                   | 1,50                    | 0,74                 | 1.29                    | 16.87           | 8,66               | 24.83                | 24.96                   | 57,56                | 65.09                 | 28,53                | 31.14                      | 2.34            | 1.33                | 78,26        | 1.45                         | 1.60                               |       |
|                 | Sex     | 100                    | 84,21             | 85.22                   | 1.01                    | · 0.79               | 2.03                    | 33.24           | 20,30              |                      | 22.54                   |                      | 55,13                 |                      | 26,70                      | 0.84            | 0,61                | 66.07        | 1.64                         | 1,60                               |       |
|                 | ?       | 99                     | 88.80             | 89.09                   | 0,29                    | 0,86                 |                         | 32.61           |                    |                      |                         |                      |                       |                      |                            | 0.59            |                     |              |                              | -                                  |       |
|                 | 5U      | 89                     | 89.85             | 91.17                   | 1,32                    | 0.55                 | 1.72                    | 15.20           | 13.10              | 25.34                | 23.83                   | 58,91                | 61.35                 |                      | 29.37                      | 1.47            | . 0.84              | 87.45        | 1.43                         | 1.60                               |       |
|                 | 5 Prtng |                        | 91.17             | 91.95                   | 0.78                    |                      |                         |                 |                    |                      |                         |                      |                       |                      |                            |                 |                     |              |                              |                                    |       |
|                 | 5L      | 100                    | 91,75             | 92.41                   | 0,66                    | 0,63                 | 1,10                    | 29.28           | 16,72              | 25.27                |                         | 44.82                |                       |                      |                            | 2.34            | 1.13                | 57.84        | 1.59                         | 1,60                               |       |
|                 | 4       | 97                     | 93,81             | 95,50                   | 1,69                    | 0.45                 | 1.64                    | 13,20           | 11.22              | 26,43                | 24.83                   | 59,92                | 62.31                 | •                    | 30.56                      | 0.66            | 0.57                | 92.16        | 1.41                         | 1.60                               |       |
|                 | 30      | 97                     | 96.68             | 97.58                   | 0.90                    | 0,63                 |                         | 24,78           | •                  | 24,60                |                         | 49.99                |                       |                      |                            | 1,27            |                     |              | 1,54                         | 1.60                               |       |
|                 | 3 Pring |                        | 97.58             | 97.73                   | 0.15                    | 0,63                 |                         | 24.78           |                    | 24,60                |                         | 49.99                |                       |                      |                            | 1.27            |                     |              | 1,54                         | 1.60                               |       |
|                 | 3L      | 95                     | 97,73             | 98.64                   | 0.91                    | 0.53                 |                         | 18,84           |                    | 26.88                |                         | 53,75                |                       |                      |                            | 1.04            |                     |              | 1.47                         | 1.60                               |       |
|                 | 3       |                        | 96.68             | 98.64                   | 1,96                    |                      | 1,49                    |                 | 12.18              |                      |                         |                      |                       |                      |                            |                 | 0.84                | 81,59        | FALSE                        | 1,60                               |       |
|                 | 2       | 98                     | 105,62            | 108.92                  | 3,30                    | 0.60                 | 1.54 -                  | 22.07           | 12.47              |                      |                         |                      |                       |                      |                            | 0,90            | 0.64                | 77.43        | 1.51                         | 1.60                               |       |

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T92R-10

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| DRILL-HOLE<br>N | SEAM        | SEAM<br>REC'VRY<br>(%) | DRILLED SI<br>From<br>(1 | EAM INT'RVL<br>To<br>n} | SEÁM<br>THICKN'S<br>(m) | RESIDUAL MOISTURE<br>Raw Clean<br>(%) | ASH<br>Raw Cican<br>(%) | VOLATILE MATTER<br>Raw Cican<br>(%) | FIXED CARBON<br>Raw Clean<br>(%) | CALORIFIC VALUE<br>Raw Clean<br>(MJRg) | SULPHUR<br>Raw Cican<br>(%) | YIELD<br>(%) | SPECIFIC<br>GRAVITY<br>Raw Wshbliy<br>(g/cc) (g/cc) | F.S.L |
|-----------------|-------------|------------------------|--------------------------|-------------------------|-------------------------|---------------------------------------|-------------------------|-------------------------------------|----------------------------------|----------------------------------------|-----------------------------|--------------|-----------------------------------------------------|-------|
| T92R-11         | 9           | N/A                    | 22.28                    | 23.06                   | 0.78                    | <u></u>                               |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 8           | N/A                    | 26,96                    | 27.82                   | 0.86                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 6U          | N/A                    | 44,04                    | 45,57                   | 1,53                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 6 Pring     |                        | 45.57                    | 46.28                   | 0.71                    |                                       |                         |                                     |                                  | 3                                      |                             |              |                                                     |       |
|                 | 6L,         | N/A                    | 46,28                    | 46,80                   | 0.52                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | Sex         | N/A                    | 48.13                    | 49.32                   | 1.19                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 5U          |                        | 58.45                    | 59,38                   | 0,93                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 5L          | N/A                    | 59,38                    | 61,12                   | 1,74                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 4           | N/A                    | 62.29                    | 63.03                   | 0.74                    |                                       |                         |                                     |                                  | ~                                      |                             |              |                                                     |       |
|                 | ?           | N/A                    | 78,63                    | 79,46                   | 0,83                    |                                       |                         | ,                                   |                                  |                                        |                             |              |                                                     |       |
|                 | 2U          | N/A                    | 80,22                    | 80,80                   | 0,58                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 2           | N/A                    | 81.51                    | 83.27                   | 1.76                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 2L          | N/A                    | 83,45                    | 83,71                   | 0,26                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
| T92R-13         | 10          | N/A                    | 5.50                     | 6.88                    | 1.38                    |                                       |                         | •                                   |                                  |                                        |                             |              |                                                     |       |
|                 | 9           | N/A                    | 7,56                     | 8.23                    | 0,67                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 8           | N/A                    | 10,83                    | 12,75                   | 1,92                    |                                       |                         |                                     |                                  | ·                                      |                             |              |                                                     |       |
|                 | 6U          | N/A                    | 18.32                    | 19.53                   | 1.21                    |                                       |                         |                                     |                                  |                                        |                             |              | ,                                                   |       |
|                 | 6 Pring     | •                      | 19,53                    | 21.47                   | 1,94                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 6L          | N/A                    | 21,47                    | 21.82                   | 0,35                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 6L Prig     |                        | 21.82                    | 22,18                   | 0.36                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 6L.         | N/A                    | 22.18                    | 23.60                   | 1.42                    |                                       | •                       |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 7<br>EATH T | N/A.                   | 24,49                    | 24,68                   | 0.19<br>www.cida.ef.nor | met faule                             |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | TAULI       |                        | 20,00                    | - upun                  | own side of not         | nia laut                              |                         |                                     |                                  |                                        |                             |              |                                                     |       |
| T92R-14         | 5ex         | N/A                    | 6.37                     | 7,47                    | 1,10                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | \$U         |                        | 10.28                    | 11.75                   | 1.47                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 5 Pring     |                        | 11.75                    | 11.81                   | 0.06                    |                                       |                         | •                                   |                                  |                                        |                             |              |                                                     |       |
|                 | 5L          |                        | 11.81                    | 12.80                   | 0,99                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 5           | N/A                    | 10,28                    | 12.80                   | 2.52                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 4           | N/A                    | 13.21                    | 15.10                   | 1.89                    | •                                     |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 3U          | N/A                    | 15.77                    | 16.55                   | 0.78                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 3 Pring     |                        | 16.55                    | 17.07                   | 0.52                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 3L          | N/A                    | 17.07                    | 17,74                   | 0.67                    | •                                     |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 2IJ         | N/A                    | 24,20                    | 24,56                   | 0,36                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 |             |                        |                          |                         |                         |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |
|                 | 2           | N/A                    | 25.48                    | 28.53                   | 3.05                    |                                       |                         |                                     |                                  |                                        |                             |              |                                                     |       |

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|---------|----|-----|-------|-------|------|
| T92R-16 | 7  | N/A | 31,26 | 31.74 | 0,48 |
|         | 6L | N/A | 37.83 | 38.78 | 0.95 |
|         | ?  |     | 42.66 | 42.73 | 0.07 |
|         | 5  | N/A | 43,92 | 45,72 | 1,80 |
|         | 4  | N/A | 49.04 | 49.46 | 0.42 |

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## File Name; TK94PIT8, XLS

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| DRILL-HOLE | SEADI   | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>( | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw<br>(1 | MOISTURE<br>Clean<br>%) | AS<br>Ra <del>w</del><br>(% | H<br>Clean<br>) | VOLATILE MATTI<br>Raw Clean<br>(%) | ER ] | FIXED CARBON<br>Raw Clean<br>(%) | CALORIFIC V<br>Raw C<br>(MJ/kg) | 'ALUE-'<br>can | SULPI<br>Raw<br>(%) | UR<br>Cican | YIELD<br>(%) | SPECI<br>GRAV<br>Raw<br>(g/cc) | FIC<br>ITY<br>Wabbity<br>(g/cc) | F.S.L    |   |  |
|------------|---------|------------------------|------------------------|-------------------------|-------------------------|-----------------------|-------------------------|-----------------------------|-----------------|------------------------------------|------|----------------------------------|---------------------------------|----------------|---------------------|-------------|--------------|--------------------------------|---------------------------------|----------|---|--|
| - T92R-17  | 11      |                        | 61.17                  | 61.22                   | 0.05                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 | <u> </u> |   |  |
|            | 10      | N/A                    | 61,73                  | 62,36                   | 0,63                    |                       |                         | •                           |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 9       |                        | 68,30                  | 68,34                   | 0.04                    |                       |                         |                             |                 | •                                  |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 8       | N/A                    | 69.63                  | 70.00                   | 0.37                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 7       |                        | 85.17                  | 85,28                   | 0.11                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 6U      | ' N/A                  | 89.88                  | 91.53                   | 1.65                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 6 Pring |                        | 91,53                  | 92,30                   | 0.77                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             | •            |                                |                                 | •        |   |  |
|            | 6L      | N/A                    | 92.30                  | 94.11                   | 1.81                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 5U      |                        | 101.44                 | 102.73                  | 1.29                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 5 Pring |                        | 102,73                 | 102.73                  |                         |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 5L      |                        | 102.73                 | 102.92                  | 0.19                    |                       | •                       |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 5       | N/A                    | 101,44                 | 102.92                  | 1.48                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 4       | 'N/A                   | 104.59                 | 106.41                  | 1.82                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 3U      | N/A                    | 109,06                 | 110,01                  | 0,95                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
| •          | 3 Pring |                        | 110,01                 | 110.68                  | 0,67                    |                       |                         |                             |                 |                                    | -    |                                  | •                               |                |                     |             |              |                                |                                 |          |   |  |
|            | 3L      | N/A                    | 110.68                 | 111.78                  | 1.10                    |                       | •                       |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 2       | NA                     | 117.31                 | 120.61                  | 3,30                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
| T92R-18    | 2       | N/A                    | 5.31                   | 9.37                    | 4 06                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 | -        |   |  |
|            | 2L      | N/A                    | 13.70                  | 14.01                   | 0.31                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 | •        |   |  |
| T92R-19C   | 7       | -                      | 12.80                  | 13.33                   | 0.53                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 6U      |                        | 19,35                  | 20.68                   | 1,33                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 6 Pring |                        | - 20.68                | 21.81                   | 1,13                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 6L,     | -                      | 21.81                  | 23.08                   | 1.27                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 | •        |   |  |
|            | 5A      |                        | 29.04                  | 29,93                   | 0.89                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          | • |  |
|            | 5U      |                        | 30.19                  | 32.90                   | 2.71                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 5 Prtng |                        | 32.90                  | 32.90                   | • • • • •               |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 5L      |                        | 32,90                  | 33.87                   | 0.97                    |                       |                         |                             | <b>'</b>        |                                    |      |                                  |                                 |                |                     |             |              |                                |                                 |          |   |  |
|            | 5       | 87                     | 30.19                  | 33.87                   | 3.68                    | 0.89                  | 2.45                    | 14.29                       | 9,61            |                                    |      |                                  | •                               |                | 0.63                | 0.55        | 89.14        | 1,42                           | 1.60                            |          |   |  |
|            | 4       | 86                     | 35.28                  | 37,20                   | 1,92                    | 0,70                  | 0,71                    | 11.30                       | 10.09           |                                    |      |                                  |                                 |                | 0.69                | 0.74        | 97.33        | 1.39                           | 1.60                            |          |   |  |
|            | 3U      | 93                     | 40.38                  | 41.37                   | 0.99                    | 0.60                  | 0.65                    | 11.99                       | 8,54            |                                    |      |                                  |                                 |                | 1.37                | 1.15        | 93.03        | 1.39                           | 1.60                            |          |   |  |
|            | 3 Pring |                        | 41,37                  | 42.06                   | 0,69                    |                       |                         |                             |                 |                                    |      |                                  |                                 |                |                     | •           |              |                                |                                 |          |   |  |
|            | 3L      | 100                    | 42.06                  | 43,03                   | 0,97                    | 0,68                  | 0,79                    | 14.62                       | 9.64            |                                    |      |                                  |                                 |                | 2,25                | 1.11        | 85.98        | 1.42                           | 1.60                            |          |   |  |
|            | 2U      | 50                     | 49.95                  | 50.26                   | 0.3 I                   | 1.14                  | 1.54                    | 39,05                       | 38.08           |                                    |      |                                  |                                 | •              | 0.88                | 0,83        | 2.71         | 1.71                           | 1.60                            |          |   |  |
|            | 2       | 58                     | 52.34                  | 54,42                   | 2,08                    | 0.69                  | 0.81                    | 10,06                       | 8.72            |                                    |      |                                  |                                 |                | 0.68                | 0.58        | 96 11        | 1 37                           | 1.60                            |          |   |  |

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| DRILL-HOLE | SEÅM          | SEAM<br>REC'VRY<br>(%) | DRILLED :<br>From | SEAM INT'RVL<br>Tø<br>(m) | SEAM<br>THICKN'S<br>`(m) | RESIDUAL MOISTURE<br>Rati Clean<br>(%) | ASH<br>Raw Clean<br>(%) | VOLATILE MATTER<br>Raw Cican<br>(%) | FIXED CARBON<br>Raw Cican<br>(%) | CALORIFIC VALUE<br>Raw Clean<br>(MJ/kg) | SULPHUR<br>Raw Clean<br>(%) | YIELD<br>(%) | SPECIFIC<br>GRAVITY<br>Raw Wishbity<br>(g/cc) (g/cc) | F.S.I. |
|------------|---------------|------------------------|-------------------|---------------------------|--------------------------|----------------------------------------|-------------------------|-------------------------------------|----------------------------------|-----------------------------------------|-----------------------------|--------------|------------------------------------------------------|--------|
| 92R-21     | u             | ·<br>N/A               | 60.98             | 61.22                     | 0.24                     |                                        |                         |                                     |                                  | •                                       | . <u></u>                   |              |                                                      |        |
|            | 10            | N/A                    | 62,50             | 63,53                     | 1,03                     |                                        |                         |                                     |                                  |                                         | •                           |              |                                                      |        |
|            | 9             | N/A                    | 65.79             | 66.11                     | 0.32                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 2             | N/A                    | 71.16             | 71.38                     | 0.22                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 7             |                        | 82.41             | 82.44                     | 0.03                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 6U            | N/A                    | 90.44             | 91,76                     | 1.32                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 6 Prtng<br>6L | N/A                    | 91.76<br>92.30    | 92,30<br>93,06            | 0.54<br>0.76             |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 5U            |                        | 100.38            | 102.35                    | 1.97                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 5 Prtng       |                        | 102.35            | 102.35                    | . 199                    |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 5             | N/A                    | 102.35            | 103.57                    | 3,19                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 4             | N/A                    | 106.08            | 107.23                    | 1.15                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 3U<br>3 Dana  | N/A                    | 110,10            | 111.03                    | 0,93                     | •                                      |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 3L            | N/A                    | 111.64            | 112.58                    | 0.94                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 2U            |                        | 119,24            | 119.32                    | 0.08                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 2             | N/A                    | 121,72            | 123,40                    | 1.68                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
| R-23       | 11            | N/A                    | 140.49            | 141.71                    | 1.22                     |                                        |                         | •                                   |                                  |                                         |                             |              |                                                      |        |
|            | 0<br>10       | N/A<br>N/A             | 151.93            | 152,69                    | 0,76                     |                                        |                         |                                     |                                  |                                         |                             |              | •                                                    |        |
|            | 8             | N/A                    | 155.72            | 157.58                    | 1.86                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | ?             | N/A                    | 161,70            | 161.88                    | 0.18                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            |               |                        |                   | •                         |                          |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
| R-25       | 7             | N/A                    | 26,27             | 26,73                     | 0,46                     |                                        | `                       |                                     |                                  |                                         | •                           |              |                                                      |        |
|            | 6U<br>6 Prine | N/A                    | 28,89             | 29,19<br>29,49            | 0,30                     |                                        |                         |                                     |                                  |                                         | •                           |              |                                                      |        |
|            | 6L            | N/A                    | 29,49             | 30,90                     | 1,41                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 5A            |                        | 32.94             | 33,82                     | 0,88                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 50            | N/A                    | 32,94             | 36,30                     | 3,36                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 5 Pring       |                        | 36.30             | 36,30                     | 1.49                     |                                        |                         |                                     | -                                |                                         |                             |              |                                                      |        |
|            | 5<br>5        |                        | 30.30             | 37.78                     | 4,84                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 4             | N/A                    | 39.35             | 41.40                     | 2.05                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 3U            | N/A                    | 43,72             | 44,68                     | 0.96                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      | •      |
|            | 3 Pring<br>3L | N/A                    | 44.68<br>45.00    | 45.00                     | 0.32                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            | 2U            | N/A                    | 49.00             | 49,50                     | 0,50                     |                                        |                         |                                     | •                                |                                         |                             |              |                                                      |        |
|            | 2             | N/A                    | 49.72             | 51.69                     | 1.97                     |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
| D-26       |               | No Cost                | -                 |                           |                          |                                        |                         |                                     |                                  |                                         |                             |              |                                                      |        |
|            |               | nocoa                  |                   |                           |                          |                                        | ,                       |                                     |                                  |                                         |                             |              |                                                      |        |

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| drill-hole | SEAM                           | SEAM<br>REC'VRY<br>(%)   | DRILLED S<br>From<br>(                   | EAM INTRVL<br>To<br>m)                    | SEAM<br>• THICKN'S<br>(m)            | RESIDUAL<br>Raw<br>( | MOISTURE<br>Cican<br>%) | A:<br>Raw<br>(1 | Sli<br>Clean<br>%) | VOLATIL<br>Raw<br>( | E MATTER<br>Clean<br>%) | FIXED<br>Raw<br>( | CARBON<br>Clean<br>(%) | CALORIFIC<br>Raw<br>(MJ/kg | VALUE<br>Tean<br>) | SULI<br>Ra <del>n</del><br>(? | HUR<br>Clean<br>4) | YIELD<br>(%)                         | GR/<br>Raw<br>(g/cc) | Withblity<br>(g/cc) | F.S.I. |
|------------|--------------------------------|--------------------------|------------------------------------------|-------------------------------------------|--------------------------------------|----------------------|-------------------------|-----------------|--------------------|---------------------|-------------------------|-------------------|------------------------|----------------------------|--------------------|-------------------------------|--------------------|--------------------------------------|----------------------|---------------------|--------|
| T92R-30Č   | 11                             |                          | 17.51                                    | 18.28                                     | 0,77                                 | ·                    |                         |                 |                    |                     |                         |                   |                        | •                          |                    |                               |                    |                                      |                      |                     |        |
|            | 10                             |                          | 29,71                                    | 29.89                                     | 0,18                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    |                                      |                      |                     |        |
|            | 9                              | 100                      | 30.87                                    | 31.24                                     | 0.37                                 | 1.34                 |                         | 14.05           |                    |                     |                         |                   |                        |                            |                    | 2.80                          |                    |                                      | 1.42                 | 1.60                |        |
|            | 8                              | 95                       | 32,48                                    | 34,17                                     | 1.69                                 | 1,35                 | 1,30                    | 15.75           | 11.23              | 26,47               |                         | 56,43             |                        |                            |                    | 1.21                          | 0.76               | 86.30                                | 1 44                 | 1.60                |        |
|            | 7                              |                          | 49,91                                    | 50,41                                     | 0,50                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    |                                      |                      | .,00                |        |
|            | 6U                             | 94                       | 58.16                                    | 59.35                                     | 1.19                                 | 0.90                 | 0.89                    | 9,81            | 6,96               | 33.13               |                         | 56.16             |                        |                            |                    | 0.92                          | 0.83               | 94.45                                | 137                  | 1.60                |        |
|            | 6 Pring                        |                          | 59.35                                    | 59.89                                     | 0,54                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    | 0.72                          | 0.00               | 24,42                                |                      | 1.00                |        |
|            | 6L                             | 100                      | 59,89                                    | 60,81                                     | 0.92                                 | 1.01                 | 1.21                    | 12.17           | 7.74               | 29.16               |                         | 57.66             |                        |                            |                    | 196                           | 1.05               | 90.28                                | t an                 | 1.60                |        |
|            | 2                              |                          | 62.55                                    | 62.80                                     | 0.25                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    | 1.70                          | 1,05               | <i><b>J</b></i> <b>JJJJJJJJJJJJJ</b> | 1,10                 | 1.00                |        |
|            | 5                              | 100                      | 62,80                                    | 66.79                                     | 3.99                                 | 1.01                 | 0.64                    | 13.57           | 8.66               | 25.96               |                         | 59.46             |                        |                            |                    | 0.65                          | 0.49               | 80.81                                | 141                  | 1.60                |        |
| •          | 4                              |                          |                                          |                                           |                                      |                      |                         |                 |                    |                     |                         | 27.40             |                        |                            |                    | 0.00                          | 0.40               | 4                                    | 1.41                 | 1.00                |        |
|            | 3U                             | 99                       | 68.69                                    | 69.64                                     | 0.95                                 | 0.70                 | 0.86                    | 22.38           | 14.74              | 28.07               |                         | 48.85             |                        |                            |                    | 2 2 2                         | 0.07               | 70.20                                | 1 61                 | 1.60                |        |
|            | 3 Pring                        |                          | 69.64                                    | 70.54                                     | 0.90                                 |                      |                         |                 | • • • •            |                     |                         | 40.05             |                        |                            |                    | 2.2.2                         | 0,93               | 10.33                                | 1.51                 | 1.00                |        |
|            | 3L                             | 93                       | 70.54                                    | 71.43                                     | 0.89                                 | 0.69                 | 1.02                    | 18.08           | 13.66              | 78 13               |                         | 53.10             |                        |                            |                    | 0.70                          | 0.70               | 00.50                                |                      |                     |        |
|            | 2U                             | 100                      | 76 23                                    | 76.67                                     | 0.44                                 | 0.71                 | 0.81                    | 35.96           | 27.01              | 20.12               | 26 71                   | 55,10             | \$0.47                 |                            | 6 71               | 2.05                          | 0.79               | 80,33                                | 1.40                 | 1.00                |        |
|            | 2                              | 94                       | 77.13                                    | 80.34                                     | 3.21                                 | 1.44                 | 0.63                    | 14.37           | 10.04              | 77 53               | 10.71                   | 56 66             | 30.47                  | -                          | 0,71               | 3.80                          | 076                | 30.43                                | 1.07                 | 1.60                |        |
| T92R-33    | 3U<br>3 Pring<br>3L<br>2U<br>2 | N/A<br>N/A<br>N/A<br>N/A | 9.59<br>10.32<br>10.92<br>16.10<br>17.40 | 10.32<br>10.92<br>11.72<br>16.51<br>20.62 | 0,73<br>0.60<br>0.80<br>0.41<br>3.22 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    | ·                                    |                      |                     |        |
|            |                                |                          |                                          |                                           |                                      |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    |                                      |                      |                     |        |
| T92R-35    | 1                              | N/A                      | 87.02                                    | 87,73                                     | 0.71                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    |                                      |                      |                     |        |
|            | 1                              | N/A                      | 94.07                                    | 94.91                                     | 0,84                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    |                                      |                      |                     |        |
|            | 1                              | N/A                      | 95,02                                    | 95,62                                     | 0.60                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    |                                      |                      |                     |        |
|            | 1                              | N/A                      | 95.75                                    | 95.90                                     | 0,15                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    |                                      |                      |                     |        |
|            | 1                              | N/A                      | 96,22                                    | 97.22                                     | 1,00                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    |                                      |                      |                     |        |
|            | 1                              | N/A                      | 98,59                                    | 99.24                                     | 0.65                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    |                                      |                      |                     |        |
|            | 1                              | N/A                      | 100.13                                   | 102.50                                    | 2.37                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    |                                      |                      |                     |        |
|            | 1                              | N/A                      | 111,31                                   | 112.43                                    | 1,12                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    |                                      |                      |                     |        |
|            | t                              | N/A                      | 112,86                                   | 113.47                                    | 0.61                                 |                      |                         | ×               |                    |                     |                         | •                 |                        |                            |                    |                               |                    |                                      |                      |                     |        |
|            | 1.                             | N/A                      | 115.04                                   | 116.01                                    | 0.97                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    |                                      |                      |                     |        |
| T92D-41    | 3L                             | 11                       | 3,75                                     | 4.87                                      | 1.12                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    |                                      |                      |                     | •      |
|            | 2                              | 86                       | 16.68                                    | 18.99                                     | 2.31                                 | 0,76                 | 2.50                    | 16,17           | 10,99              |                     | 25.95                   |                   | 60,56                  | :                          | 0.13               | 0,46                          | 0.47               | 88,16                                | 1,44                 | 1.60                |        |
|            | 2LP                            |                          | 18.99                                    | 19,51                                     | 0.52                                 |                      |                         |                 |                    |                     |                         |                   |                        |                            |                    |                               |                    |                                      | 2.20                 | 1.60                |        |
|            | 2L                             | 82                       | 19.51                                    | 20.02                                     | 0.51                                 | 0.95                 | 2.38                    | 18,62           | 13,90              |                     |                         |                   |                        | •                          |                    | 0.53                          | 0.48               | 80.62                                | 1.47                 | 1.60 '              |        |

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| drill-hole<br>#  | SEAM  | SEAM<br>REC'VRY<br>(%) | DRILLED SI<br>From<br>(r | EAM INT'RVL<br>To<br>n) | SEAM<br>THICKN'S<br>(¤) | RESIDUAL<br>Raw<br>( | MOISTURE<br>Clean<br>%) | Ai<br>Raw<br>(1 | SII<br>Clean<br>4) | VOLATILE<br>Raw<br>(? | E MATTER<br>Clean<br>%) | FIXED<br>Raw<br>( | CARBON<br>Clean<br>%) | CALORIF<br>Raw<br>(M. | IC VALUE<br>Clean<br>//kg) | SULE<br>Raw<br>(? | PHUR<br>Clean<br>%) | YIELD<br>(%) | SPEC<br>GRAN<br>Raw<br>(g/cc) | IFIC<br>/ITY<br>Wahblty<br>(y/cc) | F.S.I. |
|------------------|-------|------------------------|--------------------------|-------------------------|-------------------------|----------------------|-------------------------|-----------------|--------------------|-----------------------|-------------------------|-------------------|-----------------------|-----------------------|----------------------------|-------------------|---------------------|--------------|-------------------------------|-----------------------------------|--------|
| 7012.01          |       |                        | 57 01                    | 57 00                   | . 0.07                  |                      |                         |                 |                    | · · · · · · · · · · · |                         |                   |                       |                       | ·                          |                   |                     |              |                               | ·····                             |        |
| 1558-21          | 10    |                        | 65 78                    | 66 38                   | 0,07                    |                      |                         |                 |                    |                       |                         |                   |                       |                       |                            |                   |                     |              |                               |                                   |        |
|                  | 9     |                        | 67.29                    | 67.67                   | 0.38                    |                      |                         | •               |                    |                       |                         |                   |                       |                       |                            |                   |                     |              |                               |                                   |        |
|                  | 8     |                        | 68,71                    | 70.43                   | 1.72                    |                      |                         |                 |                    |                       |                         |                   |                       |                       |                            |                   |                     |              |                               |                                   |        |
| •                | ?     |                        | 73,24                    | 73,70                   | 0,46                    |                      |                         |                 |                    |                       |                         |                   |                       |                       |                            |                   |                     |              |                               |                                   |        |
|                  | 7     |                        | 84,55                    | 85.15                   | 0.60                    |                      |                         |                 |                    |                       | •                       |                   |                       |                       |                            |                   |                     |              |                               |                                   |        |
|                  | 6U    |                        | 100.56                   | 101.67                  | 1.11                    |                      |                         |                 | •                  |                       |                         |                   |                       |                       |                            |                   |                     |              |                               |                                   |        |
|                  | 6P    |                        | 101.67                   | 101.74                  | 0,07                    |                      |                         |                 |                    |                       |                         |                   |                       |                       |                            |                   |                     |              |                               |                                   |        |
|                  | 6L    |                        | 101.74                   | 103.70                  | 1.96                    |                      |                         |                 |                    |                       |                         |                   |                       |                       |                            |                   |                     |              |                               |                                   |        |
|                  | 5     |                        | 103.85                   | 111.18                  | 7.33                    |                      |                         |                 |                    |                       |                         |                   |                       |                       |                            |                   |                     |              | •                             |                                   |        |
|                  | 4     |                        | 112.17                   | 114.34                  | 2.17                    |                      |                         |                 |                    |                       |                         | •                 |                       |                       |                            |                   |                     |              |                               |                                   |        |
|                  | 30    |                        | 117.08                   | 118.22                  | 1.14                    |                      |                         |                 |                    |                       |                         |                   | •                     |                       |                            |                   |                     |              |                               |                                   |        |
|                  | 3P    |                        | 118.22                   | 118.38                  | 0,16                    |                      |                         |                 |                    |                       |                         |                   |                       |                       |                            |                   |                     |              |                               |                                   |        |
|                  | 3L    |                        | 118,38                   | 119.55                  | 1,17                    |                      |                         |                 |                    |                       |                         |                   |                       |                       |                            |                   |                     |              |                               |                                   |        |
|                  | 2     |                        | 126.61                   | 130.64                  | 4.03                    |                      |                         |                 |                    |                       |                         |                   |                       |                       |                            |                   |                     |              |                               |                                   |        |
| <b>T9</b> 3D-22/ | 11    |                        | · 89,30                  | 90,23                   | 0.93                    | 0.68                 | 0.48                    | 21.11           | 13.51              | 27.32                 | 29.41                   | 50.89             | 56.60                 | 27.37                 | 30.22                      | 5.59              | 2.43                | 77 86        | 1.50                          |                                   | 15     |
| T93R-22          | 10    |                        | 103.83                   | 103.97                  | 0.14                    |                      |                         | •               |                    |                       |                         |                   |                       |                       | •                          |                   |                     | 1,           |                               |                                   |        |
|                  | 9     |                        | 105.30                   | 105,67                  | 0.37                    | 0.59                 | 0,50                    | 24.76           | 10.33              |                       | 31,12                   |                   | \$8.05                | 25.92                 | 31.50                      | 3.46              | 2.45                | 69.54        | 1.54                          |                                   |        |
|                  | 8     |                        | 105.87                   | 108.86                  | 1.99                    | 0.82                 | .0.48                   | 14.63           | 11.11              | 25.04                 | 27,86                   | 59,51             | 60,55                 | 29.45                 | 30.76                      | 1.11              | 0.86                | 89.38        | 1.42                          |                                   | 1.0    |
|                  | 7     |                        | 123.06                   | 123,62                  | 0.56                    | 0,75                 | 0,31                    | 20.56           | 9.98               | 30,12                 | 33,31                   | 48.57             | 56.40                 | 27.76                 | 31,68                      | 3.43              | 2.84                | 76,76        | 1.49                          |                                   |        |
|                  | 6     |                        | 139.77                   | 144,19                  | 4.42                    | 0.80                 | 0.48                    | 10.15           | 6.13               | 26,67                 | 29.94                   | 62.38             | 63,45                 | 31.36                 | 32.66                      | 1.44              | 0.86                | 91.45        | 1,37                          |                                   | 3.5    |
|                  | Pring |                        | 144.19                   | 144.46                  | 0.27                    | 0.69                 |                         | 66.05           |                    |                       |                         |                   |                       |                       |                            | 1.81              |                     |              | 2.12                          |                                   |        |
|                  | 5     |                        | 144.46                   | 149,12                  | 4.66                    | 0,68                 | 0.59                    | 12,18           | 8.33               | 25,36                 | 28.08                   | 61.78             | 63,00                 | 30.26                 | 31.64                      | 0,57              | 0,55                | 90,44        | 1.40                          |                                   | 2.0    |
|                  | 4     |                        | 149.67                   | 151,42                  | 1,75                    | 0,83                 | 0.58                    | 13.70           | 9.37               | 26,71                 | 28,51                   | 58.76             | 61.54                 | 29,81                 | 30,15                      | 0,76              | 0.71                | 92.14        | 1.41                          |                                   | 1.5    |
|                  | 30    |                        | 156.44                   | 157.72                  | 1.28                    | 0.81                 | 0.50                    | 14.21           | 10.17              | 30.17                 | 29.65                   | 54.81             | 59,68                 | 29,80                 | 29,98                      | 1.23              | 1.17                | 88,65        | 1.42                          |                                   |        |
|                  | 3P    |                        | 157.72                   | 157,99                  | 0,27                    | •                    |                         |                 |                    |                       |                         |                   |                       |                       |                            |                   |                     |              | FALSE                         |                                   |        |
|                  | 3L    |                        | 157.99                   | 159.40                  | 1.41                    | 1.04                 | 0.89                    | 14.40           | 12,11              | 27.30                 | 25.50                   | 57.26             | 61.50                 | 29,64                 | 29.91                      | 1.14              | 0.99                | 92,45        | 1.42                          |                                   |        |
|                  | 20    |                        | 164.04                   | 164.30                  | 0.26                    | 0.90                 |                         | 34.57 -         |                    |                       |                         |                   |                       |                       |                            | 4,26              |                     |              | 1.65                          |                                   |        |
|                  | 2     |                        | 169,12                   | 173,85                  | 4,73                    | 0.61                 | 0.89                    | 18.10           | 10,92              | 24,36                 | 27,66                   | 56.93             | 60.53                 | 28.31                 | 31.32                      | 1,29              | 0.92                | 81.82        | 1.46                          |                                   | 2,0    |
| T93R-23/         | la    | •                      | 99,98                    | 100,78                  | 0,80                    | 0.71                 | 1.16                    | 37.93           | 21,89              | 23.28                 | 29.84                   | 38.08             | 47.11                 |                       |                            | 2.63              | 1.97                | 53.76        | 1.70                          |                                   |        |
| T93D-23          | 16    |                        | 105.19                   | 105.38                  | 0.19                    | 0.55                 |                         | 17.71           | -                  |                       |                         |                   |                       |                       |                            | 1,75              |                     | 25.70        | 1.46                          |                                   |        |
|                  | lc    |                        | 106,37                   | 107.28                  | 0,91                    | 0,74                 | 1.36                    | 23.73           | 16.39              | 28.71                 |                         | 46,82             |                       | 25.99                 |                            | 4,57              | 2.75                | 73,38        | 1.53                          |                                   |        |
|                  | 1d    |                        | 117,67                   | 118,20                  | 0,53                    | 0.57                 | 0.85                    | 49.82           | 20,15              |                       |                         |                   |                       |                       |                            | 15,09             | 3.12                | 20.46        | 1.86                          |                                   |        |
|                  | le    |                        | 131.02                   | 132.70                  | 1.68                    | 0.64                 | 2.09                    | ,31.10          | 16,57              | 23.55                 | 29,01                   | 44.71             | 52,94                 | 23.08                 | 28.37                      | 0.62              | 0,59                | 57,58        | 1.61                          |                                   |        |
|                  | lf    |                        | 134,63                   | 135,42                  | 0.79                    | 0.67                 | 2.00                    | 36.69           | 9.69               | 19,10                 | 28,45                   | 43.54             | 59.86                 |                       |                            | 1.46              | 1,17                | 61,74        | 1,68                          |                                   |        |
|                  | lg    | •                      | 137,81                   | 138,07                  | 0,26                    | 0.63                 | 1.06                    | 30.89           | 17.06              |                       |                         |                   |                       |                       |                            | 4.26              | 2.28                | 57,42        | 1.61                          |                                   |        |
|                  | lh    |                        | 138.57                   | 140.83                  | 2.26                    | 0.63                 | 1,33                    | 21,35           | 13,18              | 25.33                 | 28.97                   | 52.69             | 56,52                 | 26.44                 | 29.63                      | 0.71              | 0.78                | 81,70        | 1.50                          |                                   | 3.5    |

T93D-24 . N/C

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| drill-hole<br>#      | SEAM                                                                         | SEAM<br>REC'VRY<br>(%) | DRILLED \$<br>From                                                                              | EAM INT'RVL<br>To<br>(m)                                                              | SEAM<br>THICKN'S<br>(m)                                                              | RESIDUAL MOISTUF<br>Raw Clean<br>(%)                             | 3 | ASI<br>Raw<br>(%                                   | lî<br>Çican<br>)               | VOLATIL<br>Raw<br>(     | E MATTER<br>Clean<br>%) | FIXED<br>Raw<br>(       | CARBON<br>Clean<br>(%)  | CALOR<br>Raw<br>(R | IFIC VALUE<br>Clean<br>Li/kg) | SUL<br>Raw<br>(                              | PHUR<br>Clean<br>%)          | YIELD<br>(%)                     | SPÉ<br>GR/<br>Raw<br>(g/ce)                  | CIFIC<br>AVITY<br>Wabblty<br>(g/cc) | F.S.L. |   |
|----------------------|------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------|---|----------------------------------------------------|--------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------------|-------------------------------|----------------------------------------------|------------------------------|----------------------------------|----------------------------------------------|-------------------------------------|--------|---|
| T93R-26              | *3L*<br>2<br>2L                                                              |                        | 26.33<br>32,43<br>36.93                                                                         | 28.00<br>33.55<br>37.44                                                               | 1.67<br>1.12<br>0.51                                                                 |                                                                  |   |                                                    |                                |                         |                         |                         |                         |                    |                               |                                              |                              |                                  |                                              |                                     |        |   |
| T93D-27 &<br>T79R-10 | 7<br>.6<br>5/6 Prig<br>5<br>4/5 Prig<br>4<br>3U<br>3 Prig<br>3L<br>3L<br>*2* | not resched            | 87,56<br>101,85<br>107,93<br>108,39<br>112,30<br>112,70<br>121,28<br>122,40<br>123,95<br>121,14 | 88.17<br>107.93<br>108.39<br>112.30<br>115.35<br>122.40<br>123.95<br>125.20<br>122.49 | 0.61<br>6.08<br>0.46<br>3.91<br>0.40<br>2.65<br>1.12<br>1.25<br>1.25<br>1.25<br>1.35 | 0.33 0.77<br>0.52 1.65<br>0.52<br>0.77 1.39<br>0.39<br>0.22 1.66 |   | 14.31<br>16.65<br>81.08<br>16.85<br>82,18<br>24,93 | 8,71<br>6.49<br>10.47<br>14.93 | 31.99<br>25,60<br>24.17 | 32.77<br>29.59<br>27.62 | 53,37<br>57.23<br>58,21 | 57.75<br>62.27<br>60.52 | 30.12              | 32.11<br>31.98                | 2,19<br>0,71<br>0,74<br>0,47<br>2,20<br>1,05 | 1.78<br>0.61<br>0.57<br>0.58 | 93.03<br>84.53<br>87.06<br>78.68 | 1.42<br>1.45<br>2.44<br>1.45<br>2.47<br>1.54 | ۰.                                  |        |   |
| <b>T93R-28</b>       | 7<br>6U<br>6P<br>6L<br>5<br>4<br>3U<br>3P<br>3L<br>2                         |                        | 38.78<br>55.43<br>56.73<br>58.55<br><br>65.73<br>66.99<br>73.96                                 | 39.54 .<br>56.73<br>56.73<br>58.55<br>63.95<br><br>66.92<br>66.99<br>68.42<br>74.95   | 0.76<br>1.30<br>1.82<br>5.40<br>1.19<br>0.07<br>1.43<br>0.99                         |                                                                  |   |                                                    |                                |                         |                         |                         |                         |                    |                               |                                              |                              |                                  |                                              |                                     |        |   |
| 193R-28P             | ?<br>6P<br>6<br>5<br>4<br>3U<br>3P<br>3L<br>2                                |                        | 51.11<br>52.62<br>52.99<br>53.37<br><br>63.43<br>64.32<br>64.32<br>64.42<br>68.18               | 51.32<br>52.99<br>53.37<br>53.76<br><br>64.32<br>64.42<br>66.02<br>69.25              | 0.21<br>0.37<br>0.38<br>0.39<br>0.89<br>0.10<br>1.60<br>1.07                         | •                                                                |   |                                                    |                                | ,                       |                         |                         |                         |                    |                               |                                              |                              |                                  |                                              |                                     |        | • |
| T93R-29              | 1<br>?<br>1<br>1<br>7                                                        |                        | \$7.36<br>104.27<br>105.62<br>110.86<br>117,49<br>118.93<br>121.86                              | 88.43<br>104.70<br>106.10<br>112.47<br>118.42<br>119.59<br>122.45                     | 1,07<br>0,43<br>0,48<br>1,61<br>0,93<br>0,66<br>0,59                                 | · .<br>, · ·                                                     |   |                                                    |                                | -                       |                         |                         |                         |                    |                               |                                              |                              |                                  |                                              |                                     |        |   |

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| DRILL-HOLE<br># | SEAM   | SEAM<br>REC'VRY<br>(%) | DRILLED SEAM INT'R\<br>From To<br>(m) | L SEAM<br>THICKN'S<br>(m) | RESIDUAL MOISTURE<br>Raw Clean<br>(%) | ASII<br>Raw Clean<br>(%) | VOLATILE MATTER<br>Raw Clean<br>(%) | FIXED CARBON<br>Raw Cican<br>(%) | CALORIFIC VALUE<br>Raw Clean<br>(MJ/kg) | SULPHUR<br>Raw Clean<br>(%) | YIELD<br>(%) | SPECIFIC<br>GRAVITY<br>Ram Wabbley<br>(g/cc) (g/cc) | F.S.L |
|-----------------|--------|------------------------|---------------------------------------|---------------------------|---------------------------------------|--------------------------|-------------------------------------|----------------------------------|-----------------------------------------|-----------------------------|--------------|-----------------------------------------------------|-------|
| 93R-30          | 1      |                        | 88.53 89.53                           | 1.00                      |                                       |                          |                                     |                                  |                                         | •                           |              |                                                     |       |
|                 | I      |                        | 91,99 92,26<br>93,07 93,67            | 0,27                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 1      |                        | 99.30 100.30                          | 1.00                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 1      |                        | 101.04 101.62                         | 0,58                      |                                       |                          | •                                   |                                  |                                         |                             |              |                                                     |       |
| •               | t      |                        | 102.75 104.82                         | 2.07                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 1      |                        | 111.59 112,08                         | 0,49                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 1      |                        | 113,67 114,24                         | 0.57                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
| 93R-32          | 11     |                        | 28,23 29,24                           | 1,01                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 10     |                        | 33,46 34,45                           | 0.99                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 9      |                        | 38.02 38.31                           | 0,29                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 8      |                        | 39,37 40,66                           | 1,29                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     | •     |
|                 | á      |                        | 43,40 43,79                           | 1 38                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 6P     |                        | 65.08 66.26                           | 1,18                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 6L     |                        | 66.26 67,84                           | 1,58                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 5      |                        | 78.98 82.11                           | 3.13                      |                                       |                          |                                     |                                  | •                                       |                             | -            |                                                     |       |
|                 | 4      |                        | 82.55 84.11                           | 1,56                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 3U     |                        | 88.33 89.46                           | 1.13                      |                                       |                          | ,                                   |                                  |                                         | -                           |              |                                                     |       |
|                 | 3P     |                        | 89,46 90,54                           | 1.08                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 2      |                        | 99,80 103,59                          | 3,79                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     | -     |
|                 |        |                        |                                       |                           |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
| 93R-33          | N/C    |                        |                                       |                           | ×                                     |                          |                                     |                                  |                                         |                             |              |                                                     |       |
| 93R-35          | 10     |                        | 49.03 49.36                           | 0.33                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 9      |                        | 51.25 51.62                           | 0,37                      |                                       |                          | •                                   |                                  |                                         |                             |              |                                                     |       |
|                 | 8      |                        | 51.94 53.75                           | 1.81                      |                                       | •                        | •                                   |                                  |                                         |                             |              |                                                     |       |
|                 | ?<br>7 |                        | 55.84 56,11                           | 0.27                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 6      |                        | 85.69 88.45                           | 2.76                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 5/6P   |                        | 88,45 88,55                           | 0,10                      |                                       | ,<br>,                   |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 5      |                        | 88,33 91,45<br>01,73 03,63            | 2.90                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 4 -    |                        | 93 13 95.32                           | 2.05                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 30     |                        | 98.81 99.54                           | 0.73                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |
|                 | 3P     |                        | 99.54 99.61                           | 0.07                      |                                       |                          |                                     |                                  | •                                       |                             |              |                                                     |       |
|                 | 3L     |                        | 99.61 100,77                          | 1.16                      |                                       |                          |                                     |                                  |                                         | -                           |              |                                                     |       |
|                 | 2      |                        | 105.03 106.33                         | 1,30                      |                                       |                          |                                     |                                  |                                         |                             |              |                                                     |       |

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| DRILL-HOLE<br># | SEAM      | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>( | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw<br>( | MOISTURE<br>Clean<br>%) | A<br>Raw<br>( | SH<br>Clean<br>%) | VOLATIL<br>Ratt<br>(' | E MATTER<br>Clean<br>%) | FIXED (<br>Raw<br>(? | CAREON<br>Clean<br>%) | CALOF<br>Ray<br>( | UFIC VALUE<br>r Clean<br>MJ/kg) | SI<br>Ray | JLPHUR<br>7 Clean<br>(%) | YIELD<br>(%) | SPECIFIC<br>GRAVITY<br>Raw Wahbliy<br>(g/cc) (g/cc) | F.S.I. |
|-----------------|-----------|------------------------|------------------------|-------------------------|-------------------------|----------------------|-------------------------|---------------|-------------------|-----------------------|-------------------------|----------------------|-----------------------|-------------------|---------------------------------|-----------|--------------------------|--------------|-----------------------------------------------------|--------|
| <b>F93D-4</b> 4 | 11        | 100                    | 20,05                  | 20,71                   | 0.66                    | 0.30                 | 1.63                    | 22.25         | 17.74             | 25.99                 | 25.50                   | 51.46                | \$5.13                | 26.60             | 27.83                           | 1.56      | 1 43                     | 81.71        | ;<br>1 \$1                                          |        |
|                 | 10        | 100                    | 25.29                  | 26.18                   | 0.89                    | 0.28                 | 1,30                    | 14.88         | 9,20              | 29.93                 | 30,10                   | 54.91                | 59.40                 | 29.64             | 31.44                           | 3 22      | 218                      | 87.46        | 1.42                                                |        |
|                 | 9         | 100                    | 28.74                  | 29.07                   | 0.33                    | 0.23                 | 1.17                    | 28,35         | 12.93             | 27.07                 | 29,27                   | 44,35                | 56.63                 | 22.72             | 30.12                           | 8.66      | 3.89                     | 59.01        | 1.58                                                | •••    |
|                 | 8         | 100                    | 31.08                  | 32.70                   | 1,62                    | 0.24                 | 1,26                    | 18.78         | 11.72             | 25.08                 | 26,39                   | 55.90                | 60.63                 | 27.79             | 29.98                           | 2.33      | 1.59                     | 84.87        | 147                                                 |        |
|                 | ?         |                        | 35,56                  | 35.78                   | 0,22                    |                      |                         |               |                   |                       |                         |                      |                       |                   |                                 |           |                          | •            | 1.47                                                |        |
|                 | 7         |                        |                        |                         |                         |                      |                         |               |                   |                       |                         |                      |                       |                   |                                 |           |                          |              |                                                     |        |
|                 | 6U        | 100                    | \$6.69                 | 58.14                   | · 1.45                  | 0.24                 | 0.96                    | 16.40         | 7,05              | 29,79                 | 32.04                   | 53,57                | 59,95                 | 28,88             | 32.26                           | 3.79      | 1.06                     | 83.69        | 1.44                                                |        |
|                 | 6P        |                        | · 58.14                | 59.87                   | 1,73                    |                      |                         |               |                   |                       |                         |                      |                       |                   |                                 |           |                          |              |                                                     |        |
|                 | 6L        | 91                     | 59.87                  | 61.21                   | 1.34                    | 0,35                 | 0.61                    | 15.31         | 8.57              | 27.10                 | 28,21                   | \$7.24               | 62.61                 | 29,14             | 31,52                           | 2.65      | 1.65                     | 89.11        | L43                                                 |        |
|                 | Sex?      | 80                     | 67.21                  | 68,19                   | 0,98                    | 0.45                 | 0.53                    | 41,21         | 22,99             | 23,52                 | 26.80                   | 34,82                | 49,68                 | 19.29             | 26.49                           | 1.22      | 1.98                     | 49.39        | 1.74                                                |        |
|                 | \$        | 98                     | 73.65                  | 75.57                   | 1.92                    | 0.07                 | 0,64                    | 18.26         | 13,16             | 26,14                 | 27.11                   | 55,53                | 59,09                 | . 28,19           | 29.83                           | 1.01      | 0.78                     | 84.59        | 1 47                                                |        |
|                 | 4/5 Pring |                        | 75.57                  | 76.10                   | 0,53                    | 0.59                 |                         | 80.30         |                   |                       |                         |                      |                       |                   |                                 | 4.30      |                          |              | 2.42                                                |        |
|                 | 4         | 98                     | 76,10                  | 77.99                   | 1.89                    | 0.66                 | 0.71                    | 16.06         | 10.77             | 27,67                 | 27,16                   | 55.61                | 61.36                 | 28,77             | 30.82                           | 0.65      | 0.65                     | 89.98        | 1.44                                                |        |
|                 | 3/4 Prig  |                        | . 77.99                | 78.77                   | 0,78                    | 0.75                 |                         | 79.25         |                   |                       |                         |                      |                       |                   |                                 | 2.04      |                          |              | 2.40                                                |        |
|                 | 3U        | · 91                   | 78,77                  | 79.74                   | 0,97                    | 0.65                 | 0.87                    | 13.58         | 10.31             | 27.86                 | 27.43                   | 57,91                | 61.39                 | 29.99             | 30,97                           | 0,91      | 1,26                     | 93.57        | 1.41                                                |        |
|                 | 3P        |                        | 79,74                  | 80,30                   | 0.56                    | 0.65                 |                         | 85,28         |                   |                       |                         |                      | •                     | -                 |                                 | 0.93      |                          |              | 2,54                                                |        |
|                 | 3L,       | 100                    | 80.30                  | 81.32                   | 1.02                    | 0,64                 | 0,84                    | 19.79         | 14.00             | 25,98                 | 25.27                   | 53.59                | 59,89                 | 27,38             | 29.43                           | 2.68      | 1,26                     | 83,46        | 1.48                                                |        |
| •               | 2         | . 95                   | 88,18                  | 91,82                   | 3.64                    | 0,30                 | 0.76                    | 21,34         | 10.43             | 25.82                 | 27.46                   | 52,54                | 61.43                 | 26.91             | 30.73                           | 1.06      | 0.76                     | 77 61        | 1.50                                                |        |

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|------------|----------------------------------------------------------------------------------------------------|----------------------|-------|--------------|--------------|---------|----------------------|---------|------------|----------------------|--------------|------|-------|------|-------|-----|-------------------------------------|------|-----|--------------|----------|--------|-------|----|-------------|------|-------|------------|---------|----------|-----------|----------|-------------|---------------------|-------------|---|
|            |                                                                                                    |                      |       |              |              | RA      | Waulfur              | FORMS   | WAS1       | ED SULFU             | R FORMS      |      |       |      |       |     |                                     |      |     |              |          |        |       |    |             | A.D. |       |            |         |          | oriniziia |          | FUSION ANA  | YELS OF ASIL -      | <br>hEntime | - |
| DRILL-HOLE | SEAM                                                                                               | EQM<br>MOISTR<br>(%) | ILG.L | F<br>(%)     | ст.<br>(%)   | 27rilde | %<br>A.D.<br>Sulfate | Organie | Pyshie     | 26<br>A.D<br>Sulfate | Organic      | SIQ2 | Alioj | T102 | Fr203 | C+0 | M <u>r</u> O<br>M <u>r</u> O<br>(%) | Na2O | 120 | <b>P</b> 205 | -<br>503 | Undet. | *1120 | %C | - UCHMO<br> |      | %A511 | <b>%</b> 5 | -<br>*0 | <br>Lab. | Sen.      | ) (rank. | 57add<br>(7 | נאול.<br>אוף. (ר) — | llends,     | , |
| T89D924    | 9<br>?<br>8<br>?<br>7<br>6L                                                                        |                      |       |              |              |         |                      | ,       |            |                      | ı            |      | •     |      |       |     |                                     |      |     |              |          |        |       |    |             |      |       |            |         |          |           |          |             |                     |             |   |
|            | SU<br>S Pring<br>SL<br>S                                                                           |                      |       |              |              |         |                      |         |            |                      |              |      |       |      |       |     |                                     |      |     |              |          |        |       |    |             |      |       |            |         |          |           |          |             |                     |             | ı |
| ·          | 4                                                                                                  |                      |       |              | •            |         |                      |         |            |                      |              |      |       |      |       |     |                                     |      |     |              |          |        |       |    |             |      |       |            |         |          |           |          |             |                     |             |   |
| T89D925    | 11<br>10<br>8<br>?<br>6<br>7<br>6<br>7<br>6<br>7<br>5<br>7<br>4<br>7<br>7<br>5<br>7<br>5<br>6<br>1 |                      |       |              |              |         |                      |         | -          |                      |              |      |       |      |       |     |                                     |      |     |              |          |        |       |    |             |      |       |            |         |          |           |          |             |                     |             |   |
|            | SU<br>S Pritag<br>SL <sup>°</sup> .<br>S                                                           |                      |       |              |              |         |                      |         |            |                      |              |      |       |      |       |     |                                     |      |     |              |          |        |       |    |             |      |       |            |         |          |           |          | •           |                     | `           |   |
|            | 4<br>3U<br>3 Pring<br>3L<br>2                                                                      |                      |       |              |              |         |                      |         |            |                      |              |      |       |      |       |     |                                     |      |     |              |          |        |       |    |             |      |       |            |         |          |           |          |             |                     |             |   |
| T92D-02    | FAULT<br>4<br>3U<br>2<br>2L                                                                        | 3.9                  |       | 0.09<br>0.01 | 0.14<br>0 08 | 02      | 20 0.10              | 0.33    | 0.1<br>0.5 | .6 0.01<br>3 0.05    | 0.29<br>0.51 |      |       | ×    |       |     |                                     |      |     |              |          |        |       |    |             |      |       |            |         |          |           |          |             | ·                   |             |   |

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|-------------|-------------------------------------------------|-------------------|--------|----------------------|----------------------|----------------------|--------------------------------|----------------------|-------|----------------------|----------------------|----------------------|-------------------------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|----------------------|----------------------|------------------------|----------------------|----------------------|--------------|--------------|--------------|---------------------|--------------|--------------|--------------|--------------|
|             |                                                 | 7051              | 11/2.1 |                      | а.                   |                      |                                |                      |       | ******               |                      | 120/013              |                         |                         |                      |                      |                      |                      |                      |                      |                      |                      | 1                    |                      |                         |                      | A.D.                 |                        |                      | 1                    |              |              |              | FUSION ANALYSIS     | OF ASIL -    |              |              |              |
| DEST LUIOTE | SPAN                                            | NOISTER           | 12010  | •                    | ~                    |                      |                                |                      |       |                      |                      |                      | 101                     | 1003                    | -                    | F-303                | UNERAL A             | ALTSIS U             |                      |                      |                      | -                    |                      |                      |                         | - ULTIMA             | TEANALY              | \$15                   |                      | -                    |              | OXIDIZIN     | G            |                     |              |              | REDUCING     |              |
| •           | <b>UDINE</b>                                    | (%)               |        | • (%)                | (%)                  | Fyrikie              | Salisi                         | e Orga               | nke P | yrick<br>'           | Salfola              | Organic              | 5103                    | A200                    | 101                  | 1100                 |                      | - (%)                | N#20                 | K20                  | F205                 | 503                  | Undet.               | %1120                | %C                      | <del>%</del> 1!      |                      | 94A51(                 | <b>%</b> 5           | *0                   | [nK          | Seft.        | ITends.      | тын<br>——— (Гемр С) | Init.        | Seft.        | ltends.      | Field        |
| T92D-05     | 11<br>10<br>8<br>FAULT<br>Sex                   | ·                 |        |                      |                      |                      |                                |                      |       |                      |                      |                      |                         |                         |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | ·                       |                      |                      |                        |                      |                      |              |              |              |                     |              |              |              | <u> </u>     |
|             | SU<br>S Pring<br>SL<br>4<br>3U<br>S Pring<br>3L |                   |        |                      |                      |                      |                                |                      |       |                      |                      |                      |                         |                         |                      |                      | -                    |                      |                      |                      |                      |                      |                      |                      |                         |                      |                      |                        |                      |                      |              |              |              |                     |              |              |              |              |
|             | 2<br>2L                                         | 3.9               |        | 0.09                 | 0.25                 | 0.05                 | ) traci                        | e 0.46               |       | 0.13                 | 0.02                 | 0,42                 | 60.36<br>,              | 19.85                   | 1.41                 | 3.03                 | 6.80                 | <sup>-</sup> 0.78    | 0.65                 | 0.48                 | 2.57                 | 2.12                 | 1.95                 | 3.29                 | 76.09                   | 5.91                 | 0.78                 | 8.59                   | 0.57                 | 4.77                 |              |              |              |                     |              |              |              |              |
| T92R-06     | NC                                              |                   |        |                      |                      |                      |                                |                      |       |                      |                      |                      |                         |                         |                      |                      |                      |                      |                      |                      |                      |                      | •                    |                      |                         |                      |                      |                        |                      |                      |              |              |              |                     |              |              |              |              |
| T92D-07     | 6U<br>6 Pring                                   | 2.8               |        | 0.05                 | 0.15                 | 3.88                 | 0.03                           | \$ 0.59              |       | 0.71                 | 0.06                 | 0.75                 | 52.32                   | 14.73                   | 0.69                 | 14.66                | 6,49                 | 1.04                 | 0.59                 | 051                  | 1.24                 | 5.91                 | 1.82                 | 1.46                 | 76.76                   | 4.80                 | 0.93                 | 7.96                   | 1.52                 | 6.57                 |              |              |              |                     |              |              |              |              |
|             | 6L<br>5<br>4                                    | 2.9<br>3.5<br>3.0 |        | 0.02<br>0.08<br>0.05 | 0.13<br>0.12<br>0.06 | 0.30<br>0.03<br>0.12 | i 0,01<br>i tracci<br>i tracci | 0.63<br>0.47<br>0.56 |       | 0.21<br>0.07<br>0.10 | 0.02<br>0 01<br>0.01 | 0.61<br>0.44<br>0.55 | 61.90<br>59.72<br>65.14 | 25.12<br>27.11<br>18.71 | 1.50<br>1.40<br>1.15 | 3.75<br>1.72<br>2.34 | 2.60<br>3.75<br>5.81 | 0.88<br>0.98<br>0.90 | 0 62<br>0 65<br>0.55 | 0.55<br>0.54<br>0.54 | 0.58<br>1.63<br>1.31 | 1.83<br>1.26<br>2.27 | 0.67<br>1.24<br>1.28 | 1.39<br>1.88<br>1.74 | 75.33<br>74.12<br>76.50 | 4.38<br>4.33<br>4.55 | 0.71<br>0.67<br>1.12 | 10.02<br>11.15<br>9.24 | 0.84<br>0.52<br>0.66 | 7.33<br>7.33<br>6.19 | 1268<br>1363 | 1447<br>1472 | 1472<br>1472 | 1472<br>1472        | 1263<br>1326 | 1431<br>1452 | 1455<br>1468 | 1472<br>1472 |
|             | 3U<br>3 Pring<br>3L<br>3                        |                   |        | 0.05                 | 0.06                 |                      |                                |                      |       | 0.23                 | 0.01                 | 0.65                 |                         |                         |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |                         |                      |                      |                        |                      |                      |              |              |              |                     |              |              |              |              |
|             | 2                                               | 3.2               |        | 0.09                 | 0.10                 | 0,45                 | 6.0                            | 0.56                 |       | 0.16                 | 0.01                 | 0.51                 |                         |                         |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      | •                       |                      |                      |                        |                      |                      |              |              |              |                     |              |              |              |              |

