

TELKWA PROJECT
GEOLOGICAL ASSESSMENT REPORT

TEXT
1984

~~CONFIDENTIAL~~

OPEN FILE.

00240
part 4

TELKWA PROJECT
GEOLOGICAL ASSESSMENT REPORT

NTS Map Sheet
Lat./Long.
Land District

93L/11
54° 35' / 127° 8'
Coast Range 5

Coal Licences

Group 368	4272, 4283 4226 - 4281 5305 - 5307 7695, 7696 6040, 4274
Group 366	3878 - 3881 4269 - 4271 7690 - 7694 3710, 4275 3884
Group 367	3875 - 3877 4260 - 4262 4264 - 4265 3882, 3883 3709, 3885 4267, 4282 5839

Licences held by: Shell Canada Resources Limited

Operated by: Crows Nest Resources Limited

Exploration Period: May - September 1984

Report Date: March 1985

Project Members: Dave Handy - Project Geologist
Steve Cameron - Geologist
Pat Hickey - Geological Technologist
Jim Eisenman - Geological Technologist
Robert Aiello - Field Coordinator



March 25, 1985

Ministry of Energy, Mines & Petroleum Resources
617 Government Street
Victoria, B.C.
V8V 1X4

Attention: Mr. P. Hagen
Coal Administrator

Dear Sir:

Enclosed please find our report on the Telkwa Project.

This report has been prepared by Mr. D. Handy and Mr. S. Cameron, both of whom are employed by Crows Nest Resources Limited as geologists.

Mr. D. Handy, Honours B.Sc., graduated in Geology from the University of Waterloo in 1977. Prior to his graduation, Mr. Handy worked as an assistant for two geotechnical companies and after graduation as a geologist for a major company in Saskatchewan. Mr. Handy has been employed by Crows Nest Resources Limited as a Project Geologist since 1979.

Mr. S. Cameron, B.Sc., in Geology graduated from the University of Calgary in 1981. Prior to graduation, Mr. Cameron worked as an assistant for a major exploration company in the North West Territories. He also worked for Crows Nest Resources Limited as a geological assistant in 1980. Mr. Cameron has been employed by Crows Nest Resources Limited as a Geologist since May 1981.

In my opinion, all of these personnel are fully qualified, by training and experience to prepare this report and this account of work done under their direct supervision.

Yours very truly

A handwritten signature in black ink, appearing to read "H.G. Rushton", is written over a horizontal line.

H.G. Rushton
Vice President - Development

Enclosure

TELKWA PROJECT
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Volume 2

- Appendix 11 DOWNHOLE GEOPHYSICAL LOGS
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these can be found in report 359

1.0 SUMMARY

The Telkwa Project is contained within 38 B.C. Coal Licences covering 9713 hectares and 5 Freehold Lots covering 1295 hectares. Shell Canada Resources Limited holds 25 Licences and 3 Freehold Lots with the remaining under option agreements. Crows Nest Resources Limited, which is a wholly owned subsidiary of SCRL is the operator of the project.

The Telkwa licences are in close proximity to the Canadian National Railway and are 360 km by road east of the port of Prince Rupert. Existing infrastructure, the proximity of a coal handling port (Ridley Island) and the good quality of the coal make Telkwa an attractive project.

Early Cretaceous sedimentary rocks of the Skeena Group contain significant thicknesses (single seams up to 7.6 metres, aggregate seam thicknesses of up to 30 metres) of low ash, medium to high volatile bituminous coal amenable to thermal use.

Lack of outcrop exposure has necessitated that CNRL undertake an intensive drilling program since 1979 to delineate the deposit. Stratigraphic and structural interpretation of the Telkwa deposit is based largely on drill core data accompanied by a comprehensive suite of downhole geophysical logs.

In 1984 a summer drilling program was commissioned which included the construction of 2.4 km of access road and forty-four HQ diamond drill holes. The purpose of the program was to further delineate the Goathorn East and Telkwa North areas of the deposit and to verify structural and stratigraphic interpretations made on the basis of 1983 and previous exploration programs. In the Goathorn East area drilling was concentrated toward the north to delineate low ratio reserves of #1 seam.

The total field expenditure for 1984 was \$1,077,408. Of this total \$800,067.30 is being applied to the licences covered by this report. The remainder was spent on Freehold land under option by Shell Canada Resources Limited.

2.0 INTRODUCTION

2.1 Location and Access

Enclosure 1 - 1: Index Map

Enclosure 1 - 2: Access Map

The Telkwa Project is located 15 km south of the town of Smithers in West Central British Columbia; Coast Land District 5, NTS Map Sheet 93L/11. The coal licences are north of the Telkwa River and east of Pine Creek and south of the Telkwa River along Goathorn Creek and Cabinet Creek. The center of the licence block is situated at Lat. 54°35'N, Long. 127° 8'W. Smithers is 360 km from the port of Prince Rupert along the CNR line and Highway 16. The Telkwa Project is 10 km from this rail line and accessible by good gravel road.

2.2 Tenure

The Telkwa Project licences are subdivided into three groups: Telkwa North, Telkwa South and Bulkley Valley Coal Limited Option. Such a subdivision is necessary for land tenure purposes.

<u>GROUP NUMBER</u>	<u>LICENCE NUMBERS</u>
366	3878 - 3881, 4269 - 4271 7690 - 7694, 3710, 3884, 4275
367	3785 - 3877, 4260 - 4262, 4264, 4265 3882, 3883, 3709, 3885, 4267, 4282, 5839
368	4276 - 4281, 5305 - 5307, 7695, 7696 4272, 4274, 4283, 6040

All licences are operated by Crows Nest Resources Limited. All licences are held by Shell Canada Resources Limited with the exception of those optioned from Bulkley Valley Coal Limited

In addition, Shell Canada Resources Limited owns 3 freehold lots and options 2 lots (Whalen Option) which are also included as part of the Telkwa Project.

Appendix 1 of this report contains a "Coal Land Disposition Map". Appendix 2 contains a tabulation of "B.C. Coal Land Tenure Standing" for each group of licences being renewed.

3.0 REGIONAL GEOLOGY

Mesozoic successor basins developed in the Intermontane Belt between the Columbian and Pacific Orogens in the B.C. Cordillera. These deeply subsiding troughs usually had both marine and continental depositional environments. Coal bearing clastic sequences often accumulated in areas of dip-slip and strike-slip faulting in the troughs.

The Skeena Group successor basin is filled with interbedded marine and non-marine sedimentary and volcanic strata. This assemblage was deposited on the folded and faulted terrane of the Bowser Lake Group and older groups such as the Hazelton. Sediments of the Skeena Group are distinguishable from the Bowser Lake and Hazelton Sediments by the presence of fine grained detrital muscovite. "In the Late Jurassic to Early Cretaceous, prior to deposition of the Skeena Group sediments, the Hazelton Group underwent a period of uplift, deformation and erosion. During the mid Early Cretaceous, the sea readvanced from the west, in the area of Skeena Valley, inundating the non-marine, late Lower Cretaceous coal basins such as Telkwa and Lake Kathlyn. The sediments of the Skeena Group were derived from an uplifted Pinchi-belt - Columbian Orogen. They were deposited in a southwesterly direction, across the Skeena Arch, which apparently had little influence on the shape of the basin receiving the Skeena clastics".¹

¹ Tipper H.W. and Richards T.A, Jurassic Stratigraphy and History of North Central British Columbia, 1976, page 7.

Tipper and Richards (1976) have taken Sutherland Brown's (1960) subdivision from the Hazelton Group and applied it to the Skeena Group as follows: The Brian Boru Formation for the Early Cretaceous volcanics and the Red Rose Formation for the Late Jurassic to Early Cretaceous sediments.

4.0 TELKWA GEOLOGY

4.1 Stratigraphy

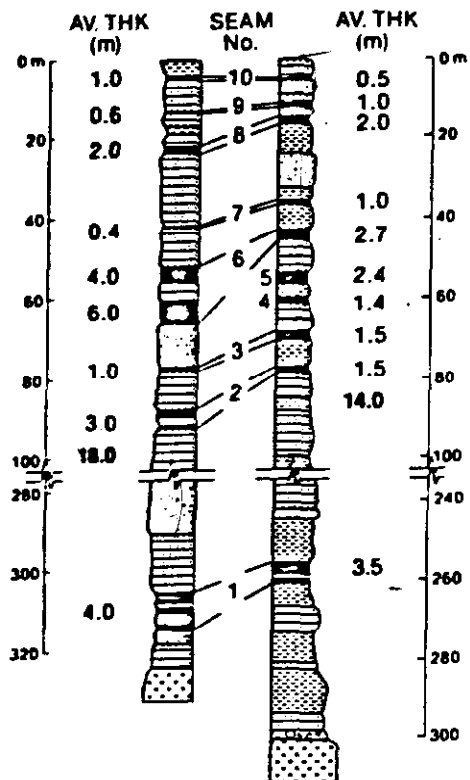
Figure 1: Telkwa Type Stratigraphic Section

The rocks of the Telkwa coal field consist of interbedded marine and non-marine sedimentary and volcanic strata of the Skeena Group. The sediments include a predominance of mudstone and siltstone with minor sandstone and shale, a basal conglomerate and coal. Volcanics are grey to green basaltic to rhyolitic breccias, tuffs and flows. The Hazelton volcanics are usually weathered to a deep reddish-purple at their contact with the overlying Skeena sediments. Porphyritic Tertiary intrusive rocks in the form of dykes and sills have been found over the property. A large rhyolite plug has intruded the Skeena sediments north of the Telkwa River. In the Telkwa area recent erosion has removed the coal-bearing sediments from the higher ridges leaving all or part of the sedimentary sequence preserved in topographic lows. Outcrops are usually found in stream valleys which have cut through the glacial drift cover. Few exposures occur away from the creeks until the higher ridges are reached and invariably these are volcanics of the Hazelton Group. The Skeena-Hazelton contact over most of the area is drift covered and heavily timbered making accurate delineation of the areal extent of the coal bearing sediments very difficult.

STRATIGRAPHIC SECTION

WEST GOATHORN

EAST GOATHORN



SKEENA GROUP

LOWER CRETACEOUS

- Coal
- Shale
- Siltstone
- Mudstone/Claystone
- Sandstone
- Conglomerate

HAZELTON GROUP

LOWER MIDDLE JURASSIC

- Igneous

The Skeena Group stratigraphic section varies in thickness over the Telkwa area but probably does not exceed 500 metres. Laterally, individual beds often pinch out over short distances.

A palynological study on two drill cores representing the Telkwa stratigraphic section indicates clastic deposition started in Neocomian times in a marine depositional environment. A marine regression occurred resulting in a fluvial flood plain environment with the deposition of Seam #1 or the #1 coal zone. The study indicates the rocks between Seam #1 and the upper coal zone were deposited in mainly a shallow, low energy marine environment with occasional regression/transgression cycles.

The lower members of the upper coal zone, from Seam #2 to #7, are believed to have been deposited in a deltaic environment supporting swamp and/or marsh vegetation.

The upper three seams, #8, #9 and #10 appear to have been deposited in a coastal region periodically subjected to tidal incursions. Above Seam #10 the study shows an upland depositional environment in a fluvial regime indicating a major marine regression near the end of the Lower Cretaceous in the Telkwa area.

The Skeena sediments in the Telkwa area exhibit numerous soft sediment deformation structures including rip up clasts, micro slump faults and load casts. Heavily bioturbated zones are common. Thin bentonitic clay layers (1 to 5 cm thick) are present at certain locations in several of the coal horizons. X-ray defraction indicates most of these clays to be kaolinitic in composition and not mixed layer "swelling clays".

4.2 Coal Stratigraphy

At least 14 individual coal seams exist in the Telkwa deposit.

Within the Goathorn Creek area 10 major correlatable seams are identified. These are numbered 1 to 10 going stratigraphically up section. Average aggregate thickness of the upper 9 seams at Goathorn East (east of Goathorn Creek) is 14 metres. The upper 9 seams usually range from a thickness of 0.5 to 2.5 metres. West of Goathorn Creek individual coal intersections of up to 7.6 metres have been drilled. Seams #4 and #5 pinch out laterally in the Goathorn East area and are not present at Goathorn West. The remaining seven seams thicken westward and average an aggregate thickness of 18 metres at Goathorn West. A distinct marker horizon occurs beneath Seam #2 on the gamma ray logs.

This geophysical signature has been used as a datum line for seam correlation over the entire property. Seam #1 is situated some 100 to 150 metres below the gamma marker and averages 5.0 m in thickness. Over the property individual coal seams develop splits, their thickness changes over short lateral distances, and the seams exhibit an extremely variable nature. These inconsistencies will require a very flexible approach to mining.

4.3 Structure

In the areas east of Goathorn Creek north-south trending normal and reverse faults have divided the property into several structural blocks. Smaller faults are common within the structural blocks. These faults have been interpreted from drilling data and air photo interpreted lineaments. The faults often occur as zones with imbricates and splays. Most of the faults are believed to be high angle (i.e. dips greater than 75°). Although some of the faults originate in basement volcanics it is believed that structural complexity increases up section. Over the Goathorn East area the beds strike from 345° to 75° and dip to the east within a 10° to 35° range. Due to an uplifted block in the area of the power line east of Goathorn Creek, there are surface mineable reserves of #1 seam in this area.

Structurally the west side of Goathorn Creek is more complicated. Rotational normal faults of various orientations are common. Generally the strata in this area dip to the south west in the 10° to 30° range. No drilling was done in this area in 1984.

North of the Telkwa river the area of interest is defined by two structural blocks separated by a west dipping normal fault. The coal measures are bordered on the north by an intrusive plug. The west block dips to the northeast at approximately 20°. The east block dips to the east at 17°. The geology north of the Telkwa river has not been as well delineated as that in the Goathorn Creek area.

5.0 SUMMARY OF PREVIOUS WORK

1979 - 1:10000 scale geological mapping

- bulldozer trenching
- road upgrading
- rotary drilling (4 holes)
- coal sampled and analyzed
- drill site reclamation

1980 - no exploration

1981 - 1:10000 scale geological mapping

- 1:5000 scale geological mapping
- road upgrading
- bulldozer trenching
- rotary drilling (7 holes)
- diamond drilling (1 hole)
- coal sampled and analyzed
- drill site reclamation
- topographic survey
- geophysical survey - EM37
- 1:5000 scale topographical maps constructed

5.0 SUMMARY OF PREVIOUS WORK (cont.)

1982 - 1:5000 scale geological mapping

- backhoe trenching
- road construction and upgrading
- rotary drilling
- diamond drilling
- coal sampled and analyzed
- geophysical surveys - EM37
 - seismic refraction
 - proton magnetometer
- geotechnical studies - piezometer installation
 - soil sampling
 - core logging
- 1:5000 scale topographical maps constructed
- 1:1000 scale topographical maps constructed
- 1:2000 scale topographical maps constructed
- road and drill site reclamation

5.0 SUMMARY OF PREVIOUS WORK (cont.)

- 1983 - 1:1000 scale geological mapping (test pit)
- road construction
 - diamond drilling-NQ and 6 inch diameter
 - coal sampled and analyzed
 - seismic refraction survey
 - geotechnical studies - piezometer installation
 - core logging
 - test pit excavated
 - 219 tonnes of coal bulk sampled from seven seams
 - road and drill site reclamation
 - test pit reclamation

6.0 WORK DONE IN 1984

- road construction
- diamond drilling
- coal sampled and analyzed
- piezometer installation
- road and drill site reclamation

44 NQ diamond drill holes were completed on the property during 1984 for a total of 4,911 meters. Thirty three of the drill holes are situated on licences covered by this report. The remaining holes are on freehold lots. All drill core has been lithologically logged (Appendix I) CNRL's drill core storage facility is located at the site of Bulkley Valley Collieries Ltd.

All pertinent drill holes were surveyed. (Appendix 6)

Three piezometers were installed in three holes east of Goathorn Creek.

All disturbances, including roads and drill sites were seeded.

All coal core samples were analyzed. In addition washability studies were done on the bulk samples taken from the 1983 test pit (Appendix 7)

Klohn Leonoff was commissioned to do a geotechnical study of the proposed mining area. (Appendix 8)

Water Quality analyses has been done periodically on samples from 12 stations. (Appendix 9)

Acid-base accounting was done by Sturn Environmental Services Inc. on interburden samples from drill holes 409, 411, 412, 418 and 438. (Appendix 10)

The total cost of the 1984 exploration program was \$1,079,908 Of this, \$802,567.30 is being applied to the licences reported herein.

Appendix 3 contains a copy of the Application to Extend Term of Licence which gives a detailed account of the amount and nature of expenditures applied to the three licence groups.

7.0 MINEABILITY AND RESERVES

7.1 Goathorn Creek Area

The Goathorn Creek area of the Telkwa Project is the most attractive location for open pit mineable coal. Seams #2 to #10 generally maintain thicknesses of 0.5 meters or greater and total 12 to 18 meters of aggregate coal thickness in 85 to 100 meters of stratigraphic section. Seam #1 zone averages 5.0m in thickness over the property and is mineable from surface at the north end of the Goathorn East area. The seam often develops two major splits in this area. Glaciation and erosion have resulted in the loss of much of the coal in the Goathorn West area, which has reduced much of this area's mining potential.

Six open pits have been delineated in the Goathorn Creek area with three in Goathorn East and three in Goathorn West (see Geology Map). Pits #1, #2, and #4 contain only #1 seam. Pit three contains seams #2 through #10. Pits #4, 5 and 6 contains seams #2, 3, 6, 7, 8, 9 and 10. Previous underground mining has reduced the mining potential of Pit #4. Coal reserves in each of the pits have been calculated by multiplying cross section areas by a lateral distance of influence for each section using an S.G. of 1.5. The methodology for determining pit limits as well as the detailed reserve calculations will be submitted with the Work Systems approval and Stage II Submission.

Goathorn Area Coal Reserves

	<u>Coal (mt)</u>	<u>Waste (X10⁶ m³)</u>
	Raw - r.o.m.	
Pit #1	.68	5.05
Pit #2	2.36	20.62
Pit #3	16.26	108.34
Pit #4	.57	3.14
Pit #5	.28	1.64
Pit #6	<u>1.61</u>	<u>10.26</u>
	21.76	149.05

There are additional in situ coal resources of at least 15 million tonnes in the Goathorn Creek area, which lie outside the currently defined pit limits.

7.2 TELKWA NORTH

Reserve calculations for the area north of the Telkwa River have not been completed at the time of writing of this report. This work will be completed by the spring of 1985.

8.0 COAL QUALITY

Coal core samples were obtained from 44 NQ3 diamond drill holes.

The Telkwa coal is ranked as High Volatile A Bituminous by ASTM standards. Analytical results from core data show it to be a prime thermal coal product. Seam by seam mass weighted averages are given in Tables 1 and 2. Incremental results for each hole can be found in Appendix 5.

10.0 REFERENCES

- Dowling, D.B., 1915: Coal Fields of British Columbia, Canada Dept. of Mines, No. 57, Geological Series, pp. 167-189.
- Eisbacher, G.H., 1974: Evolution of Successor Basins in the Canadian Cordillera, Society of Economic Paleontologists and Mineralogists, Special Publication 19.
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- Long, D.G.F., 1981: Dextral Strike Slip Faults in the Canadian Cordillera and Depositional Environments of Related Fresh-Water Intermontane Coal Basins, Geol. Assoc. Canada, Special Paper #23.
- Richards, T.A. and Gilchrist, R.D., 1979: Groundhog Coal Area, British Columbia, Geol. Surv. Canada, Paper 79-1B.
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TK-Telkwa 8+ (3)A

TELKWA
1984 DRILL CORE
DISCRIPTIONS

240

TELKWA CORE DESCRIPTION

DRILL HOLE # TW83D-353

APPENDIX 1

01/03/85

LOG DATE 83/08/30
EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
.00	6.93	6.93	OB								
6.93	11.28	4.35	SLST						MEDIUM GREY, RUBBLE WITH POWDER. MINOR IRONSTONE BANDS.		
11.28	15.66	4.38	SS1						IRONSTONE BAND WITH CALCITE FILLED FRACTURES FROM 14.14M. - 14.32M. FINE GRAINED VOLCANIC DETRITUS . BROKEN STICK WITH RUBBLE. MASSIVE		
15.66	16.44	.78	SLST						DARK GREY, SHALEY AND FRIABLE	70	16.20
16.44	17.29	.85	COAL	10	856	47		DISSEMINATED PYRITE	DURAIN WITH MINOR VITRAIN RUBBLE AND POWDER; REC 4CM		
17.29	26.90	9.61	SS1					SILTSTONE AND IRONSTONE	GREY GREEN, FINE GRAINED WITH IRONSTONE AND DARK GREY SILTSTONE INTERLAMINATIONS, THINLY BEDDED WITH MINOR SOFT-SEDIMENT DEFORMATION	67	17.50
26.90	33.46	6.56	MDST						DARK GREY AND WHITE INTERLAMINATIONS		
33.46	34.70	1.24	MDST						DARK GREY CARBONACEOUS, WITH CARBONACEOUS DEBRIS, VERY FRIABLE		
34.70	35.69	.99	COAL	8	857	79		MINOR DISSEMINATED PYRITE	DURAIN, WITH VITRAIN, STICK		
35.69	35.71	.02	PYRT		857	79			SANDY PYRITE		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-353

LOG DATE 83/08/30
EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINDR LIHOLOGY	REMARKS	C.E.A.	DEPTH
---	---	-----	-----	-----	-----	---	-----	-----	-----	-----
35.71	36.86	1.15	COAL	8	857	79		MINOR PYRITE DISSEMINATED THROUGHOUT, DURAIN WITH VITRAIN STICK		
36.86	36.89	.03	MDST		857			DARK GREY		
36.89	37.34	.45	COAL	8	857	79		DURAIN WITH VITRAIN. STICK CORE AND RUBBLE.	64	37.00
37.34	42.05	4.71	MDST				MINOR IRONSTONE	DARK GREY MUDSTONE AND LIGHT GREY SILTSTONE INTERLAMINATIONS MINOR SSD	65	38.70
42.05	53.92	11.87	SS1					RUBBLE AND GOUGE AT 17.35M. - 17.65M., GREY GREEN MEDIUM GRAINED WITH BROWN- GREY IRONSTONE AND DARK GREY MUDSTONE INTERLAMINATIONS		
53.92	54.08	.16	COAL					DURAIN WITH VITRAIN BANDS, DIRTY	70	54.60
54.08	59.10	5.02	MDST					DK GREY, CARBONACEOUS, WITH VERY MINOR IRONSTONE. INTERBEDS OF SHALY DURAIN WITH 5 - 10% VITRAIN.		
59.10	59.96	.86	COAL	7	858	100		DURAIN WITH 5 - 10% VITRAIN, STICK		
59.96	60.00	.04	MDST		858	100		DARK GREY		
60.00	60.25	.25	COAL	7	858	100		DURAIN WITH VITRAIN		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TWB3D-353

01/03/85

LOG DATE 83/08/30
 EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
---	---	-----	---	---	-----	---	-----	-----	-----	-----
60.25	63.70	3.45	MDST					CARBONACEOUS, DARK GREY, FRIABLE AND SHALEY	70	63.20
63.70	64.25	.55	SS1					GREY/GREEN FINE GRAINED WITH SOME CARBONACEOUS INTERLAMINATIONS		
64.25	64.43	.18	COAL	7	859	88		DURAIN WITH VITRAIN < 5%, MINOR CALCITE REHEALING, BROKEN STICK, DARK GREY	67	64.00
64.43	64.46	.03	MDST		859			DARK GREY		
64.46	64.62	.16	COAL	7	859	88		DURAIN WITH VITRAIN		
64.62	65.26	.64	MDST					DARK GREY, FRIABLE		
65.26	65.52	.26	COAL	7		72		RECOVERED 18 CM. OF RUBBLE CONSISTING OF DURAIN WITH <5% VITRAIN TRACE PYRITE IN CLEAT FRACTURES		
65.52	66.39	.87	MDST					CARBONACEOUS, DARK GREY, FRIABLE		
66.39	66.98	.59	COAL	7	860	88		DURAIN WITH VITRAIN BANDS (5 - 10%). TRACE PYRITE FLAKES ON BEDDING PLANES MINOR SLICKENSIDES		
66.98	71.49	4.51	MDST					MEDIUM GREY, VERY FRIABLE,	65	71.93

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-353

LOG DATE 83/08/30
EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								CONTAINS CARBONACEOUS DEBRIS (PLANT FRAGMENTS)		
71.49	72.56	1.07	COAL	7	861	100		RECOVERED 1.07M. STICK CORE. DURAIN WITH VITRAIN BANDS (<5%)		
72.56	75.69	3.13	MDST					DARK GREY CARBONACEOUS MUDSTONE AND WHITE SILTSTONE THINLY LAMINATED WITH MINOR IRONSTONE PARTINGS, LIGHTLY SLICKENSIDED		
75.69	75.87	.18	COAL			100		MOSTLY DURAIN WITH VERY MINOR VITRAIN RUBBLE		
75.87	79.09	3.22	MDST					A/A	68	78.00
79.09	81.91	2.82	COAL	6	862	89		DURAIN WITH VITRAIN BAND < 5%; STICK AND BROKEN STICK; MINOR CALCITE REHEALING EVIDENT		
81.91	82.24	.33	MDST					VERY CARBONACEOUS RUBBLE		
82.24	82.88	.64	MDST					MEDIUM GREY, VERY FRIABLE, LESS CARBONACEOUS THAN THE ABOVE MENTIONED		
82.88	84.65	1.77	COAL	6	863	95		DURAIN WITH VITRAIN BANDS (< 5%). MINOR PYRITE AND CALCITE		
								RECOVERED 1.68M. STICK AND RUBBLE		
84.65	101.32	16.67	SST					GREEN GREY FINE GRAINED SST	72	96.60

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-353

LOG DATE 83/08/30
EXAMINED BY D. DANDREA

TDP	BASE THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A. DEPTH
							WITH BROWN/GREY IRONSTONE, AND DARK GREY MUDSTONE INTERBEDDED, MUDSTONE IS VERY FRIABLE	
101.32	102.32	1.00	COAL	3	864	73	RECOVERED 0.73M. RUBBLE AND GOUGE; DULL WITH BRIGHT	
102.32	103.32	1.00	MDST				MEDIUM GREY SHALEY MODERATELY SLICKENSIDED, SOME CALCITE REHEALING	
103.32	103.81	.49	CDAL	3	865	84	MOSTLY DULL, VERY MINOR VITRAIN AND PYRITE, BROKEN STICK. REC 0.41M.	
103.81	105.72	1.91	MDST				A/A	
105.72	110.07	4.35	CDAL	2	866	83	MOSTLY DULL WITH < 5% VITRAIN AND VERY MINOR PYRITE, SOME CALCITE IN CLEATS 3.62/4.34	67 106.70
110.07	124.54	14.47	MDST				DARK GREY MUDSTONE WITH WHITE SILTSTONE AND IRONSTONE INTERBEDS	71 120.00
124.54	142.34	17.80	SLST				DARK GREY FRIABLE MOSTLY STICK WITH SOME RUBBLE, RELATIVELY MASSIVE, VERY FINE GRAINED, INTERBEDDED, TD BOX 24 AT 142.34	

TELKWA CORE DESCRIPTION

01/03/85

DRILL HDLE # TW3D-354

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	15.20	15.20	DB							
15.20	16.40	1.20	SLST				SS1	THINLY INTERBEDDED.	78	16.00
16.40	21.30	4.90	SS2				SS1	GRADES FROM SS1 AT TOP DOWNWARD TO SS2. OCCASIONAL COAL STRINGER. THIN IRONSTONE AND SILTSTONE BANDS. RIP-UP CLASTS THROUGHOUT.	79	18.30
21.30	24.00	2.70	SLST					DARK GREY: MASSIVE.		
24.00	27.40	3.40	MDST				CARBONACEOUS, SHEARED	BLACK. OCCASIONAL 10CM BAND OF SHALEY COAL.		
27.40	38.40	11.00	SLST				SS1	THINLY INTERBEDDED SS1 IN SILTSTONE. UNIT CONTAINS SEVERAL SMALL (40CM) FINING UPWARD CYCLES. OCCASIONAL RIP UP CLASTS.	64	32.60
								OCCASIONAL IRONSTONE NODULE.	83	36.50
38.40	64.60	26.20	SLST					DARK GREY, MASSIVE. OCCASIONAL THIN (25CM) BAND OF SS1. FINING UP SEQUENCE.	83	54.80
64.60	67.66	3.06	SS2					SALT AND PEPPER. FAIRLY MASSIVE. OCCASIONAL COAL STRINGER.	79	66.00
67.66	77.41	9.75	SLST					DARK GREY, MASSIVE.		

TELKWA CORE DESCRIPTION
 DRILL HOLE # TWE3D-354

01/03/85

LOG DATE 83/00/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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77.41	86.86	9.45	SS1				SILTSTONE	MEDIUM GRAINED SALT AND PEPPER SANDSTONE WITH THIN INTERBEDS OF SILTSTONE AND COAL STRINGERS. OCCASIONAL IRONSTONE NODULES AND BANDS. GRADES TO SS2 AND SS3 IN PART.		
86.86	91.74	4.88	SLST				CARBONACEOUS	OCCASIONAL THIN 10 CM COAL BAND. GRADES INTO SS1 NEAR BASE OF UNIT.		
91.74	98.75	7.01	SS2				SS3	SALT AND PEPPER. SS2 GRADES TO SS3 AT BASE OF UNIT. OCCASIONAL IRONSTONE AND COAL STRINGER OR BLEB. FAIRLY MASSIVE.		
98.75	107.39	8.64	SS1				SILTSTONE	THINLY (<10CM) INTERBEDDED. OCCASIONAL COAL STRINGER AND IRONSTONE BAND.	71	100.00
107.39	108.98	1.59	SH				COALY TO CARBONACEOUS			
108.98	109.25	.27	MDST					BLACK. MASSIVE.		
109.25	110.19	.94	SH				COALY TO CARBONACEOUS			
110.19	111.38	1.19	MDST				CARBONACEOUS	BLACK		
111.38	112.37	.99	SH				COALY TO CARBONACEOUS			

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-354

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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112.37	113.23	.86	MDST				CARBONACEOUS	BLACK.		
113.23	115.38	2.15	COAL	1	69		SHALEY	SILTSTONE SPLITS THROUGHOUT UNIT. LOST COAL MAINLY IN UPPER PART OF SEAM.		
115.38	115.50	.12	BENT							
115.50	121.00	5.50	SLST					DARK GREY; MASSIVE.		
121.00	125.57	4.57	SS3				SS2	SALT AND PEPPER SS3 OCCASIONALLY GRADING TO SS2. THIN INTERBEDS OF SILTSTONE AND COAL STRINGERS. NEAR TOP OF UNIT. LENTICULAR BEDDING. OCCASIONAL IRONSTONE NODULE.	75	123.00
									73	124.00
125.57	132.50	6.93	CONG				SS3 SS2	CONGLOMERATE OCCASIONALLY GRADES INTO SALT AND PEPPER SS3 AND SS2 OCCASIONAL 5MM COAL AND SILTSTONE STRINGER.		
								OCCASIONAL IRONSTONE NODULES.		
132.50	147.83	15.33	SLST				CARBONACEOUS	DARK GREY. OCCASIONAL THIN (<10CM) COAL BAND. OCCASIONAL SHEARED ZONE NEAR UPPER PART OF UNIT. OCCASIONAL IRONSTONE.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW83D-354

01/03/85

LOG DATE 83/00/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.E.A.	DEPTH
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147.83	149.96	2.13	SS1					LIGHT GREY, MASSIVE. FINES UPWARD INTO ABOVE UNIT.		
149.96	152.40	2.44	SS2					SALT AND PEPPER FINES INTD ABOVE UNIT. GRADES TO SS3 AT BASE. ABUNDANT CDAL BLEBS AND STRINGERS.		
152.40	154.80	2.40	SLST				SS1	DARK GREY SILTSTONE GRADES DOWN INTO LIGHT GREY THINLY INTERBEDDED SS1 UNIT AT BASE. TROUGH CROSSBEDDED AT BASE OF UNIT. EROSIONAL CONTACT WITH ABOVE UNIT.	86	153.00
154.80	162.80	8.00	CDNG					MASSIVE. CLASTS UP TO 4CM IN DIAMETER. GRADATIONAL CONTACT UNIT ABOVE. GRADES FROM CONGLOMERATE TO SS1 OVER AN INTERVAL OF 20CM. ABUNDANCE OF THIN COAL STRINGERS IN THIS TRANSITIONAL ZONE. MANY OF THE CLASTS ARE DERIVED FROM THE HAZELTON VOLCANICS. OCCASIONAL COAL CLASTS WITHIN UNIT.	86	155.14
162.80	162.80		UNKN					END OF HOLE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-355

LOG DATE 83/00/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLOGY	REMARKS	C.B.A.	DEPTH
.00	18.60	18.60	OB							
18.60	21.90	3.30	SS1				SILTSTONE	THINLY INTERBEDDED. OCCASIONAL COAL STRINGER. WAVY LENTICULAR BEDDING.	57	19.00
21.90	39.60	17.70	SLST					DARK GREY. MASSIVE. OCCASIONAL THIN SS1 STRINGER. RARE COAL STRINGERS. TRACE SHELL? FRAGMENTS.		
39.60	45.72	6.12	SS1				SILTSTONE	THINLY INTERBEDDED. WAVY LENTICULAR BEDDING.	67	43.00
									67	45.70
45.72	53.00	7.28	SLST					DARK GREY. MASSIVE.		
53.00	58.82	5.82	SS2					SALT AND PEPPER. GREY-GREEN MATRIX. MASSIVE. OCCASIONAL CALCITE FILLED FRACTURE.		
58.82	61.26	2.44	SS1				SLST	THINLY INTERBEDDED. WAVY LENTICULAR BEDDING OCCASIONAL COAL STRINGER.	67	60.00
61.26	69.70	8.44	SLST					DARK GREY. MASSIVE.		
69.70	88.30	18.60	SS1				SILTSTONE	THIN. WAVY TO CONVOLUTED BEDDING. OCCASIONAL CALCITE FILLED FRACTURE.	68	75.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-355

LOG DATE 83/00/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
69.70	88.30	18.60	SS1				SILTSTONE	OCCASIONAL IRONSTONE NODULE.	55	77.00
									83	83.00
									74	87.00
88.30	88.52	.22	COAL	1			SHALEY, SHEARED			
88.52	96.30	7.78	MDST				SILTSTONE	CARBONACEOUS MUDSTONE, GRADING TO SILTSTONE IN PART. OCCASIONAL COALY SHALE ZONES UP TO 10CM THICK. OCCASIONAL 10CM THICK ZONES OF THINLY INTERBEDDED SS1. OCCASIONAL IRONSTONE NODULE. ABUNDANT SLICKENSIDES	62	92.00
96.30	96.30		UNKN					MISSING LAST 5 METRES OF DRILL CORE. END OF HOLE.		

TELKWA CORE DESCRIPTION

 DRILL HDLE # TW&3D-356

01/03/85

LOG DATE 83/12/00
 EXAMINED BY J. EISENMAN

TOP ---	BASE ---	THICKNESS ---	MAJOR ---	SEAM ---	SAMPLE# REC -----	MINOR LITHOLOGY -----	REMARKS -----	C.B.A. -----	DEPTH -----
.00	9.15	9.15	OB				OVERBURDEN		
9.15	28.35	19.20	SLST				DARK GREY, MASSIVE.		
28.35	31.10	2.75	SS1			SS2	SS1 SALT AND PEPPER; GRADES TO SS2 IN PART, OCCASIONAL THIN INTERBEDS OF DARK GREY SILTSTONE.	75	29.26
31.10	38.40	7.30	SLST				DARK GREY, MASSIVE.		
38.40	46.60	8.20	SS1			SILTSTONE	LIGHT GREY SS1 THINLY INTERBEDDED WITH DARK GREY SILTSTONE. WAVY BEDDING. OCCASIONAL IRONSTONE NODULES.	81	41.15
46.60	55.50	8.90	SLST				DARK GREY, MASSIVE		
55.50	56.08	.58	SS2				SALT AND PEPPER; MASSIVE		
56.08	67.05	10.97	SLST				DARK GREY, MASSIVE.		
67.05	84.12	17.07	SS2			SS1	SALT AND PEPPER. GRADES TO SS1 IN PART, OCCASIONAL THIN COAL STRINGERS AND INTERBEDS OF DARK GREY SILTSTONE, RARE CALCITE FILLED FRACTURES.	78	69.19
								74	82.30

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-356

LOG DATE 83/00/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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67.05	84.12	17.07	SS2				SS1	FAIRLY MASSIVE.		
84.12	88.70	4.58	SLST				CARBONACEOUS	BLACK, WITH OCCASIONAL THIN 10CM COAL AND COALY SHALE BANDS. BROWN IRONSTONE NODULES ABUNDANT.		
88.70	93.60	4.90	SS2					SALT AND PEPPER, OCCASIONAL THIN (1CM) INTERBEDS OF DARK GREY SLTST AND CDAL UNIT IS GENERALLY MASSIVE. OCCASIONAL IRONSTONE NODULES.	79	91.44
93.60	102.48	8.88	MDST				CARBONACEOUS	BLACK; GRADING TO DARK GREY SILTSTONE IN PART. OCCASIONAL THIN INTERBEDS OF LIGHT GREY SS1. OCCASIONAL IRONSTONE NODULES.	83	101.19
102.48	103.63	1.15	COAL	1	921	53	POLISHED	REC. 61CM. OF BROKEN CORE; MAINLY DULL WITH THIN BRIGHT BANDS; HIGH ASH. POOR VISUAL AND PHYSICAL SEPARATION WITH H.W. AND F.W.		
103.63	104.40	.77	SLST					DK GREY - BLACK, CARBONACEOUS, BROKEN; 2 CM. PYRITE BAND AT 104.30M.	76	104.24
104.40	104.82	.42	SLST				POLISHED	COALY, DULL. BROKEN CORE.		
104.82	105.84	1.02	SLST					DARK GREY, CARBONACEOUS. MINOR COAL BLEBS.		
105.84	106.30	.46	COAL	1	922	93		RECOVERED 40 CM. OF BROKEN		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-356

LOG DATE 83/00/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								CORE; BRIGHT WITH CLEAN APPEARANCE		
106.30	106.43	.13	SLST		922			COALY, BLACK,		
106.43	108.28	1.85	COAL	1	922	94	POLISHED	RECOVERED 1.75 M. OF BROKEN CORE; MAINLY DULL WITH THIN VITRAIN LAYERS. SEVERAL THIN DIRT BANDS.		
108.28	108.43	.15	MDST					DARK GREY; RECOVERED 12 CM.; GOOD VISUAL SEPARATION WITH COAL ABOVE		
108.43	108.52	.09	COAL					MAINLY BRIGHT WITH THIN VITRAIN LAYERS.		
108.52	113.00	4.48	SLST				SS1	DARK GREY SILTSTONE WITH THIN LENTICULAR INTERBEDS OF LIGHT GREY SS1. WAVY BEDDING; SOME TROUGH CROSSBEDDING IN SS1.	77	111.56
113.00	117.95	4.95	SS2				SILTSTONE	SALT AND PEPPER; FAIRLY MASSIVE WITH OCCASIONAL INTERBEDS OF BLACK SILTSTONE GRADES TO SS3 AT BASE OF UNIT.	76	116.43
117.95	121.92	3.97	SLST				SS1	DARK GREY, MASSIVE, WITH OCCASIONAL THIN INTERBEDS OF SS2 AT BASE OF UNIT.	77	119.48

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-356

LOG DATE 83/00/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
117.95	121.92	3.97	SLST				SS1		THIS UNIT IS PART OF A FINING UPWARD SEQUENCE. GRADATIONAL WITH UNIT BELOW. WAVY BEDDING AT BASE.	78	121.62
121.92	124.66	2.74	SS3				SS2 CONGLOMERATE		GRADES FROM SALT AND PEPPER SS1 AT VERY TOP OF UNIT TO CONGLOMERATE AT BASE. MOST OF UNIT IS MASSIVE SALT AND PEPPER SS3. OCCASIONAL IRONSTONE AND COAL STRINGER.	82	124.05
124.66	133.20	8.54	MDST				CARBONACEOUS		BLACK; GRADES INTO COALY SHALE AT TOP OF UNIT. THIN COALY STRINGERS (<5 CM), THROUGHOUT UNIT. OCCASIONAL THIN (4 CM) BEDS OF LT GREY SS1, AND SALT AND PEPPER SS2 AT BASE	85	131.98
133.20	133.20		UNKN						END OF HOLE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-357

LDG DATE 83/12/00
EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	14.90	14.90	OB					RECOVERED 0.6M SILTY CLAY, PEBBLES.		
14.90	26.21	11.31	SLST					DARK GREY, BROKEN STICK, SANDY SECTIONS.		
26.21	33.22	7.01	SS1					BROKEN STICK; MINOR CARBONACEOUS TRACES	76	32.00
33.22	68.00	34.78	SS1				SILTSTONE INTERBEDDED	BROKEN; CALCITE FILLED FRACTURES. MINOR COAL TRACES.	67	43.30
								CONVOLUTED BEDDING.	65	59.10
68.00	69.04	1.04	SS2					GRAY, CARBONACEOUS TRACES; BROKEN	70	68.90
69.04	70.28	1.24	COAL	1	916	41		DIRTY, MOSTLY GOUGE. 10CM THICK SPLIT NEAR BASE.		
70.28	81.76	11.48	SLST					THREE 4 CM. COAL BANDS. BADLY BROKEN, SOME POLISHED FRACTURES.		
81.76	82.82	1.06	COAL	1	917	47		RUBBLE AND POWDER, DULL WITH BRIGHT		
82.82	83.92	1.10	SH					DARK GREY WITH MINOR CALCITE PARTINGS; BROKEN WITH RUBBLE		
83.92	84.44	.52	COAL	1	918	72		RUBBLE; DULL WITH BRIGHT		
84.44	85.58	1.14	SH					MEDIUM GREY, BROKEN STICK		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWL3D-357

LOG DATE 83/00/00
EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
85.58	86.92	1.34	COAL	1	919	35		DULL WITH BRIGHT, BROKEN AND RUBBLE, WITH MINOR SHALE SPLITS	65	85.00
86.92	87.08	.16	SH		919					
87.08	88.84	1.76	COAL	1	919	35				
88.84	88.96	.12	SH		919					
88.96	89.64	.68	COAL	1	919	35				
89.64	91.57	1.93	SLST					MEDIUM GREY WITH MINOR CALCITE PARTINGS. BROKEN STICK.	74	89.70
91.57	92.10	.53	COAL	1	920	34		DULL WITH BRIGHT; RUBBLE AND POWDER		
92.10	92.40	.30	SLST					BROKEN		
92.40	96.62	4.22	CONG					SLIGHTLY CALCAREOUS, MOST PEBBLES ARE 1-2 CM. IN DIAMETER AND WELL ROUNDED PREDOMINANTLY GREEN IN COLOUR		
96.62	112.47	15.85	SLST					MAINLY BROKEN STICK, DARK GREY, MINOR COAL, APPEARS MASSIVE	65	100.90

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-357

LOG DATE 83/00/00
EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
96.62	112.47	15.85	SLST							66	107.00
112.47	112.47		UNKN						END OF HOLE		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWE3D-358

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLDCY	REMARKS	C.B.A.	DEPTH
.00	9.10	9.10	OB							
9.10	70.41	61.31	SLST					GREY MAINLY BROKEN STICK, SEVERAL CALCITE HEALED FRACTURES; MINOR COAL TRACES; BEDDING APPEARS MASSIVE, A FEW THIN (<15CM) IRONSTONE BANDS. SEVERAL PYRITIC COAL BLEBS. SOME STICK CORE.	81	63.40
70.41	71.93	1.52	SS1				SILTSTONE INTERBEDDED	MINOR COAL TRACES.	80	71.30
71.93	73.46	1.53	SLST					GREY, BROKEN.		
73.46	76.50	3.04	SS2					COAL TRACES, MINOR IRON STAINING, MASSIVE; SILTY IN PART.		
76.50	86.87	10.37	SLST					DARK GREY, MINOR COAL TRACES, MAINLY BROKEN STICK.		
86.87	105.46	18.59	SS2					FE STAINING, BROKEN STICK, MINOR CARBONACEOUS TRACES, MAINLY MASSIVE BEDDING SOME SILTSTONE BANDS.	80	87.20
									80	98.45
									77	99.70
									78	104.50
105.46	105.46		UNKN					END OF HOLE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-358

LOG DATE 83/00/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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TELKWA CORE DESCRIPTION

 DRILL HOLE # TW23D-359

01/03/85

LOG DATE 83/12/00
 EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	15.40	15.40	OB							
15.40	16.78	1.38	MDST					MEDIUM GREY, EXTREMELY WEATHERED.		
16.78	18.96	2.18	COAL		923	41		RUBBLE AND POWDER; DULL WITH VITRAIN BANDS. MINOR BENTONITE PARTING SHALE BAND SEEN ON GEOPHYSICAL LOGS, NOT RECOVERED IN CORE.		
18.96	19.81	.85	LC					LOST CORE		
19.81	23.25	3.44	COAL		923	41				
23.25	23.40	.15	MDST		923	41				
23.40	24.95	1.55	COAL		923	41				
24.95	27.22	2.27	MDST					MEDIUM GREY; BROKEN WITH RUBBLE; MINOR CALCITE AND PYRITE PARTINGS	70	27.00
27.22	29.79	2.57	COAL	2	924	25		RUBBLE; DULL WITH VITRAIN BANDS.		
29.79	30.00	.21	MDST					CARBONACEOUS, FRIABLE.		

TELKWA CORE DESCRIPTION

01/03/85

 DRILL HOLE # TW83D-359

LOG DATE 83/12/00
 EXAMINED BY D. DANDREA

TOP ---	BASE ---	THICKNESS -----	MAJOR -----	SEAM -----	SAMPLE# -----	REC -----	MINOR LITHOLOGY -----	REMARKS -----	C.B.A. -----	DEPTH -----
30.00	31.77	1.77	COAL	2	925	93		DULL WITH VITRAIN BANDS. 10 CM. SHALE SPLIT 1 METRE BELOW TOP OF UNIT.		
31.77	136.80	105.03	SLST				SS1	THIN INTERBEDS OF SS1: WELL DEVELOPED BEDDING ONLY AT TOP OF UNIT. CORE FROM 42.7M TO 52.1M IS BROKEN WITH POLISHED FRACTURE SURFACES. POLISHED FRACTURE SURFACES ARE COMMON IN INTERVAL FROM 90.0M TO 98.0M IRONSTONE BANDS ARE COMMON; AS ARE CALCITE FILLED FRACTURES	47	33.20
									56	34.10
									56	36.00
									58	38.70
								TRACE COAL BLEBS; TRACE PYRITE.	56	43.90
136.80	136.80		UNKN					END OF HOLE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-360

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	8.76	8.76	DB							
8.76	8.91	.15	CLAY					GREY, SOFT.		
8.91	9.00	.09	IRST					GREENISH GREY; R3.		
9.00	13.50	4.50	SS1					MEDIUM GREEN, MINOR COAL TRACES, POORLY DEVELOPED BEDDING, R2-R3 SOME THIN BEDDING (CROSS BEDDING AND CONVOLUTED) IN LOWER 40 CM; REC. 4.4M		
13.50	14.13	.63	COAL		926	56		RECOVERED 0.34M OF BADLY BROKEN CORE; THIN GREEN SS1 LENSES IN UPPER 20CM. COAL IS HARD, SEMI-LUSTROUS.		
14.13	14.26	.13	MDST		926	56		BLACK, COALY, RECOVERED: 0.09M.		
14.26	14.42	.16	COAL		926	56		DULL; HIGH ASH. RECOVERED 0.09M.		
14.42	14.66	.24	MDST					COALY, RECOVERED: 0.10M.		
14.66	14.80	.14	MDST					LOST CORE		
14.80	15.55	.75	SLST					GREY, R1, RECOVERED: 0.72M		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-360

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
15.55	19.96	4.41	SS1					GREEN, LOWER 40CM HAS SOME THIN CONVOLUTED BEDDING; BROKEN STICK. NO EVIDENCE OF POLISHING OR SLICKENSIDING		
19.96	21.06	1.10	COAL	10	927	40		BADLY BROKEN; REC: 0.44M; GREEN SS1 BLEBS; LOWER 20CM VERY DIRTY; TRACE PYRITE		
21.06	23.20	2.14	SLST				SS1/MUDSTONE	DARK GREY SILTSTONE GRADES INTO LIGHT GREY SS1 AT BASE OF UNIT. FREQUENT INTERBEDS OF MUDSTONE AND COAL STRINGERS THROUGHOUT UNIT. EVIDENCE OF SOFT SEDIMENT DEFORMATION.		
23.20	32.60	9.40	SS1				MUDSTONE	LIGHT GREY-GREEN SS1 WITH THIN INTERBEDS (< 2CM) OF MUDSTONE. SOFT SEDIMENT DEFORMATION AND TROUGH CROSS BEDDING IS COMMON. RARE CALCITE FILLED FRACTURES AND IRONSTONE NODULES. BIOTURBATED IN PART.	60	26.00
									56	30.00
									58	31.00
32.60	50.74	18.14	MDST				SS1	BLACK MUDSTONE WITH THIN LENTICULAR INTERBEDS OF GREY GREEN SS1. SOME SOFT SEDIMENT DEFORMATION. SMALL SCALE NORMAL FAULTS. OCCASIONAL SLICKENSIDES. RARE COAL STRINGERS.	66	38.00
									65	42.00
									63	48.00
									60	50.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-360

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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50.74	52.70	1.96	COAL	8	928	40		RECOVERED: 0.77M BADLY BROKEN COAL; MAINLY CLEAN WITH THIN VITRAIN BANDING GOOD VISUAL AND PHYSICAL SEPARATION WITH H.W.; PYRITE LENSES		
52.70	53.06	.36	SLST					LOST CORE		
53.06	53.20	.14	SLST				COALY	POLISHED		
53.20	57.20	4.00	SLST				SS1	DARK GREY SILTSTONE WITH THIN INTERBEDS OF SS1. WAVY BEDDING. RARE COAL STRINGERS AND IRONSTONE BANDS. SOME SMALL SCALE NORMAL FAULTS.	57	55.00
									58	57.00
57.20	69.50	12.30	SS1				SILTSTONE	GREY SS1 INTERBEDDED WITH DK GREY SILTSTONE. OCCASIONAL IRONSTONE NODULE. SILTSTONE BECOMES DOMINANT NEAR THE BASE OF THE UNIT. WAVY BEDDING.	60	59.00
									66	68.00
69.50	69.65	.15	COAL							
69.65	75.95	6.30	SS1				MUDSTONE	LIGHT GREY SS1 WITH THIN INTERBEDS OF BLACK SILTSTONE.	65	73.00
75.95	76.29	.34	MDST					BLACK. OCCASIONAL THIN BANDS OF LIGHT GREY SS1.		
76.29	77.89	1.60	COAL	7	929	77		BROKEN; VITRAIN BANDED; POOR		

TELKWA CDRE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-360

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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								F.W. CONTACT		
								4CM PYRITE STRINGER AT 77.45M; 7CM SILTSTONE BAND AT 77.66M		
77.89	79.20	1.31	MDST				SS1	MUDSTONE INTERBEDDED WITH GREY SS1. SLICKENSIDES COMMON	73	78.00
								SS1 INTERBEDS BECOME THICKER AND MORE FREQUENT TOWARDS BASE OF THE UNIT.		
79.20	90.07	10.87	SS1				MUDSTONE	SS1 WITH INTERBEDS OF BLACK MUDSTONE (UP TO 30CM THICK)	74	81.00
								OCCASIONAL IRONSTONE NODULES.		
90.07	90.62	.55	COAL	6	930	13		RECOVERED 0.07M. BROKEN CORE. DULL BANDED.		
90.62	93.77	3.15	SLST				SS1, SLICKENSIDED	THINLY BEDDED, BROKEN, MAINLY DARK GREY WITH LIGHT GREY SS1.		
93.77	93.92	.15	COAL		931	53		RECOVERED: 0.08M. BROKEN CORE. DIRTY, HIGH ASH.		
93.92	94.29	.37	SLST				SLICKENSIDED	DARK GREY-BLACK; BRDKEN.	68	94.00
94.29	95.33	1.04	COAL	6	932	43		RECOVERED: 0.45M. BROKEN CORE. CLEAN, BRIGHT.		
95.33	95.67	.34	MDST					DARK GREY, CRUSHED AND BADLY BROKEN.		
95.67	95.82	.15	COAL		933	53		RECOVERED: 0.08M; MAINLY DULL		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB3D-360

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
95.82	105.50	9.68	MDST				SILTSTONE	BLACK; ABDT SLICKENSIDES AT TOP OF UNIT; OCCASIONAL LENTICULAR SS1 OCCASIDNAL IRONSTONE CLASTS. GRADES INTO SILTSTONE AT BASE OF UNIT.	65	100.00
105.50	125.10	19.60	SS1				MUDSTONE/SILTSTONE	LIGHT GREY SS1 WITH THIN INTERBEDS OF MUDSTONE AND SILTSTONE. EVIDENCE OF BIOTURBATION AND SOFT SEDIMENT DEFORMATION.	79	110.00
								SOME SMALL SCALE NORMAL FAULTS. NUMBER OF INTERBEDS DECREASES TOWARD BASE	75	120.00
125.10	125.57	.47	COAL	3	934	53		RECOVERED 0.25M. BROKEN CORE. CLEAN COAL.		
125.57	125.83	.26	MDST				SLICKENSIDED	CRUSHED, DARK GREY.		
125.83	126.76	.93	COAL	3	935	91		RECOVERED 0.85M. BROKEN CORE. MAINLY BRIGHT, CLEAN. DIRTIER TOWARDS ROOF.		
126.76	126.98	.22	MDST					DARK GREY.	80	126.50
126.98	127.55	.57	COAL	3	936	79		BADLY BROKEN, BRIGHT BANDED. REC: 0.45/0.57=79%		
127.55	129.80	2.25	MDST				CARBONACEOUS	BLACK		
129.80	134.90	5.10	SS1				SILTSTONE/MUDSTONE	THINLY INTERBEDDED; WAVY;	72	133.00

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW83D-360

01/03/85

LOG DATE 83/12/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
								OCCASIONAL FOLDING, SDFT SEDIMENT DEFORMATION.		
134.90	136.05	1.15	MDST				CARBONACEOUS	BLACK.		
136.05	136.40	.35	COAL	2	937	60		REC:0.21/0.35=60%. BRIGHT,CLEAN.		
136.40	137.97	1.57	SLST				SLICKENSIDED	DARK GREY,BROKEN.		
137.97	139.35	1.38	COAL	2	938	87		REC:1.20/1.38=87%. BRIGHT BANDED. DIRT BAND AT 138.20M.	40	138.00
								TRACE PYRITE	30	139.10
139.35	146.80	7.45	MDST				CARBONACEOUS/SILTSTONE	DARK GREY,OCCASIONAL BAND OF IRONSTONE AND SOME THIN INTERBEDS OF GREY SS1 GRADES TO SILTSTONE AT BASE OF UNIT. OCCASIONAL SLICKENSIDES		
146.80	146.96	.16	COAL					SHEARED.		
146.96	147.76	.80	MDST				CARBONACEOUS	BLACK.		
147.76	147.98	.22	COAL				SHEARED			
147.98	149.30	1.32	SLST				SS1	INTERBEDDED.	67	148.00
149.30	149.70	.40	SS1				SILTSTONE	INTERBEDDED.	62	149.50

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW83D-360

01/03/85

LOG DATE 83/12/00
 EXAMINED BY J. EISENMAN

TOP ---	BASE ---	THICKNESS -----	MAJOR -----	SEAM -----	SAMPLE# -----	REC -----	MINOR LITHOLOGY -----	REMARKS -----	C.B.A. -----	DEPTH -----
149.70	152.15	2.45	SLST				MUDSTONE	DARK GREY SILTSTONE INTERBEDDED WITH BLACK MUDSTONE. OCCASIONAL INTERBEDS OF LIGHT GREY SS1.	66	151.00
152.15	152.32	.17	COAL				SHEARED			
152.32	154.73	2.41	MDST				SILTSTONE CARBONACEOUS	BLACK AND DARK GREY. OCCASIONAL IRONSTONE NODULE. CONVOLUTED BEDDING.		
154.73	154.88	.15	COAL				SHEARED			
154.88	165.50	10.62	SLST				MUDSTONE/SS1	DARK GREY SILTSTONE WITH THIN INTERBEDS OF LIGHT GREY SS1.	69	157.00
								GRADES TO BLACK MUDSTONE IN PART. OCCASIONAL IRONSTONE NODULE WITH CALCITE FILLED FISSURES.	71	165.00
165.50	165.50		UNKN					END OF HOLE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-361

LOG DATE 83/00/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	6.10	6.10	OB								
6.10	19.50	13.40	SLST						DARK GREY, OCCASIONAL THIN BED OF GREEN-GREY SS1.	74	11.50
19.50	20.40	.90	SS1						SALT AND PEPPER, OCCASIONAL COAL STRINGER AND IRONSTONE CLAST. MASSIVE.		
20.40	29.20	8.80	SLST						DARK GREY. GRADES INTO SS1 NEAR BASE OF UNIT.		
29.20	29.80	.60	SS1						SALT AND PEPPER, OCCASIONAL IRONSTONE CLAST AND COAL STRINGER. THIS IS THE BASE OF A "FINING UPWARD" SEQUENCE WHICH INCLUDES THE ABOVE UNIT.	67	29.50
29.80	32.30	2.50	SLST						DARK GREY. THIS IS THE UPPER PART OF ANOTHER "FINING UPWARD" SEQUENCE.		
32.30	36.27	3.97	SS1						SALT AND PEPPER, OCCASIONAL IRONSTONE CLAST AND COAL STRINGER.	68	35.00
36.27	40.20	3.93	SLST						DARK GREY, OCCASIONAL IRONSTONE CLAST. PART OF "FINING UP" SEQUENCE. GRADES INTO SS1 AT BASE.		
40.20	49.88	9.68	SS1					SILTSTONE	SALT AND PEPPER, OCCASIONAL IRONSTONE CLAST, OCCASIONAL BAND OF INTERBEDDED DARK GREY SILTSTONE.	66	47.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-361

LOG DATE 83/00/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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49.88	52.70	2.82	SLST				MUDSTONE, CARBONACEOUS	DARK GREY SILTSTONE WITH BLACK CARBONACEOUS MUDSTONE. OCCASIONAL INTERBED OF GREY SS1 NEAR BASE OF UNIT. PART OF "FINING UP" SEQUENCE.		
52.70	56.43	3.73	SS1				SILTSTONE	SALT AND PEPPER SS1. SOME INTERBEDDED SILTSTONE AT TOP OF UNIT. GRADES INTO SS2 AT BASE OF UNIT. ABUNDANCE OF COAL STRINGERS AND RIP UP CLASTS	67	53.00
								EROSIONAL CONTACT WITH COAL SEAM BELOW.	69	55.00
									64	56.00
									73	56.10
56.43	57.43	1.00	COAL		939	90		DULL WITH VITRAIN BANDS.		
57.43	61.15	3.72	MDST				CARBONACEOUS	BLACK. ONE 20 CM BAND OF IRONSTONE WITH CALCITE FILLED FISSURES.		
61.15	61.45	.30	COAL					POOR RECOVERY; NOT SAMPLED		
61.45	66.02	4.57	MDST				CARBONACEOUS	BLACK; FAIRLY MASSIVE WITH OCCASIONAL SHEARED ZONE.	74	66.00
66.02	66.73	.71	COAL	1				POWDER, GOUGE.		
66.73	67.10	.37	MDST					DARK GREY, BROKEN WITH RUBBLE.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW83D-361

01/03/85

LOG DATE 83/00/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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67.10	67.58	.48	COAL	1	940	98		DULL WITH VITRAIN BANDS, BROKEN WITH RUBBLE.		
67.58	67.71	.13	MDST		940					
67.71	68.02	.31	COAL	1	940	98		AS ABOVE		
68.02	69.05	1.03	MDST					DARK GREY WITH PLANT REMAINS; BROKEN WITH RUBBLE.		
69.05	69.35	.30	COAL	1	941	90		DULL WITH BRIGHT BANDS, BROKEN STICK.		
69.35	71.17	1.82	SLST					MEDIUM GREY, MASSIVE, BROKEN STICK WITH RUBBLE 10 CM. IRONSTONE BAND AT THE BOTTOM OF THE UNIT.		
71.17	72.20	1.03	COAL	1	942	73		DULL WITH VITRAIN BANDS, BROKEN WITH RUBBLE AND POWDER.		
72.20	72.40	.20	MDST							
72.40	73.62	1.22	COAL	1	944	73		DULL WITH VITRAIN BANDS		
73.62	73.68	.06	MDST		944					

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-361

LOG DATE 83/00/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
73.68	75.17	1.49	COAL	1	944	73		DULL WITH VITRAIN BANDS		
75.17	78.55	3.38	SLST				SS1	UNIT CONSISTS OF SEVERAL (3) SMALL FINING UPWARD SEQUENCES FROM GREY SS1 TO GREY SILTSTONE.	72	75.40
									74	76.00
78.55	78.79	.24	COAL				SHALEY	NOT SAMPLED.		
78.79	88.00	9.21	SLST				CARBONACEOUS	DARK GREY TO BLACK; FAIRLY MASSIVE		
88.00	89.50	1.50	SS1				SILTSTONE	INTERBEDDED. MOSTLY CONVOLUTED BEDDING.	76	89.00
89.50	90.55	1.05	SLST				CARBONACEOUS	BLACK.		
90.55	90.75	.20	COAL			25		DULL; RUBBLE. NOT SAMPLED.		
90.75	90.85	.10	MDST					DARK GREY.		
90.85	91.17	.32	COAL		943	100		DULL, MINOR BRIGHT. BROKEN CORE AND RUBBLE.		
91.17	91.35	.18	MDST				COALY			
91.35	94.48	3.13	SLST				SS1	GRADES FROM DARK GREY		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-361

LOG DATE 83/00/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								SILTSTONE TO LIGHT GREY SS1. SILTSTONE IS CARBONACEOUS OCCASIONAL SLICKENSIDES AT TOP OF UNIT. UPPER PART OF FINING UPWARD SEQUENCE		
94.48	98.75	4.27	SS1				SS2	OCCASIONAL INTERBED OF SILTSTONE. OCCASIONAL COALY STRINGERS GRADES TO SS2 THEN SS3 AT BASE OF UNIT. SOME SMALL SCALE NORMAL FAULTS. BEDDING WHEN SEEN IS CONVOLUTED.	73	98.00
98.75	102.70	3.95	CONG				SS3	FINES UPWARD INTO ABOVE UNIT. ABUNDANCE OF COAL CLASTS AND STRINGERS.		
102.70	111.86	9.16	SLST				COALY SHALE.	DARK GREY SILTSTONE WITH OCCASIONAL BED OF COALY-VERY CARBONACEOUS SHALE "FINING UPWARD" SEQUENCES OCCUR WITHIN THE UNIT.	77	104.00
								BEDDING WHEN SEEN IS USUALLY CONVOLUTED.	76	107.00
111.86	112.40	.54	SS1					FINES UPWARD INTO ABOVE UNIT. OCCASIONAL COAL STRINGER.	76	112.00
112.40	134.00	21.60	SLST				SS1	GRADES FROM DK GREY SILTSTONE TO LIGHT SS1-SS2 IN THE BOTTOM 3 M. OF UNIT UPPER PART OF THE UNIT IS A MASSIVE DARK GREY SILTSTONE.	78	130.00
								COAL STRINGERS ARE COMMON AT THE BASE OF THE UNIT.		
134.00	135.63	1.63	SS3				CONGLOMERATE	GRADATIONAL CONTACT WITH		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW830-361

LOG DATE 83/00/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
							ABOVE UNIT. BASAL CONGLOMERATE CONSISTS OF 3 CM PEBBLES OF HAZELTON VOLCANICS. THIS IS THE BASE OF A FINING UPWARD SEQUENCE ABUNDANT COAL STRINGERS AND BLEBS.		
135.63	142.18	6.55	SLST			COALY SHALE	DK GREY CARBONACEOUS SILTSTONE WITH OCCASIONAL 10-20 CM BED OF COALY SHALE IN THE BASAL .5 M. OF THIS UNIT THE SILTSTONE GRADES TO LIGHT GREY SS1	73	139.00
142.18	143.80	1.62	SS3			SS2	RAPID GRADATIONAL CONTACT WITH ABOVE UNIT, THIS UNIT GRADES FROM SS2 AT TOP TO SS3 AT BASE. SOME PEBBLES AT BASE, EROSIONAL CONTACT AT BASE. MASSIVE.		
143.80	154.50	10.70	MDST				BLACK, MASSIVE. RARE IRONSTONE NODULE AT TOP OF UNIT. CARBONACEOUS.		
154.50	154.50		UNKN				END OF HOLE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-362

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	9.10	9.10	OB					OVERBURDEN		
9.10	19.50	10.40	SLST				SS1	DARK GREY SILTSTONE INTERBEDDED WITH LIGHT GREY SS1. SOFT SEDIMENT DEFORMATION.	49	11.00
19.50	24.70	5.20	MDST					BLACK, CALCITE FILLED FRACTURES ARE ABUNDANT. MASSIVE.		
24.70	33.50	8.80	SLST				SS1	DARK GREY SILTSTONE. MASSIVE. FINES UPWARD INTO ABOVE UNIT. GRADES INTO SS1 AT BASE.		
33.50	38.80	5.30	SS1				SILTSTONE/MUDSTONE	GREY GREEN SS1 INTERBEDDED WITH DARK GREY MUDSTONE AND SILTSTONE.	58	38.00
38.80	38.95	.15	COAL				SILTSTONE	COAL INTERBEDDED WITH THREE SILTSTONE SPLITS (2 CM THICK)		
38.95	39.60	.65	SS1				SILTSTONE	LIGHT GREY SS1 INTERBEDDED WITH DARK GREY THIN SILTSTONE. SOFT SEDIMENT DEFDRMATIDN.		
39.60	39.75	.15	COAL					DULL HARD. INTERBEDDED MUDSTONE-SILTSTONE AT ROOF AND FLOOR CONTACTS.		
39.75	40.50	.75	SLST				MUDSTDNE/SS1	DARK GREY MUDSTONE AND SILTSTONE INTERBEDDED WITH THIN LIGHT GREY SS1.	57	40.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-362

LDG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
39.75	40.50	.75	SLST				MUDSTONE/SS1	SS1 BECOMES MORE ABUNDANT NEAR BASE OF UNIT. COAL STRINGERS ARE ABUNDANT AT TOP OF UNIT.		
40.50	44.50	4.00	SS1				MUDSTONE/SILTSTONE	LIGHT GREY-GREEN SS1 INTERBEDDED WITH DARK GREY MUDSTONE AND SILTSTONE. FINES UPWARD INTO UNIT ABOVE. SS1 BECOMES MORE MASSIVE AT BASE OF THIS UNIT.	49	42.00
44.50	48.20	3.70	SLST				SS1	THINLY INTERBEDDED DARK GREY SILTSTONE WITH LIGHT GREY SS1. UNIT CONSISTS OF SEVERAL FINING UP SEQUENCES FROM SS1 TO SILTSTONE. INTERBEDS OF SS1 LESS PROMINANT NEAR TOP OF EACH CYCLE.	59	46.00
48.20	96.60	48.40	MDST				SILTSTONE/SS1	BLACK MUDSTONE AND DARK GREY SILTSTONE INTERBEDDED WITH THIN LENTICULAR BANDS OF LIGHT GREY SS1.	56 44	61.00 64.00
								CONVOLUTED BEDDING DUE TO SDFT SEDIMENT DEFORMATION IS COMMON.	49	66.00
								SLICKENSIDES OCCUR GENERALLY ALONG BEDDING PLANES AND ARE MORE COMMON WHERE DIPS ARE STEEPER. SMALL SCALE FAULTS ARE COMMON.	34 19	74.00 76.50
									14	84.00
									39	87.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-362

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
48.20	96.60	48.40	MDST				SILTSTONE/SS1		68	89.00
									72	92.00
96.60	103.00	6.40	SS1				SILTSTONE/MUDSTONE	LIGHT GREY SS1 INTERBEDDED WITH DARK GREY SILTSTONE AND BLACK CARBONACEOUS MUDSTONE (FLASER BEDDING)	56	99.00
								THIN COAL STRINGERS ARE COMMON. OCCASIONAL IRONSTONE NODULE SMALL SCALE NORMAL FAULTS.	56	102.00
103.00	106.94	3.94	MDST				CARBONACEOUS	DARK GREY.		
106.94	108.42	1.48	COAL	7	957	12		RECOVERED: 0.18M OF BADLY BROKEN BRIGHT COAL WITH 2 CM. SILTSTONE BAND		
108.42	110.00	1.58	MDST				CARBONACEOUS	DARK GREY.		
110.00	119.20	9.20	SS1				MUDSTONE/SILTSTONE	LT GREY SS1 INTERBEDDED WITH DK GREY SILTSTONE AND CARBONACEOUS MUDSTONE. OCCASIONAL IRONSTONE WITH CALCITE FILLED FISSURES. BEDDING CONVOLUTED IN PLACES. SOME SOFT SEDIMENT DEFORMATION. POSSIBLE BIOTURBATION. SOME SMALL SCALE FAULTING. OCCASIONAL COAL STRINGERS AND CLASTS.	61	111.00
									59	119.00
119.20	120.96	1.76	MDST				CARBONACEOUS	DARK GREY.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-362

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
120.96	121.65	.69	COAL					RECOVERED:0.08M. CONSISTING OF SMALL PIECES OF BRIGHT BANDED COAL.		
121.65	122.05	.40	MDST				CARBONACEOUS	DARK GREY.		
122.05	122.84	.79	COAL	6				RECOVERED:0.04M. HIGH ASH.		
122.84	123.00	.16	SLST					DARK GREY		
123.00	123.88	.88	COAL	6				RECOVERED:0.03M.		
123.88	126.06	2.18	MDST				SLST/SS1	BLACK CARBONACEOUS MUOSTONE WITH THIN INTERBEDS OF SILTSTONE AND LT GREY SS COAL STRINGERS AND BLEBS THROUGHOUT. BEDDING IS WAVY TO CONVOLUTED IN PART THERE IS A 20CM MASSIVE SS1 IN THE MIDDLE OF THIS UNIT.	74	124.00
								OCCASIONAL CALCITE FILLED FRACTURES. OCCASIONAL IRONSTONE NODULES WITH CALCITE FILLED FISSURES.	70	126.00
126.06	128.71	2.65	COAL	6	958	28		BROKEN;RECOVERED:0.75M, MAINLY BRIGHT BANDED.		
128.71	133.20	4.49	SLST				SS1/MUDSTONE	DARK GREY SILTSTONE WITH THIN BANDS OF INTERBEDDED SS1 AND	67	129.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-362

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								MUDSTONE. COAL STRINGERS ARE COMMON. OCCASIONAL IRONSTONE NODULE.		
133.20	148.20	15.00	SS1				SILTSTONE/MUDSTONE	LIGHT GREY SS1 INTERBEDDED WITH DARK GREY SILTSTONE AND BLACK CARBONACEOUS MUDSTONE. OCCASIONAL BIOTURBATION.	56	135.00
									58	141.50
									63	143.00
									68	145.00
148.20	149.29	1.09	MDST				CARBONACEOUS	BLACK. COAL STRINGERS COMMON. OCCASIONAL INTERBEDS OF DARK GREY SILTSTONE AND LIGHT GREY SS1.		
149.29	150.49	1.20	COAL	3	959	34		RECOVERED:0.41M. BRIGHT, CLEAN COAL.		
150.49	151.30	.81	MDST				CARBONACEOUS	BLACK		
151.30	158.28	6.98	SS1				SILTSTONE/MUDSTONE	LIGHT GREY SS1 INTERBEDDED WITH DARK GREY SILTSTONE AND BLACK CARBONACEOUS MUDSTONE. OCCASIONAL COAL STRINGER AND CLAST.	66	154.00
								OCCASIONAL INTERBED OF SALT AND PEPPER SS2 NEAR BASE OF UNIT.	62	155.50
158.28	158.66	.38	COAL	2	960	39		RECOVERED:0.15M. OF BAOLY BROKEN BRIGHT, CLEAN COAL		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-362

LOG DATE 83/00/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								H.W. CONTACT IS VISUALLY AND PHYSICALLY DISTINCT.		
158.66	158.88	.22	CLAY					BLACK; COALY; RECOVERED: 0.07M.		
158.88	159.28	.40	COAL	2	961	25		RECOVERED 10 CM. OF BRIGHT BANDED COAL		
159.28	159.38	.10	CLAY					BLACK; COALY; RECOVERED: 0.03M.		
159.38	160.67	1.29	COAL	2	962	100		BRIGHT BANDED, CLEAN; MINOR CALCITE ALONG CLEAT FRACTURES		
160.67	162.50	1.83	MDST				SS1/SILTSTONE	BLACK MUDSTONE INTERBEDDED WITH SILTSTONE AND LIGHT GREY SS1. BEDDING IS MAINLY LENTICULAR BUT IS WAVY TO CONVOLUTED IN PART. ABUNDANT SLICKENSIDES ALONG BEDDING PLANES.	68	162.00
									63	163.00
162.50	189.00	26.50	SLST				SS1	DARK GREY SILTSTONE WITH THIN LENTICULAR INTERBEDS OF LIGHT GREY SS1. SS1 INTERBEDS DECREASE IN SIZE AND FREQUENCY NEAR BASE OF UNIT. UNIT BECOMES QUITE MASSIVE NEAR BASE. A 15 CM. COAL SEAM OCCURS AT 167.8M.	47	171.00
									63	174.00
									66	175.40
189.00	189.00		UNKN					END OF HOLE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-363