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|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------|------------------------------|------------------------------|----------------------|----------------------------|---------------------------|----------------|--------------------------|------------------------------|-----------------------------------------|----------------------|----------------|----------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|----------------|--------------|--------------|-------|-----------|--------|-----------|----------|-------------|-------|---------|-------|
|                 |                                                                                                                                                                       |                |       |                              |                              | RAV                  | VSULFUI                    | R FORM                    | ts             | WAS                      | ited 5U                      | LIURIO                                  | RM3                  |                |                |              |                |              |              |              |              |              |              |              |              |                |              | A.D.         |                |              | 1            |       | ·         |        | FUSION    | ANALYSI  | SO7 ASII    |       |         |       |
|                 |                                                                                                                                                                       | EQM            | ILG.L | 2                            | CL                           |                      |                            |                           |                | -                        | •                            | 4                                       | -                    |                | *******        |              | 1              | SINERAL A    | NALYSIS O    | F A5H        | ····         |              | -            |              | -            |                | - ULTIMAT    | TE ANALYS    |                |              | ·            |       | OXIDIZING | i      |           |          |             |       | REDUCIN | 3 5   |
| drill-Hole<br>S | 5EAM                                                                                                                                                                  | MOIST'R<br>(%) |       | (%)                          | (%)                          | <b>Pyritie</b>       | A.D.<br>Selfet             | le On                     | ganle          | Fyride                   | A.<br>Sali                   | D                                       | r-mic                | 5102           | A1203          | T102         | Fr203          | <u> </u>     | ығо<br>- (%) | N=20         | K10          | P205         | 503          | Undet        | %H10         | #C             | 51 <br>      | #N<br>(%)    | %ASU<br>       | %5           | *0           | jail. | 54A.      | Henia. | 17adi<br> | (Temp. ( | 1ait.<br>C) | Seit, | Hemis.  | Fluid |
| Ty2R-08         | 11<br>10<br>9<br>8<br>7<br>6U Rep<br>6L Rep<br>5ex Rep<br>FAUET<br>7<br>7<br>6U<br>6 Pring<br>6L<br>5ex<br>6U<br>5 Pring<br>5L<br>4<br>7<br>3 U<br>3 Pring<br>3L<br>2 |                |       |                              |                              |                      |                            |                           |                |                          |                              |                                         | ,                    |                |                |              |                |              |              |              |              |              |              |              |              |                |              |              |                |              |              |       |           |        |           |          |             |       |         |       |
| T92D-09         | L1<br>10<br>9<br>8<br>7                                                                                                                                               | 3.7<br>3.5     |       | 0.03<br>0.19<br>0.04<br>0.03 | 0.46<br>0.40<br>0.17<br>0.45 | 1.77<br>1.59<br>1.54 | 7 0.04<br>8 0.01<br>4 0.01 | 6 0.0<br>15 0.1<br>13 0.1 | 63<br>88<br>70 | 1.0<br>0.4<br>0.1<br>0.7 | 09 0<br>55 0<br>16 0<br>72 0 | .12 0.0<br>.06 0.5<br>.11 2.3<br>05 0.8 | 01<br>92<br>71<br>50 | 51.04<br>54.04 | 23.13<br>26.25 | 1.80<br>1.76 | 18.02<br>10.51 | 1.81<br>2.63 | 0.75<br>0.51 | 0.73<br>0.59 | 0.67<br>0.29 | 0.54<br>0.28 | 0.85<br>2.59 | 0 66<br>0.55 | 1.92<br>2.01 | 68.82<br>73.31 | 4.01<br>3.91 | 1.01<br>0.79 | 16.37<br>11-51 | 2.93<br>1.57 | 4.89<br>6.90 | 1342  | 1447      | 1468   | 1472      |          | 1265        | 1342  | 1373    | 1463  |
|                 | 6 Pring<br>6 L<br>Sex                                                                                                                                                 | 4.0            |       | 0.12<br>0.04                 | 0.31<br>0.05                 | 1.4                  | 1 0.0                      | i 0.9                     | 90             | 0.:<br>0.                | 39 O<br>15 O                 | 05 08<br>.01 0.4                        | 89<br>45             | 65.68          | 27.87          | 1.40         | 1.60           | 0.87         | 0.40         | 0 65         | 0.36         | 0.44         | 0.07         | 0.66         | 2.14         | 65.21          | 3.74         | 0.91         | 20.21          | 0.61         | 7.18         |       |           |        |           |          |             |       |         |       |
|                 | 7<br>5U<br>5 Pring                                                                                                                                                    |                |       | 0.11                         | 0.13                         |                      |                            |                           |                | 0.                       | 18 0                         | .03 0 6                                 | 63                   | 58.32          | 30.21          | 1.50         | 2.60           | 2.55         | 0.48         | 0.65         | 0.22         | 1.68         | 1.03         | 0.76         | 1.66         | 72.02          | 4.22         | 0.98         | 13.24          | 0.84         | 7,04         |       |           |        |           |          |             |       |         |       |
|                 | 5L<br>4<br>3U<br>3 Fring<br>3L<br>3<br>2                                                                                                                              |                |       | 0,10                         | 0.10                         |                      |                            |                           |                | 0.4                      | 08 O                         | .02 0.4                                 | 47                   |                |                |              |                |              |              |              | Ŧ            |              |              |              |              |                |              |              |                |              | •            |       |           |        |           |          |             |       |         |       |
| T92R-10         |                                                                                                                                                                       |                |       |                              |                              |                      |                            |                           |                |                          |                              |                                         |                      | ,              |                |              |                |              |              |              |              |              |              |              |              |                |              |              |                |              |              |       |           |        |           |          |             |       |         |       |

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|                  |                | 7011 |      |      | ~    | R      | W SULFU | R FORMS   | W    | ASILED | SULFUR FO  | RMS   |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      | ••   |      | -          |        | - FUSION  | NALYSIS OF A | stl  |         |            |
|------------------|----------------|------|------|------|------|--------|---------|-----------|------|--------|------------|-------|-------|-------|------|-------|----------|------------|--------|------|------|------|--------|------|-------|--------|------------|-------|------|------|------|------------|--------|-----------|--------------|------|---------|------------|
| -                | 67137          | EQM  | 1664 |      | CL.  | -      | %·      | ·······   |      |        | - %        |       |       |       |      |       | MINERAL. | ANALYSIS ( | OF ASH |      |      |      |        |      |       | - ULTI | MATE ANAL  | Y819  |      |      | I —  | - ONIDIZIN | G      |           |              | -    | RED     | KING       |
| #                | SEAM           | (%)  | ,    | (%)  | (%)  | Tyrtic | Salfai  | e Orzanie | Tyri | ide :  | Bulfate Or | rente | 502   | 700   | 101  | 14100 |          | Mg0<br>(%) | N#20   | K20  | P205 | 503  | Updet, | %120 | %C    | *n<br> | ***<br>(*) | %ASU  | *5   | *0   | Jak, | 5oî.       | linde. | Field<br> | - (Tray, C)  | [nk. | int. It | mis. Flair |
| 92R-30C          | 11             |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | 10             |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      | •    |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | 9              |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | 7              |      |      |      |      |        | •       |           |      |        |            |       |       |       |      |       | •        |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | ស              |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      | •    |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | 6 Pring        |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | 6L<br>7        |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      | ~     |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | 5              |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  |                |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | 3U<br>3 Peters |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | 31             |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | ZU             |      |      | 0.01 | 0.01 |        |         |           | •    | 1.27   | 0.05 0.3   | 70    | 63,18 | 21.24 | 1.39 | 8,58  | 1.81     | 0.68       | 0.59   | 0.23 | 0.01 | 1,47 | 0.82   | 1,36 | 64.78 | 3.81   | 0.85       | 21.96 | 2.02 | 5.22 |      |            |        |           |              |      |         |            |
|                  | 2              |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
| 92R-33           | 3U             |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | 3 Pring        |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | 3L<br>211      |      |      |      |      |        |         |           |      |        |            |       | •     |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | 2              |      |      |      |      | -      |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        | •         |              |      |         |            |
|                  |                | •    |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
| 192 <b>R-3</b> 5 |                |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | i              |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | 1              |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | 1              |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | i              |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              | •    |         |            |
|                  | 1              |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | 1              |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
|                  | I              |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |
| 20142            | 11             |      |      |      |      |        |         |           |      |        |            |       |       |       |      |       |          |            |        |      |      |      |        |      |       |        |            |       |      |      |      |            |        |           |              |      |         |            |

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|               |                 |                |        |     |             | KAN          | rsulfur         | TORMS        | w,     | ASII CD 81       | ULFURE           | ORMU                |       |       |       |       |          |            |         |      |      |      | 1      |       |       |         | A.D.        |           |      |      |      |          |        | <b>FUSION ANAL</b> | YSIS OF ASIL   |       |           |       |
|---------------|-----------------|----------------|--------|-----|-------------|--------------|-----------------|--------------|--------|------------------|------------------|---------------------|-------|-------|-------|-------|----------|------------|---------|------|------|------|--------|-------|-------|---------|-------------|-----------|------|------|------|----------|--------|--------------------|----------------|-------|-----------|-------|
|               |                 | EQM            | ILG.L  | ۲   | CL.         |              | %               | <u> </u>     |        | <u> </u>         | *                | — I                 | ·     |       |       | X     | UNERAL A | NALYSIS O  | PASIE — |      |      |      |        |       |       | ULTIMAT | T ANALYSI   | 15        |      | .    | (    | XIDIZING |        |                    |                |       | - REDUCEN | G     |
| #             | SZAM            | MOIST'R<br>(%) |        | (%) | (%)         | Pyrtik       | A.D.<br>Salfate | Organie      | 2 yrlu | ie 54            | A.D.<br>Alfate O | Trank               | 5102  | 7203  | TKO3  | Fe203 |          | Mg0<br>(%) | N=20    | ¥20  | 1205 | 503  | Undet. | *1110 | %C    | ****    | ***<br>(**) | KASH<br>→ | %3   | ¥0   | Inic | Soft,    | Hends. | Tiniki<br>(Tr      | Init<br>mp. () | Seft. | Hends.    | Flaid |
| 1             | 11              |                |        |     |             |              |                 |              |        |                  |                  | •                   |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |
|               | 9<br>8          |                |        |     |             |              |                 |              |        |                  |                  |                     |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |
|               | 7               |                |        |     |             |              |                 |              |        |                  |                  |                     |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      | ,        |        |                    |                |       |           |       |
| r             | 6U<br>6P        |                |        |     |             |              |                 |              |        |                  |                  |                     |       |       |       |       |          |            |         |      |      |      | •••    |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |
|               | 61,<br>5        |                |        |     |             |              |                 |              |        |                  |                  |                     |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    | ٠              |       |           |       |
|               | 4<br>3U         |                |        |     |             |              |                 |              |        |                  |                  |                     |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |
|               | 3P<br>3L        |                |        |     |             |              |                 |              |        |                  |                  |                     |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |
|               | 2               |                |        |     |             |              |                 |              |        |                  |                  |                     |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |
| -22/ *<br>-22 | 11<br>10        | 3.8            | 65.00  |     | 0.26        | 3.60         | 0 08            | 1.91         |        | 0.69 (           | 0.03 I           | .71                 | 56.58 | 18.44 | 1.02  | 16.55 | 3.37     | 0.32       | 0.28    | 0.46 | 0.80 | 1.33 | 0.86   | 0.90  | 72.41 | 4.69    | 0.97        | 13.42     | 2.43 | 5.18 | 1300 | 1331     | 1355   | 1384               | 1205           | 1218  | 1236      | 1258  |
|               | 9<br>8          |                |        |     |             | 2.16<br>0.53 | 0.11            | 1.19<br>0.57 |        | 0,69 (<br>0.26 ( | 0.06 I<br>0.01 0 | 1.70<br>).59        | 54.54 | 29.81 | 1.29  | 5.46  | 4.35     | 0.50       | 0.31    | 0.78 | 0.07 | 1.73 | 1.15   | 0.98  | 75.40 | 4.34    | 0.90        | 11.13     | 0,86 | 6.39 |      |          |        |                    |                |       |           |       |
|               | 7<br>6          |                | 69.00  |     |             | 2.12<br>0.82 | 0.07<br>0.01    | 1.24<br>0.80 |        | 0.79 0           | 0.03 2<br>0.01 0 | 2 <u>02</u><br>),72 | 60.13 | 31.05 | L.48  | 3.19  | 1.35     | 0.15       | 0.20    | 0.53 | 0.03 | 0.32 | 1.57   | 1.08  | 79 67 | 4.74    | 1.00        | 6.03      | 0.86 | 6.62 | 1472 | 1472     | 1472   | 1472               | 1473           | 1472  | 1472      | 1472  |
|               | Pring<br>5      |                |        |     |             | 0.07         | 0.01            | 0.50         |        | 0 03             | <.01 0           | 0.52                | 58.20 | 34.29 | 1.50  | 1.26  | 1.67     | 0.22       | 0.15    | 0.60 | 0.82 | 0.43 | 0.85   | 1.29  | 78.03 | 4.61    | 1.03        | 8.21      | 0.55 | 6.28 |      |          |        |                    |                |       |           | -     |
|               | 4<br>3U         |                |        |     |             | 0.14<br>0.51 | 0.01            | 0.69         |        | 0.29             | 0,01 0           | 1.87                | 06.38 | 18.61 | . 065 | 1.34  | 8.40     | 0.44       | 0.10    | 0.49 | 1,26 | 1.65 | 0.68   | 1.27  | 77.08 | 4.35    | 0.98        | 9.30      | 0,71 | 6.31 |      |          |        |                    |                |       |           |       |
|               | 3P<br>3L<br>211 | 3.0            |        |     | 0.15        | 0.47         | 0.03            | 0.64         |        | 0.28             | 0.01 0           | 0.70                |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |
|               | 2               |                | 71.00  |     |             | 0.63         | 0 0 0 1         | 0.66         |        | 0.25             | <01 0            | ).67                | 59.68 | 23.04 | 1.03  | 4.53  | 6.93     | 0,39       | 0.21    | 0.60 | 0.80 | 1.93 | 0.86   | 1.16  | 76.07 | 4.41    | 1.08        | 10 86     | 0.92 | 5.50 | 1318 | 1347     | 1381   | 1408               | 1289           | 1315  | 1337      | 1379  |
| -23/          | 10              |                |        |     |             | 0.62         | . 001           | 2.01         |        | 0.64             | 0.04 1           |                     |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |
| 0-23          | 16<br>Ie        | 4.0            |        |     | 0,09        | 3.05         | 5 0,14          | 1.38         |        | 0.86             | 0.05             | ,84                 |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |
|               | ld<br>le        |                |        |     |             | 0 03         | 10,0            | 0.59         |        | 0.07             | 0.02 0           | 0.50                |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |
|               | li<br>Ig<br>Ih  | 25             | 84.00  |     | 0.30        | Q.84         | i 0.02          | 0.45         |        | 0.24             | <01 C            | 2.74                | 54 14 | 17.63 | 084   | 4.60  | 16 80    | 1.07       | 214     | 0 33 | 116  | 2 21 | 0.40   | 1.42  | 77.95 | 5.90    | 0.01        | 12 11     | 0.70 | 600  |      |          |        | -                  |                |       |           |       |
|               |                 |                | L-1,00 |     | <b>0.00</b> | 0.10         |                 | 0.45         |        |                  |                  |                     | 27.14 |       | 0.04  |       | 10,00    | 1.07       | U.I.J   | 0.32 | 1.10 | 7.01 | 0.40   | 1.45  | 17.93 | 2.00    | 0.74        | 13.11     | 0.10 | 201  |      |          |        |                    | •              |       |           |       |
| 0-24          |                 |                |        | -   | -           |              |                 |              |        |                  |                  |                     |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |
| R-25          | 2               |                |        |     | •           |              |                 |              |        |                  |                  |                     |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |
|               |                 |                |        |     |             |              |                 |              |        |                  |                  |                     |       |       |       |       |          |            |         |      |      |      |        |       |       |         | •           |           |      |      |      |          |        |                    |                |       |           |       |
|               |                 |                |        |     |             |              |                 |              |        |                  |                  |                     |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |
|               |                 |                |        |     |             |              |                 |              |        |                  |                  |                     |       | -     |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |
|               |                 |                |        |     |             |              |                 |              |        |                  |                  |                     |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    | -              |       |           |       |
|               |                 |                |        |     |             |              |                 |              |        |                  |                  |                     |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      | •        |        |                    |                |       |           |       |
|               |                 |                |        |     |             |              |                 |              |        |                  |                  |                     |       |       |       |       |          |            |         |      |      |      |        |       |       |         |             |           |      |      |      |          |        |                    |                |       |           |       |

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|------------|----------------|---------|-------|-----|------|----------------|---------|------------|--------|--------|-------------|----------------------------------------------|-------|------|-------|----------|----------|---------|------------|------|-----|--------|------|---------|---------|---------|---------------|------|----|------|----------|--------|----------|-------------|------------|-----------|-----------|------|
|            |                | EQM     | ILG.L | 2   | CL.  |                |         | <u> </u>   | _      |        | •           |                                              | -     |      |       | MINERAL. | ANALYSIS | OF AS11 |            |      | _   |        | İ .  | <b></b> | - ULTIM | ATE ANA | LYSIS         |      |    |      | OXIDIZIN | ig     | - Fusion | WINT1919.   | or A311    | R.E       | UCING     |      |
| DRILL-HOLE | SEAM           | M015T'R |       |     |      |                | A.D     | ),         |        | A      | D           | 502                                          | ALCOJ | 1102 | Fr20J | C*0      | MgO      | NeIO    | <b>K10</b> | 2205 | 803 | Undet. | %100 | %C      | %H      | **N     | <b>%</b> A\$1 | 1 48 | *0 | Ink. | Soft.    | Hemis. | Fluid    |             | jait,      | 5oft. 3   | lends, Fi | 7614 |
| *          |                | (%)     |       | (%) | (%)  | <b>Fyritic</b> | Solfai  | ie Organic | Prrise | Sali   | ate Organic |                                              |       |      |       | <u></u>  | - (%)    |         |            |      |     |        |      |         |         | (%)     |               |      |    | 1    |          |        | ·        | - (Temp. C) |            |           |           |      |
|            |                |         | •     |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    | _1   |          |        |          |             |            |           |           |      |
| IR+26      | *3L*           |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 2              |         |       |     |      |                |         |            | ,      |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | <u></u>        |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            |                |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
| 3D-27 &    | 7              | 2.1     |       |     | 0.01 | 1.1            | 3 0.0   | 8 0,98     | 0,7    | 0 0.   | 02 1.06     |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
| /////      | 5/6 Prig       |         |       |     |      | 0.0            | 0.0     | 1 0.08     | 0.0    | ю <.   | 0 033       |                                              |       |      |       |          |          |         | •          |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 5 <sup>°</sup> |         |       |     |      | 0.1            | 6 0.0   | 1 0.31     | 0,0    | 8 0,   | 02 0.47     |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            | •         |           |      |
|            | 4/5 Prtg       |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 30             |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 3 Prtg         |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 3Ľ             |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       | _        |          |         |            |      |     |        | •    |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | -4-            |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       | •        |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            |                |         |       |     |      |                | •       |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
| 93R-28     | 7              |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 6P             |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 6L             |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      | ,   |        | •    |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
| •          | 2<br>4         |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 30             |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 3P             |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 2              |         |       |     |      |                |         |            |        |        |             |                                              |       | •    |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           | •         |      |
| •          |                |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             | •          |           |           |      |
| D10-100    |                |         |       |     |      |                |         |            |        |        |             | •                                            |       |      |       |          |          |         |            |      |     | •      |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
| JR-20F     | 6              |         |       |     | 1    |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 6P             |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 6<br>5         |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 4              |         |       |     |      |                |         |            |        | •      |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      | •        |        |          |             |            |           |           |      |
|            | 3U             |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 3F<br>3L       |         |       |     |      |                |         |            |        | •      |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         | •       |         |               |      |    |      |          |        |          |             |            |           | c         |      |
|            | 2              |         |       |     |      |                | •       |            |        |        |             |                                              |       | •    |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           | ,         |      |
|            |                |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             | •          |           |           |      |
| 93R-29     |                |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | ?              |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         | r          |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 7              |         |       |     |      | •              | •       |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | i              |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 1              |         |       |     |      |                |         |            |        |        |             | • •                                          |       | •    |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            | 7              |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            |                |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            |                |         |       |     |      |                |         |            |        |        | •           |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            |                |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            |                |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            |                |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               | *    |    |      |          |        |          |             |            |           |           |      |
|            |                |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |
|            |                |         |       |     |      |                |         |            |        |        |             |                                              |       |      |       |          |          |         |            |      |     |        |      |         |         |         |               |      |    |      |          |        |          |             |            |           |           |      |

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| a          |           |         |        |          |      | RAV     | VSULFU | R FORMS   | W/    | SHED | ULFURIO   | 413  |      |       |      |       |          |           |             |      |      |               |       |      |       |          | A.D,     |       |      |      |      |          |         | - FUSION | ANALYSIS D   | ASII  |       |          |      |
|------------|-----------|---------|--------|----------|------|---------|--------|-----------|-------|------|-----------|------|------|-------|------|-------|----------|-----------|-------------|------|------|---------------|-------|------|-------|----------|----------|-------|------|------|------|----------|---------|----------|--------------|-------|-------|----------|------|
| •          |           | EQM     | ILC.I. | <b>F</b> | CL.  |         | %      |           |       |      | • *•      | - !  |      |       |      |       | - MINERA | L ANALYSI | S OF ASIL - |      |      |               |       | I    |       | - ULTIND | TE ANALY | /sts  |      | -    | I —  | OXIDIZIN | G       |          |              |       |       | REDUCING | —    |
| DRILL-HOLE | SEAM      | MOIST'R |        |          |      |         | A.D.   |           | -     |      | ፈኪ        | - !  | 5101 | ALION | 7102 | Fe203 | - 00     | ) MgC     | ) Not       | 120  | 1201 | i <u>5</u> 03 | Undet | %100 | %C    | %It      | %N       | %A51[ | %5   | %0   | LAK. | Soft,    | Herala, | Elett    |              | İsli, | Sell. | ][ends,  | 1944 |
| *          |           | (74)    |        | (%)      | (%)  | Pyritie | Sulfat | e Organik | Pyrkl |      | alfaie Or | anic |      |       |      |       |          | (%)       |             |      |      |               |       |      |       |          | (%)      |       |      |      |      |          |         |          | — (Temp.C) · | ····· |       |          |      |
| T91D.44    | 11        | 3.6     |        |          | 0.12 | 0.8     | 1 0.04 | 0.71      | (     | 2.55 | 0.01 0.8  | 1    |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | 10        |         |        |          |      | 1.9     | 7 0.11 | 1.14      | (     | 2.98 | 0.03 1.1  | 7    |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | 0         |         |        |          |      | 7.1     | 1 031  | 1.24      |       | 2.23 | 0.06 1.6  | Ó.   |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            |           |         |        |          |      | 1.1     | 3 0.01 | 1.20      |       | 0.71 | 0.03 0.8  | 5    |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       | •        |      |
|            | 2         |         |        |          |      |         | ,      | ,         |       |      |           |      |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | ÷         |         |        |          |      |         |        |           |       |      |           |      |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | 611       |         |        |          |      | 2.5     | 0 0.03 | 7 1.22    |       | 1.53 | 0.02 0.5  | 1    |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | 6P        |         |        |          |      |         | ,      |           |       |      |           |      |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | 61.       |         |        |          |      | 14      | 7 0.10 | D 1.08    | 4     | 3.26 | 0.01 1.3  | 8    |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | Sex?      |         |        |          |      | 0.5     | 4 0.03 | 3 0.65    |       | 0.74 | 0.04 1.5  | 0    |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      | •    |      |          |         |          |              |       |       |          |      |
|            | •         |         |        |          |      | 01      | 6 00   | 0.65      |       | 109  | 0.07 0.6  | 7    |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | A/C Dates |         |        |          |      | 0.0     | • •    |           |       |      |           | •    |      |       |      |       |          |           |             |      |      |               |       |      |       | •        |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | 40211018  |         |        |          |      | 0.10    | 0 00   | 3 0.52    |       | 0.02 | 0.01 0.6  | 2    |      |       |      | •     |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | 3/4 1240  |         |        |          |      | 0.1     |        |           |       |      | ••••      | -    |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | 111       |         |        |          |      | 0.0     | 1 0.04 | 4. 0.84   |       | 0.40 | 0.03 0.5  | 3    |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | 10        |         |        |          |      |         |        |           |       |      | •         | •    |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | 11        | 21      |        |          | 0.10 | 17      | 4 0.0  | 0.085     |       | D 44 | 6.04 0.7  | 3    |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | 2         | 442     |        |          | V110 | 0.4     | 6 0.0  | 0.60      |       | 0.76 | 0.02 0.6  | 0    |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            | •         |         |        |          |      | 0.1     | • •.•  | • •~•     |       |      |           |      |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            |           |         |        |          |      |         |        |           |       |      |           |      |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            |           |         |        |          |      |         |        |           |       |      |           |      |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            |           |         |        |          |      |         |        |           |       |      |           |      |      |       |      |       |          |           |             |      |      |               |       |      |       |          |          |       |      |      |      |          |         |          |              |       |       |          |      |
|            |           |         | 72.25  | 0.07     | 0.18 |         |        |           |       |      |           | 5    | 8.90 | 23.95 | 1.28 | 6.11  | 4.59     | 0.62      | 0.45        | 0,48 | 0.90 | 1.74          | 0.99  | 1.59 | 73.79 | 4.51     | 0.92     | 11.90 | 1.13 | 6.16 | 1344 | 1409     | 1419    | 1421     |              | 1303  | 1372  | 1390     | 1393 |
|            |           |         | 84.00  | 0.19     | 0.51 |         |        |           |       |      |           | 6    | 5.38 | 34.29 | 1.80 | 18.02 | 16.80    | 1.07      | 0,73        | 0,78 | 2.57 | 5.91          | 1.95  | 3.29 | 79.67 | 5.91     | 1.12     | 21.96 | 2.98 | 7.33 | 1472 | 1472     | 1472    | 472      |              | 1472  | 1472  | 1472     | 1472 |
|            |           |         | 65 00  | 0.01     | 0.01 |         |        |           |       |      |           | 5    | 1.04 | 14,73 | 0,65 | 1.26  | 0.87     | 0.15      | 0.10        | 0.22 | 0.01 | 0.07          | 0.40  | 0.90 | 64.78 | 3.74     | 0.67     | 6.03  | 0.52 | 4.77 | 1268 | 1331     | 1355    | 1384     |              | 1205  | 1218  | 1236     | 1258 |














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# L:800 L:600 N:6060200 E:618200







|       |                     | 4 4                          |       | 4                                |           |             |
|-------|---------------------|------------------------------|-------|----------------------------------|-----------|-------------|
|       |                     |                              |       |                                  |           |             |
| 2     |                     |                              |       |                                  |           | ·<br>·<br>· |
| L:800 | •<br>•<br>• • • • • | •<br>•<br>• • • • • • •      | T88D8 | 03                               |           |             |
|       |                     |                              |       |                                  |           | •           |
|       |                     |                              |       |                                  |           | •           |
|       | -<br>-<br>-<br>-    | -<br>-<br>-<br>-             |       | -<br>-<br>-<br>-<br>-            |           | •           |
| L:600 | · · · · · · · ·     | ·<br>·<br>·<br>· · · · · · · |       | ·<br>·<br>·<br>· · · · · · · · · |           | ·<br>·<br>· |
|       | E:616600            | N:6060400                    |       | E:616800                         | N:6060200 | ·<br>·<br>· |





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| DRILL-HOLE | SEAM      | SEAM<br>REC'VRY<br>(%) | DRILLED SI<br>From<br>(1 | EAM INT'RVL<br>To<br>n) | SEAM<br>THICKN'S<br>(m) | RESIDUAL MOISTURE<br>Raw Clean<br>(%) | ASH<br>Raw Clean<br>(%) | VOLATILE MATTER<br>Raw Cleans<br>. (%) | FIXED CARBON<br>Raw Clean<br>(%) | CALORIFIC VALUE<br>Raw Clean<br>(MJ/kg) | SULPHUR<br>Raw Clean<br>(%) | YIELÐ<br>(**) | SPECIFIC<br>GRAVITY<br>Raw Wshbity<br>(g/cc) (g/cc) | F.S.I |
|------------|-----------|------------------------|--------------------------|-------------------------|-------------------------|---------------------------------------|-------------------------|----------------------------------------|----------------------------------|-----------------------------------------|-----------------------------|---------------|-----------------------------------------------------|-------|
| T94R-44    |           |                        | 64.20                    | 64.59                   | 0.39                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            | •         |                        | . 64,85                  | 65.19                   | 0.34                    |                                       |                         |                                        |                                  |                                         | ,                           |               |                                                     |       |
| T94R-45    | Bentonite |                        | 50.10                    | 50,80                   | 0.70                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            | Mkr Sm    |                        | 82,99                    | 83.13                   | 0.14                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            |           |                        | 83.71                    | 83,90                   | 0,19                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            |           |                        | 84.29                    | 84.45                   | 0,16                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            | 1         |                        | 120,96                   | 122.30                  | 1.34                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            | l Prig    |                        | 122,30                   | 122,50                  | 0,20                    |                                       |                         | -                                      |                                  |                                         |                             |               |                                                     |       |
|            | 1         |                        | 122.50                   | 122.97                  | 0.47                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            | l Prtg    |                        | 122.97                   | 123,23                  | 0.26                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            | . 1       |                        | 123,23                   | 123.97                  | 0,74                    | ,                                     |                         |                                        |                                  | •                                       | •                           |               |                                                     |       |
|            | I tolai   |                        |                          |                         | 3.01                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            |           |                        | 127.54                   | 128,42                  | 0.88                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            |           |                        | 128,71                   | 128.98                  | 0.27                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            |           |                        | 129.38                   | 129.88                  | 0.50                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            |           |                        | 130,13                   | 130,53                  | 0,40                    | •                                     |                         |                                        |                                  | •                                       |                             |               |                                                     |       |
|            |           |                        | 131.46                   | 133.67                  | 2.21                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            |           |                        | 135,26                   | 135,45                  | 0.19                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            |           |                        | 138,72                   | 139.43                  | 0.71                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            |           |                        | 141.09                   | 143.18                  | 0.24<br>0.66            |                                       |                         |                                        |                                  | •                                       |                             |               |                                                     |       |
|            |           |                        | 143.50                   | 144.50                  | 1.00                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
|            |           |                        | Total coal in #1         | scam:                   | 9,71                    |                                       |                         |                                        |                                  |                                         |                             |               |                                                     |       |
| 3          |           |                        | Coal and rock:           |                         | 23 54                   |                                       |                         |                                        |                                  | •                                       |                             |               |                                                     |       |

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|-----------------|-----|----------------|------------------------|-------------------------|-------------------------|-------------------------|-----------------|----------------------------|-----------------|-------------------|------------------------|-------------------------|----------------------|-----------------------|----------------------|-----------------------------|-------------------|---------------------|--------------|------------------------------|------------------------------------|--------|
| DRILL-HOLE<br># |     | SEAM           | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>`( | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAI<br>Raw | L MOISTURE<br>Clean<br>(%) | AS<br>Raw<br>(? | SH<br>Clean<br>6) | VOLATIL<br>Rsw<br>· (1 | E MATTER<br>Clean<br>%) | FIXED (<br>Raw<br>(? | CARBON<br>Clean<br>%) | CALORII<br>Raw<br>(M | FIC VALUE<br>Clean<br>J/kg) | SULI<br>Raw<br>(1 | PHUR<br>Clean<br>%) | YIELD<br>(%) | SPEC<br>GRA<br>Raw<br>(g/cc) | CIFIC<br>VITY<br>Wshbity<br>(g/ce) | F.S.I. |
| T94R-46C        |     | ,<br>Bentonite |                        | 100.96                  | 101.44                  | 0.48                    |                 |                            |                 |                   |                        | ,                       |                      |                       |                      |                             |                   |                     |              | · · ·                        |                                    |        |
|                 | 1   | Mkr Sm         |                        | 133,51                  | 134.02                  | 0,51                    | 1,19            | 0,65                       | 32,51 ,         | 19,45             | 25.35                  | 28.10                   | 40,95                | 51.80                 | 22.37                | 27,83                       | 2.91              | 1.84                | 62,03        |                              |                                    |        |
|                 |     | ı              |                        | 165.78                  | 168.08                  | 2.30                    |                 | 0.53                       |                 | 13,60             |                        | 29,46                   |                      | 56.41                 | •                    | 29.96                       |                   | 1.38                | 6972         |                              |                                    |        |
|                 |     | 1 Prtg         |                        | 168,08                  | 168,28                  | 0.20                    | 1,40            |                            | 81.25           |                   |                        |                         |                      |                       |                      |                             | 0.17              | 1.20                |              |                              |                                    |        |
|                 | •   | l              |                        | 168.28                  | 168.75                  | 0.47                    | 0.84            |                            | 22.14           |                   |                        |                         |                      |                       |                      |                             | 1.61              |                     |              |                              |                                    |        |
|                 | 2-7 |                |                        |                         |                         | 2.97                    | 0,69            |                            | 27.46           |                   | 25,83                  |                         | 46.02                |                       | 23.89                |                             | 2.56              |                     |              |                              | •                                  | 40     |
|                 |     | i Prtg         |                        | 168.75                  | 169.22                  | 0,47                    |                 |                            |                 |                   |                        |                         |                      |                       |                      |                             | 2.00              |                     |              |                              |                                    | 4.0    |
|                 |     | 1              |                        | 169.22                  | 169,87                  | 0.65                    | 0,96            | 0,57                       | 19.65           | 10.69             | 29.92                  | 31.76                   | 49,47                | 56,98                 | 27.63                | 31.30                       | 1.89              | 1.09                | 76.20        |                              |                                    |        |
| •               |     | 1 Prtg         |                        | 169.87                  | 170.45                  | 0,58                    |                 |                            |                 |                   |                        |                         |                      |                       |                      |                             |                   |                     | 10,20        |                              |                                    |        |
|                 |     | 1              |                        | 170.45                  | 171,94                  | 1.49                    | 0,69            | 0.53                       | 45.15           | 17.28             | 22,90                  | 29.77                   | 31,26                | 52,42                 | 17.14                | 28,67                       | 1.09              | 0.84                | 34.90        |                              |                                    | ,      |
|                 |     | l Total        |                        |                         |                         | 6,16                    |                 |                            |                 |                   |                        |                         |                      |                       |                      |                             |                   |                     |              |                              |                                    |        |
|                 |     |                |                        |                         |                         | 4.91                    |                 |                            | •               |                   |                        |                         |                      |                       |                      |                             |                   |                     |              |                              |                                    |        |
|                 |     |                |                        |                         |                         |                         |                 |                            |                 |                   |                        |                         |                      |                       |                      |                             | •                 |                     | -            |                              |                                    |        |

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| DRILL-HOLE   | SEAM                                                       | EQM<br>MOISTR<br>(%) | Iret | P<br>(%) | CL<br>(%) | RAW<br>              | / SULFUR<br>         | FOHMS<br>Organic     | WASH<br><br>Pyrite | 50 50LFU<br>%<br>A.D<br>Sulfate | R FORMS      | 5402         | A1203 | 1102 | Fc203 | MINERAL<br>CoD | ANALYSIS<br>MgO<br>(%) | 0FASU<br>Ni20 | k20  | 205  |      | iUndet, | %1120 | ХC    | ULTIMATE<br>%H | A.D.<br>E ANALVSU<br>%N<br>(%) | 3     | %\$  | %0   | OXIDI<br>Init. Solt | AZING<br>t. Ifemi | FUSION AI<br><br>da. Fluid<br> | NALYSIS OF /<br>Init.<br>(Temp. C) | <br>- REDUCIN<br>Hemis, | -<br>3<br>Fluid |
|--------------|------------------------------------------------------------|----------------------|------|----------|-----------|----------------------|----------------------|----------------------|--------------------|---------------------------------|--------------|--------------|-------|------|-------|----------------|------------------------|---------------|------|------|------|---------|-------|-------|----------------|--------------------------------|-------|------|------|---------------------|-------------------|--------------------------------|------------------------------------|-------------------------|-----------------|
| 1-24C        | Bentonito<br>Mixr Sm<br>1<br>Prig<br>1Ls<br>1L Prig<br>1Lb |                      | 60   | <0.01    |           | 1.17<br>2.36<br>0.01 | 0.01<br>0.01<br>0.01 | 1,63<br>2,10<br>0,21 | 0.58<br>0.45       | <0.01<br><0.01                  | 1.15<br>0.59 | <b>54.18</b> | 33.02 | 2.15 | 7.05  | 1.18           | 0,22                   | 0,28          | 0.18 | 0.05 | 1,01 | 0,68    | 0.78  | 69.72 | 4.45           | 0.60                           | 16,80 | 1,68 | 5.97 |                     |                   |                                |                                    |                         |                 |
| 3-25<br>K-26 | N/C<br>N/C                                                 |                      |      |          |           |                      |                      |                      |                    |                                 |              |              |       |      |       |                |                        | *             |      |      |      |         |       |       |                |                                |       |      |      |                     |                   |                                |                                    |                         | r               |
| 4R-27        | ?<br>?<br>?<br>                                            |                      |      |          |           |                      |                      |                      |                    |                                 |              |              |       |      |       |                |                        |               |      |      | •    | .       |       |       |                |                                |       |      |      |                     |                   |                                |                                    |                         |                 |
| 94R-28       |                                                            |                      |      |          |           |                      |                      |                      |                    |                                 |              |              |       |      |       |                |                        |               |      |      |      |         |       |       |                |                                |       |      |      |                     |                   |                                |                                    |                         |                 |

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|                |           |                       |       | _        | -         | RAY          | V SULLEUR       | FORMS        | WASU         | ED SULFUI        | FORMS        | <u> </u> |       |      |       |                |                        | •       |      |      |      | I       |       |       |              | ٨D                   |        |      |      | I    |       |                  |                 | ISION ANA | LYSIS OF AS      | al ——— |                     |             |
|----------------|-----------|-----------------------|-------|----------|-----------|--------------|-----------------|--------------|--------------|------------------|--------------|----------|-------|------|-------|----------------|------------------------|---------|------|------|------|---------|-------|-------|--------------|----------------------|--------|------|------|------|-------|------------------|-----------------|-----------|------------------|--------|---------------------|-------------|
| RILL-HOLE<br># | SEAM      | EQM<br>MOIST'R<br>(%) | ILGI. | P<br>(%) | CL<br>(%) | Pyritie      | A.D.<br>Sulfate | Organic      | Pyritic      | %<br>Sulfate     | Organic      | 5102     | л1203 | τιο: | Fe2O3 | MINERAI<br>CLO | ANALYSIS<br>MgO<br>(%) | OF ASII | 120  | 1205 | 503  | %Undet. | %1120 | %C    | ULTI:<br>%II | MATE AN/<br>%N<br>(% | ALYSIS | .su  | %5   | *•   | toit. | ONIDIZIN<br>Soft | G<br>Hemis.<br> |           | Init.<br>emp. C) | 50ft.  | - REDUCIA<br>Hemis. | iG<br>Fluid |
| :-29           | 57        |                       |       |          |           |              |                 |              |              |                  |              |          |       |      | i     |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                | 47<br>3U7 | •                     |       | 0.09     | ,         | •            |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                | 3 Prtg?   |                       |       |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      | I       |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                | 207       |                       |       |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                | 27<br>?   |                       | •     |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                |           |                       |       |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      | •    |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
| R•29C          | 7<br>77   |                       |       |          |           | 1 77         | n 17            | 1 94         | 1.02         | 0.05             | 143          |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                | 6U7       |                       |       |          |           | 1.15         | 0,01            | 1.20         | 0.39         | 0.02             | 0.65         |          |       |      |       |                |                        |         |      |      |      |         |       |       | ,            |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                | 6L?       |                       |       |          |           | 0.22         | 0.01            | 0.28         |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                | 7<br>5    |                       |       |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                | 2         |                       |       |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                |           |                       |       |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         | •    | •    |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                | 7         |                       |       |          |           |              |                 |              | 0.09         | 0.01             | 0.55         |          |       |      | •     |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                | 7<br>4    |                       |       |          | 0.01      | 1.36<br>0.40 | 0.01<br>0.01    | 1.62<br>0.50 | 0.37<br>0.09 | < 0.01<br>< 0.01 | 1.02<br>0.51 |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                | 3U<br>V   |                       |       |          |           | 1.15         | 0.14            | 0.91         | 0.41         | 0.01             | 1.08         |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                | 7         |                       |       | -        |           |              |                 | 0.55         | 0.50         | 0.02             | 0.01         |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                | 7         |                       |       |          |           | 0.03         | 0.01            | 0.27         | 0.02         | < 0.01`          | 0.32         |          |       |      |       |                |                        |         |      |      | •    |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
| IR-30          | N/C       |                       |       |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
| R-31           |           |                       |       |          | •         |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                |           |                       |       |          |           |              |                 | •            |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                |           |                       |       |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     | •           |
| 4R-32          |           |                       |       |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       | •     |              | •                    |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                |           |                       | •     |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       | • •   |              |                      |        |      |      |      |       |                  |                 |           |                  | •      |                     |             |
|                |           |                       |       |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         | •     |       |              | •                    |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                |           |                       |       |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        | •                   |             |
| 4R-34C         |           |                       |       |          |           | 0.56         | 0.05            | 0.67         | 0.40         | < 0,01           | 0.90         |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                |           |                       |       | 0.07     | 0.02      | 1.72<br>0.75 | 0.09<br>0.01    | 1.49<br>0.91 | 0.59         | 0.01<br>0.02     | 1.23<br>0.84 | 48.92    | 28.65 | 1.60 | 7.43  | 7.05           | 0.60                   | 0.46    | 0.10 | 1 18 | 3.01 | 101     | 0.05  | 76.76 |              | <b>77</b> 0          | 02 10  | n 77 | 1.17 | 6 60 |       |                  |                 |           |                  |        |                     |             |
|                |           |                       |       |          |           | 0.10         | 0.01            | 0.42         |              |                  |              |          |       |      |       |                | -,20                   |         | 4.13 |      | 5.01 | 5.21    | 0,20  | :0,20 | ,,<br>,,     | ~, U.                |        | .12  | 1.17 | 2,08 |       |                  |                 |           |                  |        |                     |             |
| C              |           | •                     |       |          |           | 0.93         | 0.02            | 1.04         | 0.14         | 0.01             | 0.73         |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        | •                   |             |
| '              |           |                       |       |          |           | 0.06<br>0.11 | 0.01<br>0.08    | 1.07<br>0.01 |              |                  |              |          |       |      |       |                |                        | -       |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |
|                |           |                       |       |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 | ٠.        |                  |        |                     |             |
|                |           |                       |       |          |           |              |                 |              |              |                  |              |          |       |      |       |                |                        |         |      |      |      |         |       |       |              |                      |        |      |      |      |       |                  |                 |           |                  |        |                     |             |

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|                 |                  |                       |      |          |            |              |                         |              |                         |          |                        |                   |            |            |       |     |                  |                        |                     |      |      |     |         |       |                  |                                |             |    |      |          |                   |     |                                | •                            |              |          |           |   |
|-----------------|------------------|-----------------------|------|----------|------------|--------------|-------------------------|--------------|-------------------------|----------|------------------------|-------------------|------------|------------|-------|-----|------------------|------------------------|---------------------|------|------|-----|---------|-------|------------------|--------------------------------|-------------|----|------|----------|-------------------|-----|--------------------------------|------------------------------|--------------|----------|-----------|---|
| AUTROWALNOLD    |                  |                       |      |          |            |              |                         |              |                         |          |                        |                   |            |            |       |     | •                |                        |                     |      |      |     |         |       |                  |                                |             |    |      |          |                   |     |                                |                              |              |          |           | 1 |
|                 |                  |                       |      |          |            |              |                         |              | •                       |          |                        |                   |            |            |       |     |                  |                        |                     |      |      |     |         |       |                  |                                |             |    |      |          |                   |     |                                |                              | •            |          |           |   |
| DRILLAIOLE<br>N | SEAM             | EQM<br>MOIST'R<br>(%) | IFET | P<br>(%) | CL.<br>(%) | RAV<br>      | 501.FUR<br>%<br>Sulfate | Organie      | → W/<br>-<br>-<br>Fyris | ASIIED I | SULFUR FOI<br>%<br>A.D | MS<br>\$10<br>mic | <br>2 y412 | <br>DJ 710 | 01 Fe | 203 | MINERAL A<br>CaO | MaL151<br>MgQ<br>(%) - | S OF A511 -<br>N±20 | K20_ | P205 | £03 | %Undet. | *1120 | <br>VLTIM<br>%II | A.D.<br>ATE ANALA<br>%N<br>(%) | 515<br>%ASH | %5 | - *0 | lnit,    | - OXIDIZI<br>Soft | ING | FUSION A<br>Fluid <sup>®</sup> | NALYSIS (<br>Li<br>(Temp. C) | 0F ASI 1<br> | REDUCING | <br>Fiuld |   |
| ·               |                  |                       |      |          |            |              |                         |              | 0.0                     | 6        | <0.01 0.4              | !<br>,            |            |            |       |     |                  |                        |                     |      |      |     |         | !     |                  |                                |             |    |      | <u> </u> |                   |     |                                |                              |              |          | <u> </u>  |   |
|                 |                  |                       | r    |          |            | 0.35         | 0.01                    | 0.34         |                         |          |                        |                   |            |            |       |     |                  |                        |                     |      |      |     |         |       |                  |                                |             |    |      |          |                   |     |                                |                              |              |          |           |   |
|                 |                  |                       | 121  | <0.01    | 0.05       | 0,76<br>0.08 | 0.03<br>0.01            | 0.77<br>0.29 | 0.1<br>0 0              | 12 -     | <0.01 0.5<br><0.01 0.3 | 5<br>5            |            |            |       |     |                  |                        |                     |      |      |     |         |       |                  |                                |             |    |      |          |                   |     |                                |                              | ·            |          |           |   |
| '94R-36         | Bentonite<br>Mar | :                     |      |          |            |              |                         |              |                         |          |                        |                   |            |            |       |     |                  |                        |                     |      |      |     |         |       |                  |                                |             |    |      |          |                   |     |                                |                              |              |          |           |   |
|                 | I<br>IL          |                       |      |          |            |              |                         |              |                         |          |                        |                   |            |            |       |     |                  |                        |                     |      |      |     |         |       |                  |                                |             |    |      |          |                   |     |                                |                              |              |          |           |   |
|                 |                  |                       |      |          |            |              |                         | •            |                         |          |                        |                   |            |            |       |     |                  |                        |                     |      |      |     |         |       |                  |                                |             |    | •    |          |                   |     |                                |                              |              |          |           |   |
|                 |                  |                       |      |          |            |              |                         |              |                         |          |                        |                   |            |            |       |     |                  |                        |                     |      |      |     |         |       |                  |                                |             |    |      |          |                   |     |                                |                              |              |          |           |   |
|                 |                  |                       |      |          |            |              |                         |              |                         |          |                        |                   |            |            |       |     |                  |                        |                     |      |      |     |         |       |                  |                                |             |    | ·    |          |                   |     |                                |                              |              |          |           |   |
|                 |                  |                       |      |          |            |              |                         |              |                         |          |                        |                   |            |            |       |     |                  |                        |                     |      |      |     |         |       |                  |                                |             |    |      |          | r                 |     |                                |                              |              |          |           |   |
|                 |                  |                       |      |          |            |              |                         |              |                         |          |                        |                   |            |            |       |     |                  |                        |                     |      |      |     |         |       |                  |                                |             |    |      |          |                   |     |                                |                              |              |          |           |   |
|                 |                  |                       |      |          |            | •            |                         |              |                         |          |                        |                   |            |            |       |     |                  |                        |                     |      |      |     |         |       |                  |                                |             |    |      |          |                   |     | •                              |                              |              |          |           |   |

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| NIT-HOLE<br>N | 8EAN | EQM<br>Moistrr<br>(%) | HGI. | P<br>(%) | CL.<br>(%) | RAW<br><br>Pyritie | SULFUR<br> | FORM9<br>Organic | WASH<br><br>Pyride | ED SULFA<br>%<br>Sulfate | Organic | \$ <b>102</b> | <br>A1303 | T103 | Fr2O3 | NINERAL,<br>C.O | analysis (<br>Mgo<br>(%) | 0FASII —<br>№20' | k10  | 205 1 | 503 9 | 4Undet. | <br>%1120 | %C    | ULTIMATI<br>%H | A.D.<br>E ANALYSI<br>%N<br>— (%) —— | 5     | <b>%</b> S | %0   | (<br> a L | XIDIZING<br>Soft. | FU<br><br>Ile=ls,<br> | SION ANAL<br>Field<br>(Ter | 1513 OF ASH<br>Init<br>ap. C) | Soft. | REDUCING<br>Hemis | Fluid |
|---------------|------|-----------------------|------|----------|------------|--------------------|------------|------------------|--------------------|--------------------------|---------|---------------|-----------|------|-------|-----------------|--------------------------|------------------|------|-------|-------|---------|-----------|-------|----------------|-------------------------------------|-------|------------|------|-----------|-------------------|-----------------------|----------------------------|-------------------------------|-------|-------------------|-------|
|               |      |                       |      | 0.12     |            | 1.49               | 0.02       | 1.44             | 0.81               | 0.01                     | 1.02    |               |           |      |       |                 |                          |                  |      |       |       |         |           |       |                |                                     |       |            |      |           |                   |                       |                            |                               |       |                   |       |
|               |      |                       |      | 0.06     |            |                    |            |                  | 0.38               | < 0.01                   | 1.00    |               |           |      |       |                 |                          |                  |      |       | •     |         |           |       |                |                                     |       |            |      |           |                   | e                     |                            |                               |       |                   |       |
|               |      |                       | 65   |          | 0.06       | 1.45               | 0.01       | 1.10             |                    |                          |         | 55.06         | 33.21     | 1,96 | 6.57  | 1.33            | 0,18                     | 0.23             | 0.20 | 0.40  | 0.41  | 0.45    | 0,58      | 72.66 | 4.51           | 0.63                                | 13.62 | 1.37       | 6,63 | 1452+     | 1452+             | 1452+                 | 1452+                      | 5 1452+                       | 1452+ | 1452+             | 1452+ |
|               |      |                       |      | <0.01    | •          | 0.96               | 0.01       | 0.94             | 0.25               | 0.01                     | 0.83    |               |           |      |       |                 |                          |                  |      |       |       |         |           |       |                |                                     |       |            |      |           |                   |                       |                            |                               |       |                   |       |

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File name:T94SMRYT.XLS

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Drill-hole Seam Intersections

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|                     | Seam:              | ×            | 142          | / Sec.            |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
|---------------------|--------------------|--------------|--------------|-------------------|------------------|----------------|------------|----------|--------|------------|--------|----------|---------------|------|--------|--------|----------------|--------------|----------------|---------------|
| Drill-hole ; J      | ! 1Lc              | lLc prtg     | 1Lb          | L prtg            | <u>1La</u>       | ibrdn          | 1          | 1/1U ptg | 1U     | ibdn       | ь      | b/c ibdn | 1U/c ptg      | С    | c-prtg | c-upr  | ibrdn          | d            | ibrda          | ¢             |
| T03D 61             | ر .                |              |              | 1                 |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
| 195R-54<br>T03P-20  |                    |              |              | , ``              |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
| T03R-15             |                    |              |              | 10. p             |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
| T93R-16             |                    |              |              | •                 |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
| T93D-50             |                    |              |              | ,                 |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
| T93D-45             |                    |              | 1.37         | 0.19              | . 0.49           | 4.05           | *0.53      |          |        |            |        |          |               |      |        |        |                |              |                |               |
| T94R-12             |                    |              | 0.54         |                   |                  |                |            |          | 2.07   |            |        |          |               |      |        |        |                |              |                |               |
| T94R-10C            |                    |              | 0.44         | 1.48              | 1.09             | 2.46           | 4.11       | 1.28     | 2.51   |            |        |          | 14.79         | 1.83 |        |        |                |              |                |               |
| 192R-40C            |                    |              | 0.05         | 2.02              | 0,43             | 0.22           | 4,56       | 2,23     | 0,60   |            |        |          |               |      |        |        |                |              |                |               |
| T93R-17             |                    |              | 1.10         | 0.18              | 0.66             | 2,98           | 4.24       | 1.25     | 2.46   |            |        |          |               |      |        |        |                |              |                |               |
| T94R-04C            | 0.25               | 4.35         | 0.20         | 0.21              | 1 0.48           | 1.99           | 3.81       | 0.56     | 1.85   | 4.19       | 0.36   | 7.02     | 11.57         | 1.94 | 2.65   | 0.29   |                |              |                |               |
| T92R-39C            |                    |              |              | <u></u>           | 0.28             | 0.45           | 4.35       | 2.47     | 1.78   |            |        |          |               |      |        |        |                |              |                |               |
| T81R-108            |                    |              |              | ક્રમ.             |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
| T94R-08             |                    |              |              | 343-34× 0         |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
| T94R-06             | ' ter thin coals d | eveloped wit | hin erosion: | al channel ???    | feature (n       | ormal coal see | quence mis | sing)    |        |            |        |          |               |      |        |        |                |              |                |               |
| T93R-09             | 1                  |              |              | 1 ( · · · ·       | r                |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
| T94R-05             |                    |              |              |                   |                  | *****          |            |          |        |            |        |          |               |      | ****** |        | *****          |              |                |               |
| T93R-12             | 0.65               | 1.50         | 0.73         | 0.45              | 0.52             | 4.71           | 5.41       | 0.03     | 2,54   | 7,26       | 0.35   | 11.90    | 19.51         | 2.03 | 2.52   | 0.74   |                |              |                |               |
| T94R-07             | 0.57               | 4.59         | 0.57         | 1.34 '            | 1.13             | 4.96           | 4.08       | 0.00     | 1.82   | 6,36       | 0.36   | 9.13     | 15.85         | 1.24 |        |        |                |              |                |               |
| T93R-06             | 0.43               | 7,28         | 0.40         | 1.14              | 0.50             | 0.36           | 3.17       | 1.02     | 1.87   | 2.18       | 0.28   | 6.67     | 9.13          | 1.60 | 1.49   | 0.21   | 3.20           | 0.54         |                |               |
| - T93R-05           |                    |              | 0.55         | 0.43              | 0.34             | 0.98           | 3.71       | 0.02     | 1.98   | 4.17       | 0.38   | 7.90     | 12.45         | 1.50 | . 0.44 | 0.23   | 2.49           | 0.51         | 2.02           | 0.46          |
| T93R-07C            |                    |              | 1.35         | 0.10              | 0.33             | 4.05           | 4.41       | 0.04     | 2.12   | 7.15       | 0,40   | 7.50     | 15.05         | 0,98 |        |        |                |              |                |               |
| T93R-02             |                    |              | 0,73         | 1 20              | ·                |                | 3.44       | 0.39     | 1.69   |            |        |          |               | - ·  |        |        |                |              |                |               |
| T92R-43             |                    |              |              | , C               | 0.44             | 2,18           | 3.73       | 0.03     | 2.04   | 3.67       | 0.43   | 3.73     | 8.83          | 0.47 |        |        | 2.98           | 0,51         | 2,88           | 0.41          |
| 193D-53             |                    |              | 1.04         | 000               | 0.37             | 4.39           | 4.31       | 0.00     | 2.40   | 4.71       | 0.01   | 2.01     | 8.01          | 1.70 |        |        |                |              |                |               |
| 195K-03             | 0.20               | 1 22         | 1.04         | 0.92              | 0.42             | 1.20           | 2.38       | 0.29     | 1.08   | 4.71       | 0.51   | 3.81     | 8.83<br>10.60 | 1.07 |        |        |                |              | `              |               |
| 194K-03<br>T03D 11C | 0.39               | 1.55         | 0.75         | 0.57              | 0.55             | 0.99           | 2,05       | 0.00     | . 1.09 |            |        |          | 12.39         | 0.09 | 0.50   | 0.71   |                |              |                |               |
| T03D_47             |                    |              | 0.07         | 0.07              | 0.00             | 2.33           | 5.07       | 0.05     | 2.40   |            |        |          | 10.52         | 2.20 | 0.39   | 0.71   |                |              |                |               |
| T94R-01             | 0.40               | 0.91         | 0 57         | 4 03 ***          | 0.27             | 036            | 2 33       | 3 12     | 2.05   |            |        | ******   | *****         |      |        | ****** | ****           | *****        | ******         |               |
| T93R-08C            | 0.15               | 0.21         | 0.59         | 1.67              | 0.75             | 1.72           | *1.01      | 0.80     | 2.06   |            |        |          | 3.93          | 1.50 |        |        |                |              |                |               |
| T94R-02             | ******             | *****        | *****        | 2 5 24            |                  |                |            | *****    |        | *****      | ****** |          |               |      |        |        |                | ***********  |                | ************* |
| T93R-14             |                    |              |              | ` <u>+</u>        |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
| T93R-10             |                    |              |              | 1 ay              |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
| T93R-04             |                    |              |              | · ·               |                  |                |            |          |        |            |        | •        |               |      |        |        |                |              |                | ,             |
| T92R-42             |                    | •            |              | 14                |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
| T93R-51             |                    |              |              | •_                |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
| T93R-18             |                    |              |              | · · · ·           |                  |                |            |          |        | •          |        |          |               |      |        | •      |                |              |                |               |
| T93R-13             |                    |              |              | 1                 |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
| T93R-19             |                    |              |              | , 1               |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
| T93R-49             |                    |              |              | <i>k</i>          | ŧ                |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
|                     | 1                  |              |              | *                 |                  |                |            |          |        |            |        | •        |               |      |        |        |                |              |                |               |
| ' : 'Averages:      | 0.46               | 3.33         | : 0.69       | 1.01              | · 2 <b>0.5</b> 4 | 2.26           | 3.87       | 0.75     | 1.98   | 4.96       | 0.36   | 7.21     | 12.08         | 1.46 | 1.54   | 0.44   | 2.89           | 0.52         | 2.45           | 0.44          |
|                     | 1                  |              |              |                   |                  |                |            |          |        |            |        |          |               |      |        |        |                |              |                |               |
|                     | 1                  |              |              | •                 |                  |                |            |          |        |            |        |          |               |      |        | 4      |                |              |                |               |
| T82R-203            | 1                  |              |              | , <b>1</b>        |                  |                | 3.30       | _        |        |            |        |          |               |      |        |        |                |              |                |               |
| T82R-205            |                    |              |              | 114 <u>5</u> - 15 | •                |                | 1.03       | 0.12     | 2.05   |            |        |          |               |      |        |        |                |              |                |               |
| T82R-206            |                    |              |              |                   | •                |                | 2.01       | 0.11     | 1.69   |            |        |          |               |      |        | wh     | ere: * = parti | al seam (not | used for avera | ges)          |
| T82R-207            |                    |              |              | بأحسف إ           |                  |                | 1.75       | 0.17     | 1.78   |            |        |          |               |      |        |        | •              |              |                |               |
|                     | 1                  |              |              | 4                 |                  |                |            | 0.10     | 1.07   |            |        |          |               |      |        |        |                |              |                |               |
| Cabinet C           | reek average:      | •            | ·            | · · · ·           | i. •             |                | 2.02       | 0.13     | 1.84   |            |        |          |               |      |        |        |                |              |                |               |
|                     |                    |              |              |                   |                  |                |            |          | F      | age 1 of 1 |        |          |               |      |        |        |                |              |                |               |