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	15.00	15.00	OB							
15.00	16.20	1.20	SS1					GREENISH GREY, MICACEOUS, THINLY BEDDED.	65	16.00
									58	16.10
16.20	16.97	.77	COAL	10	945	65		RUBBLE AND POWDER. DULL WITH VERY MINOR VITRAIN.		
16.97	23.60	6.63	SS1					GREY-SLIGHTLY GREEN; THINLY BEDDED WITH THIN SILTSTONE LAYERS. MICACEOUS. BROKEN CORE.	56	17.40
									66	20.40
									56	23.50
23.60	24.80	1.20	CLAY				CARBONACEOUS	BLACK, SOFT.	63	24.70
24.80	25.32	.52	COAL	9	946	58		POWDER WITH RUBBLE. DULL WITH VERY MINOR VITRAIN.		
25.32	26.50	1.18	SLST				SS1 LAYERS		64	26.20
26.50	31.00	4.50	SS1					GREENISH GREY, BROKEN, THIN SILTSTONE LAYERS.	56	27.70
									59	29.30
									53	30.70

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-363

LDG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
										56	30.90
31.00	32.25	1.25	CLAY						BLACK, BROKEN CORE.	50	31.70
32.25	32.51	.26	COAL	8							
32.51	32.95	.44	CLAY								
32.95	34.25	1.30	COAL	8							
34.25	49.24	14.99	SLST				SS1		THINLY INTERBEDDED. THIN IRONSTONE BANDS ARE COMMON. OCCASIONAL CALCITE FILLED FRACTURES. CORE CONSISTS OF BROKEN STICK AND RUBBLE.	55	36.60
										49	40.20
										49	43.50
										34	46.30
										34	48.00
49.24	50.40	1.16	COAL	7							
50.40	56.50	6.10	SLST				SS1		THINLY INTERBEDDED. BROKEN CORE. THIN IRONSTONE BANDS COMMON.	76	50.70

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW83D-363

01/03/85

LOG DATE 83/12/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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50.40	56.50	6.10	SLST				SS1		71	52.40
									80	56.00
									79	56.30
56.50	59.00	2.50	COAL	6	947	16		POWDER AND RUBBLE CONSISTING MAINLY OF DULL COAL.		
59.00	60.00	1.00	CLAY					GREY, VERY SOFT.		
60.00	67.44	7.44	SS1				SILTSTONE	BROKEN CORE. THIN SILTSTONE INTERBEDS. MICACEOUS. SOME CONVOLUTED BEDDING.	64	60.50
									67	64.20
									40	64.90
									40	66.20
67.44	69.58	2.14	COAL	6	948	100		POWDER WITH SOME RUBBLE. DULL WITH VITRAIN.	30	68.60
69.58	80.84	11.26	SLST				SS1 THINLY INTERBEDDED	BROKEN CORE. SEVERAL THIN IRONSTONE BANDS. TWO CLEAN SS1 INTERVALS.	46	70.70
									49	72.50
									51	74.70
									49	75.60

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-363

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
									44	80.70
80.84	82.68	1.84	COAL	7	949	18		POWDER WITH SOME RUBBLE. DULL WITH VITRAIN.		
82.68	87.90	5.22	SLST				SS1	BROKEN; DARK GREY SILTSTONE INTERBEDDED WITH GREY SS1	47	84.00
									46	85.60
									50	87.90
87.90	89.20	1.30	SS1				SILTSTONE BANDS		50	88.70
89.20	89.26	.06	COAL							
89.26	90.40	1.14	CLAY				CARBONACEOUS	RECOVERED:0.50M.	75	90.00
90.40	91.07	.67	COAL	6	950	53		DULL WITH BRIGHT. MINOR DISSEMINATED PYRITE AT TOP. RUBBLE.		
91.07	91.20	.13	BENT		950	31		QUESTIONABLE BENTONITE.		
91.20	96.20	5.00	COAL	6	950	31		DULL WITH BRIGHT VITRAIN BANDS. RUBBLE.		
96.20	99.85	3.65	SLST					BADLY BROKEN, POLISHED, FAULTED.	10	96.30

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW83D-363

01/03/85

LOG DATE 83/12/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINDR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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										0	96.50
										15	96.70
										20	99.60
99.85	101.66	1.81	COAL	6	951	61			DULL WITH VITRAIN. RUBBLE AND POWDER.		
101.66	116.80	15.14	CLAY					SILTSTONE INTERBEDDED	GREY, THINLY BEDDED; BROKEN CORE; POLISHED FRACTURES	58	101.80
									SEVERAL THIN IRONSTONE BANDS.	18	102.00
										21	103.60
										38	109.10
116.80	116.84	.04	COAL						CRUSHED		
116.84	116.88	.04	BENT						TAN. CRUSHED CORE WITH POLISHED SURFACES.		
116.88	117.65	.77	CLAY						CRUSHED.		
117.65	117.70	.05	COAL						CRUSHED.		
117.70	118.90	1.20	CLAY						CRUSHED		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-363

LOG DATE 83/12/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.R.A.	DEPTH
118.90	120.92	2.02	COAL	2	952	27	MUDSTONE	GOUGE. COAL AND MUDSTONE POWDER; IMPOSSIBLE TO DIFFERENTIATE.		
120.92	121.78	.86	CLAY					NO BEDDING, DARK GREY.		
121.78	122.37	.59	COAL	2	953	39	MDST	COAL AND MDST. GOUGE.		
122.37	123.00	.63	MDST							
123.00	123.77	.77	COAL	2	953	39				
123.77	148.40	24.63	SLST					GREY; WITH MINOR COAL BLEBS. BROKEN WITH POLISHED FRACTURE SURFACES. OCC. IRONSTONE BANDS. POORLY DEVELOPED BEDDING. RARE CALCITE FILLED FRACTURES	69	125.30
148.40	148.40		UNKN					END OF HOLE	71	127.70

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWE3D-364

LOG DATE 83/12/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.E.A.	DEPTH
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.00	9.00	9.00	OB					OVERBURDEN		
9.00	14.52	5.52	SLST							
14.52	15.24	.72	LC					PROBABLY COAL.		
15.24	16.03	.79	CLAY				CARBONACEOUS	BROKEN CORE.		
16.03	16.60	.57	LC					PROBABLY COAL.		
16.60	16.73	.13	CLAY							
16.73	17.00	.27	LC					PROBABLY COAL.		
17.00	20.38	3.38	SLST				SS1	BROKEN STICK CORE.		
20.38	21.24	.86	LC					PROBABLY COAL.		
21.24	23.12	1.88	SS1				ARGILLACEOUS			
23.12	23.52	.40	COAL	2				RECOVERED:0.20M.; CRUSHED CORE		
23.52	26.52	3.00	SS2							

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-364

LOG DATE 83/00/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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26.52	53.64	27.12	SLST			SS1	DARK GREY; MINOR SANDSTONE LENSES. SOME STICK CORE.	80	33.50
53.64	53.76	.12	COAL				CRUSHED. DOES NOT SHOW ON GEOPHYSICAL LOGS. RECOVERED: 0.12M.		
53.76	56.39	2.63	SLST				MAINLY STICK.		
56.39	56.51	.12	COAL				RECOVERED 12CM OF CRUSHED CORE. SEAM DOES NOT APPEAR ON GEOPHYSICAL LOGS		
56.51	108.00	51.49	SLST				MAINLY STICK CORE, POORLY DEVELOPED BEDDING.		
108.00	108.00		UNKN				END OF HOLE.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW63D-365

01/03/85

LOG DATE 83/12/00
 EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LITHOLOGY	REMARKS	C.R.A.	DEPTH
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.00	10.00	10.00	OB						OVERBURDEN		
10.00	75.00	65.00	SLST				SS1		MAINLY BROKEN STICK. THINLY INTERBEDDED.	45	16.50
										50	19.50
										69	25.90
										67	29.60
										69	32.60
										68	35.40
										67	37.80
										64	41.10
										69	44.20
										70	53.90
										62	62.40
										59	68.90
75.00	79.60	4.60	SS1						GREEN. MAINLY STICK CORE. POORLY DEVELOPED BEDDING.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW83D-365

01/03/85

LOG DATE 83/00/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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79.60	79.74	.14	COAL					BROKEN.		
79.74	89.52	9.78	SS1				SILTSTONE INTERBEDDED.	SOME CONVDLUTED BEDDING. BROKEN STICK CORE.	55	81.40
89.52	100.90	11.38	SS1				MINOR SILTSTONE	MAINLY THINLY BEDDED.	53	91.50
									52	98.10
100.90	102.96	2.06	SLST					BADLY BROKEN		
102.96	109.20	6.24	SS1				SILTSTONE BANDING			
109.20	163.37	54.17	SLST				OCCASIONAL SS1 LAYERS	BROKEN STICK, SEVERAL SMALL IRONSTONE BANDS, MINDR CALCITE ALONG SOME FRACTURES. MAINLY THINLY BEDDED.	65	109.70
									54	113.10
									51	115.50
									63	147.20
									54	163.00
163.37	163.37		UNKN					END OF HOLE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HDLE # TW83D-366

LOG DATE 83/12/00
EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	9.10	9.10	OB							
9.10	35.96	26.86	SLST					GREY; BROKEN CORE-UPPER 2 M. APPEARS TO BE LOST. IRONSTONE BAND 15CM THICK CALCITE ALONG SOME FRACTURES. SOME SANDY SECTIONS. POORLY DEVELOPED BEDDING		
35.96	37.06	1.10	SS2					GREY; BROKEN STICK; CALCITE FRACTURE FILLING. COAL TRACES. MASSIVE.		
37.06	37.91	.85	SS1				SILTSTONE	THINLY INTERBEDDED.	68	37.20
									61	37.80
37.91	45.72	7.81	SLST					POORLY DEVELOPED BEDDING, BROKEN STICK.		
45.72	46.82	1.10	SS2							
46.82	58.22	11.40	SS1				SILTY	THIN SILTSTONE BANDS; MINOR IRONSTONE BANDING, BROKEN STICK.	69	48.80
									77	53.90
58.22	59.28	1.06	SLST					MINOR COAL BAND. CALCITE FRACTURE FILLING. BROKEN STICK.		
59.28	59.46	.18	SS1							

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWE3D-366

LOG DATE 83/00/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
59.46	60.77	1.31	SLST					POORLY DEVELOPED BEDDING.		
60.77	69.49	8.72	SS1				SILTY	SOME GOOD STICK CORE.		
69.49	112.10	42.61	SS1				SILTSTONE	SOME SILTSTONE CLASTS; THIN IRONSTONE BANDING	79	108.80
								BEDDING IS GENERALLY POOLY DEVELOPED. SOME THINLY BEDDED SECTIONS	80	111.90
								OCCUR WITHIN THE INTERVAL FROM 106.7 TO 112.1	90	112.00
112.10	113.07	.97	COAL	1	954	62		DULL WITH BRIGHT. PYRITE BAND AT 112.25M. RUBBLE.		
113.07	117.28	4.21	SLST				CARBONACEOUS	DARK GREY, BROKEN, MIDDLE SECTION IS SANDY, SOME POLISHING.		
117.28	118.30	1.02	COAL	1	955	50		DULL WITH VITRAIN. VERY SHALEY; HIGH ASH		
118.30	127.18	8.88	SS1				SILTSTONE	INTERBEDDED. SOME GOOD STICK CORE.	34	125.60
									55	126.80
127.18	128.08	.90	CLAY				COALY	BLACK; BROKEN STICK.		
128.08	129.08	1.00	COAL	1	956	60		VERY HIGH ASH; DULL WITH BRIGHT. BROKEN CORE AND RUBBLE		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW83D-366

01/03/85

LOG DATE 83/12/00
 EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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129.08	139.69	10.61	SLST					VERY SANDY	BROKEN STICK; POORLY DEVELOPED BEDDING; MINOR COAL WISPS MINOR CALCITE FRACTURE FILLING		
139.69	140.10	.41	CLAY					COALY	POLISHED.		
140.10	142.04	1.94	SS2						GREY; MINOR COAL WISPS; SLICKENSIDES.	49	141.50
142.04	151.49	9.45	SLST						DARK GREY, BROKEN.		
151.49	151.49		UNKN						END OF HOLE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-367

LOG DATE 83/00/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	15.20	15.20	OB							
15.20	18.80	3.60	MDST				SILTSTONE	BLACK MUDSTONE GRADES INTO SILTSTONE AT BASE OF UNIT.		
18.80	21.30	2.50	SS1					SALT AND PEPPER, MASSIVE.		
21.30	29.60	8.30	SLST				MUDSTONE	GREY SILTSTONE, GRADES TO GREY BLACK MUDSTONE IN PART OCCASIONAL IRONSTONE NODULE. OCCASIONAL CALCITE FILLED FISSURE.		
29.60	30.50	.90	SS1					GREY; SALT AND PEPPER. ABUNDANCE OF THIN COAL STRINGERS AND BLEBS.	78	30.00
30.50	98.70	68.20	SLST				MUDSTONE	GREY BLACK, WITH OCCASIONAL IRONSTONE NODULES. CALCITE FILLED FRACTURES RARE COAL STRINGERS. HIGH GAMMA COUNT AT 56 M. SOFT SEDIMENT DEFORMATION AND COAL BLEBS OCCUR .5 M BELOW THIS MARKER OCCASIONAL SLICKENSIDES.		
98.70	99.60	.90	SS2					MEDIUM GRAINED SALT AND PEPPER SANDSTONE WITH OCCASIONAL INTERBEDS OF MUDSTONE. SOME CALCITE FILLED FRACTURES. TRACE SLICKENSIDES #1 SEAM IS NOT PRESENT.	62	99.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-367

LOG DATE 83/00/00
 EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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99.60	117.30	17.70	VOLC					RED. OCCASIONAL CALCITE FILLED FRACTURES.		
117.30	117.30		UNKN					END OF HOLE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-368

LOG DATE 83/12/00
EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	9.00	9.00	OB							
9.00	56.20	47.20	SLST					DARK GREY, POORLY DEVELOPED BEDDING, SOME STICK CORE BUT MAINLY BROKEN, SOME CALCITE ALONG FRACTURES.	68	30.80
56.20	60.10	3.90	SS1					MEDIUM GREY, FINING TO SILTSTONE AT BASE; BROKEN; MINOR SILTSTONE CLASTS.		
60.10	67.70	7.60	SLST					DARK GREY. BROKEN CORE.	61	61.00
67.70	74.03	6.33	SS1					MEDIUM GREY, SILTSTONE CLASTS AND BANDS, BROKEN.	69	69.10
									80	73.80
74.03	75.13	1.10	COAL		968	100		DULL WITH VITRAIN BANDS. BROKEN STICK AND RUBBLE		
75.13	81.17	6.04	SLST					COALY AT BASE.	68	76.00
81.17	81.51	.34	COAL		969	78		DULL WITH VITRAIN BANDS. BROKEN STICK CORE.		
81.51	83.38	1.87	SLST					BLACK, COALY, RECOVERED: 0.45M.		
83.38	83.64	.26	COAL					RECOVERED: 0.16M.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-368

LOG DATE 83/00/00
EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLOGY	REMARKS	C.R.A. DEPTH
83.64	87.55	3.91	SLST					BROKEN STICK.	
87.55	87.74	.19	LC					PROBABLY COAL.	
87.74	88.06	.32	SLST						
88.06	88.36	.30	LC					PROBABLY COAL.	
88.36	88.94	.58	SLST						
88.94	89.23	.29	COAL					RECOVERED:0.05M.	
89.23	91.19	1.96	SLST					BADLY BROKEN; SLICKENSIDES; PROBABLE FAULT ZONE.	
91.19	91.70	.51	COAL	1	970	75		DULL. POWDER AND RUBBLE	
91.70	94.30	2.60	SLST				CARBONACEOUS	MINOR SLICKENSIDES.	
94.30	94.52	.22	COAL	1	971	60		DULL WITH VITRAIN. RUBBLE AND POWDER. MINOR SHALE SPLITS; NOT RECOVERED IN COAL	
94.52	94.71	.19	SH						

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW83D-368

01/03/85

LOG DATE 83/12/00
 EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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94.71	95.44	.73	COAL	1	971	60		AS ABOVE		
95.44	95.68	.24	SH							
95.68	96.92	1.24	COAL	1	971	60		AS ABOVE	60	96.00
96.92	97.03	.11	SH							
97.03	97.75	.72	COAL	1	971	60		AS ABOVE		
97.75	112.38	14.63	SLST				SS1	UPPER 40 CM VERY COALY. RARE POLISHED FRACTURE SURFACES.	63	111.00
112.38	113.04	.66	COAL		972	76		RUBBLE AND POWDER. MUDSTONE SPLIT FROM 112.64M.-112.76M.		
113.04	120.39	7.35	SLST				SS1 LAYERS.	UPPER 30 CM VERY COALY, SLICKENSIDED, MINOR CALCITE ALONG FRACTURES.	66	118.00
120.39	120.39		UNKN					END OF HOLE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWE3D-369

LOG DATE 83/00/00
EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	8.23	8.23	OB							
8.23	26.80	18.57	SS1				SLST, MDST	SALT & PEPPER SS1; CONVOLUTED BEDDING; OCCASIONAL CALCITE FILLED FRACTURES OCCASIONAL BROWN IRONSTONE NODULE	68	20.00
26.80	28.30	1.50	MDST				CARBONACEOUS	GREY BLACK, WITH ABDT COAL STRINGERS. OCCASIONAL IRONSTONE NODULES MINOR CALCITE FILLED FRACTURES.	67	28.00
28.30	33.80	5.50	SS1				SLST, MDST	GREY SS1 INTERBEDDED WITH GREY BLACK SLST/MDST. BIOTURBATED IN PART. OCCASIONAL IRONSTONE NODULE. SS1 GREENISH AT BASE OF UNIT	75	31.00
33.80	35.40	1.60	MDST				SS1/SLST	GREY BLACK MUDSTONE INTERBEDDED WITH SLST AND SS1. ABUNDANT COAL STRINGERS AND CLASTS. MUDSTONE RIP UP CLASTS SOMETIMES CONTAINED WITHIN SS1. BEDDING IS CONVOLUTED IN PART. SMALL SCALE NORMAL FAULTS WITH APPROX 5 CM. DISPLACEMENT	76	35.00
35.40	38.42	3.02	SS1				SLST, MDST	GREY SS1 INTERBEDDED WITH BLACK SILTSTONE/MUDSTONE. COAL STRINGERS CALCITE FILLED FRACTURES ABUNDANT IRONSTONE NODULES SOME BIOTURBATION	74 72	35.90 37.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW63D-369

LOG DATE 83/12/00
EXAMINED BY S. CAMERDN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
35.40	38.42	3.02	551				SLST, MDST	BEDDING IS VERY DISTURBED NEAR BASE OF UNIT		
38.42	39.54	1.12	COAL	1	963	67		DULL WITH VITRAIN BANDS. RUBBLE.		
39.54	39.70	.16	MDST							
39.70	39.80	.10	COAL							
39.80	41.04	1.24	MDST				CARBONACEOUS	BLACK WITH COAL STRINGERS. OCC SLICKENSIDES. BEDDING DISTURBED IN PART.	65	40.00
41.04	41.28	.24	COAL							
41.28	42.99	1.71	MDST				CARBONACEOUS	BLACK. COAL STRINGERS.	74	42.00
42.99	44.13	1.14	COAL							
44.13	44.85	.72	MDST				CARBONACEOUS	BLACK WITH COAL STRINGERS.	77	44.50
44.85	45.26	.41	COAL	1	964	80		DULL; VERY HIGH ASH. BROKEN CORE. RUBBLE AND POWDER.		
45.26	46.38	1.12	MDST				CARBONACEOUS	BLACK WITH COAL STRINGERS.	81	46.00
46.38	49.05	2.67	COAL	1	965	73		DULL WITH VITRAIN BANDS.	70	49.10

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW63D-369

01/03/85

LOG DATE 83/12/00
 EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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								BROKEN CORE, RUBBLE AND POWDER		
								MUDSTONE SPLITS AT 47.28M. AND 48.44M.		
49.05	51.10	2.05	MDST				CARBONACEOUS	BLACK, COAL STRINGERS.	77	51.00
51.10	51.60	.50	COAL	1	966	88		DULL WITH VITRAIN BANDS AND CALCITE PARTINGS. BROKEN STICK AND RUBBLE.		
51.60	52.22	.62	MDST				CARBONACEOUS	BLACK, COAL STRINGERS.	79	52.20
52.22	52.50	.28	COAL							
52.50	53.60	1.10	MDST				CARBONACEOUS	BLACK, COAL STRINGERS.	74	53.00
53.60	60.12	6.52	SS1				SLST/MUDSTONE	GREY SANDSTONE INTERBEDDED WITH GREY BLACK SILTSTONE AND MUDSTONE. OCCASIONAL IRONSTONE NODULE. OCCASIONAL COAL STRINGER.	68	57.00
60.12	60.84	.72	MDST				CARBONACEOUS	BLACK WITH COAL STRINGERS. OCCASIONAL CALCITE FILLED FRACTURE.		
60.84	61.55	.71	COAL		967	100		DULL WITH VITRAIN BANDS. BROKEN CORE AND RUBBLE.		
								MUDSTONE SPLIT FROM 61.21M. TO 61.35M.		
61.55	65.88	4.33	SLST				SS1/MUDSTONE	GREY SILTSTONE INTERBEDDED	65	62.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW83D-369

LOG DATE 83/00/00
EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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									WITH SS1 AND GREY-BLACK MUDSTONE. OCCASIONAL CARBONACEOUS FLECKS AND COAL STRINGERS.		
65.88	69.20	3.32	SS1				SS2		GREY BLACK, SALT AND PEPPER, MASSIVE.		
69.20	73.10	3.90	CONG						PEBBLES UP TO 3 CM IN DIAMETER. MOST PEBBLES FROM HAZLETON. OCCASIONAL COAL BLEBS AND STRINGERS.		
73.10	74.70	1.60	SS2				SILTSTONE		GREEN GREY SS2 WITH INTERBEDDED GREY BLACK SILTSTONE. OCCASIONAL THIN CARBONACEOUS SHALE BAND.	69	74.00
74.70	78.30	3.60	CONG						THIS UNIT FINES UPWARDS INTO THE ABOVE UNIT. THE LARGEST PEBBLES (3 CM.) ARE AT THE BASE OF THE UNIT.		
78.30	79.80	1.50	CONG				SS2		FINING UPWARD UNIT FROM CONGLOMERATE TO SS2. MASSIVE.		
79.80	104.24	24.44	SLST				MUDSTONE		GREY BLACK SILTSTONE INTERBEDDED WITH BLACK MUDSTONE. SOME CARBONACEOUS SHALE AND THIN COAL STRINGERS. IRONSTONE BANDS. MASSIVE.		
104.24	107.00	2.76	SLST				SS1/SS2		INTERBEDDED GREY-BLACK SILTSTONE/MUDSTONE AND GREY SS1.	66	106.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW830-369

LOG DATE 83/00/00
EXAMINED BY D. DANDREA

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
104.24	107.00	2.76	SLST				SS1/SS2	ABUNDANT THIN COAL STRINGERS AND BLEBS. GRADES INTO SS2 IN THE BASAL PART OF THE UNIT. (FINING UPWARD CYCLE)		
107.00	107.30	.30	COAL				MUDSTONE	TWO 10 CM. THICK COAL SEAMS SEPARATED BY A 10 CM. MUDSTONE SPLIT.		
107.30	108.80	1.50	SS3				SS2/SS1	UNIT CONSISTS OF SEVERAL FINING UPWARD CYCLES WITH ABUNDANCE OF RIP UP CLASTS IN THE SS1 AND SILTSTONE AT THE TOP OF THE CYCLES.OCCASIONAL THIN COAL STRINGERS CAP THE TOP OF THE CYCLES.UNIT ALSO CONTAINS SMALL COAL BLEBS THROUGHOUT.	67	108.00
108.80	108.80		UNKN					END OF HOLE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-401

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	5.18	5.18	OB					OVERBURDEN.		
5.18	8.23	3.05	MDST					IRON STAINED AT TOP. WEATHERED TO LIGHT GREY. OCC. WISPS OF COAL FRAGMENTS.		
8.23	9.00	.77	MDST					GREY, VAGUE WAVY BEDDING.		
9.00	9.25	.25	SH				COALY	DULL BLACK WITH BRIGHT COALY LAMINAE <1MM THICK.		
9.25	11.72	2.47	MDST					GREY, VAGUE, WAVY BEDDING.	76	9.90
									71	10.70
11.72	12.80	1.08	COAL	1	1004	62		DIRTY AT TOP; GRADATIONAL CONTACT WITH ABOVE UNIT DULL WITH BRIGHT (VITRAIN) BANDS UP TO 2 CM. THICK. CALCITE FILLED CLEAT FRACTURES IN BASAL 5 CM.		
12.80	13.28	.48	MDST					GREY. CORE CONSISTS OF RUBBLE.		
13.28	13.54	.26	COAL	1	1005	100		DULL WITH OCCASIONAL BRIGHT BANDS. TRACE DISSEMINATED PYRITE.		
13.54	13.65	.11	MDST							

TELKWA CORE DESCRIPTION

 DRILL HOLE # TWB4D-401

01/03/85

LOG DATE 84/06/00
 EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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13.65	13.80	.15	COAL			100		DULL WITH BRIGHT VITRAIN BANDS OF VARIABLE THICKNESS (UP TO 0.5CM). CALCITE OCCASIONALLY FILLS CLEAT FRACTURES IN BRIGHT BANDS.		
13.80	16.35	2.55	MDST					GREY WITH VAGUE WAVY BEDDING. BREAKS ALONG BEDDING PLANES AND CRUMBLES INTO SMALL WEDGE SHAPED PIECES.	69	14.80
16.35	16.60	.25	COAL	1	1006	100		GRADATIONAL CONTACT AT TOP. PRIMARILY DULL WITH ABUNDANT CALCITE FILLED MICRO-FRACTURES THROUGHOUT. ORIGINAL BEDDING BADLY DISTURBED. SOME POLISHED FRACTURE SURFACES.		
16.60	16.73	.13	MDST					GREY WITH PYRITE NODULES.		
16.73	16.94	.21	COAL			90		JOINT SURFACES CUT ACROSS CORE AT HIGH ANGLE. DULL WITH OCCASIONAL THICK BRIGHT BANDS IN LOWER PART.		
16.94	17.14	.20	MDST					FRACTURES WITH SLIGHTY POLISHED SURFACES CUT ACROSS CORE AT A HIGH ANGLE GREY WITH HIGHLY POLISHED FRACTURES ALONG BEDDING PLANES. GRADATIONAL INTO COAL BELOW.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-401

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
17.14	17.52	.38	COAL	1	1007	100		RECOVERED .38M OF DULL BANDED COAL. SANDY PYRITE BAND .5CM THICK AT 17.25M. TRACE PYRITE ON CLEAT FRACTURES		
17.52	17.68	.16	MDST		1007	36	CARBONACEOUS	RECOVERED 5 CM.		
17.68	18.60	.92	COAL	1	1007	100		RECOVERED:0.91M OF BROKEN, DULL BANDED COAL. DIRTY AT TOP.		
18.60	18.76	.16	MDST					COAL WISPS. BROKEN STICK.		
18.76	19.38	.62	COAL	1	1007	65		RECOVERED .40M. OF DULL BANDED COAL.		
19.38	19.65	.27	MDST					POSSIBLE BENTONITE LAYER.		
19.65	21.70	2.05	SS					LIGHT GREY, COARSE-MEDIUM GRAINED, FINING UPWARDS. TRACE COAL WISPS AND CARBONACEOUS PLANT FRAGMENTS. DISTURBED BEDDING (WORM CASTS?)	64	20.40
21.70	22.80	1.10	MDST					GREY-DARK GREY; DISAGGREGATED.		
22.80	23.04	.24	COAL		1008	100		DULL BANDED. PYRITE LENSES AT TOP (1MM THICK). DIRTY AT BASE. RECOVERED .24M.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-401

LOG DATE 84/06/00

EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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23.04	23.20	.16	MDST			50	CARBONACEOUS	GRADATIONAL CONTACT. CORED 14CM - RECOVERED 7CM.		
23.20	23.40	.20	COAL			100		RECOVERED: 0.20M. DULL BANDED COAL. THIN FRACTURES INFILLED WITH CALCITE.		
23.40	25.60	2.20	MDST					BLACK. POST DEPOSITONAL SLUMPING. 20CM THICK CARBONACEOUS BAND AT 24.8M.		
25.60	32.20	6.60	SLST				SS	GREY-BROWN. ARGILLACEOUS AT TOP. FINE GRAINED SANDSTONE BEDS. MASSIVE BEDDING. CYCLICAL SANDSTONE/SILTSTONE UNIT.		
32.20	32.80	.60	SS3					LIGHT GREY, SALT & PEPPER. CARBONACEOUS FLECKS/BLEBS.		
32.80	35.22	2.42	MDST					GREY-BLACK. BROKEN STICK. TRACE PLANT FRAGMENTS; VERY CARBONACEOUS AT BASE		
35.22	35.34	.12	COAL		1009	83		DULL-DIRTY WITH OCCASIONAL BRIGHT BANDS. RECOVERED: 0.10M. HW. CONTACT NOT PRESERVED.		
35.34	35.49	.15	MDST				CARBONACEOUS/COALY	BLACK.		
35.49	35.73	.24	CDAL		1009	100	BANDED	RECOVERED: 0.24M. BRIGHT BANDED; DULL AT BASE. FW CONTACT GRADATIONAL	80	35.40

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-401

01/03/85

LOG DATE 84/06/00
 EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLDGY	REMARKS	C.B.A.	DEPTH
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35.49	35.73	.24	COAL		1009	100	BANDED	SEPARATION:- VISUAL:POOR; PHYS:POOR. THIN FRACTURES ARE CALCITE FILLED		
35.73	36.24	.51	MDST					BLACK. CARBONACEOUS AT TOP. BECOMING SILTY AT BASE.		
36.24	37.80	1.56	SLST				SANDY-MUDDY	SANDSTONE-SILTSTONE-MUDSTONE FINING UPWARD CYCLES. BURROWED.		
37.80	40.30	2.50	MDST				SILTY	GREY. SILTY AT TOP. OCCASIONAL SLICKENSIDES ON FRACTURE SURFACES. POSSIBLE SHEAR ZONE AT 40.8M.		
40.30	43.00	2.70	SS1				SILTY	GREY, FREQUENT SILTSTONE INTERBEDS. (CYCLICAL).	60	42.00
43.00	44.10	1.10	SS3					CLEAN, WITH CARBONACEOUS BANDS. GRADATIONAL BASAL CONTACT.		
44.10	46.00	1.90	MDST					GREY. SILTY AT TOP.		
46.00	46.15	.15	MDST				CARBONACEOUS	BLACK. COAL WISPS AND BANDS.		
46.15	46.70	.55	MDST					SILTY AT BASE.		
46.70	49.00	2.30	SS2					GREY. ARG-SILTY IN PART (FINING UPWARD CYCLES). MINOR CARBONACEOUS MAT'L.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW840-401

LDG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
46.70	49.00	2.30	SS2					THIN, DISTURBED BEDDING. WORM CASTS?		
49.00	51.60	2.60	MDST				SILTY	GREY-BLACK.	69	48.00
51.60	51.80	.20	MDST				CARBONACEOUS	BLACK; GRADATIONAL CONTACTS.	64	51.60
51.80	55.20	3.40	SS1					GREY, SILTY-ARGILLACEOUS AT TOP.		
55.20	57.80	2.60	SLST				SANDSTONE	GREY. INTERBEDDED SANDSTONE/SILTSTONE; COARSENING DOWNWARDS. RARE CARBONACEOUS DEBRIS. GRADES TO SANDSTONE AT BASE.	77	57.50
57.80	59.40	1.60	MDST				SILTY	DARK GREY-BLACK; FINING DOWNWARDS. COALY WISPS. THICK CALCITE FILLED FRACTURE AT 58.5M.		
59.40	59.80	.40	MDST				COALY	COALY-CARBONACEOUS. POLISHED FRACTURE SURFACES.		
59.80	61.00	1.20	MDST					DARK GREY-BLACK.		
61.00	66.20	5.20	SLST				SANDY	INTERBEDDED SANDSTONE-SILTSTONE-MUDSTONE. (FINING UPWARD CYCLES)	61	61.70
66.20	66.80	.60	SS							

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-401

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
66.80	76.00	9.20	MDST				SILTY	GREY-BLACK; OCCASIONAL COALY FRAGMENTS/ROOTING. GRADES TO SILTSTONE IN PART		
76.00	76.30	.30	MOST				CARBONACEOUS	ROOTED-VITRAIN LENSES; MASSIVE BEDDING.		
76.30	84.60	8.30	SLST				SANDY	FINING UPWARD SEQUENCE; ARGILLACEOUS AT TOP.		
84.60	86.00	1.40	SS					GREY, FINE-COARSE GRAINED; INTERBEDDED WITH SILTSTONE AT TOP. CLEAN AT BASE (FINING UPWARD CYCLE). MINOR CROSS-BEDDING.	72	85.50
86.00	91.00	5.00	MDST				SILTY	SILTY AT TOP; INTERBEDDED WITH SLST/SANDSTONE; COARSER TOWARD BASE. TRACE COAL		
91.00	92.40	1.40	SS1				SILTY	GREY. FINING UPWARDS.		
92.40	94.40	2.00	SLST					GREY, ARGILLACEOUS	52	93.50
94.40	105.00	10.60	MDST					DARK GREY-BLACK; SILTY AT TOP AND BASE. ROOTED COALY WISPS/LENSES.		
105.00	106.50	1.50	SS1					GREY-BROWN; SILTY AT TOP.		
106.50	113.50	7.00	CONG					VOLCANIC PEBBLES; ANGULAR/SUBROUNDED. BEDS OF FINER GRAIN SIZE OCCUR AS PART OF FINING UPWARD SEQUENCES. OCCASIONAL COAL		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-401

LOG DATE B4/06/00
 EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.R.A.	DEPTH
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113.50	114.90	1.40	SLST					MUDDY	FRAGMENTS. INTERBEDDED SILTSTONE/MUDSTONE.		
114.90	114.90		UNKN						TOTAL DEPTH 114.90M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-402

01/03/85

LOG DATE 84/06/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	10.70	10.70	OB					OVERBURDEN.		
10.70	34.20	23.50	SLST				POLISHED FRACTURES	DARK GREY, MAINLY BROKEN STICK; POORLY DEVELOPED BEDDING; MINOR CALCITE.		
34.20	34.22	.02	CLAY				HIGHLY PYRITIC	GREY, VERY SOFT, PYRITE CRYSTALS.		
34.22	36.78	2.56	SLST					DARK GREY, AS SLST ABOVE.	39	36.40
									34	36.70
36.78	36.81	.03	BENT					LIGHT GREY, SOFT.		
36.81	52.04	15.23	SLST					DARK GREY, SOME GOOD STICK, POORLY DEVELOPED BEDDING.	42	50.50
52.04	52.06	.02	BENT					LIGHT GREY.		
52.06	90.53	38.47	SLST					DARK GREY. MINOR CALCITE. POORLY DEVELOPED BEDDING. BROKEN STICK. RARE MUDSTONE CLASTS.		
90.53	91.10	.57	SS1				COAL TRACES	GREEN, R2.		
91.10	103.30	12.20	SS1				SLST INTERBEDDED	BROKEN, MINOR CALCITE, LIGHT AND DARK GREY.	59	91.40

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW64D-402

LOG DATE 84/06/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
									65	95.10
									54	95.80
									36	96.50
									50	97.00
									53	99.00
103.30	105.50	2.20	SS1					DARK GREEN. MINOR COAL TRACES. MASSIVE. MINOR CALCITE.	50	105.00
105.50	107.89	2.39	SLST				THIN SS1 INTERBEDS	LOWER 10CM COALY.	31	105.90
									53	106.80
107.89	113.40	5.51	CLST				MINOR SS1	SOFT.		
113.40	113.80	.40	COAL		1010	28		VERY DIRTY; PULVERIZED. RECOVERED: 0.11M.		
113.80	116.95	3.15	CLST				MINOR SS1	DARK GREY, CARBONACEOUS.		
116.95	118.05	1.10	COAL		1011	29		PULVERIZED; DIRTY. RECOVERED: 0.32M.		
118.05	124.20	6.15	SS1				SLST INTERBEDDED			

01/03/85

TELKWA CORE DESCRIPTION

DRILL HOLE # TWE4D-402

LOG DATE 84/06/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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124.20	163.68	39.48	SLST						DARK GREY; BROKEN STICK. MINOR COAL TRACES. POORLY DEVELOPED BEDDING. SANDY IN PART. A FEW 10CM THICK IRONSTONE BANDS.		
163.68	163.68		UNKN						TOTAL DEPTH 163.68M.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-403

LOG DATE 84/06/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLOGY	REMARKS	C.P.A.	DEPTH
.00	12.32	12.32	OB					OVERBURDEN		
12.32	13.35	1.03	COAL	7	1012	60	CLEAN			
13.35	32.00	18.65	SLST				SS1	DARK GREY SILTSTONE WITH OCCASIONAL THIN INTERBEDS OF SS1 NEAR BASE OF UNIT OCCASIONAL IRONSTONE NODULES. OCCASIONAL 10 CM BAND OF CARBONACEOUS SHALE. OCCASIONAL CONVOLUTED BEDDING.	73	22.00
32.00	36.06	4.06	SS1				SLST	GRADATIONAL CONTACT WITH ABOVE UNIT. THIN LENTICULAR INTERBEDS	56	33.00
									61	34.00
36.06	37.92	1.86	COAL	6	1013	88				
37.92	38.03	.11	SH		1013	88	COALY			
38.03	38.79	.76	COAL	6	1013	88				
38.79	38.88	.09	MDST		1013	88				
38.88	38.98	.10	COAL	6	1013	88				

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-403

01/03/85

LOG DATE 84/06/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
---	---	---	---	---	---	---	---	---	---	---
38.98	39.21	.23	MDST		1013	88				
39.21	39.37	.16	COAL	6	1013	88	SHALEY			
39.37	39.80	.43	MDST				CARBONACEOUS			
39.80	40.00	.20	COAL	6		72		DULL, HARD		
40.00	45.94	5.94	MDST				CARBONACEOUS	OCCASIONAL THIN COAL BANDS GRADATIONAL CONTACT INTO LIGHT GREY SS1 AT BASE OF UNIT.	73	45.90
45.94	65.00	19.06	SS1				SILTSTONE	LIGHT GREY SS1 THINLY INTERBEDDED WITH DARK GREY SILTSTONE.	68	48.00
								OCCASIONAL COAL STRINGERS. SOME SOFT SEDIMENT DEFORMATION.	58	54.00
								OCCASIONAL IRONSTONE NODULE.	64	64.00
65.00	66.45	1.45	MDST					DARK GREY, CARBONACEOUS. IRONSTONE NODULES.	72	66.00
66.45	68.74	2.29	SS1				SILTSTONE	LIGHT GREY TO GREEN SS1 WITH THIN INTERBEDS OF DARK GREY SILTSTONE		
68.74	70.24	1.50	COAL	2				DULL, HARD.		