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# TELKWA PROJECT - COAL QUALITY SUMMARY

# TENAS CREEK

Composited seams - Raw and Washed results, reported on an A.D. basis

| DRILL-HOLE<br># | SEAM    | SEAM<br>REC'VRY<br>(%) | DRILLED SI<br>From<br>(1 | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL MOISTURE<br>Raw Clean<br>(%) | ASH<br>Raw Clean<br>(%) | VOLATILE MATTER<br>Raw Cican<br>(%) | FIXED CARBON<br>Raw Clean<br>(%) | CALORIFIC VALUE<br>Raw Clean<br>(MJ/kg) | SULPHUR<br>Raw Clean<br>(%) | YIELD<br>(%) | SPECIFIC<br>GRAVITY<br>Raw Wshbity<br>(g/cc) (g/cc) | F.S.I. |
|-----------------|---------|------------------------|--------------------------|-------------------------|-------------------------|---------------------------------------|-------------------------|-------------------------------------|----------------------------------|-----------------------------------------|-----------------------------|--------------|-----------------------------------------------------|--------|
| T81R-108        | N/C     |                        |                          |                         |                         | x                                     |                         |                                     |                                  | •                                       |                             | • •          |                                                     |        |
| T82R-203        |         |                        | 9.46                     | 9.92                    | 0.46                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |        |
|                 |         |                        | 11.90                    | 12,60                   | 0,70                    |                                       |                         | _                                   |                                  |                                         |                             |              |                                                     |        |
|                 |         |                        | 12.85                    | 13,68                   | 0,83                    |                                       |                         | · · ·                               |                                  |                                         | •                           |              |                                                     |        |
|                 | 1       |                        | 75.50                    | 78,80                   | 3,30                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |        |
| T82R-205        | IU      |                        | 136,33                   | 138.38                  | 2,05                    |                                       |                         |                                     | •                                |                                         |                             |              |                                                     |        |
|                 | I Pring |                        | 138,38                   | 138,50                  | 0,12                    |                                       |                         |                                     |                                  | _                                       |                             |              |                                                     |        |
|                 | I       |                        | 138,50                   | 139.53                  | 1.03                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |        |
|                 | IL.     |                        | 144.18                   | 144.81                  | 0.63                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |        |
|                 |         |                        |                          |                         |                         |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |        |
| T82R-206        | ?       |                        | 13,95                    | 14.25                   | 0,30                    |                                       |                         |                                     | •                                |                                         |                             |              |                                                     |        |
|                 | ?       |                        | 24.41                    | 25,09                   | 0,68                    |                                       |                         |                                     |                                  |                                         | *                           |              |                                                     |        |
|                 | ?       |                        | 26.72                    | 27.96                   | 1.24                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |        |
|                 | , 7     |                        | 51.58                    | 52.77                   | 1.19                    |                                       | •                       | •                                   |                                  |                                         |                             |              |                                                     |        |
|                 | ?       |                        | 54.83                    | 55.75                   | 0.92                    |                                       |                         |                                     |                                  |                                         | ×                           |              |                                                     |        |
|                 | ?       |                        | 76.37                    | 77.24                   | 0.87                    |                                       |                         |                                     |                                  |                                         |                             |              | ,                                                   |        |
|                 | IU      |                        | 189,90                   | 1 <b>91,5</b> 9         | 1.69                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |        |
|                 | 1 Prtng |                        | 191.59                   | 191.70                  | 0.11                    | ł                                     |                         |                                     |                                  |                                         |                             |              |                                                     |        |
|                 | I       |                        | 191.70                   | 193.71                  | 2.01                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |        |
|                 |         |                        |                          |                         | 3.81                    |                                       |                         |                                     | •                                |                                         |                             | ,            |                                                     | ٠      |
| T82R-207        | IU      |                        | 138.08                   | 139.86                  | 1,78                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |        |
|                 | Í Prtng |                        | 139.86                   | 140,03                  | 0.17                    |                                       |                         | •                                   |                                  |                                         |                             |              |                                                     |        |
|                 | I       |                        | 140.03                   | 141.78                  | 1.75                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |        |
|                 | ,       |                        |                          |                         | 3.70                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |        |
|                 |         |                        |                          |                         | •                       |                                       |                         |                                     |                                  |                                         |                             |              | -                                                   |        |

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| DRILL-HOLE<br>∦ | SEAM         | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From | EAM INTRVL<br>To<br>(m) | SEAM<br>THICKN'S<br>(m) | RESIDUAI<br>Raw | Clean | AS<br>• Raw<br>(? | SII<br>Clean<br>%) | VOLATILI<br>Raw<br>(?                 | E MATTER<br>Clean<br>4) | FIXED (<br>Raw<br>(4 | CARBON<br>Clean<br>%) | CALORIJ<br>Raw<br>(M | IC VALUE<br>Clean<br>I/kg) | SULI<br>Ravy<br>(' | PHUR<br>Cican<br>%) | YIELD<br>(%) | SPEC<br>GRA<br>Raw<br>(g/cc) | CIFIC<br>VITY<br>Wahblty<br>(g/cc) | F.S.I. |
|-----------------|--------------|------------------------|-------------------|-------------------------|-------------------------|-----------------|-------|-------------------|--------------------|---------------------------------------|-------------------------|----------------------|-----------------------|----------------------|----------------------------|--------------------|---------------------|--------------|------------------------------|------------------------------------|--------|
| T92R-39C        | 10           |                        | 2.47              | 4.21                    | 1.74                    |                 |       |                   |                    | · · · · · · · · · · · · · · · · · · · |                         |                      |                       |                      |                            |                    |                     |              |                              |                                    |        |
|                 | ' Prtng      |                        | 4.21              | 6.68                    | 2,47                    |                 |       |                   |                    |                                       |                         |                      |                       |                      |                            |                    |                     |              |                              |                                    |        |
|                 | 1            | 93                     | 6.68              | 11.03                   | 4.35                    | 1.17            | 0,76  | 15.84             | 9.61               | ,<br>24.04                            | 24,18                   | 58.95                | 65,45                 | 28.62                | 30.71                      | 0.62               | 0.61                | 82.79        | 1.43                         |                                    | 1.0    |
|                 |              |                        |                   | metres; coal only       | y 6.09                  |                 |       |                   |                    |                                       |                         |                      |                       |                      |                            |                    |                     |              |                              |                                    |        |
|                 |              |                        | met               | res; coal and rock      | x 8,56                  |                 | •     |                   |                    |                                       |                         |                      |                       |                      |                            |                    |                     |              |                              |                                    |        |
|                 | ibdn         |                        | 11.03             | 11.48                   | 0.45                    | 0,70            |       | 62.51             |                    |                                       |                         |                      |                       |                      |                            | 0.68               |                     |              | 2.05                         |                                    |        |
|                 | iLa          | 79                     | 11.48             | 11.76                   | 0.28                    | 0.97            |       | 37.13             |                    |                                       |                         |                      |                       |                      |                            | 1.95               |                     |              | 1,66                         |                                    |        |
|                 |              |                        |                   |                         |                         |                 |       |                   |                    |                                       |                         |                      |                       |                      |                            |                    |                     |              |                              |                                    |        |
| T92R-40C        | 1 <b>U</b> ? | N/A                    | 22.79             | 23,39                   | 0.60                    |                 |       |                   |                    |                                       |                         |                      |                       |                      |                            |                    |                     |              |                              |                                    |        |
|                 | 1 Pring      |                        | 23.39             | 25.62                   | 2.23                    | 0.41            |       | 89.97             |                    |                                       |                         |                      |                       |                      |                            | 0.07               |                     |              | 2,74                         |                                    |        |
|                 | 1            |                        | 25.62             | 30.18                   | 4.56                    | 0.73            | 0,46  | 15.33             | 9.19               | 24.21                                 | 27.11                   | 59.73                | 63.24                 | 29.07                | 31.26                      | 0.82               | 0,56                | 86,64        | 1,43                         |                                    |        |
|                 |              |                        |                   | metres; coal only       | y 5.16                  |                 |       |                   |                    |                                       |                         | •                    |                       |                      |                            |                    |                     |              |                              |                                    |        |
|                 |              |                        | men               | res; coal and foci      | ¢ 7.39                  |                 |       |                   |                    |                                       | •                       |                      |                       |                      |                            |                    |                     |              |                              |                                    |        |
|                 | ibdn         |                        | 30.18             | 30.40                   | 0.22                    | 0.97            |       | 78.25             |                    |                                       |                         |                      |                       |                      |                            | 0,15               |                     |              | 2.39                         |                                    |        |
|                 | 1La          | N/A                    | 30.40             | 30.83                   | 0.43                    | 0.90            | 0.61  | 34,03             | 17.91              |                                       | 27.35                   |                      | 54.13                 |                      | 28,24                      | 0.48               | 0.56                | 53,69        | 1.62                         |                                    |        |
|                 | 1L Pring     |                        | 30.83             | 32.85                   | 2.02                    | 0,70            |       | 74,38             |                    |                                       |                         |                      |                       |                      |                            | 0,08               |                     |              | 2.30                         |                                    |        |
|                 | 1Lb          |                        | 32.85             | 32.90                   | 0.05                    |                 |       |                   |                    |                                       |                         |                      |                       |                      | ,                          |                    |                     |              |                              |                                    |        |
| T92R-42         |              | No Coal                |                   |                         |                         |                 |       |                   |                    |                                       |                         |                      |                       | ·                    |                            |                    |                     |              |                              |                                    |        |
| T92R-43         | e            | N/A                    | 26.81             | 27.22                   | 0.41                    |                 |       |                   |                    |                                       |                         |                      |                       |                      |                            |                    |                     |              |                              |                                    |        |
|                 | d            | N/A                    | 30,10             | 30.61                   | 0.51                    |                 |       |                   |                    |                                       |                         |                      |                       |                      |                            |                    |                     |              |                              |                                    |        |
|                 | c            | N/A                    | 33,59             | 34.06                   | 0.47                    |                 |       |                   |                    |                                       |                         |                      |                       | ,                    |                            |                    |                     |              |                              |                                    |        |
|                 | ь            | N/A                    | 38.79             | . 39.22                 | 0.43                    |                 |       |                   |                    |                                       |                         |                      |                       |                      |                            |                    |                     |              |                              |                                    |        |
|                 | 1U           | N/A                    | 42.89             | 44.93                   | 2.04                    |                 |       |                   |                    |                                       |                         |                      |                       |                      |                            |                    |                     |              |                              |                                    |        |
|                 | Pring        |                        | 44.93             | 44.96                   | 0.03                    |                 |       |                   |                    |                                       |                         |                      |                       |                      |                            |                    |                     |              |                              |                                    |        |
|                 | 1            |                        | 44,96             | 48.69                   | 3,73                    |                 |       |                   |                    |                                       |                         |                      |                       |                      |                            |                    |                     |              |                              |                                    |        |
|                 |              |                        |                   | metres; coal only       | y 5.77                  |                 |       |                   |                    |                                       |                         |                      |                       |                      |                            |                    | -                   |              |                              |                                    |        |
| ę               |              |                        | metres; coal as   | nd rock (minable        | ) 5.80                  |                 |       |                   |                    |                                       |                         |                      |                       |                      |                            |                    |                     | •            |                              |                                    |        |
|                 | ibdn         |                        | 48.69             | 50.87                   | 2.18                    |                 |       |                   |                    |                                       |                         |                      |                       |                      | •                          |                    |                     |              |                              |                                    |        |

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| DRILL-HOLE     | SEAM       | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>( | EAM INTRVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL MOISTURE<br>Raw Clean<br>(%) | ASH<br>Raw Clean<br>(%) | VOLATILE MATTER<br>Raw Clean<br>(%) | FIXED CARBON<br>Raw Clean<br>(%) | CALORIFIC VALUE<br>Raw Clean<br>(MJ/kg) | SULPHUR<br>Raw Clean<br>(%) | YIELD<br>(%) | SPECIFIC<br>GRAVITY<br>Raw Wshblty<br>(y/cc) (y/cc) |
|----------------|------------|------------------------|------------------------|------------------------|-------------------------|---------------------------------------|-------------------------|-------------------------------------|----------------------------------|-----------------------------------------|-----------------------------|--------------|-----------------------------------------------------|
|                | iLa        | - N/A                  | 50.87                  | 51.31                  | 0.44                    |                                       |                         |                                     |                                  | _                                       |                             |              |                                                     |
| 1              | 1L d U/L   | N/A                    | 61.86                  | 63.20                  | 1.34                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
|                | 1L c       | N/A                    | 67.57                  | 67.98                  | 0.41                    |                                       | •                       |                                     |                                  |                                         |                             |              |                                                     |
| T93R-02        | រប         |                        | 1.66                   | 3.35                   | 1.69                    | ,                                     |                         |                                     |                                  | •                                       |                             |              |                                                     |
|                | 1 Pring    |                        | 3,35                   | 3.74                   | 0.39                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
|                | . 1        |                        | 3,74                   | 7.18                   | 3.44                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
|                |            |                        |                        | metres; coal only      | y 5.13                  | 4                                     |                         |                                     |                                  |                                         |                             |              |                                                     |
|                |            |                        | metr                   | res; coal and roc      | s 5.52                  |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
|                | 1Lb        |                        | 8.55                   | 9.28                   | 0.73                    |                                       |                         | ·                                   |                                  |                                         | •                           |              |                                                     |
|                |            |                        | 14.62                  | 14.84                  | 0.22                    |                                       |                         |                                     |                                  |                                         | •                           |              |                                                     |
|                |            |                        | 15.59                  | 15.72                  | 0.13                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
|                |            |                        |                        |                        |                         |                                       |                         |                                     | •                                |                                         |                             |              |                                                     |
| T93R-02 con't. | 1Ld upr    |                        | 20.40                  | 21.01                  | 0.61                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
|                | Prtng      |                        | 21.01                  | 21.39                  | 0.38                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
|                | iLd iwr    |                        | 21.39                  | 21.98                  | 0.59                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
| · .            | lLe        |                        | 28.84                  | 29.25                  | 0.41                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
| T93R-03        | c          |                        | 67.07                  | 67.41                  | 0 34                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
|                | c pring    |                        | 67.41                  | 67.73                  | 0.32                    |                                       |                         | · · ·                               |                                  | •                                       |                             |              |                                                     |
|                | c          |                        | 67,73                  | 68.14                  | 0.41                    |                                       | •                       |                                     |                                  |                                         |                             |              |                                                     |
|                | (c)        |                        | 67.07                  | 68.14                  | 1.07                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
|                |            |                        |                        |                        |                         | τ                                     |                         |                                     |                                  |                                         |                             |              |                                                     |
|                | b          |                        | 71.95                  | 72.26                  | 0.31                    |                                       |                         | •                                   |                                  |                                         |                             |              |                                                     |
|                | a          |                        | /5./1                  | /0.04                  | 0.33                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
|                | 1 <b>U</b> |                        | 76.97                  | 78.65                  | 1.68                    |                                       |                         |                                     | •                                |                                         |                             |              |                                                     |
| •              | 1 Pring    |                        | 78.65                  | 78.94                  | 0,29                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
|                | 1          |                        | 78.94                  | 81.52                  | 2.58                    |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
|                |            |                        |                        | metres; coal only      | y 4.26                  |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |
|                |            |                        | met                    | res; coal and roc      | k 4,55                  |                                       |                         |                                     |                                  |                                         |                             |              | •                                                   |

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| ILa<br>IL Pring<br>ILb<br>ILd upp<br>Pring<br>ILd lwr<br>T93R-04 | N/C | 82.78<br>83.20<br>84.12<br>91.79<br>92.77<br>93.60 | 83.20<br>84.12<br>85.16<br>92.77<br>93.60<br>94.47 | 0.42<br>0.92<br>1.04<br>0.98<br>0.83<br>0.87 | · · · · · · · · · · · · · · · · · · · | · · · | • • • • • • • • • • • • • • • • • • • |   |   |   |   |  |
|------------------------------------------------------------------|-----|----------------------------------------------------|----------------------------------------------------|----------------------------------------------|---------------------------------------|-------|---------------------------------------|---|---|---|---|--|
| ILa<br>IL Pring<br>ILb<br>ILd upr<br>Pring<br>ILd lwr<br>T93R-04 | N/C | 82.78<br>83.20<br>84.12<br>91.79<br>92.77<br>93.60 | 83.20<br>84.12<br>85.16<br>92.77<br>93.60<br>94.47 | 0.42<br>0.92<br>1.04<br>0.98<br>0.83<br>0.87 |                                       |       |                                       |   |   |   |   |  |
| iLa<br>iL Pring<br>iLd upr<br>Pring<br>iLd lwr<br>T93R-04        | N/C | 82.78<br>83.20<br>84.12<br>91.79<br>92.77<br>93.60 | 83.20<br>84.12<br>85.16<br>92.77<br>93.60<br>94.47 | 0.42<br>0.92<br>1.04<br>0.98<br>0.83<br>0.87 |                                       |       |                                       | • |   |   |   |  |
| iL Pring<br>iLb<br>iLd upr<br>Pring<br>iLd lwr<br>T93R-04        | N/C | 83.20<br>84.12<br>91.79<br>92.77<br>93.60          | 84.12<br>85.16<br>92.77<br>93.60<br>94.47          | 0.92<br>1.04<br>0.98<br>0.83<br>0.87         |                                       |       |                                       | • |   |   |   |  |
| ILb<br>ILd upr<br>Pring<br>ILd lwr<br>T93R-04                    | N/C | 84.12<br>91.79<br>92.77<br>93.60                   | 85.16<br>92.77<br>93.60 ·<br>94.47                 | 1.04<br>0.98<br>0.83<br>0.87                 |                                       |       |                                       | ٠ |   |   |   |  |
| 1Ld upr<br>Pring<br>1Ld lwr<br>T93R-04                           | N/C | 91.79<br>92.77<br>93.60                            | 92.77<br>93.60 ·<br>94.47                          | 0.98<br>0.83<br>0.87                         | •<br>•                                |       |                                       |   |   |   |   |  |
| Pring<br>ILd lwr<br>T93R-04                                      | N/C | 92.77<br>93.60                                     | 93.60 ·<br>94.47                                   | 0,83                                         | •                                     |       |                                       |   |   |   |   |  |
| 1Ld lwr<br>T93R-04                                               | N/C | 93.60                                              | 94.47                                              | 0.87                                         |                                       |       |                                       |   |   |   |   |  |
| T93R-04                                                          | N/C |                                                    |                                                    | 2,07                                         |                                       |       |                                       |   |   |   | • |  |
| T93R-04                                                          | N/C |                                                    |                                                    |                                              |                                       |       |                                       |   |   |   |   |  |
|                                                                  |     |                                                    |                                                    |                                              |                                       |       |                                       |   |   |   |   |  |
|                                                                  |     |                                                    |                                                    |                                              |                                       |       |                                       |   |   |   |   |  |
| T93R-05 e                                                        | •   | 38.69                                              | 39.15                                              | 0.46                                         |                                       |       |                                       |   | , |   |   |  |
| đ                                                                |     | 41.17                                              | 41.68                                              | 0.51                                         |                                       |       |                                       |   |   |   |   |  |
| c upr                                                            |     | 44.17                                              | 44.40                                              | 0.23                                         |                                       |       |                                       |   |   |   |   |  |
| c Pring                                                          |     | 44.40                                              | 44.84                                              | 0.44                                         |                                       |       |                                       |   |   |   |   |  |
| c                                                                |     | 44.84                                              | 46.34                                              | 1.50                                         |                                       |       |                                       |   |   |   |   |  |
| b                                                                |     | 54.24                                              | 54.62                                              | 0.38                                         |                                       |       | •                                     |   |   |   |   |  |
| 117                                                              |     | 58.79                                              | 60.77                                              | 1.98                                         |                                       |       |                                       |   |   |   |   |  |
| 1 Prine                                                          |     | 60.77                                              | 60.79                                              | 0.02                                         |                                       | -     |                                       |   |   |   |   |  |
| 1                                                                |     | 60.79                                              | 64,50                                              | 3.71                                         |                                       |       |                                       |   |   |   |   |  |
|                                                                  | *   | 1                                                  | metres; coal only                                  | 5.69                                         |                                       |       |                                       |   |   |   |   |  |
|                                                                  |     | metr                                               | res; coal and rock                                 | 5.71                                         |                                       |       |                                       |   |   |   |   |  |
| 17 -                                                             |     | 65 19                                              | 65 87                                              | 0.24                                         |                                       |       |                                       |   |   | • |   |  |
| iLa<br>17 D                                                      |     | 65.00                                              | 66.25                                              | 0.34                                         | •                                     |       |                                       |   |   |   |   |  |
|                                                                  |     | 03.82<br>66.25                                     | 00,20<br>22,90                                     | 0.43                                         |                                       |       |                                       |   |   |   |   |  |
| · · · · · ·                                                      |     | 00,20                                              | 00,00                                              | 0.55                                         |                                       |       |                                       |   |   |   |   |  |

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| DRILL-HOLE<br># | SEAM      | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>( | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAI<br>Raw<br>( | MOISTURE<br>Clean<br>%) | A<br>Raw<br>(' | SII<br>Clean<br>%) | VOLATILI<br>Raw<br>(? | E MATTER<br>Clean<br>6) | FIXED (<br>, Raw<br>(? | CARBON<br>Clean<br>%) | CALORIF<br>Raw<br>(MI | IC VALUE<br>Clean<br>//kg) | SULE<br>Raw<br>(? | PHUR<br>Clean<br>4) | YIELD<br>(%) | SPECIA<br>GRAVI<br>Raw<br>(g/cc) ( | IC<br>FY F.S.I.<br>Vshbity<br>g/cc) |
|-----------------|-----------|------------------------|------------------------|-------------------------|-------------------------|----------------------|-------------------------|----------------|--------------------|-----------------------|-------------------------|------------------------|-----------------------|-----------------------|----------------------------|-------------------|---------------------|--------------|------------------------------------|-------------------------------------|
| T93R-06C        | d         |                        | 4,84                   | 5.38                    | 0.54                    |                      |                         |                |                    |                       |                         |                        |                       |                       |                            |                   |                     |              |                                    |                                     |
|                 | · c upr   |                        | 8.58                   | 8.79                    | 0.21                    | 0.72                 | 0.38                    | 32.07          | 16.93              |                       |                         |                        |                       |                       |                            | 5.33              | 6.07                | 53.69        | 1.60                               |                                     |
|                 | c Pring   |                        | 8.79                   | 10.28                   | 1.49                    |                      |                         |                |                    |                       |                         |                        |                       |                       |                            |                   |                     |              |                                    |                                     |
|                 | C         |                        | 10.28                  | 11.88                   | 1,60                    | 0.63                 | 0.61                    | 21.65          | 12.31              | 22.73                 | 26,61                   | 54.99                  | 60,47                 | 26.90                 | 30.33                      | 3,22              | 2.28                | 73.37        | 1.49                               |                                     |
|                 | b         |                        | 18,55                  | 18,83                   | 0,28                    | 0,73                 |                         | 16.63          |                    |                       |                         |                        | <b>、</b>              |                       |                            | 2,96              |                     |              | 1.44                               |                                     |
|                 | 1U        |                        | 21.01                  | 22,88                   | 1.87                    | 0,73                 | 0,82                    | 11.88          | 7,73               | 24.79                 | 27.25                   | 62.60                  | 64.20                 |                       | 31.92                      | 2,43              | 1.49                | 89,35        | 1,40                               |                                     |
|                 | 1 Prtng   |                        | 22,88                  | 23,90                   | 1.02                    | 1,03                 |                         | 77.91          |                    | •                     |                         |                        |                       |                       |                            | 0.45              |                     | ٠            | 2,38                               |                                     |
|                 | 1         |                        | 23,90                  | 27.07                   | 3.17                    | 0,74                 | 0.89                    | 17.95          | 10,41              | 22.93                 | 25.89                   | 58,38                  | 62,81                 |                       | 30.67                      | 0.77              | 0.62                | 80.72        | 1,45                               |                                     |
|                 |           |                        |                        | metres; coal only       | 5.04                    |                      |                         |                |                    |                       |                         |                        |                       |                       |                            |                   |                     |              |                                    |                                     |
|                 | _         |                        | met                    | res; coal and rock      | . 6.06                  |                      |                         |                |                    |                       |                         |                        |                       |                       |                            |                   |                     |              |                                    |                                     |
|                 | Pring     |                        | 27.07                  | 27.43                   | 0,36                    | 0.72                 |                         | 73.94          |                    |                       |                         |                        |                       |                       |                            | 2.45              |                     |              | 2.29                               |                                     |
|                 | ILa       |                        | 27.43                  | 27.93                   | 0,50                    | 0.84                 | 0,63                    | 30.76          | 18.01              |                       | 26,22                   |                        | 55.14                 |                       | 28.10                      | 0.90              | 0.96                |              | 1,58                               | 1.5                                 |
|                 | 11. Pring |                        | 27.93                  | 29.07                   | 1,14                    | 0.73                 |                         | 70.55          |                    |                       |                         |                        |                       |                       |                            | 1.18              |                     |              | 2.21                               |                                     |
|                 | 11.0      |                        | 29.07                  | 29.47                   | 0.40                    | 0.85                 | 0,71                    | 22.83          | 16.68              |                       | 26.04                   |                        | 56,57                 |                       | 28.64                      | 0.85              | 0.86                | 82.89        | 1.50                               | 1.5                                 |
|                 | ILC       |                        | 30.75                  | 37.10                   | 0.45                    |                      |                         |                |                    |                       |                         |                        |                       |                       |                            |                   |                     |              |                                    |                                     |
| T93R-07C        | c         |                        | 83.87                  | 84.85                   | 0.98                    | 0.71                 | 0,64                    | 15.71          | 9.00               |                       | 25.88                   |                        | 64,48                 |                       | 30.66                      | 1.54              | 1.34                | 88,40        | 1.43                               | 1.5                                 |
|                 | Ъ         |                        | 92.35                  | 92.75                   | 0.40                    | 0.65                 | 0.49                    | 13.94          | 8.87               |                       | 28.27                   |                        | 62.37                 |                       |                            | 3.03              | 2.43                | 89.61        | 1.39                               |                                     |
|                 | 1U        |                        | 99.90                  | 102.02                  | 2.12                    | 0.58                 | 0,53                    | 14.69          | 8.07               | 23.31                 | 26.10                   | 61.42                  | 65,30                 | 29,54                 | 32,02                      | 1.31              | 0.99                | 85,76        | 1.42                               | 3.0                                 |
|                 | 1 Pring   |                        | 102.02                 | · 102.06                | 0.04                    |                      |                         |                |                    |                       |                         |                        |                       |                       |                            |                   |                     |              |                                    |                                     |
|                 | 1         |                        | 102.06                 | 106.47                  | 4.41                    | 0.55                 | 0.61                    | 17.06          | 9,25               | 21.56                 | 24.52                   | 60.83                  | 65.62                 | 28,63                 | 31,38                      | 0.70              | 0,63                | 84,38        | · 1.44                             | 2.0                                 |
|                 |           |                        |                        | metres; coal only       | 6.53                    |                      |                         |                |                    |                       |                         |                        |                       |                       |                            | •                 |                     |              |                                    |                                     |
|                 |           |                        | met                    | res; coal and roch      | c 6 <b>.</b> 57         |                      |                         |                |                    |                       |                         |                        |                       |                       |                            |                   |                     |              |                                    |                                     |
|                 | 1La       |                        | 110.52                 | 110.85                  | 0.33                    | 0.65                 | 0.58                    | 34.13          | 17.76              |                       | 25.96                   |                        | 55.70                 |                       | 28,87                      | 2.76              | 2.24                | 47,03        | 1.62                               |                                     |
|                 | 1L Pring  |                        | 110.85                 | 110.95                  | 0.10                    | 0.63                 | ,                       | 81.87          |                    |                       |                         |                        |                       |                       |                            | 0.32              |                     |              | 2.49                               |                                     |
| ,               | 1Lb       |                        | 110.95                 | 112.30                  | 1.35                    | 0.50                 | 0,65                    | 20.11          | 11.45              |                       | 23.98                   |                        | 63,92                 |                       | 30.87                      | 2,04              | 1.43                | 80.09        | 1.47                               |                                     |
| T93R-08C        | c         | 85                     | 3,13<br>/              | 4.63                    | 1.50                    | 0.42                 | 0.83                    | 23.33          | 9.80               | 20.26                 | 24.62                   | 55.99                  | 64.75                 | 26,35                 | 31.27                      | 2.94              | 1.84                | 71.21        | 1.50                               |                                     |
|                 | IU        | 98                     | 8,56                   | 10.62                   | 2.06                    | 0,44                 | 0,99                    | 21.26          | 9.66               | 19.56                 | 23,58                   | 58.74                  | 65,77                 | 26.87                 | 31.28                      | 0,54              | 0.44                | 80.97        | 1.48                               |                                     |
|                 | 1 Pring   |                        | 10.62                  | 11.42                   | 0.80                    | 0,69                 |                         | 76.24          | -                  |                       |                         |                        |                       |                       |                            | 0.26              |                     |              | 2,34                               |                                     |
|                 | 1         | 97                     | 11.42                  | 12,43                   | 1,01                    | 0.47                 | 1.21                    | 18.01          | 12.02              | 23,35                 | 22,75                   | 58.17                  | 64.02                 | 27,62                 | 30.05                      | 0.64              | 0.73                | 81.99        | 1.45                               |                                     |
|                 |           |                        |                        | metres; coal only       | y 3.07                  |                      |                         |                |                    |                       |                         |                        |                       |                       | _                          |                   |                     |              | -                                  |                                     |
|                 |           |                        | met                    | res; coal and rocl      | x 3.87                  | •                    |                         |                |                    |                       |                         |                        |                       |                       |                            |                   |                     |              |                                    |                                     |

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| drill-hole<br># | SEAM    | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>( | EAM INT'RVL<br>To<br>m) | SEAM<br>THÌCKN'S<br>(m) | RESIDUAL<br>Raw<br>(? | MOISTURE<br>Clean<br>4) | A<br>Raw<br>(' | SH<br>Clean<br>%) | VOLATIL<br>Raw<br>( | E MATTER<br>Clean<br>%) | FIXED (<br>Raw<br>(? | CARBON<br>Clean<br>%) | CALORIF<br>Raw<br>(M. | IC VALUE<br>Clean<br>//kg) | SULI<br>Raw<br>(? | 'HUR<br>Clean<br>6) | Yield<br>(%) | SPE<br>GR/<br>Raw<br>(g/cc) | CIFIC<br>VITY<br>Wshblty<br>(g/cc) | F.S.I. |
|-----------------|---------|------------------------|------------------------|-------------------------|-------------------------|-----------------------|-------------------------|----------------|-------------------|---------------------|-------------------------|----------------------|-----------------------|-----------------------|----------------------------|-------------------|---------------------|--------------|-----------------------------|------------------------------------|--------|
|                 |         |                        |                        |                         |                         |                       |                         |                |                   |                     |                         |                      |                       |                       | •                          |                   |                     |              |                             |                                    |        |
|                 | lLa     | 73                     | 14,15                  | 14.90                   | 0.75                    | 0.45                  | 0,62                    | 33,28          | 11.71             | 20.97               | 23.17                   | 45,30                | 64.50                 |                       | 30.86                      | 9.23              | 2.62                | 51,17        | 1.61                        |                                    |        |
|                 | ILb     | 100                    | 16,57                  | 17.16                   | 0.59                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 |         |                        | 18,64                  | 18.95                   | 0.31                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 |         |                        | 26,46                  | 27.01                   | 0.55                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 |         |                        | 27.72                  | 28.27                   | 0.55                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
| T93R-09         | x       |                        | 126.65                 | 127.46                  | 0,81                    |                       |                         |                |                   |                     |                         | _                    |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 | У       |                        | 132.13                 | 132.56                  | 0.43                    |                       |                         |                |                   |                     |                         | •                    |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 |         |                        |                        | ,                       |                         | •                     |                         |                |                   |                     |                         |                      | •                     |                       |                            |                   |                     |              |                             |                                    |        |
| T93R-10         | c       |                        | 45.73                  | 46.34                   | 0,61                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 | d       |                        | 49.33                  | 49.96                   | 0,63                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 | ¢       |                        | 28.77                  | 29.82                   | 1.05                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 |         |                        | 30,30                  | 30.55                   | 0.25                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 |         |                        | 31,00                  | 31.45                   | 0.45                    |                       |                         |                |                   |                     |                         | • •                  |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 |         |                        |                        |                         |                         |                       | •                       |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 | 10      |                        | 32,52                  | 34.42                   | 1.90                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 | 1 Ptmg  |                        | 34,42                  | 34.84                   | 0.42                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 | · 1     |                        | 34.84                  | 36,40                   | 1.56                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 | -       |                        |                        | metres; coal only       | 3.46                    |                       | •                       |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 |         |                        | met                    | es; coal and rock       | 3.88                    |                       |                         |                | •                 |                     | ų.                      |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 |         |                        |                        |                         |                         |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
| T93R-11C        | c upr   |                        | 19.83                  | 20.54                   | 0.71                    | 0.53                  | 0.60                    | 17.73          | 11.19             |                     | 22.37                   |                      | 65.84                 | •                     | 31.07                      | 2.98              | 1.55                | 84.28        | 145                         |                                    | 15     |
|                 | c pring |                        | 20,54                  | 21.13                   | 0.59                    | 1.08                  |                         | 81.12          |                   |                     |                         |                      |                       |                       | 01107                      | 3 4 4             | 1.00                | 01.20        | 2 39                        |                                    | 1,5    |
|                 | с –     |                        | 21.13                  | 23,33                   | 2.20                    | 0.55                  | 0.61                    | 21.81          | 11.13             | 20.06               | 21.20                   | 57.58                | 67.06                 | 27.71                 | 30.96                      | 2.52              | 1.78                | 74 59        | 1 4 9                       |                                    | 0.5    |
|                 |         |                        |                        |                         |                         |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    | 0,0    |
|                 | IU      |                        | 39.85                  | 42.25                   | 2.40                    | 0.74                  | 0.8,1                   | 14,55          | 8,54              | 19.22               | 21.03                   | 65.49                | 69,62                 | 29,63                 | 31.71                      | 2.13              | 1.47                | 87.40        | 1.42                        |                                    | 0,5    |
|                 | 1 Prtng |                        | 42.25                  | 42,30                   | 0.05                    | 1.10                  |                         | 63,41          |                   |                     |                         |                      |                       |                       |                            | 0.40              |                     |              | 2.06                        |                                    |        |
|                 | 1.      |                        | 42.30                  | 46.17                   | 3.87                    | 0.68                  | 0,83                    | 15,97          | 10,17             | 19.19               | 20.73                   | 64,16                | 68.27                 | 28.91                 | 31.05                      | 0.76              | 0.72                | 83,60        | 1.43                        |                                    | 0.0    |
|                 |         |                        |                        | metres; coal only       | 6.27                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 |         |                        | met                    | res; coal and rock      | 6.32                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 | 2       |                        | 47.06                  | 47.60                   | 0.54                    | 0.71                  | 0.69                    | 31.44          | 14.05             |                     | 21.28                   |                      | 63.08                 |                       | 20.04                      | 201               | 2.26                | 50 19        | 1 60                        |                                    |        |
|                 | 11.a    |                        | 48.70                  | 49.58                   | 0.88                    | V.71                  |                         | 01.11          | 17.00             |                     | -1.40                   |                      |                       |                       | 27,74                      | 2.04              | 4.20                | 20,19        | 1.39                        |                                    |        |
|                 | 11.h    |                        | 50.25                  | 50.92                   | 0.67                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 | 11.d    |                        | * 58.81                | 59.31                   | 0.50                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |
|                 |         |                        | 55,51                  |                         | 0.00                    |                       |                         |                |                   |                     |                         |                      |                       |                       |                            |                   |                     |              |                             |                                    |        |

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|-----------------|----------|------------------------|-------------------|--------------------------|-------------------------|---------------------------------------|-------------------------|-------------------------------------|----------------------------------|--------------------------------------------------|-----------------------------|--------------|-----------------------------------------------------|--------|
| drill-hole<br># | SEAM     | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From | EAM INT'RVL<br>To<br>(m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL MOISTURE<br>Raw Clean<br>(%) | ASH<br>Raw Clean<br>(%) | VOLATILE MATTER<br>Raw Cican<br>(%) | FIXED CARBON<br>Raw Clean<br>(%) | CALORIFIC VALUE<br>Raw Clean<br>(MJ/k <u>e</u> ) | SULPHUR<br>Raw Clean<br>(%) | YIELD<br>(%) | SPECIFIC<br>GRAVITY<br>Rxw Wshblty<br>(g/cc) (g/cc) | F.S.I. |
| • •             |          |                        |                   |                          |                         |                                       |                         | ¢                                   |                                  |                                                  | •                           |              |                                                     |        |
| T93R-12         | c        |                        | 67,38             | 68,12                    | 0.74                    |                                       |                         |                                     | × ×                              |                                                  |                             |              |                                                     |        |
|                 | đ        |                        | 72,85             | 73.65                    | 0.80                    |                                       |                         | •                                   |                                  |                                                  |                             |              |                                                     |        |
|                 | c upr    |                        | 76,02             | 76,25                    | 0.23                    |                                       |                         | ,                                   |                                  |                                                  |                             |              |                                                     |        |
|                 | e prtng  |                        | 76.25             | 78.77                    | 2.52                    |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
|                 | C        |                        | 78.77             | 80,80                    | 2.03                    |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
|                 | Ь        |                        | 92.70             | 93.05                    | 0.35                    |                                       |                         |                                     |                                  | ι                                                |                             |              |                                                     |        |
|                 | -        |                        |                   |                          |                         |                                       |                         | •                                   |                                  |                                                  |                             |              |                                                     |        |
|                 | 1U       |                        | 100.31            | 102.85                   | 2.54                    |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
|                 | 1 Prtng  |                        | 102.85            | 102.88                   | 0.03                    |                                       |                         | •                                   |                                  |                                                  |                             |              |                                                     |        |
|                 | 1        |                        | 102.88            | 108.29                   | 5.41                    |                                       |                         |                                     |                                  | ť                                                |                             |              |                                                     |        |
|                 |          |                        |                   | metres; coal only        | 7.95                    |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
|                 |          |                        | met               | res; coal and rock       | . 7.98                  |                                       |                         |                                     |                                  | •                                                |                             |              |                                                     | x      |
| T93R-12 con't.  | ILa      |                        | 113.00            | 113,52                   | 0.52                    |                                       |                         | •                                   |                                  |                                                  |                             |              |                                                     |        |
|                 | IL Pring |                        | 113,52            | 113,97                   | 0.45                    |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
|                 | 1Lb      |                        | 113,97            | 114,70                   | 0.73                    |                                       |                         |                                     | .*                               |                                                  |                             |              |                                                     |        |
|                 | ILc      |                        | 116,20            | 116.85                   | 0,65                    |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
|                 | iLd      |                        | 120.85            | 121.90                   | 1.05                    |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
|                 | pring    |                        | 121.90            | 121,96                   | 0,06                    |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
|                 | ILd      |                        | 121.96            | 122,77                   | 0.81                    |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
|                 | prtng    |                        | 122.77            | 122.87                   | 0.10                    |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
|                 | 1Ld      |                        | 122.87            | 123,57                   | 0.70                    |                                       | •                       |                                     |                                  |                                                  |                             |              |                                                     |        |
|                 |          |                        |                   |                          | 2.72                    |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
|                 |          |                        |                   |                          |                         |                                       |                         |                                     |                                  | •                                                |                             |              | · .                                                 |        |
| TOT 12          | 21/0     |                        |                   |                          |                         |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
| 195K-15         | N/C      |                        |                   |                          |                         | Ŧ                                     |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
| T93R-14         | N/C      |                        |                   |                          |                         |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
| T93R-15         | N/C      | Tertiary seds.         |                   |                          |                         |                                       |                         | <i>`</i>                            |                                  |                                                  |                             |              |                                                     |        |
|                 |          |                        |                   |                          |                         |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |
| T93R-16         | N/C      | Tertiary seds.         |                   | •                        |                         |                                       | •                       |                                     |                                  |                                                  |                             |              |                                                     |        |
|                 |          |                        |                   |                          |                         |                                       |                         | ,                                   |                                  |                                                  |                             |              |                                                     |        |
|                 |          |                        |                   |                          |                         |                                       |                         |                                     |                                  |                                                  |                             |              |                                                     |        |

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| DRILL-HOLE<br># | SEAM     | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>( | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw<br>( | . MOISTURE<br>Cican<br>%) | A<br>Raw<br>(9 | GH<br>Clean<br>4) | VOLAT.<br>Ray | ILE MATTER<br>Clean<br>(%) | FIXI<br>Ra   | D CARBON<br>w Clean<br>(%) | CALORI<br>Raw<br>(M | FIC VALUE<br>Ciean<br>IJ/kg) | . 1    | SULPI<br>law<br>(%) | IUR<br>Clean | VIELD<br>(%)   | SPE<br>GR/<br>Raw<br>(g/cc) | CIFIC<br>VITY<br>Wshblty<br>(g/ce) | F.S.I |
|-----------------|----------|------------------------|------------------------|-------------------------|-------------------------|----------------------|---------------------------|----------------|-------------------|---------------|----------------------------|--------------|----------------------------|---------------------|------------------------------|--------|---------------------|--------------|----------------|-----------------------------|------------------------------------|-------|
| T93R-17         | 1U       |                        | 77.95                  | 80.41                   | 2,46                    |                      |                           |                |                   |               |                            |              |                            | •                   |                              |        |                     |              |                |                             |                                    |       |
|                 | 1 Pring  |                        | 80,41                  | 81,66                   | 1.25                    |                      |                           |                |                   |               |                            |              |                            | •                   |                              |        |                     |              |                |                             |                                    |       |
|                 | 1        | •                      | 81.66                  | . 85.90                 | 4,24                    |                      |                           |                |                   |               |                            |              |                            |                     |                              |        |                     |              |                |                             |                                    |       |
|                 |          |                        | 1                      | metres; coal only       | 6,70                    |                      |                           |                |                   |               |                            |              |                            |                     |                              |        |                     |              |                |                             |                                    |       |
|                 |          |                        | metr                   | es; coal and rock       | 7,95                    |                      |                           |                |                   |               |                            |              |                            |                     |                              |        |                     |              |                |                             |                                    |       |
|                 | ILa      |                        | 88.88                  | 89.54                   | 0,66                    |                      |                           |                | •                 |               |                            |              |                            |                     |                              |        |                     |              |                |                             |                                    |       |
|                 | 1L pring |                        | 89,54                  | 89,72                   | 0,18                    |                      |                           |                |                   |               |                            |              |                            |                     |                              |        |                     |              |                |                             |                                    |       |
| ~               | 1L.b     |                        | 89,72                  | 90,82                   | 1.10                    | •                    |                           |                |                   |               |                            |              |                            |                     |                              |        |                     |              |                |                             |                                    |       |
|                 |          |                        | 101.43                 | 102.27                  | 0.84                    |                      |                           |                |                   |               |                            |              |                            |                     |                              |        |                     |              |                |                             |                                    |       |
|                 |          |                        | 103,14                 | 103.61                  | 0.47                    |                      |                           |                |                   | -             |                            |              |                            |                     |                              |        |                     |              |                |                             |                                    |       |
|                 |          |                        | 107.01                 | 107.30                  | 0,29                    |                      |                           |                |                   |               |                            |              |                            |                     |                              |        |                     |              |                |                             |                                    |       |
| T93R-18         | ?        |                        | 24,40                  | 26,19                   | 1,79                    |                      |                           |                |                   |               |                            |              |                            |                     |                              |        |                     |              |                |                             |                                    |       |
| T93R-19         | N/C      |                        |                        |                         |                         |                      |                           |                |                   |               |                            |              |                            |                     | -                            |        |                     |              |                |                             |                                    |       |
| T93R-20         | N/C      | Tertiary seds.         |                        |                         |                         |                      |                           |                |                   |               |                            |              |                            |                     |                              |        |                     |              |                |                             |                                    |       |
| T93D-45         | d        |                        | 39.50                  | 40.03                   | 0,53                    |                      |                           |                |                   |               |                            |              |                            |                     |                              |        |                     |              |                |                             |                                    |       |
|                 |          | 60                     | 44.09                  | 44 57                   | 0 4 0                   | 0.60                 |                           | 41.64          |                   |               |                            | -            |                            |                     |                              |        |                     |              |                |                             |                                    |       |
|                 | 0.000    | 100                    | 44.00                  | 44.57                   | 0,49                    | 0.57                 |                           | 41.04          |                   |               |                            |              |                            |                     |                              | 1      | .45                 |              |                | 1,72                        |                                    |       |
|                 | c prig   | 100                    | 44.76                  | 46.13                   | 1 37                    | 0.05                 | 0.71                      | 70.15          | 10.64             | 74.4          | 25.60                      | <b>69</b> (  | 2 62.05                    | 20.00               | 20.60                        | ں<br>ب | 1.40                | 1.20         | 04.00          | 2.39                        |                                    |       |
|                 | v        | 55                     | 44.10                  | 40.15                   | 2.05                    | 0.07                 | 0.42                      | 32 14          | 12.04             | 24.4          | ) 25.60                    | JO,U<br>44 3 | 5 60.82                    | 20.00               | 30,38                        | 4      | 66                  | 1,32         | 84.59<br>62 16 | 1,43                        |                                    |       |
|                 | t        | 90                     | 58.17                  | 60.00                   | 1.83                    | 0.83                 | 0.50                      | 33.90          | 15.17             | 24.9          | 30.48                      | 40.3         | 7 53.85                    | 22,47               | 29,92                        |        |                     | 1.20         | 55.10          | 1.00                        |                                    |       |
|                 | IL.      | 100                    | 128.75                 | 129.23                  | 0.48                    | 0.66                 | 0.41                      | 50.13          | 23.91             | 24.9          | 24.80                      | 401.         | 50.88                      | 21,75               | 25.37                        | -      | 38                  | 1.27         | 11.52          | 1.02                        |                                    |       |
|                 | •        |                        |                        |                         |                         | 0.00                 |                           | 50.15          |                   | •             | 24.00                      |              | 00.00                      |                     | 13.13                        | -      |                     | 1.02         | 11.55          | 1,00                        |                                    |       |
| T93D-47         | ?        |                        | 166.81                 | 167,17                  | 0.36                    | 0.64                 | 0.36                      | 31.17          | 19.98             |               | 19.57                      |              | 60.09                      |                     | 28 70                        |        | 1.86                | 1.65         | 59 73          | 1 59                        |                                    |       |
|                 | ?        |                        | 168.03                 | 168.95                  | 0,92                    | 0.74                 | 0.38                      | 26.27          | 17.83             |               | 20.38                      |              | 61.41                      |                     | 29.34                        | -      | 14                  | 1.72         | 73 15          | 1.57                        |                                    |       |
|                 |          |                        |                        |                         |                         |                      |                           |                |                   |               |                            |              | ••••                       |                     |                              | •      |                     |              | 10.10          | 2107                        |                                    |       |
| T93R-49         | N/C      |                        | 101.10                 | 101,65                  | 0.55                    |                      |                           |                |                   |               |                            |              |                            |                     |                              |        |                     |              |                |                             |                                    |       |
|                 | 1U/1??   |                        | 100.00                 | 104.40                  | 4.40                    | very dirty           |                           |                |                   |               |                            |              |                            |                     |                              |        |                     |              |                | -                           |                                    |       |
| T93D-53         | 7        |                        | 40.96                  | 41.29                   | 0,33                    | 0.38                 | 0,37                      | 22.21          | 18.92             |               |                            |              |                            |                     |                              | 1      | .95                 | 1.92         | 83,99          | 1.49                        |                                    |       |

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| DRILL-HOLE SEAM<br># | SEAM<br>REC'VRY<br>(%) | DRILLEÐ SI<br>Fram<br>(1 | EAM INT'RVL<br>To<br>n) | SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw<br>(* | MOISTUR<br>Clean<br>%) | E | A:<br>Raw<br>(? | SH<br>Clean<br>4) | VOLATILI<br>Rayy<br>(1 | E MATTER<br>Clean<br>%) | FIXED (<br>Raw<br>(* | CARBON<br>Clean<br>%) | CAI | LORIFI<br>Raw<br>(MJ/ | C VALUE<br>Clean<br>kg) | SULF<br>Raw<br>(? | HUR<br>Clean<br>6) | YIELD<br>(%) | SPECIFIC<br>GRAVITY<br>Raw Wsht<br>(g/cc) (g/cc) | F.S.I.<br>lty |
|----------------------|------------------------|--------------------------|-------------------------|-------------------------|-----------------------|------------------------|---|-----------------|-------------------|------------------------|-------------------------|----------------------|-----------------------|-----|-----------------------|-------------------------|-------------------|--------------------|--------------|--------------------------------------------------|---------------|
| c                    |                        | 46.48                    | 48.18                   | 1.70                    | 0.69                  | 0.55                   |   | 16.75           | 10.49             | 21,37                  | 24,12                   | 61.19                | 64.84                 | · 2 | 9.10                  | 31.59                   | 1,80              | 1.42               | 82.58        | 1.44                                             |               |
| 1U                   |                        | 56,19                    | 58.65                   | 2.46                    | 0,60                  | 0.49                   |   | 13,03           | 9.08              | 22.53                  | 24,83                   | 63.84                | 65.60                 | 3   | 0,45                  | 31.71                   | 0,88              | 0,85               | 88.13        | 1.41                                             |               |
| 1 Prtng              |                        | 58,65                    | 58.65                   |                         |                       |                        |   |                 |                   |                        |                         |                      |                       |     |                       |                         |                   |                    |              |                                                  |               |
| 1                    |                        | 58,65                    | 62.96                   | 4.31                    | 0,96                  | 0.54                   |   | 21,99           | 9.55              | 19,91                  | 23,82                   | 57.14                | 66.09                 | 2   | 7.85                  | 31.57                   | 0,75              | 0,58               | 74.79        | 1.49                                             |               |
| iLa                  |                        | 67.35                    | 67,72                   | 0,37                    | 0,25                  | 0.37                   |   | 29,05           | 14.89             |                        |                         |                      |                       |     |                       |                         | 3,75              | 1.97               | 53.97        | 1.56                                             |               |
| ?                    |                        | 71.23                    | 71,57                   | 0,34                    | 0.37                  | 0.28                   |   | 42,25           | 30.11             |                        |                         | _                    |                       |     |                       |                         | 2.96              | 2.45               | 25.03        | 1.72                                             |               |
| 1Ld upr              |                        | 74,40                    | 75,15                   | 0.75                    | 0.36                  | 0.27                   |   | 38,39           | 19.24             |                        |                         |                      |                       |     |                       |                         | 3.98              | 2.67               | 46.46        | 1.67                                             |               |
| ILd lwr              |                        | 76,80                    | 77,44                   | 0.64                    | 0.51                  | 0.54                   |   | 19.67           | 10,85             | 23,45                  |                         | 56.88                |                       | 2   | 7.19                  |                         | 0.67              | 0.68               | 77.92        | 1.47                                             |               |
| ILe                  |                        | 84,96                    | 85,34                   | 0,38                    | 0.34                  | 0.38                   | • | 13.23           | 11.05             | 24.16                  |                         | 62.61                |                       |     |                       |                         |                   | 0.49               | 89.90        | 1.41                                             |               |

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| DRILL-HOLE<br># | SEAM            | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>( | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL M<br>Raw<br>(% | 10ISTURE<br>Clean<br>) | Af<br>Raw<br>(5 | SH<br>Clean<br>4) | VOLATI<br>Raw | LE MATTER<br>Clean<br>(%) | FEXED C<br>Raw<br>(% | Clean | CALORIF<br>Raw<br>(MJ | IC VALUE<br>Clean<br>/kg) | SULI<br>Raw | PHUR<br>Clean<br>4) | YIELD<br>(%) | SPE<br>GR/<br>Raw<br>(g/cc) | CIFIC<br>VITY<br>Wshbity<br>(g/ee) | F.S.I. |
|-----------------|-----------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|------------------------|-----------------|-------------------|---------------|---------------------------|----------------------|-------|-----------------------|---------------------------|-------------|---------------------|--------------|-----------------------------|------------------------------------|--------|
| T94R-01         | 1U              |                        | 10,48                  | 12.53 .                 | 2,05                    |                         |                        |                 |                   | ,             |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 | 1 Prtg          |                        | 12,53                  | 15.65                   | 3,12                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 | 1               |                        | 15.65                  | 17.98                   | 2,33                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 |                 |                        |                        | metres; coal only       | 4,38                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 |                 |                        | met                    | res; coal and rock      | 7.50                    | •                       |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 | 1La?            |                        | 18,34                  | 18.61                   | 0.27                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 | 11.67           |                        | 22,62                  | 23,19                   | 0.57                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    | •      |
|                 | ILc?            |                        | 24,10                  | 24.59                   | 0.49                    |                         | ,                      |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 | 7               |                        | 33,12                  | 33,46                   | 0.34                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
| ¥               | ،<br>م          |                        | 74,23                  | 74,00                   | 0.41                    |                         |                        |                 |                   |               |                           |                      | •     |                       | •                         |             |                     |              |                             |                                    |        |
|                 | 2               |                        | 76.40                  | 76,20                   | 0.58                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
| ,               | ?               |                        | 77.51                  | 77.96                   | 0.45                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 |                 |                        |                        |                         |                         |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
| T94R-02         | N/C             |                        |                        |                         |                         |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
| T94R-03         | c               |                        | 0.61                   | 1.50                    | 0,89                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 | 1U              |                        | 14.09                  | 15,78                   | 1,69                    |                         |                        |                 |                   |               |                           | •                    |       |                       |                           |             |                     |              |                             |                                    |        |
|                 | 1 Prtg          |                        | 15.78                  | 15.78 °                 |                         |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 | 1               |                        | 15.78                  | 19.41                   | 3.63                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 |                 |                        |                        | metres; coal only       | 5.32                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 |                 |                        | met                    | res; coal and rock      | 5,32                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              | •                           |                                    |        |
| ۲               | 1La             |                        | 20.40                  | 20.75                   | 0.35                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 | 1Lb             |                        | 21.12                  | 21,87                   | 0.75                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 | ILC<br>II.d.lum |                        | 23,20                  | 23,39                   | 0.39                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 | 1Lu iwr         |                        | 38 50                  | 32.79                   | 0.38                    |                         | ,                      |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 | 11.6            |                        | 56,50                  | 50,70                   | 0.20                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
| T94R-04C        | ?               |                        | 34.09                  | 34.33                   | 0.24                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 | c upr           |                        | 37.50                  | 37.7 <del>9</del>       | 0,29                    |                         |                        |                 |                   |               |                           |                      |       |                       |                           |             |                     |              |                             |                                    |        |
|                 | c               | 100                    | 40,44                  | 42,38                   | 1.94                    | 1.20                    | 1,07                   | 19.09           | 10,23             | 26.10         | 28.11                     | 53,61                | 60,59 | 27.39                 | 31.92                     | 3.39        | 1.55                | 79.91        |                             |                                    |        |
|                 | b               | 100                    | 49.40                  | 49.76                   | 0.36                    | 0.78                    |                        | 15,22           |                   |               |                           |                      |       |                       |                           | 3.98        |                     |              |                             |                                    |        |
|                 | IU              | 100                    | 53.95                  | 55.80                   | 1.85                    | 1.17                    | 1.13                   | 13.91           | 7.02              | 26.96         | 29,16                     | 57.96                | 62.69 | 29,88                 | 32,54                     | 1.89        | 1.25                | 87.60        |                             |                                    |        |
|                 | 1 Prtg          | 100                    | 55.80                  | 56.36                   | 0.56                    | 1.04                    |                        | 78.75           |                   |               |                           |                      |       |                       |                           | 0.13        |                     |              |                             |                                    |        |

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| DRILL-HOLE<br># | SEAM    | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>( | EAM INT'RVL<br>To<br>(m)   | . SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw<br>( | MOISTURE<br>Clean<br>%) | A:<br>Raw<br>(1 | SH<br>Clean<br>%) | VOLATILE MATTER<br>Raw Clean<br>(%) | FIXED<br>Raw<br>( | CARBON<br>Clean<br>(%) | CALORIFIC VALUE<br>Raw Clean<br>(MJ/kg) | SULPHUR<br>Raw Clean<br>(%) | YIELD<br>(%) | SPECIFIC<br>GRAVITY<br>'Raw Wshblty<br>(g/cc) (g/cc) | F.S.I. |
|-----------------|---------|------------------------|------------------------|----------------------------|---------------------------|----------------------|-------------------------|-----------------|-------------------|-------------------------------------|-------------------|------------------------|-----------------------------------------|-----------------------------|--------------|------------------------------------------------------|--------|
| •               | 1       | 100                    | 56,36                  | 60.17<br>metres; coal only | 3.81                      | 1.26                 | 1.20                    | 16,16           | 8,90              | 24.77 26.07                         | . 57.81           | 63.83                  | 28.58 31.30                             | 0.62 0.53                   | 85.54        |                                                      |        |
|                 |         |                        | meti                   | res; coal and rock         | 6.22                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              |                                                      |        |
|                 | ILa     | 100                    | <del>6</del> 2.16      | 62.64                      | 0.48                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              |                                                      |        |
|                 | IL Prtg | 43                     | 62.64                  | 62.85                      | 0.21                      |                      |                         |                 |                   |                                     | •                 |                        |                                         |                             |              |                                                      |        |
|                 | ILb     | 100                    | 62.85                  | 63.05                      | 0.20                      | •                    |                         |                 |                   |                                     |                   |                        |                                         |                             |              |                                                      |        |
|                 |         |                        |                        |                            | 0.89                      | 0,82                 | 0,75                    | 39.51           | 16.87             |                                     |                   |                        | 28.80                                   | 3.26 1.90                   | 42.50        |                                                      |        |
| •               | 1Lc?    |                        | 67.40                  | 67.65                      | 0.25                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              |                                                      |        |
|                 |         |                        | 69.03                  | 69.20                      | 0.17                      |                      |                         |                 |                   |                                     |                   |                        |                                         | •                           |              |                                                      |        |
|                 |         |                        | 72.05                  | 72.22                      | 0.17                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              |                                                      |        |
|                 |         |                        |                        |                            |                           |                      |                         |                 |                   |                                     |                   |                        | • •                                     |                             |              |                                                      |        |
| T94R-05         |         |                        | 58,68                  | 59,03                      | 0.35                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              |                                                      |        |
|                 |         |                        | 70,56                  | 71.62                      | 1.06                      | •                    |                         |                 |                   |                                     |                   |                        | ,                                       |                             |              |                                                      |        |
|                 |         |                        | 79,31                  | 79.57                      | 0.26                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              |                                                      |        |
|                 |         |                        | 84,85                  | 85,52                      | 0.67                      |                      |                         |                 |                   |                                     | • •               |                        |                                         |                             |              |                                                      |        |
|                 |         |                        | 88,26                  | 88.91                      | 0.65                      |                      |                         |                 | •                 |                                     |                   |                        |                                         |                             |              |                                                      |        |
|                 |         |                        | 93,53                  | 94.21                      | 0.68<br>-                 |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              | •                                                    |        |
|                 |         |                        |                        |                            |                           |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              |                                                      |        |
| 1941-00         | 1       |                        | 135.00                 | 133.14                     | 0,14                      |                      |                         |                 |                   |                                     |                   | ¥                      |                                         |                             |              |                                                      |        |
|                 | ж<br>1  | ``                     | 141,74                 | 142.13                     | 0,39                      |                      |                         |                 |                   |                                     |                   |                        | ,                                       |                             |              |                                                      |        |
|                 | y<br>2  |                        | 147.00                 | 147,52                     | 0,20                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             | •            |                                                      |        |
|                 | , ,     |                        | 151.94                 | 152.21                     | 0.27                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              |                                                      |        |
|                 | •       |                        |                        |                            | 0,27                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              |                                                      |        |
| T94R-07         | 7       |                        | 64,56                  | 64.68                      | 0,12                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              |                                                      |        |
|                 | ç       |                        | 79,28                  | 80,52                      | 1.24                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              |                                                      |        |
|                 | Ъ       |                        | 89.65                  | 90.01                      | 0.36                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              | ,                                                    |        |
|                 | tU      |                        | 96.37                  | 98.19                      | 1.82                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              |                                                      |        |
|                 | 1 Prtg  |                        | 98.19                  | 98.19                      |                           |                      |                         |                 |                   | •                                   |                   |                        |                                         |                             |              |                                                      |        |
|                 | 1       |                        | 98.19                  | 102.27                     | 4.08                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              | -                                                    |        |
|                 |         |                        |                        | metres: coal only          | 5.90                      |                      |                         |                 |                   |                                     |                   |                        |                                         |                             |              |                                                      |        |

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| DRILL-HOLE<br># | SEAM    | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>( | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUA<br>Raw | L MOISTURE<br>Clean<br>(%) | A<br>Raw<br>( | SH<br>Clean<br>%) | , | VOLATILI<br>Raw<br>(* | E MATTER<br>Clean<br>%} | FL | KED CAR<br>Raw C<br>(%) | BON<br>Jean | CALORII<br>Raw<br>(M | FIC VALUE<br>Clean<br>J/kg) | SUI<br>Raw | .PHUR<br>Ciean<br>(%) | YIELD<br>(%) | 5<br>0<br>Ru<br>(2/0 | PECIFIC<br>RAVITY<br>w Wshbl<br>c) (g/st) | F.S.I.<br>y |
|-----------------|---------|------------------------|------------------------|-------------------------|-------------------------|----------------|----------------------------|---------------|-------------------|---|-----------------------|-------------------------|----|-------------------------|-------------|----------------------|-----------------------------|------------|-----------------------|--------------|----------------------|-------------------------------------------|-------------|
|                 |         |                        | metr                   | es; coal and rock       | c 5.90                  |                |                            |               |                   | , | •                     |                         |    |                         |             | •                    |                             |            |                       |              |                      |                                           |             |
|                 | lLa     |                        | 107.23                 | 108.36                  | 1.13                    |                |                            |               |                   |   |                       |                         | •  |                         |             |                      |                             |            |                       |              |                      |                                           |             |
|                 | IL Prtg |                        | 108.36                 | 109,70                  | 1,34                    |                |                            |               |                   |   |                       |                         |    |                         |             |                      |                             |            |                       |              |                      |                                           |             |
|                 | ILb     |                        | 109.70                 | 110.27                  | 0,57                    |                |                            |               |                   |   |                       |                         |    |                         |             |                      |                             |            |                       |              |                      |                                           |             |
|                 | 1Lc?    |                        | 114,86                 | 115.43                  | 0.57                    |                |                            |               |                   |   |                       |                         |    |                         | •           |                      |                             |            |                       |              |                      |                                           | •           |
|                 | ?       |                        | 116.52                 | 117.11                  | 0.59                    | •              |                            |               |                   |   |                       |                         |    |                         |             |                      |                             |            |                       |              |                      |                                           |             |
| T94R-08         | ?       |                        | 113,14                 | 113.79                  | 0.65                    |                |                            |               |                   |   |                       |                         |    |                         |             |                      |                             |            |                       |              |                      |                                           |             |
|                 | ?       |                        | 123,80                 | 124.17                  | 0.37                    |                |                            |               |                   |   |                       |                         |    |                         |             |                      |                             |            |                       |              |                      |                                           |             |
|                 | •       |                        |                        |                         | `                       |                |                            |               |                   |   |                       |                         |    |                         |             |                      |                             |            |                       |              | •                    |                                           |             |
| T94R-09         | N/C     |                        |                        |                         |                         |                |                            |               |                   |   |                       |                         |    |                         |             |                      |                             |            |                       |              |                      |                                           |             |
| T94R-10C        |         |                        | 49.33                  | 49.96                   | 0,63                    |                |                            |               |                   |   |                       |                         |    | •                       |             |                      |                             |            |                       |              |                      |                                           |             |
|                 | C       |                        | 54.53                  | 56.36                   | 1,83                    | 1.05           | 0.87                       | 21,46         | 10.34             |   | 24,16                 | 26,87                   | 53 | 3.32 6                  | 51.92       | 26.80                | 31.12                       | 2.19       | 1.27                  | 72.56        |                      |                                           |             |
|                 | IU      |                        | 71.15                  | 73.66                   | 2.51                    | 1.12           | 1.00                       | 18,37         | 8,60              |   | 25.91                 | 28.15                   | 5  | 4.60 6                  | 52.25       | 27.94                | 29.69                       | 1.50       | 0.89                  | 78.25        |                      |                                           |             |
|                 | 1 Prtg  |                        | 73.66                  | 74.94                   | 1.28                    | 0.89           |                            | 82,54         |                   |   |                       |                         |    |                         |             |                      |                             | 0,12       |                       |              |                      |                                           |             |
|                 | 1       |                        | 74.94                  | 79.05                   | 4.11                    | 0.98           | 0.93                       | 16.08         | 9,23              |   | 25.06                 | 25,74                   | 5' | 7,88 6                  | 4.10 .      | 28,97                | 31.31                       | 0.41       | 0.46                  | 83.86        |                      |                                           |             |
|                 |         |                        |                        | metres; coal only       | y 6,62                  |                |                            |               |                   |   |                       |                         |    |                         |             |                      |                             |            |                       |              |                      |                                           |             |
|                 |         |                        | met                    | res; coal and roc       | k 7.90                  |                |                            |               |                   |   |                       |                         |    |                         |             |                      |                             |            |                       |              |                      |                                           |             |
|                 | ILa     |                        | 81.51                  | 82.60                   | 1.09                    | 0,96           | 0.98                       | 33,74         | 14,95             |   | 24.17                 | 25.77                   | 4  | 1.13 5                  | 58,30       | 21,35                | 29.42                       | 2,14       | 1.48                  | 58.82        |                      |                                           |             |
|                 | լլթ     |                        | 84.08                  | 84.52                   | 0.44                    | 0,98           | 0.78                       | 22,14         | 14,39             |   | 27.69                 | 29,16                   | 4  | 9,19 5                  | 55,67       | 26,56                | 29.66                       | 1,55       | 1.68                  | 76.05        |                      |                                           |             |
|                 |         |                        |                        |                         |                         |                | ,                          |               |                   |   |                       |                         |    |                         |             |                      |                             |            |                       |              |                      |                                           |             |
| T94R-11         | N/C     | ,                      |                        |                         |                         |                |                            |               |                   |   |                       |                         |    |                         |             |                      |                             |            |                       |              |                      |                                           |             |
| T94R-12         | IU      |                        | 40.74                  | 42,81                   | 2.07                    |                |                            |               |                   |   |                       |                         |    |                         |             |                      |                             |            |                       |              |                      | 1                                         |             |
|                 | 1Lb     |                        | 53,48                  | 54.02                   | 0,54                    |                |                            | •             |                   |   |                       |                         |    |                         |             |                      |                             |            |                       |              |                      |                                           |             |
| T94R-13         | N/C     |                        |                        |                         |                         | •              |                            |               |                   |   |                       |                         |    |                         |             |                      |                             |            |                       |              |                      |                                           |             |

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| DRILL-HOLE<br># | SEAM     | SEAM<br>REC'VRY<br>(%) | DRILLED SEAM INT'RVL<br>From To<br>(m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL MOISTURE<br>Raw Clean<br>(%) | ASH<br>Raw Clean<br>(%) | VOLATILE MATTER<br>Raw Clean<br>(%) | FIXED CARBON<br>Raw Clean<br>(%) | CALORIFIC VALUE<br>Raw Clean<br>(MJ/kg) | SULPHUR<br>Raw Clean<br>(%) | YIELD<br>(%) | SPECIFIC<br>GRAVITY<br>Raw Wshblty<br>(g/cc) (g/cc) | F.S.I.       |
|-----------------|----------|------------------------|----------------------------------------|-------------------------|---------------------------------------|-------------------------|-------------------------------------|----------------------------------|-----------------------------------------|-----------------------------|--------------|-----------------------------------------------------|--------------|
| ,               |          |                        |                                        |                         | •                                     |                         |                                     |                                  |                                         | •                           |              |                                                     | 3.00<br>0.01 |
|                 | •        |                        |                                        |                         |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |              |
|                 |          | ·                      |                                        |                         |                                       |                         |                                     | ,                                |                                         |                             |              |                                                     |              |
|                 |          |                        |                                        |                         |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |              |
|                 | <i>.</i> |                        |                                        |                         |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |              |
|                 |          |                        |                                        |                         | Y                                     |                         | ,                                   |                                  |                                         |                             | ·            |                                                     | ŗ            |
|                 |          |                        |                                        |                         |                                       |                         |                                     |                                  |                                         |                             |              |                                                     |              |

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## TELKWA PROJECT - COAL QUALITY SUMMARY

### TENAS CREEK

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| •••••     |               |     |      |      |     | RAV     | V SULIFUR F | ORMS        | WAS     | ied sulfu | R FORMS |          |        |       |         |         |            |             |        |         | • ••• •• |         | 1     |         |         | A.D.      |         |            |      | 1      |           |         | FUSION ANA | LYSIS OF AS | I    |          |       |
|-----------|---------------|-----|------|------|-----|---------|-------------|-------------|---------|-----------|---------|----------|--------|-------|---------|---------|------------|-------------|--------|---------|----------|---------|-------|---------|---------|-----------|---------|------------|------|--------|-----------|---------|------------|-------------|------|----------|-------|
|           |               | EQM | ILGL | P    | CL  | -       |             | <del></del> |         | <u> </u>  |         |          |        |       |         | - MINER | AL ANALYS  | 515 OF A511 |        |         |          |         | ·     |         | - ULTIM | IATE ANAL | Y515    |            |      | _      | - OXIDIZI | /G      |            |             |      | REDUCING |       |
|           | SLAM          | (%) |      | (%)  | (%) | Pyritic | Sulfate     | Organic     | Pyritic | Sulfate   | Organic | 5102     | AEOJ   | TIOZ  | Fe203 - | C:0     | MgO<br>(%) | NA2O        | 120    | P205    | 503      | %Undet. | %1120 | o %c    | *11     | · %N<br>  | %ASH    | <b>%</b> S | %0   | Init.  | Soft.     | itenia, | 5744<br>   | Init,       | Soft | Hemis.   | 21-04 |
|           |               |     |      |      |     |         |             |             |         |           | •       | <u> </u> |        |       |         |         |            |             |        | · · · . |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
| TBIR-108  | N/C           |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
| T82R-203  |               |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           |               |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           | 1             |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           | -             |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          | •     |
| T82R-205  | 1U<br>1 Prine |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         | •          |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           | 1             |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           |               |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           | 114           |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           |               |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
| T82R-206  | 7             |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        | •       |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           | 7             |     |      |      |     |         |             | ·           |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           | 7             |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           | 7             |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           |               |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           | 1U<br>1 Pring |     |      |      |     |         |             |             |         |           |         |          |        |       | د       |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           | 1             |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          | •     |
|           |               |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         | \$        |         |            | •    |        |           |         | •          |             |      |          |       |
| T82R-207  | IU            |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           | 1 Pring       |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         | •          |             |      |          |       |
|           | 1             |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           |               |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
| T978-39C  | 111           |     |      |      |     |         |             |             |         |           |         |          |        |       | •       |         |            |             |        |         |          |         | r     |         |         |           |         |            |      |        |           |         |            | •           |      |          |       |
| 17110-270 | Pring         |     |      |      |     |         |             |             |         |           | •       |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           | 1             |     | 66   |      |     | 0,12    | 0.01        | 0,48        | 0,12    | 0,03      | 0.46    | , 54.8   | 8 25,9 | 0 1.8 | 9 2.8   | 8 5,7   | 72 0,8     | 81 0,       | 15 0.3 | 7 0.1   | 78 4.6   | 52 2.00 | 1.17  | 7 71,06 | 4.3     | 3 0.8     | 2 15.84 | 0,62       | 6.16 | 5 1435 | 1435      | 1435    | 1435       | 1435        | 1435 | 1435     | 1435  |
|           |               |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           |               |     |      |      | •   |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           | ibda<br>ILa   |     |      |      |     | 0.32    | 0.02        | 0.34        |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
|           |               |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         | 1     |         |         |           |         |            |      | i -    |           |         |            |             |      |          |       |
| T01D_{0   | 1112          |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         | •     |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
| 1920-10   | 1 Pring       |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            |             |      |          |       |
| •         | 1             |     |      | 0.08 |     | 0.31    | 0.01        | 0.51        |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        | •         |         |            |             |      | ×        |       |
|           |               |     |      |      |     |         |             |             |         |           |         |          |        |       |         |         |            |             |        |         |          |         |       |         |         |           |         |            |      |        |           |         |            | -           |      |          |       |

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|         |          | EQM    | JLG.L | P    | cî,  | RAY    | ** SULFUR F | ORMS    | WASII              | ED SULFUI | R FORMS |        |         |      |       | UNERAL A | NALYSIS O | F ASII |      |      |      |        | _     |       | . ULTINIAT | A.D.<br>E ANALVSI | ۹     |      | İ    |       | VIDIZING | FUS       | ION ANALYSI | 5 OF ASIL = |       | EDUCING |       |
|---------|----------|--------|-------|------|------|--------|-------------|---------|--------------------|-----------|---------|--------|---------|------|-------|----------|-----------|--------|------|------|------|--------|-------|-------|------------|-------------------|-------|------|------|-------|----------|-----------|-------------|-------------|-------|---------|-------|
| HI-HOLE | SEAM     | MOISTR |       |      |      |        | AD          |         | eseries<br>buriste | A.D       | SI      | 02     | A1203 1 | 102  | Fe2O3 | CaO /    | 140       | Na20   | 120  | P205 | 503  | Wodet. | %1120 | %C    | %11        | %N                | %ASII | %S   | *0   | luit. | Soft     | llends. I | Ftuda       | Init.       | Soft. | ilemia. | F1:44 |
| •       |          | (%)    |       | (%)  | (%)  | 17ABC  | Sulfate     | Organic | Fyrine             | Saliste   | Organie |        |         |      |       |          | - (%)     |        |      |      |      |        |       |       |            | - (%)             |       |      |      |       |          |           | (Temp.      | <b>9</b>    |       |         |       |
|         | 4        |        |       |      |      |        |             |         |                    |           |         |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      | 1-   | *     |          |           | *           |             |       |         |       |
|         | CIDE     |        |       |      |      |        |             |         |                    |           |         |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | c Pring  |        |       |      |      |        |             |         |                    |           |         |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | с.       |        |       | 0.08 |      | 1.45   | 0.02        | 1.75    | 0.87               | 0.03      | 1.41    |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | Ъ        |        |       |      |      | 1.75   | 0,04        | 1.17    |                    | -,        |         |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | trt      |        |       |      |      | 1.07   | 0.07        |         | 0.27               | 0.03      | 1.10    |        | •       |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | 1 Pring  |        |       |      |      | 1.07   | 0.02        | 1,34    | 0.37               | 0,02      | 1.10    |        |         |      |       |          |           | •      |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | 1        |        |       |      |      | 0,20   | 0,01        | 0,57    | 0,07               | 0.01      | 0.54    |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | Pring    |        |       |      |      |        |             |         |                    |           |         |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       | •       |       |
|         | La       |        |       |      |      |        |             |         |                    |           |         | \$8,22 | 23,50   | 1,47 | 4.02  | 6.92     | 1.19      | 0.01   | 0.95 | 0.07 | 3,09 | 0,57   | 1.08  | 69.44 | 4.43       | 0.67              | 18.92 | 0.96 | 4.50 |       |          |           |             |             |       |         |       |
|         | 1L Pring |        |       |      |      | 0.00   |             |         | •                  |           |         | ** **  |         | 1.00 |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | ILe      |        |       |      |      | 0,22   | 0.01        | 0,63    | 0.18               | 0.01      | 0.67    | 65,22  | 14.33   | 1,25 | 5.07  | 7.25     | 2.59      | 0.01   | 0.48 | 0,03 | 3,26 | 0.51   | 0,99  | 70,42 | 4,01       | 0,81              | 16.61 | 0.86 | 6.30 |       |          |           |             |             |       |         |       |
|         | c        |        | 67    | 0.05 |      | 0,70   | 0.02        | 0,82    | 0.41               | 0.03      | 0.90    | 56,79  | 22.72   | 1,58 | 10,07 | 3.47     | 0.75      | 0.23   | 0.58 | 0.82 | 2,20 | 0,79   | 1.01  | 77.49 | 4,35       | 0,62              | 8,95  | 1.34 | 6.24 | 1358  | 1394     | 1410      | 1429        | 1273        | 1305  | 1321    | 1     |
|         | Ъ        |        | •     | 0,19 |      | 1.82   | 0.05        | 1,16    | 0,86               | 0.02      | 1.55    |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | IU       |        | • •   | 0.05 | 0,16 | i 0.39 | 0,01        | 0,92    | 0.07               | 0.01      | 0.92    | 51.89  | 30,51   | 1,36 | 2,23  | 7,20     | 1.09      | 0.07   | 0.83 | 1.26 | 2.60 | 0.96   | 1.22  | 78,09 | 4.37       | 1,06              | 8,02  | 0,99 | 6.25 | 1472  | 1472     | 1472      | 1472        | 1284        | 1472  | 1472    | I     |
|         | 1 Pring  |        |       |      |      | ,      |             |         |                    |           |         |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | 1        |        | 68    | 0,06 | 0,20 | 0,38   | 0.01        | 0.32    | 0,05               | 0.01      | 0.57    | 48.40  | 28.07   | 1.60 | 3.17  | 10,39    | 1,40      | 0.01   | 1.10 | 1.46 | 3.90 | 0.61   | 1.19  | 77,68 | 4.13       | 0,83              | 9,16  | 0.63 | 6,38 | 1437  | 1472     | 1472      | 1472        | 1442        | 1472  | 1472    | 14    |
|         | 17 -     |        |       | 0.03 |      |        |             |         |                    |           | 1.00    |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           | *           |             |       |         |       |
|         | IL Pring |        |       | 0,02 |      |        |             |         | 69.0               | 0,02      | 1.39    |        |         |      |       |          |           | •      |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
| •       | ILb      |        |       | 0,09 |      | 1,11   | 0,03        | 0,90    | 0,43               | 0,02      | 0.98    |        |         |      |       | _        |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | c        |        |       |      |      | 1.35   | 0.02        | 1,57    | 0,55               | 0,02      | 1.27    |        |         |      |       | -        |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | 111      |        |       |      |      | 0.12   | 0.01        | 0.41    |                    |           |         |        | •       |      |       |          |           |        |      |      | •    |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | 1 Pring  |        |       |      |      |        |             |         |                    |           |         |        |         |      |       |          |           |        |      |      |      |        | •     |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | I        |        |       |      |      | 0.10   | 0,01        | 0.53    |                    |           |         |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         |          |        |       |      |      |        |             |         |                    |           |         |        |         |      |       |          |           |        |      |      |      |        |       |       |            | -                 |       |      |      |       |          |           |             |             |       |         |       |
|         | lLa      |        |       |      |      |        |             |         | 1.01               | 0,03      | 1,58    |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | 11.6     |        |       |      |      |        |             |         |                    |           |         | ·      |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         |          |        |       |      |      |        |             |         |                    |           |         |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | ×        |        |       |      |      |        |             |         |                    |           |         |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | y        |        |       |      |      |        |             |         |                    |           |         |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         |          |        |       |      |      |        |             |         |                    |           |         |        |         |      |       |          |           |        |      |      | '    |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         |          |        | 1     |      |      |        |             |         |                    |           |         |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | c        |        |       |      | •    |        |             |         |                    |           |         |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |
|         | -        |        |       |      |      |        |             |         |                    |           |         |        |         |      |       |          |           |        |      |      |      |        |       |       |            |                   |       |      |      |       |          |           |             |             |       |         |       |

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|                 | •                                   | EQM            | (LC.L | P '  | ct,  | RA'               | wsulfuri<br>—— % — | FORMS   | WASI    | 12D SULFU<br>% | R FORMS |              |       |      |       | MINERAL | ANALY515 ( | OF A511 — |      |      |      | 1       | _     |       | - ULTIMAT | A.D.<br>TE ANALYS | IS    |            | _    |       | ONIDIZING | FU:        | SION ANALY         | SIS OF ASH              |       | REDIVITY |     |
|-----------------|-------------------------------------|----------------|-------|------|------|-------------------|--------------------|---------|---------|----------------|---------|--------------|-------|------|-------|---------|------------|-----------|------|------|------|---------|-------|-------|-----------|-------------------|-------|------------|------|-------|-----------|------------|--------------------|-------------------------|-------|----------|-----|
| DRILL-HOLE<br># | SEAM                                | MOIST'R<br>(%) |       | (%)  | (%)  | Pyritie           | A.D<br>Salfate     | Organie | Fyritie | A.D<br>Sulfate | Organic | <b>\$101</b> | A1103 | 1102 | Fe2OJ | C10     | MgO<br>(%) | N=20      | N20  | 1205 | 201  | %Undet. | *1120 | %C    | %н        | %N<br>(%)         | %ASII | <b>%</b> S | %0   | Init. | Soft.     | Irmls,<br> | Fluid<br>——— (Tem; | נהוג.<br>יו <i>ה</i> כ) | Soft. | Hends.   | 214 |
|                 | IU<br>I Ping<br>1                   |                |       |      |      |                   |                    |         | •       |                |         |              |       |      |       |         |            |           |      |      |      |         |       |       |           |                   | •     |            |      |       |           |            |                    | ,                       |       |          |     |
|                 |                                     |                |       | •    |      |                   |                    |         |         |                | •       |              |       |      |       |         |            |           |      |      |      |         |       |       |           |                   |       |            |      |       |           |            |                    |                         |       |          |     |
|                 | c upr<br>c pring                    |                | 73    | 0.06 |      |                   |                    |         | 0.40    | 0,01           | 1,14    | 50.59        | 26,22 | 2.00 | 7.78  | 5.56    | 2,03       | 0.07      | 0,89 | 0,99 | 3.17 | 0.70    | 0.80  | 76.57 | 4.11      | 0.92              | 11.14 | 1.55       | 4.91 |       |           |            |                    |                         |       |          |     |
|                 | c                                   |                | 70    | 0.05 |      | 1.54              | 0.05               | 0.93    | 0.58    | 0,02           | 1.18    | 47,36        | 25.99 | 2.05 | 11.91 | 5,19    | 1.95       | , 0,10    | 1.09 | 0,98 | 2.67 | 0.71    | 0.97  | 76.89 | 4,09      | 0.94              | 11.07 | 1,78       | 4.26 |       |           |            |                    |                         |       |          |     |
|                 | 1U<br>I Prine                       | 2.7            | 68    | 0.06 | 0.23 | 0.91              | 0.01               | 1.21    | 0,35    | 0,01           | 1.11    | 45,68        | 27.79 | 1.64 | 9.15  | 7,24    | 1.20       | 0,01      | 0.94 | 1.48 | 4.16 | 0.72    | 1.08  | 78.39 | 4,01      | 1.01              | 8,50  | 1,47 .     | 6.54 | 1279  | 1342      | 1373       | 1416               | 1231                    | 1323  | 1342     |     |
|                 | 1                                   | 2.7            |       | 0.07 | 0.34 | 0.11              | 0.01               | 0.65    | 0,08    | 0.01           | 0.63    | 48,40        | 28.07 | 1.60 | 3.17  | 10.39   | 1,40       | 0,01      | 1.10 | 1.46 | 3.90 | 0.61    | 1.24  | 77.17 | 3,76      | 0.92              | 10,09 | 0,72       | 6.10 | 1321  | 1344      | 1373       | 1405               | 1289                    | 1308  | 1321     |     |
| ·               | 7<br>ILA<br>ILb<br>ILd              |                |       | -    |      | <sup>•</sup> 1.66 | 0.06               | 1.12    | 0.76    | 0.01<br>-      | 1.49    |              |       |      | ·     |         |            |           |      |      |      |         |       |       |           |                   |       |            |      |       |           |            |                    |                         |       |          |     |
|                 | c<br>d<br>cupr<br>cpring<br>c<br>b  |                |       |      |      |                   |                    |         |         |                |         |              |       |      |       |         |            |           |      |      |      |         |       |       |           |                   |       |            |      |       |           |            |                    |                         |       |          |     |
|                 | lŲ<br>1 Pring<br>1                  |                |       |      |      |                   |                    |         |         |                |         |              |       |      |       |         |            |           |      |      |      |         |       |       |           |                   |       |            | •    |       |           |            |                    |                         |       |          |     |
|                 | HLa<br>HL Pring<br>HLb<br>HLc       |                |       |      |      |                   |                    |         |         |                | ,       |              |       |      | J.    |         |            |           |      |      |      |         |       |       |           |                   |       |            |      |       |           |            |                    |                         |       |          |     |
|                 | iLd<br>pring<br>ILd<br>pring<br>ILd |                |       |      |      |                   |                    |         |         |                |         | X            |       |      |       |         |            |           |      |      |      |         |       | ٠     |           |                   |       | ¢          |      |       |           |            |                    |                         |       | ,        |     |
|                 |                                     |                |       |      |      |                   |                    |         |         |                |         |              |       |      |       |         |            |           |      |      |      |         |       |       |           |                   |       |            |      |       | •         |            |                    |                         |       |          |     |
|                 | N/C                                 |                |       |      |      |                   |                    |         |         |                |         |              |       |      |       |         |            |           |      |      |      |         |       |       |           |                   |       |            |      |       |           |            |                    |                         |       |          |     |
|                 | N/C                                 |                |       |      |      |                   |                    |         |         |                |         |              |       |      |       |         |            |           |      |      |      |         |       |       |           |                   |       |            |      |       |           |            |                    |                         |       |          |     |
|                 | N/C                                 |                |       |      |      |                   |                    |         |         |                |         |              |       |      |       |         |            |           |      |      |      |         |       |       |           |                   |       |            |      |       |           |            |                    |                         |       |          |     |

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|                 |                 | FOIL           |       |          |      | RAW          | SULFUR FO      | RMS          | WASI         | ED SULFUR FO         | RM15     |      |          |       |     |     |      |          |        |       | I       |       |             |     | A.D.               |      |    |      |       |        | FU     | ION ANALYSIS | OF ASIL |              |
|-----------------|-----------------|----------------|-------|----------|------|--------------|----------------|--------------|--------------|----------------------|----------|------|----------|-------|-----|-----|------|----------|--------|-------|---------|-------|-------------|-----|--------------------|------|----|------|-------|--------|--------|--------------|---------|--------------|
| drill-Hole<br># | 8EAM            | MOIST'R<br>(%) | 11.41 | r<br>(%) | (%)  | <br>Pyride   | A.D<br>Sulfate | Organic      | Pyritic      | A.D<br>Sulfate Or    | \$103    | 0110 | 3 1102   | Fe2OJ | CaO | Mg0 | Nato | 120      | 1205 : | soj % | Vridet. | %1120 | %C          | WHI | ANALYSIS<br>MN (%) | KASH | %S | %0 I | Init. | Soft I | lemis. | Field        |         | Hrmis. Fluid |
|                 |                 |                |       |          |      | -            | ,              | -            | -            |                      |          |      | <u>.</u> |       |     | ,   |      | <b>.</b> |        |       |         |       | <del></del> |     | \ <i>m</i>         |      |    |      |       |        |        | (1 t m)( 1   |         |              |
|                 | IU<br>1 Prtng   |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 | 1               |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 |                 |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 | lLa<br>1L pring |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         | -            |
|                 | ILb             |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         | ~     |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 |                 |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 |                 |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 | 7.              |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 | N/C             |                |       |          |      |              |                | -            |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 | N/C             |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        | ٠            |         |              |
|                 |                 |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 | c               |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 | c prtg<br>c     |                |       |          |      | 0,99         | 0.03           | 1.01         | 0.55         | 0.02 0.1             | 15       |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      | •  |      |       |        |        |              |         | ¥            |
|                 | 1               | 3.3            |       |          | 0.52 | 0.82<br>1.21 | 0.02<br>0.01   | 0.82<br>1.35 | 0.55<br>0.81 | 0.02 0.5             | 94<br>16 |      |          |       |     |     | ,    |          |        |       |         |       |             |     |                    | بر   |    |      |       |        |        |              |         |              |
|                 | IL              |                |       |          |      |              |                |              | 0.92         | 0.03 0.3             | 57       |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              | •       |              |
|                 | 1<br>1          |                |       |          |      | 1,67         | 0.01           | 1,47         | 1.24<br>1.17 | 0.02 0.1<br>0.01 0.1 | 19<br>54 |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 |                 |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 |                 |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 | 7<br>c          | 2.2            |       |          |      | 0.95         | 0.01           | 0.85         | 0.55<br>0.06 | 0.02 1.<br>0.02 1.   | 35<br>34 |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 | 1U<br>1 Pring   |                |       |          |      | 0.20         | 0.01           | 0.68         | 0.06         | 0.02 0.              | 77       |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 | l<br>ILa        | 2.5            |       |          | 0.17 | 0.23         | 0.01           | 0.52         | 0.14         | 0.02 0.              | 12       |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 | ?<br>1Ld upr    |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |
|                 | ILd lwr         | 2.5            |       |          | 0.02 | 0.49         | 0.01           | 0.17         |              |                      | •        |      |          |       |     |     |      |          |        |       |         |       | 0           |     |                    |      |    |      |       |        |        |              |         |              |
| r               |                 |                |       |          |      |              |                |              |              |                      |          |      |          |       |     |     |      |          |        |       |         |       |             |     |                    |      |    |      |       |        |        |              |         |              |

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| •          |              |        |       |     |     | RA      | W SULFUR | FORMS    | WAS     | HIED SULFUR FORMS |       |       |      |       |         |           |               |     |      |      | 1       | 1    |    |          | AD.       |      |    |    | 1    |          | F       | USION ANAL | YSIS OF ASI | I    |           | -     |
|------------|--------------|--------|-------|-----|-----|---------|----------|----------|---------|-------------------|-------|-------|------|-------|---------|-----------|---------------|-----|------|------|---------|------|----|----------|-----------|------|----|----|------|----------|---------|------------|-------------|------|-----------|-------|
|            |              | EQM    | ILG.L | P   | CL  |         | %        |          | -       |                   | -     | —     |      |       | - MINER | IAL ANALY | 515 OF ASII - |     |      |      |         | -    |    | - ULTIMA | TE ANALÝS | 15   |    | -  | -    | OXIDIZIN | /G      |            |             |      | - REDUCIN | C     |
| DRILL-HOLE | <b>БЕЛ</b> М | MOISTR |       |     |     |         | A.D      | <u> </u> | _       | A.D               | \$102 | A1103 | 1103 | Fe203 | C±0     | MgO       | N#20          | 120 | P205 | \$03 | %Undet. | %100 | %C | %1       | 4N        | %ASH | ** | %0 | Init | Soft     | Hernis. | Finid      | Init.       | Soft | liemls.   | Fluid |
|            |              | (%)    |       | (%) | (%) | Pyritic | Sulfate  | Organic  | Pyritie | Sulfate Organic   |       |       |      |       |         | (%)       | -             |     |      |      |         |      |    |          | (%)       |      |    |    |      |          |         | (Te        | ար C) ——    |      |           |       |
|            |              |        |       |     |     |         |          |          |         |                   |       |       |      |       |         |           |               |     |      |      |         |      |    |          |           |      |    |    |      |          |         |            |             |      |           |       |

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0.22 1.93 0.06 1.35 0.55 0.02 0.98

|      | 0,83 | 0.02 | 1,04 | 0,30 | 0,02 | 0.93 |
|------|------|------|------|------|------|------|
|      | 0.02 | 0.01 | 0,11 | •    |      |      |
| 0.01 | 0,16 | 0.01 | 0,46 | 0,03 | 0,01 | 0.50 |
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1.84 0.04 1.41 0.79 0.03 1.08

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| f                       | RAW SULFUR FORMS WASHED SULFUR FORMS           | · · ·                                                   | A.D.                               |                                              |
|-------------------------|------------------------------------------------|---------------------------------------------------------|------------------------------------|----------------------------------------------|
| EQM H.G.L P CL          |                                                |                                                         | ULTIMATE ANALYSIS                  | OXIDIZING REDUCING                           |
| DRILL-HOLE SEAM MOIST'R |                                                | 5102 A1203 T102 Fe203 CaO MgO Na20 K20 P205 503 Wilnder | %1120 %C %11 ' %N %ASH %S %O Init. | Soft, Hends, Fluid fait, Soft, flemls, Fluid |
| # (%) (%) (%) Fy        | yritic Sulfate Organic Pyritic Sulfate Organic | (%)                                                     | ······ (%) ······                  | (Temp C)                                     |

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|      |      | 1.09 | 0.01 | 1.10 | 0.47 | 0.01 ( | 0.79 |  | i |  |  |  |  |  |  |
|------|------|------|------|------|------|--------|------|--|---|--|--|--|--|--|--|
| 0.17 | 0.01 | 0.72 | 0.02 | 0.76 | 0.22 | 0.01   | 0.66 |  |   |  |  |  |  |  |  |
|      |      | 0.03 | 0.01 | 0.38 | 0.03 | 0.01   | 0.43 |  |   |  |  |  |  |  |  |

1,10 0,01 1.04 0.64 0.01 0.83 0,77 0,01 0,79 0,69 0,01 0.98

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| 1/119M03323 |      |                       |                |              |              |              |                                     |                    |                     |                |                |              |               |                 |                            |              |              |              |              |              |              |                |               |                                  |               |              |              | •            |                   |              | ·                           |                                    |              |                   | I             | )21W _ |
|-------------|------|-----------------------|----------------|--------------|--------------|--------------|-------------------------------------|--------------------|---------------------|----------------|----------------|--------------|---------------|-----------------|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|---------------|----------------------------------|---------------|--------------|--------------|--------------|-------------------|--------------|-----------------------------|------------------------------------|--------------|-------------------|---------------|--------|
| DRILL-HOLE  | SEAN | EQM<br>MOIST'R<br>(%) | ILGL           | P<br>(%)     | CL<br>(%)    | RAW SULF<br> | UR FORALS<br>5<br>D,<br>ate Organic | WASH<br><br>Pyride | ED SULFUR FORMS<br> | 5(02           | Alioj          | T102         | Fe2O3         | MINERAL.<br>CaO | analysis<br>Mgo<br>— (%) — | 0FA511       | K20          | <b>P2O5</b>  | 503          | %Undet.      | ×110         | %C             | ULTIMA<br>%11 | A.D.<br>TE ANALNS<br>%N .<br>(%) | 115<br>%A511  | %S           | <br>%0       |              | DXIDIZING<br>Boft | IIemia.      | SION ANALY<br>Fluid<br>(Tem | 「SIS OF ASII<br>Init_<br>いわ C) ――― | <br>Soft     | REDUCING<br>Hrmis | i) ald        |        |
|             |      |                       | 68,67          | 0.09         | 0,18         |              |                                     |                    |                     | 52.74          | 25.31          | 1.64         | 5.95          | 6,93            | 1.44                       | 0.07         | 0.83         | 0.93         | 3.36         | 0.82         | 1.08         | 75.32          | 4.16          | 0.86                             | 11.83         | 1.09         | 5.76         | 1373         | 1405              | 1420         | 1439                        | 1304                               | 1376         | 1386              | 1413          |        |
|             |      |                       | 73,00<br>66,00 | 0,22<br>0,02 | 0.52<br>0.01 |              |                                     |                    |                     | 65.22<br>45.68 | 30.51<br>14,33 | 2,05<br>1,25 | 11.91<br>2.23 | 10.39<br>3,47   | 2.59<br>0,75               | 0,23<br>0,01 | 1.10<br>0.37 | 1.48<br>0.03 | 4.62<br>2.20 | 2.00<br>0.51 | 1.24<br>0.80 | 78_39<br>69,44 | 4,43<br>3,76  | 1,06<br>0,62                     | 18.92<br>8,02 | 1.78<br>0,62 | 6.54<br>4.26 | 1472<br>1279 | 1472<br>1342      | 1472<br>1373 | 1472<br>1405                | 1442<br>1231                       | 1472<br>1305 | 1472<br>1321      | 1472<br>1363- |        |

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### TELKWA PROJECT - COAL QUALITY SUMMARY

PIT #3 Composited seams - Raw and Washed results, reported on an A.D. basis

| DRILL-HOLE<br># | SEAM   | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>( | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(m) | RESIDUAL<br>Raw<br>( | MOISTURE<br>Clean<br>%) | Ai<br>Raw<br>(* | SH<br>Clean<br>%) | VOLATIL)<br>Raw<br>(? | E MATTER<br>Clean<br>%) | FIXED (<br>Raw<br>(? | CARBON<br>Clean<br>%) | CALORIE<br>Raw<br>(M. | IC VALUE<br>Clean<br>J/kg) | SUI<br>Raw | PHUR<br>Clean<br>%) | . YIELD<br>(%) | SPEC<br>GRA<br>Raw<br>(g/cc) | CIFIC<br>VITY<br>Wshblty<br>(g/ce) | F.S.I. |
|-----------------|--------|------------------------|------------------------|-------------------------|-------------------------|----------------------|-------------------------|-----------------|-------------------|-----------------------|-------------------------|----------------------|-----------------------|-----------------------|----------------------------|------------|---------------------|----------------|------------------------------|------------------------------------|--------|
| T93R-01C        | 3U/7U? |                        | 19.39                  | 20,43                   | 1.04                    | 1.14                 | 1.49                    | 14.73           | 8.28              |                       | 31.10                   |                      | 59.13                 |                       | 30.98                      | 1.26       | 1 20                | 99 69          | 1.42                         |                                    |        |
|                 | 3L7L7  |                        | 20.82                  | 21.10                   | 0.28                    |                      |                         |                 |                   |                       |                         |                      | 07.10                 |                       | 20,20                      | 1.20       | 1,23                | aa.ua          | 1,43                         |                                    |        |
|                 | 2/67   |                        | 27.54                  | 29,67                   | 2,13                    | 0.82                 | 1.02                    | 12,64           | 5,99              | 28.24                 | 32.40                   | 58,30                | 60.59                 | 27.09                 | 31.79                      | 1.69       | 1.19                | 87.22          | 1.40                         |                                    | 1.5    |
| T93R-40C        | 2      | 28                     | 9.43                   | 9.61                    | 0.18                    |                      |                         |                 |                   |                       |                         |                      |                       |                       |                            |            |                     |                |                              |                                    |        |
|                 | 5/87   | 99                     | 10.91                  | 13.15                   | 2.24                    | 0.72                 | 1 80                    | 13 57           | 7 58              | 20.73                 | 27.74                   | 55.00                | 62 00                 | 20.49                 | 31.00                      | 1.07       |                     |                |                              |                                    |        |
|                 | 4/77   | 100                    | 29.39                  | 30.35                   | 0.96                    | 0.38                 | 1.85                    | 18.57           | 2 25              | 25,75                 | 27.74                   | 50.50                | 60.00                 | 29,40                 | 31.00                      | 1.07       | 0.95                | 88.78          | 1,41                         |                                    | 1.5    |
|                 | 2      | 100                    | 34.34                  | 34 49                   | 0.15                    | 0,30                 | 1.03                    | 21 12           | 0.05              | 20,20                 | 20.71                   | 32.04                | 00,33                 |                       | 30.87                      | 2,31       | 1.79                | 85.82          | 1.47                         |                                    |        |
|                 | ?      | 100                    | 35.59                  | 35,79                   | 0.20                    | 0.44                 |                         | 31.96           |                   |                       |                         |                      |                       |                       |                            |            |                     |                | 1.50<br>1.62                 |                                    |        |
|                 | 3U/6U? | 100                    | 36.62                  | 37.41                   | 0,79                    | 0.32                 |                         | 28,30           |                   |                       |                         |                      |                       |                       |                            | 1.95       |                     |                | 1.58                         |                                    |        |
|                 | Pring  | 100                    | 37.41                  | 37.69                   | 0.28                    | 0.36                 |                         | 71,74           |                   |                       |                         |                      |                       |                       |                            | 5.14       |                     |                | 2.23                         |                                    |        |
|                 | 3L/6L? | 96                     | 37.69                  | 38,51                   | 0.82                    | 0.55                 | 2.84                    | 9.62            | 5.37              |                       | 24.51                   |                      | 67.28                 |                       | 31.39                      | 0.67       | 0.57                | 92.18          | 1.37                         |                                    |        |
|                 | 3/6?   |                        |                        |                         | 1.89                    | 0,77                 | 0.92                    | 30,76           | 8.98              | 23,94                 | 28.81                   | 44.53                | 61.29                 | 22.75                 | 30.77                      | 2.21       | 1.00                | 64,47          | 1.61                         | •                                  |        |
|                 | 2/5?   | 100                    | 49,93                  | 53,05                   | 3.12                    | 0.74                 | 2.26                    | 12.50           | 5.00              | 29.22                 | 27.01                   | 57.54                | 65.73                 | 29.48                 | 31,88                      | 0.54       | 0.49                | . 88,71        | 1.40                         |                                    |        |
|                 | Pring  | 100                    | 53.05                  | 54.08                   | 1,03                    | 0.62                 |                         | 63.31           |                   |                       |                         |                      |                       |                       |                            | • 1.22     |                     |                | 2.07                         |                                    |        |
| •               | 2/4?   | 87                     | 54.08                  | 60.70                   | 6,62                    | 0.96                 | 2.12                    | 22.68           | 8.34              | 27.31                 | 27.09                   | 49.05                | 62,45                 | 25.25                 | 30.89                      | 0,76       | 0,57                | 75.22          | 1.52                         |                                    | 1.0    |
|                 | Prtng  | Nil                    | 60.70                  | 61,13                   | 0.43                    |                      |                         |                 |                   |                       |                         |                      |                       |                       |                            |            |                     |                |                              |                                    |        |
|                 | 2L?    | 93                     | 61.13                  | 61.94                   | 0,81                    | 0,68                 | 1.85                    | 17.62           | 9.89              |                       | 25,00                   |                      | 63,26                 |                       | 30.16                      | 0.82       | 0.67                | 80.70          | 1.46                         |                                    |        |

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|             |        |                 |           |             |      |          |             |                    |       | · · ·   |          |         |        | ·     |            |      |              |         | SPEC   | FIC     |        |
|-------------|--------|-----------------|-----------|-------------|------|----------|-------------|--------------------|-------|---------|----------|---------|--------|-------|------------|------|--------------|---------|--------|---------|--------|
|             | 00114  | SEAM            | DRILLED S | EAM INT'RVL | SEAM | RESIDUAL | MOISTURE    | A                  | SH    | VOLATIL | E MATTER | FIXED C | CARBON | CALOR | IFIC VALUE | SUL  | PHUR         | YIELD   | GRAV   | ПҮ      | F.S.I. |
| H RILLANGLE | oenin  | (%)             | erem (    | . un        | (m)  |          | Clean<br>%) | Kaw (              | Clean | Kaw     | Clean    | Raw     | Clean  | Ray   | Clean      | Raw  | Clean        | (24)    | Raw    | Wshbity |        |
|             |        | ()              | Ň         |             | ()   | <u> </u> |             |                    |       |         | ~•)<br>  |         | /•)    |       | 11J/Kg)    | (:   | 7 <b>e</b> } | (%)     | (g/cc) | (g/cc)  |        |
| T93R-41C    | 10     | 94              | 50.72     | 51.40       | 0,68 | 0.57     | 1.10        | 22,85              | 12.14 |         | 32.10    |         | 55.01  |       | 29.81      | 3.87 | 0.57         | 67.28   | 1.52   |         | ,      |
|             | 9      | 98              | 57.28     | 58,25       | 0.97 | 0.87     | 1.02        | 11.91              | 7.25  | . 32,83 | 35,89    | 54.39   | 56.21  |       | 32.08      | 2.52 | 0.67         | 93.61   | 1.39   |         |        |
|             | 8      | 99              | 59.69     | 61.82       | 2.13 | 1.00     | 0.93        | 13.99              | 7.92  | 30,00   | 31.39    | 55,01   | 59.76  | 29.93 | 31.43      | 2.73 | 2.45         | 87.46   | 1.42   |         |        |
|             | 7      | 98              | 75.80     | 78.52       | 2,72 | 1.14     | 1.14        | 15,98              | 7,96  | 27.19   | 30,18    | 55,69   | 60.72  | 28.15 | 31.37      | 1.05 | 2.00         | 85.60   | 1.44   |         |        |
|             | ?      | 92              | 81,58     | 81,72       | 0.14 | 0.64     | *           | 14.10              |       |         |          |         |        |       | • • • •    | 0.49 | 1.30         |         | 1.42   |         |        |
|             | സ      | 92              | 86.20     | 87.70       | 1,50 | 0,96     | 1.33        | 15,10              | 6,92  | 28.66   | 30.63    | 55,28   | 61.12  | 28.46 | 31.79      | 0.49 | 0.69         | 84.66   | 1 43   |         |        |
|             | 6L?    | 100             | 88,37     | 89.14       | 0.77 | 0.64     | 1,02        | 28,48              | 11.35 |         | 29,37    |         | 58.26  |       | 30.02      | 2.17 |              | 64.48   | 1.58   |         |        |
|             | 4?     | 100             | 94.32     | 94.91       | 0.59 | 0.63     | 0,76        | 21.57              | 8.71  |         | 31.94    |         | 58,59  |       | 31.72      | 2.89 | 2.05         | 79.54   | 1.50   |         | •      |
|             | 3U     | 63              | 111.20    | 111.52      | 0.32 | 0,62     |             | 39.22              |       |         | •        |         |        |       |            | 3.60 | 0.76         |         | 1.71   |         |        |
|             | 3 prtg |                 | 111.52    | 112.54      | 1.02 |          |             |                    |       |         |          |         |        |       | •          |      |              |         |        |         |        |
|             | 3L     | 96              | 112,54    | 113.60      | 1.06 |          | 1,04        |                    | 11.83 |         | 27.94    |         | 59,19  |       | 30.40      |      | 0.84         | 87,44   |        |         |        |
|             | 7      | 100             | 114.16    | 114.44      | 0,28 | 0,63     | 0.83        | 32.81              | 13.98 |         |          |         |        | •     | 29.31      | 1.29 | 2.33         | 52.68   | 1.63   |         | •      |
|             | ?      | 100             | 114.78    | 115.15      | 0,37 | 0.62     | 1.05        | 15,75              | 10.77 |         |          |         |        |       | 30.65      | 1,40 | 1,00         | 87,50   | 1.44   |         | •      |
|             | 2U     | 83              | 118.81    | 119.17      | 0.36 | 0.49     | 1.67        | 26.73              | 11.86 |         |          |         |        |       | 31.04      | 2.12 | 1.42         | 62,25   | 1.56   |         |        |
|             | 2      | 52              | 120.52    | 122.25      | 1.73 | 0,52     |             | 54,99              |       |         |          |         |        |       |            | 1.64 |              |         | 1.94   |         |        |
|             | ?      | 100             | 123.67    | 123,87      | 0.20 | 0.27     |             | 48.21              |       |         |          | •       |        |       |            | 0.61 |              |         | 1.83   |         |        |
|             | 2L     | 100             | 124.82    | 125.37      | 0.55 | 0.55     | 0.89        | 15,96              | 12.36 |         | 28.65    |         | 58.10  |       | 30,13      | 1.71 | 1.15         | 91.57   | 1.44   |         |        |
| T93R-42C    | 5?     | 92 <sup>´</sup> | 15,56     | 16.42       | 0,86 | 0.74     | 1,41        | 10.20              | 5.80  |         | 30.48    |         | 62.31  |       | 32.05      | 1 04 | 0.88         | 91.55   | 137    |         |        |
|             | Pring  |                 | 16,42     | 17.42       | 1.00 | 0,81     |             | 86,42              |       |         |          |         |        |       |            | 1.04 | 0,00         | 51.05   | 2 57   |         |        |
|             | 4?     | 94              | 17.42     | 18.23       | 0,81 | 0,78     | 0.86        | 11.67              | 5.96  |         | 32.98    |         | 60.20  |       | 32.80      | 1.30 | 1 26         | . 93.21 | 1 39   |         |        |
|             | 3U?    | 100             | 33,42     | 33,91       | 0,49 | 0.68     | 0.77        | 21.20              | 14.81 |         | 30.35    |         | 54.07  |       | 29.99      | 2.88 | 2.55         | 86.93   | 1.50   |         |        |
|             | 3L?    | 91              | 35,12     | 36,28       | 1.16 | 0.78     | 1.06        | 20.17              | 12.94 |         | 27.46    |         | 58.54  |       | 29.88      | 0.84 | 0.84         | 87 34   | 1 49   |         |        |
|             | ?      | 98              | 39.13     | 39.59       | 0.46 | 0,75     | 0,85        | 37.54              | 13,73 |         | 27,67    |         | 57.75  |       | 29.71      | 2.71 | 1.99         | 56.70   | 1.69   |         |        |
|             | 2?     | 41              | 43.47     | 43,96       | 0.49 | 0.75     |             | 23.98              |       |         |          |         |        |       |            | 2,16 |              | ,       | 1.53   |         |        |
|             | Pring  |                 | 43,96     | 44,22       | 0.26 |          |             |                    |       |         |          |         |        |       |            |      |              |         | 1100   |         |        |
|             | 2?     | 24              | 44.22     | 45.04       | 0.82 | 0.95     |             | <sup>•</sup> 20.41 |       |         |          |         |        |       |            | 1.23 |              |         | 1.49   |         |        |

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File Name; TK94PIT3, XLS

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| DRILL-HOLE<br># | SEAM   | SEAM<br>REC'VRY<br>(%) | DRILLED S<br>From<br>( | EAM INT'RVL<br>To<br>m) | SEAM<br>THICKN'S<br>(11) | RESIDUAL<br>Raw<br>(7 | MOISTURE<br>Clean<br>4) | A<br>Raw<br>(? | SH<br>Clean<br>%) | VOLATIL)<br>Raw<br>(7 | E MATTER<br>Clean<br>%) | FIXED C<br>Raw<br>(? | CARBON<br>Clean<br>4) | CALOR<br>Ran<br>(i | IFIC VALUE<br>Clean<br>MJ/kg) | SULI<br>Raw<br>(7 | PHUR<br>Clean<br>%) | VIELD<br>(%) | SPECIFIC<br>GRAVITY<br>Raw Wahbity<br>(g/cc) (g/cc) | F.S.1. |
|-----------------|--------|------------------------|------------------------|-------------------------|--------------------------|-----------------------|-------------------------|----------------|-------------------|-----------------------|-------------------------|----------------------|-----------------------|--------------------|-------------------------------|-------------------|---------------------|--------------|-----------------------------------------------------|--------|
| T93R-43C        | 3U7    | 86                     | 19.98                  | 20,27                   | 0.29                     | 1.06                  | 0.64                    | 28.25          | 21.59             | 27,05                 |                         | 43.64                |                       | 24,83              | 26.41                         | 1,20              | 1.42                | 63,21        | 1.58                                                | ,      |
|                 | 3 prtg | Nil                    | 21.29                  | 21.55                   | 0.26                     |                       |                         |                |                   |                       |                         |                      |                       |                    |                               |                   |                     |              | •                                                   |        |
|                 | 3L?    | 100                    | 21.90                  | 22.21                   | 0.31                     | 0.68                  | 0.69                    | 27,59          | 14.32             |                       |                         |                      |                       |                    | 29,49                         | 2.76              | 1.84                | 73.48        | 1,57                                                |        |
|                 | 2      | 100                    | 24.32                  | 24.71                   | 0.39                     | 0,76                  |                         | 23,40          |                   |                       |                         |                      |                       |                    |                               | 1.71              |                     |              | 1.52                                                |        |
|                 | Pring  |                        | 24.71                  | 25.01                   | 0,30                     | 0.78                  |                         | 66.16          |                   |                       |                         |                      |                       |                    |                               | 2.90              |                     |              | 2,13                                                |        |
|                 | 2      | 95                     | 25.01                  | 26,54                   | 1.53                     | 0.59                  | 1,06                    | 20,10          | 9.98              | 30,63                 | 30.88                   | 52,10                | 58,08                 | 28.12              | 30.56                         | 0,69              | 0.68                | 88.21        | 1,49                                                |        |
|                 |        |                        |                        |                         | 2.22                     |                       | 0.93                    |                | 12.31             |                       | 30,70                   | •                    | 56.06                 |                    | 30,08                         |                   | 1.01                | 73,89        |                                                     | 2.0    |
|                 | 2L?    | 97                     | 27,18                  | 27.55                   | 0.37                     | 0.86                  | 0.54                    | 87.54          | 11.51             |                       |                         |                      |                       |                    | 30.34                         | ° 2.72            | 1.27                | 70.21        | 2.60                                                |        |

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|            |                                        |                |       |                        |              | RAW                          | SULFUR                       | FORMS                        | WASH         | D SULF         | R FORMS      | · · · |       |           |       |          |            |        |      |      | -    | r     |         |       |          | 4.0         |             |      |            | 1        |          |         | THEOREMAN      |             |          |          |       |
|------------|----------------------------------------|----------------|-------|------------------------|--------------|------------------------------|------------------------------|------------------------------|--------------|----------------|--------------|-------|-------|-----------|-------|----------|------------|--------|------|------|------|-------|---------|-------|----------|-------------|-------------|------|------------|----------|----------|---------|----------------|-------------|----------|----------|-------|
|            |                                        | EQM            | H.G.L | 7                      | CL.          | -                            | %                            | *****                        |              | <b>%</b> ~     |              |       |       |           |       | UNERAL A | NALYSIS O  | F A521 |      |      | _    |       |         |       | - ULTIMA | TE ANALY    | 513         |      |            | <u> </u> | OXIDIZIN | 3       | POSICI ANALIS  | 13 UF ASI1  |          | B7DUCINO | ı     |
| DRILL-HOLE | SEAM                                   | MOIST'R<br>(%) |       | (%)                    | (%)          | Tyritie                      | A.D<br>Sulfate               | Organic                      | Tyrisk       | A.D<br>Sulfate | Organic      | 5103  | ànoj  | 7102      | ¥e103 | <u> </u> | MgO<br>(%) | N=20   | 120  | P205 | 603  | Undet | ' %IL2O | *C    | *11      | **N<br>(**) | <b>%ASH</b> | **5  | <b>%</b> 0 | ÍNJ.     | Soft.    | Tensla. | Field<br>(Temp | lak.<br>.c) | Боп.     | itonia.  | Theid |
| T93R-01C   | 3U/7U7<br>3L7L7 .<br>2/67              |                | 69.00 | 0.05                   | 0.08         | 0.77                         | 0.01                         | 0.91                         | 0.37<br>0.31 | 0.02<br>0.02   | 0.90<br>0.86 | 50.32 | 22.86 | 0.87      | 11.66 | 631      | 2.04       | 0,21   | 0.61 | 1.44 | 3.15 | 0.63  | 1.70    | 77,73 | 4,78     | 1.07        | 5.96        | 1.19 | 7.57       |          |          |         |                |             | <u> </u> |          |       |
| 793R-40C   | 9<br>5/87<br>4/77<br>9                 | 4.30           | 62.00 | 0.01<br>0.02           | 0.60         | 0.33<br>1.23                 | 0.01<br>0.02                 | 0.73<br>1.06                 | 0.21<br>0.60 | 0.02<br>0.03   | 0.72<br>1.16 | 54.73 | 30,39 | 1.89<br>, | 5,77  | 2.46     | 0.67       | 0.15   | 0.84 | 0.98 | 1.82 | 0.30  | 2.15    | 75.97 | 4.42     | 0.82        | 9.10        | 0.56 | 6.98       |          |          |         |                |             |          |          |       |
|            | 7<br>3U/6U7<br>Pring<br>3L/6L?<br>3/6? |                |       | 0.02 '<br>0.12<br>0.17 |              | 1.17<br>3.09<br>0.11<br>1.24 | 0.06<br>0.02<br>0.01<br>0.02 | 0,72<br>2.03<br>2.49<br>0.95 | 0.05<br>0.35 | 0.01<br>0.01   | 0.51<br>0.64 |       | •     |           |       |          |            |        |      |      |      |       |         |       |          |             |             |      |            |          |          |         |                |             |          |          |       |
|            | 2/57<br>Pring<br>2/4?<br>Pring<br>2L?  | 3.67<br>3.20   | 89.00 | 0.06<br>0.06<br>0.01   | 0.95<br>1.03 | 0.06<br>0.87<br>0.24         | 0.01<br>0.01<br>0.01         | 0.48<br>0.34<br>0.52         | 0.02<br>0.07 | 0.01<br>0.01   | 0.47<br>0.50 | 60,64 | 28.67 | 1.45      | 1.96  | 3.08     | 0.38       | 0.19   | 0.55 | 1.48 | 0.95 | 0.65  | 2.42    | 75.19 | 4.40     | 1.01        | 8.25        | 0.57 | 8,16       | >1472    | >1472    | >1472   | >1472          | >1472       | >1472    | >1472    | >1472 |