TELKWA CDRE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-403

LOG DATE 84/06/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
70.24	70.56	.32	MDST				CARBONACEOUS			
70.56	70.73	.17	COAL	2		60			75	70.56
70.73	79.20	8.47	SS1				SILTSTONE INTERBEDDED	BEDDING IS CONVOLUTED AND NEAR VERTICAL IN PART. ABUNDANT CALCITE FILLED FRACTURES WITHIN IRONSTONE NODULES. OCCASIONAL INTERBEDS OF SALT AND PEPPER SS3.		
79.20	85.60	6.40	MDST					DARK GREY. OCCASIONAL THIN INTERBED OF LIGHT GREY SS1. RARE IRONSTONE NODULE	73	80.00
85.60	85.70	.10	MDST				COALY	BLACK.		
85.70	85.97	.27	COAL			100		DULL. CONTACTS ARE COALY SHALE.		
85.97	88.30	2.33	MDST					OCCASIONAL THIN INTERBEDS OF SS1. OCCASIONAL IRONSTONE NODULES.	73	88.00
88.30	105.70	17.40	SS1				SILTSTONE	THINLY INTERBEDDED SILTSTONE WITH SS1. GRADATIONAL CONTACT WITH ABOVE UNIT. OCCASIONAL IRONSTONE NODULE. OCCASIONAL BAND OF SS2.	70 69	95.00 98.00
									70	103.00
105.70	108.30	2.60	MDST					BLACK, CARBONACEOUS.	67	107.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-403

LDG DATE 84/06/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLOGY	REMARKS	C.B.A.	DEPTH
								OCCASIONAL BAND OF SHALEY COAL.		
108.30	112.40	4.10	SLST				SS1	DARK GREY SILTSTONE WITH THIN INTERBEDS SS1. SOME SOFT SEDIMENT DEFORMATION OCCASIONAL IRONSTONE NODULE.	68	112.00
112.40	157.50	45.10	SLST					DARK GREY, MASSIVE. OCCASIONAL IRONSTONE NODULE. OCC. CALCITE FILLED FRACTURE		
157.50	157.50		UNKN					END OF HOLE.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-404

01/03/85

LOG DATE 84/06/00
 EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHDLGY	REMARKS	C.B.A.	DEPTH
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.00	19.50	19.50	DB					OVERBURDEN. CLAY TILL, PINKISH BROWN WITH PEBBLES, OCCASIONAL BOULDERS.		
19.50	20.95	1.45	COAL					RUBBLE TO POWDER WITH SPLITS.		
20.95	21.20	.25	DB					PEBBLES AND COBBLES.		
21.20	24.40	3.20	COAL					BROKEN STICK AND RUBBLE. YELLOW SULPHUR STAINS. DULL WITH BRIGHT. WEATHERED CARBONACEOUS MUDSTONE. COAL ZONE FROM 19.50M. TO 24.40M. WAS NOT ON BRD LOG; THEREFORE THICKNESS IS APPROXIMATE.		
24.40	26.80	2.40	SLST					MEDIUM GREY; IRON STAINED. CARBONACEOUS. POORLY BEDDED.	80	26.00
26.80	27.65	.85	COAL			33		RUBBLE. ABUNDANT IRON STAINING. DULL WITH BRIGHT.		
								SEPARATION: - HW: GOOD-PHYSICAL: GOOD-VISUAL; FW: GOOD-PHYSICAL: FAIR-VISUAL RECOVERY - 0.28/0.85=33%		
27.65	28.25	.60	MDST					MEDIUM GREY. MINOR SILT. MASSIVE BEDDING.		
28.25	28.35	.10	COAL					RUBBLY.		
28.35	29.25	.90	MDST							

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-404

01/03/85

LOG DATE 84/06/00
 EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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29.25	29.35	.10	COAL					RUBBLE.		
29.35	37.30	7.95	MDST					MEDIUM GREY MASSIVE HIGHLY BROKEN IN TOP METRE AND BROKEN STICK THEREAFTER.	78	32.00
								OCCASIONAL IRONSTONE NODULE. OCCASIONAL CALCITE FILLED FRACTURES.	84	32.50
37.30	37.48	.18	SH				CARBONACEOUS			
37.48	38.36	.88	COAL			100		DULL WITH BRIGHT. BROKEN STICK. NUMEROUS SILTSTONE SPLITS. SEPARATION:- HW:VISUAL-POOR;PHYSICAL-FAIR; FW:VISUAL-GOOD;PHYSICAL-FAIR		
38.36	42.50	4.14	MDST					MINOR SILT. MASSIVE BEDDING. OCCASIONAL CARBONACEOUS WISPS.	75	39.00
								OCCASIONAL BROWN IRONSTONE NODULES.	84	42.00
42.50	43.50	1.00	SS3					MEDIUM GREY, COARSE GRAINED, CARBONACEOUS. COALY VEINLETS.		
								BEDDING POORLY DEVELOPED. COARSENING DOWNWARDS TO THE CONGLOMERATE BELOW.		
43.50	46.98	3.48	CONG					MEDIUM GREY SS MATRIX WITH MULTI-COLOURED PEBBLE CLASTS.		
46.98	47.34	.36	SS2					MEDIUM GREY, CARBONACEOUS LAYERS. GRADES INTO SS3.	85	47.10

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWS4D-404

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LITHOLOGY	REMARKS	C.B.A.	DEPTH
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47.34	48.44	1.10	SS3						LIGHT GREY. RARE CARBONACEOUS LAYERS; COALIFIED TWIGS.		
48.44	49.84	1.40	CONG				SS4		MEDIUM GREY SS MATRIX MULTI-COLOURED PEBBLE CLASTS.		
49.84	51.44	1.60	SS2						MEDIUM GREY. THIN BEDDED. WELL SORTED. RARE CARBONACEOUS MAT'L. COARSENING DOWNWARD INTO CONGLOMERATE BELOW.	80	49.90
51.44	53.14	1.70	SS3					CONGLOMERATE			
53.14	54.56	1.42	CONG						MEDIUM GREY SS MATRIX MULTI-COLOURED PEBBLE CLASTS.		
54.56	54.92	.36	IRST								
54.92	55.15	.23	SH					COALY	MDST WITH THIN BRIGHT COAL STRINGERS.		
55.15	55.65	.50	SLST					MUDSTONE	MEDIUM GREY. MASSIVE.		
55.65	56.40	.75	COAL					SHALEY		85	56.40
56.40	58.36	1.96	MDST					CARBONACEOUS	DARK GREY. OCCASIONAL COAL STRINGER.		
58.36	58.76	.40	SLST					CARBONACEOUS	MEDIUM GREY, MASSIVE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-404

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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58.76	59.76	1.00	SS1					LIGHT GREY, POORLY BEDDED, CARBONACEOUS.		
59.76	65.54	5.78	SLST				CARBONACEOUS	LIGHT GREY. POORLY BEDDED. OCCASIONAL COAL STRINGER.	81	64.00
65.54	66.20	.66	SS1				CARBONACEOUS	LIGHT GREY, POORLY BEDDED.	81	65.80
66.20	74.58	8.38	SLST				CARBONACEOUS	OCCASIONAL BROWN IRONSTONE. GOOD STICK CORE; RUBBLY NEAR BASE OF UNIT.	85	71.58
74.58	96.62	22.04	CONG				SS3	MEDIUM GREY SS MATRIX WITH VOLCANIC PEBBLE CLASTS. SEVERAL COARSENING DOWNWARD CYCLES. OCCASIONAL COAL STRINGERS OR COALIFIED PLANT FRAGMENTS.		
96.62	96.62		UNKN					END OF HOLE.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-405

01/03/85

LOG DATE 84/06/00
 EXAMINED BY D. HANDY

TOP ---	BASE ---	THICKNESS ---	MAJOR ---	SEAM ---	SAMPLE# REC -----	MINOR LITHOLOGY -----	REMARKS -----	C.B.A. -----	DEPTH -----
.00	8.22	6.22	OB				OVERBURDEN.		
8.22	13.20	4.98	SS1			SILTY	SILTSTONE/MUDSTONE INTERBEDS. OCCASIONAL CALCITE FILLED FRACTURES.	75	11.00
							DISTURBED AND SLUMPED BEDDING. (SOFT SEDIMENT DEFORMATION)	72	13.00
13.20	15.50	2.30	SS2				GREY-GREEN, CLEAN. OCCASIONAL CALCITE FILLED FRACTURES.	73	15.50
15.50	23.20	7.70	SS1			SILTY	LIGHT GREY. SS1 INTERBEDDED WITH DARK GREY SILTY MUDSTONE.	70	17.50
							LAYERS VARY IN THICKNESS (<5CM THICK). BEDDING IS SOMEWHAT DISTURBED.	74	20.20
							EVIDENCE OF SLUMPING AND POSSIBLY SOME BIOTURBATION.	80	21.00
23.20	24.00	.80	SLST				GREY, MASSIVE, INCREASING GRAIN SIZE TOWARD BOTTOM OF UNIT.		
24.00	25.60	1.60	SS1				GREY, MASSIVE.		
25.60	47.50	21.90	SLST			SANDY	GREY. INTERBEDS OF FINE GRAINED SANDSTONE. BIOTURBATED IN PART.	64	33.00
							DISTURBED BEDDING. TOWARD BASE; BLACK-DARK GREY MUDSTONE BANDS ALTERNATE	60	40.00
							WITH LIGHT GREY SS1. THERE IS A 30CM THICK CLEAN SANDSTONE	61	47.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-405

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
									BED AT 42.0M. AT 36.0M A SLICKED JOINT INTERSECTS THE CORE AT AN ANGLE OF 15 DEGREES		
47.50	48.50	1.00	SLST					ARGILLACEOUS	SHEARED AND SLICKENSIDED BROKEN CORE.		
48.50	54.00	5.50	SLST						BROKEN SHEARED CORE; SLICKENSIDES COMMON. INTBEDDED SLST/MOST/SS1 CONCRETIONARY ZONE AT 50.2.M. CALCITE FILLED FRACTURES.	36	49.00
54.00	54.60	.60	MOST					SILTY	SHEARED.		
54.60	60.64	6.04	SS1						GREEN. MASSIVE. FAIRLY SOFT. WEATHERED AT TOP (FAULT ZONE?) CALCITE FILLS FRACTURES AND OCCURS OCCASIONALLY ON BEDDING PLANES. TRACE DISSEMINATED PYRITE. WEATHERED ZONE AT 59.5M.		
60.64	61.12	.48	COAL		1016	100			REC. 48CM. BROKEN CORE. DULL WITH RARE BRIGHT BANDS. CALCITE VEINING COMMON CLEAT INFILLING WITH PYRITE; TRACE DISSEMINATED PYRITE. SEPARATION:- HW: VISUAL-GOOD, PHYSICAL-POOR; FW: NOT PRESERVED		
61.12	65.80	4.68	SS1					SILTY	INTERBEDDED LIGHT GREY-GREEN FG SANDSTONE WITH DARK GREY SILTSTONE, DISTURBED BEDDING.	46	62.00
										45	63.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW64D-405

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLOGY	REMARKS	C.B.A.	DEPTH
----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----
									38	65.00
65.80	66.20	.40	SLST					GREY. SLICKENSIDED AND OR POLISHED FRAGMENTS (SHEAR ZONE).		
66.20	67.50	1.30	SS				SILTY	GREY-GREEN, FINE-MEDIUM GRAINED WITH MUDSTONE PARTINGS. DISTURBED BEDDING. JOINT AT 66.5M. INTERSECTS CORE AT 28 DEGREES.	56	67.00
67.50	71.20	3.70	MDST				SILTY	MEDIUM DARK GREY, LAMINATED.		
71.20	72.20	1.00	MDST					SHEARED, SLICKED-POLISHED FRAGMENTS. DISTORTED BEDDING.		
72.20	77.81	5.61	MDST				SILTY	GREY-BLACK; INTERBEDDED WITH THIN SS1 STREAKS. OCCASIONAL CONCRETIONARY BANDS COALY SHALE BAND AT 73.2M. SOME CALCITE FILLED FRACTURES UP TO 6 CM. THICK	71	72.50
77.81	79.68	1.87	COAL		1017	84		DULL AND HARD WITH OCCASIONAL BRIGHT BANDS. GOOD STICK CORE AT TOP. SEPARATION: - HW: PHYSICAL & VISUAL- FAIR.		
79.68	80.04	.36	MDST			50		CORE CONSISTS OF HIGHLY POLISHED MDST FRAGMENTS. (PROBABLE SHEAR ZONE) RECOVERED 0.15M. POSSIBLY SOME COAL IN LOST CORE OF THIS INTERVAL.		
80.04	80.28	.24	COAL			100	DIRTY	VERY DIRTY AT BASE. RECOVERED		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-405

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								0.24M.		
80.28	80.68	.40	MDST				COALY			
80.68	80.84	.16	COAL		100		DIRTY	DULL WITH RARE THIN BRIGHT BANDS. RECOVERED 0.16M. SEPARATION:- HW & FW : PHYSICAL AND VISUAL-FAIR.		
80.84	85.42	4.58	MDST				SILTY	GREY. DARK GREY TOWARD BASE OF INTERVAL. 25CM ZONE OF SHEARED, HIGHLY POLISHED RUBBLE 1.75CM ABOVE BASE OF UNIT.		
85.42	85.94	.52	COAL		1018	100		CONSISTS MAINLY OF HARD, DULL COAL WITH RARE BRIGHT BANDS HW: SHARP CONTACT WITH HIGHLY POLISHED SURFACE AT 62 DEGREES TO CORE FW: GRADATIONAL OVER 10 CM. TRACE DISSEMINATED PYRITE.		
85.94	87.30	1.36	MDST				SILTY	DARK GREY SILTY MUDSTONE INTERBEDDED WITH THIN LIGHT GREY SS1 IN BANDS AND LENSES (1MM-1CM THICK). WAVY, LENTICULAR BEDDING.	70	87.00
87.30	91.80	4.50	SS				SILTY	LIGHT GREENISH GREY	63	87.50

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWE4D-405

LOG DATE 84/06/00
 EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLDG	REMARKS	C.B.A.	DEPTH
								SANDSTONE; FINE-MED. GRAINED. INTERBEDDED WITH SILTSTONE AND SILTY MUDSTONE. SLUMP FEATURES ARE COMMON. OCC. CALCITE FILLED FRACTURES		
91.80	95.64	3.84	SS					LT GREENISH GREY, FINE-MED GRAINED IN CLEAN BEDS UP TO .5M THICK SEPARATED BY INTERBEDS SIMILAR TO ABOVE UNIT.	72	94.50
95.64	96.40	.76	COAL		1019	50		REC .38M. UPPER CONTACT APPEARS TO BE GRADATIONAL. CORE CONSISTS OF DULL COAL RUBBLE; GIVING WAY TO SHEARED, HIGHLY POLISHED MDST OF UNIT BELOW.		
96.40	98.00	1.60	MDST				SILTY	INTERBEDDED SILTY MDST & FINE GRAINED GREENISH GREY SANDSTONE. SLUMP FEATURES ARE COMMON. 2 SHEAR ZONES AT TOP OF UNIT.		
98.00	100.80	2.80	SS					LIGHT GREENISH GREY, FINE-MED GRAINED. CLEAN AT TOP WITH THIN (< 1CM) INTERBEDS OF GREY SILTY MDST INCREASING IN NUMBER TOWARDS BOTTOM OF UNIT	55	98.60
									62	99.50
100.80	107.16	6.36	MDST					GREY SLIGHTLY SILTY WITH OCCASIONAL THIN WISPS OF LIGHT GREY FINE SAND OR SILT. INTERBEDS OF FINE GRAINED SANDSTONE UP TO 1 CM THICK IN BASAL METRE OF UNIT.	58	107.00
107.16	109.88	2.72	COAL		1020	100		DULL & HARD WITH RARE THIN		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW840-405

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.E.A.	DEPTH
								BRIGHT BANDS. 2 CM ZONE OF VOLCANIC ASH? IN COAL AT 109.68M. GOOD STICK CORE. FW CONTACT SHARP. HW CONTACT NOT PRESERVED, NO VISIBLE SPLITS. REC. 100%.		
109.88	115.38	5.50	MDST				SILTY	LIGHT GREY TO GREY. SILTY TO SANDY WITH INTERBEDS (UP TO 1CM THICK) OF FINE GRAINED SAND IN CENTRAL PART OF UNIT.	50	112.50
115.38	115.62	.24	COAL			100		DULL WITH OCCASIONAL THIN BRIGHT BANDS.		
115.62	117.24	1.62	MDST				SILTY	VAGUE BEDDING.		
117.24	119.00	1.76	COAL		1021	85		COAL IS MAINLY DULL WITH SOME VERY THIN BRIGHT BANDS. PYRITE IS RARE OCCURRING AS THIN FRACTURE FILLINGS. OTHER FRACTURES SURFACES ARE POLISHED &/OR SLICKENSIDED. 16CM BAND OF DIRTY COAL AT 117.48M. RECOVERED 1.5M.		
119.00	119.88	.88	SLST				MUDDY	LIGHT GREY, POSSIBLE BENTONITE BAND.		
119.88	121.20	1.32	COAL		1022	76		CORE BROKEN ALONG POLISHED JOINT SURFACES IN FRAGMENTS 5-10CM LONG. REC. 1M. OF DULL COAL WITH RARE BRIGHT BANDS. UPPER CONTACT LOST IN RUBBLE LOWER CONTACT LOST IN RUBBLE		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TWP4D-405

01/03/85

LOG DATE 84/06/00
 EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A. DEPTH
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								OF SHEAR ZONE.	
121.20	121.44	.24	SLST					HIGHLY POLISHED RUBBLE, PROBABLE SHEAR ZONE.	
121.44	121.61	.17	COAL		1022	100		DULL WITH OCCASIONAL BRIGHT BANDS. GRADATIONAL CONTACTS.	
121.61	122.00	.39	MDST				SILTY		
122.00	122.48	.48	COAL		1023	82		DULL COAL; CONSISTING OF BROKEN STICK AND SOME RUBBLE. UPPER CONTACT GRADATIONAL. RECOVERED .40M.	
122.48	123.68	1.20	MDST				SILTY		
123.68	123.96	.28	COAL		1024	100		DULL WITH OCCASIONAL BRIGHT BANDS FORMING HARD STICK CORE. REC. 28CM. CONTACTS NOT PRESERVED.	
123.96	125.60	1.64	MDST				SILTY	GREY WITH OCCASIONAL THIN WAVY STRINGERS OF VERY FINE SAND.	58 125.00
125.60	130.00	4.40	SLST					GREY WITH INTERBEDS OF MDST. SLUMP FEATURES COMMON. OCCASIONAL CALCITE FILLED FRACTURES UP TO 1CM THICK.	
130.00	131.20	1.20	MDST					GREY, SILTY.	

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-405

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
131.20	133.00	1.80	SLST					INTERBEDDED SLST AND MDST SIMILAR TO PREVIOUS SLST UNIT.	26	131.50
133.00	140.40	7.40	SS1					LIGHT GREENISH GREY, FINE GRAINED SANDSTONE WITH THIN INTERBEDS (UP TO 2CM) OF DARK GREY SILTY MUDSTONE GIVING THE CORE A BANDED APPEARANCE.	51	133.50
								OCCASIONAL CM. THICK CALCITE FILLED FRACTURES.	52	136.00
									38	137.00
									48	138.50
									46	139.50
									41	140.20
140.40	142.60	2.20	MDST					DARK GREY TO BLACK. HIGHLY POLISHED FRACTURE SURFACES. UPPER 40CM ARE VERY HARD, WELL CEMENTED. (POSSIBLE SHEAR ZONE)		
142.60	143.65	1.05	MDST				SILTY	DARK GREY WITH THIN LENSES & BANDS OF LIGHTER, VERY FG SAND. CORE SPLITS ALONG POLISHED FRACTURES AND BEDDING PLANES.	60	143.20
143.65	144.29	.64	COAL		1030	50		REC. 32CM OF RUBBLE CONSISTING OF DULL COAL WITH OCCASIONAL BRIGHT BANDS. FRACTURE SURFACES ARE POLISHED. CALCITE FILLS		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-405

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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144.29	145.80	1.51	MDST				SILTY	CLEATS WITHIN BRIGHT BANDS. DARK GREY MUDSTONE WITH THIN INTERBEDS AND LENSES OF LIGHT GREY FINE SAND. 10CM ZONE OF RECRYSTALIZED SHELL FRAGMENTS AT 145.1M.	65	145.20
145.80	150.80	5.00	SS					LIGHT GREENISH GREY, FINE-MED. GRAINED. MASSIVE WITH RARE MDST LAMINAE.	60	148.50
								THIN INTERBEDS OF DARK GREY SILTY MDST IN LOWER PART OF UNIT.	41	150.00
150.80	151.10	.30	COAL					DULL WITH BRIGHT BANDS. 0.5CM THICK LAYER OF DISSEMINATED PYRITE 4CM BELOW UPPER CONTACT OF SEAM.	52	150.84
151.10	155.44	4.34	MDST				SLST	CORE BROKEN ALONG HIGHLY POLISHED FRACTURES & BEDDING PLANES BEDDING IS WAVY AND IRREGULAR.	62	154.20
155.44	158.34	2.90	COAL		1031	100		GRADATIONAL CONTACT WITH ABOVE UNIT. A DISSEMINATED PYRITE BAND (1.5CM) OCCURS WITHIN THIS INTERVAL. COAL IS HARD AND DULL, WITH RARE BRIGHT BANDS. FRACTURES MEASURED AT 52 DEGREES TO CORE ARE POLISHED WITH SLICKENSIDES. COAL IS DIRTY IN LOWER PART OF UNIT. SHEAR ZONE AT 156.6M.	46	155.46
158.34	160.60	2.26	MDST				SLST	LAMINATED MDST AND SILTSTONE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-405

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LITHOLOGY	REMARKS	C.B.A.	DEPTH
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160.60	170.60	10.00	COAL		1032	80			CORE CONSISTS OF 60% RUBBLE WHICH IS HIGHLY POLISHED & 40% STICK CORE COAL IS DULL WITH OCCASIONAL BRIGHT BANDS. SURFACES OF VERTICAL (0 DEGREES) FRACTURES ARE POLISHED. TRACE PYRITE. CONTACTS ARE GRADATIONAL. SPLITS ARE NOT RECOGNIZABLE IN UPPER PART DUE TO SHEARING.		
170.60	173.88	3.28	SLST				SANDY		GREENISH GREY SLST TO FINE GRAINED SANDSTONE WITH SOME INTERBEDS OF DK GREY SILTY MUDSTONE. BEDDING IS WAVY TO DISTURBED. GRAIN SIZE FINES TOWARD BASE OF UNIT; GRADING TO MUDDY SLST ABOVE COAL SEAM BELOW.	40	171.00
										44	172.50
173.88	174.12	.24	COAL		1033	100			CORE IS 75% POWDER. COAL IS DULL, WITH POLISHED, NEAR VERTICAL (87,84 DEGREES) FRACTURES. APPROX. 100% RECOVERY.		
174.12	174.83	.71	MDST				SILTY		GREY. BREAKS EASILY INTO HIGHLY POLISHED IRREGULAR FRAGMENTS.		
174.83	174.99	.16	COAL						DULL.		
174.99	176.20	1.21	MDST				SILTY		GREY. BREAKS ALONG HIGHLY POLISHED BEDDING PLANES.		
176.20	186.10	9.90	SS						LIGHT GREENISH GREY; FINE-MED.	57	177.30

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB40-405

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								GRAINED; WITH THIN INTERBEDS & LENSES (< 1CM THICK) OF DARK GREY SILTY MUDSTONE. LARGE CALCITE FILLED FRACTURES AT TOP OF UNIT.	63	179.00
									68	182.00
									70	183.00
186.10	186.60	.50	MDST				SILTY	DARK GREY WITH THIN LAMINAE OF SILTSTONE.	76	186.50
186.60	186.88	.28	COAL		1034	85		REC 24CM OF DULL TO DIRTY COAL WITH OCCASIONAL BRIGHT BANDS UP TO 2MM THICK UPPER CONTACT NOT PRESERVED. LOWER CONTACT IS GRADATIONAL. CALCITE FILLS CLEAT FRACTURES IN UPPER 5CM.		
186.88	187.72	.84	MDST				SILTY	DARK GREY WITH THIN WISPY LENSES OF LIGHT GREY SLST IN LOWER PART OF UNIT.		
187.72	188.32	.60	CDAL		1035	57		DULL WITH THIN WAVY DIRTY LENSES. BREAKS ALONG HIGHLY POLISHED BEDDING PLANE FRACTURES (63 DEGREES). REC. 34CM BRDKEN STICK CORE: CDNTACTS NOT SEEN		
188.32	188.80	.48	SLST					THIN INTERBEDS OF SILTSTONE AND MUOSTONE.	70	188.80
188.80	190.50	1.70	MDST				SILTY	HIGH ANGLE SLICKENSIDED FRACTURES NEAR BASE OF UNIT.		
190.50	190.72	.22	COAL			100		DULL WITH OCCASIONAL BRIGHT		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-405

01/03/85

LOG DATE 84/06/00
 EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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								BANDS 0.5CM IN THICKNESS. CALCITE FILLED CLEAT FRACTURES COMMON.		
190.72	191.08	.36	MDST					DARK GREY; WITH DISSEMINATED PYRITE LENSES 0.5 CM IN THICKNESS.		
191.08	191.48	.40	COAL		1036	100		DULL AND DIRTY WITH LENSES OF SILTY MUDSTONE AND PYRITE UP TO 0.5CM THICK BRIGHT BANDS 1MM THICK; WITH CALCITE FILLED CLEAT FRACTURES ARE COMMON.		
191.48	192.50	1.02	MDST					DARK GREY.		
192.50	193.56	1.06	COAL		1037	100		PRIMARYLY DULL COAL WITH SOME BRIGHT BANDS IN THE MIDDLE OF THE SEAM. MUDSTONE LENSES AND BANDS. GRADATIONAL UPPER AND LOWER CONTACTS. CALCITE FILLING OF MICRO-FRACTURES AND CLEAT FRACTURES IS COMMON NEAR THE CONTACTS.	64	193.00
193.56	195.44	1.88	MDST				SLST	DARK GREY SILTY WITH SILTSTONE INTERBEDS. SLUMP STRUCTURES COMMON.		
195.44	196.00	.56	COAL		1038	100		GRADATIONAL UPPER CONTACT; WITH A 2CM THICK IRREGULAR LENS OF DISSEMINATED PYRITE. COAL IS DULL WITH OCC. BRIGHT BANDS.		
196.00	196.03	.03	BENT		1038			LIGHT BROWN; WAXY. 3CM THICK.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-405
-----LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LITHOLOGY	REMARKS	C.B.A.	DEPTH
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196.03	196.72	.69	COAL		1038	72			5CM OF DIRTY COAL IN CONTACT WITH BENTONITE ABOVE, REMAINDER OF COAL IS DULL WITH THIN BRIGHT BANDS. REC. 50CM.		
196.72	196.88	.16	SS1				COAL		DARK BROWN INTERMIXED WITH DIRTY COAL GIVING CORE A MOTTLED APPEARANCE.		
196.88	197.76	.88	COAL		1038	68			DULL WITH BRIGHT BANDS UP TO 1CM IN THICKNESS. LOWER CONTACT LOST IN RUBBLE OF SHEARED HIGHLY POLISHED MUDSTONE. RECOVERED: 0.60M.		
197.76	198.34	.58	MDST						DARK GREY WITH HIGHLY POLISHED FRACTURE SURFACES.		
198.34	198.56	.22	COAL		1039	100			DULL WITH THIN BRIGHT BANDS. GRADATIONAL CONTACT AT TOP. VISIBLY SHARP CONTACT AT BASE CONTAINS SMALL LENSES OF SILT.		
198.56	198.80	.24	MDST						DARK GREY.		
198.80	199.76	.96	COAL		1040	100			GOOD STICK CORE. DULL WITH THIN BRIGHT BANDS. THICK (1CM) BRIGHT BANDS NEAR BASE. OCCASIONAL 1-2CM INTERBEDS OF SILT. GRADATIONAL CONTACT AT BASE WITH CALCITE FILLED CLEFT FRACTURES.	67	199.00

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-405

01/03/85

LOG DATE 84/06/00
 EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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199.76	200.10	.34	MDST				CARBONACEOUS	DARK GREY.		
200.10	200.42	.32	COAL		1041	100		GRADATIONAL CONTACT AT TOP. DULL WITH BRIGHT BANDS 2MM-1CM THICK.		
200.42	200.68	.26	MDST					DARK GREY WITH COAL FRAGMENTS.		
200.68	200.86	.18	COAL		1042	100		GRADATIONAL CONTACTS. DULL WITH BRIGHT BANDS. LENS SHAPED MDST FRAGMENTS ARE COMMON. CALCITE FILLED MICRO-FRACTURES & CLEAT FRACTURES ARE COMMON.		
200.86	202.24	1.38	MDST					DARK GREY SLIGHTLY SILTY WITH RARE BRIGHT COAL INCLUSIONS.		
202.24	202.86	.62	COAL		1043	100		IRREGULAR SHARP VISUAL CONTACTS ABOVE & BELOW (POOR MECHANICAL SEPARATION) DULL STICK CORE. CALCITE FILLED MICRO-FRACTURES IN BASAL 5CM OF UNIT.		
202.86	206.52	3.66	MDST				SILTY	DARK GREY WITH THIN LENSES AND INTERBEDS OF SLST. SLUMP STRUCTURES ARE ABUNDANT.	43	204.20
									60	204.40
206.52	207.26	.74	COAL		1044	B2		DULL WITH THIN (1MM THICK) BANDS OF BRIGHT COAL. REC. 0.6M.		
207.26	207.60	.34	MDST					DARK GREY SILTY.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-405
-----LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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207.60	207.72	.12	COAL			100		DULL WITH OCC. THIN STRINGERS OF BRIGHT COAL. CALCITE FILLED MICRO-FRACS		
207.72	235.85	28.13	MDST				SILTY	DARK GREY; MONOTONOUS; WITH RARE IRONSTONE CONCRETIONS.		
235.85	236.22	.37	SS2					LIGHT GREENISH GREY. MASSIVE. SHARP CONTACT WITH DARK MUDSTONE BELOW.	73	236.22
236.22	238.35	2.13	MDST				SILTY	DARK GREY.		
238.35	238.35		UNKN					TOTAL DEPTH 238.35M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-406

LOG DATE 84/06/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	16.10	16.10	OB					OVERBURDEN		
16.10	16.46	.36	SLST					WEATHERED, IRDN STAINING		
16.46	21.70	5.24	SLST				COAL TRACES	DARK GREY. BROKEN STICK. LOWER 20CM COALY.	70	17.10
									80	19.30
21.70	22.91	1.21	COAL		1025	70		BROKEN. RECOVERED: 0.85M.; MAINLY BRIGHT BANDED. UPPER 20CM DIRTY.		
22.91	23.69	.78	SLST							
23.69	24.05	.36	COAL					RECOVERED: 0.04M.		
24.05	24.48	.43	SLST							
24.48	26.52	2.04	COAL		1026	55		RECOVERED: 1.12M., MAINLY BRIGHT BANDED. 10CM SLST BAND 30CM ABOVE BASE		
26.52	26.72	.20	SLST				CARBONACEOUS	RECOVERED: 0.20M.		
26.72	26.88	.16	COAL		1027	100		RECOVERED: 0.16M., BRIGHT BANDED		
26.88	29.63	2.75	SLST					GREY. MINOR COAL TRACES.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-406

LOG DATE 84/06/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								BROKEN STICK.		
29.63	30.28	.65	SS2							
30.28	31.48	1.20	COAL		1028	83		RECOVERED:1.0M.; BROKEN STICK. BRIGHT BANDED.	71	31.40
31.48	31.76	.28	CLST				COALY	BLACK		
31.76	31.90	.14	COAL		1029	43		CRUSHED, RECOVERED:0.06M.		
31.90	47.85	15.95	SLST				POLISHED FRACTURES	DARK GREY. MAINLY BROKEN STICK; SOME CRUSHED SECTIONS. TRACE COAL.	71	39.00
									68	41.70
									77	47.80
47.85	48.95	1.10	SS1							
48.95	52.50	3.55	CONG				COAL TRACES	2-4MM PEBBLES		
52.50	55.50	3.00	SLST						79	55.40
55.50	58.60	3.10	SS1				COAL WISPS	SOME SS3 LAYERS NEAR BASE OF UNIT.		
58.60	59.20	.60	CONG							

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-406

LOG DATE 84/06/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINDR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
59.20	79.30	20.10	SLST					SLICKENSIDE	DARK GREY. STICK AND BROKEN STICK. TRACE COAL.	77	61.40
										70	64.60
										77	77.30
79.30	81.40	2.10	SS1					SILTY	DEPOSITIONAL SLUMPING. BROKEN STICK. COAL TRACES	77	81.00
81.40	82.70	1.30	CONG					COAL WISPS			
82.70	84.12	1.42	SS1						GRAIN SIZE SS2-SS3 TOWARDS BOTTOM, CONVOLUTED BEDDING		
84.12	84.12		UNKN						TOTAL DEPTH 84.12M.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-407

01/03/85

LOG DATE 84/06/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.E.A.	DEPTH
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.00	10.00	10.00	OB					OVERBURDEN		
10.00	25.20	15.20	SLST					LIGHT GREY, MASSIVE		
25.20	36.60	11.40	MDST					BLACK. MASSIVE.		
36.60	40.20	3.60	SLST					LIGHT GREY, MASSIVE. GRADES TO SS1 IN PART.		
40.20	55.40	15.20	MDST					DARK GREY TO BLACK, MASSIVE		
55.40	58.20	2.80	SS1					GREEN. OCCASIONAL COALY BLEB AND CALCITE FILLED FRACTURE.		
58.20	66.40	8.20	SS1				SLST	LIGHT GREY SS1 WITH THIN INTERBEDS OF DARK GREY SLST AND MUDSTONE	66	59.00
									58	63.00
									59	66.00
66.40	84.10	17.70	SLST				SS1	GREY. OCCASIONAL INTERBED OF LIGHT GREY SS1. CONVOLUTED TO WAVY BEDDING.		
84.10	102.00	17.90	SS1				SLST	LIGHT GREY SS1 WITH THIN INTERBEDS OF DARK GREY MUDSTONE AND SILTSTONE, WAVY BEDDING. SOME SOFT SEDIMENT DEFORMATION	73	86.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW64D-407