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|------------|-----------------|----------------|-------|-----|--------------|---------|------------------|---------|------|--------------|---------------------------------------|------|-------|-----------|----------|-----------|----------|---------|-----|------|-----------|-------|--------|---|------------|--------|------|----------|-----------|-------------------|----------|--------------------|-------|------|------|---|
|            |                 | ZQM            | H.C.L | •   | cr.          | •••••   | ····· %          | ·····   |      |              | · · · · · · · · · · · · · · · · · · · | 1    |       |           |          | - MINERAL | ANALYSIS | OF AS11 | 120 |      |           |       |        | U | LTINGATE A | ALY515 | <br> |          | OXIDIZING | 3                 | Track    |                    |       | REDU | KING |   |
| DRILL-HOLE | 8EAM            | MOIST'R<br>(%) | ¥     | (%) | <b>C</b> 4)  | l'ynkie | Salísi           | Organic | דירל | le S         | affaie Organic                        | 5102 | . ADO | ыр ти<br> | 01 7410. |           | (%)      |         | КЮ  | 1205 | <b>NU</b> | UB4CL | - UU 7 |   | ~          | 6)     |      | INC      | Solf      | \$1 <b>CH</b> ALL |          | נז<br>(לרווון), C) |       |      |      |   |
|            | 10              | 3.90           |       |     | 0.54         | 2.17    | 7 0.02           | 1.68    |      | 0,92         | 0.03 1.50                             |      |       | -         |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            | 9<br>8<br>7     | 4,00           |       |     | 0.47<br>0.51 | 1.3     | 7 0.02<br>1 0.01 | 1.34    | 1    | 0.56<br>0.15 | 0.02 0.74                             |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            | 7<br>607        |                |       |     | 0.66         | 0.0     | 9 0.0            | 0.40    |      | 0,02         | <01 0.48                              |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            | 6L7<br>47<br>3U |                |       |     |              |         | 2 0.04           |         |      | 1.01         | 0.02 1.02                             |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            | JL              |                |       |     |              |         |                  |         | 1    | 0.24         | 0.01 0.59                             |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            | 7<br>1<br>2U    |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            | 2<br>?          |                |       |     |              |         |                  |         |      | 0.44         | 0.01 0.71                             |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            | 46              |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            | 57<br>Pring     |                |       |     |              | 0.3     | 0 0.0<br>ia 0.0  | 0.74    |      | 0.08         | 0.01 0.79                             |      |       | •         |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            | 3U7<br>3L7      |                |       |     |              | 0.4     | 0.0              | 1 0.43  |      | 1.56<br>0.29 | 0.01 0.98<br>0.01 0.54                |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
| •          | ?<br>27         |                |       |     |              |         |                  |         |      | 1.16         | 0.04 0.79                             |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          | -                  |       |      |      |   |
|            | 27              |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            |                 | •              |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   | •        |                    |       |      |      |   |
|            |                 |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           |          |         |     |      |           |       |        |   | •          |        |      |          |           |                   |          |                    |       |      |      |   |
|            |                 |                |       |     |              | •       |                  |         |      |              |                                       |      | ~     |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            |                 |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           |          | •       |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            |                 |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          | •                  |       |      |      |   |
| •          |                 |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           |          |         |     |      |           |       | •      |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            |                 |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            |                 |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           | ,        |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            |                 |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            |                 |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      | • |
|            |                 |                |       |     |              |         |                  |         |      |              |                                       |      |       |           | •        |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            |                 |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           |          |         |     |      |           |       |        |   |            | -      |      |          |           |                   |          |                    |       |      |      |   |
|            |                 |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           | •        |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            |                 |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          |           |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |
|            |                 |                |       |     |              |         |                  |         |      |              |                                       |      |       |           |          | •         |          |         |     |      |           |       |        |   |            |        |      |          |           |                   |          |                    |       |      |      |   |

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|------------|--------|---------|-------|------|------|--------|---------|-----------|----------------|---------------|----------|---------|-------|-------|------|-------|---------|-----------|------|------|------|------|--------|-------|-------|-----------|----------|---------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|--------|----------|-------------|---------|-------|----------|-------|
|            |        |         |       |      |      | RA     | W SULFU | r forms   | W,             | <b>LSITED</b> | SULTUR   | PORMS   |       |       |      |       |         |           |      |      |      |      |        |       |       |           | A.D.     |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |           |        | - FUSION | ANALYSIS OF | 7 A 511 |       |          |       |
|            |        | ZQM     | ILGL  | P    | CL.  |        | %       | <u> </u>  |                |               | -*-      | _       |       |       |      |       | MINERAL | NALYSIS O | PA8U |      |      |      |        | -     |       | - OLTIMAT | TE ANALY | 515     |      | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      | OXIDIZINO |        |          |             |         | ×     | EDL'CING |       |
| DRILL-HOLE | SEAM   | MOIST'R |       |      |      |        | A.D     |           |                |               | ~ A.D. — |         | 5102  | A203  | TIO2 | Fr203 | C.O     | MgO       | Na2O | 1010 | 7205 | \$03 | Undet. | ×1120 | %C    | \$611     | %N       | %A5H    | %5   | *0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | lat. | Seft,     | Hemis. | Fhuid    |             | Init    | Soft. | Ifemis.  | Flaid |
| <b>#</b> . |        | (%)     |       | (%)  | (%)  | Pyride | Sullei  | e Organie | <b>i'yı</b> ld | e             | Sulfate  | Organie |       |       |      |       |         | (%)       |      |      |      |      |        |       |       |           | (%)      |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |           |        |          | (Tanji, C)  |         |       |          |       |
|            |        |         |       |      |      |        |         |           |                |               |          |         |       |       |      |       |         |           | ,    |      |      |      |        |       |       |           |          |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |           |        |          |             |         |       |          |       |
|            |        | • ••    |       |      |      |        |         |           |                |               |          |         |       |       |      |       |         |           |      |      |      |      |        |       |       |           |          |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |           |        |          |             |         |       |          |       |
|            | 307    | 3.40    |       | 0.01 | 0.51 | 0.5    | 5 0.01  | 0.64      |                | 0.79          | 0.02     | 0.6     |       |       |      |       |         |           |      |      |      |      |        |       |       |           |          |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |           |        |          |             |         |       |          |       |
|            | 3 prtg |         |       |      |      |        |         |           |                |               |          |         | •     |       |      |       |         |           |      |      |      |      |        |       |       |           |          |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |           |        |          |             |         |       |          |       |
|            | 3L7    |         |       | 0.01 |      | 13     | 0 0.07  | 2 1.24    |                | 1.00          | 0.02     | 0.82    |       |       |      |       |         |           |      | •    |      |      |        |       |       |           |          |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |           |        |          |             |         |       |          |       |
|            |        |         |       |      |      |        |         |           |                |               |          |         |       |       |      |       |         |           |      |      |      |      |        |       |       |           |          |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |           |        |          |             |         |       |          |       |
|            | 2      |         |       |      |      |        |         |           |                |               |          |         |       |       |      |       |         |           |      |      |      |      |        |       |       |           |          |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |           |        |          |             |         |       |          |       |
|            | Pring  |         |       |      |      | 0.1    | 6 0,0   | 2.74      |                |               |          |         |       |       |      |       |         |           |      |      |      |      |        |       |       |           |          |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |           |        |          |             |         |       |          |       |
|            | 2      | 3.30    |       | 0.02 | 0.80 |        |         |           |                | 0.02          | 0.01     | 0.65    |       |       |      |       |         |           |      |      |      |      |        |       |       |           |          |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |           |        |          |             |         |       |          |       |
|            | -      | 0.00    | 01.00 | 0.00 | ,    |        |         |           |                | 0.02          | 0.01     | A 77    | 19.91 | ni // | 1.05 | 4.10  |         | A 93      |      | a /a |      |      |        |       | -     |           |          |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |           |        |          |             |         |       |          |       |
|            |        |         | 71.00 | 0.02 |      |        |         |           |                | ديره          | 0.01     | V.47    | Q4.44 | 24.07 | 1.05 | 4.10  | 2.04    | 0.83      | 0.22 | 0.60 | 1,46 | 1.61 | 0.54   | 1.52  | 72.49 | 4,45      | 1.02     | 12.29 - | 1.01 | 7.12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |           |        |          |             |         |       |          |       |
|            | 21.7   |         |       | 0.01 |      |        |         |           |                | 174           | 0.01     | 0.57    |       |       |      |       |         |           |      |      |      |      |        |       |       |           |          |         |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |           |        |          |             |         |       |          |       |

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| HOLE      | SFAM    | SAMDI G     | DRILLED                   | INTERVAL | SAMPLE | REJECT | MOIST  | TURE                            |           | ASH       |       | то   | TAL SUI   | LFUR   | SU      | LFUR FO  | RMS     | SPECIFI                           | (C           | Cal   | e'd %ages by<br>rock volume | ;            | Calc'd %<br>rock |
|-----------|---------|-------------|---------------------------|----------|--------|--------|--------|---------------------------------|-----------|-----------|-------|------|-----------|--------|---------|----------|---------|-----------------------------------|--------------|-------|-----------------------------|--------------|------------------|
| HOLE<br># | SEAM    | SAMELE<br># | FIOM                      | (m)      | (m)    | (gms)  | A.R.   | • • • • • • • • • • • • • • • • | A.R.      | %<br>A.D. | D.B.  | A.R. | %<br>A.D. | . D.B. |         | %<br>A.D |         | GRAVII<br>(Meas <sup>+</sup> d) ( | Y<br>Calc'd) | Enter | sum<br>0.00                 | prop<br>0.00 | sum<br>0.00      |
|           |         | <u></u> ,   | · · · · · · · · · · · · · |          |        |        |        |                                 | <u></u> . |           | ·     |      |           |        | Pyritic | Sulfate  | Organic | ( <b>/</b> (                      |              |       |                             |              |                  |
| T92R-40C  | I Rf    | I           | 25.40                     | 25.62    | 0.22   | 1534.2 | 2,94   | 0.41                            | 87.69     | 89.97     | 90.34 | 0.07 | 0.07      | 0.07   |         |          |         |                                   | 2,74         |       |                             |              |                  |
|           | 1       | 2           | 25.62                     | 26.97    | 1.35   | 5512,9 | 8.11   | 0,91                            | 12,21     | 13.17     | 13,29 | 0.73 | 0.79      | 0.80   |         |          |         |                                   | 1,41         |       |                             |              |                  |
|           | 1       | 3           | 26,97                     | 27.96    | 0.99   | 5038.4 | 9.54   | 0.79                            | 10,81     | 11.85     | 11.94 | 0.40 | 0.44      | 0.44   |         |          |         |                                   | 1.40         |       |                             |              |                  |
|           | 1       | 4&5         | 27,96                     | 29.46    | 1.50   | 9071.3 | 5.46   | 0,86                            | 20.62     | 21,62     | 21.81 | 0.73 | 0.77      | 0.78   | •       |          |         |                                   | 1.49         |       |                             |              |                  |
|           | 1       | 6           | 29.46                     | 30,18    | 0.72   | 3703.9 | 5.16   | 0,84                            | 8.47      | 8.86      | 8.94  | 0.55 | 0.58      | 0.58   |         |          |         |                                   | 1,37         |       |                             |              |                  |
|           | 1 Flr   | 7           | 30,18                     | 30.40    | 0,22   | 2121.7 | 3.27   | 0.97                            | 76.43     | 78,25     | 79.02 | 0.15 | 0.15      | 0,15   |         |          |         |                                   | 2.39         |       |                             | •            |                  |
|           | 1La     | 8&9         | 30.40                     | 30.83    | 0.43   | 2643,8 | 3.48   | 0.90                            | 33.15     | 34.03     | 34.34 | 0.47 | 0.48      | 0.48   |         |          |         |                                   | 1.62         |       |                             |              |                  |
|           | 1 Flr   | 10          | 30.83                     | 31.10    | 0.27   | 2135,4 | 2.54   | 0.70                            | 73.00     | 74.38     | 74.90 | 0.08 | 0.08      | 0,08   |         |          |         |                                   | 2.30         |       |                             |              |                  |
|           |         |             |                           |          |        |        |        |                                 |           |           |       |      |           |        |         |          |         |                                   |              |       |                             |              |                  |
| 193R-01C  | 3U      | 1           | 19,39                     | 20.43    | 1.04   | 1430.8 | 10.79  | 1.14                            | 13,29     | 14,73     | 14,90 | 1.14 | 1.26      | 1.27   | 0.58    | 0.04     | 0.64    |                                   | 1.42         |       |                             |              |                  |
|           | 3L.     | —           | 20.82                     | 21.10    | 0.28   | -      |        |                                 |           |           |       |      |           |        |         | •        |         |                                   |              |       |                             |              |                  |
|           | 2       | 3           | 27.22                     | 27.54    | 0,32   | 1096.1 | 10.51  | 0.97                            | 25.33     | 28.03     | 28.30 | 3.86 | 4.27      | 4,31   |         |          |         |                                   | 1.55         |       |                             |              |                  |
|           | 2       | 2           | 27.54                     | 28.25    | 0,71   | 3178.7 | 8.54   | 1.19                            | 6.98      | 7.54      | 7.63  | 1.57 | 1.70      | 1.72   |         |          |         |                                   | 1.36         |       |                             |              |                  |
|           | 2       | 4&5         | 28.25                     | 29.67    | 1.42   | 6836,0 | 9.36   | 1,14                            | 5.86      | 6.39      | 6.46  | 0.60 | 0.65      | 0.66   |         |          |         |                                   | 1.35         |       |                             |              |                  |
|           | 2 Flr   | 6           | 29.67                     | 29.96    | 0.29   | 1500,2 | 2.81   | 0,82                            | 82,33     | 84.01     | 84.70 | 0.13 | 0.13      | 0.13   |         |          |         |                                   | 2.55         |       |                             |              |                  |
|           | - 4     |             |                           |          |        |        |        |                                 |           |           |       |      |           |        |         |          |         |                                   |              |       |                             |              |                  |
| T93R-06C  | Rf      | I           | 8.25                      | 8.58     | 0.33   |        |        |                                 |           |           |       |      |           |        |         | •        |         |                                   |              |       |                             |              |                  |
|           | ?       | 2           | 8,58                      | . 8,79   | 0,21   | 1173.0 | 4.50   | 0.72                            | 30.85     | 32.07     | 32.30 | 5.13 | 5.33      | 5.37   |         |          |         |                                   | 1.60         |       |                             |              |                  |
|           | Fir     | 3           | 8,79                      | 9,00     | 0.21   |        |        |                                 |           |           |       |      |           |        |         |          |         |                                   |              |       |                             |              |                  |
|           | c Rf    | 4           | 10.00                     | 10.28    | 0.28   | 1888.6 | 3.85   | 0.73                            | 81.91     | 84.57     | 85.19 | 1.84 | 1.90      | 1.91   |         |          |         | 2,55                              | 2.55         |       | •                           |              |                  |
|           | ¢       | 5&6         | 10.28                     | 11.18    | 0.90   | 5562.6 | 4,58   | 0,70                            | 26,06     | 27.12     | 27.31 | 4.25 | 4.42      | 4.45   |         |          |         |                                   | 1.54         |       |                             |              |                  |
|           | c       | 7&8         | 11.18                     | 11.88    | 0.70   | 3926.9 | 5,50   | 0.76                            | 16.90     | 17.75     | 17.89 | 1.36 | 1.43      | 1.44   |         |          |         |                                   | 1,45         |       |                             |              |                  |
|           | CFIT    | 9           | 11,88                     | 12,15    | 0.27   | 2761.1 | 4.75   | 1,03                            | 79,91     | 83.03     | 83.89 | 1.05 | 1.09      | 1.10   |         |          |         |                                   | 2.52         |       |                             |              |                  |
|           | D       | 10          | 18.55                     | 18,83    | 0,28   | 1406.6 | 3.97 . | 0.73                            | 16,09     | 16.63     | 16,75 | 2.86 | 2.96      | 2,98   | 1,75    | 0.04     | 1,17    |                                   | 1.44         |       |                             |              |                  |
|           |         | 11          | 20.74                     | 21.01    | 0,27   | 3659,1 | 2.89   | 0.89                            | 84.25     | 85.98     | 86.75 | 2.02 | 2.06      | 2.08   |         |          |         |                                   | 2.61         |       |                             |              |                  |
|           | 10      | 12          | 21,01                     | 21.52    | 0.51   | 3057,7 | 4.84   | 0.73                            | 22.98     | 23.97     | 24.15 | 5.08 | 5,30      | 5.34   |         |          |         |                                   | 1.51         |       |                             |              |                  |
|           | 10      | 13&14       | 21.52                     | 22.88    | 1.36   | 7235.6 | 6,16   | 0.70                            | 8.73      | 9.24      | 9.31  | 1.56 | 1.65      | 1.66   |         |          |         | 1.36                              | 1.36         |       |                             |              |                  |
|           | I Pring | 15&16       | 22.88                     | 23.90    | 1.02   | 4624.8 | 3,08   | 1,03                            | 76.30     | 77,91     | 78.72 | 0.44 | 0,45      | 0.45   |         |          |         |                                   | 2,38         |       |                             |              |                  |
|           | 1       | 17          | 23.90                     | 24.19    | 0.29   | 1542.0 | 5.68   | 0.76                            | 27.60     | 29.04     | 29,26 | 0.84 | 0.88      | 0.89   |         |          |         |                                   | 1.56         |       |                             |              |                  |
|           | 1       | 18&19       | 24.19                     | 25.87    | 1.68   | 9650.3 | 6.64   | 0.80                            | 12.65     | 13.44     | 13.55 | 0.60 | 0.64      | 0.65   |         |          |         | `                                 | 1.41         |       |                             |              |                  |
|           | 1       | 20&21       | 25,87                     | 27.07    | 1.20   | 7068.1 | 5,64   | 1.02                            | 19.93     | 20.91     | 21.13 | 0.65 | 0.68      | 0.69   |         |          |         |                                   | 1.48         |       | -                           |              |                  |
|           | . I Flr | 22          | 27,07                     | 27,43    | 0.36   | 3519.9 | 2.35   | 0.72                            | 72,73     | 73.94     | 74.48 | 2,41 | 2.45      | 2.47   |         |          |         |                                   | 2.29         |       |                             |              |                  |

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|          |          |          |         |          |        |        |       |      |                |       |       |              |         |        |         |          |         |          |          | Calc  | 'd %ages b | У    | Calc'd % |
|----------|----------|----------|---------|----------|--------|--------|-------|------|----------------|-------|-------|--------------|---------|--------|---------|----------|---------|----------|----------|-------|------------|------|----------|
|          |          |          | DRILLED | INTERVAL | SAMPLE | REJECT | MOIST | TURE |                | ASH   | •     | TO           | FAL SUI | LFUR   | SU      | LFUR FOI | RMS     | SPECI    | FIC      | t     | ock volum  | e    | rock     |
| HOLE     | SEAM     | SAMPLE   | From    | To       | THKNES | WEIGHT | %     |      |                | %     |       |              | %       |        |         | %        |         | GRAV     | ITY      | Enter | sum        | prop | sum      |
| #        |          | #        | · (     | m)       | (m)    | (gms)  | A.R.  | A.D. | A.R.           | A.D.  | D.B.  | A.R.         | A.D.    | D.B.   |         | A.D      |         | (Meas'd) | (Calc'd) | here  | 0.00       | 0.00 | 0.00     |
|          | iLa      | 23       | 27.43   | 27.93    | 0.50   | 2892.9 | 4.23  | 0.84 | 29.71          | 30.76 | 31.02 | • 0.87       | 0.90    | 0.91   | Pyritic | Sulfate  | Organic |          | . 158    |       |            |      |          |
|          | l La Fir | 24       | 27.93   | 28,36    | 0.43   | 2624.8 | 2.84  | 0.73 | 60.33          | 61.64 | 62.09 | 0.29         | 0.30    | 0.30   |         |          |         |          | 2.03     |       |            |      |          |
|          | 1L prtng | 25       | 28.36   | 29.07    | 0.71   | 3826.3 | 2.76  | 0,73 | 69.11          | 70,55 | 71.07 | 1.16         | 1.18    | 1.19   |         |          |         |          | 2.21     |       |            |      |          |
|          | 1Lb      | 26       | 29.07   | 29.47    | 0,40   | 2085.3 | 3.81  | 0.83 | 22.14          | 22,83 | 23.02 | 0.82         | 0.85    | 0.86   | 0.22    | 0.01     | 0.63    |          | 1,50     |       | *          |      |          |
|          | IL FIr   | 27       | 29.47   | 29.75    | 0.28   | 2776.2 | 2.43  | 0.88 | 85.90          | 87.27 | 88.04 | 0,26         | 0,26    | 0,26 . |         |          |         |          | 2.65     |       |            |      | ٠        |
| T93R-07C | c Rf     | 1        | 83,60   | 83.87    | 0.27   | 1785.9 | 2.00  | 0.60 | 73.12          | 74,16 | 74.61 | 5.76         | 5.84    | 5.88   |         |          |         |          | 2.29     |       |            |      |          |
|          | с        | 2&3      | 83,87   | 84,85    | 0.98   | 5487,4 | 5,66  | 0.71 | 14,93          | 15.71 | 15.82 | 1.46         | 1.54    | 1.55   | 0.70    | 0.02     | 0.82    |          | 1.43     |       |            |      |          |
|          | c Fir    | 4        | 84.85   | 85,15    | 0.30   | 1749.8 | 4.25  | 0.86 | 84.31          | 87,30 | 88,06 | 0,13         | 0.13    | 0.13   |         |          |         |          | 2.65     |       |            |      |          |
|          | b        | 5        | 92,35   | 92,75    | 0.40   | 2149.8 | 3.99  | 0.65 | 13.47          | 13.94 | 14.03 | 2,93         | 3.03    | 3,05   | 1.82    | 0.05     | 1.16    | 1.39     | 1.39     |       |            |      |          |
|          | IŲ Rf    | 6        | 99.60   | 99,90    | 0,30   | 2181.1 | 3.79  | 0.76 | 51.55          | 53.18 | 53,59 | <b>6.4</b> 1 | 6.61    | 6,66   |         |          |         |          | 1,88     |       |            |      |          |
|          | IU       | 7        | 99.90   | 100.14   | 0.24   | 1329.9 | 5.33  | 0.71 | 33.89          | 35.54 | 35.79 | 3.08         | 3.23    | 3.25   |         |          |         | 1.70     | 1.70     |       |            |      |          |
|          | IU       | 8        | 100.14  | 101.17   | 1.03   | 5340.3 | 6.28  | 0.70 | 4.98           | 5.28  | 5.32  | I.12         | 1.19    | 1.20   |         |          |         | 1.31     | 1.31     |       |            |      |          |
|          | IU       | 9&10     | 101.17  | 102.00   | 0.83   | 4496.2 | 5,23  | 0.69 | 18,23          | 19.10 | 19.23 | 0.66         | 0.69    | 0.69   |         |          |         |          | 1.46     |       |            |      |          |
|          | 1        | 11,12&13 | 102.00  | 103.75   | 1.75   | 9329.5 | 7.44  | 0.73 | 14.36          | 15,40 | 15.51 | 0.88         | 0.94    | 0.95   |         |          |         |          | 1.43     |       |            |      |          |
|          | 1        | 14&15    | 103.75  | 105,39   | 1.64   | 8915.8 | 6.89  | 0.75 | 14.20          | 15.14 | 15.25 | 0.51         | 0.54    | 0.54   |         |          |         | 1.40     | 1.40     |       |            |      |          |
|          | 1        | 16&17    | 105,39  | 106.19   | 0,80   | 4537.9 | 5.64  | 0.85 | 16.48          | 17.32 | 17.47 | 0.48         | 0.50    | 0.50   |         |          |         |          | 1.44     |       |            |      |          |
|          | 1        | 18       | 106.19  | 106.47   | 0.28   | 1518,3 | 5.12  | 0.60 | 25.27          | 26.47 | 26.63 | 0.42         | 0.44    | 0.44   |         |          |         | 1.51     | 1.51     |       |            |      |          |
|          | l Flr    | 19       | 106.47  | 106.75   | 0.28   | 2080,2 | 3.44  | 0.72 | 79.52          | 81.76 | 82.35 | 0.16         | 0.16    | 0.16   |         |          |         |          | 2.49     |       |            |      |          |
|          | l La Rf  | 20       | 110.20  | 110.52   | 0.32   | 3306.1 | 2,97  | 0,70 | 75,86          | 77.63 | 78.18 | 4.04         | 4.13    | 4.16   |         |          |         |          | 2.38     |       |            |      |          |
|          | lLa      | 21       | 110.52  | 110.82   | 0.30   | 1764,6 | 3.28  | 0,65 | 33,23          | 34,13 | 34,35 | 2,69         | 2,76    | 2,78   |         |          |         |          | 1.62     |       |            |      |          |
|          | 1L prtg  | 22       | 110.82  | 111.05   | 0.23   | 2120.6 | 2,53  | 0.63 | 80,30          | 81.87 | 82.39 | 0.31         | 0.32    | 0,32   |         |          |         | •        | 2.49     |       |            |      |          |
|          | 1Lb      | 23&24    | 111.05  | 112.30   | 1.25   | 7592.9 | 4.23  | 0.50 | 19,36          | 20.11 | 20.21 | 1.96         | 2.04    | 2.05   | 1.11    | 0.03     | 0,90    |          | 1.47     |       |            |      |          |
|          | IL Flr   | 25       | 112,30  | 112.65   | 0,35   | 2694.6 | 3.22  | 0.70 | . <b>79.84</b> | 81.92 | 82.50 | 0.42         | 0.43    | 0.43   |         |          |         |          | 2.49     |       |            |      |          |
| T93R-08C | c Rf     | 1        | 2.80    | 3.13     | 0.33   | 2109.6 | 3,75  | 0.46 | 83.61          | 86.47 | 86.87 | 2.82         | 2.92    | 2.93   |         |          |         |          | 2.63     |       |            |      |          |
|          | С        | 2&3      | 3.13    | 3.95     | 0.82   | 4243.1 | 6.23  | 0.48 | 19.73          | 20,94 | 21.04 | 3,20         | 3.40    | 3.42   |         |          |         |          | 1.48     |       |            |      |          |
|          | c        | 4        | 3,95    | 4.63     | 0.68   | 1928.5 | 6,57  | 0.45 | 31.67          | 33,74 | 33.89 | 1.46         | 1,56    | 1.57   |         |          |         |          | 1.62     |       |            |      |          |
|          | c Flr    | 5        | 4.63    | 5.00     | 0.37   | 2505.8 | 3,19  | 0,50 | 81.85          | 84.13 | 84,55 | 0,38         | 0,39    | 0.39   |         |          |         |          | 2,55     |       |            |      |          |
|          | 1U Rf    | 6        | 8,20    | 8,56     | 0,36   | 2817.1 | 2.76  | 0.51 | 84.09          | 86.04 | 86.48 | 0,13         | 0.13    | 0.13   |         | •        |         |          | 2.61     |       |            |      |          |
|          | 1U       | 7&8      | 8,56    | 9.34     | 0,78   | 4078.4 | 7.45  | 0.54 | 11.87          | 12.76 | 12.83 | 0.45         | 0.48    | 0.48   |         |          |         |          | 1.40     |       |            |      |          |
|          | IU       | 9&10     | 9.34    | 10.25    | 0.91   | 4999.6 | 7.30  | 0.61 | 13.23          | 14.18 | 14.27 | 0.40         | 0.43    | 0.43   |         |          |         |          | 1.42     |       |            |      |          |
|          | IU       | 11       | 10.25   | 10.40    | 0.15   | 1240.8 | 3.68  | 0.63 | 72.00          | 74.28 | 74.75 | 0.20         | 0.21    | 0.21   |         |          |         |          | 2.29     |       |            |      |          |

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|---------|---------|--------|---------|----------|----------|--------|-------|------|-------|-------|-------|---|------|---------|------|---------|----------|---------|----------|----------|-------|-------------|------|----------|
|         |         |        | DRILLED | INTERVAL | . SAMPLE | REJECT | MOIST | TURE |       | ASH   |       |   | тот  | 'AL SUL | .FUR | SU      | LFUR FO  | RMS     | SPECI    | FIC      |       | rock volum  | a    | rock     |
| HOLE    | SEAM    | SAMPLE | From    | То       | THKNES   | WEIGHT | %     |      |       | %     |       |   |      | %       |      |         | %        |         | GRAV     | ITY      | Enter | sum         | ргор | sum      |
| #       |         | #      | (1      | n)       | (m)      | (gms)  | A.R.  | A.D. | A.R.  | A.D.  | D.B.  | Α | .R.  | A.D.    | D.B. | <u></u> | — A.D. – |         | (Meas'd) | (Caic'd) | here  | 0.00        | 0,00 | 0,00     |
| <u></u> |         |        |         |          |          |        |       |      |       |       | •••   |   |      |         |      | Pyritic | Sulfate  | Organic |          | •        |       |             |      |          |
|         | 1U      | 12     | 10.40   | 10.62    | 0,22     | 886,8  | 6,04  | 0,55 | 20.98 | 22,20 | 22,32 |   | 0.64 | 0.68    | 0.68 |         |          |         |          | 1.49     |       |             |      |          |
|         | I Prtng | 13&14  | 10.62   | 11.42    | 0,80     | 3455.3 | 3.34  | 0.69 | 74,21 | 76,24 | 76.77 |   | 0,25 | 0.26    | 0.26 |         |          |         |          | 2.34     |       |             |      |          |
|         | 1       | 15     | 11.42   | 12.43    | 1.01     | 5658,9 | 6,28  | 0.47 | 16,96 | 18.01 | 18.10 |   | 0,60 | 0.64    | 0.64 | 0.10    | 0,01     | 0.53    |          | 1.45     |       |             |      |          |
|         | l Fir   | 16     | 12.43   | 12.80    | 0.37     | 2148.1 | 3.11  | 0.67 | 80.62 | 82,65 | 83.21 | • | 0.19 | 0.19    | 0.19 |         |          |         |          | 2,51     | *     | -           |      |          |
|         | 1La     | 17     | 14,15   | 14.53    | 0.38     | 2064.9 | 3.70  | 0.46 | 39,41 | 40,74 | 40.93 |   | 8.82 | 9.12    | 9.16 |         | •        |         |          | 1,70     |       |             |      |          |
|         | 1La     | 18     | 14.53   | 14,90    | 0.37     | 1121.8 | 4.90  | 0.44 | 16.78 | 17.57 | 17.65 |   | 2.87 | 3.00    | 3.01 |         |          |         |          | 1.45     |       |             |      |          |

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|----------|---------|--------|---------|----------|--------|--------|-------|-----------|--------|-------|---------|------|---------------|----------------------------------------|---------|---------|---------|-------------|-------------|-------|-------------|------|----------|
|          |         |        | DRILLED | INTERVAL | SAMPLE | REJECT | MOIST | TURE      |        | ASH   |         | TO   | ral sui       | LFUR                                   | SU      | LFUR FO | RMS     | SPECIFIC    | 2           |       | rock volum  | 9    | rock     |
| HOLE     | SEAM    | SAMPLE | From    | То       | THKNES | WEIGHT | %     | 6 <b></b> |        | %     |         |      | %             | ······································ | <b></b> | %       |         | GRAVITY     | ĸ           | Enter | sum         | prop | sum      |
| #        |         | #      |         | m)       | (m)    | (gms)  | A.R.  | A.D.      | A.R.   | A.D.  | D,B,    | A.R. | A.D.          | D.B.                                   |         | A.D     |         | (Meas'd) (C | Cale'd)     | here  | 0.00        | 0.00 | 0.00     |
|          |         |        |         |          |        |        |       |           |        |       |         | **   |               | ······································ | Pyritic | Sulfate | Organie | 4           |             |       |             |      |          |
| T92R-40C | 1 Rf    | 1.     | 25.40   | 25.62    | 0.22   | 1534.2 | 2,94  | 0.41      | 87.69  | 89,97 | 90.34   | 0.07 | 0.07          | 0.07                                   |         |         |         |             | 2.74        |       |             |      |          |
|          | 1       | 2      | 25,62   | 26.97    | 1.35   | 5512,9 | 8,11  | 0.91      | 12.21  | 13,17 | 13.29   | 0.73 | 0.79          | 0.80                                   |         |         |         |             | 1.41        |       |             |      |          |
|          | 1       | 3      | 26.97   | 27.96    | 0.99   | 5038.4 | 9.54  | 0.79      | 10.81  | 11.85 | 11.94   | 0.40 | 0.44          | 0.44                                   |         |         |         |             | 1.40        |       |             |      |          |
|          | 1       | 4&5    | 27.96   | 29.46    | 1.50   | 9071.3 | 5.46  | 0,86      | 20.62  | 21.62 | 21,81   | 0,73 | 0.77          | 0.78                                   |         |         |         |             | 1.49        |       |             |      |          |
|          | 1       | 6      | 29.46   | 30.18    | 0,72   | 3703.9 | 5.16  | 0.84      | 8.47   | 8.86  | 8.94    | 0,55 | 0,58          | 0.58                                   |         |         |         |             | 1.37        |       |             |      |          |
| •        | 1 Flr   | 7.     | 30.18   | 30.40    | 0.22   | 2121.7 | 3.27  | · 0.97    | 76,43  | 78,25 | 79.02   | 0.15 | 0.15          | 0.15                                   |         |         |         |             | 2.39        |       |             |      |          |
|          | lLa     | 8&9    | 30.40   | 30.83    | 0.43   | 2643,8 | 3.48  | 0.90      | 33.15  | 34.03 | 34.34   | 0.47 | 0.48          | 0.48                                   |         |         |         |             | 1.62        |       |             |      |          |
|          | 1 Flr   | 10     | 30.83   | 31.10    | 0.27   | 2135,4 | 2.54  | 0.70      | 73.00  | 74.38 | 74.90   | 0.08 | 0.08          | 0.08                                   |         |         |         |             | 2.30        | •     |             |      |          |
|          |         |        |         |          |        |        | •     |           |        |       |         |      |               |                                        |         |         |         |             |             |       |             |      |          |
| T93R-01C | 3U      | 1      | 19.39   | 20,43    | 1.04   | 1430.8 | 10.79 | 1.14      | 13.29  | 14.73 | 14.90   | 1 14 | 1 26          | 1 27                                   | 0.58    | 0.04    | 0.64    |             | 1 42        |       |             |      |          |
|          | 31.     |        | 20.82   | 21.10    | 0.28   |        |       |           | 10.007 |       |         |      | 1.00          | 1.27                                   | 0,50    | 0.04    | 0,04    |             | 1.72        |       |             |      |          |
|          | 2       | 3      | 27.22   | 27.54    | 0.32   | 1096 1 | 10.51 | 0.97      | 25 33  | 28.03 | 28 30   | 3.96 | 1 77          | 1 21                                   |         |         |         |             | 1 55        |       |             |      |          |
|          | 2       | 2      | 27.54   | 28.25    | 0.71   | 3178.7 | 8 54  | 1 19      | 6 98   | 7 54  | 7.63    | 1 57 | 4.27          | 4.51                                   |         |         |         |             | 1.35        |       |             |      |          |
|          | 2       | 48:5   | 28.25   | 29.67    | 1.42   | 6836.0 | 936   | · 1 14    | 5.86   | 6 39  | 6.46    | 0.60 | 0.65          | 0.66                                   |         |         |         | •           | 1,30        |       |             |      |          |
| •        | 2 Fir   | 6      | 29.67   | 29.96    | 0.29   | 1500.2 | 2 81  | 0.82      | 82 33  | 84.01 | 84.70   | 0.00 | 0.03          | 0.00                                   |         |         |         |             | 1.33        |       |             |      |          |
|          |         | -      |         |          |        |        | 2101  | 0.04      | 02.55  |       | . 04.70 | 0.15 | 0.15          | 0.15                                   |         |         |         |             | 2,33        |       |             |      |          |
| T93R-06C | Rf      | t      | 8 25    | 8 58     | 0.33   |        |       |           |        |       |         |      |               |                                        |         |         | ,       |             |             |       |             |      |          |
|          | 7       | 2      | 8 58    | 8 79     | 0.00   | 1173.0 | 4 50  | 0.72      | 20.95  | 22.07 | 77 20   | E 13 | 6 22          | 6 3 7                                  |         |         |         |             | 1 60        |       |             |      |          |
|          | Fir     | 3      | 8.79    | 9.00     | 0.21   | 11/0/0 | 4.50  | 0.72      | 50.05  | 52.07 | 22.20   | 5.15 | 2.22          | 3.37                                   |         |         |         |             | 1.60        |       |             |      |          |
|          | c.Rf    | 4      | 10.00   | 10.28    | 0.28   | 1888 6 | 3 25  | 0.73      | 81.01  | 84.57 | 85 10   | 1.94 | 1.00          | 1.01                                   |         |         | •       | 2.55        | 0.55        |       |             |      |          |
|          | с.<br>с | 5&6    | 10.28   | 11.18    | 0.20   | 5562.6 | 4 58  | 0.70      | 26.06  | 27 12 | 05.15   | 1.04 | 1.70          | 1.71                                   |         |         |         | 2.55        | 4.00        |       |             |      |          |
|          | c       | 7&8    | 11.18   | 11.88    | 0.50   | 3926.9 | 5 50  | 0.76      | 16.00  | 17.75 | 17.89   | 4.25 | 4.42          | 4.45                                   |         |         |         |             | 1.54        |       |             |      |          |
|          | c Flr   | 9      | 11.88   | 12.15    | 0.27   | 2761.1 | 4.75  | 1.03      | 79.91  | 83.03 | 83.89   | 1.05 | 1.00          | 1.44                                   |         |         |         |             | 1.45        |       |             |      |          |
|          | b       | 10     | 18.55   | 18.83    | 0.28   | 1406.6 | 3.97  | 0.73      | 16.09  | 16.63 | 16.75   | 2.86 | 2.96          | 2.08                                   | 1 75    | 0.04    | 1 17    |             | 1.44        |       |             |      |          |
|          | IU Rf   | 11     | 20.74   | 21.01    | 0.27   | 3659.1 | 2.89  | 0.89      | 84.25  | 85.98 | 86.75   | 2.02 | 2.06          | 2.20                                   | 1.70    | 0.04    | 1.17    |             | 2.61        |       |             |      |          |
|          | IU      | 12     | 21.01   | 21.52    | 0.51   | 3057.7 | 4.84  | 0.73      | 22.98  | 23.97 | 24.15   | 5.08 | 5 30          | 5 34                                   |         |         |         |             | 1.51        |       |             |      |          |
|          | 10      | 13&14  | 21.52   | 22.88    | 1.36   | 7235.6 | 6.16  | 0.70      | 8 73   | 9 24  | 931     | 1.56 | 1.65          | 1.66                                   |         |         |         | 1 36        | 1.31        |       |             |      |          |
|          | 1 Prtng | 15&16  | 22.88   | 23.90    | 1.02   | 4624.8 | 3.08  | 1.03      | 76.30  | 77.91 | 78.72   | 0.44 | 0.45          | 0.45                                   | 1       |         |         | 1.00        | 2.28        | •     |             |      |          |
| •        | 1       | 17     | 23.90   | 24,19    | 0.29   | 1542.0 | 5.68  | 0,76      | 27.60  | 29.04 | 29.26   | 0.94 | 0.88          | 0.89                                   |         |         |         |             | ەد.م<br>۱۹۶ |       |             |      |          |
|          | 1       | 18&19  | 24.19   | 25,87    | 1.68   | 9650.3 | 6.64  | 0.80      | 12.65  | 13.44 | 13.55   | 0.60 | 0.64          | 0.65                                   |         |         |         |             | 1.50        |       |             |      |          |
|          | 1       | 20&21  | 25.87   | 27,07    | 1.20   | 7068.1 | 5.64  | 1.02      | 19.93  | 20.91 | 21.13   | 0.65 | 0.68          | 0.69                                   |         |         |         |             | 1.41        |       |             |      |          |
|          | l Fir   | 22     | 27.07   | 27.43    | 0.36   | 3519.9 | 2.35  | 0.72      | 72.73  | 73.94 | 74 48   | 7 41 | 2.45          | 2 47                                   |         |         |         |             | 7 70        |       |             |      |          |
|          |         |        |         |          |        |        | 2,20  |           |        |       |         | 2.71 | м, <b>т</b> и | 41-7 <i>1</i>                          |         |         |         |             | £,£7        |       |             |      |          |

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|          |         |           |         |          |              |         |       |            |                |       |               |      |         |      |         |          |         |          |          | Ca    | le'd %ages b | y    | Calc'd %ag | es by | Calc'd raw | Calc'd raw  | Calc'd S.G. |
|----------|---------|-----------|---------|----------|--------------|---------|-------|------------|----------------|-------|---------------|------|---------|------|---------|----------|---------|----------|----------|-------|--------------|------|------------|-------|------------|-------------|-------------|
|          |         |           | DRILLED | INTERVAL | SAMPLE       | REJECT  | MOIST | FURE       |                | ASH   |               | TOT  | CAL SUL | FUR  | SUI     | FUR FOF  | RMS     | SPECI    | FIC      |       | rock volume  | c    | rock de    | nsity | composite  | composite   | on seam     |
| HOLE     | SEAM    | SAMPLE    | From    | То       | THKNES       | WEIGHT  | %     | ۶ <u> </u> | ·              | %     |               |      | %       |      | •       | %        |         | GRAV     | TTY      | Enter | sum          | prop | sum        | prop  | ash (DB)   | sulfur (DB) | composite   |
| Ħ        |         | #         | (       | m)       | . (m)        | (gms)   | A.R.  | A.D.       | A.R.           | A.D.  | <b>D.B.</b> · | A.R. | A.D.    | D,B. |         | — A.D. — |         | (Meas'd) | (Calc'd) | here  | 0.00         | 0.00 | 0.00       | 0.00  |            |             | 0,00        |
| T02D-11C | A 1107  | 1         | 19.83   | 20 54    | 0.71         | 3055 7  | 5 70  | 0.53       | 16.99          | 17 72 | 17 92         | 284  | 2.02    | 2.00 | Pyritic | Sulfate  | Organic |          | 1.45     |       |              | •    |            |       |            |             |             |
| 19384110 | Pring   | 2&3       | 20.54   | 21.13    | 0.59         | 4194.5  | 4.25  | 1.02       | 78 57          | 81 12 | 87.01         | 2,04 | 3 44    | 3.48 |         |          |         | 2 30     | 7 30     |       |              |      |            |       |            |             |             |
|          |         | 4.5&6     | 21.13   | 23.33    | 2.20         | 12881.6 | 6.01  | 0.55       | 20.61          | 21.81 | 21.93         | 2.38 | 2 52    | 2 53 | 1 54    | 0.05     | 693     | 4.37     | 1 49     |       |              |      |            |       |            |             |             |
|          | c Fir   | 7         | 23.33   | 23.60    | 0.27         | 1989.2  | 5.24  | 1.12       | 75:54          | 78.83 | 79.72         | 0.26 | 0 27    | 0.27 | 1,01    | 0,00     | 0.75    |          | 2 41     |       |              |      |            |       |            |             |             |
|          | 1URf    | 8         | 39.85   | 40.30    | 0.45         | 2901.5  | 3.51  | 0.88       | 79.22          | 81.38 | 82.10         | 2.57 | 2.64    | 2.66 |         |          |         |          | 2.48     |       |              |      |            |       |            |             |             |
|          | 1U      | 9         | 40.30   | 40.74    | 0,44         | 2691,6  | 5.37  | 0.66       | 26.33          | 27.64 | 27.82         | 3.90 | 4.09    | 4.12 |         |          |         |          | 1.55     |       |              |      |            |       |            |             |             |
|          | IU      | 10&11     | 40.74   | 42.25    | 1.51         | 8499,5  | 5,33  | 0,56       | 9,96           | 10.46 | 10.52         | 1.44 | 1.51    | 1.52 |         |          |         |          | 1.38     |       |              |      |            |       |            |             |             |
|          | 1 Pring | 12        | 42,25   | 42,30    | 0,05         | 255.1   | 3.98  | 1,10       | 61,56          | 63.41 | 64.12         | 0.39 | 0.40    | 0.40 |         |          |         |          | 2.06     |       |              |      |            |       |            |             |             |
|          | 1       | 13,14&15  | 42.30   | 44.29    | 1,99         | 11407,9 | 6,66  | 0.83       | 15,78          | 16.77 | 16,91         | 0,74 | 0.79    | 0,80 |         |          |         | 1.43     | 1,43     |       |              |      |            |       |            |             |             |
|          | 1       | 16&17     | 44.29   | 45.87    | 1.58         | 9193.4  | 5.18  | 0,77       | 19,22          | 20,12 | 20,28         | 0,54 | 0,57    | 0,57 |         |          |         |          | 1.47     |       |              |      |            |       |            |             |             |
|          | 1       | 18        | 45.87   | 46,17    | 0.30         | 1541.1  | 5.45  | 0.57       | 9,93           | 10,44 | 10,50         | 0,60 | 0.63    | 0.63 |         |          |         |          | 1,38     |       |              |      |            |       |            |             |             |
|          | 1 Flr   | 19        | 46,17   | 46,45    | 0,28         | 1829,9  | 3.10  | 0.84       | 63.09          | 64.56 | 65.11         | 0.77 | 0.79    | 0.80 |         |          |         |          | 2.09     |       |              |      | •          |       |            |             |             |
|          | IL      | · 20      | 47.06   | 47.60    | 0.54         | 2965,9  | 4.81  | 0.71       | 30.14          | 31.44 | 31.66         | 2.72 | 2.84    | 2.86 | 1,66    | 0,06     | 1,12    | 1,59     | 1.59     |       |              |      |            |       |            |             |             |
|          |         |           |         |          |              |         |       |            |                |       |               |      |         |      |         |          |         |          |          |       |              |      |            |       |            |             |             |
|          |         |           | •       |          |              |         |       |            |                |       |               |      |         |      |         |          |         |          |          |       |              |      |            |       |            |             |             |
| T93D-22  | 11      | 1&2       | 89.30   | 90.23    | 0.93         | 3801.7  | 10.19 | 0.68       | 19.09          | 21,11 | 21,25         | 5.05 | 5.59    | 5,63 | 3,60    | 0,08     | 1,91    | 1,50     | 1.50     |       |              |      |            |       |            |             |             |
|          | 9       | 3         | 105.30  | 105.67   | 0.37         | 645.9   | 13.28 | 0.59       | 21.60          | 24.76 | • 24.91       | 3.02 | 3.46    | 3.48 | 2.16    | 0.11     | 1.19    |          | 1.52     |       |              |      |            |       |            |             |             |
| •        | 8       | 4         | 106.87  | 107.47   | 0.60         | 2292.6  | 7.18  | 0.76       | 13.80          | 14.75 | 14.86         | 2,14 | 2,29    | 2.31 |         |          |         |          | 1.42     |       |              |      |            |       |            |             |             |
|          | 8       | 5         | 107.47  | 108.07   | 0.60         | 1947.4  | 9,26  | 0,75       | 18,03          | 19,72 | 19,87         | 0,85 | 0.93    | 0.94 |         |          |         |          | 1.47     |       |              |      |            |       |            |             |             |
|          | 8       | 6         | 108.07  | 108,86   | 0,79         | 3316.4  | 6.81  | 0.88       | 11.68          | 12.42 | 12.53         | 0.41 | 0,44    | 0.44 |         |          |         |          | 1.40     |       |              |      |            |       |            |             |             |
|          | 7       | 7         | 123.06  | 123.62   | 0.56         | 2230.0  | 6,55  | 0.75       | 19.36          | 20,56 | 20,72         | 3,23 | 3,43    | 3,46 | 2.12    | 0.07     | 1.24    |          | 1,48     |       |              |      | -          |       |            |             |             |
|          | 6       | 8         | 139.77  | 139,90   | 0,13         | 534.4   | 4.42  | 0.68       | 37.78          | 39.26 | 39.53         | 7,54 | 7.84    | 7.89 |         |          |         |          | 1,69     |       |              |      |            |       |            |             |             |
|          | . 6     | 9         | 139,90  | 140.64   | 0.74         | 2936.7  | 5,16  | 0,87       | 10.86          | 11.35 | 11,45         | 2,58 | 2,70    | 2,72 |         |          |         |          | 1,39     |       |              |      |            |       |            |             |             |
|          | 6       | 10&11     | 140,64  | 142,50   | 1,86         | 6611.0  | 7,72  | 0.82       | 4.90           | 5.27  | 5.31          | 0.74 | 0,79    | 0.80 |         |          |         | 1.30     | 1.30     |       |              |      |            |       |            |             |             |
|          | 6       | 12&13     | 142,50  | 144.19   | 1.69         | 3831,6  | 7,14  | 0,83       | 10,10          | 10.79 | 10.88         | 0,42 | 0,45    | 0,45 |         |          |         |          | 1,39     |       |              |      |            |       |            |             |             |
|          | Pring   | 14        | 144.19  | 144.46   | 0.27         | 1494.0  | 6.54  | 0.69       | 62.16          | 66.05 | 66.51         | 1.70 | 1.81    | 1.82 |         |          |         | 2.05     | 2.05     |       |              |      |            |       |            |             |             |
|          | ٢       | 15&16     | 144.46  | 146.98   | 2.52         | 9559.4  | 8.91  | 0.85       | 9.75           | 10.61 | 10.70         | 0.51 | 0.55    | 0.55 |         |          |         |          | 1 38     |       |              |      |            |       |            |             |             |
|          | 5       | 178-19    | 146.08  | 149.58   | . 1.60       | 5627.6  | 675   | 0.77       | 12.01          | 10.01 | 13.00         | 0.46 | 0.40    | 0.40 |         |          |         |          | 1.00     |       |              |      |            |       |            |             |             |
|          | ç       | 10        | 149.59  | 140.11   | 0 43         | 2020.3  | 5 30  | 0.02       | 21.06          | 72.07 | 22.00         | 0.40 | 0,45    | 0.47 |         |          |         |          | 1.40     |       |              |      |            |       |            |             |             |
|          | Dutura  | 1.000     | 140.11  | 140.67   | 0.55         | 2017,5  | 5,50  | 0.94       | . 21.50        | ~~    | 20,10         | 0,51 | 0,00    | 0.55 |         |          |         |          | 1.50     |       |              |      |            |       |            |             |             |
|          | ring    | A022      | 149.11  | 149.07   | 0.50         | (180.0  |       |            |                |       |               |      |         |      |         |          |         |          |          |       |              |      |            |       |            |             |             |
|          | 4       | 20821     | 149,67  | 151.42   | 1.75         | 6178.8  | 7.23  | 0,83       | 12,82          | 13.70 | 13.81         | 0.71 | 0.76    | 0.77 | 0.14    | 0.01     | 0.61    |          | 1,41     |       |              |      |            |       |            |             |             |
|          | 30      | 22        | 120,44  | 157.72   | 1,28         | 4482,8  | 0.92  | 1.04       | 13,33          | 14,21 | 14,33         | 1,15 | 1,23    | 1.24 | 0.51    | 0.03     | 0.65    |          | 1.42     |       |              |      |            |       |            |             |             |
|          | 36      | 236224    | 157,99  | 159,40   | 1,41         | 4029,9  | 5,41  | 1,04       | 13.70          | 14,40 | 14,55         | 1.09 | 1,14    | 1.15 | 0.47    | 0,03     | 0,64    | •        | 1.42     |       |              |      |            |       |            |             |             |
|          | 20      | 24D<br>25 | 104.04  | 169.30   | 0.20         | 1338,3  | 2.70  | 0,90       | 33,92          | 34,57 | 34,88         | 4.18 | 4,20    | 4,30 |         |          |         |          | 1.03     |       |              |      |            |       |            |             |             |
|          | 2       | 25        | 160 71  | 109.71   | 1 14         | 3282.7  | 3.33  | 0.00       | 51,50<br>10 #1 | 11 19 | 11 77         | 3,03 | 3,93    | 1.65 |         |          |         |          | 1,00     |       |              |      |            |       |            |             |             |
|          | 2       | 20        | 170.95  | 172 27   | 2 42         | 9884 1  | 1.00  | 0.04       | 16.40          | 17.10 | 17.27         | 0.47 | 0.50    | 0.50 | •       |          |         |          | 1,39     |       |              |      |            |       |            |             |             |
|          | 2       | 210020    | 173.27  | 173.85   | 4.44<br>0.58 | 2440.4  | 5.56  | 1 01       | 13.65          | 1431  | 14 46         | 0.47 | 0.50    | 0.30 |         | •        |         |          | 1,40     |       |              |      |            |       | -          |             |             |
|          | 2       | 23        | 113.41  | 173.03   | 0.50         | 2440.4  | 5.50  | 1.01       | 15,05          | 14,31 | 14.40         | 0.33 | 0.55    | 0.55 |         |          |         |          | 1,42     |       |              |      |            |       | -          |             |             |

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| HOLE     | SFAM       | SA MDI F       | DRILLED | INTERVAL | SAMPLE | REJECT | MOIS    | TURE   | •       | ASH   |       | то    | TAL SUI     | FUR   |   | SUI     | FUR FOI  | RMS     | SPEC            | CIFIC            | Cal   | o'd %ages by<br>rock volume | y<br>3       | Cale'd %ag<br>rock de | ses by<br>ensity | Cale'd raw<br>composite | Calo'd raw<br>composite | Calo'd S.G.<br>on seam |
|----------|------------|----------------|---------|----------|--------|--------|---------|--------|---------|-------|-------|-------|-------------|-------|---|---------|----------|---------|-----------------|------------------|-------|-----------------------------|--------------|-----------------------|------------------|-------------------------|-------------------------|------------------------|
| #        | OLMAN      | 57301K DE<br># | (       | n)       | (m)'   | (ems)  | A.R.    | A.D.   | A.R.    | A.D.  | D.B.  | A.R.  | %<br>A.D.   |       | • |         | %<br>A.D |         | GKA<br>(Mess'd) | VIIX<br>(Caleid) | Enter | sum<br>0.00                 | prop<br>0.00 | sum<br>0.00           | prop<br>0.00     | ash (DB)                | sultur (DB)             | composite<br>0.00      |
|          |            |                | -       |          |        |        |         |        |         |       |       |       | · · · · · · |       | - | Pyritic | Sulfate  | Organic | (               | (00.000)         |       |                             |              |                       |                  |                         |                         |                        |
| T93D-23  | a          | 1              | 99.98   | 100.24   | 0.26   | 449.3  | 13.26   | 0.58   | 18.97   | 21.74 | 21,87 | 2.52  | 2.89.       | 2.91  |   |         |          |         |                 | 1.49             |       |                             |              |                       |                  |                         |                         |                        |
|          | <b>a</b> ' | 2              | 100.24  | 100.36   | 0.12   | 529,2  | 8.90    | 0.82   | 66,45   | 72.34 | 72.94 | 3,43  | 3.73        | 3.76  |   |         |          |         |                 | 2,25             |       |                             |              |                       |                  |                         |                         |                        |
|          | a          | 3              | 100,36  | 100.78   | 0.42   | 1234,1 | 13.68   | 0.70   | 29,68   | 34,14 | 34.38 | 2,21  | 2,54        | 2.56  |   |         |          |         |                 | 1.62             |       |                             | •            |                       |                  |                         |                         |                        |
|          | Ь          | 4              | 105.19  | 105.38   | 0,19   | 358,1  | 10,54   | 0.55   | 15.93   | 17.71 | 17.81 | 1,57  | 1,75        | 1.76  |   |         |          |         |                 | 1.45             |       |                             |              |                       |                  |                         |                         |                        |
|          | ¢          | 5              | 106.37  | 107.28   | 0.91   | 1896,3 | 8,05    | 0.74   | 21.98   | 23.73 | 23.91 | 4.23  | 4.57        | 4,60  |   | 3.05    | 0.14     | 1,38    | 1.53            | 1.53             |       |                             |              |                       |                  |                         |                         |                        |
|          | d          | 6              | 117.67  | 118.20   | 0.53   | 2607.9 | 6.66    | 0.57   | 46.77   | 49.82 | 50.11 | 14.17 | 15.09       | 15.18 |   |         |          |         |                 | 1.83             |       |                             |              |                       | •                |                         |                         |                        |
|          | . e        | 7              | 131.02  | 131.20   | 0.18   | 597.8  | , 7,05  | 0.54   | 35,45   | 37.93 | 38.14 | 1.43  | 1.53        | 1,54  |   |         |          |         |                 | 1.67             |       |                             |              |                       |                  |                         |                         |                        |
|          | c          | 8              | 131.20  | 131,71   | 0.51   | 2456.0 | 8.35    | 0.58   | 27,71   | 30,06 | 30.24 | 0.43  | 0.47        | 0.47. |   |         |          |         |                 | 1.58             |       |                             |              |                       |                  |                         |                         |                        |
|          | c          | y<br>10        | 131.71  | 132.70   | 0,99   | 3958,9 | 7.42    | 0.66   | 28.92   | 31,03 | 31,24 | 0.54  | 0.58        | 0.58  |   |         |          |         |                 | 1.59             |       |                             |              |                       |                  |                         |                         |                        |
|          | I<br>F     | 10 /           | 134,03  | 135,04   | 0.41   | 1473,2 | 7.00    | 0.62   | 52.26   | 11.86 | 11,93 | 1,19  | 1.28        | 1.29  | · |         |          |         |                 | 1.40             |       |                             |              |                       |                  |                         |                         |                        |
|          | л<br>      | 12             | 135.04  | 135.42   | 0.38   | 836.0  | 0,99    | 0.59   | 23.20   | 30.92 | 37,26 | 1,70  | 1.82        | 1,83  |   |         |          |         |                 | 1,95             |       |                             |              |                       |                  |                         |                         |                        |
|          | ь<br>1     | 13             | 138.57  | 139.04   | 0.47   | 1863 7 | 977     | 0,05   | 26.14   | 28.77 | 28.97 | 1.04  | 1 00        | 2.00  |   |         |          |         |                 | 1.20             |       |                             |              |                       |                  |                         |                         |                        |
|          | ĥ          | 14             | 139.04  | 140.58   | 1.54   | 5059.4 | 8.04    | 0.67   | 17 45   | 18 85 | 18 98 | 0.59  | 0.64        | 0.64  |   |         |          |         |                 | 1.50             |       |                             |              |                       |                  |                         |                         |                        |
|          | h          | 15             | 140,58  | 140.83   | 0,25   | 1154,1 | 5.45    | 0.60   | 20.23   | 21.27 | 21.40 | 0.33  | 0.35        | 0.35  |   |         |          |         |                 | 1.48             |       |                             |              |                       |                  |                         |                         |                        |
|          |            |                |         |          |        |        |         |        |         |       |       |       |             |       |   |         |          |         |                 |                  |       |                             |              |                       |                  |                         |                         |                        |
|          |            |                | ,       |          |        |        |         |        |         |       | •     |       |             |       |   |         |          |         |                 |                  |       |                             |              |                       |                  |                         |                         |                        |
| T93D-24  | N/C        |                |         |          |        |        |         |        |         |       |       |       | •           |       |   |         |          |         |                 |                  |       |                             |              |                       |                  |                         |                         |                        |
|          |            |                |         |          |        |        |         |        | •       |       |       |       | •           |       |   |         |          |         |                 |                  |       |                             |              |                       |                  |                         |                         |                        |
| 7020-27  | 7 D.f      | 1              | 87 15   | 87 56    | 0.41   | 1660.9 | 2.06    | . 0.70 | 94.72   | 07.69 | 00.00 |       |             | a /a  |   |         |          |         |                 |                  |       |                             |              |                       |                  |                         |                         |                        |
| 17317-21 | 7          |                | 07.15   | 07,20    | 0.41   | 2216.0 | 3,90    | 0.79   | 10 00   | 87,52 | 38.22 | 2.55  | 2.61        | 2,03  |   |         |          |         |                 | 2.66             |       |                             |              |                       |                  |                         |                         |                        |
|          | /<br>      | 2              | 87.30   | 00.17    | 0.01   | 2215.0 | 4.50    | 0.33   | 13.70   | 14.31 | 14.36 | 2,10  | 2,19        | 2,20  |   | 1.13    | 0.08     | 0.98    |                 | 1.42             |       |                             |              |                       |                  |                         |                         |                        |
|          | 7 Pfr.     | 3              | 88,17   | 88,50    | 0,33   | 1242.5 | 4.67    | 0,38   | 78,03   | 81,54 | 81.85 | 2.99  | 3.12        | 3.13  |   |         |          |         | •               | 2,48             |       |                             |              |                       |                  |                         |                         |                        |
|          | 6 Rf       | 4              | 101.50  | 101.85   | 0,35   | 1596.4 | 3.47    | 0.21   | 81.68   | 84.44 | 84.62 | 3.19  | 3.30        | 3,31  |   |         |          |         |                 | 2.56             |       |                             |              |                       |                  |                         |                         |                        |
|          | 6          | 5              | 101,85  | 103.31   | 1.46   | 4423.6 | 11,49   | 0.27   | 9,28    | 10.46 | 10.49 | 0.83  | 0.94        | 0.94  |   |         |          |         | . 1,33          | 1.33             |       |                             |              |                       |                  |                         |                         |                        |
| •        | 6          | 6              | .103.31 | 105,22   | 1,91   | 5926.9 | 12,86   | 0.28   | 5.66    | 6.48  | 6.50  | 0,47  | 0.54        | 0.54  |   |         |          |         |                 | 1.35             |       |                             |              |                       |                  |                         |                         |                        |
|          | 6          | 7&8            | 105,22  | 106,60   | 1.38   | 4011.7 | 15.40   | 0,33   | 25,12   | 29,60 | 29.70 | 0.82  | 0.97        | 0.97  |   |         |          |         |                 | 1,57             |       |                             |              |                       |                  |                         |                         |                        |
|          | 6          | 9              | 106.60  | 107.93   | 1.33   | 5722.1 | . 15.19 | 0.43   | 20.09   | 23,59 | 23,69 | 0,35  | 0.41        | 0.41  |   |         |          |         |                 | 1.51             |       |                             |              |                       |                  |                         |                         |                        |
|          | 5/6 Prtng  | 10             | 107.93  | 108,39   | 0.46   | 1558.5 | 7,11    | 0.52   | , 75.71 | 81.08 | 81.50 | 0.69  | 0.74        | 0.74  |   |         |          |         |                 | 2.47             |       |                             |              |                       |                  |                         |                         |                        |
|          | 5          | 11             | 108.39  | 110.05   | 1.66   | 6131.6 | 14.40   | 0.43   | 10,93   | 12.72 | 12.77 | 0.39  | 0.45        | 0.45  |   |         |          |         | 1.37            | 1.37             |       | 5                           |              |                       |                  |                         |                         |                        |
|          | 5          | 12&13          | 110.05  | 111.08   | 1.03   | 2859.0 | 10.88   | 0,45   | 21.50   | 24.02 | 24.13 | 0.46  | 0.51        | 0.51  |   |         |          |         |                 | 1.51             |       |                             |              |                       |                  |                         |                         |                        |
|          | 5 Fir?     | 14             | 111.08  | 111.48   | 0,40   | 2275.4 | 6.97    | 0.39   | 76,75   | 82,18 | 82,50 | 2,05  | 2,20        | 2.21  |   |         |          |         |                 | 2,50             |       |                             |              |                       |                  |                         |                         |                        |
|          | 47         | *15*           | 112.70  | 114.68   | 1.98   | 7517,2 | 13.06   | 0,22   | . 21.74 | 24.95 | 25.01 | 0.91  | 1.05        | 1.05  |   |         |          |         |                 | 1.52             |       |                             |              |                       |                  |                         |                         |                        |
|          | Slough?    | *15*           |         |          |        |        |         |        | •       |       |       |       | •           |       |   |         |          |         |                 |                  |       |                             |              |                       |                  |                         |                         |                        |
| T93D31   | 7          | 1              | 38.32   | 38.81    | 0.49   | 1402.5 | 4.85    | 0.44   | 30,73   | 32.15 | 32.29 |       |             |       |   |         |          |         |                 | 1.60             |       |                             |              |                       |                  |                         |                         |                        |
|          |            |                |         |          |        |        |         |        |         |       |       |       |             |       |   |         |          |         |                 |                  |       |                             |              |                       |                  |                         |                         |                        |
|          |            |                |         |          |        |        |         |        |         |       |       |       |             |       |   |         |          |         |                 |                  |       |                             |              |                       |                  |                         |                         |                        |