LOG DATE 84/06/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLOGY	REMARKS	C.B.A.	DEPTH
102.00	116.20	14.20	MDST					DARK GREY, FAIRLY MASSIVE, OCCASIONAL INTERBED OF LIGHT GREY SS1	58	114.00
116.20	121.00	4.80	SS1					GREEN. OCCASIONAL CALCITE FILLED FRACTURE. MASSIVE.		
121.00	122.06	1.06	SS1					LIGHT GREEN. OCCASIONAL INTERBED OF DARK GREY SILTSTONE. WAVY BEDDING.	71	122.00
122.06	124.56	2.50	COAL		69			EXTREMELY BROKEN, RUBBLE TO POWDER		
124.56	125.28	.72	MDST				CARBONACEOUS	BLACK		
125.28	127.40	2.12	COAL		82			RUBBLE TO POWDER		
127.40	128.72	1.32	MDST				CARBONACEOUS	BLACK		
128.72	129.36	.64	COAL		89		RUBBLE			
129.36	129.97	.61	MDST				CARB	BLACK		
129.97	130.42	.45	COAL		77			HARD, DULL		
130.42	135.00	4.58	SLST				SS1	DARK GREY. SLST WITH THIN LENTICULAR INTERBEDS OF LIGHT GREY SS1.	81	131.00
									82	134.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWE 4D-407

LOG DATE 84/06/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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135.00	200.20	65.20	SLST					DARK GREY. MASSIVE. RARE THIN INTERBEDS OF LIGHT GREY SS1. OCCASIONAL IRONSTONE NODULE. GRADATIONAL CONTACT WITH ABOVE UNIT		
200.20	200.20		UNKN					TOTAL DEPTH 200.2M.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-408

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	6.10	6.10	OB						OVERBURDEN		
6.10	8.23	2.13	SLST						MEDIUM GREY. MASSIVE BEDDING.	70	7.00
8.23	11.89	3.66	SS1						LIGHT GREY TO BEIGE. MINOR CARBONACEOUS FRAGMENTS. FAIRLY MASSIVE BEDDING. CALCITE FILLED FRACTURES. BROKEN WITH RUBBLY SECTIONS.		
11.89	16.64	4.75	SLST						MEDIUM GREY. MASSIVE.		
16.64	24.94	8.30	SS1						MEDIUM TO LIGHT GREY. OCCASIONAL THIN CARBONACEOUS LAMINAE & COAL POORLY DEVELOPED BEDDING. CALCITE FILLED FRACTURES	65	21.00
24.94	33.20	8.26	SLST						MEDIUM GREY. MASSIVE BEDDING. STICK CORE.	72	31.00
33.20	34.80	1.60	SS1						LIGHT GREY. THIN WISPY CARBONACEOUS LAMINAE. CALCITE FILLED FRACTURES. GRADES INTO SILTSTONE BELOW		
34.80	47.85	13.05	SLST						MEDIUM GREY. MASSIVE. OCCASIONAL IRONSTONE NODULE.	78	37.20
47.85	63.39	15.54	SS1				SS2		LIGHT GREY. RARE CARBONACEOUS WISPY LAMINAE. OCCASIONAL CALCITE FILLED	75	56.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-408

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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47.85	63.39	15.54	SS1				SS2		FRACTURES. POORLY BEDDED. FAIRLY WELL SORTED. SHELL FRAGMENTS AT 54M.	73	63.00
63.39	66.09	2.70	SS1				SLST		MEDIUM GREY WITH THIN DARK GREY CARBONACEOUS LAMINAE. SHELL FRAGMENTS AT BASE	80	65.00
66.09	67.69	1.60	SS2				SS1		LIGHT GREY. WELL SORTED SS2 WITH OCCASIONAL CARBONACEOUS WISPS. SHELL FRAGMENTS. POORLY DEVELOPED BEDDING.		
67.69	74.04	6.35	SS1				SLST		MEDIUM GREY; WITH THIN DARK GREY SILTSTONE INTERBEDS.	72	70.00
									OCCASIONAL CARBONACEOUS STRINGERS	82	70.50
74.04	74.52	.48	COAL			83			DULL WITH BRIGHT. BROKEN STICK. SEPARATION:- HW FW: PHYSICAL-GOOD;VISUAL-POOR. RECOVERED 48CM.		
74.52	74.98	.46	MDST				CARBONACEOUS		DARK GREY. MASSIVE.		
74.98	75.52	.54	COAL			100			DULL AND BRIGHT, HARD. BROKEN STICK. PYRITIC LENSES AT FOOTWALL RECOVERED 0.54M. SEPARATION:- HW&FW-PHYSICAL:GOOD; VISUAL:POOR		
75.52	78.00	2.48	MDST				CARBONACEOUS		DARK GREY. MASSIVE BEDDING. OCCASIONAL COAL STRINGERS.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HDLE # TW84D-408

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
78.00	78.15	.15	COAL						STRINGER - NO SAMPLE TAKEN		
78.15	84.09	5.94	SLST					MDST	DARK GREY SILTSTONE WITH THIN DARKER MUDSTONE LAMINAE. FAIR TO POORLY DEVELOPED BEDDING. OCCASIONAL COAL STRINGER	78	82.50
84.09	84.39	.30	COAL			65			DIRTY COAL RUBBLE.		
84.39	84.64	.25	COAL			65		SHALEY	RUBBLE		
84.64	85.48	.84	COAL			65			DULL WITH THIN (1-2MM) BRIGHT BANDS. GOOD FW SEPARATION		
85.48	86.54	1.06	MDST						DARK GREY. MASSIVE.		
86.54	86.95	.41	COAL			100			DULL WITH BRIGHT, RECOVERY = 0.41/0.41 = 100%		
86.95	87.71	.76	MDST						DARK GREY. CARBDNACEOUS. MASSIVE.		
87.71	89.58	1.87	COAL			75			BROKEN STICK AND RUBBLE. SHEARED; WITH SLICKENSIDES & CALCITE ON FRACTURES. RECOVERED 1.40M.		
89.58	89.84	.26	SLST					CARBONACEOUS	DARK GREY. MASSIVE BEDDING.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW24D-408

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLDGY	REMARKS	C.B.A.	DEPTH
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89.84	90.41	.57	COAL			100		DULL WITH BRIGHT. STICK CORE. GOOD CLEAT WITH MINOR CALCITE SEPARATION:- HW&FW-GOOD. RECOVERED 0.57M.		
90.41	93.40	2.99	SLST				SS1	DARK TO MEDIUM GREY SILTSTONE WITH SOME SS1 INTERBEDDED. OCCASIONAL CARBONACEOUS AND COALY STRINGER. INCREASINGLY CARBONACEOUS TOWARD BASE.	65	92.00
93.40	94.25	.85	COAL			100		NOT DETAILED ON BRD LOG. DULL WITH THIN BRIGHT BANDS. STICK CORE. SEPARATION:- HW&FW-PODR. CONTACTS ARE GRADATIONAL		
94.25	98.90	4.65	MDST				CARBONACEOUS	DARK GREY. FAIRLY MASSIVE. OCCASIONAL COAL STRINGER.		
98.90	101.68	2.78	SS1				SLST	MEDIUM GREY SS1; WITH THIN DARK GREY SILTSTONE INTERBEDS.	83	99.00
101.68	102.62	.94	COAL			66	SHALEY	STICK CORE. RECOVERY = 0.62/0.94 = 66%. SEPARATION:- HW&FW:GOOD CONTACTS GRADATIONAL		
102.62	106.94	4.32	SLST					MEDIUM TO DARK GREY. MASSIVE. MINOR CARB. GRADES INTO SS1 BELOW.		
106.94	114.90	7.96	SS1				SLST	MEDIUM TO LIGHT GREY SS1; WITH SLST AND CARBONACEOUS LAMINAE.	73	110.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-408

LOG DATE 84/06/00
EXAMINED BY D. HANDY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
114.90	114.90								FAIR BEDDING.		
									TOTAL DEPTH 114.9M.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-409

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	6.10	6.10	OB					OVERBURDEN		
6.10	35.12	29.02	SLST					BROKEN STICK. MINOR SS1 SECTIONS.	69	34.50
35.12	36.22	1.10	COAL	7	1057	100		RECOVERED 1.10M, BROKEN, BRIGHT BANDED.	69	36.10
36.22	41.64	5.42	SLST					THINLY BEDDED WITH SS1. BROKEN STICK. UPPER 20CM COALY.	71	41.00
41.64	41.92	.28	COAL	6				LOST CORE		
41.92	42.15	.23	CLAY					MAJOR IS CLAYSTONE. LOST CORE		
42.15	44.62	2.47	COAL	6	1058	80	POLISHED	RECOVERED 1.98M. BROKEN STICK. BRIGHT BANDED.	71	44.50
44.62	51.92	7.30	SLST				SLICKENSIDED	THINLY BEDDED WITH SS1. BROKEN STICK.	71	47.10
									73	51.80
51.92	53.88	1.96	COAL	5	1059	84		RECOVERED 1.65M. BROKEN STICK. BRIGHT.	68	52.40
53.88	54.26	.38	CLAY					MAJOR IS CLAYSTONE. CRUMBLES ON TOUCH. RECOVERED 0.34M.		
54.26	55.50	1.24	COAL	4	1060	69		RECOVERED 0.85M. BROKEN STICK.	64	55.10

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-409

LOG DATE B4/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								MAINLY BRIGHT COAL.		
									58	59.30
55.50	136.25	80.75	SLST				SLICKENSIDED, POLISHED	MAINLY BROKEN STICK. SOME SECTIONS ARE THINLY BEDDED WITH SS1.	52	61.50
									40	67.10
									31	72.20
									25	76.90
									19	81.00
									0	85.10
									5	89.00
									0	93.40
									0	100.00
									10	106.30
									14	116.30
									15	121.30
									20	130.00

TELKWA CORE DESCRIPTION

DRILL HOLE # TW84D-409

01/03/85

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLOGY	REMARKS	C.B.A.	DEPTH
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136.25	136.25						UNKN			
								TOTAL DEPTH 136.25M.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-410

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
----	----	-----	----	----	-----	----	-----	-----	-----	-----
.00	4.60	4.60	OB					OVERBURDEN		
4.60	5.20	.60	SS1				SILTY	GREY. MASSIVE INDISTINCT BEDDING.		
5.20	12.00	6.80	SLST				SS1	GREY. RARE CALCITE FILLED FRACTURES AT 35 DEG. AND 52 DEG. TO CORE AXIS. INDISTINCT BEDDING.		
12.00	25.30	13.30	SS1					GREY: MOTTLED IN PART (BIOTURBATED?). MASSIVE. IRONSTONE COMMON AS NODULES (1.6CM LONG AXIS) AND ALSO IN BANDS UP TO 4CM THICK WITH ASSOCIATED CALCITE FRACTURE FILLING. RARE SHELL FRAGMENTS.	70	13.50
									43	25.00
25.30	28.10	2.80	MDST				SS1	INTERBEDDED (MM-CM) LIGHT GREY SS1 AND DARK GREY SILTY MUDSTONE. (LENTICULAR BEDDING)	46	25.20
									45	26.90
									60	27.20
									49	27.50
28.10	30.00	1.90	SS1					GREY. VAGUE WAVY BEDDING.		
30.00	31.30	1.30	SS2				SS1	LIGHT GREY. MASSIVE WITH RARE WAVY MUDSTONE LAMINAE.	55	30.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-410

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.E.A.	DEPTH
								GRADATIONAL CONTACTS.	75	31.20
31.30	34.61	3.31	SS1				MUDSTONE	GREY SS1 GRADES DOWN INTO INTERBEDS OF DARK GREY SILTY MUDSTONE (FLASER BEDDING); THEN GRADES INTO CLEANER GREY SS1 NEAR BASE OF UNIT.	75	32.00
									73	33.20
									71	34.60
34.61	34.76	.15	COAL			80		DULL AND BRIGHT. SEPARATION:- HW:VISUAL-GOOD;MECH-POOR. FW:GRADATIONAL		
34.76	35.36	.60	MDST					GREY; WITH RARE BRIGHT COAL FRAGMENTS.		
35.36	35.69	.33	COAL				SHALEY	DULL AND VERY DIRTY WITH GRADATIONAL HW CONTACT.		
35.69	35.82	.13	COAL			1061	100	DULL AND BRIGHT (12CM OF CLEAN COAL). GRADATIONAL FW CONTACT.		
35.82	36.76	.94	MDST					GREY. SLIGHTLY SILTY.		
36.76	37.28	.52	COAL			1062	89	DULL AND BRIGHT (BANDS UP TO 1CM THICK). GOOD MECH. SEPARATION AT CONTACTS		
37.28	41.04	3.76	MDST					GREY. SLIGHTLY SILTY. MASSIVE.	53	39.00
								THIN INTERBEDS OF LIGHT GREY SILTSTONE OCCURS IN BASAL METRE OF UNIT.	50	39.70

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-410

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
37.28	41.04	3.76	MDST					15CM THICK BROWN IRONSTONE WITH CALCITE FILLED FRACTURES AT 37.8M. LARGE IRONSTONE NODULES ARE COMMON.		
41.04	44.24	3.20	COAL	1	1063	78		FIRST 1.5 METRES OF INTERVAL CONSISTS OF COAL RUBBLE WITH HIGHLY POLISHED FRACTURE SURFACES (SHEAR ZONE). REMAINDER OF INTERVAL CONSISTS OF BROKEN STICK CORE. COAL IS DULL WITH OCCASIONAL BRIGHT BANDS LESS THAN 1CM IN THICKNESS. MUDSTONE SPLIT FROM 43.58M.-43.72M.		
44.24	44.90	.66	MDST					GREY. SLIGHTLY SILTY.		
44.90	45.28	.38	SS1				SLST	OCCASIONAL MUDSTONE BANDS. MUCH EVIDENCE OF SOFT SEDIMENT SLUMPING.	76	44.90
45.28	45.68	.40	MDST					GREY. SLIGHTLY SILTY.		
45.68	46.06	.38	MDST				CARBONACEOUS	DARK GREY; WITH ABUNDANT PLANT FRAGMENTS ON BEDDING SURFACES.		
46.06	46.76	.70	COAL	1	1064	100		DULL AND BRIGHT STICK CORE. SEPARATION:- HW:VISUAL-GOOD; MECH-GOOD. FW:GRADATIONAL CONTACT		
46.76	47.20	.44	MDST					GREY. SLIGHTLY SILTY. CARBONACEOUS PLANT FRAGMENTS		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-410

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
								COMMON ON BEDDING SURFACES.		
47.20	47.36	.16	COAL			100		DULL AND BRIGHT BANDED. ABUNDANT CALCITE FILLED FRACTURES IN BASAL 2CM OF INTERVAL		
47.36	50.70	3.34	MDST					DARK GREY, CARBONACEOUS IN UPPER 45CM OF INTERVAL. GREY; SLIGHTLY SILTY	74	49.50
								IN MIDDLE OF INTERVAL. MM INTERBEDS OF SILTSTONE IN LOWER PART OF OF INTERVAL (FINING UPWARD CYCLE)	78	50.60
50.70	51.00	.30	SS1				SLST	LIGHT GREY		
51.00	54.40	3.40	MDST					DARK GREY; WITH RARE COALY FRAGMENTS AND OCCASIONAL SILTSTONE BANDS.	73	52.00
								INCREASINGLY CARBONACEOUS TO COALY AT BASE OF UNIT-GRADATIONAL INTO COAL BELOW. INTERVAL MAY INCLUDE SOME DIRTY COAL LOST IN SHEAR ZONE (54.13M.-54.4M.)	65	52.20
54.40	55.02	.62	COAL		1065	90		DULL WITH BRIGHT BANDS. VERY DIRTY IN PART-(POSSIBLY REPRESENTS 17CM SPLIT AT 54.57M.)		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWE4D-410

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
55.02	65.00	9.98	MDST				SLST		DARK GREY, VAGUE INTERBEDS OF MUDSTONE AND LIGHTER GREY SILTSTONE CARBONACEOUS-COALY PLANT FRAGMENTS COMMON		
65.00	72.50	7.50	SLST				MDST		LIGHT GREY, VAGUE WAVY INTERBEDS AND LENSES OF DARK GREY MUDSTONE	84	67.00
										78	71.00
72.50	72.70	.20	SS1						LIGHT GREY, MASSIVE.		
72.70	75.00	2.30	SLST				MUDSTONE		VAGUE BEDDING. 20CM ZONE OF COALY SHALE AT 74.6M.		
75.00	77.00	2.00	SLST						GREY-LIGHT GREY, OCCASIONAL MUDSTONE LAMINAE. GRADATIONAL CONTACTS.	74	76.80
77.00	77.80	.80	SS2				SS1		LIGHT GREY, MASSIVE. COALY FRAGMENTS COMMON. SHARP CONTACT WITH MUDSTONE BELOW. WIDE (1 CM) CALCITE FILLED FRACTURES (0 AND 20 DEG. TO CORE)		
77.80	84.40	6.60	MDST						DARK GREY MASSIVE WITH RARE COALY FRAGMENTS		
84.40	84.40		UNKN						TOTAL DEPTH 84.4M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-411

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	6.10	6.10	OB					OVERBURDEN		
6.10	17.37	11.27	SS1				SLST THINLY INTERBEDDED	MEDIUM GREY. 70% SS1. BROKEN STICK. OCCASIONAL CALCITE ALONG FRACTURES	70	6.30
									68	12.10
									70	14.50
									67	17.40
17.37	20.80	3.43	SLST				SS1	70% DARK GREY SILTSTONE; THINLY INTERBEDDED WITH MED GREY SS1. TRACE COAL.	59	19.10
									75	20.00
20.80	22.20	1.40	COAL		1103	79		BROKEN. BRIGHT. RECOVERED 1.10M. 5CM CLAYSTONE BAND AT 21.96M	63	21.30
									71	23.00
22.20	27.64	5.44	SLST				SS1	DARK GREY SILTSTONE THINLY INTERBEDDED WITH GREY SS1. MINOR DEPOSITIONAL SLUMPING. LENTICULAR-IRREGULAR BEDDING. BROKEN STICK.	72	25.10
									76	26.90
									74	28.40
27.64	29.90	2.26	COAL		1104	93		STICK AND BROKEN STICK. 3CM SILTY BAND AT 28.48M. MAINLY BRIGHT WITH	73	29.80

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-411

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
27.64	29.90	2.26	COAL		1104	93		THIN VITRAIN BANDING THROUGHOUT. RECOVERED 2.10M.	71	30.50
									76	32.40
29.90	37.65	7.75	SLST				SS1	60% DARK GREY SILTSTONE. GREY SS1 LAMINAE. BROKEN STICK. 4CM THICK COAL STRINGER AT 33.0M.	74	34.70
37.65	38.67	1.02	COAL		1105	29		BADLY BROKEN. RECOVERED 0.30M.; MAINLY BRIGHT.		
38.67	39.42	.75	SLST					DARK GREY. COAL TRACES. POORLY DEVELOPED BEDDING.		
39.42	39.58	.16	COAL		1106	100		RECOVERED 0.15M.; SEMI-LUSTROUS.		
39.58	39.88	.30	SLST							
39.88	40.16	.28	IRST					TAN. HARD.		
40.16	41.56	1.40	SLST					DARK GREY. MASSIVE.		
41.56	42.17	.61	COAL		1107	90		RECOVERED 0.55M. BROKEN CORE. MAINLY BRIGHT.	70	41.90
42.17	47.67	5.50	SS1				SLST	CONVOLUTED BEDDING. 50% SILTSTONE INTERBEDDED.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-411

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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47.67	48.30	.63	COAL		1108	71		RECOVERED 0.45M. SEMI-LUSTROUS. BROKEN CORE.		
48.30	48.70	.40	SLST							
48.70	49.44	.74	SS1				SLST		49	49.40
49.44	49.56	.12	COAL					LOST CORE		
49.56	49.70	.14	CLAY					LOST CORE		
49.70	49.87	.17	COAL		1109	88		RECOVERED 0.15M.		
49.87	51.46	1.59	SLST				MINOR SS1, CARBONACOUS	DARK GREY. SMALL PYRITIC BLEBS.	39	51.20
51.46	52.56	1.10	COAL		1110	91		RECOVERED 1.0M. BROKEN CORE. BRIGHT VITRAIN BANDING. FEW THIN <2CM SILTSTONE BANDS	46	51.60
52.56	52.79	.23	SLST							
52.79	52.90	.11	COAL		1111	82		RECOVERED 0.09M. CRUSHED CORE.		
52.90	53.13	.23	SLST							

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWE4D-411
-----LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
53.13	54.22	1.09	COAL						LOST CORE		
54.22	55.34	1.12	SLST								
55.34	55.52	.18	COAL						LOST CORE		
55.52	56.50	.98	SLST					PDLISHED FRACTURES	DARK GREY		
56.50	56.90	.40	COAL						LOST CORE		
56.90	57.70	.80	SLST						DARK GREY		
57.70	58.10	.40	COAL		1112	20			RECOVERED 0.08M. CRUSHED CORE.		
58.10	59.50	1.40	SLST					POLISHED FRACTURES	DARK GREY. MASSIVE.		
59.50	59.95	.45	COAL		1113	24			CRUSHED CORE. RECOVERED 0.11M.		
59.95	63.03	3.08	SLST						DARK GREY. MASSIVE.		
63.03	68.50	5.47	SLST					SS1	DARK GREY SILTSTONE; GREY SS1 THINLY INTERBEDDED. 6	16	64.20

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-411

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
								IRONSTONE BANDS <10CM	54	65.50
68.50	74.68	6.18	SLST					MAINLY MASSIVE WITH OCCASIONAL THIN SS1 LAYER. SEVERAL IRONSTONE BANDS <10CM. THICK.	50	71.00
74.68	74.68		UNKN					TOTAL DEPTH 74.68M.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-412

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	7.54	7.54	OB					OVERBURDEN		
7.54	9.13	1.59	COAL	1	1077	40		CORE CONSISTS OF RUBBLE AND BROKEN STICK. DULL AND BRIGHT COAL. RECOVERED 64CM. FW-CONTACT GRADATIONAL. THIN CALCITE FILLED FRACTURES COMMON IN LOWER PART OF UNIT.		
9.13	10.92	1.79	SLST					GREY. WAVY BEDDING. GRADES TO SILTY MUDSTONE AT BASE OF INTERVAL.	90	10.40
10.92	11.00	.08	COAL					DULL AND DIRTY WITH BRIGHT BANDS		
11.00	11.12	.12	MDST					DARK GREY		
11.12	12.10	.98	COAL	1	1078	100		MAINLY DULL WITH BRIGHT BANDS <1CM THICK. DIRTY WITH FEWER VITRAIN BANDS IN BASAL 18CM OF UNIT. GOOD MECHANICAL SEPARATION AT FW. AND HW.		
12.10	12.58	.48	MDST					GREY. SILTY.		
12.58	13.20	.62	MDST				CARBONACEOUS	DARK GREY. INCREASINGLY CARBONACEOUS DOWNWARD. BRIGHT COAL BANDS COMMON IN BASAL 20CM OF UNIT.		
13.20	14.00	.80	MDST				SLST	CARBONACEOUS IN PART WITH		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-412

LDG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								OCCASIONAL BRIGHT COALY BANDS AND LENSES		
14.00	21.91	7.91	SLST					GREY. INTERBEDDED WITH SILTY MUDSTONE TOWARDS BASE OF UNIT	64	17.00
								2 THIN (8-10CM) COALY BANDS ARE PRESENT IN THIS UNIT	69	18.50
21.91	22.88	.97	COAL		1079	80		DULL AND DIRTY WITH BRIGHT BANDS. RECOVERED 78CM		
22.88	24.10	1.22	MDST				CARBONACEOUS	DARK GREY; WITH THIN SILT STRINGERS AND LENSES.	81	23.40
24.10	26.90	2.80	SS1					LIGHT GREY; WITH OCCASIONAL CM INTERBEDS OF DARK GREY SILTY MUDSTONE.	70	24.40
									72	25.60
									78	26.60
26.90	28.80	1.90	SLST					GREY-DARK GREY. VAGUE WAVY BEDDING.		
28.80	30.60	1.80	MDST				SILTSTONE	DARK GREY; CARBONACEOUS NEAR TOP. SILTY TOWARDS BASE.		
30.60	32.20	1.60	SS1					LIGHT GREY. 11CM OF SS2 NEAR BASE.	74	31.80
32.20	33.00	.80	SLST					SANDY TOWARD BASE OF UNIT	72	32.80
33.00	33.80	.80	MDST					CARBONACEOUS TO COALY IN		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-412

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LITHOLOGY	REMARKS	C.B.A.	DEPTH
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									MIDDLE OF UNIT. GRADATIONAL WITH UNITS ABOVE AND BELOW.		
33.80	35.30	1.50	SS1						GREY. SMALL COALY FRAGMENTS COMMON. GRADATIONAL CONTACT WITH UNIT BELOW.	75	34.00
35.30	40.50	5.20	SLST				MUDSTONE		CM INTERBEDS OF GREY SILTSTONE AND DARKER SILTY MUDSTONE.	80	35.80
									MUDSTONE COMPONENT INCREASES WITH DEPTH. COALY FRAGMENTS COMMON IN LOWER PART OF INTERVAL	82	37.20
										87	38.30
40.50	41.20	.70	MDST				COAL		DARK GREY. VERY CARBONACEOUS. INCLUDES 10CM THICK CLEAN BANDED COAL AND 15CM OF DIRTY COAL		
41.20	43.00	1.80	SLST						CM INTERBEDS OF DARK GREY SILTY MUDSTONE COMMON	78	41.50
										76	41.90
43.00	45.20	2.20	MDST				SLST		DARK GREY. CARBONACEOUS TO COALY ZONE 20 CM THICK AT 44.2M.		
45.20	46.20	1.00	SLST						WAVY INTERBEDS OF MUDSTONE.	75	46.00
46.20	47.80	1.60	SS2						LIGHT GREY		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-412

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
47.80	50.90	3.10	MDST						DARK GREY, MASSIVE.		
50.90	50.90		UNKN						TOTAL DEPTH 50.9M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-413

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	.80	.80	OB					FIRST METRE OF CORE CONTAINS MIXTURE OF CLAY WITH PEBBLES; FOLLOWED BY BROKEN PIECES OF SILTSTONE AND ENDING WITH A SMALL AMOUNT OF COAL.		
.80	1.70	.90	COAL					DRILLED WITH TRICONE BIT - NO RECOVERY.		
1.70	2.30	.60	SLST					GREY.		
2.30	3.00	.70	COAL		1114	50		DULL AND BRIGHT BANDED. GOOD STICK CORE. RECOVERED 36CM		
3.00	17.10	14.10	SLST ¹					THIN (< 1CM) BANDS OF DARK GREY SILTY MUDSTONE COMMON GIVING CORE BANDED APPEARANCE, IN PART.	82	4.40
									75	6.00
									69	9.00
									69	15.30
17.10	18.08	.98	COAL	3		15		RECOVERED 15CM OF DULL AND BANDED COAL WITH POLISHED FRACTURE SURFACES		
18.08	18.24	.16	SLST				BENT	BROKEN WITH POLISHED AND WAXY FRACTURE SURFACES		
18.24	19.80	1.56	COAL	3	1115	100		DULL AND BANDED COAL CONSISTING OF BROKEN STICK CORE AND POWDER. GOOD MECHANICAL SEPARATION AT		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-413

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								THE FOOTWALL AND HANGING WALL CONTACTS.		
19.80	23.11	3.31	SLST					HIGHLY POLISHED BEDDING PLANE FRACTURES	50	20.70
23.11	23.80	.69	COAL	2	1116	100		DULL WITH THIN IRREGULAR CALCITE FILLED FRACTURES. CORE COMPOSED OF OF BROKEN STICK. GOOD MECHANICAL SEPARATION AT FW. & HW.		
23.80	30.70	6.90	SLST					BROWNISH GREY. BIOTURBATED IN PART.		
30.70	31.20	.50	SS1					LIGHT GREY. MASSIVE. SHARP CONTACT WITH SILTSTONE BELOW.	70	31.20
31.20	49.80	18.60	SLST					BROWNISH GREY		
49.80	51.20	1.40	SLST				CALCAREOUS	CORE HAS MOTTLED APPEARANCE DUE TO BURROWING. SHELL FRAGMENTS (PELECYPODS) ARE COMMON.		
51.20	74.40	23.20	SLST					BROWNISH GREY, WITH RARE MOTTLING. MASSIVE WITH NO DISTINCT BEDDING.		
74.40	79.80	5.40	SS1				SILTSTONE	MAINLY LIGHT GREY FINE GRAINED SANDSTONE GRADING TO SILTSTONE.	63	74.80
									66	75.30
									69	79.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWI 4D-413

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TDP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
79.80	95.50	15.70	SLST						BROWNISH GREY. SANDY IN PART. RARE DARK BANDS OF MORE SHALY MATERIAL.	64	86.00
95.50	96.20	.70	SS2						LIGHT GREY. MASSIVE.		
96.20	105.70	9.50	SLST						LIGHT BROWNISH GREY; WITH RARE DARK BANDS < 1CM THICK.	70	98.60
										69	99.70
										70	104.00
105.70	105.70		UNKN						TOTAL DEPTH 105.7M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-414

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	12.91	12.91	OB					OVERBURDEN		
12.91	23.00	10.09	SLST					GREY, SANDY IN PART. RARE LARGE (4CM DIAMETER) IRONSTONE CONCRETIONS.		
23.00	25.40	2.40	SS1					GREY SILTY IN PART WITH THIN DARK GREY MUDSTONE LAMINAE COMMON IN CENTRAL PART OF UNIT. EVIDENCE OF SLUMPING AND SOFT SEDIMENT DEFORMATION.	78	24.50
25.40	26.00	.60	SLST					GREY, SANDY.		
26.00	26.90	.90	SS1				SILTY	GREY, RARE DARK GREY SILTY MUDSTONE BANDS.	87	26.10
26.90	29.80	2.90	SLST				MUDSTONE	INTERBEDDED GREY SILTSTONE AND DARKER GREY SILTY MUDSTONE. BEDDING IS VAGUE; DISCONTINUOUS AND MOTTLED IN PART. (BIOTURBATED?)		
29.80	30.30	.50	SS1					GREY, MASSIVE; WITH LARGE CALCITE FILLED FRACTURES.		
30.30	46.10	15.80	SS1				SILTSTONE	GREY; FINE GRAINED SANDSTONE-SILTSTONE. BIOTURBATED IN PART.	60	35.00
									71	36.90
									66	45.80
46.10	50.00	3.90	MDST				SILTSTONE	DARK GREY; SILTY MUDSTONE	62	46.50

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-414

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								INTERBEDDED WITH LIGHT GREY SILTSTONE; GIVING CORE BANDED APPEARANCE IN PART. (BANDS <CM THICK)	58	49.90
50.00	50.20	.20	SS2					GREY. MASSIVE; WITH THIN MUDSTONE STRINGERS. SHARP CONTACT WITH UNIT BELOW.	59	50.10
50.20	50.80	.60	MDST				CARBONACEOUS	BLACK		
50.80	51.20	.40	SLST				MUDSTONE	CM INTERBEDS. BANDED APPEARANCE.	65	50.90
51.20	52.15	.95	MDST					UPPER HALF OF UNIT CONSISTS OF RUBBLE WITH POLISHED FRACTURE SURFACES. LOWER PART OF UNIT IS CARBONACEOUS, TRACE PYRITE.		
52.15	52.20	.05	COAL					DULL		
52.20	53.80	1.60	MDST					DARK GREY; SILTY.		
53.80	53.90	.10	COAL					DULL WITH RARE BRIGHT BANDS. DIRTY IN PART. CALCITE FILLED FRACTURES COMMON		
53.90	55.46	1.56	SLST					GREY. VAGUE BEDDING. 3CM THICK CALCITE FILLED FRACTURE AT 55.24M. INTERSECTS CORE AT AN ANGLE OF 39 DEGREES.		
55.46	56.90	1.44	COAL	1	1100	45		RECOVERED 64CM OF POWDER AND		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWE4D-414

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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								BROKEN STICK CORE COMPOSED MAINLY OF DULL COAL		
56.90	58.44	1.54	MDST					VERY SILTY		
58.44	59.44	1.00	COAL	1	1101	100		GOOD STICK CORE COMPOSED OF DULL COAL. GOOD VISUAL AND MECH. SEPARATION AT HW CONTACT, GOOD MECH. SEPARATION AT FW CONTACT. IRREGULAR SILT BAND FROM 58.83M. - 58.96M.		
59.44	59.78	.34	SLST					GREY. POOR RECOVERY: EXACT CONTACT WITH COAL BELOW DIFFICULT TO TO DETERMINE DUE TO LOST CORE		
59.78	59.95	.17	COAL	1	1102	100		RECOVERED 17CM OF RUBBLE COMPOSED OF DULL TO DIRTY COAL. FRACTURE SURFACES ARE POLISHED		
59.95	62.60	2.65	MDST					FIRST 1.5 METRES OF CORE CONSISTS OF RUBBLE WITH POLISHED FRACTURE SURFACES (SHEAR ZONE). 10CM COAL AT APPROX. 60.4M. 15CM COALY ZONE AT 61.4M. INCREASINGLY SILTY TOWARD BOTTOM OF UNIT.		
62.60	71.00	8.40	SLST					GREY. SANDY IN PART.		
71.00	71.30	.30	COAL					DULL WITH POLISHED FRACTURE		

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DRILL HOLE # TW84D-414

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.P.A.	DEPTH
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									SURFACES		
71.30	73.20	1.90	MDST						DARK GREY; SILTY. SHEAR ZONE OF POLISHED FRAGMENTS BELOW COAL.		
73.20	81.80	8.60	SS1				SILTSTONE		LIGHT GREY. MASSIVE. WIDE CALCITE FILLED FRACTURES COMMON.		
81.80	82.40	.60	SLST						GREY TO DARK GREY. GRADING TO CARBONACEOUS MUDSTONE TOWARDS BOTTOM OF UNIT; WHERE CORE IS BROKEN ALONG POLISHED FRACTURE SURFACES.		
82.40	82.60	.20	COAL						DULL WITH POLISHED FRACTURE SURFACES		
82.60	91.00	8.40	SLST						DARK GREY; ARGILLACEOUS. CARBONACEOUS IN PART.		
91.00	102.70	11.70	SLST						GREY TO LIGHT GREY. GRADES TO SANDSTONE IN PART.	76	93.20
										79	99.20
102.70	102.70		UNKN						TOTAL DEPTH 102.7M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWE4D-415

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	6.90	6.90	OB					OVERBURDEN		
6.90	11.70	4.80	MDST					GREY; SLIGHTLY SILTY. VERY SOFT 8CM OF COAL AT APPROX. 8.0M.		
11.70	12.20	.50	SS1					LIGHT GREY. HARD. ABUNDANT CALCITE FILLED FRACTURES.		
12.20	13.76	1.56	SLST				MUDSTONE	(MM-CM) INTERBEDS	65	12.30
13.76	15.63	1.87	COAL	2	1091	88		RECOVERED 1.64M. BROKEN STICK CORE; MAINLY DULL WITH THIN BRIGHT BANDS. THIN CALCITE FILLED FRACTURES COMMON IN LAST 10CM OF UNIT		
15.63	24.40	8.77	MDST				SILTY	DARK GREY; WITH THIN LENSES AND BANDS OF LIGHT GREY SILTSTONE. OCCASIONAL THIN BEDS (<10 CM) OF BROWNISH GREY, FINE GRAINED SANDSTONE.	50	16.00
									51	17.40
									59	19.00
									64	22.00
									65	23.00
24.40	41.25	16.85	SLST					BROWNISH GREY. MASSIVE TO VAGUELY BEDDED.		
41.25	42.20	.95	SS1					LIGHT GREY; CLEAN. MASSIVE;		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-415

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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42.20	72.00	29.80	SLST						WITH VERTICAL CALCITE FILLED FRACTURES.		
									BROWNISH GREY		
72.00	72.00		UNKN						TOTAL DEPTH 72.0M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-416

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	37.20	37.20	OB					OVERBURDEN		
37.20	37.30	.10	OB					CORED BOULDER		
37.30	40.70	3.40	SLST					DARK GREY. BROKEN STICK. MINOR COAL TRACES.		
40.70	40.80	.10	COAL					BRIGHT. CALCITE COMMON.		
40.80	45.78	4.98	SLST					DARK GREY. BEDDING IS MAINLY POORLY DEVELOPED. COAL TRACES. BROKEN STICK. IRONSTONE BAND.	70	44.30
45.78	49.00	3.22	COAL	1	1117	26		RECOVERED 0.87M. MAINLY CLEAN WITH VITRAIN BANDING. RECOVERED ONLY FRAGMENTS OF CLAYSTONE SPLIT (46.58M.-46.74M.) RECOVERED 6CM OF CLAYSTONE BAND (48.4M.-48.54M.)		
49.00	50.60	1.60	SLST					R2-R3. COAL TRACES THROUGHOUT. MASSIVE. BROKEN STICK.		
50.60	51.40	.80	COAL	1	1118	100		RECOVERED 0.80M. BRDKN STICK. BRIGHT VITRAIN BANDING THROUGHOUT.	74	51.10
51.40	51.94	.54	CLAY					MAJOR-CLAYSTONE. DARK GREY. R1.		

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01/03/85

DRILL HOLE # TWB4D-416

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
51.94	52.04	.10	COAL					MAINLY BRIGHT. RECOVERED 0.10M.		
52.04	53.04	1.00	CLAY				CARBONACEOUS	MAJOR-CLAYSTONE. BLACK. MASSIVE.		
53.04	53.16	.12	COAL					RECOVERED 0.08M.		
53.16	58.20	5.04	SLST					BLACK; CARBONACEOUS. R-1. BROKEN STICK.	71	55.90
58.20	60.35	2.15	SLST					GREY-TAN; NON CALCAREOUS.	77	60.10
60.35	60.94	.59	SLST					BLACK		
60.94	61.80	.86	COAL			70		RECOVERED 60CM BROKEN CORE; CONSISTING OF HIGH ASH, DULL COAL.		
61.80	70.60	8.80	SLST				SANDY	DARK GREY. COAL TRACES. POORLY DEVELOPED BEDDING. BROKEN STICK.		
70.60	70.80	.20	COAL		1120	100		BRIGHT CLEAN. RECOVERED 0.20M.		
70.80	77.90	7.10	SLST					MAINLY DARK GREY. SOME COALY SECTIONS. POORLY DEVELOPED BEDDING. RARE IRONSTONE BANDS. BROKEN STICK.	76	76.00
77.90	79.50	1.60	SS1					GREY. BROKEN STICK. COAL	76	79.10

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 DRILL HDLE # TW84D-416

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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79.50	83.30	3.80	SS2					TRACES. COARSENS TOWARD BASE.		
83.30	84.12	.82	CONG					GREY. GRADES TO SS3 TOWARDS BASE. RARE COAL BLEBS.	75	82.40
84.12	84.12		UNKN					TOTAL DEPTH 84.12M.		

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DRILL HOLE # TWB4D-417

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	9.93	9.93	OB					OVERBURDEN		
9.93	10.48	.55	COAL	6				NOT CORED		
10.48	11.20	.72	SLST					NOT CORED		
11.20	13.80	2.60	SLST				POLISHED FRACTURES	BROKEN STICK. THINLY BEDDED.	79	12.70
13.80	15.92	2.12	COAL	6	1092	61		RECOVERED 1.30M BROKEN CORE. 2CM SS1 BAND APPROX. 30CM FROM BASE OF UNIT. MINOR CALCITE ALONG FRACTURES.		
15.92	19.11	3.19	SLST					DARK GREY. CARBONACEOUS TOWARDS BASE. FRIABLE. POORLY DEVELOPED BEDDING.		
19.11	21.48	2.37	COAL	6	1093	76		RECOVERED 1.80M. BROKEN CORE; MAINLY BRIGHT.	81	21.10
21.48	34.92	13.44	SLST				SS1	ARGILLACEOUS; WITH SS1 INTERBEDS. BROKEN STICK.	81	22.00
									63	29.10
									63	30.20
34.92	35.32	.40	COAL	3	1094	83		BADLY BROKEN. MAINLY BRIGHT. RECOVERED 0.33M.		

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01/03/85

DRILL HOLE # TW84D-417

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A. DEPTH
35.32	35.99	.67	CLAY					MAJOR=CLAYSTONE. DARK GREY; CARBONACEOUS.	
35.99	36.92	.93	COAL	3	1095	81		BADLY BROKEN; RECOVERED 0.75M.	
36.92	37.28	.36	CLAY					DARK GREY	
37.28	37.61	.33	COAL	3	1096	42		CRUSHED; RECOVERED 0.14M.	
37.61	37.78	.17	CLAY					LOST CORE.	
37.78	38.08	.30	COAL	3				LOST CORE	
38.08	40.50	2.42	CLAY					MAJOR=CLAYSTONE. GREY-DARK GREY. BADLY BROKEN. CARBONACEOUS.	
40.50	42.20	1.70	COAL	3	1097	53		BADLY BROKEN; RECOVERED 0.90M. 2CM CLAYSTONE SPLIT. MINOR CALCITE ALONG FRACTURES.	
42.20	42.62	.42	CLAY					MAJOR-CLAYSTONE	
42.62	43.16	.54	COAL	2	1098	28		CRUSHED; RECOVERED 0.15M.	
43.16	44.24	1.08	SLST					GREY. NO VISIBLE BEDDING.	

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01/03/85

DRILL HOLE # TW84D-417

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
44.24	45.24	1.00	COAL	2	1099	80		BADLY BROKEN. RECOVERED 0.80M. MAINLY BRIGHT		
45.24	60.00	14.76	SLST				SS1	DARK GREY; WITH GREY SS1 THINLY INTERBEDDED.	80	46.00
									81	53.00
									80	59.00
60.00	79.10	19.10	SLST					FRIABLE. MAINLY POORLY DEVELOPED BEDDING.		
79.10	79.70	.60	SS1					GREY. R2-R3.		
79.70	90.53	10.83	SLST					GREY. R2-R3. RARE IRONSTONE BANDS.		
90.53	90.53		UNKN					TOTAL DEPTH 90.53M.		

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01/03/85

DRILL HOLE # TW84D-418

LOG DATE 84/07/00
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TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	6.71	6.71	OB							
6.71	8.96	2.25	SLST				SS1	THINLY INTERBEDDED.	65	7.00
									85	8.50
8.96	9.78	.82	COAL	9	1066	79		RECOVERED 0.65M. BROKEN CORE. MAINLY BRIGHT	63	9.10
9.78	11.50	1.72	SLST					GREY. R1.		
11.50	13.40	1.90	CDAL	8	1067	79		RECOVERED 1.50M. MAINLY HARD; VITRAIN BANDED.	67	13.20
13.40	19.00	5.60	SLST				SS1	GREY AND DARK GREY. THINLY BEDDED.		
19.00	20.87	1.87	SS2				SLICKENSIDED	GREY. SILTSTONE CLASTS. COAL TRACES. POORLY DEVELOPED BEDDING.	65	21.00
20.87	24.78	3.91	SLST				SS1	INTERBEDDED. BRDKEN STICK.	67	24.60
24.78	24.96	.18	COAL	7				RECOVERED 0.16M.		
24.96	26.04	1.08	SLST							
26.04	27.04	1.00	COAL	7	1068	100		LOWER 10CM VERY DIRTY.	72	26.30

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LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
27.04	29.66	2.62	SLST					RECOVERED 1.00M.		
29.66	30.20	.54	COAL	7	1069	50		BADLY BROKEN. RECOVERED 0.27M.		
30.20	30.86	.66	SLST							
30.86	31.10	.24	COAL	7				LOST CORE		
31.10	31.22	.12	SLST							
31.22	31.34	.12	COAL	7				LOST CORE		
31.34	32.10	.76	SLST							
32.10	33.26	1.16	COAL	7	1070	78		RECOVERED 0.90M. BROKEN CORE. HIGH ASH FROM 32.88M. - 33.12M.		
33.26	33.52	.26	SLST							
33.52	34.72	1.20	COAL	7	1071	96		BRIGHT BANDED. RECOVERED 1.15M. BROKEN CORE.	70	34.60
34.72	42.84	8.12	SLST					DARK GREY. THIN INTERBEDS OF SS1.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-418

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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42.84	44.36	1.52	COAL	6	1072	92		CRUSHED. RECOVERED 1.40M.		
44.36	45.12	.76	SLST					DARK GREY		
45.12	45.96	.84	COAL	6	1073	83		BRIGHT BANDED. RECOVERED 0.70M. BROKEN CORE.		
45.96	60.65	14.69	SS1					GREY. UPPER 1M VERY SILTY. BROKEN STICK. OCCASIONAL SILTSTONE BAND. R2.		
60.65	60.95	.30	COAL		1074	100		RECOVERED 0.30M. MAINLY BRIGHT, CLEAN COAL.		
60.95	67.80	6.85	SLST					BROKEN CORE. SLICKENSIDES IN LOWER 2M.		
67.80	69.96	2.16	COAL	3	1075	19		RECOVERED 0.40M. BADLY BROKEN CORE.		
69.96	73.08	3.12	SLST					DARK GREY. BADLY BROKEN. SLICKENSIDES.		
73.08	76.84	3.76	COAL	2	1076	56		RECOVERED 2.10M. BROKEN CORE. MAINLY BRIGHT	80	74.00
76.84	117.96	41.12	SLST					GREY. BROKEN STICK. SS2 BED FROM 108.3M-108.8M. CONVOLUTE BEDDING.	80	81.00
117.96	117.96		UNKN					TOTAL DEPTH 117.96M.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW64D-418

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW64D-419

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
.00	4.00	4.00	DB								
4.00	4.60	.60	SS1						GREY, MASSIVE		
4.60	14.00	9.40	SLST						MAINLY DARK GREY, SHALY, NO APPARENT BEDDING.	65	10.90
14.00	26.20	12.20	SS1					SILTSTONE	GREENISH GREY, FINE GRAINED SANDSTONE AND SILTSTONE INTERBEDDED IN PART WITH DARK GREY SILTSTONE; GIVING CORE A BANDED APPEARANCE. BANDS ARE <.5 CM THICK. GRAIN SIZE DECREASES TDWARDS BASE OF UNIT.	66	14.50
										71	17.00
										74	18.00
										68	19.50
										70	23.00
26.20	41.60	15.40	SLST						DARK GREY, NO VISIBLE BEDDING. RARE EVIDENCE OF BIOTURBATION.		
41.60	42.30	.70	SLST					SS1	GREY; MOTTLED WITH DARK SILTSTONE, BIOTURBATION COMMON. RARE BURROWS. GRADATIONAL WITH UNITS ABOVE AND BELOW	74	41.80
42.30	45.50	3.20	SS1						GREY TO LIGHT GREY, THIN CALCITE FILLED FRACTURES AT 20 DEGREES TO CORE.	72	43.20
45.50	46.80	1.30	SLST						DARK GREY		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW24D-419

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
46.80	50.80	4.00	SLST				SANDY	WAVY DISCONTINUOUS BEDDING. BURROWS COMMON.	67	48.20
50.80	57.00	6.20	SS1				SILTY	GREY, MASSIVE IN UPPER PART; BANDED WITH THIN (<1CM) BEDS OF DARK GREY SILTSTONE IN LOWER PART.	76	56.00
									74	56.80
									77	57.80
57.00	60.40	3.40	SLST					MAINLY DARK GREY, SHALY SILTSTONE BANDED WITH LIGHTER GREY SANDY SILTSTONE	73	58.70
									79	60.20
60.40	66.80	6.40	SS1				SILTSTONE	PREDOMINANTLY LIGHT GREY SS1-SILTSTONE WITH DARK BANDS OF ARGILLACEOUS SILTSTONE (0.5-1CM) THICK	68	61.50
									66	63.00
									65	66.00
									65	66.80
66.80	68.75	1.95	SS2				SS1	LIGHT GREY FINE-MED GRAINED SANDSTONE WITH OCCASIONAL DARK GREY SILT BANDS.	67	67.20
68.75	69.12	.37	COAL		1121	92		STICK CORE OF SEMI-LUSTROUS COAL WITH RARE THIN CALCITE FILLED FRACTURES. RECOVERED 34CM. GOOD		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW40-419

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A. DEPTH
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								MECHANICAL SEPARATION AT FW. AND HW.	
69.12	72.62	3.50	MDST				SILTY	DARK GREY. POLISHED, SLICKENSIDED & CALCITE FILLED FRACTURES COMMON IN CENTRAL PART OF UNIT. TWO FRACTURES MEASURED. (58DEG. & 27DEG. TO CORE)	
72.62	72.91	.29	COAL		1122	83		RECOVERED 24CM SEMI-LUSTROUS STICK CORE. 0.5CM THICK PYRITE BAND JUST ABOVE HW CONTACT. GRADATIONAL FW CONTACT.	
72.91	76.60	3.69	MDST				SILTY	DARK GREY; CARBDNACEOUS IN PART. 15CM BROWNISH, HARD CONCRETIONARY ZONE JUST BELDW COAL SEAM. BEDDING FRACTURE SURFACES ARE POLISHED.	
76.60	90.00	13.40	SLST					GREY TO DARK GREY, SANDY IN PART. THIN CALCITE FILLED FRACTURES ARE COMMON, SOME ZONES ARE HIGHLY BRECCIATED WITH CALCITE FRACTURE FILLING. BEDDING IN UNDISTURBED ZONES, IS INDISTINCT.	
90.00	90.00		UNKN					TOTAL DEPTH 90.0M.	

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-420

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	6.40	6.40	DB							
6.40	41.70	35.30	SLST					DARK GREY, MAINLY BROKEN STICK. SEVERAL THIN IRONSTONE BANDS <10CM THICK. BEDDING IS GENERALLY POORLY DEVELOPED. RARE CALCITE-HEALED FRACTURES.	5	8.50
									8	14.10
									20	17.50
									20	20.70
41.70	48.80	7.10	SLST					SLIGHTLY GREENISH/GREY. NO APPARENT BEDDING. BROKEN STICK.	35	33.00
									62	36.10
									64	38.00
48.80	51.57	2.77	SS1				VERY SILTY	GREEN. BROKEN STICK. NO VISIBLE BEDDING. R1-R2.		
51.57	52.54	.97	COAL	7	1123	80		RECOVERED 0.78M. BROKEN CORE. HIGH % OF VITRAIN	69	51.90
52.54	60.00	7.46	SS1				SILTSTONE	GREY AND DARK GREY. THINLY INTERBEDDED. THIN IRONSTONE BANDS COMMON.	54	60.80
60.00	62.73	2.73	SLST					DARK GREY, R1		
62.73	63.56	.83	COAL	6	1124	95		RECOVERED 0.79M. BROKEN CORE.	63	63.10

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-420

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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								BRIGHT VITRAIN BANDING. TRACE PYRITE.		
63.56	64.00	.44	SS1				SILTY			
64.00	64.10	.10	COAL	6				RECOVERED 0.10M.		
64.10	65.78	1.68	SLST					DARK GREY. CRUMBLES. NO VISIBLE BEDDING.		
65.78	66.08	.30	COAL	6	1125	69		RECOVERED 0.20M. BRIGHT VITRAIN BANDING.		
66.08	66.22	.14	CLAY		1125	69		COALY. RECOVERED 0.07M.		
66.22	67.04	.82	COAL	6	1125	69		RECOVERED 0.60M. BROKEN CORE. BRIGHT VITRAIN BANDING		
67.04	67.88	.84	SS1					GREY. BROKEN STICK. MINOR SILTSTONE.		
67.88	71.50	3.62	COAL	6	1126	47		RECOVERED 1.70M. MAINLY BADLY BROKEN CORE. BRIGHT VITRAIN BANDING	58	70.00
71.50	74.40	2.90	SS1				VERY SILTY	BROKEN STICK	64	72.70
74.40	75.00	.60	SLST					DARK GREY; COALY.		
75.00	77.78	2.78	SLST				SANDY	DARK GREY. LOWER 1M IS VERY COALY-BLACK; FRIABLE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-420

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINDR LITHOLOGY	REMARKS	C.B.A.	DEPTH
77.78	80.24	2.46	COAL	6	1127	65		RECOVERED 1.60M. BROKEN CORE. VITRAIN BANDING.	75	78.50
80.24	83.10	2.86	SLST					DARK GREY. BROKEN WITH POLISHED FRACTURE SURFACES.		
83.10	85.50	2.40	SS1				SILTSTONE INTERBEDDED	75% GREY SS. CONVOLUTED BEDDING.		
85.50	86.02	.52	COAL	2+3	1128	29		RECOVERED 0.15M. HARD. BRIGHT.		
86.02	87.48	1.46	CLAY					MAJOR-CLAYSTONE. DARK GREY-BLACK. FRIABLE; SOFT. SOME COALY SECTIONS. BADLY BROKEN		
87.48	89.08	1.60	COAL	2+3	1129	38		RECOVERED 0.60M. VITRAIN BANDING.		
89.08	90.25	1.17	SLST					DARK GREY. COAL TRACES. NO VISIBLE BEDDING.		
90.25	91.10	.85	COAL	2+3	1130	71		RECOVERED 0.60M. BADLY BROKEN CORE. VITRAIN BANDING.	76	90.70
91.10	91.85	.75	SLST				SANDY	DARK GREY		
91.85	100.90	9.05	SLST				SS1 INTERBEDDED	70% SILTSTONE. BROKEN STICK. RARE IRONSTONE BANDS.	75	95.10
									79	96.70

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-420

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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100.90	114.91	14.01	SLST						DARK GREY, POORLY DEVELOPED BEDDING. COAL TRACES. FRIABLE. BROKEN STICK. SECTIONS	69	99.60
114.91	114.91		UNKN						TOTAL DEPTH 114.91M.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-421

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	6.70	6.70	OB							
6.70	6.80	.10	SS1					GREY. MASSIVE.		
6.80	11.10	4.30	SLST				SANDY	GREY. GRADATES TO SS1 IN PART. OCCASIONAL SHALY PARTINGS. OCCASIONAL IRONSTONE NODULES AND BANDS.	90	8.90
11.10	13.20	2.10	SS1					LIGHT GREY AND MASSIVE AT TOP OF INTERVAL, BECOMING FINER GRAINED DOWNWARD. GRADATIONAL INTO SILTSTONE BELOW.		
13.20	15.60	2.40	SLST				SANDY	GREENISH GREY. MASSIVE. BIOTURBATED AND BURROWED IN PART. BANDED IN LOWER PART: -LIGHT SANDY LAYERS ALTERNATING WITH DARK GREY THINNER ARGILLACEOUS LAYERS.	91 78 80	14.60 15.40 15.60
15.60	17.40	1.80	SS1					LIGHT GREY; WITH OCCASIONAL BANDS (0.5-3CM) OF DARK GREY SHALY SILTSTONE.	76 77	15.80 16.20
17.40	21.70	4.30	SLST					DARK GREY; ARGILLACEOUS, WITH THIN SANDY LENSES AND	78 72	17.30 19.70

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-421

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								STRINGERS. INCREASED SAND CONTENT IN LOWER PART OF UNIT. GRADES INTO SANDSTONE BELOW.	78	19.90
									74	21.30
21.70	23.60	1.90	SS1				SS2	GREY; FINE GRAINED AT TOP OF INTERVAL BECOMING COARSER GRAINED TOWARD BASE. COALY FRAGMENTS 0.5-1 CM THICK ARE COMMON.		
23.60	25.90	2.30	SLST					DARK GREY; ARGILLACEOUS.		
25.90	28.20	2.30	SS1					GREY; WITH MUD CLASTS AND THIN DARK GREY SHALY STRINGERS.	79	26.00
									70	27.00
28.20	41.26	13.06	SLST				SHALY	DARK GREY; WITH THIN LENSES AND STRINGERS OF BROWNISH GREY, FINE GRAINED SAND COMMON. CARBONACEOUS-COALY ZONE AT 33.4M.	70	31.00
41.26	41.70	.44	COAL		1131	86		DULL TO SEMI-LUSTROUS; RARE BRIGHT BANDS. RECOVERED 38 CM BROKEN STICK GOOD MECH. SEPARATION AT FW AND HW CONTACTS.		
41.70	42.90	1.20	MDST				SILTY	DARK GREY. MASSIVE; WITH OCCASIONAL COALY FRAGMENTS.		
42.90	43.17	.27	COAL					RECOVERED 26CM OF MAINLY DULL		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-421

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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								AND DIRTY COAL. THINLY BANDED WITH BRIGHT COAL IN PART. FW CONTACT IS GRADATIONAL		
43.17	46.46	3.29	MDST				SILTY	DARK GREY, VERY CARBONACEOUS TO COALY IN PART		
46.46	46.78	.32	COAL	1	1132	100		MAINLY DULL WITH SOME VERY THIN BRIGHT BANDS. HW.-GOOD MECH. SEPARATION FW CONTACT-GRADATIONAL		
46.78	47.20	.42	MDST				SILTY	DARK GREY; WITH RARE BRIGHT COAL FRAGMENTS.		
47.20	47.34	.14	COAL	1		100		DULL, SEMI-LUSTROUS; WITH SOME BRIGHT BANDS NEAR BASE. HW.-SHARP VISUAL CONTACT; POOR MECH. SEPARATION. FW-GRADATIONAL WITH GOOD MECH. SEPARATION. ALONG LAST BRIGHT BAND.		
47.34	48.58	1.24	SLST				SHALY	DARK GREY; WITH OCCASIONAL THIN SANDY LAMINATIONS.		
48.58	50.80	2.22	COAL	1	1133	100		SEMI-LUSTROUS WITH OCCASIONAL BRIGHT BANDS. FW. AND HW. CONTACTS ARE GRADATIONAL WITH GOOD MECH. SEPARATION.		
50.80	50.88	.08	SLST					GREY		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-421

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A. DEPTH
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50.88	51.04	.16	COAL					DIRTY WITH RARE BRIGHT BANDS. ABUNDANT CALCITE FILLED FRACTURES.	
51.04	51.84	.80	SLST					DARK GREY; CARBONACEOUS. 10CM ZONE OF LIGHT GREY BELOW, CONTACT WITH COAL, MAY BE BENTONITIC.	
51.84	52.24	.40	SLST					BROWNISH GREY ON CORE SURFACE; DARK GREY ON BROKEN SURFACE. VERY HARD. CARBONACEOUS.	
52.24	52.53	.29	SLST					BLACK, VERY CARBONACEOUS. GRADATIONAL INTO COAL BELOW	
52.53	53.34	.81	COAL	1	1134	100		DULL, WITH BRIGHT BANDS OF VITRAIN IN CENTRAL PART. BROKEN STICK CORE. DIRTY IN BASAL PART, BUT SHARP VISUAL AND MECH. FW CONTACT.	
53.34	54.16	.82	SLST					DARK GREY; ARGILLACEOUS.	
54.16	54.88	.72	SH				CARBONACEOUS	BLACK; VERY CARBONACEOUS TO COALY WITH OCCASIONAL BRIGHT COAL BANDS.	
54.88	60.00	5.12	SLST				SHALY	DARK GREY. VERY HARD CONCRETIONARY BAND 12CM THICK AT 59.0 METRES. CORE BREAKS ALONG APPARANT BEDDING AT 80 DEGREES TO CORE.	
60.00	63.80	3.80	SS1					LIGHT GREY. MASSIVE WITH	

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-421

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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63.80	66.16	2.36	SLST					ABUNDANT COALY FRAGMENTS IN UPPER PART. FINER GRAINED TO SILTY IN LOWER PART.		
66.16	66.60	.44	COAL		1135	100		DARK GREY. SHALY TO CARBONACEOUS DOWN INTERVAL.		
66.60	74.20	7.60	SLST					DULL AND VERY DIRTY WITH THIN BRIGHT BANDING. HW CONTACT-VERY GRADATIONAL FW CONTACT-GRADATIONAL OVER 10CM.		
74.20	74.60	.40	SS4					DARK GREY; SHALY WITH TRACES OF THIN LAMINAE AND LENSES OF LIGHTER SILTSTONE. CONCRETIONARY BANDS AND NODULES COMMON. BASAL 25CM OF CORE IS BROKEN WITH POLISHED FRACTURE SURFACES.		
74.60	74.60	1.80	SLST				SS1	GREY TO LIGHT GREY. VOLCANIC PEBBLES 1CM IN DIAMETER AT TOP. DECREASING GRAIN SIZE TOWARDS BASE. TRACE THIN SHALE BANDS AT APPROXIMATELY 90 DEGREES TO CORE AXIS.		
76.40	82.00	5.60	SLST					DARK GREY; SHALY. 28CM ZONE OF VERY CARBONACEOUS TO COALY MATERIAL AT APPROXIMATELY 75.4M.		
								GREY TO LIGHT GREY. SANDY IN	84	77.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-421

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TDP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LITHOLOGY	REMARKS	C.B.A.	DEPTH
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									PART. WAVY THIN CM BANDS OF DARKER MORE SHALY MATERIAL ARE COMMON.	85	81.80
82.00	84.40	2.40	SS1				SS3		LIGHT GREY; MASSIVE. COAL FRAGMENTS COMMON IN COARSER BEDS.		
84.40	87.40	3.00	SLST						DARK GREY; SHALY. CARBONACEOUS TO COALY IN PART.		
87.40	87.80	.40	SS1						GREY; FINE-MEDIUM GRAINED. MASSIVE.		
87.80	96.62	8.82	SLST						DARK GREY; SHALY. CARBONACEOUS IN PART. IRONSTONE NODULES COMMON. RARE POLISHED FRACTURE SURFACES 15 DEG. TO CORE AXIS.	77	87.85
										90	87.90
96.62	96.62		UNKN						TOTAL DEPTH 96.62M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-422

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	6.18	6.18	OB							
6.18	6.24	.06	CLAY							
6.24	7.82	1.58	COAL	8	1080	35		RECOVERED 0.55M. PULVERIZED CORE. MAINLY BRIGHT.		
7.82	9.52	1.70	SS1					CONVOLUTED BEDDING. DEPOSITIONAL SLUMPING.		
9.52	11.42	1.90	SLST					DARK GREY. THIN INTERBEDS OF SS1. BROKEN STICK.	67	10.80
									74	12.60
11.42	16.80	5.38	SS1				SILTSTONE	SILTSTONE INTERBEDS. CONVOLUTED BEDDING IN BASAL METRE.		
16.80	20.60	3.80	SLST					DARK GREY. MAINLY BROKEN STICK. THIN SS1 LAYERS. COAL TRACES.	67	17.20
									73	20.00
20.60	21.86	1.26	COAL	7	1081	95		RECOVERED 1.20M. MAINLY BRIGHT AND CLEAN WITH VITRAIN BANDS. SOME PYRITE FLAKES ALONG VITRAIN BANDS.	69	21.60
21.86	28.96	7.10	SLST				SS1 INTERBEDDED	MAINLY THINLY BEDDED. SOME DEPOSITIONAL SLUMPING AND CONVOLUTED BEDDING.	72	22.20

TELKWA CORE DESCRIPTION

 DRILL HOLE # TWE4D-422

01/03/85

LOG DATE 86/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINDR LIHOLOGY	REMARKS	C.E.A.	DEPTH
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21.86	28.96	7.10	SLST				SS1 INTERBEDDED		65	25.70
									76	28.60
28.96	29.30	.34	COAL	6	1082	59		RECOVERED 0.20M. BROKEN CORE. MAINLY BRIGHT.		
29.30	29.66	.36	MDST					BLACK.		
29.66	32.14	2.48	COAL	6	1083	44		BADLY BROKEN CORE. RECOVERED 1.10M. MAINLY BRIGHT. CLEAN VITRAIN BANDING.	75	30.00
32.14	32.38	.24	CLAY					MAJOR=CLAYSTONE. GREY.		
32.38	32.58	.20	COAL	6				RECOVERED 3CM.		
32.58	35.36	2.78	SS1				SILTSTONE	MICACEOUS. SILTSTONE INTERBEDS. BROKEN STICK.	69	32.70
									35	35.00
35.36	35.75	.39	COAL	4/5	1084	82		BRIGHT. RECOVERED 0.32M. BROKEN CORE.		
35.75	36.52	.77	SLST					GREY. MASSIVE.		
36.52	39.24	2.72	COAL	4/5	1085	77		MAINLY BRIGHT. RECOVERED 2.10M. CRUSHED CORE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW64D-422

LOG DATE 86/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
39.24	42.56	3.32	SLST					DARK GREY. BADLY BROKEN AND CRUSHED. SLICKENSIDES THROUGHOUT INTERVAL.	75	40.70
42.56	44.44	1.88	COAL	3	1086	43		RECOVERED 0.80M. CRUSHED CORE.		
44.44	45.18	.74	CLAY					DARK GREY. CRUSHED. POLISHED FRACTURE SURFACES.		
45.18	45.82	.64	COAL		1087	100		RECOVERED 0.64M. BROKEN CORE. MAINLY BRIGHT.		
45.82	46.34	.52	CLAY					MAJOR=CLAYSTONE. DARK GREY. POLISHED FRACTURES. 1CM THICK PYRITE LENS.		
46.34	46.92	.58	COAL		1088	78		RECOVERED 0.45M. CRUSHED CORE.		
46.92	50.90	3.98	SS1				SILTSTONE	INTERBEDDED. BEDDING IS MAINLY CONVOLUTED. BROKEN STICK.		
50.90	51.03	.13	COAL	2				LOST CORE.		
51.03	51.14	.11	CLAY					MAJOR=CLAYSTONE		
51.14	51.26	.12	COAL	2				LOST CORE.		
51.26	51.44	.18	CLAY					MAJOR=CLAYSTONE. CARBONACEOUS		
51.44	51.81	.37	COAL	2	1089	41		RECOVERED 0.15M. CRUSHED CORE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW24D-422
-----LOG DATE 86/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.E.A.	DEPTH
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51.81	52.57	.76	CLAY					MAJOR=CLAYSTONE. DARK GREY; MASSIVE.		
52.57	53.46	.89	COAL	2				BRIGHT BANDED. RECDVERED 0.86M. BROKEN CORE.	76	53.40
53.46	59.85	6.39	SLST				SS1 INTERBEDDED	SEVERAL THIN IRONSTONE BANDS, MICACEOUS.	84	56.10
									80	59.70
59.85	93.57	33.72	SLST					DARK GREY. BROKEN STICK. COAL TRACES. 1.4M THICK SS1 BED AT 80.1M. POORLY DEVELOPED BEDDING.		
93.57	93.57		UNKN					TOTAL DEPTH 93.57M.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-423

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	21.34	21.34	OB					OVERBURDEN		
21.34	37.10	15.76	SLST				SLICKENSIDES	DARK GREY. MAINLY BROKEN STICK CORE EXCEPT FOR BADLY BROKEN ZONE AT 31.3M.-PROBABLE FAULT. POORLY DEVELOPED BEDDING. RARE CALCITE FILLED FRACTURES.		
37.10	39.50	2.40	IRST					BROKEN STICK. VERY HARD-R3. SOME IRONSTAINING. CALCITE FILLED FRACTURES THROUGHOUT. MASSIVE.		
39.50	41.25	1.75	SLST					AS SILTSTONE ABOVE		
41.25	42.80	1.55	SS1				SILTY	MAINLY THINLY BEDDED	25	41.30
42.80	50.40	7.60	SLST					DARK GREY. BROKEN STICK. NO VISIBLE BEDDING.		
50.40	50.90	.50	IRST					R3		
50.90	65.50	14.60	SLST					DARK GREY. MASSIVE. BROKEN STICK. 10CM THICK COAL BAND AT 58.2M. CALCITE FILLED FRACTURES COMMON.		
65.50	70.15	4.65	SS1				SILTY	BROKEN STICK. RARE THIN		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HDLE # TW840-423

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								SILTSTONE BANDS. GRADES TO SS2 IN PART.		
70.15	73.70	3.55	SS2					GREY. SOME SILTSTONE BANDS. BROKEN STICK WITH POLISHED FRACTURE SURFACES.	70	73.80
73.70	82.02	8.32	SLST					DARK GREY. BROKEN STICK. SOME WHITE SS2 SIZE PARTICLES WITHIN SILTSTONE.		
82.02	83.13	1.11	COAL		1136	41		BADLY BROKEN CORE. RECOVERED 0.45M. MAINLY BRIGHT, HIGHER ASH NEAR TOP		
83.13	88.80	5.67	SLST					DARK GREY. CRUSHED; POLISHED PIECES. POSSIBLE FAULT ZONE.		
88.80	94.54	5.74	CONG					GREY. GRAIN SIZE RANGES FROM MEDIUM GRAINED-PEBBLE. COAL WISPS THROUGHOUT. RARE CALCITE FILLED FRACTURES. MASSIVE.		
94.54	98.20	3.66	SLST				SANDY	BROKEN STICK WITH POLISHED FRACTURE SURFACES.	45	98.10
98.20	98.30	.10	CALC							
98.30	99.10	.80	IRST							
99.10	112.20	13.10	SLST					DARK GREY. 20CM THICK COALY SECTION AT 109.60M. MASSIVE. BROKEN STICK.		
112.20	117.26	5.06	SS2					GREY. COAL TRACES. MAINLY STICK CORE. MASSIVE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWE4D-423

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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117.26	133.92	16.66	SLST						DARK GREY; WITH COAL TRACES. PYRITE BLEBS, CLAYSTONE CLASTS. STICK CORE.	61	118.50
133.92	134.50	.58	SS3								
134.50	137.84	3.34	SLST						BROKEN STICK. MASSIVE.		
137.84	139.29	1.45	VDLC						MAINLY RED/PURPLE. RARE WEATHERED GREEN BANDS.		
139.29	139.29		UNKN						TOTAL DEPTH 139.29M.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-424

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	7.00	7.00	OB							
7.00	20.20	13.20	SH				SILTY	DARK GREY. BANDED IN UPPER PART WITH THIN LENSES AND LAMINAE OF LIGHT GREY SILTSTONE. OCCASIONAL BEDS OF SANDSTONE UP TO 20CM THICK. HARD BROWN CONCRETIONARY BANDS ARE COMMON (5-20 CM THICK)	78	7.80
									74	9.20
									73	15.40
20.20	36.40	16.20	SLST				SANDY	BROWNISH GREY. GRADES TO FINE GRAINED SANDSTONE IN PART. TRACE PYRITE. CONCRETIONARY ZONES WITH CALCITE FILLED FRACTURES ARE COMMON. BURROWS.		
36.40	41.90	5.50	SS1				SILTSTONE	LIGHT GREY TO BROWNISH GREY. MASSIVE. GRADES TO SILTSTONE IN PART.		
41.90	48.60	6.70	SLST					BROWNISH GREY. IRONSTONE NODULES COMMON (1.5-8 CM DIAMETER)		
48.60	49.10	.50	LS				SILTY	BROWN, HARD, MASSIVE.		
49.10	86.40	37.30	SLST				SANDY	BROWNISH GREY. MONOTONOUS, INDISTINCT BEDDING.		
86.40	89.20	2.80	SS1				SILTY	GREENISH GREY. MASSIVE. OCCASIONAL DARK GREY SILTSTONE BANDS.	76	89.00
89.20	90.70	1.50	SLST				SANDY	BROWNISH GREY		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-424

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
90.70	94.90	4.20	SS1				SILTY	GREENISH GREY; WITH OCCASIONAL DARK GREY SILTSTONE BANDS (<1 CM THICK).	73	93.90
94.90	101.00	6.10	SLST					DARK GREY; SHALY, WITH GREY BROWN LENSES AND LAMINATIONS LESS THAN 1CM THICK.	88	96.00
									81	99.60
101.00	101.50	.50	LS				SILTY	BROWN, MASSIVE, HARD.		
101.50	106.30	4.80	SLST				SANDY	GREY-GREENISH GREY; WITH VAGUE LENSES AND WISPS OF DARK MATERIAL.		
106.30	109.00	2.70	SS1					GREY, MASSIVE, BIOTURBATED (3-4 CM LONG BURROWS ARE COMMON).		
109.00	110.20	1.20	SLST				SANDY	BROWNISH GREY WITH DARK GREY IRREGULAR WISPS AND BANDS	78	110.00
110.20	114.90	4.70	SS1					GREENISH GREY, MASSIVE, TRACE CARBONACEOUS FLECKS.		
114.90	132.30	17.40	SLST				SS1	DARK GREY SILTSTONE GRADES TO GREY FINE GRAINED SANDSTONE IN PART, BIOTURBATION EVIDENT IN SANDY ZONES.		
132.30	133.20	.90	SS1					GREY, MASSIVE, GRADATIONAL CONTACTS ABOVE AND BELOW.		
133.20	155.46	22.26	SLST					DARK GREY; SHALY, ABUNDANT CONCRETIONARY ZONES AND		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-424