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T93D-38 Rf 1 69.55 69.89 0.34

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|      |       |        |           |          |        |        |       |      |       |       |        |      |         |      |              |          |                |                   | Cal   | o'd %ages by | y I  | Cale'd %ag | es by | Calc'd raw | Cale'd raw  | Calc'd S.G. |
|------|-------|--------|-----------|----------|--------|--------|-------|------|-------|-------|--------|------|---------|------|--------------|----------|----------------|-------------------|-------|--------------|------|------------|-------|------------|-------------|-------------|
|      |       |        | DRILLED I | INTERVAL | SAMPLE | REJECT | MOIST | URE  |       | ASH   |        | TOT  | 'AL SUI | FUR  | SULFUR FORMS |          |                | SPECIFIC          | :     | rock volume  | ;    | rock de    | nsity | composite  | composite   | on seam     |
| HOLE | SEAM  | SAMPLE | , From    | То       | THKNES | WEIGHT | %     |      |       |       |        |      | %       |      |              | <u> </u> |                | GRAVITY           | Enter | sum          | prop | sum        | prop  | ash (DB)   | sulfur (DB) | composite   |
| #    |       | #      | (r        | n)       | (m)    | (gms)  | A.R.  | A.D. | A.R.  | A.D.  | . D.B. | A.R. | A.D.    | D.B. |              | A.D      | <del>_</del> _ | (Meas'd) (Calc'd) | here  | 0.00         | 0.00 | 0.00       | 0,00  |            |             | 0.00        |
|      |       | _      | 40.00     |          |        |        |       |      |       |       |        |      |         | **** | Pyritic      | Sulfate  | Organic        |                   |       |              |      |            |       |            |             |             |
|      | 7     | 2      | 69.89     | 70.10    | 0.21   | 911.4  | 2,55  | 0,55 | 30.09 | 30,71 | 30.88  | 1.13 | 1.15    | 1.16 |              |          |                | 1.58              |       |              |      |            |       |            |             |             |
|      | Pring | 3      | 70.10     | 70.68    | 0.58   | 1057.1 | 5,14  | 0,50 | 76,35 | 80,09 | 80.49  | 2.55 | 2,67    | 2,68 |              |          |                | 2.44              |       |              |      |            |       |            |             |             |
|      | 7     | 4      | 70.68     | 71.28    | 0.60   | 1960.9 | 5,13  | 0.54 | 21.47 | 22,51 | 22.63  | 1.22 | 1.28    | 1.29 | 0.64         | 0.02     | 0.62           | 1.50              |       |              |      |            |       |            |             |             |
|      | Flr   | 5      | 71,28     | 71.60    | 0.32   | 853.8  | 6.54  | 0.81 | 59,30 | 62,94 | 63,45  | 1.28 | 1.36    | 1.37 |              |          |                | , 2.05            |       |              |      |            |       |            |             |             |
|      | ?     | 6      | 84,86     | 85,63    | 0.77   | 348.4  | 9.75  | 0.82 | 11.72 | 12,88 | 12,99  | 0,89 | 0,98    | 0.99 |              |          |                | . 1.40            |       |              |      |            |       |            |             |             |
|      | ?     | 7      | 89,69     | 90.07    | 0,38   | 1866,6 | 4,25  | 0.54 | 30.19 | 31,36 | 31.53  | 0,68 | 0,71    | 0.71 |              |          |                | 1,59              |       |              |      |            |       |            |             |             |
|      | Rf    | 8      | 100,85    | 101.23   | 0.38   | 1050.2 | 4,46  | 0.74 | 80.97 | 84.12 | 84,75  | 0.07 | Ó.07    | 0.07 |              |          |                | 2.55              |       |              |      |            |       |            |             |             |
|      | 1     | 9&10   | 101,23    | 101.75   | 0,52   | 2046,5 | 6.19  | 0,72 | 37.69 | 39.89 | 40.18  | 0,22 | 0.23    | 0.23 |              |          |                | 1.69              |       |              |      |            |       |            |             |             |
|      | 1     | 11     | 101.75    | 102.80   | 1.05   | 4056.0 | 3,36  | 0.76 | 20.78 | 21.34 | 21.50  | 0.25 | 0.26    | 0.26 |              |          |                | 1.48              |       |              |      |            |       |            |             |             |
|      | Flr   | 12     | 102.80    | 102.93   | 0.13   | 686.7  | 5,01  | 0.64 | 55,54 | 58.10 | 58.47  | 0.11 | 0.12    | 0.12 |              |          |                | 1.97              |       |              |      |            |       |            |             |             |
|      | ?     | 13     | 108.95    | 109.42   | 0.47   | 1404.6 | 4,32  | 0,64 | 29.58 | 30,72 | 30.92  | 0.39 | 0.41    | 0.41 |              |          |                | 1.58              |       |              |      |            |       |            |             |             |
|      | ?     | 14     | 109,42    | 109,86   | 0.44   | 1809.5 | 3.45  | 0.77 | 45.08 | 46.33 | 46.69  | 0,25 | 0,26    | 0.26 |              |          |                | 1.78              |       |              |      |            |       |            |             |             |
|      | Rf    | 15     | 118,14    | 118.41   | 0.27   | 1115,4 | 2.90  | 0.63 | 66.86 | 68,42 | 68,85  | 0,14 | 0,14    | 0.14 |              |          |                | 2.16              |       |              |      |            |       | •          |             |             |
|      | ?     | 16&17  | 118,41    | 119,40   | 0,99   | 3510,7 | 4,71  | 0,68 | 27.09 | 28.24 | 28,43  | 0.33 | 0,34    | 0.34 |              |          |                | 1.56              |       |              |      |            |       |            |             |             |
|      | ?     | 18     | 119.40    | 120.25   | 0.85   | 4192.4 | 3,98  | 0.74 | 47,80 | 49.41 | 49.78  | 0.24 | 0.25    | 0.25 |              |          |                | 1.83              |       |              |      |            |       |            | ,           |             |
|      | Flr   | 19     | 120.25    | 120.55   | 0.30   | 858.2  | 3.04  | 0,63 | 76.89 | 78,80 | 79.30  | 0.07 | 0.07    | 0.07 |              |          | •              | 2.41              |       |              |      |            |       |            |             |             |

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| HOLE      | SEAM  | SAMPLE | DRILLED I<br>From | INTERVAL<br>To | SAMPLE<br>THKNES | REJECT<br>WEIGHT | MOIST    | TURE |         | ASH<br>%   | <u></u>                               | то    | ГАL SUI<br>% | .FUR | SULF     | UR FORN<br>% | 45      | SPECI    | FIC .    | Calo<br>I<br>Finier | d %ages bj<br>rock volume | y 1  | Cale'd %ag<br>rock de | es by<br>nsity | Calo'd raw<br>composite | Cale'd raw<br>composite | Calc'd S.G.<br>on scam |
|-----------|-------|--------|-------------------|----------------|------------------|------------------|----------|------|---------|------------|---------------------------------------|-------|--------------|------|----------|--------------|---------|----------|----------|---------------------|---------------------------|------|-----------------------|----------------|-------------------------|-------------------------|------------------------|
| #         |       | #      | (1                | m)             | (m)              | (gms)            | A.R.     | A.D. | 'A.R.   | A.D.       | D.B.                                  | A.R.  | A.D.         | D.B. | <u> </u> | - A.D        |         | (Meas'd) | (Calc'd) | here                | 0.00                      | 0.00 | 0.00                  | 0.00           | asii (DD)               | 5010L (DD)              | 0.00                   |
| T93R-40C  |       | 1      | 9.43              | 9.61           | 0.18             |                  | <u> </u> |      |         | ********** | · · · · · · · · · · · · · · · · · · · |       |              |      | Pyritic  | Sulfate      | Organic |          | •        |                     |                           |      |                       |                |                         |                         |                        |
| 17776-100 | Rf    | 2      | 10.47             | 10.91          | 0.44             | 2476.8           | 8.75     | 0.68 | 74 14   | 80.69      | 81.24                                 | 3 67  | 3.04         | 3.07 |          |              |         |          | 246      |                     |                           |      |                       |                |                         |                         |                        |
|           | •     | 3      | 10.91             | 11.69          | 0.78             | 4038.5           | 6.51     | 0.60 | 12.60   | 13.40      | 13.48                                 | 1.79  | 1.90         | 1.91 |          |              |         |          | 2,40     |                     |                           |      |                       |                |                         |                         |                        |
|           |       | 4&5    | 11.69             | 12.73          | 1.04             | 5689.6           | 6.63     | 0.54 | 14.58   | 15.53      | 15.61                                 | 0.69  | 0 74         | 0.74 |          |              |         |          | 1.41     |                     |                           |      |                       |                |                         |                         |                        |
|           |       | 6      | 12.73             | 13.15          | 0.42             | 1724.4           | 9.60     | 0.57 | 10.73   | 11.80      | 11.87                                 | 0.070 | 0.77         | 0.77 |          |              |         |          | 1.75     |                     |                           |      |                       |                |                         |                         |                        |
|           | Flr   | 7      | 13.15             | 13.35          | 0.20             | 2472.8           | 6.21     | 0.52 | 83.68   | 88.76      | · 89.22                               | 0.15  | 0.16         | 0.16 |          |              |         |          | 270      |                     |                           |      |                       |                |                         |                         |                        |
|           | Rf    | 8      | 29.15             | 29.39          | 0.24             | 1916.2           | 5.35     | 0.42 | 84.07   | 88.45      | 88.82                                 | 1.69  | 1.78         | 1.79 |          |              |         |          | 2.69     |                     |                           |      |                       |                |                         |                         |                        |
|           |       | 9      | 29,39             | 30,35          | 0.96             | 5232.6           | 7.51     | 0.38 | 17.20   | 18.52      | 18.59                                 | 2.14  | 2.31         | 2.32 | 1.23     | 0.02         | 1.05    | 1.45     | 1.45     |                     |                           |      |                       |                |                         |                         |                        |
|           | Flr   | 10     | 30,35             | 30,60          | 0.25             | 1773.8           | 4.45     | 0.29 | . 85.26 | 88.98      | 89.24                                 | 0.11  | 0.11         | 0.11 | 1.20     | 0.02         | 1,00    | *****    | 2 71     |                     |                           |      |                       |                |                         |                         |                        |
|           | ?     | 11     | 34.34             | 34,49          | 0,15             | 618.0            | 7.11     | 0,30 | 19.68   | 21.12      | 21.18                                 |       |              |      |          |              |         |          | 1.48     |                     |                           |      |                       |                |                         |                         |                        |
|           |       | 12     | 34.49             | 35.59          | 1.10             |                  |          |      |         |            |                                       |       |              |      |          |              |         |          |          |                     |                           |      |                       |                |                         |                         |                        |
|           | 7     | 13     | 35,59             | 35.79          | 0.20             | 1171,4           | 8.29     | 0,44 | 29.44   | 31.96      | 32.10                                 | •     |              |      |          |              |         | •        | 1.60     | •                   |                           |      |                       |                |                         |                         |                        |
|           | Rf    | 14     | 35,79             | 36,62          | 0.83             | 1873.7           | 5.47     | 0.26 | 82,88   | 87,45      | 87.68                                 | 2.46  | 2.60         | 2.61 |          |              |         |          | 2.66     |                     |                           |      |                       |                |                         |                         |                        |
|           |       | 15     | 36,62             | 37.41          | 0,79             | 5604.2           | 5.21     | 0,32 | 26,91   | 28.30      | 28.39                                 | 1.85  | 1.95         | 1.96 | 1.17     | 0.06         | 0.72    |          | 1 56     |                     |                           |      |                       |                |                         |                         |                        |
|           | Prtng | 16     | 37.41             | 37.69          | 0,28             | 2447,3           | 4.51     | 0.36 | 68,75   | 71.74      | 72.00                                 | 4.93  | 5.14         | 5.16 | 3.09     | 0.02         | 2.03    |          | 2.24     |                     |                           |      |                       |                |                         |                         |                        |
|           |       | 17     | 37.69             | 38.51          | 0.82             | 4155,2           | 7,60     | 0.55 | 8.94    | 9,62       | 9.67                                  | 0,62  | 0,67         | 0.67 | 0.11     | 0.01         | 2.49    |          | 1.38     |                     | •                         |      |                       |                |                         |                         |                        |
|           | Fir   | 18     | 38,51             | 38,76          | 0.25             | 2158.6           | 3,36     | 0,23 | 72.93   | 75.29      | 75.46                                 | 0.15  | 0.15         | 0,15 |          |              |         |          | 2.32     |                     |                           |      |                       |                |                         | - •                     |                        |
|           | Rf    | 19     | 49,63             | 49.93          | . 0,30           | 1648.0           | 4,12     | 0.33 | 78,68   | 81.79      | 82.06                                 | 0.82  | 0.85         | 0.85 |          |              |         |          | 2.49     |                     |                           |      |                       |                |                         |                         |                        |
|           |       | 20     | 49.93             | 50.85          | 0.92             | 4780.2           | 5.68     | 0.46 | 7.81    | 8,24       | 8,28                                  | 0.91  | 0.96         | 0.96 |          |              |         |          | 1.36     |                     |                           |      |                       |                |                         |                         |                        |
|           |       | 21     | 50.85             | 51.57          | 0.72             | 3134.7           | 8.23     | 0.51 | 17.13   | 18.57      | 18.67                                 | 0,41  | 0.44         | 0.44 |          |              |         |          | 1.46     |                     |                           |      |                       |                |                         |                         |                        |
|           |       | 22     | 51.57             | 53.05          | 1.48             | 7739,8           | 7.68     | 0.51 | 11.16   | 12.03      | 12,09                                 | 0,45  | 0,48         | 0.48 |          |              |         |          | 1,40     |                     |                           |      |                       |                |                         |                         |                        |
|           | Prtng | 23-25  | 53,05             | 54.08          | 1.03             | 8934.4           | 5,64     | 0,62 | 60.11   | 63.31      | 63.70                                 | 1,16  | 1.22         | 1.23 | 0,87     | 0.01         | 0.34    |          | 2,06     |                     |                           |      |                       |                |                         |                         |                        |
|           |       | 26     | 54,08             | 54,96          | 0,88             | 5063.3           | 7.99     | 0.69 | 10,80   | 11.66      | 11.74                                 | 0.49  | 0,53         | 0,53 |          |              |         |          | 1.39     |                     |                           |      |                       |                |                         |                         |                        |
|           |       | 27-29  | 54,96             | 56,73          | 1.77             | 9371.7           | 7.65     | 0.50 | 24.11   | 25,98      | 26.11                                 | 0.35  | 0.38         | 0.38 |          |              |         |          | 1.53     |                     |                           |      |                       |                |                         |                         |                        |
|           |       | 30-32  | 56.73             | 58,35          | 1.62             | 7292,6           | 9.76     | 0.63 | 27,36   | 30,13      | 30.32                                 | 0.82  | 0.90         | 0.91 |          |              |         |          | 1.58     |                     |                           |      |                       |                | •                       |                         |                        |
|           |       | 33&34  | 58.35             | 60.70          | 2.35             | 9749.7           | 7,73     | 0.67 | 15.77   | 16.98      | 17.09                                 | 0,65  | 0,70         | 0.70 |          |              |         |          | 1,44     |                     |                           |      |                       |                |                         |                         |                        |
|           |       | 35&36  | 61.13             | 61.94          | 0.81             | 3345.2           | 6.05     | 0,68 | 16.67   | 17.62      | 17.74                                 | 0.78  | 0.82         | 0,83 |          |              |         |          | 1.45     |                     |                           |      |                       |                |                         |                         |                        |

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|          |           |        | DRILLED | INTERVAL | . SAMPLE | REJECT | MOIST     | TURE |        | ASH   |         | то     | TAL SUI    | FUR  | SU      | LEUR FO   | RMS     | SPEC     | IFIC     | Cal   | o'd %ages b<br>took volum | y.           | Cale'd %ag  | cs by        | Calc'd raw | Calc'd raw | Cale'd S.G.       |
|----------|-----------|--------|---------|----------|----------|--------|-----------|------|--------|-------|---------|--------|------------|------|---------|-----------|---------|----------|----------|-------|---------------------------|--------------|-------------|--------------|------------|------------|-------------------|
| HOLE     | SEAM      | SAMPLE | From    | To       | THENES   | WEIGHT | 6/        | ·    |        | . 9/  |         |        | •/         |      |         |           |         | CDU      |          | Enter | IOUR VOIDIN               | •<br>        | IOUR G      | asity        | - 1 (DD)   | composite  | on scam           |
| #        | WID CHAIN | #      | (       | m)       | (m)      | (gms)  | ,<br>A.R. | A.D. | · A.R. | A.D.  | D.B.    | A.R.   | /*<br>A.D. | D,B, |         | //<br>A.D |         | (Meas'd) | (Cale'd) | here  | sum<br>0,00               | prop<br>0,00 | sum<br>0,00 | prop<br>0.00 | asn (DB)   | sum (DB)   | composite<br>0.00 |
| ***      |           |        |         | ·····    |          |        |           |      |        |       |         |        |            |      | Pyritic | Sulfate   | Organic |          | •        |       |                           |              |             |              |            |            |                   |
| T93R-41C | Rf        | 1      | 50.50   | 50.72    | 0.22     |        |           |      |        |       |         |        |            |      |         |           | -       |          |          |       |                           |              |             |              |            |            |                   |
|          |           | 2      | 50.72   | 51.40    | 0.68     | 2198.2 | 5,01      | 0,57 | 21.83  | 22.85 | 22.98   | 3.70   | 3.87       | 3.89 | 2.17    | 0.02      | 1.68    | 1.51     | 1.51     |       |                           |              |             |              |            |            |                   |
|          | Rf        | 3      | 57.08   | 57.28    | 0.20     | 1488.6 | 3.97      | 0,40 | 62,08  | 64.39 | 64.65   | 5.88   | 6.10       | 6.12 |         |           |         |          | 2.08     |       |                           |              |             |              |            |            |                   |
|          |           | 4      | 57.28   | 58.25    | 0.97     | 4750,9 | 5.84      | 0.87 | 11,31  | 11.91 | . 12.01 | 2.39   | 2.52       | 2.54 | 1.22    | 0.01      | 1.29    |          | 1.40     |       |                           |              |             |              |            |            |                   |
|          | Flr       | 5      | 58.25   | 58.50    | 0.25     | 2082.1 | 4.24      | 0,69 | 85.78  | 88,96 | 89,58   | 1.22   | 1.27       | 1.28 |         |           |         |          | 2.71     |       |                           |              |             |              |            |            |                   |
|          | Rf        | 6      | 59,35   | 59.69    | · 0.34   | 1762.9 | 5.58      | 0.59 | 78,61  | 82.77 | 83,26   | 3.48   | 3.66       | 3.68 |         |           |         |          | 2.52     |       |                           |              |             |              |            | •          |                   |
|          |           | 7      | 59,69   | 60,42    | 0,73     | 3552,0 | 5.64      | 0.64 | 14,65  | 15.43 | 15.53   | 4,84   | 5,10       | 5.13 |         |           |         |          | 1,43     |       |                           |              |             |              |            |            |                   |
|          |           | 8      | 60.42   | 61.82    | 1.40     | 6330,2 | 7.12      | 0.69 | 14.39  | 15.39 | 15,50   | 2,96   | 3,16       | 3.18 |         |           |         |          | 1,43     |       |                           |              |             |              |            |            |                   |
|          | Flr       | 9      | 61,82   | 62,15 ·  | 0,33     | 1808.7 | 3,65      | 0.52 | 87.00  | 89.83 | 90.30   | 0.29   | 0.30       | 0.30 |         |           |         |          | 2,73     |       |                           |              |             |              |            |            |                   |
|          | Rf        | 10     | 75,50   | 75.80    | 0.30     | 1645.1 | 4,31      | 0,65 | 87.46  | 90.81 | 91.40   | 1,45   | 1.51       | 1.52 |         |           |         |          | 2.77     |       |                           |              |             |              |            |            |                   |
|          |           | 11     | 75.80   | 77.17    | 1.37     | 6705.5 | 7,13      | 0,73 | 20,62  | 22.04 | 22.20   | 1.24   | 1.33       | 1.34 |         |           |         |          | 1.49     |       |                           |              |             |              |            |            |                   |
|          |           | 12&13  | 77.17   | 78.52    | 1.35     | 6446.6 | 7.08      | 0,81 | 7.63   | 8,14  | 8.21    | 0.48   | 0.51       | 0.51 |         |           |         |          | 1.36     |       |                           |              |             |              |            |            |                   |
|          | Flr       | 14     | 78,52   | 78,77    | 0,25     | 2581.7 | 4.21      | 0.63 | 81.97  | 85.03 | 85,57   | 0,08   | 0.08       | 0.08 |         |           |         |          | 2,58     |       |                           |              |             |              |            |            |                   |
|          | 7         | 15     | 81.58   | 81.72    | 0.14     | 222,9  | 6,56      | 0.64 | 13.26  | 14,10 | 14.19   | 0.46   | 0,49       | 0,49 |         |           |         |          | 1.42     |       |                           |              |             |              |            |            |                   |
|          | Rf        | 16     | 86.00   | 86,20    | 0,20     | 1793.3 | 3,05      | 0,60 | 72.62  | 74.45 | 74.90   | 1,03   | 1.06       | 1.07 |         |           |         |          | 2,30     |       |                           |              |             |              |            |            |                   |
|          |           | 17&18  | 86.20   | 87.70    | 1.50     | 6929.0 | 6.78      | 0.96 | 14,21  | 15,10 | 15.25   | 0.46   | 0.49       | 0.49 | 0.09    | 0.01      | 0,40    | 1.42     | 1.42     |       |                           |              |             |              |            |            |                   |
|          |           | 19     | 87.70   | 88.37    | 0.67     | 6828.1 | 3.24      | 0,41 | 78.64  | 80,94 | 81,27   | 0.21   | 0.22       | 0.22 | 0.21    | 0.01      | 0,01    |          | 2.46     |       |                           |              |             |              |            |            |                   |
|          |           | 20     | 88,37   | 89,14    | 0,77     | 4214.1 | 6.78      | 0.64 | 26,72  | 28,48 | 28.66   | 2,04   | 2,17       | 2.18 | 1.32    | 0.02      | 0,83    |          | 1,56     |       |                           |              |             |              |            |            |                   |
|          | Flr       | 21     | 89.14   | 89.58    | 0.44     | 3851,0 | 4.93      | 0.67 | 80.69  | 84.31 | 84.88   | 0.70   | 0.73       | 0,73 |         |           |         |          | 2,56     |       |                           |              |             |              |            |            |                   |
|          | Rf        | . 22   | 94.00   | 94,32    | 0.32     | 1977.0 | 3,48      | 0,60 | 82.24  | 84.69 | 85.20   | 4,31   | 4,44       | 4.47 |         |           |         |          | 2.57     |       |                           |              |             |              | •          |            |                   |
|          |           | 23     | 94.32   | 94.91    | 0.59     | 3090.1 | 6,20      | 0.63 | 20,36  | 21.57 | 21.71   | 2.73   | 2.89       | 2.91 |         |           |         |          | 1.49     |       |                           |              |             |              |            |            |                   |
| •        | Flr       | 24     | 94.91   | 95.22    | 0.31     | 1951.4 | 3.38      | 0,69 | 86,69  | 89,11 | 89.73   | 0.19   | 0.20       | 0.20 |         |           |         |          | 2.71     |       |                           |              |             |              |            |            |                   |
|          |           | 25     | 111,20  | 111,52   | 0,32     | 1066,8 | 3.35      | 0.62 | 38,14  | 39,22 | 39.46   | 3,50   | 3,60       | 3.62 |         |           |         |          | 1.68     |       | •                         |              |             |              |            |            |                   |
|          | Rf        | 26     | 111.52  | 112.54   | 1.02     | 2198.3 | 4.43      | 0.80 | 78.68  | 81.67 | 82,33   | 3,39   | 3.52       | 3,55 |         |           |         |          | 2,48     |       |                           |              |             |              |            |            |                   |
|          |           | 27     | 112,54  | 113.60   | 1.06     | 5410.4 | 5,99      | 0,62 | 18.40  | 19.45 | 19.57   | 1,08   | 1.14       | 1.15 | 0.59    | 0,01      | 0.55    |          | 1.47     |       |                           |              |             |              |            | •          |                   |
|          | Fir       | 28     | 113.60  | 113.73   | 0.13     | 1005,4 | 5.21      | 0,97 | 81,67  | 85,32 | 86.16   | ` 2.10 | 2.19       | 2.21 |         |           |         |          | 2.59     |       |                           |              |             |              |            |            |                   |
|          |           | 29     | 114.16  | 114.44   | 0.28     | 2384.9 | 4.68      | 0.63 | 31.47  | 32,81 | 33,02   | 1.24   | 1.29       | 1.30 |         |           |         |          | 1.61     |       |                           |              |             | -            |            |            |                   |
|          |           | 30     | 114,78  | 115.15   | 0,37     | 1065.8 | 5.57      | 0.62 | 14.97  | 15,75 | 15.85   | 1,33   | 1,40       | 1.41 |         |           |         |          | 1,43     |       |                           |              |             |              |            |            |                   |
|          |           | 31     | 118,81  | 119,17   | 0,36     | 1575,0 | 9.94      | 0.49 | 24.19  | 26,73 | 26,86   | 1.92   | 2,12       | 2,13 |         |           |         |          | 1.54     |       |                           |              |             |              |            |            |                   |
|          |           | 32&33  | 120,52  | 122.25   | 1,73     | 3992.4 | 6,93      | 0.52 | 51.45  | 54.99 | 55.28   | 1,53   | 1.64       | 1.65 |         |           |         |          | 1.91     |       |                           |              |             |              |            |            |                   |
|          |           | 34     | 123,67  | 123,87   | 0,20     | 1212.2 | 3,37      | 0.27 | 46.71  | 48.21 | 48.34   | ' 0,59 | 0.61       | 0.61 |         |           |         |          | 1,81     |       |                           |              |             |              |            |            |                   |
|          | Rſ        | 35     | 124,50  | 124,82   | 0.32     | ,      |           |      | · .    |       |         |        |            |      |         |           |         |          |          |       |                           |              |             |              |            | •          |                   |
| •        |           | 36     | 124,82  | 125.37   | 0.55     | 2749.2 | 4,33      | 0.55 | 15,35  | 15.96 | 16.05   | 1.64   | 1.71       | 1.72 |         |           |         |          | 1.43     |       |                           |              |             |              |            |            |                   |
|          | Flr       | 37     | 125.37  | 125.65   | 0.28     |        |           |      |        |       |         |        |            |      |         |           |         |          |          |       |                           |              |             |              |            |            |                   |
|          |           |        |         |          |          |        |           |      |        |       |         |        |            |      |         |           |         |          |          |       |                           |              |             |              |            |            |                   |

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| HOLE     | DRILLED<br>HOLE SEAM SAMPLE From |           | INTERVAL<br>To | SAMPLE | REJECT | MOIST  | TURE | <u>,</u> , | ASH   |                | то      | TAL SUI | LFUR | SU   | LFUR FO | RMS     | SPEC    | IFIC     | Cal      | o'd %ages b<br>rock volum | y 1<br>c    | Cale'd %ag<br>rock dei | cs by<br>nsity | Calc'd raw<br>composite | Calc'd raw<br>composite | Calc'd S.G<br>on seam |                   |
|----------|----------------------------------|-----------|----------------|--------|--------|--------|------|------------|-------|----------------|---------|---------|------|------|---------|---------|---------|----------|----------|---------------------------|-------------|------------------------|----------------|-------------------------|-------------------------|-----------------------|-------------------|
| #        | UBAIN                            | #         | (              | m)     | (m)    | (gms)  | A.R. | A.D.       | A.R.  |                | D.B.    | A.R.    | A.D. | D.B. |         | A.D     |         | (Meas'd) | (Calc'd) | here                      | 50m<br>0.00 | ргор<br>0,00           | sum<br>0,00    | ргор<br>0,00            | asn (DB)                | sunar (DB)            | composite<br>0,00 |
| 2020 400 |                                  |           | 16.46          | 15.56  | A 11   |        |      |            |       |                |         |         |      |      | Pyritic | Sulfate | Organic |          |          |                           |             |                        | ····           |                         |                         |                       |                   |
| 193K-42C | K                                | 1         | 15.45          | 15.30  | · 0.02 | 2042.2 | 7.07 | 0.74       | 0.66  | 10.00          | * 10.90 | 0.07    |      | 1.00 |         |         |         |          |          |                           |             |                        |                |                         |                         |                       |                   |
|          | Deine                            | 2         | 15.45          | 17.42  | 1.00   | 3743,3 | 1.07 | 0,74       | 9,55  | 10.20          | 10.25   | 0.97    | 0.04 | 1.05 | 0.30    | 0.01    | 0.74    |          | 1.38     |                           |             |                        |                |                         |                         | v                     |                   |
|          | ring                             | 1         | 17.42          | 18 72  | 0.91   | 3641.7 | 9,55 | 0.01       | 10.01 | 11 47          | 11 76   | 1.20    | 1 20 |      | 0.00    |         |         | 1.20     | 2.02     | *                         |             |                        |                |                         |                         |                       |                   |
|          | El-                              | 4         | 18 22          | 19.55  | 0.01   | 1021 7 | 2.76 | 0,70       | 76.06 | 70.12          | 70.96   | 1.40    | 1.30 | 1.31 | 0,00    | 0.01    | 0.09    | . 1,38   | 1.38     |                           |             |                        |                |                         |                         |                       |                   |
|          | ru                               | 5         | 33.42          | 10,00  | 0.49   | 2050 7 | 5.70 | 0.55       | 20.00 | 79.12          | 79,00   | 4,27    | 4.40 | 4.44 |         |         |         |          | 2,42     |                           |             |                        |                |                         |                         |                       |                   |
|          | Df                               | 7         | 2/ 90          | 25 12  | 0.42   | 1091.6 | 5.09 | 0.00       | 20,23 | 21,20          | 21.33   | 2,13    | 2,00 | 2.90 |         |         |         |          | 1,48     |                           |             |                        |                |                         |                         |                       |                   |
|          | N                                | 7.<br>780 | 25 17          | 26.28  | 1 16   | 1001.0 | 5.00 | 0.75       | 10.10 | 00.93          | 01.10   | 0.00    | 0,90 | 0.91 | ·       |         | A 49    |          | 2.64     |                           |             |                        |                |                         |                         |                       |                   |
|          | Et.                              | 10        | . 26.29        | 36.44  | 1.10   | 2070.2 | 5.72 | 0.70       | 17.12 | 20.17          | 20.55 . | 0.80    | 0.64 | 0.85 | . 0.40  | 0.01    | 0.43    |          | 1.47     |                           |             |                        |                |                         |                         |                       |                   |
|          | гц<br>р£                         | 10        | 20.25          | 20.33  | 0.27   | 2079,5 | 5,04 | 0.02       | 74.04 | 70.07          | 17.40   | 0.15    | 0.19 | 0.19 |         |         |         |          | 2.41     |                           |             |                        |                |                         |                         |                       |                   |
|          | M                                | 12        | 20.12          | 20 50  | 0.25   | 2102.0 | 5 41 | 0.75       | 26.20 | 01.73<br>27 EA | 92.10   | 1.35    | 1,43 | 1.44 |         |         |         |          | 2.49     |                           |             |                        |                |                         |                         |                       |                   |
|          | Fir                              | 12        | 30.10          | 30.85  | 0.40   | 1660.6 | 6 20 | 0.75       | 25.00 | 37,34<br>00.70 | 01.62   | 2.30    | 0.76 | 2.13 |         |         |         |          | 1.00     |                           |             |                        |                |                         |                         |                       |                   |
|          | 1.11                             | 14        | A3 A7          | 13 96  | 0.20   | 1227 4 | 7.95 | 0,00       | 27.76 | 22.02          | 24.16   | 201     | 0.20 | 0.20 |         |         |         |          | 2.77     |                           |             |                        |                |                         |                         |                       |                   |
| -        |                                  | 15        | 44.00          | 45.04  | 0,77   | 601.2  | 7.05 | 0.05       | 19 06 | 20,30          | 24.10   | 1.14    | 1.02 | 2,10 | •       |         |         |          | 1.51     |                           |             |                        |                |                         |                         |                       |                   |
|          |                                  | 15        | 44.22          | 47.04  | 0.62   | 001,2  | 1.71 | 0.75       | 10.70 | 20.41          | 20.01   | 1.14    | 1,23 | 1.24 |         |         |         |          | 1,47     |                           |             |                        |                |                         |                         |                       |                   |
| T93R-43C | Ŕſ                               | 1         | 19.53          | 19.98  | 0.45   | 3209.7 | 6.02 | 0.90       | 72.36 | 76,30          | 76.99   | 1.93    | 2,04 | 2.06 |         |         |         |          | 2.34     |                           | •           | •                      |                |                         |                         |                       |                   |
|          |                                  | 2         | -19.98         | 20,27  | 0,29   | 1219.8 | 5.02 | 0.91       | 31.92 | 33.30          | 33,61   | 1.54    | 1.61 | 1.62 | •       |         |         |          | 1.61     |                           | •           |                        |                |                         |                         |                       |                   |
|          | Flr                              | 3         | 20.27          | 20,66  | 0.39   | 2457,5 | 5,71 | 0,87       | 77,22 | 81.19          | 81.90   |         |      |      |         |         |         |          | 2.47     |                           |             |                        |                |                         |                         |                       |                   |
|          | •                                | 4         | 21,90          | 22.21  | 0.31   | 1810.6 | 5.30 | 0,68       | 26,31 | 27.59          | 27.78   | 2.63    | 2.76 | 2,78 | 1.50    | 0.02    | 1.24    |          | 1.55     |                           |             |                        |                |                         |                         |                       |                   |
|          | Rf                               | 5         | 24.00          | 24.32  | 0.32   | 2396.7 | 5.68 | 0,61       | 76,78 | 80,91          | 81,41   | 3.09    | 3.26 | 3.28 |         |         |         |          | 2.46     |                           |             |                        |                |                         |                         |                       |                   |
|          |                                  | 6         | 24.32          | 24.71  | 0.39   | 2077.2 | 5.86 | 0.76       | 22,20 | 23,40          | 23,58   | 1,62    | 1,71 | 1.72 |         |         |         |          | 1.50     |                           |             |                        |                |                         |                         |                       |                   |
|          | Pring                            | 7         | 24,71          | 25,01  | 0,30   | 834.3  | 7.78 | 0.78       | 61.50 | 66.16          | 66,68   | 2,70    | 2.90 | 2,92 | 0.16    | 0.01    | 2.74    | •        | 2,12     |                           |             |                        |                |                         |                         |                       |                   |
|          |                                  | 8&9       | 25.01          | 26,54  | 1,53   | 8428,3 | 6.71 | 0.92       | 15.39 | 16.35          | 16.50   | 0.65    | 0,69 | 0,70 | 0,16    | 0.01    | 0.53    |          | 1.44     |                           |             |                        |                |                         |                         |                       |                   |
|          |                                  | 10&11     | 26.54          | 27.18  | 0.64   | 5450,6 | 5.18 | 0,79       | 84.83 | 88,76          | 89.47   | 0.46    | 0.48 | 0.48 |         |         |         |          | 2.70     |                           |             |                        |                |                         |                         |                       |                   |
|          |                                  | 12        | 27.18          | 27.55  | 0.37   | 2631.3 | 5.07 | 0.86       | 25.46 | 26,59          | 26,82   | 2,60    | 2.72 | 2.74 |         |         |         |          | 1.54     |                           |             |                        |                |                         |                         |                       |                   |
|          | Fir                              | 13        | 27.55          | 27.79  | 0.24   | 1684.2 | 6.88 | 0.85       | 82,22 | 87,54          | 88.29   | 0.16    | 0.17 | 0.17 |         |         |         |          | 2.66     |                           |             |                        |                |                         |                         |                       |                   |

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10/22/96 .

| Bit No. E         Status         Stat                                                                                                                                                                                      | Cale'd S.G.<br>on seam | Cale'd raw<br>composite | Calc'd raw<br>composite | s by<br>Isity | Calc'd %age:<br>rock den: | , (  | cs by | ale'd %ages<br>rock volu | Cr    | SPECIFIC          | 5              | UR FORMS | SUL           | TUR     | AL SULF | тот  |       | ASH   |        | fure  | MOIST        | REJECT | . SAMPLE | DRILLED INTERVAL SAM<br>SAMPLE From To THK |       |            |             |         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|-------------------------|---------------|---------------------------|------|-------|--------------------------|-------|-------------------|----------------|----------|---------------|---------|---------|------|-------|-------|--------|-------|--------------|--------|----------|--------------------------------------------|-------|------------|-------------|---------|
| n         (a)         (b)                                                                                                                                                                                                                                                                                                        | composite              | sulfur (DB)             | ash (DB)                | prop          | sum                       | prop | am    | sum                      | Enter | GRAVITY           |                | %        |               | <u></u> | %       |      | ·     | %     |        | i — i | %            | WEIGHT | THKNES   | To                                         | From  | SAMPLE     | SEAM        | HOLE    |
| Type-4         1         1         9         8         7         6         9         9         2         3         2         3         2         1         1         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <th>0.00</th> <th></th> <th></th> <th>0.00</th> <th>0.00</th> <th>0.00</th> <th>0</th> <th>0.00</th> <th>here</th> <th>(Meas'd) (Calc'd)</th> <th></th> <th>· A.D</th> <th>Dentita</th> <th>D.B.</th> <th>A.D.</th> <th>A.R.</th> <th>D.B.</th> <th>A.D.</th> <th>A.R.</th> <th>A.D.</th> <th>A.R.</th> <th>(gms)</th> <th></th> <th>n)<br/></th> <th>()</th> <th>#</th> <th></th> <th>#</th> | 0.00                   |                         |                         | 0.00          | 0.00                      | 0.00 | 0     | 0.00                     | here  | (Meas'd) (Calc'd) |                | · A.D    | Dentita       | D.B.    | A.D.    | A.R. | D.B.  | A.D.  | A.R.   | A.D.  | A.R.         | (gms)  |          | n)<br>                                     | ()    | #          |             | #       |
| Fir       2       20.71       20.30       0.22       90.00       8.85       0.55       76.40       10.46       80.22       2.06       2.12       2.22       1.10       1.44       1.24         10       46.5       25.39       0.81       0.83       0.84       0.84       0.80       1.00       2.22       2.33       1.97       0.11       1.14       1.24         10       46.5       25.39       0.81       0.83       0.55       0.81       0.81       0.91       0.11       1.14       1.24       1.25         9       7       2.84       0.30       1.45       0.21       0.23       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21                                                                                                                                                                                                                                                                                                                                                                               |                        |                         |                         |               |                           |      |       |                          |       | 1.49              | rganic<br>0.71 | 0.04 0   | 0.81          | 1.56    | 1.56    | 1,45 | 22,32 | 22.25 | 20.61  | 0,30  | 7,64         | 2482.3 | 0,66     | 20,71                                      | 20.05 | 1          | 11          | T93D-44 |
| RI       S       S       S       O       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P       P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |                         |                         |               |                           |      |       |                          |       | 2.54              |                |          |               | 2.22    | 2.21    | 2,03 | 83.92 | 83.46 | 76.49  | 0,55  | 8,85         | 950.0  | 0.22     | 20.93                                      | 20.71 | 2          | Flr         |         |
| Ind       46.8       25.92       2.81.8       0.80       94.17       0.73       1.88       0.82       0.50       0.22       0.23       0.17       0.11       1.44       1.42         FE       6       0.23.4       2.07       0.33       1.41.2       0.31       0.23       0.23       0.23       0.21       0.21       0.21       0.21       0.22       0.23       0.21       0.21       0.21       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.22       0.23       0.24       0.25       0.27       0.21       0.24       0.25       0.22       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.22       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21       0.21                                                                                                                                                                                                                                                                                                                                                                |                        |                         |                         |               |                           |      |       |                          |       | 2.64              |                |          |               | 2,79    | 2.78    | 2,65 | 87.22 | 86.86 | 82.64  | 0.41  | 5.24         | 1428.6 | 0.29     | 25.29                                      | 25.00 | 3          | Rf          |         |
| Fir       6       2.5.8       6.7.4       2.6.9       5.4.6       2.10       8.4.7       8.4.0       8.9.4       0.4.0       0.11       0.11       0.11       0.15       1.56         RC       8       0.30       0.3.0       0.3.0       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1       0.3.1                                                                                                                                                                                                                                                                                                                                  |                        |                         |                         |               |                           |      |       |                          |       | 1:42              | 1.14           | 0.11 1   | 1.97          | 3,23    | 3,22    | 3.02 | 14.92 | 14.88 | 13,98  | 0,28  | 6.34         | 3431.7 | 0.89     | 26.18                                      | 25.29 | 4&5        | 10          |         |
| 9       7       2.7.4       9.07       0.30       14.26       0.21       0.23       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37       25.37                                                                                                                                                                                                                                                                                                                |                        |                         |                         |               |                           |      |       |                          |       | 2,73              |                |          | •             | 0.51    | 0.51    | 0.48 | 89.84 | 89.60 | 84,87  | 0.27  | <b>Š.</b> 54 | 1545.9 | 0,25     | 26,43                                      | 26,18 | 6          | Flr         |         |
| Rf       8       9.308       31.84       9.028       10.018       5.00       0.12       7.00       0.12       9.01       0.125       0.117       6.768       0.01       0.10       13.25       3.24       11.17       4.561       0.17       6.768       0.17       0.70       0.71       0.20       1.52       1.52       1.54         8       11       3.242       3.20       0.24       0.24       0.26       0.24       1.70       0.70       0.20       0.50       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60       0.60                                                                                                                                                                                                                                                                                                                                                               |                        |                         |                         |               |                           |      |       |                          |       | 1.56              | 1.24           | 0,31 1   | 7,11          | 8.68    | 8.66    | 8.05 | 28.42 | 28,35 | 26,37  | 0.23  | 7.21         | 1412,6 | 0,33     | 29.07                                      | 28,74 | 7          | 9           |         |
| 8       9       31.68       31.25       31.24       1.17       62.85       50.5       0.07       33.20       32.63       52.87       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.70       6.60       6.70       6.77       6.77       6.70       6.60       6.70       6.77       6.70       6.61       6.67       6.77       6.77       6.61       6.16       6.77       6.77       6.61       6.16       6.77       6.77       6.61       6.16       6.77       6.77       6.61       6.16       6.77       6.77       6.61       6.16       7.77       6.77       6.61       6.57       6.77       6.77       6.61       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77       6.77                                                                                                                                                                                                                                                                                                                                                        |                        |                         |                         |               |                           |      |       |                          |       | 2.52              |                |          |               | 3.56    | 3.55    | 3.38 | 83,18 | 82.98 | 78.95  | 0.24  | 5.09         | 1061,8 | 0,28     | 31.08                                      | 30,80 | 8          | Rf          |         |
| 8       110       3125       24.4       21.7       454.8       7.4       0.30       16.00       1.99       2.05       2.1       2.2       1.45         8       11       32.42       32.00       02.00       967.3       6.67       0.10       81.01       12.01       12.00       05.00       05.00       0.07       12.00       12.00         Rf       13       56.45       56.69       0.42       196.00       3.28       0.24       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01       12.01 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.64</td><td></td><td></td><td></td><td>6.77</td><td>6.77</td><td>6,43</td><td>35.28</td><td>35,26</td><td>33,50</td><td>0.07</td><td>5,05</td><td>628,8</td><td>0.17</td><td>31.25</td><td>31.08</td><td>9</td><td>8</td><td></td></t<>         |                        |                         |                         |               |                           |      |       |                          |       | 1.64              |                |          |               | 6.77    | 6.77    | 6,43 | 35.28 | 35,26 | 33,50  | 0.07  | 5,05         | 628,8  | 0.17     | 31.25                                      | 31.08 | 9          | 8           |         |
| 8       11       32,42       32,00       0.28       94,84       0,28       10,0       12,01       12,01       12,01       0,55       0,60       0,60       0,60       0,60       0,60         R       13       56,45       56,69       0,24       196,0       32,8       0,28       0,21       82,35       51,6       53,2       53,3       2.50       0,7       122       1,40         6U       144,15       56,69       58,14       14,5       590,22       33,0       0,24       154,6       164       164       164       164       16,6       16       12       1,42       1,42         Fir       16       58,14       53,57       0,12       144,26       32,7       73,57       76,77       80,2       2,59       2,60       1,24       1,43       1,43         Fir       20       61,21       61,50       0.32       231,6       33,7       13,31       15,36       2,59       2,60       1,24       1,24       1,24       1,24       1,24       1,24       1,24       1,24       1,24       1,24       1,24       1,24       1,24       1,24       1,24       1,24       1,24       1,24       1,24 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.45</td><td></td><td></td><td></td><td>2.22</td><td>2.21</td><td>2.05</td><td>17.99</td><td>17.94</td><td>16.60</td><td>0.30</td><td>7,74</td><td>4548.7</td><td>1.17</td><td>32.42</td><td>31.25</td><td>10</td><td>8</td><td></td></th<>                                                 |                        |                         |                         |               |                           |      |       |                          |       | 1.45              |                |          |               | 2.22    | 2.21    | 2.05 | 17.99 | 17.94 | 16.60  | 0.30  | 7,74         | 4548.7 | 1.17     | 32.42                                      | 31.25 | 10         | 8           |         |
| Fir       I.2       32.0       30.00       0.00       96.73       6.67       0.10       87.45       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.16       0.17       0.18       0.16       0.16       0.17       0.16       0.12       0.16       0.16       0.17       0.10       0.12       1.44         GU       146.15       56.86       0.21       144.25       0.25       0.21       144.25       0.26       0.25       0.07       1.22       1.44       1.44         R1       15       52.5       93.77       0.21       144.4       15.3       15.6       2.5       2.50       2.60       1.47       0.10       1.08       1.43         R1       10.5       93.77       0.21       1.33       0.44       0.40       1.41       1.20       2.51       2.51       2.51       2.51       2.51       2.51       2.51       2.51       2.51       2.51       2.51       2.51       2.51       2.51       2.51       2.51       2.51                                                                                                                                                                                                                                                                                                                                                                                  |                        |                         |                         |               |                           |      |       |                          |       | 1.40              |                |          |               | 0.60    | 0.60    | 0,55 | 12.04 | 12.01 | 11.03  | .0,28 | 8,43         | 948.0  | 0.28     | 32.70                                      | 32.42 | 11         | 8           | •       |
| Rf       13       56.49       56.69       52.41       14.54       590.20       23.83       0.25       73.95       76.78       76.97       1.63       1.69       1.69       0.07       1.22       1.44         Fir       16       58.14       58.35       0.21       1442.5       3.93       0.25       73.95       76.78       76.97       1.63       1.69       1.69       0.07       1.22       1.24         Rf       17       59.55       58.71       0.12       174.4       48.8       0.32       83.80       86.51       86.75       2.59       2.60       2.60       2.63         GL       188.15       68.10       0.58       16.14       49.84       4.05       0.31       15.34       15.35       2.51       2.60       2.60       2.63         Fir       20       61.16       68.19       0.58       164.12       3.33       0.45       80.67       2.18       1.33       1.84       0.30       0.65       1.71       1.33         7       21       67.61       68.19       0.58       163.1       15.37       15.37       15.37       15.37       15.37       1.34         7       22       67.6                                                                                                                                                                                                                                                                                                                                                                                              |                        |                         |                         |               |                           |      |       |                          |       | 2.66              |                |          |               | 0.16    | 0.16    | 0,15 | 87.54 | 87.45 | 81.70  | 0.10  | 6.67         | 967.3  | 0.30     | 33.00                                      | 32.70 | 12         | Fir         |         |
| 60       14&215       56.9       58.14       1.45       59022       3.33       0.24       15.81       16.40       3.64       3.65       3.79       2.00       0.77       1.22       1.44         Fit       16       58.14       58.35       0.12       1740.8       4.28       0.32       176.8       66.79       1.63       1.69       1.69       1.69       1.62       1.63       1.63       1.63       1.63       1.63       1.63       1.69       1.69       1.69       1.63       1.63       1.63       1.63       1.69       1.69       1.69       1.69       1.63       1.63       1.63       1.63       1.63       1.63       1.63       1.63       1.63       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69                                                                                                                                                                                                                                                                                                                                                           |                        |                         |                         |               |                           |      |       |                          |       | 2,50              |                |          |               | 5.33    | 5.32    | 5.16 | 82.35 | 82.12 | 79,65  | 0,28  | 3.28         | 1096.0 | 0.24     | 56.69                                      | 56,45 | 13         | Rf          |         |
| Fir       16       58.14       58.25       0.21       1442.6       3.93       0.25       73.95       75.67       76.97       1.63       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69       1.69                                                                                                                                                                                                                                                                                                                                                     |                        |                         |                         |               |                           |      |       |                          |       | 1,44              | 1.22           | 0.07     | 2,50          | 3.80    | 3.79    | 3.65 | 16,44 | 16,40 | 15.81  | 0.24  | 3.83         | 5902.2 | 1,45     | 58.14                                      | 56,69 | 14&15      | 60          |         |
| Rt       IT       39.35       39.47       0.13       144.8       4.28       0.32       18.08       86.51       86.79       2.49       2.50       2.60       2.63         61.       18.81       59.87       61.21       61.21       61.50       0.29       2331.6       3.94       0.30       14.36       15.36       2.55       2.66       1.47       0.10       1.08       1.43         5ex1       21       67.61       68.19       0.38       1642.2       3.33       0.45       40.02       1.21       41.40       1.88       1.22       1.23       0.54       0.03       0.65       1.71         7       22       73.65       73.57       73.65       73.67       73.68       1.63       0.73       1.63       1.72       1.33         5       24       73.57       73.65       73.91       74.73       0.82       0.56       1.31       1.62       1.24       1.24       1.24       1.24       1.24       1.24       1.24       1.25       1.34       0.35       0.51       1.34         65       24       73.91       73.67       73.60       73.4       3.85       0.58       1.57.5       1.57       2.66<                                                                                                                                                                                                                                                                                                                                                                                       |                        |                         | -                       |               |                           |      |       |                          |       | 2.36              |                |          |               | 1.69    | 1.69    | 1,63 | 76.97 | 76,78 | 73.95  | 0.25  | 3.93         | 1442.6 | 0.21     | 58.35                                      | 58.14 | 16 .       | Fir         |         |
| 61. $18619$ $99.87$ $01.21$ $1.34$ $4908.4$ $4.05$ $0.30$ $16.74$ $15.31$ $15.36$ $2.57$ $2.66$ $1.47$ $0.10$ $1.08$ $1.42$ Fr $20$ $61.21$ $61.00$ $0.29$ $2331.6$ $3.94$ $0.30$ $84.56$ $87.76$ $88.02$ $2.41$ $2.51$ $2.51$ $2.67$ $5ex7$ $21$ $67.61$ $68.19$ $0.29$ $2331.6$ $4.13$ $0.66$ $10.92$ $1.14$ $4.10$ $1.18$ $1.22$ $1.23$ $0.54$ $0.03$ $0.65$ $1.71$ $7$ $22$ $73.05$ $73.29$ $0.24$ $78.10$ $4.13$ $0.68$ $10.93$ $1.77$ $1.83$ $1.84$ $1.26$ $1.39$ $1.39$ $5$ $24$ $73.65$ $73.91$ $0.26$ $85.64$ $3.85$ $0.58$ $21.27$ $22.40$ $1.30$ $1.44$ $5$ $25.252$ $73.91$ $74.73$ $0.82$ $3176.1$ $4.60$ $0.68$ $16.71$ $1.26$ $1.31$ $1.32$ $1.44$ $5$ $25.252$ $73.91$ $74.73$ $0.82$ $3176.1$ $4.60$ $0.68$ $1.671$ $1.68$ $1.26$ $1.31$ $1.32$ $1.44$ $4$ $23.008.11$ $76.00$ $76.00$ $76.42$ $1.26$ $1.31$ $1.32$ $1.44$ $1.48$ $5$ $25.27$ $73.91$ $74.73$ $0.58$ $3176.1$ $4.60$ $0.68$ $1.671$ $1.63$ $1.63$ $1.63$ $1.63$ $1.63$ $1.63$ </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2,63</td> <td></td> <td></td> <td></td> <td>2,60</td> <td>2.59</td> <td>2.49</td> <td>86.79</td> <td>86.51</td> <td>83.08</td> <td>0,32</td> <td>4.28</td> <td>1740,8</td> <td>0.32</td> <td>59.87</td> <td>59.55</td> <td>17</td> <td>Rf</td> <td></td>                                                                                                                                                                               |                        |                         |                         |               |                           |      |       |                          |       | 2,63              |                |          |               | 2,60    | 2.59    | 2.49 | 86.79 | 86.51 | 83.08  | 0,32  | 4.28         | 1740,8 | 0.32     | 59.87                                      | 59.55 | 17         | Rf          |         |
| Fir $20$ $61.21$ $61.20$ $61.24$ $63.94$ $0.25$ $1.394$ $0.30$ $84.36$ $87.76$ $88.02$ $2.41$ $2.51$ $5.51$ $5.67$ $5.67$ $5sc$ $21$ $65.8$ $1642.2$ $3.3$ $0.45$ $40.02$ $41.12$ $1.18$ $1.22$ $1.23$ $0.54$ $0.54$ $0.65$ $1.71$ $7$ $22$ $73.05$ $73.29$ $0.24$ $781.0$ $4.13$ $0.66$ $10.48$ $10.26$ $1.29$ $1.30$ $0.55$ $1.71$ $5$ $24$ $73.65$ $0.36$ $202.9$ $3.12$ $0.55$ $74.03$ $76.00$ $76.42$ $1.26$ $1.29$ $1.30$ $1.32$ $1.49$ $5$ $24$ $73.67$ $74.73$ $0.82$ $3176.1$ $4.35$ $0.58$ $1.54$ $22.77$ $22.40$ $1.49$ $5$ $27$ $74.73$ $0.57$ $0.84$ $3514.8$ $3.88$ $0.58$ $15.76$ $16.84$ $1.26$ $1.31$ $1.32$ $1.49$ $5$ $27$ $74.73$ $75.57$ $0.84$ $3514.8$ $3.88$ $0.58$ $15.46$ $1.930$ $19.41$ $0.61$ $0.63$ $0.63$ $0.63$ $1.49$ $417$ $29.308.31$ $76.10$ $77.97$ $1.89$ $71.82$ $80.6$ $0.58$ $0.16$ $6.63$ $0.64$ $1.32$ $1.22$ $1.26$ $1.31$ $417$ $29.308.31$ $75.77$ $78.77$ $70.78$ $3008.4$ $4.46$ $0.75$ $75.27$ $79.25$ $79.85$ <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |                         |                         |               |                           |      |       |                          |       | 1.43              | 1.08           | 0.10 1   | 1,47          | 2.66    | 2,65    | 2.55 | 15.36 | 15.31 | 14.74  | 0.35  | 4,05         | 4968.4 | 1.34     | 61.21                                      | 59.87 | 188019     | 6L.         |         |
| 5 Sext       21       6.8 1       6.8 1       6.8 1       0.58       1042       3.33       0.45       40.02       41.24       1.40       1.18       1.22       1.23       0.54       0.03       0.65       1.71         ?       22       73.05       73.29       73.65       0.36       2022.9       3.12       0.55       74.03       76.00       76.42       1.26       1.29       1.30       2.34         5       24       73.65       73.91       0.26       855.4       3.85       0.58       21.54       22.27       22.40       1.49         5       25&225       73.91       74.73       0.82       3175.1       4.60       0.68       16.07       16.73       16.84       1.26       1.31       1.32       1.44         5       27       74.73       75.7       0.84       3148       3.88       0.58       18.66       19.30       1.94       0.62       0.65       0.10       0.03       0.52       1.44         6       29.30&31       76.0       75.7       0.84       3149       3.0       4.33       4.33       4.33       4.43       4.44       1.46       1.45         11//////////////////////////                                                                                                                                                                                                                                                                                                                                                                                     |                        |                         |                         |               |                           |      |       |                          |       | 2.67              |                |          |               | 2.51    | 2.50    | 2.41 | 88.02 | 87,76 | 84,56  | 0,30  | 3.94         | 2331.6 | 0,29     | 61,50                                      | 61,21 | 20         | Fir         |         |
| i $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$ $i$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                        |                         |                         |               |                           |      |       |                          |       | 1.71              | 0.65           | 0.03 (   | 0.54          | 1.23    | 1.22    | 1.18 | 41,40 | 41.21 | 40.02  | 0.45  | 3.33         | 1042.2 | 0.58     | 68,19                                      | 07.01 | 21         | Jex?        |         |
| Rt2373.2973.650.362022.93.120.5574.0376.0076.421.261.291.302.3452473.6573.610.26865.43.850.5821.5422.2722.401.49525.82673.9174.730.823176.14.600.6816.0716.7316.841.261.311.321.4452774.7375.570.843514.83.880.5818.6619.3019.410.610.630.631.46Flr/Rf2875.5776.100.531407.53.090.5978.2880.3080.784.194.304.332.45429.30&3176.1077.991.897119.34.820.6615.3916.0616.170.620.650.100.030.521.43Flr/Rf32&23377.9977.970.783008.44.460.7576.2979.2579.851.962.042.062.423U3478.770.783008.44.660.7576.2979.2579.851.962.042.062.423U3478.7779.740.973264.45.650.6581.0685.2885.840.930.942.553L36&3780.3081.321.024381.85.220.6418.8819.7919.922.562.662.672                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                         |                         |               |                           |      |       |                          |       | 1.39              |                |          |               | 1.84    | 1,83    | 1,77 | 10.93 | 10.86 | 10.48  | 0.08  | 4,13         | 761.0  | 0,24     | 13.29                                      | 75,05 | 22         |             |         |
| 5 $24$ $73.05$ $73.91$ $0.26$ $85.4$ $3.85$ $0.58$ $21.54$ $22.27$ $22.40$ $1.44$ 5 $25\&26$ $73.91$ $74.73$ $0.82$ $3176.1$ $4.60$ $0.68$ $16.07$ $16.73$ $16.84$ $1.26$ $1.31$ $1.32$ $1.44$ 5 $27$ $74.73$ $75.57$ $0.84$ $3514.8$ $0.58$ $18.66$ $19.30$ $19.41$ $0.61$ $0.63$ $0.63$ $1.46$ Flir/Rt $28$ $75.77$ $76.10$ $0.53$ $1407.5$ $3.09$ $0.59$ $78.28$ $80.30$ $80.78$ $4.19$ $4.30$ $4.33$ $2.45$ 4 $29.30\&31$ $76.10$ $77.99$ $1.89$ $7119.3$ $4.82$ $0.66$ $15.19$ $16.06$ $16.17$ $0.65$ $0.65$ $0.10$ $0.03$ $0.52$ $1.43$ Flir/Rt $32\&233$ $77.99$ $78.77$ $0.78$ $3008.4$ $4.46$ $0.75$ $76.29$ $79.25$ $79.85$ $1.96$ $0.49$ $0.66$ $0.10$ $0.03$ $0.52$ $1.43$ JU $34$ $78.77$ $79.74$ $0.97$ $3264.4$ $5.86$ $0.65$ $12.87$ $13.58$ $1.96$ $0.91$ $0.92$ $0.03$ $0.04$ $0.84$ $1.41$ $3 Pring$ $35$ $79.74$ $80.30$ $0.56$ $2072.6$ $5.56$ $0.65$ $81.66$ $9.93$ $0.94$ $.59$ $2.59$ $3 L$ $36\&307$ $81.32$ $1.60$ $0.28$ $1175.5$ $6.47$ $0.65$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | •                      |                         |                         |               |                           |      |       |                          |       | 2.34              |                |          |               | 1.30    | 1.29    | 1.26 | 76.42 | 76,00 | 74,03  | 0,55  | 3.12         | 2022.9 | 0,36     | 73,65                                      | 73,29 | 23         | KI -        |         |
| 5 $25226$ $73.71$ $74.75$ $0.62$ $5176.1$ $4,60$ $0.68$ $16.07$ $16.73$ $16.84$ $1.26$ $1.31$ $1.32$ 1.44527 $74.73$ $75.57$ $0.84$ $3514.8$ $3.88$ $0.58$ $18.66$ $19.30$ $19.41$ $0.61$ $0.63$ $0.63$ $1.46$ Flr/Rt28 $75.57$ $76.10$ $0.53$ $1407.5$ $3.09$ $0.59$ $78.28$ $80.30$ $80.78$ $4.19$ $4.30$ $4.33$ $2.45$ 4 $29,30&231$ $76.10$ $77.99$ $1.89$ $7119.3$ $4.82$ $0.66$ $16.17$ $0.62$ $0.65$ $0.10$ $0.03$ $0.52$ $1.43$ Flr/Rt $32&233$ $77.99$ $78.77$ $0.78$ $3008.4$ $4.46$ $0.75$ $76.29$ $79.25$ $79.85$ $1.96$ $2.04$ $2.06$ $2.42$ $3U$ $34$ $78.77$ $79.74$ $0.97$ $3264.4$ $5.86$ $0.65$ $12.87$ $13.67$ $0.86$ $0.91$ $0.92$ $0.03$ $0.04$ $0.84$ $1.41$ $3 Pring$ $35$ $79.74$ $80.30$ $0.56$ $2072.6$ $5.56$ $0.65$ $81.68$ $0.93$ $0.94$ $2.59$ $3L$ $36&37$ $80.30$ $81.32$ $1175.5$ $6.47$ $0.65$ $82.64$ $87.79$ $88.36$ $0.67$ $0.67$ $1.74$ $0.09$ $0.85$ $1.47$ $4.64$ $3.68$ $0.28$ $1175.5$ $6.47$ $0.65$ $82.64$ $87.79$ $82$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | •                      |                         |                         |               |                           |      |       |                          |       | 1.49              |                |          |               |         |         |      | 22,40 | 22.27 | 21.54  | 0.58  | 3.85         | 805.4  | 0.26     | 73.91                                      | 73.05 | 24         | 2           |         |
| 3 $27$ $74.73$ $73.37$ $0.64$ $514.6$ $5.86$ $0.58$ $18.66$ $19.30$ $19.41$ $0.61$ $0.63$ $0.63$ $1.46$ Flr/Rf $28$ $75.57$ $76.10$ $0.53$ $1407.5$ $3.09$ $0.59$ $78.28$ $80.30$ $80.78$ $4.19$ $4.30$ $4.33$ $2.45$ 4 $29,30&311$ $76.10$ $77.99$ $1.89$ $7119.3$ $4.82$ $0.66$ $15.39$ $16.06$ $16.17$ $0.62$ $0.65$ $0.10$ $0.03$ $0.52$ $1.43$ Flr/Rf $32&333$ $77.99$ $78.77$ $0.78$ $3008.4$ $4.46$ $0.75$ $76.29$ $79.25$ $79.85$ $1.96$ $2.04$ $2.06$ $2.42$ $3U$ $34$ $78.77$ $79.74$ $0.97$ $3264.4$ $5.86$ $0.65$ $12.87$ $13.58$ $13.67$ $0.86$ $0.91$ $0.92$ $0.03$ $0.04$ $0.84$ $1.41$ $3 Pring$ $35$ $79.74$ $80.30$ $0.56$ $2072.6$ $5.56$ $0.65$ $81.06$ $85.28$ $85.84$ $0.88$ $0.93$ $0.94$ $2.59$ $3L$ $36&37$ $80.30$ $81.32$ $1.02$ $4381.8$ $5.22$ $0.64$ $88.8$ $19.79$ $19.92$ $2.56$ $2.68$ $2.70$ $1.74$ $0.09$ $0.85$ $1.47$ $3L$ $36&307$ $81.32$ $81.60$ $0.28$ $1175.5$ $6.47$ $0.65$ $82.64$ $87.79$ $83.36$ $0.67$ $0.67$ $2.76$ $2.67$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |                         |                         |               |                           |      |       |                          |       | 1.44              |                |          |               | 1.32    | 1.31    | 1,20 | 10.84 | 10,73 | 10.07  | 0.03  | 4,00         | 31/0.1 | 0,02     | 74,75                                      | 73,91 | 2366.20    | 5           |         |
| Fund       28       13.97       70.10       0.53       147.3       5.09       0.59       78.28       80.30       80.78       4.19       4.30       4.33       2.45         4       29,30&231       76.10       77.99       1.89       7119.3       4.82       0.66       15.39       16.06       16.17       0.62       0.65       0.10       0.03       0.52       1.43         Flr/Rf       32&233       77.99       78.77       0.78       3008.4       4.46       0.75       76.29       79.25       79.85       1.96       2.04       2.06       2.42         3U       34       78.77       79.74       0.97       3264.4       5.86       0.65       12.87       13.58       13.67       0.86       0.91       0.92       0.03       0.04       0.84       1.41         3 Pring       35       79.74       80.30       0.56       2072.6       5.56       0.65       81.06       85.88       0.93       0.94       2.59         3L       36&237       80.30       81.32       10.2       438       19.79       19.92       2.56       2.68       2.70       1.74       0.09       0.85       1.47         3L </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.46</td> <td></td> <td></td> <td></td> <td>0.03</td> <td>0.63</td> <td>0.61</td> <td>19.41</td> <td>19.30</td> <td>18.00</td> <td>0,28</td> <td>2,00</td> <td>1407 5</td> <td>0.64</td> <td>75.57</td> <td>14.13</td> <td>20</td> <td></td> <td></td>                             |                        |                         |                         |               |                           |      |       |                          |       | 1.46              |                |          |               | 0.03    | 0.63    | 0.61 | 19.41 | 19.30 | 18.00  | 0,28  | 2,00         | 1407 5 | 0.64     | 75.57                                      | 14.13 | 20         |             |         |
| Function       10.10       17.55       1.05       12.55       10.00       10.17       0.02       0.05       0.10       0.03       0.52       1.43         Flr/Rf       32&233       77.99       78.77       0.78       3008.4       4.46       0.75       76.29       79.25       79.85       1.96       2.04       2.06       2.42         3U       34       78.77       79.74       0.97       3264.4       5.86       0.65       12.87       13.58       13.67       0.86       0.91       0.92       0.03       0.04       0.84       1.41         3 Pring       35       79.74       80.30       0.56       2072.6       5.56       0.65       81.06       85.28       85.84       0.88       0.93       0.94       2.59         3L       36&37       80.30       81.32       1.02       4381.8       5.22       0.64       18.88       19.79       19.92       2.56       2.68       2.70       1.74       0.09       0.85       1.47         SI       36&37       80.30       81.32       1.02       4381.8       5.22       0.64       18.88       19.79       19.92       2.56       2.68       2.70       1.74       <                                                                                                                                                                                                                                                                                                                                                                         |                        |                         |                         |               |                           |      |       |                          |       | 2,45              | 0.70           | a.o.a. ( | 0.10          | 4.35    | 4.30    | 4.19 | 16 17 | 16.06 | 15 20  | 0.55  | 3.05         | 7110 2 | 1 90     | 77.00                                      | 76.10 | 20 20 8-21 | 1           |         |
| 3U       34       78.77       79.74       0.97       3264.4       5.86       0.65       12.87       13.58       13.67       0.86       0.91       0.92       0.03       0.04       0.84       1.41         3 Pring       35       79.74       80.30       0.56       2072.6       5.56       0.65       81.06       85.28       85.84       0.88       0.93       0.94       2.59         3L       36&37       80.30       81.32       1.02       4381.8       5.22       0.64       18.88       19.79       19.92       2.56       2.68       2.70       1.74       0.09       0.85       1.47         Flir       38       81.32       1.60       0.28       1175.5       6.47       0.65       82.64       87.79       88.36       0.63       0.67       0.67       2.67         Rf       .39       87.90       88.18       0.28       175.5       6.47       0.65       82.64       87.79       88.36       0.63       0.67       0.67       2.67         Rf       .39       87.90       88.18       0.28       175.5       6.47       0.58       37.42       37.64       2.75       2.83       2.84       1.66                                                                                                                                                                                                                                                                                                                                                                                       |                        |                         |                         |               |                           |      |       |                          |       | 1.43              | 0.52           | 0.05 (   | 0.10          | 2.05    | 2.04    | 1.06 | 70.85 | 70.25 | 76.20  | 0.00  | 4.02         | 3008.4 | 0.78     | 78 77                                      | 77 99 | 37.8-33    | r<br>Fir/Rf |         |
| 3 Pring       35       79.74       80.30       0.56       2072.6       5.56       0.65       81.06       85.28       85.84       0.88       0.93       0.94       2.59         3L       36&237       80.30       81.32       1.02       4381.8       5.22       0.64       18.88       19.79       19.92       2.56       2.68       2.70       1.74       0.09       0.85       1.47         Flr       38       81.32       81.60       0.28       1175.5       6.47       0.65       82.64       87.79       88.36       0.63       0.67       2.67         Rf       39       87.90       88.18       0.28       36.50       37.42       37.64       2.75       2.82       2.84       1.47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                         |                         |               |                           | •    |       |                          |       | 2.42              | 0.94           | 0.04     | 0.02 .        | 2.00    | 2.04    | 0.86 | 13.67 | 13.58 | 17.87  | 0.65  | 5.86         | 3264.4 | 0.07     | 79 74                                      | 78 77 | 34         | 311         |         |
| 3L       36&37       80.30       81.32       1.02       4381.8       5.22       0.64       18.88       19.79       19.92       2.56       2.68       2.70       1.74       0.09       0.85       1.47         Flr       38       81.32       81.60       0.28       1175.5       6.47       0.65       82.64       87.79       88.36       0.63       0.67       2.67         Rf       39       87.90       88.18       0.28       2.35       37.64       2.75       2.82       2.84       1.67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                         |                         |               |                           |      |       |                          |       | 7.41              | 0.04           | 0.04 (   | 0.05          | 0.92    | 0.21    | 0,00 | 85.84 | 85 28 | 81.06  | 0.65  | 5 56         | 2072.6 | 0.56     | 80.30                                      | 79.74 | 35         | 3 Prine     |         |
| Fir     38     81.32     81.60     0.28     1175.5     6.47     0.65     82.64     87.79     88.36     0.67     0.67     2.67       Rf     39     87.90     88.18     0.28       2     40     88.18     88.75     0.57     2917.8     3.03     0.58     36.50     37.42     37.64     2.75     2.82     2.84     1.64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |                         |                         |               |                           |      |       |                          |       | 2,35              | 0.85           | 0.09     | 1 74          | 2 70    | 2.68    | 2.56 | 19.92 | 19.79 | 18.88  | 0.64  | 5.22         | 4381.8 | 1.02     | 81.32                                      | 80.30 | 36&37      | 3L          |         |
| Rf · 39 87,90 88,18 0.28<br>2 40 88 18 88,75 0.57 2917.8 3.03 0.58 36.50 37.42 37.54 2.75 2.82 2.84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                         |                         |               |                           |      |       |                          |       | 1,47              | 0,05           | · · · ·  | <b>1</b> ,7 T | 0.67    | 0.67    | 0.63 | 88.36 | 87.79 | 82.64  | 0.65  | 6.47         | 1175.5 | 0.28     | 81.60                                      | 81.32 | 38 '       | Fir         |         |
| 2 40 88 18 88 75 0.57 2917.8 3.03 0.58 36.50 37.42 37.54 2.75 2.92 2.94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                        |                         |                         |               |                           |      |       |                          |       | 2,07              |                |          |               | 0.07    | 0.07    | 0.00 | 00.00 |       |        |       |              |        | 0.28     | 88.18                                      | 87,90 | . 39       | Rf          |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                         |                         |               |                           |      |       |                          |       | 1.66              |                |          |               | 2.84    | 2.82    | 2.75 | 37.64 | 37.42 | `36,50 | 0.58  | 3.03         | 2917.8 | 0,57     | 88,75                                      | 88.18 | 40         | 2           |         |
| 2 41 88,75 89,26 0.51 2176.6 5.33 0.75 35.14 36,84 37.12 1.34 1.40 1.41 1.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                        |                         |                         |               |                           |      |       |                          |       | 1,66              |                |          |               | 1.41    | 1.40    | 1.34 | 37.12 | 36,84 | 35.14  | 0.75  | 5.33         | 2176,6 | 0,51     | 89,26                                      | 88,75 | 41         | 2           |         |
| 2 42&43 89,26 90,41 1.15 4338,5 5.73 0.67 17.44 18.38 18.50 0.47 0.49 0.49 1.45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                         |                         |               |                           |      |       |                          |       | 1.45              |                |          |               | 0.49    | 0.49    | 0,47 | 18.50 | 18.38 | 17.44  | 0.67  | 5.73         | 4338,5 | 1.15     | 90,41                                      | 89,26 | 42&43      | 2           |         |
| 2 44&45 90.41 91.82 1.41 5283,1 5.90 0.61 10.50 11.09 11.16 0.39 0.41 0.41 1.39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                         |                         |               |                           |      |       |                          |       | 1.39              |                |          |               | 0.41    | 0.41    | 0.39 | 11,16 | 11.09 | 10,50  | 0.61  | 5.90         | 5283,1 | 1.41     | 91.82                                      | 90.41 | 44&45      | 2           | •       |
| Flr 46 91.82 92.15 0.33 1262.8 4.84 0.55 82.88 86.62 87.10 0.15 0.16 0.16 2.63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                         |                         |               |                           |      |       |                          |       | 2.63              |                |          |               | 0,16    | 0,16    | 0,15 | 87.10 | 86.62 | 82.88  | 0.55  | 4,84         | 1262,8 | 0,33     | 92,15                                      | 91.82 | 46         | Fir         |         |

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|         |       |        | DRILLED | INTERVAL | SAMPLE | REJECT | MOIST | TURE |         | ASH   |       | TO    | TAL SUL | FUR  | SUI     | LFUR FO        | RMS     | SPECI    | FIC      | Cal   | o'd %ages by<br>rock volum | y<br>c | Cale'd %aı<br>rock de | es by<br>esity | Calc'd raw<br>composite | Calc'd raw<br>composite | Calc'd S.G.<br>on seam |
|---------|-------|--------|---------|----------|--------|--------|-------|------|---------|-------|-------|-------|---------|------|---------|----------------|---------|----------|----------|-------|----------------------------|--------|-----------------------|----------------|-------------------------|-------------------------|------------------------|
| HOLE    | SEAM  | SAMPLE | From    | To<br>>  | THKNES | WEIGHT | %     |      |         | — % — |       |       | -%-     |      | •       | %              |         | GRAV     | ITY      | Enter | sum                        | prop   | sum                   | ргор           | ash (DB)                | sulfur (DB)             | composite              |
| ħ       |       | Ħ      | ()      |          | (m)    | (gms)  | A.K.  | A.D. | A.K.    | A.D.  | D.B.  | А,К,  | A.D.    | D.B. | Pyritic | A.D<br>Sulfate | Organie | (Meas'd) | (Cale'd) | here  | 0.00                       | 0.00   | 0,00                  | 0.00           |                         |                         | 0,00                   |
| T93D-45 |       | 1      | 44.08   | 44.57    | 0.49   | 1867.1 | 4,45  | 0,59 | 40,02   | 41.64 | 41.89 | 1.39  | 1,45    | 1,46 |         | Canato         | o Benno |          | 1.72     |       |                            |        |                       |                |                         |                         |                        |
|         | Pring | 2      | 44.57   | 44.76    | 0.19   | 1142.9 | 8.66  | 0.63 | 71.84   | 78,15 | 78.65 | 0.37  | 0.40    | 0,40 |         |                |         |          | 2.39     |       |                            |        |                       |                |                         |                         |                        |
|         |       | 3      | 44,76   | 45,14    | 0,38   | 1173.2 | 5.10  | 0.62 | 29.39   | 30,78 | 30.97 | 1.96  | 2.05    | 2.06 |         |                |         |          | 1.58     |       |                            |        |                       |                |                         |                         |                        |
|         |       | 4      | 45,14   | 46,13    | 0,99   | 3518,3 | 6.15  | 0.54 | 10.31   | 10.93 | 10,99 | 1.69  | 1.79    | 1.80 |         | •              |         |          | 1.39     |       |                            |        |                       |                |                         |                         |                        |
|         | Fir   | 5      | 46.13   | 46.37    | 0.24   | 1172,4 | 8,76  | 0.63 | 71.20   | 77.54 | 78,03 | 0.40  | 0.44    | 0.44 |         |                |         |          | 2.37     |       |                            |        |                       |                |                         |                         |                        |
|         | Rf    | 6      | 57,80   | 58,17    | 0.37   | 1373.5 | 6,18  | 0.35 | 83.82   | 89.03 | 89.34 | 2,86  | 3.04    | 3.05 |         |                |         |          | 2.71     |       |                            |        |                       |                |                         |                         |                        |
|         |       | 7      | 58,17   | 58.39    | 0.22   | 1285,1 | 3,41  | 0,50 | 38.84   | 40.01 | 40,21 | ,6,91 | 7,12    | 7.16 |         |                |         |          | 1.70     |       |                            |        |                       |                |                         |                         |                        |
|         |       | 8      | 58.39   | 58.78    | 0.39   | 1316,8 | 10.70 | 0,53 | 30.89   | 34.41 | 34.59 | 3,17  | 3.53    | 3.55 |         |                | •       |          | 1,63     |       |                            |        |                       |                |                         |                         |                        |
|         |       | 9&10   | 58.78   | 60.00    | 1.22   | 4349.0 | 9.01  | 0.52 | 30,92   | 33.81 | 33.99 | 1.73  | 1.89    | 1.90 |         |                |         |          | 1.62     |       |                            |        |                       |                |                         |                         |                        |
|         | Flr   | 11     | 60,00   | 60,30    | 0.30   | 1457.3 | 5.19  | 0.62 | 80,36   | 84.23 | 84.76 | 0.57  | 0.60    | 0,60 |         |                |         |          | 2.56     |       |                            |        |                       |                |                         |                         |                        |
|         |       | 12     | 128,75  | 129.23   | 0,48   | 2399.4 | 4.55  | 0.66 | 48.17   | 50,13 | 50,46 | 2.29  | 2.38    | 2.40 |         |                |         | 1.88     | 1.88     |       |                            |        |                       |                |                         |                         |                        |
|         |       |        |         |          |        |        |       |      |         |       |       |       |         |      |         |                |         |          |          |       |                            |        |                       |                |                         |                         |                        |
| 193D-47 |       | 1      | 166.81  | 167.17   | 0.36   | 1298,3 | 1.57  | 0,64 | 30.88   | 31.17 | 31.37 | 3,82  | 3.86    | 3,88 |         |                |         |          | 1,59     |       |                            |        |                       |                |                         |                         |                        |
|         |       | 28:3   | 168.03  | 168.95   | 0.92   | 3817.9 | 2.55  | 0,74 | 25,79   | 26,27 | 26.47 | 3.08  | 3,14    | 3.16 | 1.67    | 0.01           | 1.47    | 1.57     | 1.57     |       |                            |        |                       |                |                         |                         |                        |
| 793D-50 | N/C   |        |         |          |        |        | •     |      |         |       |       |       |         |      |         |                |         |          |          |       |                            |        |                       |                |                         |                         |                        |
| 1922-90 | 110   |        |         |          |        |        |       |      |         |       |       |       |         |      | •       |                |         |          |          |       |                            |        |                       |                |                         |                         |                        |
| T93D-53 | ?     | 1      | 40.96   | 41.29    | 0.33   | 1122.9 | 1.90  | 0,38 | 21,87   | 22.21 | 22.29 | 1.92  | 1.95    | 1,96 |         |                |         |          | 1.49     |       |                            |        |                       |                |                         |                         |                        |
|         | c     | 2      | 46,48   | 46.91    | 0,43   | 1427.2 | 2.63  | 0.37 | 16,25   | 16.63 | 16,69 | 1.51  | 1.54    | 1.55 |         |                |         |          | 1.44     |       |                            |        |                       |                |                         |                         |                        |
|         | °.    | 3      | 46.91   | 47.43    | 0.52   | 2370.0 | 2,23  | 0.56 | 27.39   | 27,86 | 28.02 | 2,61  | 2,65    | 2.66 |         |                |         |          | 1.55     |       |                            |        | •                     |                |                         |                         |                        |
|         | ¢     | 4      | 47,43   | 48.18    | 0,75   | 2600,5 | 2.94  | 0.42 | 6.17    | 6.33  | 6,36  | 1.45  | 1.49    | 1,50 |         |                |         |          | 1.35     |       |                            |        |                       |                |                         |                         |                        |
|         | 1U    | 5      | 56.19   | 56.60    | 0.41   | 1235.5 | 2.67  | 0,26 | 27.95   | 28.64 | 28.71 | 1.03  | 1.06    | 1.06 |         |                |         |          | 1.56     |       |                            |        |                       | ×              |                         |                         |                        |
|         | 1U    | 6&7    | 56.60   | 58.65    | 2.05   | 7606.9 | 3.76  | 0.44 | 8,32    | 8.61  | 8.65  | 0.72  | 0.74    | 0,74 |         |                |         |          | 1.37     |       |                            |        |                       |                |                         |                         |                        |
|         | 1     | 8      | 58.65   | 59.68    | 1,03   | 3910.5 | 5.48  | 0.40 | . 17.73 | 18,68 | 18,76 | 0.44  | 0.46    | 0.46 |         |                |         |          | 1.46     |       |                            |        |                       |                |                         |                         |                        |
|         | Prig  | 9      | 59.68   | 59.87    | 0.19   | 946.5  | 2.66  | 0.42 | 55.66   | 56,94 | 57,18 | 2,39  | 2.44    | 2.45 |         |                |         |          | 1.95     |       |                            |        |                       |                |                         |                         |                        |
|         | 1     | 10     | 59,87   | 61,60    | 1.73   | 4364.2 | 8.02  | 0.46 | 20.89   | 22.61 | 22,71 | 0.51  | 0,55    | 0,55 |         |                |         | 1.49     | 1.49     |       |                            |        |                       |                |                         |                         |                        |
|         | 1     | 11     | 61.60   | 62.96    | 1.36   | 7170,4 | 4.18  | 0,42 | 13.80   | 14.34 | 14,40 | 0.51  | 0.53    | 0,53 |         |                |         |          | 1,42     |       |                            |        |                       |                |                         |                         |                        |
|         | ?     | 12     | 67.35   | 67.72    | 0.37   | 1150.7 | 1.82  | 0,25 | 28,59   | 29.05 | 29.12 | 3.69  | 3,75    | 3.76 |         |                |         |          | 1.56     |       |                            |        |                       |                |                         |                         |                        |
|         | ?     | 13     | 71.23   | 71.57    | , 0.34 | 1616.9 | 1.57  | 0.37 | 41.74   | 42.25 | 42.41 | 2.92  | 2,96    | 2.97 |         |                |         |          | 1.72     |       |                            |        |                       |                |                         |                         |                        |
|         | ?     | 14     | 74.40   | 75.15    | 0.75   | 2808.3 | 1.95  | 0.36 | 37,78   | 38,39 | 38.53 | 3.92  | 3.98    | 3.99 |         |                |         |          | 1,67     |       |                            |        |                       |                |                         |                         |                        |
|         | 7     | 15     | 76,80   | 77,44    | 0,64   | 2283.2 | 2.22  | 0.51 | 19.33   | 19,67 | 19.77 | 0.66  | 0.67    | 0.67 | 0,49    | 0.01           | 0.17    |          | 1.47     |       |                            |        |                       |                |                         |                         |                        |
|         | γ.    | 16     | 84.96   | 85,34    | 0,38   | 1337.4 | 2.35  | 0.34 | 12.96   | 13,23 | 13.28 |       |         |      |         |                |         |          | 1.41     |       |                            |        |                       |                |                         |                         |                        |

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     7       39.97         5ex       8       44.42.         5ex       9&10       44.65         5ex       13&14       45.97         5ex       13&14       45.97         5ex       15&16       47.64         5ex       17       48.77         ipper       18       72.01         ipper       19&20       72.20         rting       21       73.06         ower       23       74.29         utonite       24       74.35         ower       23       74.29         utonite       24       74.35         ower       27       79.14         ipper       27       79.84         rting       29       80.16         ower       32       32.8         ower       32       33 <td>7       2       <math>30.70</math> <math>31.26</math>         1pper       3       <math>36.76</math> <math>36.92</math>         1pper       3       <math>36.76</math> <math>36.92</math>         1pper       4       <math>36.92</math> <math>37.44</math>         1pper       5       <math>37.44</math> <math>37.72</math>         0wer       6       <math>39.56</math> <math>39.97</math>         0wer       7       <math>39.97</math> <math>40.32</math>         5ex       8       <math>44.42</math>.       <math>44.65</math>         5ex       9&amp;10       <math>44.65</math> <math>45.22</math>         5ex       13&amp;14       <math>45.97</math> <math>47.64</math>         5ex       15&amp;16       <math>47.64</math> <math>48.77</math>         5ex       17       <math>48.77</math> <math>48.97</math>         1pper       18       <math>72.01</math> <math>72.20</math>         1pper       19&amp;20       <math>72.20</math> <math>73.06</math>         rting       21       <math>73.06</math> <math>73.34</math>         ower       23       <math>74.29</math> <math>74.35</math>         utonite       24       <math>74.35</math> <math>74.71</math> <math>qpper       26       <math>78.99</math> <math>79.14</math> <math>79.84</math> <math>qpper       28       <math>79.84</math> <math>80.16</math> <math>60.52</math>         o</math></math></td> <td>7       2       <math>30.70</math> <math>31.26</math> <math>0.56</math>         1pper       3       <math>36.76</math> <math>36.92</math> <math>0.16</math>         1pper       3       <math>36.76</math> <math>36.92</math> <math>0.16</math>         1pper       4       <math>36.92</math> <math>37.44</math> <math>0.52</math>         1pper       5       <math>37.44</math> <math>37.72</math> <math>0.28</math>         ower       6       <math>39.56</math> <math>39.97</math> <math>0.41</math>         ower       7       <math>39.97</math> <math>40.32</math> <math>0.35</math>         5ex       8       <math>44.42</math> <math>44.65</math> <math>0.23</math>         5ex       9&amp;10       <math>44.65</math> <math>45.22</math> <math>0.57</math>         5ex       13&amp;14       <math>45.97</math> <math>47.64</math> <math>1.67</math>         5ex       13&amp;14       <math>45.97</math> <math>47.64</math> <math>1.67</math>         5ex       17       <math>48.77</math> <math>48.97</math> <math>0.20</math>         ppper       <math>18</math> <math>72.01</math> <math>72.20</math> <math>0.19</math>         ppper       <math>18</math> <math>72.01</math> <math>72.20</math> <math>0.19</math>         pper       <math>19&amp;20</math> <math>72.20</math> <math>73.06</math> <math>0.86</math>         rting       <math>21</math> <math>73.34</math> <math>74.29</math> <math>0.95</math>         ower</td> <td>7       2       <math>30.70</math> <math>31.26</math> <math>0.66</math> <math>80.3</math>         ppper       3       <math>36.76</math> <math>36.92</math> <math>0.16</math> <math>168.0</math>         ppper       3       <math>36.76</math> <math>36.92</math> <math>0.16</math> <math>168.0</math>         ppper       5       <math>37.44</math> <math>0.52</math> <math>900.3</math>         ppper       5       <math>37.44</math> <math>0.52</math> <math>900.3</math>         ower       6       <math>39.56</math> <math>39.97</math> <math>0.41</math> <math>729.1</math>         ower       7       <math>39.97</math> <math>40.32</math> <math>0.35</math> <math>620.2</math>         sex       8       <math>44.42.</math> <math>44.65</math> <math>0.23</math> <math>327.8</math>         sex       <math>9\&amp;10</math> <math>44.65</math> <math>45.22</math> <math>0.57</math> <math>1121.6</math>         Sex       <math>18\&amp;12</math> <math>45.97</math> <math>47.64</math> <math>1.67</math> <math>3086.4</math>         Sex       <math>15\&amp;16</math> <math>47.64</math> <math>48.77</math> <math>1.13</math> <math>1872.5</math>         Sex       <math>17</math> <math>48.77</math> <math>48.97</math> <math>0.20</math> <math>248.1</math>         ppper       <math>18</math> <math>72.01</math> <math>72.20</math> <math>73.06</math> <math>0.86</math> <math>1339.2</math>         rting       <math>21</math> <math>73.06</math> <math>73.34</math> <math>0.28</math></td> <td>7230.7031.260.5680.37.39pipper336.7636.920.16168.07.40pipper436.9237.440.52900.38.68pipper537.4437.720.28200.58.90ower639.5639.970.41729.16.01ower739.9740.320.35620.26.205ex844.4244.650.23327.86.735ex9&amp;1044.6545.220.571121.68.155ex11&amp;1245.2245.970.751733.610.505ex13&amp;1445.9747.641.673086.49.475ex15&amp;1647.6448.771.131872.510.335ex1748.7748.970.20248.16.97pipper1872.0172.200.19197.810.50pipper1872.0172.200.19197.810.50ower2273.3474.290.951568.510.28ower2374.2974.350.06203.318.35utning2173.0673.340.28715.94.05ower2374.2974.350.06203.318.35utning2173.0673.340.28567.73.31pipper2678.9979.140.1586.05.13&lt;</td> <td>7       2       30.70       31.26       0.56       880.3       7.39       0.60         upper       3       36.76       36.92       0.16       168.0       7.40       0.68         upper       4       36.92       37.44       0.52       900.3       8.68       0.56         upper       5       37.44       37.72       0.28       200.5       8.90       0.60         ower       6       39.56       39.97       0.41       729.1       6.01       0.56         ower       7       39.97       40.32       0.35       620.2       6.20       0.52         5ex       8       44.42       44.65       0.23       327.8       6.73       0.54         5ex       13&amp;414       45.97       47.64       1.67       3086.4       9.47       0.57         5ex       13&amp;414       45.97       47.64       1.67       3086.4       9.47       0.57         5ex       17       48.77       1.13       1872.5       10.33       0.71         5ex       17       48.77       4.163       0.86       1339.2       13.54       0.66         upper       19&amp;20       72.20</td> <td>7230.6250.6250.6361.6361.637.1661.7451.74ppper336.7636.920.16168.07.400.6816.29ppper436.9237.440.52900.38.680.5615.86ppper537.4437.720.28200.58.900.6013.38ower639.5639.970.41729.16.010.5619.16ower739.9740.320.35620.26.200.5214.11Sex844.4244.650.23327.86.730.5414.86Sex13&amp;1445.9747.641.673086.49.470.577.34Sex13&amp;1445.9747.641.673086.49.470.577.34Sex13&amp;21445.9747.641.673086.49.470.577.34Sex1748.7748.970.20248.16.970.6813.15pper1872.0172.200.19197.810.500.5616.22pper19&amp;2072.2073.060.86133.213.540.669.85ring2173.0673.340.28715.94.050.8256.73ower2374.2974.350.06203.318.350.6913.51upper2678.9979.140.5186.05.13<t< td=""><td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>r       1       50.02       50.03       61.03       61.03       61.04       61.04       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05<!--</td--><td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>1       2       30.00       30.00       50.00       50.00       50.00       50.00       50.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00<!--</td--><td>1       2       3       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0</td><td>1       2000       2000       2000       2000       2000       2000       2000       2000       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.00       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.21       1.51       1.60       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       1.51       <t< td=""><td>y       x       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z        p       z       <t< td=""><td>n         1         2         2         2         1         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>n         1         2         2         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>n       1       2.0.0       2.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0<!--</td--><td>1       2       2       2       2       1       2       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       <thj< th=""> <thj< th=""></thj<></thj<></td><td>1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j</td><td>n         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td></td></t<></td></t<></td></td></td></t<></td> | 7       2 $30.70$ $31.26$ 1pper       3 $36.76$ $36.92$ 1pper       3 $36.76$ $36.92$ 1pper       4 $36.92$ $37.44$ 1pper       5 $37.44$ $37.72$ 0wer       6 $39.56$ $39.97$ 0wer       7 $39.97$ $40.32$ 5ex       8 $44.42$ . $44.65$ 5ex       9&10 $44.65$ $45.22$ 5ex       13&14 $45.97$ $47.64$ 5ex       15&16 $47.64$ $48.77$ 5ex       17 $48.77$ $48.97$ 1pper       18 $72.01$ $72.20$ 1pper       19&20 $72.20$ $73.06$ rting       21 $73.06$ $73.34$ ower       23 $74.29$ $74.35$ utonite       24 $74.35$ $74.71$ $qpper       26       78.99 79.14 79.84 qpper       28       79.84 80.16 60.52         o$ | 7       2 $30.70$ $31.26$ $0.56$ 1pper       3 $36.76$ $36.92$ $0.16$ 1pper       3 $36.76$ $36.92$ $0.16$ 1pper       4 $36.92$ $37.44$ $0.52$ 1pper       5 $37.44$ $37.72$ $0.28$ ower       6 $39.56$ $39.97$ $0.41$ ower       7 $39.97$ $40.32$ $0.35$ 5ex       8 $44.42$ $44.65$ $0.23$ 5ex       9&10 $44.65$ $45.22$ $0.57$ 5ex       13&14 $45.97$ $47.64$ $1.67$ 5ex       13&14 $45.97$ $47.64$ $1.67$ 5ex       17 $48.77$ $48.97$ $0.20$ ppper $18$ $72.01$ $72.20$ $0.19$ ppper $18$ $72.01$ $72.20$ $0.19$ pper $19&20$ $72.20$ $73.06$ $0.86$ rting $21$ $73.34$ $74.29$ $0.95$ ower | 7       2 $30.70$ $31.26$ $0.66$ $80.3$ ppper       3 $36.76$ $36.92$ $0.16$ $168.0$ ppper       3 $36.76$ $36.92$ $0.16$ $168.0$ ppper       5 $37.44$ $0.52$ $900.3$ ppper       5 $37.44$ $0.52$ $900.3$ ower       6 $39.56$ $39.97$ $0.41$ $729.1$ ower       7 $39.97$ $40.32$ $0.35$ $620.2$ sex       8 $44.42.$ $44.65$ $0.23$ $327.8$ sex $9\&10$ $44.65$ $45.22$ $0.57$ $1121.6$ Sex $18\&12$ $45.97$ $47.64$ $1.67$ $3086.4$ Sex $15\&16$ $47.64$ $48.77$ $1.13$ $1872.5$ Sex $17$ $48.77$ $48.97$ $0.20$ $248.1$ ppper $18$ $72.01$ $72.20$ $73.06$ $0.86$ $1339.2$ rting $21$ $73.06$ $73.34$ $0.28$ | 7230.7031.260.5680.37.39pipper336.7636.920.16168.07.40pipper436.9237.440.52900.38.68pipper537.4437.720.28200.58.90ower639.5639.970.41729.16.01ower739.9740.320.35620.26.205ex844.4244.650.23327.86.735ex9&1044.6545.220.571121.68.155ex11&1245.2245.970.751733.610.505ex13&1445.9747.641.673086.49.475ex15&1647.6448.771.131872.510.335ex1748.7748.970.20248.16.97pipper1872.0172.200.19197.810.50pipper1872.0172.200.19197.810.50ower2273.3474.290.951568.510.28ower2374.2974.350.06203.318.35utning2173.0673.340.28715.94.05ower2374.2974.350.06203.318.35utning2173.0673.340.28567.73.31pipper2678.9979.140.1586.05.13< | 7       2       30.70       31.26       0.56       880.3       7.39       0.60         upper       3       36.76       36.92       0.16       168.0       7.40       0.68         upper       4       36.92       37.44       0.52       900.3       8.68       0.56         upper       5       37.44       37.72       0.28       200.5       8.90       0.60         ower       6       39.56       39.97       0.41       729.1       6.01       0.56         ower       7       39.97       40.32       0.35       620.2       6.20       0.52         5ex       8       44.42       44.65       0.23       327.8       6.73       0.54         5ex       13&414       45.97       47.64       1.67       3086.4       9.47       0.57         5ex       13&414       45.97       47.64       1.67       3086.4       9.47       0.57         5ex       17       48.77       1.13       1872.5       10.33       0.71         5ex       17       48.77       4.163       0.86       1339.2       13.54       0.66         upper       19&20       72.20 | 7230.6250.6250.6361.6361.637.1661.7451.74ppper336.7636.920.16168.07.400.6816.29ppper436.9237.440.52900.38.680.5615.86ppper537.4437.720.28200.58.900.6013.38ower639.5639.970.41729.16.010.5619.16ower739.9740.320.35620.26.200.5214.11Sex844.4244.650.23327.86.730.5414.86Sex13&1445.9747.641.673086.49.470.577.34Sex13&1445.9747.641.673086.49.470.577.34Sex13&21445.9747.641.673086.49.470.577.34Sex1748.7748.970.20248.16.970.6813.15pper1872.0172.200.19197.810.500.5616.22pper19&2072.2073.060.86133.213.540.669.85ring2173.0673.340.28715.94.050.8256.73ower2374.2974.350.06203.318.350.6913.51upper2678.9979.140.5186.05.13 <t< td=""><td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>r       1       50.02       50.03       61.03       61.03       61.04       61.04       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05<!--</td--><td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td><td>1       2       30.00       30.00       50.00       50.00       50.00       50.00       50.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00<!--</td--><td>1       2       3       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0</td><td>1       2000       2000       2000       2000       2000       2000       2000       2000       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.00       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.21       1.51       1.60       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       1.51       <t< td=""><td>y       x       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z        p       z       <t< td=""><td>n         1         2         2         2         1         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0   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     0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>n       1       2.0.0       2.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0<!--</td--><td>1       2       2       2       2       1       2       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j     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 1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td></td></t<></td></t<></td></td></td></t<> | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | r       1       50.02       50.03       61.03       61.03       61.04       61.04       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05       50.05 </td <td><math display="block">\begin{array}{cccccccccccccccccccccccccccccccccccc</math></td> <td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td> <td><math display="block"> \begin{array}{cccccccccccccccccccccccccccccccccccc</math></td> <td>1       2       30.00       30.00       50.00       50.00       50.00       50.00       50.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00<!--</td--><td>1       2       3       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0</td><td>1       2000       2000       2000       2000       2000       2000       2000       2000       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.00       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.21       1.51       1.60       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       1.51       <t< td=""><td>y       x       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z        p       z       <t< td=""><td>n         1         2         2         2         1         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>n         1         2         2         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>n       1       2.0.0       2.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0<!--</td--><td>1       2       2       2       2       1       2       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       <thj< th=""> <thj< th=""></thj<></thj<></td><td>1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j</td><td>n         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td></td></t<></td></t<></td></td> | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | 1       2       30.00       30.00       50.00       50.00       50.00       50.00       50.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00       10.00 </td <td>1       2       3       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0</td> <td>1       2000       2000       2000       2000       2000       2000       2000       2000       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.00       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.21       1.51       1.60       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       1.51       <t< td=""><td>y       x       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z        p       z       <t< td=""><td>n         1         2         2         2         1         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         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0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>n       1       2.0.0       2.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0<!--</td--><td>1       2       2       2       2       1       2       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       <thj< th=""> <thj< th=""></thj<></thj<></td><td>1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j</td><td>n         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td></td></t<></td></t<></td> | 1       2       3       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 | 1       2000       2000       2000       2000       2000       2000       2000       2000       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       1.00       0.00       1.50       1.50       1.50       1.50       1.50       1.50       1.50       1.50       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.00       1.50       0.20       0.21       1.51       1.60       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       0.21       1.50       1.51 <t< td=""><td>y       x       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z        p       z       <t< td=""><td>n         1         2         2         2         1         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>n         1         2         2         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0</td><td>n       1       2.0.0       2.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0<!--</td--><td>1       2       2       2       2       1       2       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td><td>j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       <thj< th=""> <thj< th=""></thj<></thj<></td><td>1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j</td><td>n         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td></td></t<></td></t<> | y       x       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z       z        p       z <t< td=""><td>n         1         2         2         2         1         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         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 0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0<!--</td--><td>1       2       2       2       2       1       2       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1   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        1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td><td>j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j</td><td>n         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td></td></t<> | n         1         2         2         2         1         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 | n         1         2         2         2         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 | n       1       2.0.0       2.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0       0.0.0 </td <td>1       2       2       2       2       1       2       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1</td> <td>j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       <thj< th=""> <thj< th=""></thj<></thj<></td> <td>1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td> <td>j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j</td> <td>n         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1</td> | 1       2       2       2       2       1       2       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1 | j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j       j    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        1         1         1         1         1         1         1         1         1         1         1         1         1         1 | j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j         j | n         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1     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|----------|---------|--------|-------------|--------|--------|---------|-------|----------|-------|----------|-------|------|---------|--------|---------|---------|----------|-------------------|-------|-------------|------|------------|-------|------------|-------------|-------------|
|          |         |        | DRILLED INT | FERVAL | SAMPLE | REJECT  | MOIST | TURE     |       | ASH      |       | TO   | (AL SUL | FUR    | SULF    | UR FOR  | MS       | SPECIFIC          |       | rock volume | c    | rock de    | nsity | composite  | composite   | on seam     |
| HOLE     | SEAM    | SAMPLE | From        | To     | THKNES | WEIGHT  | %     | <b>,</b> |       | <u> </u> |       |      | %       |        |         |         | <u> </u> | GRAVITY           | Enter | sum         | prop | sum        | prop  | ash (DB)   | sulfur (DB) | composite   |
| #        |         | #      | (m)         |        | (m)    | (gms)   | A.R.  | A.D.     | A.R.  | A.D.     | D.B.  | A.R. | A.D.    | D.B.   | Duritia | - A.D   |          | (Meas'd) (Calc'd) | here  | 0.00        | 0.00 | 0,00       | 0,00  | ····       |             | 0.00        |
| T92R-30C | 9       | 1      | 30,87 - 3   | 31.24  | 0.37   | 1382,1  | 4.15  | 1.34     | 13,65 | 14.05    | 14,24 | 2.72 | 2.80    | 2.84   | rynne   | SUIMALE | Organic  | 1.41              |       |             |      |            |       |            |             |             |
|          | 8       | 2-3-4  | 32.48 - 3   | 32.93  | 0.45   | 2152.2  | 4.22  | 1.05     | 17.75 | 18,34    | 18.53 | 3,26 | 3.37    | 3.41   |         |         |          | 1.45              |       |             |      |            |       | 0,00       | 0.00        |             |
|          | 8       | 5      | 32.93 - 1   | 33.77  | 0,84   | 4616.3  | 5,31  | 1.56     | 14.90 | 15,49    | 15.74 | 0,72 | 0.75    | 0,76   |         |         |          | 1.43              |       |             |      |            |       |            |             |             |
|          | 8       | 6      | 33.77 - 1   | 34.17  | 0.40   | 1651,0  | 4,99  | 1.86     | 16.67 | 17.22    | 17.55 | 0.46 | 0,48    | 0.49   |         |         |          | 1.44              |       |             |      |            |       |            |             |             |
|          | 6 upper | 7      | 58.16 - 3   | 58.60  | 0.44   | 1953,3  | 7.69  | 1.12     | 8.93  | 9.37     | 9.68  | 0.95 | 1,02    | 1.03   |         |         |          | 1.38              |       |             |      |            |       | 0.00       | 0.00        |             |
|          | 6 upper | 8-9    | 58,60 - 3   | 59.35  | 0.75   | 2881.1  | 7.03  | 0.80     | 8,30  | 8,86     | 8.93  | 0.78 | 0.83    | 0.84   |         |         |          | 1.37              |       |             |      |            |       |            |             |             |
|          | 6 lower | 10     | 59,89 - 3   | 59.95  | 0.06   | 183.6   | 4,36  | 0.92     | 18,60 | 19.27    | 19.45 | 7.39 | 7.66    | 7.73   |         |         |          | 1.46              |       |             |      |            |       | 0,00       | 0.00        |             |
|          | 6 lower | 11-12  | 59.95 - 6   | 60.55  | 0,60   | 3238.7  | 7.01  | 0.87     | 8,28  | 8,83     | 8,91  | 0.91 | . 0.97  | 0,98   |         |         |          | 1.37              |       |             |      |            |       |            |             |             |
|          | 6 lower | 13     | 60,55 - 6   | 60.81  | 0.26   | 1366,5  | 5.48  | 1.44     | 17.40 | 18.14    | 18.41 | 1.91 | 1.99    | 2.02   |         |         |          | 1.45              |       |             |      |            |       |            |             |             |
|          | ?       | 14     | 62,55 - (   | 62.80  | 0.25   | ,       |       |          |       |          |       |      |         |        |         |         |          |                   |       |             |      |            |       |            |             |             |
|          | 5       | 15     | 62.80 - (   | 63.11  | 0.31   | 356,4   | 22,26 | 0.78     | 8.81  | 11,25    | 11,34 | 0.63 | 0,81    | 0.82   |         |         |          | 1,39              |       |             |      |            |       | 0,00       | 0.00        |             |
|          | 5       | 16-17  | 63.11 - (   | 63.44  | 0.33   | 2000.6  | 9.09  | 1,14     | 10.77 | 11.71    | 11.85 | 1,67 | 1.82    | 1.84   |         |         |          | 1.39              |       |             |      |            |       |            |             |             |
|          | 5       | 18     | 63,44 - (   | 63,53  | 0.09   | 294.0   | 17.74 | 0.64     | 39.88 | 48.17    | 48.48 | 1.46 | 1.76    | 1.77   |         |         |          | 1.81              |       |             |      |            |       |            |             |             |
|          | 5       | 19     | 63.53 - 0   | 64.90  | 1,37   | 5709.6  | 8.70  | 0.92     | 7.10  | 7,70     | 7,77  | 0.77 | 0.84    | 0.85   |         |         |          | 1.36              |       |             |      |            |       |            |             |             |
|          | 5       | 20-21  | 64.90 - 0   | 65,94  | 1.04   | \$335.0 | 6.35  | 1.30     | 10,80 | 11,38    | 11.53 | 0,40 | 0.42    | 0.43   |         |         |          | 1.39              |       |             |      |            |       |            |             |             |
|          | 5       | 22-23  | 65.94 - 0   | 66.43  | 0.49   | 465.1   | 17,77 | 1.01     | 22.83 | 27.49    | 27,77 | 0.40 | 0.48    | 0,48   |         |         |          | 1,55              |       |             |      |            |       | •          |             |             |
|          | 5       | 24-25  | 66.43 - 0   | 66.79  | 0.36   | 4318.9  | 5.49  | 0,80     | 16.06 | 16.86    | 17.00 | 0.45 | 0.47    | 0,47   |         |         |          | 1.44              |       |             |      |            |       |            |             |             |
|          | 3 upper | 26     | 68,69 - (   | 68.89  | 0,20   | 1062.5  | 5.46  | 0.80     | 24,26 | 25,46    | 25.67 | 5.57 | 5.85    | 5.90   |         |         |          | 1.53              |       |             |      |            |       | 0,00       | 0.00        |             |
|          | 3 upper | 27     | 68,89 - 0   | 69.40  | 0,51   | 1762.9  | 6.39  | 0.61     | 14.62 | 15,52    | 15,62 | 0.87 | 0.92    | 0.93   |         |         |          | 1.43              |       |             |      |            |       |            |             | ×           |
|          | 3 upper | 28     | 69.40 - 6   | 69.64  | 0,24   | 956.5   | 5,56  | 0.61     | 25.17 | 26.49    | 26.65 | 0,37 | 0,39    | 0.39   |         |         |          | 1,54              |       |             |      |            |       |            |             |             |
|          | 3 Iower | 29     | 70.54 - 1   | 70.79  | 0.25   | 3119.0  | 3,72  | 0,53     | 26.03 | 26.89    | 27.03 | 0,58 | 0.60    | 0,60   |         |         |          | 1,54              |       |             |      |            |       | 0.00       | 0.00        |             |
|          | 3 lower | 30     | 70.79 - 1   | 71.43  | 0.64   | 2798.5  | 3,71  | 0.93     | 15.30 | 15.74    | 15.89 | 0.95 | 0,98    | 0.99   |         |         |          | 1.43              |       |             |      |            |       |            |             |             |
|          | 2 upper | 31     | 76,23 -     | 76,67  | 0,44   | 922.0   | 2,33  | 0.71     | 35,37 | 35,96    | 36.22 | 3.80 | 3.86    | 3.89 · |         |         |          | 1.64              |       |             |      |            |       |            |             |             |
|          | 2       | 32     | 77.13 - 1   | 77.35  | 0,22   | 916.0   | 6.09  | 0.99     | 14.76 | 15,56    | 15.72 | 3.12 | 3.29    | 3.32   |         |         |          | 1.43              |       |             |      |            |       | 0.00       | 0.00        |             |
|          | 2       | 33     | 77.35 - 1   | 77.60  | 0.25   | 4343.5  | 4.50  | 1.24     | 22.94 | 23.72    | 24,02 | 1,16 | 1.20    | 1.22   |         |         |          | 1,51              |       |             |      |            |       |            |             |             |
|          | 2       | 34-35  | 77.60 + 1   | 78.58  | 0,98   | 1795.0  | 4,79  | 1.57     | 14.78 | 15.28    | 15,52 | 0.49 | 0.51    | 0,52   |         |         | ~        | 1.43              |       |             |      |            |       |            |             |             |
|          | 2       | 36     | 78.58 - 1   | 78.69  | 0.11   | 657.9   | 3.28  | 1,98     | 42.94 | 43.52    | 44.40 | 0.31 | 0.31    | 0.32   |         |         |          | 1.74              |       |             |      |            |       |            |             |             |
|          | 2       | 37     | 78.69 - 1   | 79.31  | 0.62   | 3362.8  | 6,50  | 1.73     | 9,68  | 10.17    | 10.35 | 0.44 | 0.46    | 0,47   |         |         |          | 1.38              |       |             |      |            |       |            |             |             |
|          | 2       | 38     | 79,31 - 1   | 80,34  | 1.03   | 4870.2  | 5.35  | 2.57     | 9,60  | 9,88     | 10.14 | 0.48 | 0.49    | 0.50   |         |         |          | 1.38              |       |             |      |            |       |            |             |             |
|          |         |        |             |        |        |         |       |          |       |          |       |      |         |        |         |         |          |                   |       |             |      |            |       |            |             |             |

ALTROJANAL XLS

|         |      | •      |           |         |                                        |        |       |      |             |       |       |      |         |      |                         |                   | Cal   | e'd %ages by | y (  | Calc'd %age | es by | Calc'd raw | Calc'd raw  | Cale'd S.G. |
|---------|------|--------|-----------|---------|----------------------------------------|--------|-------|------|-------------|-------|-------|------|---------|------|-------------------------|-------------------|-------|--------------|------|-------------|-------|------------|-------------|-------------|
|         |      |        | drilled i | NTERVAL | SAMPLE                                 | REJECT | MOIST | TURE |             | ASH   |       | TO   | CAL SUL | FUR  | SULFUR FORMS            | SPECIFIC          |       | rock volume  | •    | rock der    | isity | composite  | composite   | on seam     |
| HOLE    | SEAM | SAMPLE | From      | To      | THKNES                                 | WEIGHT | %     | i    | <del></del> | %     |       |      | %       |      |                         | GRAVITY           | Enter | sum          | prop | sum         | ргор  | ash (DB)   | sulfur (DB) | composite   |
| Ħ       |      | #      | (m        | 1)      | (m)                                    | (gms)  | A.R.  | A.D. | A.R.        | A.D.  | D.B.  | A.R. | A.D.    | D.B. | A.D                     | (Meas'd) (Cale'd) | here  | 0,00         | 0.00 | 0.00        | 0.00  |            |             | 0,00        |
|         |      |        |           |         | ······································ |        |       |      |             |       |       |      |         |      | Pyritic Sulfate Organic |                   | te    |              |      |             |       |            | •           |             |
| T92D-31 | 6ц   | 1      | 29.44 -   | 29.91   | 0,47                                   | 732.0  | 7,20  | 0.58 | 9.18        | 9.84  | 9,90  | 1,61 | 1.72    | 1.73 |                         | 1.38              |       |              |      |             |       | 0.00       | 0,00        |             |
|         | 6u   | 2      | 29.91 -   | 30.51   | 0,60                                   | 1106,0 | 6,97  | 0,74 | 9.37        | 10.00 | 10.07 | 0.53 | 0.57    | 0,57 |                         | 1.38              |       |              |      |             |       |            |             |             |
|         | 6u   | 3      | 30.51 -   | 30.90   | 0.39                                   | 622.2  | 8.04  | 0,84 | 11.12       | 11.99 | 12.09 | 0.74 | 0.80    | 0.81 |                         | • 1.40            |       |              |      |             |       |            |             |             |
|         | 61   | 4      | 34.88 -   | 35.07   | 0.19                                   | 213.1  | 6.92  | 0,70 | 16,34       | 17.43 | 17.55 | 2,70 | 2.88    | 2.90 |                         | 1.45              |       |              |      |             |       | 0.00       | 0.00        |             |
|         | 61   | 5      | . 35.07 - | 36.03   | 0.96                                   | 1920.0 | 6.11  | 0.79 | 8,99        | 9.50  | 9.58  | 1.35 | 1.43    | 1.44 |                         | 1.38              |       |              |      |             |       |            |             |             |
|         | 61   | 6      | 36.03 -   | 36,20   | 0.17                                   | 188.3  | 5.81  | 0,72 | 7,82        | 8,24  | 8.30  | 0.61 | 0.64    | 0.64 |                         | 1.36              |       |              |      |             |       |            |             |             |
|         | ?    | 7      | 43,55 -   | 43,72   | 0,17                                   | 117.6  | 8.11  | 0.56 | 21.60       | 23,37 | 23.50 | 1.96 | 2.12    | 2.13 |                         | 1.50              |       |              |      |             |       |            |             |             |
|         | Sex  | 8      | 45.20 -   | 45.51   | 0,31                                   | 441,7  | 7.17  | 0.81 | 10,06       | 10.75 | 10,84 | 2.71 | 2.90    | 2.92 | ·                       | 1.39              |       |              |      |             |       | 0.00       | 0,00        |             |
|         | Sex  | 9&10   | 45,51 -   | 46,94   | 1.43                                   | 3099.8 | 6,69  | 0.71 | 15.44       | 16.43 | 16.55 | 0,52 | 0,55    | 0.55 |                         | 1,44              |       |              |      |             |       |            |             |             |
|         | 5ex  | 11     | 46.94 -   | 47,35   | 0,41                                   | 468,9  | 11,43 | 0.47 | 14.28       | 16,05 | 16.13 | 0,63 | 0,71    | 0.71 |                         | 1.43              |       |              |      |             |       |            |             |             |
|         | 4u   | 12     | 58.49 -   | 58.65   | 0.16                                   | 212.2  | 4.78  | 0.62 | 11.84       | 12.36 | 12.44 | 3.31 | 3,45    | 3.47 |                         | 1,40              |       |              |      |             |       | 0.00       | 0.00        |             |
|         | 4u   | 13     | 58.65 -   | 59.22   | 0.57                                   | 1004.9 | 6.05  | 0.54 | 8.69        | 9.20  | 9.25  | 1.24 | 1.31    | 1.32 |                         | 1.37              |       |              |      |             |       |            |             |             |
|         | 4u   | 14     | 59.22 -   | 59,49   | 0.27                                   | 418.1  | 6:31  | 0.56 | 15.27       | 16.21 | 16.30 | 1.65 | 1.75    | 1.76 |                         | 1.43              |       |              |      |             |       |            |             |             |
| •       | 41   | 15     | 62.01 -   | 62.25   | 0.24                                   | 177,0  | 4.96  | 0.60 | 23,43       | 24,50 | 24.65 | 0,83 | 0.87    | 0.88 |                         | 1.52              |       |              |      |             |       | 0,00       | 0.00        |             |
|         | 41   | 16     | 62.25 -   | 62,86   | 0,61                                   | 951,0  | 7,12  | 0,58 | 9.92        | 10.62 | 10,68 | 0.92 | 0,99    | 1.00 | · _                     | 1.38              |       |              |      |             |       |            |             |             |
|         | 3u   | 17     | 76.97 -   | 77.17   | 0.20                                   | 228,6  | 4.36  | 0.77 | 27.88       | 28.93 | 29.15 | 3,55 | 3.68    | 3.71 | -                       | 1,56              |       |              |      |             |       | 0.00       | 0.00        |             |
|         | 3u   | 18     | 77.17 -   | 77.57   | 0.40                                   | 686.9  | 3,87  | 0,72 | 29.09       | 30.04 | 30.26 | 1.13 | 1.17    | 1.18 |                         | 1.58              |       |              |      |             |       |            |             |             |
|         | 31   | 19     | 77.92 -   | 78.43   | 0,51                                   | 570.9  | 4.80  | 0.79 | 21.48       | 22.39 | 22,57 | 0.65 | .68     | 0.69 |                         | 1.49              |       |              |      |             |       | 0.00       | 0.00        |             |
|         | 31   | 20     | 78.43 -   | 78.65   | 0.22                                   | 816,2  | 4.62  | 0.67 | 21.87       | 22,78 | 22.93 | 1,08 | 1.12    | 1.13 |                         | 1,50              |       |              |      |             |       |            |             |             |