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								NODULES. LIGHTER GREY SANDY LENSES AND STRINGERS COMMON. (WAVY AND IRREGULAR IN SHAPE)		
155.46	156.04	.58	SS1					BROWNISH GREY. SILTY AT TOP; BECOMING COARSER TOWARD BASE.	76	155.80
156.04	156.40	.36	SLST				COALY	BLACK-DARK GREY. COALY TO VERY CARBONACEOUS WITH THIN LENSES AND LAMINAE OF FINE GRAINED SAND.	75	156.20
156.40	157.32	.92	SLST					DARK GREY. SHALY WITH THIN SANDY LENSES AND LAMINAE.	77	157.20
157.32	163.02	5.70	COAL	1	1138	100		DULL TO SEMI-LUSTROUS WITH OCCASIONAL BRIGHT BANDS. GOOD STICK CORE DIRT BAND FROM 159.36M. - 159.48M. DIRT BAND WITH ABUNDANT DISSEMINATED PYRITE FROM 160.85M. - 161.0M. TWO SILTY BANDS 1CM THICK. HW-SHARP VISUAL CONTACT- GOOD MECH. SEPARATION FROM PYRITIC SAND ABOVE CONTACT FW - GOOD MECH. SEPARATION.		
163.02	163.60	.58	SLST				CARBONACEOUS	DARK GREY. ABUNDANT PLANT FRAGMENTS IN UPPER PART; COALY BANDS IN LOWER PART.		
163.60	163.86	.26	COAL	1	1139	90		SEMI-LUSTROUS WITH OCCASIONAL BRIGHT BANDS. TRACE SILT		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-424

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								LENSES. DIRTY GRADATIONAL CONTACTS ABOVE AND BELOW.		
163.86	164.40	.54	SLST					DARK GREY. SANDY STRINGERS.	88	164.10
164.40	165.46	1.06	COAL	1	1140	100		SEMI-LUSTROUS, WITH OCCASIONAL BRIGHT BANDS UP TO 0.5 CM THICK. BRIGHT BANDS COMMONLY ARE CRISS-CROSSED BY WHITE CALCITE FILLED FRACTURES. HW-GRADATIONAL CONTACT OVER 10 CM; FW-COAL IS DIRTY IN LOWER PART WITH GRADATIONAL BASAL CONTACT.		
165.46	165.70	.24	SLST				COALY	DARK GREY-BLACK. CARBONACEOUS TO COALY. BRIGHT COAL BANDS. FRACTURED AND INFILLED WITH CALCITE IN LOWER PART.		
165.70	166.20	.50	SS1					LIGHT GREY. FINE-MEDIUM GRAINED. COARSER TOWARD BOTTOM UNIT. SHARP CONTACTS ABOVE AND BELOW.		
166.20	170.66	4.46	SLST					DARK GREY, WITH OCCASIONAL GREY SANDY BANDS UP TO BCM THICK. CONCRETIONARY ZONES FROM 166.28M. - 166.5M. AND 168.5M. - 168.74M. CARBONACEOUS AT BASE.	80	166.90

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-424

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
170.66	171.30	.64	COAL	1	1141	100		HARD, MAINLY DULL; MICRO-BANDED IN PART. ABUNDANT THIN CALCITE FILLED FRACTURES IN LOWER PART.		
171.30	171.74	.44	SLST					DARK GREY-GREY WITH ABUNDANT THIN SANDY STRINGERS. CARBONACEOUS AT TOP AND BASE.		
171.74	171.95	.21	SLST				CARBONACEOUS	BLACK		
171.95	174.70	2.75	SLST					DARK GREY. CONCRETIONARY ZONES UP TO 7CM THICK ARE COMMON. CARBONACEOUS TO COALY IN BASAL 40CM.		
174.70	175.10	.40	SS1					LIGHT GREY, WITH THIN DARK GREY SILT STRINGERS.	68	174.90
									80	175.00
175.10	175.50	.40	SLST				COALY	BLACK. TRACE BRIGHT COAL BANDS, WITH CALCITE FILLED FRACTURES.		
175.50	176.40	.90	SS1				SILTSTONE	LIGHT GREY, WITH CM BANDS OF DARK GREY SILTSTONE COMMON.	78	175.90
									83	176.20
176.40	177.00	.60	SLST				COALY	BLACK, CARBONACEOUS TO COALY		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-424

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLOGY	REMARKS	C.B.A.	DEPTH
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177.00	178.90	1.90	SLST					LIGHT MAUVE GREY. MASSIVE. TRACE BLACK CARBONACEOUS FLECKS.		
178.90	178.90		UNKN					TOTAL DEPTH 178.9M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWI'4D-425

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	9.10	9.10	OB					OVERBURDEN		
9.10	9.20	.10	SS1					LIGHT GREY, MASSIVE		
9.20	9.70	.50	SLST					BROWNISH GREY.		
9.70	10.10	.40	COAL					DULL AND DIRTY. BANDED IN PART WITH BRIGHT BANDS <1MM THICK.		
10.10	19.20	9.10	SLST					BROWNISH GREY, WITH OCCASIONAL WISPY SAND LENSES IN UPPER PART.	63	12.00
								INCREASING SAND IN LOWER PART WITH CM INTERBEDS AT BASE.	63	18.80
									68	19.10
19.20	21.00	1.80	SS1				SLST	LIGHT GREY BANDED WITH DARK GREY SILTSTONE LAYERS UP TO .5 CM IN THICKNESS.	62	19.30
									70	19.70
									68	20.90
21.00	31.23	10.23	SLST					BROWNISH GREY, SHALY WITH TRACE SAND STRINGERS AND LENSES 2-5MM THICK.	67	26.50
31.23	31.96	.73	COAL		1152	78		RECOVERED 57CM BROKEN STICK; CONSISTING OF HARD MAINLY DULL COAL; DIRTY IN PART, TRACE BRIGHT BANDS <.5		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-425

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A. DEPTH
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								CM THICK.	
31.96	32.32	.36	SLST					DARK GREY.	
32.32	32.68	.36	COAL		1153	62		RECOVERED 20CM OF RUBBLE CONSISTING MAINLY OF DULL TO DIRTY COAL WITH TRACES OF BRIGHT COAL IN VERY THIN BANDS.	
32.68	33.12	.44	SLST					DARK GREY.	
33.12	33.42	.30	COAL		1154	52		RECOVERED 16CM OF DULL DIRTY COAL WITH TRACES OF BRIGHT COAL. THIN DISSEMINATED PYRITE LENS.	
33.42	36.72	3.30	SLST					DARK GREY.	
36.72	37.08	.36	COAL		1155	78		RECOVERED 28 CM BROKEN STICK CONSISTING OF DULL TO SEMI-LUSTROUS COAL, WITH RARE BRIGHT BANDS. TRACE DISSEMINATED PYRITE IN 4 MM THICK LENS AT UPPER CONTACT.	
37.08	37.77	.69	SLST					DARK GREY, SLIGHTLY CARBONACEOUS.	
37.77	37.97	.20	COAL					RECOVERED 20 CM OF RUBBLE CONSISTING OF SEMI-LUSTROUS TO	

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-425

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLOGY	REMARKS	C.B.A.	DEPTH
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								BRIGHT COAL.		
37.97	38.68	.71	MDST					DARK GREY, SLIGHTLY CARBONACEOUS AT TOP; LOWER PART OF INTERVAL CORE IS CRUSHED INTO RUBBLE AND POWDER CONSISTING OF GREY MUD AND SILT. CONSIDERABLE LOST CORE.		
38.68	39.08	.40	COAL		1156	50		RECOVERED- 30CM OF SOFT BLACK COALY RUBBLE, POWDER AND FRAGMENTS OF DULL COAL; 10CM OF BROKEN DULL COAL WITH ABUNDANT THIN CALCITE FILLED FRACTURES AT BASE OF UNIT.		
39.08	39.73	.65	MDST					LOST CORE.		
39.73	39.88	.15	COAL					LOST CORE, MAY BE INCLUDED IN COAL UNIT ABOVE.		
39.88	40.32	.44	MDST					DARK GREY, SILTY, SLIGHTLY CARBONACEOUS.		
40.32	41.80	1.48	COAL		1157	50		RECOVERED 80CM. -30CM BROKEN DULL COAL WITH OCCASIONAL BRIGHT BANDS HW- GRADATIDNAL OVER 5CM GOOD MECHANICAL SEPARATION. LOWER 50 CM CONSIST OF DULL COAL POWDER.		
41.80	46.81	5.01	SLST					DARK GREY, SHALY, WISPS OF		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWE4D-425

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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								COAL FRAGMENTS 1-2MM THICK COMMON. ABUNDANT DISSEMINATED PYRITE IN BASAL 7CM. BRECCIATED IN PART WITH POLISHED FRACTURE SURFACES.		
46.81	47.43	.62	COAL		1158	36		RECOVERED 22CM OF BROKEN STICK; COMPOSED MAINLY OF DULL-DIRTY COAL. 1CM THICK BRIGHT BANDS IN BASAL PART WITH THIN CALCITE FILLED FRACTURES.		
47.43	52.14	4.71	SLST					DARK GREY, SHALY, INDISTINCT BEDDING BRECCIATED IN UPPER PART WITH PLANT FRAGMENTS COMMON. 15CM COALY INTERVAL AT 48.04M. BRIGHT BANDS 1CM THICK, WITH CALCITE FILLED FRACTURES INTERBEDDED WITH SILTSTONE. TRACE PYRITE IN LENSES UP 0.5CM THICK.	78	51.50
									75	51.70
52.14	52.45	.31	COAL		1159	100		DULL WITH OCCASIONAL THIN BRIGHT BANDS. HW CONTACT GRADATIONAL OVER 5 CM FW - SHARP VISUAL GOOD MECH. SEPARATION.		
52.45	53.02	.57	SLST					DARK GREY, CARBONACEOUS PLANT FRAGMENTS COMMON.		
53.02	53.20	.18	COAL					DULL, WITH OCCASIONAL THIN BRIGHT BANDS. DISSEMINATED		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW64D-425

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A. DEPTH
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								PYRITE LENS 2MM THICK. GRADATIONAL CONTACTS ABOVE AND BELOW.	
53.20	53.70	.50	SLST					DARK GREY, SHALY WITH POLISHED FRACTURE SURFACES.	
53.70	56.78	3.08	COAL		1160	95		MAINLY DULL AND BRIGHT COAL. HW.-GRADATIONAL OVER 5 CM; SHARP VISUAL- GOOD MECHANICAL SEPARATION. FW.-VERY SHARP VISUAL CONTACT.	
								DIRT PARTING AT 54.3M. IRREGULAR SHAPED SAND STRINGERS 1-5CM THICK. A 30CM ZONE OF SILTSTONE RUBBLE 60CM ABOVE LOWER CONTACT. PROBABLY REPRESENTS DIRT BAND AT 55.7M.	
56.78	56.88	.10	SLST				BENTONITIC?	LIGHT GREY, SOFT.	
56.88	57.04	.16	COAL			100		DULL AND DIRTY WITH RARE BRIGHT BANDS 0.5 CM THICK.	
57.04	59.36	2.32	SLST					GREY-DARK GREY. SANDY IN UPPER PART. TRACE BRIGHT COAL FRAGMENTS.	
59.36	60.04	.68	COAL		1161	100		DULL TO SEMI-LUSTROUS WITH THIN BRIGHT BANDS. HW.-GRADATIONAL OVER 5 CM FW CONTACT GRADATIONAL OVER 4CM GOOD MECH. SEPARATION. SILT BANDS 1CM THICK IN CENTRAL PART.	

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW64D-425

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
60.04	60.59	.55	SLST					DARK GREY, CARBONACEOUS WITH SANDY STRINGERS AT BASE.	77	60.50
60.59	60.70	.11	SLST				COAL	BLACK DIRTY COAL WITH SILT STRINGERS.		
60.70	61.00	.30	SLST					GREY WITH DARK GREY CARBONACEOUS PLANT FRAGMENTS.		
61.00	61.60	.60	SH				COALY	BLACK, SILTSTONE LENSES AND BANDS.		
61.60	69.80	8.20	SLST					DARK GREY, BECOMING BROWNISH GREY AND MORE SANDY TOWARD BASE OF UNIT.	68	67.00
								MM-CM SS1 BANDS IN BASAL 1.5 METRES. CONCRETIONARY ZONES 2-3 CM THICK	65	68.50
								COMMON IN UPPER HALF OF UNIT.	60	69.00
69.80	72.08	2.28	SS2					LIGHT GREY WITH BRIGHT COALY FRAGMENTS COMMON. TWO 20CM THICK BROWN SILTY ZONES. ONE OF WHICH IS AT THE BASE OF UNIT.		
72.08	73.11	1.03	COAL		1162	100		DULL WITH VERY THIN BRIGHT BANDS. RARE SILTSTONE LENSES AND STRINGERS. HIGH DIRT CONTENT. HW.-SHARP VISUAL CONTACT; FW.-GRADATIONAL.	73	72.15
73.11	78.33	5.22	SLST				SHALE	DARK GREY, SHALY. BROWN CONCRETIONARY ZONES UP TO 6CM THICK ARE COMMON.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-425

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A. DEPTH
73.11	78.33	5.22	SLST				SHALE	PLANT FRAGMENTS ON BEDDING SURFACES IN UPPER PART.	
78.33	78.33		UNKN					TOTAL DEPTH 78.33M. (LOGGED BY P. HICKEY)	

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-426

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A. DEPTH
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.00	4.00	4.00	OB					OVERBURDEN	
4.00	4.60	.60	SLST					RECOVERED 60CM OF RUBBLE CONSISTING OF DARK GREY SHALY TO SLIGHTLY CARBONACEOUS SILTSTONE INTERMIXED WITH CLAY.	
4.60	6.10	1.50	COAL	2	1137	30		RECOVERED 0.5M. OF RUBBLE CONSISTING OF DULL AND BANDED COAL. SOME OF COAL IS GROUND UP AND INTERMIXED WITH CLAY IN LOWER PART OF ZONE.	
6.10	20.60	14.50	LC					35CM OF GREY SILTSTONE BELOW THE COAL WAS RECOVERED-DRILLERS THEN ENCOUNTERED A VOLCANIC BOULDER;RECOVERED CORE CONSISTS OF PEBBLE SIZE FRAGMENTS OF RED VOLCANICS,SANDSTONE AND COAL	
20.60	23.30	2.70	SLST					LIGHT GREY, SANDY	
23.30	24.40	1.10	SS1				SILTY	GREY. MASSIVE.	
24.40	42.90	18.50	SLST					GREY-DARK GREY. NO VISIBLE BEDDING.	
42.90	44.20	1.30	SLST				CALCAREOUS	DARK GREY, HARD, ABUNDANT BURROWS WHICH ARE CEMENTED BY CALCITE.	
44.20	53.90	9.70	SLST					DARK GREY, VAGUE BEDDING.	67 47.80

TELKWA CORE DESCRIPTION

DRILL HOLE # TW84D-426

01/03/85

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLOGY	REMARKS	C.B.A.	DEPTH
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53.90	53.90					UNKN	TRACE PYRITE STRINGERS. TRACE COAL FRAGMENTS.		
							TOTAL DEPTH 53.9M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-427

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	21.34	21.34	OB					OVERBURDEN		
21.34	22.00	.66	SS3					GREY. CONGLOMERATIC; POORLY SORTED CONTAINING PEBBLES UP TO 3CM IN DIAMETER COALY FRAGMENTS ARE COMMON.		
22.00	23.10	1.10	SS1					GREY. UNIFORM APPEARANCE. GRADATIONAL INTO UNITS ABOVE AND BELOW.		
23.10	26.80	3.70	SS2			SS3		GREY. CONGLOMERATIC, WITH SS1 ZONES. COALY FRAGMENTS COMMON. 25CM ZONE OF LARGE PEBBLES AT APPROX. 24.5M.		
26.80	38.40	11.60	SS4					PEBBLE CONGLOMERATE CONSISTING OF VOLCANIC GREEN AND RED PEBBLES. IN UPPER PART OF UNIT, PEBBLES ARE SORTED TO UNIFORM SIZE OF 1CM IN DIAMETER SIZE INCREASES TO 4CM IN BASAL 3 METRES (MATRIX: MED-COARSE GRAINED SAND) -OCCASIONAL SS1 BEDS 15-25CM IN THICKNESS.	55	29.80
38.40	41.10	2.70	MDST				SILTY	DARK GREY, CARBONACEOUS TO COALY IN PART. HIGHLY POLISHED FRACTURE SURFACES IN BROKEN CORE BELOW CONTACT WITH CONGLOMERATE	58	30.80
41.10	41.10		UNKN					TOTAL DEPTH 41.1M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

DRILL HDLE # TW84D-427

01/03/85

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-42B

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
.00	7.62	7.62	DB					OVERBURDEN		
7.62	34.48	26.86	MDST				SILTSTONE	LIGHT-DARK GREY; SILTY. WEAKLY BEDDED TO MASSIVE. OCCASIONAL CALCITE FILLED FRACTURES.		
34.48	34.91	.43	SLST					GREY-WHITE. NUMEROUS CALCITE FILLED FRACTURES-ALMOST A BRECCIA ZONE.		
34.91	40.05	5.14	MDST					DARK GREY-GREY; WITH TAN BROWN CONCRETIONS. BECOMING COALY AT BASE.		
40.05	40.13	.08	COAL					SOFT, DIRTY.		
40.13	40.59	.46	MDST					AS AT 34.91M.		
40.59	41.02	.43	COAL		1224		MUDSTONE	VERY DIRTY AND FLAKEY WITH OCCASIONAL WHITE CALCITE VEINS.		
41.02	43.94	2.92	MDST					LIGHT GREY-GREY. IRONSTONE CONCRETIONS. APPEARS TO BE BRECCIATED. COALY AT BASE.		
43.94	44.60	.66	COAL	9	1225	51		DULL, SOFT AND POWDERY.		
44.60	44.80	.20	MDST				SILTSTONE	DARK GREY-BLACK. FLAKEY.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW840-428

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
44.80	44.92	.12	COAL	9	1226	100				
44.92	45.16	.24	MDST					AS AT 44.6M.		
45.16	45.28	.12	COAL					LOST CORE.		
45.28	45.52	.24	MDST					AS AT 44.6M.		
45.52	47.17	1.65	COAL	9	1227	43		DULL, BLOCKY.		
47.17	49.50	2.33	MDST				SILTSTONE	LIGHT GREY-GREY. WEAKLY LAMINATED.	47	47.60
49.50	51.82	2.32	COAL	8	1228	72		BRIGHT, BLOCKY, HARD.		
51.82	57.00	5.18	SLST				MUDSTONE	GREY-LIGHT GREY. LAMINATED. BROKEN CORE AT BASE.		
57.00	57.50	.50	COAL		1229			DULL, BROKEN TO POWDERY.		
57.50	60.24	2.74	SLST				MUDSTONE	GREY-DARK GREY. RIP-UP CLASTS AND CONCRETIONS. WHITE CALCITE VEINS.	85	59.50
60.24	60.41	.17	COAL					LOST CORE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-428

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINDR LIHOLOGY	REMARKS	C.B.A. DEPTH
60.41	60.57	.16	SLST					AS AT 57.5M.	
60.57	62.05	1.48	COAL	6	1230	65	MUDSTONE	DULL, FLAKEY, DIRTY. 21CM MUDSTONE SPLIT (61.4M.-61.61M.); INCLUDED IN SAMPLE.	
62.05	62.97	.92	MDST					DARK GREY, COALY.	
62.97	63.36	.39	COAL	6	1231	41		BLOCKY, SLICKED.	
63.36	63.78	.42	SLST				MUDSTONE	DARK GREY.	
63.78	64.09	.31	COAL	6	1232	71		POWDERY. SLICKENSIDES.	
64.09	66.12	2.03	MDST				COAL	DARK GREY-BLACK. MASSIVE.	
66.12	66.51	.39	COAL	6	1233	100	MUDSTONE	GREY-BLACK, DULL, DIRTY, FLAKEY.	
66.51	66.85	.34	MDST					DARK GREY, COALY.	
66.85	67.55	.70	COAL	6	1234	65	MUDSTONE	DARK GREY-BLACK; DULL.	
67.55	67.88	.33	MDST					BLACK, COALY.	

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-428

01/03/85

LOG DATE 84/08/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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67.88	68.05	.17	COAL					LOST CORE.		
68.05	68.10	.05	MDST					AS AT 67.55M.		
68.10	69.08	.98	COAL	6	1235	90		SEMI-STICK TO POWDERY. DULL WITH OCCASIONAL BRIGHT BANDS.		
69.08	69.21	.13	MDST					GREY		
69.21	69.37	.16	COAL			100	MUDSTONE	DIRTY, DARK GREY TO BLACK.		
69.37	71.84	2.47	MDST				COAL	OCCASIONAL COAL BANDS IN DARK GREY-BLACK COALY MUDSTONE. SLICKED FRACTURE SURFACES.		
71.84	72.64	.80	COAL	6	1236	62		SLICKED, POWDERY, POLISHED.		
72.64	78.33	5.69	SLST					LIGHT GREY. WEAKLY LAMINATED. CONCRETIONS WITH CALCITE FILLED FRACTURES.	45	72.80
									40	74.80
78.33	82.64	4.31	MDST				SILTSTONE	LAMINATED, DARK AND LIGHT GREY, OCCASIONAL CALCITE RICH CONCRETIONS, COALY SLICKED FRACTURE SURFACES.	75	78.40

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-428

01/03/85

LOG DATE 84/08/00
 EXAMINED BY S. CAMERON

TOP -----	BASE -----	THICKNESS -----	MAJOR -----	SEAM -----	SAMPLE# -----	REC -----	MINOR LITHOLOGY -----	REMARKS -----	C.B.A. DEPTH -----
82.64	82.88	.24	COAL			75		SOFT, POWDERY	
82.88	83.48	.60	MDST						
83.48	83.64	.16	COAL			100		SOFT, POWDERY.	
83.64	83.78	.14	MDST						
83.78	83.95	.17	COAL			100		SOFT, POWDERY.	
83.95	84.70	.75	MDST						
84.70	85.79	1.09	COAL	2+3	1237	87	MUDSTONE	STICK TO POWDER. SOMEWHAT DIRTY.	
85.79	86.69	.90	MDST					WEAKLY LAMINATED.	
86.69	87.18	.49	COAL	2+3	1238	100		STICK CORE. BRIGHT AND DULL.	
87.18	102.70	15.52	MDST				SILTSTONE	DARK GREY. WEAKLY LAMINATED. CONCRETIONS.	81 89.00 90 92.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-428

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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87.18	102.70	15.52	MDST				SILTSTONE		85	95.40
102.70	108.80	6.10	SLST				MUDSTONE	MEDIUM GREY. NO VISIBLE BEDDING.		
108.80	108.80		LNKN					TOTAL DEPTH 108.80M.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TWE4D-429

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	49.40	49.40	OB						OVERBURDEN. NOTE: TOPS ARE BASED ON DRILLERS' DEPTHS. NO LOGS RUN.		
49.40	50.10	.70	SLST						GREY.		
50.10	53.34	3.24	LC						INTERVAL WAS DRILLED WITH TRICONE BIT.		
53.34	56.10	2.76	SLST						GREY. SANDY. INCREASED SAND CONTENT IN BASAL METRE OF UNIT. BEDDING IS WAVY AND IRREGULAR - SLUMP STRUCTURES?	60	55.70
56.10	57.00	.90	SS1				SS2		LIGHT GREY. UPPER 40CM FINE GRAINED, BECOMING MEDIUM GRAINED IN LOWER PART. COAL FRAGMENTS UP TO .5 CM THICK ARE COMMON.		
57.00	58.80	1.80	SLST						DARK GREY-GREY, SANDY IN PART; CARBONACEOUS IN BASAL 15 CM.		
58.80	59.20	.40	SH				COAL		BLACK; VERY CARBONACEOUS TO COALY, WITH OCCASIONAL BRIGHT BANDS 2CM THICK.		
59.20	65.95	6.75	SLST						GREY. SANDY IN PART. VAGUE WAVY BEDDING. CARBONACEOUS IN BASAL 20CM.		
65.95	66.14	.19	COAL						DULL AND BRIGHT BANDED. (VITRAIN BANDS 0.5CM THICK)		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW40-429

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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66.14	69.49	3.35	SLST					GREY-DARK GREY. TRACE COAL FRAGMENTS. CARBONACEOUS TO COALY IN BASAL 25 CM.		
69.49	72.45	2.96	SLST				SS1	LIGHT GREY. SILTSTONE GRADING DOWNWARDS TO FINE GRAINED SANDSTONE.	77	71.40
								OCCASIONAL DARK BANDS, UP TO 3CM THICK IN LOWER HALF OF UNIT.	72	72.10
72.45	75.29	2.84	SLST					GREY MASSIVE		
75.29	76.20	.91	MDST				CARBONACEOUS	DARK GREY. SLIGHTLY SILTY; CARBONACEOUS TO COALY. POLISHED BEDDING FRACTURES AT 74 DEGREES TO CORE.		
76.20	80.40	4.20	SLST					DARK GREY; SHALY. CARBONACEOUS IN PART. PLANT FRAGMENTS COMMON ON BEDDING SURFACES.		
80.40	80.80	.40	MDST				CARBONACEOUS	DARK GREY- BLACK, COALY IN PART WITH RARE BRIGHT BANDS UP TO 1 CM THICK.		
80.80	87.50	6.70	SLST					GREY-DARK GREY. CARBONACEOUS IN PART. GRADES TO FINE GRAINED SANDSTONE IN PART.	79	82.80
87.50	88.00	.50	SS					LIGHT GREY. FINE TO MEDIUM	76	87.90

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW24D-429

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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88.00	97.40	9.40	SLST					GRAINED. GRADATIONAL WITH UNITS ABOVE AND BELOW.		
97.40	97.80	.40	SLST				CARBONACEOUS	GREY. GRADES TO FINE GRAINED SANDSTONE IN PART.	74	96.60
97.80	104.90	7.10	SLST					VERY DARK GREY, SHALY.		
104.90	107.00	2.10	SS					GREY-DARK GREY. GRADES TO FINE GRAINED SANDSTONE IN PART. TRACE COALY FRAGMENTS.	77	104.70
107.00	110.00	3.00	SS3					GREY-LIGHT GREY. FINE-MEDIUM GRAINED, WITH ABUNDANT COALY STRINGERS. 10CM CONGLOMERATE BED AT 106.2M, CONTAINS VOLCANIC PEBBLES <1.5CM DIAMETER.		
110.00	110.00		UNKN					LIGHT GREY. COMPDSED MAINLY OF GREEN AND RED VOLCANIC CLASTS. WELL SORTED. TRACE PEBBLES; RARE COALY FRAGMENTS. CONGLOMERATIC IN BASAL 15CM.		
								TOTAL DEPTH 110.0M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-430
-----LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	7.68	7.68	OB							
7.68	24.08	16.40	COAL	8	1142	49		RECOVERED 8.0M BADLY BROKEN AND CRUSHED CORE. MAINLY SEMI-LUSTROUS WITH VITRAIN BANDING. VITRAIN BANDS APPEAR TO BE ALMOST VERTICAL.		
24.08	45.60	21.52	SLST				SS1		63	24.20
									40	24.80
									48	25.50
									0	26.00
									0	27.10
									17	28.60
									55	29.80
									5	31.40
									65	32.70
									61	34.20
									0	35.30

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-430

01/03/85

LDG DATE B4/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
24.08	45.60	21.52	SLST				SS1		68	37.10
									68	40.20
									55	43.10
									69	45.40
45.60	47.54	1.94	COAL	7	1143	77		RECOVERED 1.50M. LOWER HALF CRUSHED; UPPER HALF IS BROKEN STICK. APPEARS TO BE DIRTY, WITH HIGH ASH CONTENT.		
47.54	60.00	12.46	SLST				SS1 INTERBEDDED		66	55.10
									62	59.60
60.00	61.52	1.52	COAL	6	1144	25		RECOVERED 0.38M. BADLY BROKEN CORE. MAINLY SEMI-LUSTROUS COAL.		
61.52	76.30	14.78	SLST				SANDY		75	63.10
76.30	77.82	1.52	SS1					GREY. BROKEN STICK. MASSIVE.		
77.82	78.58	.76	COAL	2	1145	33		MAINLY CRUSHED. BRIGHT. RECOVERED 0.25M.		
78.58	79.94	1.36	SLST					DARK GREY. BROKEN STICK.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-430

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
79.94	80.12	.18	SLST				COALY			
80.12	80.36	.24	SLST					DARK GREY. NO VISIBLE BEDDING.		
80.36	80.74	.38	COAL	2	1146	58		BADLY BROKEN. BRIGHT. RECOVERED 0.22M.		
80.74	81.14	.40	CLAY				COALY	R1.		
81.14	81.34	.20	COAL	2		20		CRUSHED. RECOVERED 0.04M.		
81.34	81.66	.32	CLAY					DARK GREY.		
81.66	81.84	.18	COAL	2	1147	100		CRUSHED. RECOVERED 0.18M BRIGHT COAL.		
81.84	82.32	.48	SLST					DARK GREY. CARBONACEOUS. BROKEN STICK.		
82.32	82.76	.44	COAL	2	1148	100		RECOVERED 0.44M. BROKEN STICK. BRIGHT VITRAIN BANDING.	76	82.70
82.76	90.60	7.84	SLST				SS1	THINLY INTERBEDDED; SOME CONDULATED BEDDING. RARE THIN IRONSTONE BANDS.		
90.60	115.20	24.60	SLST					DARK GREY. POORLY DEVELOPED BEDDING. SOME SANDY SECTIONS. FEW THIN		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-430

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
90.60	115.20	24.60	SLST						IRONSTONE BANDS.		
115.20	115.60	.40	SS2						GREY. MASSIVE.	73	115.30
115.60	129.35	13.75	SLST						DARK GREY. BROKEN STICK. NO VISIBLE BEDDING. FEW THIN IRONSTONE BANDS.		
129.35	130.15	.80	LS						MAJOR=LIMESTONE.		
130.15	133.20	3.05	SLST						DARK GREY. STICK CORE.		
133.20	133.20		UNKN						TOTAL DEPTH 133.20M.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-430A

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
.00	2.40	2.40	OB							
2.40	7.60	5.20	SLST				SS1	THINLY INTERBEDDED. BROKEN STICK.	0	6.00
									0	7.30
7.60	8.32	.72	COAL	8	1149	24		RECOVERED 0.17M. SEMI-LUSTROUS, WITH VITRAIN BANDING.	10	8.30
8.32	9.16	.84	SS1				SILTSTONE	INTERBEDDED. SOME GREEN SS. BROKEN STICK. RECOVERED 0.35M.		
9.16	19.04	9.88	COAL	8	1150	69		CRUSHED CORE. MAINLY SEMI-LUSTROUS WITH VITRAIN BANDING. RECOVERED: 6.8M. VERTICAL FRACTURES.		
								N.B: RECOVERED APPROX. 26CM GREEN SS AT ABOUT 14.5M. APPEARS TO BE REPEAT OF SS AT 8.32M. DOES NOT SHOW ON LOGS. INCLUDED IN COAL SAMPLES.		
19.04	19.60	.56	CLAY					MAJOR=CLAYSTONE. RECOVERED 0.18M.		
19.60	23.00	3.40	COAL	8	1151	32		CRUSHED. RECOVERED 1.10M. LOWER CONTACT IS APPROXIMATE BECAUSE HOLE WAS LOGGED TO DEPTH OF 22.75M.	83	23.20
23.00	26.00	3.00	CLAY				SILTSTONE INTERBEDDED	MAJOR=CLAYSTONE.	31	23.90

TELKWA CORE DESCRIPTION

DRILL HOLE # TW84D-430A

01/03/85

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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										14	24.60

26.00 26.00

UNKN

TOTAL DEPTH 26.0M.

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-431

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	21.34	21.34	OB					OVERBURDEN		
21.34	33.00	11.66	SLST				SS1	DARK GREY. BROKEN STICK. SOME THIN BEDDING.	73	21.60
									69	23.70
									70	28.10
33.00	35.90	2.90	SS1					GREEN. BROKEN STICK. MASSIVE.		
35.90	36.30	.40	CDAL	10	1163	15		RECOVERED 0.06M; BRIGHT VITRAIN BANDING.	67	36.00
36.30	36.37	.07	CLAY					MAJOR-CLAYSTONE. COALY.		
36.37	36.70	.33	SLST					DARK GREY.		
36.70	40.90	4.20	SS1					GREY; MICACEOUS. MINOR SILTSTONE BANDING. R2. BROKEN STICK CORE.	73	37.80
									68	40.70
40.90	42.68	1.78	SLST					DARK GREY. POORLY DEVELOPED BEDDING. 15CM THICK IRONSTONE BAND.		
42.68	43.56	.88	COAL	9	1164	100		BROKEN STICK. RECOVERED 0.88M. BRIGHT VITRAIN BANDING THROUGHOUT.	64	43.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-431

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
43.56	45.84	2.28	SS1				VERY SILTY	UPPER 30CM VERY COALY, BROKEN STICK.	62	43.80
45.84	48.06	2.22	COAL	8	1165	77		RECOVERED 1.70M. BROKEN STICK. BRIGHT VITRAIN BANDING. MINOR PYRITE FLAKES ALONG VITRAIN BANDS.	64	46.00
48.06	55.10	7.04	SLST				MINOR SS1 BANDS	BROKEN STICK, SOME THINLY BEDDED SECTIONS.	73	50.00
									63	54.10
55.10	63.40	8.30	SS1				MINOR SILTSTONE LAYERS	GREY. SEVERAL THIN IRONSTONE BANDS. BROKEN STICK CORE.	64	56.80
									59	61.00
									71	62.80
63.40	69.20	5.80	SLST				MINOR SS1 LAYERS	DARK GREY. COAL TRACES. 15CM THICK IRONSTONE BAND.		
69.20	70.22	1.02	SS1					GREY. RARE IRONSTONE BANDS.		
70.22	70.38	.16	COAL	7				CRUSHED. RECOVERED 0.07M.		
70.38	70.68	.30	SLST							
70.68	72.24	1.56	SS1					GREY. IRONSTONE BANDS COMMON.	74	71.90

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-431

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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72.24	72.52	.28	COAL	7	1166	100		RECOVERED 0.28M. BROKEN STICK. BRIGHT VITRAIN BANDING.	73	72.30
72.52	73.18	.66	CLAY					MAJOR=CLAYSTONE, DARK GREY. NO VISIBLE BEDDING.		
73.18	73.36	.18	COAL	7				RECOVERED 0.04M		
73.36	78.84	5.48	SLST					DARK GREY. BROKEN STICK WITH POLISHED FRACTURE SURFACES. TRACE COAL. 15CM CALCAREOUS CONCRETION. SSI STRINGERS, SOME DEPOSITIDNAL SLUMPING.		
78.84	79.26	.42	COAL	6	1167	76		BRIGHT. RECOVERED 0.32M. TRACE PYRITE FLAKES.		
79.26	81.20	1.94	SLST					DARK GREY. POLISHED FRACTURE SURFACES.	14	79.40
									14	81.00
81.20	83.54	2.34	COAL	6	1168	90		BADLY BROKEN SECTIONS. RECOVERED 2.1M. MAINLY BRIGHT VITRAIN BANDING. CLEAN	30	81.80
									50	83.20
83.54	83.57	.03	SLST				PYRITE			
83.57	85.22	1.65	CLAY					MAJOR=CLAYSTONE, DARK GREY.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-431

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINDR LIHOLOGY	REMARKS	C.B.A.	DEPTH
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								R1. CARBONACEOUS.		
85.22	85.64	.42	COAL	6	1169	86		RECOVERED 0.36M. CRUSHED CORE.		
85.64	85.94	.30	CLAY					MAJOR=CLAYSTONE. DARK GREY.		
85.94	88.12	2.18	SLST					DARK GREY. BROKEN STICK. NO VISIBLE BEDDING.		
88.12	88.40	.28	COAL		1170	54		RECOVERED 0.15M CRUSHED CORE.		
88.40	89.22	.82	SLST					NO VISIBLE BEDDING.		
89.22	90.00	.78	COAL		1171	100		RECOVERED 0.78M BROKEN CORE. BRIGHT VITRAIN BANDING.	63	89.40
									61	89.90
90.00	92.80	2.80	SLST					BROKEN STICK. IRONSTONE BANDS COMMON.	54	91.00
92.80	112.40	19.60	SS1				SILTSTONE BANDS	SEVERAL THIN IRONSTONE BANDS. BROKEN STICK. CALCITE FILLED FRACTURES WITHIN IRONSTONE BANDS.	52	99.60
112.40	112.80	.40	CLAY					MAJOR=CLAYSTONE. DARK GREY.		
112.80	113.10	.30	COAL	2	1172	31		RECOVERED 0.15M. BRIGHT.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-431

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP -----	BASE -----	THICKNESS -----	MAJOR -----	SEAM -----	SAMPLE# -----	REC -----	MINOR LITHOLOGY -----	REMARKS -----	C.B.A. -----	DEPTH -----
113.10	114.25	1.15	SLST					DARK GREY, LOWER 15CM SANDY.		
114.25	114.65	.40	IRST							
114.65	117.64	2.99	SLST					DARK GREY. LOWER 20CM COALY.	57	115.50
117.64	118.12	.48	COAL	2	1173	88		RECOVERED 0.42M. BRIGHT VITRAIN BANDING.	59	118.00
118.12	119.84	1.72	SLST					DARK GREY. R1. UPPER 40CM COALY.		
119.84	120.36	.52	COAL	2	1174	100		RECOVERED 0.52M. BRIGHT.		
120.36	121.32	.96	SLST					DARK GREY.		
121.32	121.48	.16	COAL	2				RECOVERED 0.08M.		
121.48	121.66	.18	CLAY				COALY	MAJOR=CLAYSTONE. UPPER 2CM BENTONITIC.		
121.66	121.98	.32	COAL	2	1175	75		RECOVERED 0.24M. BRIGHT VITRAIN BANDING.		
121.98	127.10	5.12	SS1					MASSIVE. BROKEN STICK. 10CM IRONSTONE BAND.		