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#### TELKWA PROJECT - 1994 PLY ANALYSIS SUMMARY AND COMPOSITE CALCULATIONS

|          |         |        |         | TREFF TRATA | CAMPLE   | nemor  | MOIS  | TIDE  |       | 1077  |       |       |         |        |         | -              |         | <b></b>  |          | Cal   | c'd %ages by | у    | Cale'd %ag | es by | Calc'd raw | Cale'd raw  | Calc'd S.G. |
|----------|---------|--------|---------|-------------|----------|--------|-------|-------|-------|-------|-------|-------|---------|--------|---------|----------------|---------|----------|----------|-------|--------------|------|------------|-------|------------|-------------|-------------|
|          |         |        | DRILLED | T           | L SAMPLE | REJECT | MOIS. | I URE |       | ASH   |       | TO    | TAL SUI | FUR    | SU      | LFUR FOI       | RMS     | SPECI    | FIC      |       | rock volume  | •    | rock de    | nsity | composite  | composite   | on seam     |
| HOLE     | SEAM    | SAMPLE | From    | 10          | THKNES   | WEIGHT | »     |       |       |       |       |       |         |        |         | %              |         | GRAV     | ITY      | Enter | sum          | prop | sum        | ргор  | ash (DB)   | sulfur (DB) | composite   |
| #<br>    |         | #      | , (<br> | nı)<br>     | (0)      | (gms)  | A.K.  | A.D.  | А.К.  | A.D.  | D.B.  | A.R.  | A.D.    | D.B.   | Pyritic | A.D<br>Sulfate | Organic | (Meas'd) | (Calc'd) | here  | 5,66         | 1,00 | 7,83       | 1,00  |            |             | 0.00        |
|          |         |        |         |             | ,        |        |       |       |       |       |       |       |         | •      |         |                |         | ¥        |          |       |              |      |            |       |            |             |             |
| T94R-04C | c       | 1      | 40,44   | 40,56       | 0,12     |        | 6.11  | 0.78  | 26.01 | 27.49 | 27.71 | 11.27 | 11.91   | 12.00  |         |                |         |          | 1.57     |       |              |      |            |       |            |             |             |
|          | c       | 2&3    | 40,56   | 41.35       | 0.79     |        | 4.44  | 1.17  | 20.56 | 21.26 | 21.51 | 3,29  | 3,40    | 3.44   |         |                |         |          | 1,50     |       |              |      |            |       |            |             |             |
|          | c       | 4      | 41,35   | 43,28       | 1.93     |        | 5,23  | 1.10  | 13.47 | 14.06 | 14.22 | 2.25  | 2.35    | 2,38   |         |                |         |          | 1.42     |       |              |      |            |       |            |             |             |
|          | 7       | 5      | 49.40   | 49.76       | 0.36     |        | 5.17  | 0.78  | 14.55 | 15.22 | 15.34 | 3,80  | 3,98    | 4.01   |         |                |         |          | 1.43     |       |              |      |            |       |            |             |             |
|          | IU RI   | 0      | 53.70   | 53.95       | . 0.25   |        | 2.83  | 1.04  | 81,26 | 82,76 | 83.63 | 4.26  | 4.34    | 4.39   | 2.55    | 0,04           | 1.80    |          | 2.48     |       |              |      |            |       |            |             |             |
|          | 10      | 7      | 53,95   | 54,30       | 0,35     |        | 4.27  | 1.21  | 29,36 | 30,30 | 30.57 | 4.46  | 4.60    | 4.66   |         |                |         |          | 1.60     | 1     | 0.35         | 0.06 | 0,56       | 0.07  |            |             |             |
|          | 10      | 8      | 54.30   | 54.69       | 0.39     |        | 6.72  | 1.12  | 7.42  | 7.86, | 7.95  | 1.99  | 2.11    | 2.13   |         |                |         |          | 1,35     | I     | 0.39         | 0.07 | 0.53       | 0.07  |            |             | •           |
|          | 10      | 9      | 54,69   | 55.80       | 1,11     |        | 7,57  | 1.11  | 7.38  | 7.90  | 7.99  | 0.74  | 0.79    | 0,80   |         |                |         | 1,33     | 1.33     | I     | 1,11         | 0,20 | 1.48       | 0.19  |            |             |             |
|          | 1 Prtg  | 10     | 55.80   | 56.36       | 0.56     |        | 2.94  | 1.04  | 77.24 | 78.75 | 79.58 | 0.13  | 0,13    | 0.13   | 0.02    | <0.01          | 0.11    |          | 2,39     |       |              |      |            | •     |            |             |             |
|          | 1       | 11     | 56.36   | 56.86       | 0.50     |        | 5,49  | 1,53  | 12,46 | 12,98 | 13.18 | 0.45  | 0.47    | 0.48   |         |                |         |          | 1.41     | 1     | 0.50         | 0,09 | 0,70       | 0.09  |            |             |             |
|          | 1       | 12     | 56,86   | 57,28       | 0,42     |        | 6.47  | 1.17  | 11.47 | 12.12 | 12.26 | 1.32  | 1.39    | 1.41   |         |                |         |          | 1.40     | 1     | 0.42         | 0.07 | 0.59       | 0.07  |            |             |             |
|          | I       | 13&14  | 57.28   | 59.40       | 2.12     |        | 7.09  | 1.16  | 16.69 | 17,75 | 17.96 | 0,79  | 0,84    | 0,85   |         |                |         | 1.38     | 1.38     | 1     | 2,12         | 0.37 | 2,93       | 0.37  |            |             |             |
|          | 1       | 15     | 59,40   | 60.17       | 0.77     |        | 7.59  | 1.14  | 8.77  | 9.38  | 9.49  | 0.47  | 0.50    | 0,51   |         |                |         |          | 1.36     | 1     | 0.77         | 0.14 | 1,05       | 0,13  |            |             |             |
|          | 1 Floor | 16     | 60.17   | 60.50       | 0.33     |        | 2,90  | 0,92  | 80,44 | 82.08 | 82.84 | 0.42  | 0.43    | 0.43   | 0.17    | 0.01           | 0,25    |          | 2.46     |       |              |      |            |       |            |             |             |
|          | lLa/b   | 17     | 62.16   | 63.05       | 0.89     |        | 3.88  | 0,82  | 38.29 | 39,51 | 39.84 | 3.16  | 3.26    | 3.29   | 1.84    | 0.04           | 1,41    |          | 1.72     |       |              |      |            |       |            |             |             |
|          |         |        | ** **   | <i></i>     |          |        | 1.54  |       |       |       |       |       |         |        |         |                |         |          |          |       |              |      |            |       |            |             |             |
| 194R-10C | c       | 1      | 54,53   | 55,14       | 0.61     |        | 4.76  | 0,79  | 21.38 | 22.27 | 22.45 | 3,61  | 3.76    | 3.79   |         |                |         |          | 1.51     |       |              |      |            |       |            |             |             |
|          | c       | 2      | 55.14   | 55.60       | 0.46     |        | 4,30  | 0,88  | 28,88 | 29.31 | 30.18 | 2.61  | 2.70    | 2.72   |         |                |         |          | 1.59     |       |              |      |            |       |            |             |             |
|          | с<br>   | 3      | 55.60   | 56.36       | 0.76     |        | 5.79  | 0.82  | 12,16 | 12,80 | 12.91 | 0.60  | 0.63    | 0.64   |         |                |         |          | 1.40     |       |              |      |            |       |            |             |             |
|          | c Floor | 4      | 56,36   | 56,60       | 0.24     |        | 6.98  | 1,18  | 80.44 | 85,46 | 86,48 | 0.15  | 0.16    | 0.16   |         |                |         |          | 2.55     |       |              |      |            |       |            |             |             |
|          | IU Root | 5      | 70,90   | 71,15       | 0,25     |        | 4.46  | 0.93  | 84,95 | 88.09 | 88,92 | 1.92  | 1.99    | 2,01   | 1.16    | 0.04           | 0.81    |          | 2,62     |       |              |      |            |       |            |             |             |
|          | 10      | 6      | 71,15   | 71,45       | 0.30     |        | 4.30  | 0.94  | 29.12 | 30,14 | 30.43 | 4,55  | 4.71    | 4,75   |         |                |         |          | 1.60     |       |              |      |            |       |            |             |             |
|          | IU      | 7      | 71.45   | 72.38       | 0.93     |        | 6,86  | 0.83  | 5.24  | 5.58  | 5.63  | 1.27  | 1,35    | 1,36   |         |                |         |          | 1,32     |       |              |      |            | •     |            |             |             |
|          | 10      | 8      | 72,38   | 73,46       | 1.08     |        | 5.91  | 1.10  | 13.39 | 14.08 | 14,24 | 0.47  | 0.49    | 0,50   |         |                |         |          | 1,42     |       |              |      |            |       |            |             |             |
|          | IU      | 9      | 73.46   | 73.66       | . 0.20   |        | 6.37  | 0,81  | 55.10 | 58.37 | 58.85 | 0,19  | 0,20    | 0.20   |         |                |         |          | 1.99     |       |              |      |            |       |            |             |             |
|          | 1 Prtg  | 10     | 73.66   | 74.94       | 1.28     | ,      | 4.35  | 0,89  | 79.66 | 82.54 | 83.28 | 0.12  | 0,12    | 0.12   | 0.01    | <0,01          | 0.11    | •        | 2.48     |       |              |      |            |       |            |             |             |
|          | 1       | 11&12  | 74.94   | 75.61       | 0.67     |        | 5.37  | 1.00  | 24,63 | 25.77 | 26.03 | 0.35  | 0.37    | 0.37   |         |                |         |          | 1,55     |       |              |      | •          |       |            |             |             |
|          | 1       | 13&14  | 75.61   | 77.93       | 2.32     |        | 9.77  | 0.91  | 11,31 | 12.42 | 12.53 | 0.35  | 0.38    | 0.38   |         |                |         |          | 1.40     |       |              |      |            |       |            |             |             |
|          | 1       | 15     | 77.93   | 78.21       | . 0,28   |        | 3.76  | 1,00  | 32,98 | 33,92 | 34.26 | 0.31  | 0.32    | 0.32   |         |                |         |          | 1.65     |       |              |      |            |       |            |             |             |
|          | 1       | 16     | 78.21   | 79.05       | 0,84     |        | 6.17  | 0.85  | 8,80  | 9,30  | 9.38  | 0.50  | 0.53    | 0.53   |         |                |         |          | 1.36     |       |              |      |            |       |            |             |             |
|          | 1 Floor | 17     | 79.05   | 79,40       | 0,35     | ~      | 4.12  | 0.89  | 81,25 | 83,98 | 84.73 | 3.41  | 3.52    | 3.55   | 2.25    | 0.03           | 1.27    |          | 2.51     |       |              |      |            |       |            |             |             |
|          | ILa     | 18&19  | 81,51   | 81.85       | 0,34     |        | 7.05  | 0.95  | 52.16 | 55,58 | 56,11 | 2.01  | 2.14    | 2.16 · |         |                |         |          | 1.94     |       |              |      |            |       |            |             |             |

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|      | x.         |          | DRILLED I      | INTERVAL       | SAMPLE                    | REJECT | MOIST        | URE          |                | ASH            |                | TO           | AL SUL       | FUR            | SU      | LFUR FO         | RMS             | SPECIFIC          | Ca    | lc'd %ages by<br>rock volume | I    | Cale'd %ag<br>rock de | es by<br>nsîty | Calc'd raw<br>composite | Calc'd raw<br>composite | Calc'd S.G.<br>on seam |
|------|------------|----------|----------------|----------------|---------------------------|--------|--------------|--------------|----------------|----------------|----------------|--------------|--------------|----------------|---------|-----------------|-----------------|-------------------|-------|------------------------------|------|-----------------------|----------------|-------------------------|-------------------------|------------------------|
| HOLE | SEAM SA    | MPLE     | From           | To             | THKNES                    | WEIGHT | %            |              |                | %              |                |              |              |                | <u></u> |                 |                 | GRAVITY           | Enter | sum                          | prop | sum                   | prop           | ash (DB)                | sulfur (DB)             | composite              |
| #    |            | #        | (r             | n)             | (m)                       | (gms)  | A.R.         | A.D.         | A.R.           | A.D.           | D.B.           | A.R.         | A.D.         | D.B.           |         | A.D             |                 | (Meas'd) (Calc'd) | here  | 5,66                         | 1.00 | 7.83                  | 1,00           |                         |                         | 0.00                   |
|      | lLa<br>1Lb | 20<br>21 | 81.85<br>84.08 | 82.60<br>84.52 | 0.75 <sup>-</sup><br>0.44 |        | 5.45<br>3,58 | 0.70<br>0.98 | 19.44<br>21.56 | 20.42<br>22.14 | 20:56<br>22,36 | 1.90<br>1.51 | 2.00<br>1.55 | 2.01 ·<br>1.57 | Pyritic | Sulfate<br>0.01 | Organic<br>0.79 | 1.49<br>1.51      |       |                              |      |                       |                |                         |                         |                        |

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|          |         |        | DRILLED        | INTERVAI       | L SAMPLE | REJECT | MOIS | TURE |       | ASH   |                | TO    | ral sui | FUR           | SU      | LFUR FO | RMS     | SPEC     | IFIC     | Cal   | e'd %ages b<br>rock volum | c<br>C | Cale'd %aş<br>rock de | cs by<br>ensity | Cale'd raw composite | Calc'd raw<br>composite                 | Calc'd S.G.<br>on scam |
|----------|---------|--------|----------------|----------------|----------|--------|------|------|-------|-------|----------------|-------|---------|---------------|---------|---------|---------|----------|----------|-------|---------------------------|--------|-----------------------|-----------------|----------------------|-----------------------------------------|------------------------|
| HOLE     | SEAM    | SAMPLE | From           | То             | THKNES   | WEIGHT | %    | á —— |       | %     |                |       | %       |               |         |         |         | GRA      | VITY     | Enter | sum                       | prop   | sum                   | DIOD            | ash (DB)             | sulfur (DB)                             | composite              |
| H        |         | #      | (              | m)             | (m)      | (gms)  | A.R. | A.D. | A.R.  | A.D.  | D.B.           | A.R.  | Å.D.    | D.B.          |         | A.D     |         | (Meas'd) | (Calc'd) | here  | 5.66                      | 1.00   | 7.83                  | 1.00            |                      |                                         | 0.00                   |
| T04D-24C | 1 Poof  | 1      | 90 N9          | 94.20          | 0.21     | - I    | 2 90 | 1 12 | 96.01 | 97 46 | 00.46          |       | 6.00    |               | Pyritic | Sulfate | Organic | :        |          |       |                           |        |                       |                 |                      | • • • • • • • • • • • • • • • • • • • • |                        |
| 1948-246 | TKOOL   | 2      | 84.00<br>84.70 | 04.47<br>84.55 | 0.21     | •      | 3.09 | 0.74 | 20.92 | 07,40 | 21.95          | 2.00  | 3.64    | 3.89<br>'3.66 | 3.33    | 0,04    | 2.52    |          | 2.60     |       |                           |        |                       |                 | •                    |                                         |                        |
|          | 1       | 2      | 84 55          | 85 17          | 0.62     |        | 3 83 | 0.74 | 23 80 | 24 55 | 31.0J<br>24.75 | 2.30  | 1.66    | 2.00          |         |         |         |          | 1.02     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 1       | 485    | 85 17          | 86 56          | 1 39     |        | 2.88 | 0.01 | 23,50 | 24,55 | 24.75          | 3.65  | 3 72    | 3.76          |         |         |         | •        | 1.24     |       |                           |        |                       |                 |                      |                                         |                        |
|          | г.<br>Т | 6&7    | 86.56          | 87.11          | 0.55     |        | 3.14 | 0.82 | 21.03 | 22.46 | 22,65          | 3.00  | 3 30    | 3 33 '        |         |         |         |          | 1.55     |       |                           |        |                       |                 |                      | -                                       |                        |
|          | 1 Fir   | 8      | 87.11          | 87.19          | 0.08     |        | 3.15 | 0.77 | 59.96 | 61.43 | 61.91          | 6.33  | 6.49    | 6.54          |         |         |         | 1.570    | 1.57     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 1 Fir   | 9      | 87.19          | 88.05          | 0.86     |        | 3.74 | 0.71 | 81.76 | 84.33 | 84.93          | 1.22  | 1.26    | 1 27          | 0.88    | 0.01    | 0 38    | 1,51     | 2.57     |       | -                         |        |                       |                 |                      |                                         |                        |
|          | 1La     | 10     | 88.05          | 88.58          | 0.53     |        | 2.70 | 0.49 | 33.38 | 34.14 | 34.31          | 4.35  | 4.45    | 4.47          | 2.36    | 0.01    | 2.10    |          | 1.65     | •     |                           |        |                       |                 |                      |                                         |                        |
|          | 1Lb     | 11     | 89.07          | 89.77          | 0.70     |        | 3.13 | 0.58 | 46,68 | 47.91 | 48.19          | 0.22  | 0.23    | 0.23          | 0.01    | 0.01    | 0.21    |          | 1.83     |       |                           |        |                       |                 |                      |                                         |                        |
|          |         |        |                |                |          |        |      |      |       |       |                |       |         |               |         |         |         |          |          |       |                           |        |                       |                 |                      |                                         |                        |
| T94R-29C | 7?      | 1      | 44.52          | 45.12          | 0.60     |        | 3.79 | 0.68 | 15,26 | 15.75 | 15,86          | 3.01  | 3.11    | 3.13          | 1.77    | 0.12    | 1.24    | •        | 1.44     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 6U?     | 2      | 54.21          | 54,64          | 0,43     |        | 6.43 | 0.84 | 15.16 | 16.07 | 16.21          | 1,31  | 1.39    | 1.40          |         |         |         |          | 1.44     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 6U?     | 3      | 54.64          | 54.91          | 0.27     |        | 4.89 | 0,70 | 28.59 | 29.85 | 30.06          | 3.18  | 3,32    | 3,34          |         |         |         |          | 1.60     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 7       | 4      | 55.58          | 55.68          | 0.10     |        | 4.98 | 0.84 | 27,10 | 28,28 | 28,52          |       |         |               |         |         |         |          | 1.58     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 6L?     | 5      | 56.11          | 56,40          | 0,29     |        | 3.99 | 0.74 | 40.97 | 42.36 | 42.68          | 0,52  | 0,54    | 0.54          |         |         |         |          | 1.75     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 6L?     | 6      | 56.40          | 56.81          | 0.41     |        | 4.53 | 0.96 | 62.00 | 64.32 | 64.94          | 0.29  | 0.30    | 0,30          |         |         |         |          | 2.09     |       |                           |        |                       |                 |                      |                                         | -                      |
|          | 7       | 7      | 62,47          | 62,73          | 0,26     |        | 3.26 | 0.60 | 33.65 | 34.57 | 34.78          | 2.03  | 2.09    | 2.10          | ~       |         |         |          | 1.65     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 5       | 8      | 63.19          | 63.70          | 0.51     | •      | 5.24 | 0.67 | 27.25 | 28.56 | 28.75          | 0.50  | 0.52    | 0.52          |         |         |         |          | 1.58     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 5       | 9      | 63.70          | 64.62          | 0.92     |        | 6.99 | 0,79 | 13,70 | 14.61 | 14.73          | 0.36  | 0.38    | 0.38          |         |         |         |          | 1.42     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 5       | 10     | 64,62          | 65,02          | 0,40     |        | 6.64 | 0.52 | 12.01 | 12.80 | 12.87          | 0.44  | 0,47    | 0,47          |         |         |         |          | 1,40     |       |                           |        |                       |                 |                      |                                         |                        |
|          | ?       | 11     | 70.00          | 70.20          | 0.20     |        | 2,58 | 0.35 | 50.77 | 51,93 | 52.11          | 12,96 | 13.26   | 13.31         |         |         |         |          | 1.89     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 7       | 12     | 71,00          | 71.57          | 0.57     |        | 3,77 | 0,53 | 29.29 | 30.28 | 30.44          | 0.78  | 0,81    | 0.81          |         |         |         |          | 1.60     |       |                           |        |                       |                 |                      |                                         |                        |
|          | ?       | 13     | 71.57          | 72.17          | 0.60     |        | 5.72 | 0,58 | 25.10 | 26.47 | 26.62          | 0.43  | 0.45    | 0.45          |         |         |         |          | 1.56     |       |                           |        |                       |                 |                      | 1                                       |                        |
|          | ?       | 14     | 73.24          | 73.51          | 0.27     |        | 3.52 | 0,65 | 32,73 | 33,70 | 33.92          | 0.37  | 0.38    | 0.38          |         |         |         |          | 1.64     |       |                           |        |                       |                 | •                    |                                         |                        |
|          | ?       | 15     | 73,51          | 74.09          | 0,58     |        | 6.49 | 0.44 | 43.46 | 46,27 | 46,47          | 4,20  | 4.47    | 4.49          |         |         |         |          | 1,81     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 4       | 16     | 76,50          | 76,63          | 0.13     |        | 3.61 | 0.51 | 23.65 | 24.41 | 24.54          | 5,23  | 5.40    | 5.43          |         |         |         |          | 1,53     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 4       | 17     | 76.63          | 77,63          | 1.00     |        | 5,56 | 0.66 | 10.10 | 10.62 | 10.69          | 0.39  | 0,41    | 0,41          |         |         | •       |          | 1.38     |       |                           |        |                       |                 |                      |                                         |                        |
| •        | 4       | 18     | 77,63          | 78.25          | 0.62     |        | 4,19 | 0,51 | 16.73 | 17.37 | 17.46          | 0.38  | 0.39    | 0.39          |         |         |         |          | 1,46     | ε.    |                           |        |                       |                 |                      |                                         |                        |
|          | Flr/Rf  | 19     | 78.25          | 78.88          | 0.63     |        | 8.80 | 0.50 | 74.88 | 81.70 | 82.11          | 1.33  | 1.45    | 1.46          | 1,05    | 0.04    | 0.37    |          | 2.45     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 3U      | 20     | 78.88          | 79.74          | 0.86     |        | 4.85 | 0.45 | 10,77 | 11.27 | 11.32          | 2.09  | 2.19    | 2.20          | 1,15    | 0.14    | 0,91    |          | 1.39     |       |                           |        |                       |                 |                      |                                         |                        |
|          | 3L      | 21     | 80.54          | 81.40          | 0,86     |        | 3.99 | 0.37 | 17,94 | 18,62 | 18,69          | 1.21  | 1.26    | •1.26         | 0.78    | 0,13    | 0.35    |          | 1.47     |       |                           |        |                       |                 |                      |                                         |                        |
|          | ?       | 22     | 82,33          | 82,53          | 0,20     |        | 3.69 | 0.42 | 42.56 | 44.00 | 44.19          |       |         |               |         |         |         |          | 1.78     |       |                           |        |                       |                 |                      |                                         |                        |
|          | ?       | 23     | 84,00          | 84,81          | 0,81     |        | 4.25 | 0.46 | 20,08 | 20,87 | 20,97          | 0.30  | 0,31    | 0.31          | 0.03    | 0.01    | 0.27    |          | 1.49     |       |                           |        |                       |                 |                      |                                         |                        |

|          |      |        | DRILLED | INTERVAL | SAMPLE | REJECT | MOIST | TURE |         | ASH   |       | TO          | FAL SÚI       | FUR  | · SU    | LFUR FO | RMS                                    | SPECIFIC        | С       | ale'd %ages by<br>rock volume | Ý    | Calc'd %ag  | es by<br>nsity | Calc'd raw | Calc'd raw | Cale'd S.G. |
|----------|------|--------|---------|----------|--------|--------|-------|------|---------|-------|-------|-------------|---------------|------|---------|---------|----------------------------------------|-----------------|---------|-------------------------------|------|-------------|----------------|------------|------------|-------------|
| HOLE     | SEAM | SAMPLE | From    | To       | THKNES | WEIGHT | %     |      |         | %     |       |             | %             |      |         |         |                                        | CRAVITY         | Enter   |                               |      | IOUX de     |                | est (DD)   | wife (DB)  |             |
| #        |      | #      | (       | m)       | (m)    | (gms)  | A.R.  | A.D. | A.R.    | A.D.  | D.B.  | A.R.        | A.D.          | D.B. |         | A.D     | ······································ | (Meas'd) (Calc' | l) here | 5.66                          | 1.00 | 50m<br>7,83 | 1.00           | asn (DD)   | suur (DB)  | 0.00        |
| T94R-33C | 6U   | 1      | 29.42   | 29.89    | 0.47   |        | 8.29  | 1.02 | 6.58    | 7.10  | 7.17  | 1,06        | 1.14          | 1,15 | Pyritic | Sulfate | Organic                                | 1.:             | 4       |                               |      |             |                |            |            |             |
|          | 6U   | 2      | 29.89   | 30.19    | 0.30   |        | 4.62  | 1.15 | 39,59   | 41,03 | 41.51 | 2.30        | 2,38          | 2.41 |         |         |                                        | 1.1             | 4       |                               | •    |             |                |            |            |             |
|          | 6LB  | 3&4    | 31,38   | 32,33    | 0,95   |        | 6.14  | 1.30 | 11.88   | 12.49 | 12,65 | 2.86        | 3,01          | 3,05 |         |         |                                        | 1,4             | 0       |                               |      |             |                |            |            |             |
|          | 6LA  | 5      | 32.47   | 33.51    | 1,04   |        | 8,04  | 1.09 | 13,91   | 14.96 | 15,12 | 1.35        | 1.45          | 1,47 |         |         |                                        | 1.4             | 3       |                               |      |             |                |            |            | ,           |
|          | 5    | 6      | 33.91   | 35.07    | 1,16   |        | 7,02  | 0,97 | 5.99    | 6,38  | 6,44  | 0.43        | 0.46          | 0.46 |         |         |                                        | 1.:             | 3       |                               |      |             |                |            |            |             |
|          | 5    | 7&8    | 35.07   | 36.08    | 1.01   |        | 6.43  | 1.14 | 12.27   | 12.96 | 13.11 | 0,70        | 0.74          | 0.75 |         |         |                                        | 1.39 . 1.:      | 9       |                               |      |             |                |            |            |             |
|          | 5    | 9      | 36.08   | 37.03    | 0.95   |        | 6,78  | 1.01 | 9.86    | 10.47 | 10,58 | 0.42        | 0.45          | 0.45 |         |         |                                        | 1.:             | 8       |                               |      |             |                |            |            |             |
|          | 5T   | 10     | 39.12   | 39.58    | 0.46   |        | 3,57  | 0.95 | 28,32   | 29.09 | 29.37 | 1.41        | <b>^ 1,45</b> | 1.46 | 0.83    | 0.01    | 0.63                                   | 1.              | 9       |                               |      |             |                |            |            | •           |
|          | 4    | 11     | 41,93   | 42.33    | 0.40   |        | 5.22  | 1.08 | 9,72    | 10.15 | 10.26 | 1.18        | 1.23          | 1,24 |         |         |                                        | 1.:             | 7       |                               |      |             |                |            |            |             |
|          | 4    | 12     | 42,33   | 43.43    | 1,10   |        | 6.66  | 1,18 | 5.20    | 5,51  | 5.58  | 0.53        | 0,56          | 0.57 |         |         |                                        | I.:             | 2       |                               |      |             |                |            |            |             |
|          | 4    | 13     | 43.43   | 43,90    | 0.47   |        | 5.38  | 1.21 | 10.13   | 10.58 | 10.71 | 0.51        | 0.53          | 0,54 |         |         |                                        | 1.:             | 8       |                               |      |             |                |            |            |             |
|          | 3U   | 14     | 49.72   | 50.16    | 0,44   |        | 6,81  | 1.14 | 9.30    | 9.87  | 9,98  | 1.90        | 2.02          | 2.04 |         |         |                                        | 1.:             | 7       | ·                             |      |             |                |            |            |             |
|          | 3U   | 15     | 50.16   | 50.65    | 0.49   |        | 6.01  | 0,84 | 17.59   | 18.56 | 18.72 | 0,95        | 1.00          | 1.01 |         |         |                                        | 1.4             | 7       |                               |      |             |                |            |            |             |
|          | 3L   | 16     | 51,46   | 52,03    | 0.57   |        | 4.59  | 0.98 | 23,15   | 24.02 | 24.26 | 1.48        | 1,54          | 1,56 | 0.73    | 0.02    | 0.81                                   | 1.:             | 3       |                               |      |             |                |            |            | _           |
|          | 2    | 17     | 62,45   | 62.83    | 0,38   |        | 4.66  | 1.32 | 19.02   | 19.69 | 19.95 | 1.09        | 1.13          | 1.15 |         |         |                                        | 1.44 1.4        | 4       |                               |      |             |                |            |            | •           |
|          | 2    | 18     | 62.83   | 63,85    | 1.02   |        | 6.50  | 1.07 | 12.58   | 13,31 | 13.45 | 0.40        | 0.42          | 0,42 |         |         |                                        | L.C. I.         | 1       |                               |      |             |                |            | •          |             |
|          | 2    | 19     | 63.85   | 64.21    | 0.36   |        | 4.75  | 1.23 | 20.32   | 21.07 | 21.33 | 0.33        | 0.34          | 0.34 |         |         |                                        | 1.              | 0       |                               |      |             |                |            |            |             |
|          | 2    | 20     | 64.21   | 65.33    | 1.12   |        | 6.12  | I,40 | 9.36    | 9.83  | 9.97  | 0.37        | 0.39          | 0.40 |         |         |                                        | 1.              | 7       |                               |      |             |                |            |            |             |
|          | 2    | 21     | 65,33   | 65,72    | 0.39   |        | 5.65  | 1.76 | 13,18   | 13.72 | 13.97 | 0.47        | 0.49          | 0.50 |         |         |                                        | <br>1           | 1       |                               |      |             |                |            |            |             |
|          |      |        |         |          |        |        |       |      |         |       |       |             |               |      |         |         |                                        |                 |         |                               |      |             |                |            |            |             |
| T94R-34C |      | 1      | 67.80   | 68.50    | 0.70   |        | 5.63  | 0.55 | 17.84   | 18,78 | 18.88 | 1.22        | 1.28          | 1.29 | 0,56    | 0.05    | 0.67                                   | 1.              | 7       |                               |      |             |                |            |            |             |
|          |      | 2&3    | 74.05   | 74.94    | 0.89   |        | 5,94  | 0,50 | 10.76   | 11.38 | 11.44 | 3,10        | 3,28          | 3,30 | 1.72    | 0.09    | 1.49                                   | 1.              | 9       |                               |      |             |                |            |            |             |
|          |      | 4      | 76.16   | 76,62    | 0,46   |        | 5.36  | 0.71 | 10,92   | 11.46 | 11.54 | 3,72        | 3,90          | 3,93 |         |         |                                        | 1.              | 9       |                               |      |             |                |            |            |             |
|          |      | 5      | 76,62   | 77.42    | 0,80   |        | 5.01  | 0.62 | 12,79   | 13,38 | 13.46 | 1.63        | 1.71          | 1.72 |         |         |                                        | 1.              | 1       |                               |      |             |                |            |            |             |
|          |      | 6      | 77.42   | 78,18    | 0,76   |        | 5.02  | 0.80 | 11.76   | 12.28 | 12,38 | 0.96        | 1.00          | 1.01 |         |         |                                        | <br>1           | 0       |                               |      |             |                |            |            |             |
|          |      | 7      | 78.18   | 78.56    | 0,38   |        | 6,12  | 0.74 | 15.87   | 16,78 | 16,91 | 0.46        | 0.49          | 0.49 |         |         |                                        | 1.              | 5       |                               |      |             |                |            |            |             |
|          |      | 8      | 79.68   | 79.92    | 0.24   |        | 4.07  | 0,53 | 13.59   | 14.09 | 14.17 | 0,51        | 0,53          | 0.53 |         |         |                                        | 1.              | 2       |                               |      |             |                |            |            |             |
|          |      | 9      | 87.23   | 87.92    | 0.69   |        | 5.23  | 0,63 | 26,20   | 27.47 | 27.64 | ر0.51       | 0.53          | 0,53 | 0.10    | 0.01    | 0.42                                   | . 1.            | 7       |                               |      |             |                |            |            |             |
|          |      | 10     | 90,27   | 90.89    | 0.62   |        | 6.33  | 0,58 | 11.89   | 12.62 | 12.69 | 1,86        | 1.97          | 1.98 | 0,93    | 0.02    | 1.04                                   | 1.              | 0       |                               |      |             |                |            |            |             |
|          |      | 11     | 90,89   | 91,35    | 0,46   |        | 6.58  | 0.57 | 82,21   | 87.50 | 88.00 | 1.06        | 1,13          | 1.14 | 0,06`   | 0.01    | 1.07                                   | 2.              | 50      |                               |      |             |                |            |            |             |
|          |      | 12     | 91.35   | 91,97    | 0,62   |        | 7.19  | 0.45 | . 10.99 | 11,79 | 11.84 | 0.19        | 0.20          | 0,20 | 0.11    | 0.08    | 0.01                                   | 1.              | 9       |                               |      |             |                |            |            |             |
|          |      | 13     | 92,50   | 93,20    | 0,70   |        | 6.30  | 0.51 | 32,06   | 34,04 | 34.21 | <b>2.47</b> | 2.62          | 2.63 |         |         |                                        | I.              | 5       |                               |      |             |                |            |            |             |
|          |      | 14     | , 95.22 | 95.78    | 0.56   |        | 7,70  | 0.62 | 13.23   | 14.25 | 14,34 | 1.46        | 1.57          | 1.58 |         |         |                                        | 1.              | 2       |                               |      |             |                |            |            |             |
|          |      | 15     | 95.78   | 95.93    | 0.15   |        | 6,72  | 0.77 | 76.13   | 80,99 | 81,62 | 0.01        | 0.01          | 0.01 |         |         |                                        | 2.              | 4       |                               |      |             |                |            |            | •           |
|          |      | 16     | 95.93   | 96.11    | 0.18   |        | 1.55  | 0,50 | 41.57   | 42.01 | 42.22 | 0.29        | 0.29          | 0.29 |         |         |                                        |                 | 15      |                               |      |             |                |            |            |             |
|          |      | 17     | 97.92   | 99.39    | 1.47   |        | 3.49  | 0,69 | 13.76   | 14.16 | 14,26 | 1,50        | 1.54          | 1.55 | 0.76    | 0.03    | 0.77                                   | 1.<br>t.        | -       |                               |      |             |                |            |            |             |
|          | • .  | 18     | 112,84  | 113.40   | 0.56   |        | 7.96  | 0.53 | 24.91   | 26.92 | 27.06 | 1.17        | 1.26          | 1.27 |         | 0,00    | ••••                                   | 1.              | ~<br>6  |                               |      |             | •              |            |            |             |
|          |      | 19     | 113.40  | 113.93   | 0.53   |        | 8,86  | 0.40 | 37.10   | 40.54 | 40.70 | 0.57        | 0.62          | 0.62 |         |         |                                        | 1.              | h       |                               |      |             |                |            |            |             |
|          |      | 20     | 113.93  | 114.65   | 0.72   |        | 7.92  | 0.45 | 44.60   | 48.22 | 48.44 | 0.18        | 0.20          | 0.20 |         |         |                                        | 1.              | 3       |                               |      |             |                |            |            |             |
|          |      | 21&22  | 114,65  | 115,58   | 0,93   |        | 7.74  | 0.63 | 23.93   | 25.78 | 25.94 | 0.27        | 0.29          | 0.29 |         |         |                                        | 1.              |         |                               |      |             |                |            |            |             |
|          |      |        |         |          |        |        |       |      | 20,70   | 20110 | 44.77 | 0,21        | 0.17          | 0.27 |         |         |                                        | 1.              | 2       |                               |      |             |                |            |            |             |

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|      |             |             |         |        |        |       |      |       |       |          |      |         |      |                         |                   | Cal   | c'd %ages by | ,    | Cale'd %agi | es by | Calc'd raw | Calc'd raw  | Calc'd S.G. |
|------|-------------|-------------|---------|--------|--------|-------|------|-------|-------|----------|------|---------|------|-------------------------|-------------------|-------|--------------|------|-------------|-------|------------|-------------|-------------|
|      |             | DRILLED I   | NTERVAL | SAMPLE | REJECT | MOIST | URE  |       | ASH   |          | TOT  | TAL SUI | FUR  | SULFUR FORMS            | SPECIFIC          |       | rock volume  |      | rock dei    | nsity | composite  | composite   | on scam     |
| HOLE | SEAM SAMPLE | From        | To      | THKNES | WEIGHT | %     | ,    |       | %     | <u> </u> |      | %       |      | %                       | GRAVITY           | Enter | sum          | prop | sum         | prop  | ash (DB)   | sulfur (DB) | composite   |
| #    | #           | (n          | n) .    | (m)    | (gms)  | A.R.  | A.D. | A.R.  | A.D.  | D.B.     | A.R. | , A.D.  | D.B. | A.D,                    | (Meas'd) (Calc'd) | here  | 5.66         | 1.00 | 7,83        | 1.00  |            |             | 0,00        |
|      |             | <del></del> |         |        | ·····  |       |      |       |       |          | <br> |         |      | Pyritic Sulfate Organic | ;                 |       |              |      |             |       |            |             |             |
|      | 23          | 115.58      | 116,08  | 0,50   |        | 7.77  | 0.60 | 36.73 | 39.59 | 39.83    | 0,22 | 0.24    | 0.24 |                         | 1.72              |       |              |      |             |       |            |             |             |
|      | 24          | 116.08      | 116,73  | 0,65   |        | 7.09  | 0.71 | 28.42 | 30.37 | 30,59    | 0,25 | 0.27    | 0.27 |                         | 1.60              |       |              |      |             |       |            |             |             |

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|           |      |              |           |          |        |        |       |      |       |       |       |      |             |      |         |          | Cal      | c'd %ages bj      | y     | Cale'd %ag  | cs by | Cale'd raw | Cale'd raw | Calc'd S.G. |             |           |
|-----------|------|--------------|-----------|----------|--------|--------|-------|------|-------|-------|-------|------|-------------|------|---------|----------|----------|-------------------|-------|-------------|-------|------------|------------|-------------|-------------|-----------|
|           |      |              | DRILLED I | NTERVAL  | SAMPLE | REJECT | MOIST | URE  |       | ASH   |       | TO   | TAL SUL     | FUR  | SU      | LFUR FOI | RMS      | SPECIFIC          |       | rock volume | •     | rock de    | nsity      | composite   | composite   | on seam   |
| HOLE      | SEAM | SAMPLE       | From      | To       | THKNES | WEIGHT | %     |      |       |       |       |      | %           |      |         | <u> </u> |          | GRAVITY           | Enter | sum         | ргор  | sum        | prop       | ash (DB)    | sulfur (DB) | composite |
| H         |      | <del>#</del> | ("        | n)       | (m)    | (gms)  | A.R.  | А.Д. | A.R.  | A.D.  | D.B.  | A.R. | <b>А.D.</b> | D.B. |         | — A.D. — | <u> </u> | (Meas'd) (Cale'd) | here  | 5.66        | 1.00  | 7.83       | 1.00       |             |             | 0.00      |
| T94R-35C  |      | 1            | 36.68     | 37.40    | 0.72   |        | 4.82  | 0.68 | 31.62 | 33.00 | 33.23 | 0.42 | 0.44        | 0.44 | Pyritic | Sultate  | Organic  | 1.64              |       |             |       | •          |            |             |             |           |
|           |      | 2            | 39.50     | 40.07    | 0.57   |        | 5.72  | 0.73 | 24.53 | 25.83 | 26.02 | 0.50 | 0.53        | 0.53 | 0.10    | 0.13     | 0.30     | 1.55              |       |             |       |            |            |             |             |           |
|           |      | 3            | 40.52     | 40.79    | 0.27   |        | 8.99  | 0.58 | 29.38 | 32,09 | 32.28 | 0.29 | 0.32        | 0.32 |         |          |          | 1.62              |       |             |       |            |            |             |             |           |
|           |      | 4&5          | 43.51     | 44.75    | 1.24   |        | 6.13  | 0.70 | 46.14 | 48.81 | 49,15 | 0,22 | 0,23        | 0,23 |         |          |          | 1.84              |       |             |       |            |            |             |             |           |
|           |      | 6            | 44.75     | 44.83    | 0,08   |        | 3.05  | 0.83 | 69.66 | 71.25 | 71.85 | 0.10 | 0,10        | 0.10 |         |          |          | 2.22              |       |             |       |            |            |             |             |           |
|           |      | 7            | 44,83     | 46,63    | · 1,80 |        | 5,93  | 0,63 | 22.36 | 23.62 | 23.77 | 0.28 | 0.30        | 0.30 |         |          |          | 1,53              |       |             |       |            |            |             |             |           |
| •         |      | 8            | 57,96     | 58,69    | 0.73   |        | 6,32  | 0.74 | 39,20 | 41.53 | 41.84 | 0.33 | 0.35        | 0.35 |         |          |          | 1.74              |       |             |       |            |            |             |             | •         |
|           |      | 9            | 58,69     | 59.05    | 0.36   |        | 6.84  | 0,59 | 24,68 | 26,34 | 26,50 | 0,48 | 0.51        | 0.51 |         |          |          | 1.56              |       |             |       |            |            |             |             |           |
|           |      | 10&11        | 61.89     | 62,24    | 0.35   |        | 4.97  | 0.66 | 35,41 | 37,02 | 37,27 | 0,35 | 0,37        | 0,37 |         |          |          | 1.68              |       |             |       |            |            |             |             |           |
|           |      | 12           | 62.24     | 62.85    | 0.61   |        | 5.90  | 0.74 | 28.61 | 30,18 | 30.40 | 0.38 | 0.40        | 0,40 |         |          |          | 1.60              |       |             |       |            |            |             |             |           |
|           |      | 13           | 62.85     | 63.08    | 0.23   |        | 5.75  | 0.61 | 26.41 | 27,85 | 28.02 | 0.83 | 0.87        | 0,88 |         |          |          | 1.57              |       |             |       |            |            |             |             |           |
|           |      | 14           | 63.82     | 64.43    | 0,61   |        | 3.40  | 0.74 | 51.98 | 53.41 | 53.81 | 0.25 | 0.26        | 0.26 |         |          |          | 1.75 1.75         |       |             |       |            |            |             |             |           |
|           | 17   | 15           | 75.46     | 77,53    | 2.07   |        | 5,63  | 0.74 | 32.82 | 34.52 | 34.78 | 0.30 | 0.32        | 0.32 |         |          |          | . 1.65            |       |             | •     |            |            |             |             |           |
|           | 17   | 16           | 77,53     | 78,18    | 0.65   |        | 4.93  | 0.58 | 32,46 | 33,95 | 34.15 | 0,37 | 0.39        | 0,39 |         |          |          | 1.65              |       |             |       |            |            |             |             |           |
|           | 1La? | 17           | 81.74     | 82.10    | 0.36   |        | 5.02  | 0.70 | 37.76 | 39.48 | 39.76 | 0.29 | 0,30        | 0,30 |         |          |          | 1.72              |       |             |       |            |            |             |             |           |
|           | 1La? | 18&19        | 82,10     | 82.30    | 0.20   |        | 2.77  | 0.70 | 68.80 | 70,26 | 70,76 | 0,16 | 0,16        | 0.16 |         |          |          | 2,20              |       |             |       |            |            |             |             |           |
|           | 1Lb? | 20           | 83.52     | 83,98    | 0,46   |        | 5,20  | 0.87 | 43.86 | 45.86 | 46.26 | 0.87 | 0.91        | 0.92 | 0.54    | 0,21     | 0,16     | 1.80              |       |             |       |            |            |             |             |           |
| T04P 460  |      | ,            | 133 51    | . 134.02 | 0.51   |        | 3 84  | 1 10 | 31 64 | 32 51 | 27.00 | 2 83 | 2.01        | 2.95 | 1.40    | 0.02     | 1.44     | 1.60 1.60         |       |             |       |            |            |             |             |           |
| 17410-000 |      | ,<br>,       | 165 78    | 166.83   | 1.05   |        | 4 83  | 0.04 | 16.86 | 17 55 | 17 77 | 1 03 | 2.01        | 2.03 | 1.42    | 0,02     | ****     | 1.00              |       |             |       |            |            |             |             |           |
|           |      | 3&4          | 166.83    | 167.58   | 0.75   |        | 5.98  | 0.78 | 14.93 | 15.76 | 15.88 | 3.81 | 4 02        | 4.05 |         |          |          | 1.40              |       |             |       |            |            |             |             |           |
|           |      | 5            | 167.58    | 168.08   | 0.50   |        | 3.53  | 0.98 | 28.55 | 29.31 | 29.60 | 3.45 | 3.54        | 3.58 |         |          |          | 1.59              |       |             |       |            |            |             |             |           |
| •         |      | 6            | 168.08    | 168.28   | 0.20   |        | 3.79  | 1.40 | 79.28 | 81.25 | 82.40 | 0.17 | 0.17        | 0.17 |         |          |          | 2.44              |       |             |       | •          |            |             |             |           |
|           |      | 7            | 168.28    | 168.75   | 0.47   |        | 4.05  | 0.84 | 21.42 | 22.14 | 22.33 | 1.56 | 1.61        | 1.62 |         |          |          | 1.51              |       |             |       |            |            |             |             |           |
|           |      | 8            | 169.22    | 169.87   | 0.65   |        | 4.57  | 0.96 | 18.93 | 19.65 | 19.84 | 1.82 | 1.89        | 1.91 | 0.96    | 0.01     | 0.94     | 1.48              |       |             |       |            |            |             |             |           |
|           |      | 9            | 170.45    | 171.08   | 0.63   | ,      | 3,81  | 0.93 | 26.79 | 27.59 | 27.85 | 2.51 | 2.59        | 2.61 |         |          |          | 1.57              |       |             |       |            |            |             |             |           |
|           |      | -10          | 171.08    | 171.30   | 0.22   | •      | 4,27  | 0.92 | 57,63 | 59.64 | 60.19 | 0,19 | 0.20        | 0.20 |         |          |          | 2.01              |       |             |       |            |            |             |             |           |
|           |      | 11           | 171.30    | 171.42   | 0.12   |        | 2.54  | 0.82 | 81.31 | 82,75 | 83.43 | 0,03 | 0.03        | 0.03 |         |          |          | 2.48              |       |             |       |            |            |             |             |           |
|           |      | 12           | 171,42    | 171.94   | 0,52   |        | 3.46  | 1.01 | 43,12 | 44,22 | 44,67 | 0,25 | 0,26        | 0,26 |         |          |          | 1.78              |       |             |       |            |            |             |             |           |
|           |      |              |           |          |        |        |       |      |       |       |       |      |             |      |         |          |          |                   |       |             |       |            |            |             |             |           |

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# SUMMARY REPORT - 1993 Telkwa Coalfield

| PROPERTV NAME                                       | Telkwa Pronerty                | NTS                                                        | 93   /11                        |                                                 |
|-----------------------------------------------------|--------------------------------|------------------------------------------------------------|---------------------------------|-------------------------------------------------|
| OWNER.                                              | Manalta Coal Limited           | Calgary Alberta 700                                        | - 9th Avenue S.W T2P 3V         | <u>۲</u> ۵                                      |
| OPERATOR.                                           | Manalta Coal Limited           | , Oalgary, Alborta 100                                     |                                 | <del></del>                                     |
| LICENCE NO                                          | 4260-62 4264-65 426            | 7 4269-72 4274-83 530                                      | 5-07 3709-10 3875-84 7691-      | 96 8208-11                                      |
|                                                     | 6040 5830 8422-20 8            | 3402-03 8442                                               |                                 | 00,0200 11,                                     |
| I OCATION OF WORL                                   | <u>. 0040,0003,0422-20,0</u>   | 6045000/611500 to                                          | 6056000/628500                  |                                                 |
| WORK DEDIOD.                                        | $\Omega_{n-property: Aug. 24}$ | to Oct 21 1993 Off-r                                       | roperty: Jan 1 to Dec 31 1      | 003                                             |
| WORK FERIOD.                                        | On-property. Aug. 24           | 10 Oct. 21, 1990. Oli-p                                    | Toperty. Vall. 1, to Dec. 01, 1 |                                                 |
|                                                     |                                |                                                            |                                 | •                                               |
| CATEGORY OF WOR                                     | К                              | Dimensions                                                 | Unit Cost                       | Cost                                            |
|                                                     |                                |                                                            |                                 |                                                 |
| Geological mapping                                  |                                |                                                            |                                 | •                                               |
| Reconnaissance                                      |                                | nil -                                                      | •                               | \$0.00                                          |
| Detail -                                            |                                | ·                                                          |                                 |                                                 |
| Surface                                             |                                | nil                                                        |                                 | \$0.00                                          |
| Underground                                         |                                | nil                                                        |                                 | \$0.00                                          |
| Other                                               |                                | nil                                                        | ·                               | \$0.00                                          |
| 0 4192                                              |                                |                                                            |                                 |                                                 |
| Geophysical Surveys                                 |                                |                                                            |                                 |                                                 |
| Method 1. Ground                                    | Geophysical Survey             | 20.0 line kms.                                             |                                 | \$9,750.00                                      |
| •                                                   | on lic. #s. 8210, 8211         | 4276 & 4277                                                |                                 |                                                 |
| Terrain                                             | Conductivity Survey            | <u>,                                     </u>              |                                 |                                                 |
| Direct C                                            | urrent Resistivity Sounding    | 5                                                          |                                 |                                                 |
| Seismic                                             | Refraction Survey              | -                                                          |                                 |                                                 |
| Very Lo                                             | w Frequency EM (VLF) Sur       | vev                                                        |                                 |                                                 |
| Magneto                                             | ometer survey                  |                                                            |                                 |                                                 |
|                                                     |                                |                                                            |                                 |                                                 |
| <b>Road Construction</b>                            |                                | ``````````````````````````````````````                     |                                 |                                                 |
| On licence nos.                                     | 11.0 kms. on #s 4278           | 3, 4279, 8210, 8211, 42 <sup>°</sup>                       | <u>76, 4277, 6040, 3</u> 876,   | \$129,300.00                                    |
|                                                     | 4269, 4270, 3709,              | 4267, 3875, 3882, 5839                                     | <u>&amp; 8427.</u>              | •                                               |
| Access to                                           | • • • • • •                    | nil                                                        |                                 | \$0.00                                          |
|                                                     |                                | · ·                                                        |                                 |                                                 |
| Surface work                                        |                                |                                                            |                                 |                                                 |
| Geotechnical drill-holes                            | s (till sampling) 9 h          | o <u>les; 67.5 m</u> etres                                 |                                 | \$8,000.00                                      |
| Seam tracing                                        |                                | nil                                                        |                                 | \$0.00                                          |
| Cross-cutting                                       |                                | nil                                                        |                                 | \$0.00                                          |
| Other                                               |                                | nil                                                        | ·                               | \$0.00                                          |
|                                                     |                                |                                                            |                                 |                                                 |
| Underground work                                    | K                              |                                                            |                                 |                                                 |
| Test adits                                          |                                |                                                            |                                 |                                                 |
| Other weathin an                                    |                                |                                                            |                                 | \$0.00                                          |
| Ouler workings                                      |                                |                                                            |                                 | \$0.00<br>\$0.00                                |
| Ouler workings                                      |                                | nil                                                        |                                 | \$0.00<br>\$0.00                                |
| Drilling                                            |                                | nii                                                        | <br>                            | \$0.00<br>\$0.00                                |
| Drilling<br>Core-                                   |                                |                                                            |                                 | \$0.00                                          |
| Drilling<br>Core-<br>Diamond                        | 11 holes;                      | <u>nil</u><br>1461.5 meters                                | · · · ·                         | \$0.00<br>\$0.00<br>\$128,000.00                |
| Drilling<br>Core-<br>Diamond<br>Wire-line           | 11 holes;<br>10 holes;         | <u>nil</u><br>1461.5 meters<br>612.0 meters                | · · · · ·                       | \$0.00<br>\$0.00<br>\$128,000.00<br>\$66,000.00 |
| Drilling<br>Core-<br>Diamond<br>Wire-line<br>Rotary | 11 holes;<br>10 holes;         | <u>nii</u><br><u>1461.5 meters</u><br><u>612.0 met</u> ers |                                 | \$0.00<br>\$0.00<br>\$128,000.00<br>\$66,000.00 |

| Drilling con't.                     |             |                     |                 |                 |                     |                  |                      |
|-------------------------------------|-------------|---------------------|-----------------|-----------------|---------------------|------------------|----------------------|
| <b>Reverse Circulation</b>          |             |                     | nil             |                 |                     | ۰.               | \$0.00               |
| Water truck                         |             |                     |                 |                 |                     |                  | \$28,600.00          |
| Contractors                         | J.T. Thoma  | as Diamono          | i Drilling, Cor | a Lynn Drilling | Co. & McAu          | Ilev Drillina C  | o. Ltd.              |
| Core storage                        | Core that y | vas retained        | d is currently  | beina stored v  | ,<br>vithin Manalta | a's on-site cor  | eshack.              |
| B+                                  |             |                     | j               |                 |                     |                  |                      |
| Ceophysical Logging                 | Ail holes w | ere geophy          | sically longer  | 4               |                     |                  | \$48 000 00          |
| Contractora                         | BPR Geon    | bysical Loo         | aina Co         | <u> </u>        |                     |                  | 410,000.00           |
| Contractors                         | DI D Gcop   | nysical Log         | ging ou.        |                 | 1                   |                  | <del> </del>         |
| Compling                            |             |                     |                 |                 |                     | •                |                      |
| Sampung<br>Daala Gamalian far A D I |             | 6 holoo             | 211 complex     |                 |                     |                  | •                    |
| Rock Sampling for A.K.I             | J.          | o noies,            |                 |                 |                     |                  | ·······              |
| Coal ply samples                    |             | ta noies,           | 304 samples     | 5               | •                   | - · <del>.</del> |                      |
|                                     |             | •                   | •               |                 |                     |                  |                      |
| Testing                             |             |                     |                 |                 |                     |                  | <b>*</b> ~~ ~~ ~~ ~~ |
| A.R.D. Samples                      |             |                     |                 |                 |                     | - · _            | \$20,000.00          |
| Coal Samples                        |             | <u> </u>            |                 |                 |                     |                  | \$35,000.00          |
| •                                   |             |                     |                 |                 |                     |                  |                      |
| Other work                          |             |                     | <u>nil</u>      |                 |                     |                  | \$0.00               |
| -                                   |             |                     |                 | •               | •                   |                  | •                    |
| <b>Reclamation work</b>             |             |                     |                 |                 |                     | _                | \$26,700.00          |
|                                     |             |                     |                 |                 |                     |                  | -                    |
|                                     |             |                     |                 |                 |                     |                  |                      |
|                                     |             |                     |                 |                 |                     |                  |                      |
| ON-PROPERTY COST                    | S:          | \$536.250           | .00             |                 |                     | •                |                      |
| OFF-PROPERTY COS                    | TS:         | \$55,000            | .00             |                 |                     |                  |                      |
|                                     |             |                     |                 |                 | •                   | •                |                      |
| TOTAL EXPENDIT                      | IIPES.      | \$591 250           | 00              |                 |                     |                  |                      |
|                                     |             | <del>,001,200</del> |                 |                 |                     |                  | •                    |
|                                     |             |                     | •               |                 | $\frown$            |                  |                      |
|                                     | 28/4/4004   |                     |                 | A Q.            | Landa               |                  |                      |
|                                     | 201411994   |                     |                 |                 |                     |                  |                      |

(Date)

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AL\4/29/94

Angelo Ledda, Project Geologist

# SUMMARY REPORT - 1994 Telkwa Coalfield

AL\1/20/95
File name:SMRYRPRT,XLS

| Drilling con <sup>1</sup> t.                           | ,                                                                                    |                                 |                                        |
|--------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------|----------------------------------------|
| <b>Reverse</b> Circulation                             | nil                                                                                  |                                 | \$0.00                                 |
| Water truck                                            | · · · · · · · · · · · · · · · · · · ·                                                |                                 | \$31,285,00                            |
| Contractors                                            | Cora Lynn Drilling Co. & McAuley Drilling Co. Ltd.                                   |                                 |                                        |
| Core storage                                           | Core that was retained is currently being stored within Manalta's on-site coreshack. |                                 |                                        |
| Geophysical Logging<br>Contractors                     | All holes completed w/in sedi<br>Century Geophysical Corpora                         | d. <u>\$42,000.00</u>           |                                        |
| Sampling                                               |                                                                                      | <u>_</u>                        | ······································ |
| Rock Sampling for A.R                                  | .D. 2 holes & outcrop                                                                | sampling; 123 samples           |                                        |
| Coal ply samples                                       | 8 holes;                                                                             | 149 samples                     |                                        |
| Testing<br>A.R.D. Samples<br>Coal Samples              | Chemex Labs Ltd., Vancouve<br>Loring Laboratories Ltd., Calg                         | er, B.C.<br>gary, AB            | \$18,987.05<br>\$30,300.00             |
| Other exploration costs                                | · · · · · · · · · · · · · · · · · · ·                                                | ·                               | \$74,872.00                            |
| Reclamation work                                       |                                                                                      | <u></u>                         | \$5,500.00                             |
| ON-PROPERTY COST<br>OFF-PROPERTY COS<br>TOTAL EXPENDIT | TS: <u>\$578,075 .00</u><br>STS: <u>\$49,287 .00</u><br>TURES: <u>\$627,362 .00</u>  | <br>                            |                                        |
| ,                                                      | January 16, 1995<br>(Date)                                                           | Angelo Ledda, Project Geologist | · .                                    |