TELKWA CORE DESCRIPTION

DRILL HOLE # TWE4D-431

01/03/85

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A. DEPTH
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127.10	127.10							TOTAL DEPTH 127.10M.	
			UNKN						

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW40-432

01/03/85

LOG DATE 84/08/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINDR LITHOLOGY	REMARKS	C.B.A.	DEPTH
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
.00	4.57	4.57	DB					OVERBURDEN.		
4.57	12.10	7.53	SLST					GREY. MASSIVE. OCCASIONAL IRONSTONE NODULE.		
12.10	12.46	.36	SS1					GREEN. MASSIVE. VERY FINE GRAINED.		
12.46	16.30	3.84	SLST					GREY - MASSIVE, OCCASIONAL IRONSTONE NODULE.		
16.30	20.30	4.00	SS1				GREEN	MASSIVE. VERY FINE GRAINED.		
20.30	20.65	.35	COAL	10	1208	100				
20.65	21.40	.75	SLST				SS1	INTERBEDDED. GRADATIONAL CONTACT WITH UNIT BELOW. OCCASIONAL BIOTURBATION.	80	21.00
21.40	23.45	2.05	SS1					LIGHT GREY. MASSIVE.		
23.45	27.10	3.65	SS1				SILTSTONE	LIGHT GREY SS1 INTERBEDDED WITH DARK GREY SILTSTONE. OCCASIONAL COAL STRINGER AND IRONSTONE NODULE.	78	24.00
27.10	28.04	.94	COAL	9	1209	85				
28.04	32.86	4.82	SLST				SS1	DARK GREY SILTSTONE WITH	78	29.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-432

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								OCCASIONAL THIN INTERBEDS OF LIGHT GREY SS1, COAL STRINGERS AND IRONSTONE NODULES.	77	31.00
32.86	34.26	1.40	COAL	8	1210	78				
34.26	37.40	3.14	MDST				SS1	BLACK MUDSTONE WITH OCCASIONAL THIN INTERBEDS OF LIGHT GREY SS1. OCCASIONAL IRONSTONE NODULE.	76	35.00
37.40	47.80	10.40	SS1				SILTSTONE	LIGHT GREY SS1 INTERBEDDED WITH DARK GREY SILTSTONE, IRONSTONE NODULES THROUGHOUT UNIT.	75	40.00
									66	44.00
									62	46.00
47.80	53.90	6.10	MDST				SILTSTONE/SS1	THIS IS A FINING UPWARD UNIT FROM LIGHT GREY SS1 TO BLACK MUDSTONE.	47	48.00
									32	50.00
									33	52.00
53.90	61.80	7.90	SS1				SILTSTONE	LIGHT GREY SS1 WITH THIN INTERBEDS OF DARK GREY SILTSTONE. OCCASIONAL THIN COAL STRINGER.	34	54.00
									19	56.00
									17	58.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-432

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
61.80	62.00	.20	MDST				FAULT	BROKEN; SLICKENSIDED FAULT GOUGE IN BLACK MUDSTONE.		
62.00	69.20	7.20	MDST				SILTSTONE/COALY SHALE	BLACK MUDSTONE WITH INTERBEDDED COALY SHALE AND SILTSTONE. OCCASIONAL IRONSTONE BAND.	81	66.00
									80	68.00
69.20	69.45	.25	COAL				SHALEY			
69.45	73.64	4.19	MDST				SILTSTONE	BLACK. OCCASIONAL LENTICULAR INTERBED OF SS1.		
73.64	73.88	.24	COAL	6		10		RUBBLE.		
73.88	74.32	.44	MDST				CARBONACEOUS	BLACK.		
74.32	75.68	1.36	COAL	6		49		RUBBLE		
75.68	76.25	.57	MDST				CARBONACEOUS	BLACK. OCCASIONAL IRONSTONE NODULE.		
76.25	79.26	3.01	SS1				SILTSTONE/MUDSTONE	LIGHT GREEN SS1 INTERBEDDED WITH GREY BLACK SILTSTONE. SILTSTONE BECOMES DOMINANT NEAR BASE OF UNIT.	79	77.00
									83	79.00
79.26	79.50	.24	COAL	6		60				

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-432

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TDP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
79.50	80.76	1.26	MDST				CARBONACEOUS	BLACK		
80.76	81.48	.72	COAL	6		44				
81.48	86.52	5.04	MDST					BLACK MUDSTONE WITH THIN LENTICULAR BANDS OF LIGHT GREY SS1.	78	82.00
									77	84.00
									70	86.00
86.52	101.12	14.60	SS1				SILTSTONE	LIGHT GREY-GREEN SS1 WITH INTERBEDDED DARK GREY SILTSTONE.	76	92.00
									75	96.00
									75	98.00
101.12	102.24	1.12	COAL	2		66		BROKEN STICK - RUBBLE.		
102.24	116.20	13.96	SS1				SILTSTONE	LIGHT GEY SS1 WITH THIN INTERBEDS OF DARK GREY SILTSTDNE. OCCASIONAL IRONSTONE NODULES. OCCASIONAL CDAL BLEB AND STRINGER. WAVY LENTICULAR BEDDING.	76	105.00
									71	108.00
									68	110.00
									74	112.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW64D-432

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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116.20	120.40	4.20	MDST						GREY-BLACK. SHEARED. (PROBABLY DUE TO SLUMPING).		
120.40	127.10	6.70	SLST						DARK GREY. MASSIVE.		
127.10	127.10		UNKN						TOTAL DEPTH 127.10M.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-433

LOG DATE 84/07/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----
.00	10.30	10.30	OB					OVERBURDEN		
10.30	10.90	.60	SLST					DARK GREY, BROKEN STICK.		
10.90	11.70	.80	LS					MAJOR = LIMESTONE. GREY. CALCITE FILLED FRACTURES.		
11.70	27.00	15.30	SLST					DARK GREY, BROKEN STICK CORE. R1-R1. NON CALCAREOUS. NUMEROUS CALCITE CEMENTED BURROWS.	52	26.10
									46	28.00
									45	31.10
27.00	66.35	39.35	SLST					DARK GREY AS ABOVE WITH NO BURROWS. RARE THIN IRONSTONE BANDS.		
66.35	67.30	.95	SS1				SILTY	GREEN-GREY. R1. COAL TRACES.		
67.30	68.90	1.60	SLST				SANDY	BADLY BROKEN,		
68.90	73.66	4.76	SS1				SILTY	MICACEOUS. BROKEN STICK. COAL TRACES. MINOR FE STAINING. LOWER 30CM VERY SILTY.	70	69.20
									78	72.70
73.66	73.96	.30	COAL	9	1176	74		RECOVERED: 0.18M. MAINLY		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-433

LOG DATE 84/08/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								SEMI-LUSTROUS.		
73.96	74.04	.08	CLAY		1176			RECOVERED 0.05M. CRUSHED CORE.		
74.04	74.92	.88	COAL	9	1176			RECOVERED 0.70M. MAINLY DULL BANDED.	70	74.10
74.92	76.40	1.48	SLST				SANDY	MICACEOUS. COAL TRACES.		
76.40	78.80	2.40	SS1				SILTY	MINOR IRONSTONE BANDING.	68	78.50
78.80	79.86	1.06	SLST					NO VISIBLE BEDDING. BROKEN STICK.		
79.86	82.62	2.76	COAL	8	1177	94		RECOVERED: 2.6M. BROKEN CORE. BRIGHT VITRAIN BANDING.	53	80.00
									61	81.00
82.62	99.11	16.49	SLST				SS1	DARK GREY. INTERBEDDED. BROKEN STICK.	50	84.00
									27	85.60
									5	87.10
									5	90.80
									15	95.10

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-433

01/03/85

LOG DATE 84/07/00
 EXAMINED BY J. EISENMAN

TOP ---	BASE ---	THICKNESS ---	MAJOR ---	SEAM ---	SAMPLE# ---	REC ---	MINOR LITHOLOGY -----	REMARKS -----	C.B.A. -----	DEPTH -----
99.11	102.11	3.00	SS1					MASSIVE.	63	97.10
									46	99.60
102.11	102.11		UNKN					TOTAL DEPTH 102.11M.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-434

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINDR LIHOLDGY	REMARKS	C.B.A.	DEPTH
.00	10.90	10.90	DB							
10.90	24.10	13.20	SLST				SS1	DARK GREY SILTSTONE WITH INTERBEDDED LIGHT GREY SS1. OCCASIONAL BIOTURBATION. WAVY BEDDING.	66	13.00
24.10	27.95	3.85	SS1				SILTSTONE	LIGHT GREY SS1 WITH THIN INTERBEDS (2 CM) OF DARK GREY SILTSTONE. OCCASIONAL IRONSTONE NODULE.	65	25.00
									65	26.00
									64	27.00
27.95	29.18	1.23	MDST				CARBONACEOUS		73	29.00
29.18	29.30	.12	COAL					RUBBLE		
29.30	29.78	.48	MDST				CARBONACEOUS			
29.78	30.34	.56	COAL	8	1214	80		BROKEN STICK		
30.34	30.45	.11	LC							
30.45	30.82	.37	COAL	8	1214	80		BROKEN STICK		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-434

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
30.82	36.60	5.78	SLST				SS1	DARK GREY SILTSTONE WITH INTERBEDDED LIGHT GREY SS1. OCCASIONAL IRONSTONE NODULES.	70	31.00
									68	34.00
									70	36.00
36.60	43.10	6.50	SS1				SILTSTONE	LIGHT GREY SS1 WITH INTERBEDDED DARK GREY SILTSTONE. OCCASIONAL IRONSTONE NODULE. OCCASIONAL 5CM BAND OF SS2. OCCASIONAL BAND OF COALY SHALE NEAR BASE OF UNIT.	67	38.00
									73	40.00
									70	42.00
43.10	45.50	2.40	MDST				CARBONACEOUS	BLACK. OCCASIONAL THIN LENTICULAR INTERBED OF LIGHT GREY SS1.	67	44.00
45.50	46.05	.55	COAL	7	1215	91		STICK.		
46.05	46.10	.05	SLST				PYRITIC CEMENT			
46.10	46.20	.10	COAL		1215	91		STICK		
46.20	46.25	.05	SLST				PYRITIC			
46.25	46.68	.43	COAL	7	1215	91		STICK		
46.68	49.40	2.72	MDST				CARBONACEOUS	OCCASIONAL THIN LENTICULAR	66	49.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HDLE # TW84D-434

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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								BANDS OF SS1.		
49.40	50.03	.63	SS1				MUDSTONE	LIGHT GREEN WITH OCCASIONAL THIN BANDS OF CARBONACEOUS MUDSTONE. OCCASIONAL IRONSTONE NODULE. SS1 IS VERY MICACEOUS.	53	50.00
50.03	50.76	.73	MDST				CARBONACEOUS	BLACK, CDAL CLASTS AND STRINGERS.	57	50.50
50.76	51.18	.42	COAL	6	1216	58		(POSSIBLE CAVE ZONE)		
51.18	51.25	.07	CLAY			58		POSSIBLY BENTONITE.		
51.25	53.10	1.85	CDAL	6	1216	58		STICK WITH 10CM. OF RUBBLE.		
53.10	61.84	8.74	MDST					OCCASIONALLY GRADES TO SILTSTONE. OCCASIONAL THIN LENTICULAR BEDS OF LIGHT GREY SS1. IRONSTONE NODULES THROUGHOUT UNIT.	67	54.00
									59	58.00
									68	61.00
									67	61.50
61.84	62.72	.88	COAL	5	1217	84		RUBBLE		
62.72	63.24	.52	MDST				CARBONACEOUS	BLACK		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TWR40-434

01/03/85

LOG DATE 84/08/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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63.24	64.00	.76	COAL	4	1218	100		STICK.		
64.00	76.38	12.38	SS1				SILTSTONE	LIGHT GREY SS1 INTERBEDDED WITH DARK GREY SILTSTONE. IRONSTONE NODULES THROUGHOUT UNIT. CARBONACEOUS MATERIAL THROUGHOUT.	64	66.00
									66	67.00
									64	71.00
									61	73.00
									62	76.00
76.38	76.68	.30	MDST				COALY			
76.68	76.88	.20	COAL	3		100		STICK		
76.88	77.28	.40	MDST				CARBONACEOUS			
77.28	78.30	1.02	COAL	3	1219	100		STICK		
78.30	78.84	.54	MDST				CARBONACEOUS			
78.84	79.18	.34	COAL			73		STICK		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-434

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
79.18	79.32	.14	MDST				CARBONACEOUS	BLACK		
79.32	80.55	1.23	SS1				SILTSTONE/IRONSTONE	LIGHT GREY SS1 INTERBEDDED WITH DARK GREY SILTSTONE AND BROWN IRONSTONE.	60	80.00
									61	80.50
80.55	82.33	1.78	MDST				CARBONACEOUS	OCCASIONAL COAL STRINGER. GRADES INTO COALY MUDSTONE AT BASE OF UNIT.		
82.33	82.76	.43	COAL	2	1221	56		RUBBLE		
82.76	83.38	.62	MDST				CARBONACEOUS	BLACK		
83.38	83.55	.17	COAL	2	1222	88		BROKEN STICK		
83.55	83.59	.04	SLST					DARK GREY.		
83.59	83.90	.31	COAL	2	1222	88		BROKEN STICK		
83.90	83.96	.06	SLST					DARK GREY		
83.96	84.52	.56	COAL	2	1222	88		BROKEN STICK.		
84.52	85.13	.61	SLST					DARK GREY WITH OCCASIONAL THIN	63	85.00

TELKWA CORE DESCRIPTION

 DRILL HOLE # TWE4D-434

01/03/85

LOG DATE 84/08/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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								LENTICULAR BANDS OF LIGHT GREY SS1.		
85.13	85.25	.12	COAL				SHALEY			
85.25	85.37	.12	MDST				CARBONACEOUS	BLACK		
85.37	85.47	.10	COAL	2			SHALEY			
85.47	86.00	.53	MDST				CARBONACEOUS	BLACK		
86.00	86.68	.68	COAL	2		100		BROKEN STICK.		
86.68	95.30	8.62	SLST				SS1	DARK GREY SILTSTONE WITH INTERBEDDED LIGHT GREY SS1.OCCASIONAL IRONSTONE,SOME SMALL SCALE FAULTING.WAVY BEDDING.	75	87.00
									56	91.00
									67	92.00
									69	94.00
									70	95.00
95.30	106.00	10.70	SLST					DARK GREY. MASSIVE. OCCASIONAL SHELL FRAGMENTS.		
106.00	106.00		UNKN					TOTAL DEPTH 106.00M.		

TELKWA CORE DESCRIPTION

DRILL HOLE # TWE4D-434

01/03/85

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLOGY	REMARKS	C.B.A. DEPTH
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TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-435

01/03/85

LOG DATE 84/08/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	7.62	7.62	OB							
7.62	12.30	4.68	SS1					GREEN. MASSIVE.		
12.30	12.80	.50	COAL	10	1254	60		BROKEN STICK		
12.80	15.22	2.42	MDST				CARBONACEOUS	BLACK		
15.22	21.00	5.78	SS1				SILTSTONE	LIGHT GREY SS1 INTERBEDDED WITH DARK GREY SILTSTONE. OCCASIONAL IRONSTONE NOOULE.	63	17.00
									56	19.00
									57	20.00
21.00	22.12	1.12	MDST				CARBONACEOUS	BLACK		
22.12	23.28	1.16	COAL	9	1255	78		BROKEN STICK		
23.28	24.50	1.22	MDST				CARBONACEOUS	BLACK		
24.50	28.80	4.30	SS1				SILTSTONE	LIGHT GREY SS1 INTERBEDDED WITH DARK GREY SILTSTONE.	58	25.00
									57	26.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-435

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
24.50	28.80	4.30	SS1				SILTSTONE		56	27.00
									58	28.00
28.80	29.72	.92	MDST				CARBONACEOUS	BLACK		
29.72	30.14	.42	COAL	8	1256	86		BROKEN STICK		
30.14	30.52	.38	MDST				CARBONACEOUS			
30.52	31.20	.68	COAL	8	1257	89		BROKEN STICK		
31.20	31.32	.12	SLST			89	CARBONACEOUS			
31.32	32.13	.81	COAL	8	1257	89		BROKEN STICK		
32.13	32.28	.15	SLST			89	CARBONACEOUS			
32.28	32.64	.36	COAL	8	1257	89		BROKEN STICK		
32.64	37.80	5.16	SLST				SS1	DARK GREY SILTSTONE WITH THIN INTERBEDS OF LIGHT GREY SS1.	60	33.00
									61	36.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-435

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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37.80	52.00	14.20	SS1				SILTSTONE	LIGHT GREY SS1 THINLY INTERBEDDED WITH DARK GREY SILTSTONE. OCCASIONAL IRONSTONE NODULE AND COAL STRINGER. OCCASIONAL THIN BAND OF SALT AND PEPPER SS2.	64	38.00
									64	38.02
									65	39.00
									59	42.00
									66	47.00
									70	48.00
									72	50.00
52.00	53.32	1.32	MDST				CARBONACEOUS	BLACK	72	52.00
53.32	54.72	1.40	COAL	7	1258	62		RUBBLE		
54.72	54.87	.15	MDST				CARBONACEOUS	BLACK		
54.87	59.60	4.73	SS1				SILTSTONE	LIGHT GREY.		
59.60	62.60	3.00	MDST				CARBONACEOUS	BLACK-GREY		
62.60	63.28	.68	COAL	6	1259	59		RUBBLE		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-435

01/03/85

LOG DATE 84/08/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
63.28	67.00	3.72	MDST				CARBONACEOUS/COALY	BLACK. OCCASIONAL ZONE OF COALY MUONSTONE. OCCASIONAL IRONSTONE NODULE. VERY BROKEN TO RUBBLE.	69	66.00
67.00	68.10	1.10	COAL	6	1260	70		RUBBLE		
68.10	70.04	1.94	MDST				CARBONACEOUS	BLACK. OCCASIONAL IRONSTONE NODULE WITH CALCITE FILLED FISSURES THROUGHOUT.		
70.04	70.16	.12	COAL	6	1260		SHALEY			
70.16	70.24	.08	MDST				CARBONACEOUS	BLACK-GREY.		
70.24	70.32	.08	COAL				SHALEY			
70.32	70.40	.08	MDST				CARBONACEOUS	BLACK-GREY.		
70.40	70.51	.11	COAL				SHALEY			
70.51	80.12	9.61	MDST				CARBONACEOUS	FAIRLY MASSIVE. OCCASIONAL IRONSTONE NODULE WITH CALCITE FILLED FISSURES. OCCASIONAL BAND OF COALY SHALE.	61	75.00
80.12	80.22	.10	COAL				SHALEY			

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-435

01/03/85

LOG DATE 84/08/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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80.22	81.92	1.70	MDST					CARBDNACEOUS	AS MDST ABOVE.		
81.92	81.92		UNKN						TOTAL DEPTH 81.92M.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-436
-----LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	7.00	7.00	OB					OVERBURDEN		
7.00	20.30	13.30	SLST				SS1	GREY BLACK SILTSTONE THINLY INTERBEDDED WITH LIGHT GREY SS1. OCCASIONAL BIOTURBATION.	76	10.00
									77	18.00
20.30	25.90	5.60	SS1					DARK GREEN; MASSIVE.		
25.90	26.58	.68	SS1				SILTSTONE/CARBONACEOUS	LIGHT GREY SS1 WITH THIN INTERBEDS OF DARK GREY SILTSTONE. OCCASIONAL THIN COAL STRINGERS.	75	26.00
26.58	27.51	.93	COAL	10		92		STICK.		
27.51	36.90	9.39	SS1				SILTSTONE/CARBONACEOUS	LIGHT GREY SS1 WITH OCCASIONAL THIN INTERBEDS OF DARK GREY SILTSTONE. OCCASIONAL BROWN IRONSTONE BANDS (5CM THICK).	74	30.00
									75	34.00
36.90	37.98	1.08	SLST				CARBONACEOUS	DARK GREY. OCCASIONAL THIN LENTICULAR BED OF LIGHT GREY SS1.	74	37.00
37.98	38.72	.74	COAL	9		90				
38.72	38.78	.06	MDST			90		LIGHT GREY.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-436

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHDLOGY	REMARKS	C.B.A.	DEPTH
38.78	39.00	.22	COAL			90				
39.00	40.16	1.16	SLST				CARBONACEOUS	DARK GREY. COALY STRINGERS THROUGHOUT.		
40.16	40.52	.36	COAL			100				
40.52	40.79	.27	SLST				CARBONACEOUS	DARK GREY. COALY STRINGERS.		
40.79	41.16	.37	COAL			93				
41.16	41.20	.04	SS1			93	PYRITE	THIN PYRITE BANDS THROUGHOUT.		
41.20	42.90	1.70	COAL	8		93				
42.90	48.80	5.90	SLST					OCCASIONAL THIN INTERBEDDED LENTICULAR SS1. IRONSTONE BANDS AND NODULES THROUGHOUT.	76	44.00
									76	48.00
48.80	54.93	6.13	SS1				SILTSTONE	LIGHT GREY SS1 WITH THIN INTERBEDS OF DARK GREY SILTSTONE. COAL STRINGERS; IRONSTONE BANDS AND NODULES.	75	50.00
									73	51.00
54.93	55.15	.22	COAL					HARD, DULL, STICK CORE.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TWB4D-436

01/03/85

 LOG DATE 84/08/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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55.15	59.12	3.97	MDST				CARBONACEOUS	OCCASIONAL THIN LENTICULAR BEDS OF LT GREY SS1. OCCASIONAL IRONSTONE BAND.		
59.12	60.00	.88	COAL	7		83		HARD, DULL, STICK CORE.		
60.00	60.05	.05	MDST			83	CARBONACEOUS	CONTAINS TWO VERY THIN BANDS OF LIGHT GREY SS1.		
60.05	60.26	.21	COAL	7		83		BROKEN		
60.26	62.90	2.64	MDST				CARBONACEOUS	HIGHLY SHEARED NEAR BASE OF UNIT.		
62.90	63.63	.73	SS1					GREEN. THIN INTERBEDS OF DARK GREY MUDSTONE. COAL STRINGERS.	71	63.00
63.63	63.88	.25	COAL				SHALEY			
63.88	64.07	.19	MDST				CARBONACEOUS			
64.07	64.24	.17	COAL				SHALEY			
64.24	65.23	.99	MDST				CARBONACEOUS	GREY-BLACK.		
65.23	65.44	.21	COAL					DULL, HARD. BROKEN STICK.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-436
-----LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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65.44	66.52	1.08	MDST				CARBONACEOUS	DARK GREY		
66.52	67.28	.76	COAL	6	1206	91		HARD, DULL WITH BRIGHT. STICK CORE.		
67.28	67.33	.05	CLAY			91		POSSIBLY BENTONITE.		
67.33	67.56	.23	COAL	6	1206	91		STICK		
67.56	68.68	1.12	MDST				CARBONACEOUS	DARK GREY.		
68.68	70.04	1.36	COAL	6	1207	100		HARD, DULL WITH BRIGHT. BROKEN STICK.		
70.04	72.55	2.51	MDST				CARBONACEOUS	BLACK	59	71.00
									61	72.00
72.55	75.90	3.35	SS1				SILTSTONE	LIGHT GREY SS1 INTERBEDDED WITH DARK GREY CARBONACEOUS SILTSTONE. ABUNDANT IRONSTONE NODULES WITH CALCITE FILLED FISSURES.		
75.90	83.40	7.50	SLST					GREY BLACK. MASSIVE. OCCASIONAL LARGE (20CM) IRONSTONE NODULE.	67	80.00
									65	82.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-436

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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83.40	86.60	3.20	SS1				SILTSTONE	LIGHT GREY SS1 INTERBEDDED WITH DARK GREY SILTSTONE. FINES DOWNWARD INTO SILTSTONE. OCCASIONAL IRONSTONE NODULE. RARE CALCITE FILLED FRACTURES.		
86.60	88.90	2.30	SLST					DARK GREY, MASSIVE. OCCASIONAL IRONSTONE NODULE.		
88.90	102.70	13.80	SS1					LIGHT GREY TO LIGHT GREEN IN COLOUR. VERY FINE GRAINED. OCCASIONAL THIN INTERBED OF DARK GREY SILTSTONE. IRONSTONE NODULES COMMON THROUGHOUT.	74	95.00
102.70	102.70		UNKN					TOTAL DEPTH 102.7M.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-437

01/03/85

LOG DATE 84/08/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
.00	7.60	7.60	OB					OVERBURDEN		
7.60	9.70	2.10	MDST					GREY. SLIGHTLY SILTY.	68	7.80
9.70	10.10	.40	SS1				SILTY	GREY. HARD, SLIGHTLY CALCAREOUS.		
10.10	11.50	1.40	MDST					GREY. SILTY.		
11.50	11.90	.40	MDST				CARBONACEOUS	DARK GREY-BLACK. CARBONACEOUS TO COALY.		
11.90	12.55	.65	MDST					GREY.		
12.55	12.95	.40	MDST				CARBONACEOUS	DARK GREY; VERY CARBONACEOUS. SLIGHTLY SILTY.		
12.95	15.10	2.15	MDST					DARK GREY, WITH THIN (<0.5 CM) INTERBEDS OF SILT.	44	14.00
15.10	16.24	1.14	COAL	6				LOST CORE		
16.24	17.40	1.16	MDST				SILTSTONE	THIN (<0.5 CM) INTERBEDS, LIGHT AND DARK GREY.	61	17.00
17.40	17.80	.40	SLST					GREY. HARD.		
17.80	19.58	1.78	MDST				SILTSTONE	THINLY INTERBEDDED.	72	17.90

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-437

01/03/85

LOG DATE 84/08/00
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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19.58	20.18	.60	COAL	6				LOST CORE.		
20.18	22.40	2.22	MDST				SILTSTONE	DARK GREY MUDSTONE INTERBEDDED IN PART WITH GREENISH GREY SILTSTONE.		
22.40	28.80	6.40	SLST					GREENISH GREY, WITH OCCASIONAL THIN (< .5 CM) DARK GREY SHALEY INTERBEDS.	74	22.90
									75	27.40
									72	28.00
28.80	29.60	.80	MDST					GREY TO DARK BROWNISH GREY, SILTY.		
29.60	30.00	.40	SH				COALY			
30.00	30.64	.64	MDST					BROWNISH GREY. BREAKS ALONG WAXY POLISHED FRACTURE SURFACES.		
30.64	31.88	1.24	COAL	3	1239	24		RECOVERED 30CM OF RUBBLE CONSISTING OF DULL TO SEMI-LUSTROUS COAL. IRREGULAR PYRITIC LENS <0.5 CM THICK.		
31.88	32.20	.32	MDST	3				GREY. SLIGHTLY SILTY.		
32.20	32.60	.40	COAL	3	1240	50		RECOVERED 20CM OF BROKEN DULL		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-437

LOG DATE 84/08/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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32.60	33.16	.56	SH				COALY	COAL. DARK GREY-BLACK. WAXY POLISHED FRACTURE SURFACES.		
33.16	36.68	3.52	MDST					GREY. SLIGHTLY SILTY, WITH OCCASIONAL SILT STRINGERS.	74	36.10
36.68	37.00	.32	SH				COALY			
37.00	37.80	.80	MDST					GREY. CONSIDERABLE LOST CORE IN INTERVAL.		
37.80	38.50	.70	COAL	2				LOST CORE.		
38.50	41.78	3.28	MDST					GREY; SILTY. COALY ZONE AT APPROX. 40.3M.		
41.78	42.24	.46	COAL	2	1241	90		RECOVERED 40CM OF POWDERED DULL COAL.		
42.24	59.80	17.56	SLST					LIGHT-DARK GREY. THIN BEDDED. IRDNSTONE CONCRETIONARY ZONES ARE COMMON THROUGHOUT INTERVAL.	72	42.60
									64	47.60
									62	50.30
									61	50.80
59.80	96.20	36.40	SLST					GREY. MASSIVE. GRADES TO FINE	62	82.50

TELKWA CORE DESCRIPTION

DRILL HOLE # TW:4D-437

01/03/85

LOG DATE 84/08/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LITHOLOGY	REMARKS	C.B.A.	DEPTH
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96.20	96.20								GRAINED SANDSTONE IN PART. IRONSTONE NODULES COMMON IN BASAL 15 METRES.		
									TOTAL DEPTH 96.2M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-438

01/03/85

LOG DATE 84/08/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.E.A.	DEPTH
----	----	-----	-----	-----	-----	-----	-----	-----	-----	-----
.00	6.10	6.10	DB					DVERBURDEN		
6.10	20.42	14.32	SS1				SILTSTONE	LIGHT GREY SILTSTONE WITH THIN INTERBEDS OF DARK GREY SILTSTONE AND LENTICULAR IRONSTONE BANDS. SS1 IS VERY MICACEOUS. OCCASIONAL SLICKENSIDES HIGHLY FOLDED UNIT WITH ABUNDANCE OF SMALL FAULTS. BEDDING VARIES FROM FROM 0 TO 90 DEG. OCCASIONAL DISSEMINATED PYRITE IN SS1. SOME OVERTURNED BEDS.		
20.42	42.00	21.58	SLST					DARK GREY, MASSIVE. SOME CARBONACEOUS MATERIAL THROUGHOUT UNIT. IRONSTONE NODULES THROUGHOUT UNIT. MANY WITH CALCITE FILLED FISSURES. RARE THIN LENTICULAR SS1 BEDS. OCCASIONAL SLICKENSIDES.	79	30.00
42.00	46.30	4.30	SS1					GREEN, MASSIVE. OCCASIONAL CALCITE FILLED FRACTURES.		
46.30	47.44	1.14	SLST				SS1	DARK GREY. OCCASIONAL THIN INTERBEDS OF LIGHT GREY SS1.	79	47.00
47.44	48.37	.93	COAL	10	1178	86		HARD, DULL. SOME SLICKENSIDED SURFACES. BROKEN STICK.		
48.37	49.28	.91	SLST					DARK GREY SILTSTONE WITH OCCASIONAL INTERBEDS OF LIGHT	78	49.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-438

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								GREY LENTICULAR SS1.		
49.28	58.50	9.22	SS1					GREEN. MASSIVE. OCCASIONAL COAL STRINGER OR BLEB. OCCASIONAL CALCITE FILLED FRACTURE. SOME SMALL SCALE FAULTING THROUGHOUT UNIT. GRADATIONAL CONTACT WITH UNIT BELOW.		
58.50	60.56	2.06	SS1				SILTSTONE	LIGHT GREY. OCCASIONAL THIN CARBONACEOUS STRINGER.	84	60.00
60.56	61.52	.96	COAL	9	1179	39		BROKEN.		
61.52	66.25	4.73	SS1				SILTSTONE	LIGHT GREY SS1 THINLY INTERBEDDED WITH DARK GREY CARBONACEOUS SILTSTONE. IRONSTONE BANDS THROUGHOUT UNIT. SOME SMALL SCALE NORMAL FAULTS.	74	62.00
									75	65.00
66.25	70.15	3.90	SLST				SS1	DARK GREY CARBONACEOUS SILTSTONE INTERBEDDED WITH LIGHT GREY SS1. OCCASIONAL IRONSTONE NODULE.	77	68.00
70.15	79.49	9.34	SS1				SILTSTONE	LIGHT GREY SS1 WITH THIN INTERBEDS OF DARK GREY SILTSTONE. OCCASIONAL IRONSTONE NODULE AND COAL STRINGER. UNIT GRADATES TO LIGHT GREEN SS2 IN PART.	72	72.00
79.49	79.56	.07	COAL							80

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW24D-438

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
79.56	83.58	4.02	SLST				SS1	DARK GREY CARBONACEOUS SILTSTONE WITH OCCASIONAL THIN INTERBEDS OF LIGHT GREY SS1 AT TOP OF UNIT.	66	81.00
83.58	83.71	.13	COAL			86				
83.71	84.95	1.24	SLST				SLICKENSIDED	DARK GREY; CARBONACEOUS. OCCASIONAL IRONSTONE NODULES.	62	84.00
84.95	85.40	.45	SS2					LIGHT GREEN. CONVOLUTED BEDDING NEAR BASE OF UNIT.		
85.40	85.74	.34	COAL	7	1180	94				
85.74	85.89	.15	SH			94	COALY			
85.89	86.00	.11	COAL	7	1180	94				
86.00	86.84	.84	MDST				CARBONACEOUS	GREY. OCCASIONAL SLICKENSIDE.		
86.84	87.13	.29	COAL	7	1181	100				
87.13	88.88	1.75	SLST				CARBONACEOUS	OCCASIONAL IRONSTONE NODULE. SOME THIN INTERBEDS OF SS1. RARE SLICKENSIDES.	79	88.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-438

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
88.88	89.80	.92	COAL	7	1182	100		FW.-GRADATIONAL CONTACT.		
89.80	90.10	.30	MDST				COALY	ABUNDANCE OF COAL STRINGERS.		
90.10	91.06	.96	SLST				CARBONACEOUS	DARK GREY. ABUNDANCE OF COAL STRINGERS.	74	91.00
91.06	91.57	.51	COAL	7	1183	100		HARD, DULL. STICK CORE.		
91.57	96.38	4.81	SLST				SS1	DARK GREY CARBONACEOUS SILTSTONE THINLY INTERBEDDED WITH LIGHT GREY SS1. SOME SOFT SEDIMENT DEFORMATION. ABUNDANT SLICKENSIDES NEAR BASE.	74	93.00
96.38	98.39	2.01	COAL	6	1184	97		HARD, DULL. BROKEN STICK.		
98.39	114.25	15.86	SS1				SILTSTONE	LIGHT GREY SS1 WITH THIN INTERBEDS OF CARBONACEOUS DARK GREY SILTSTONE. SOME CONVOLUTED BEDDING AT TOP OF UNIT. IRONSTONE BANDS AND NODULES COMMON THROUGHOUT UNIT.	77	100.00
									79	105.00
114.25	114.80	.55	COAL	3	1185	100		HARD, DULL. STICK CORE. GRADATIONAL CONTACT WITH UNIT BELOW.		
114.80	114.90	.10	MDST				COALY		84	112.00

TELKWA CORE DESCRIPTION

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LOG DATE 84/08/00
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TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
114.90	115.68	.78	MDST				CARBONACEOUS	OCCASIONAL THIN LENTICULAR INTERBEDS OF LIGHT GREY SS1.	85	115.00
115.68	116.86	1.18	COAL	3	1186	98		HARD, DULL. STICK CORE.		
116.86	117.62	.76	MDST				CARBONACEOUS	DARK GREY.		
117.62	117.92	.30	COAL	3	1187	100				
117.92	118.57	.65	MDST				CARBONACEOUS	DARK GREY.		
118.57	118.92	.35	COAL	3	1188	95				
118.92	123.44	4.52	MDST				CARBONACEOUS	DARK GREY. OCCASIONALLY GRADES TO SILTSTONE. FAIRLY MASSIVE.		
123.44	124.01	.57	COAL	2	1189	94		STICK CORE.		
124.01	124.94	.93	MDST				CARBONACEOUS	DARK GREY, OCCASIONAL SLICKENSIDE.		
124.94	125.22	.28	COAL	2	1190	49	HIGHLY SHEARED			
125.22	125.44	.22	MDST			49	CARBONACEOUS	DARK GREY. HIGHLY SHEARED.		
125.44	125.96	.52	COAL	2	1190		HIGHLY SHEARED			

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LOG DATE 84/08/00
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TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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125.96	130.80	4.84	SS1				SILTSTONE	LIGHT GREY SS1 INTERBEDDED WITH DARK GREY CARBONACEOUS SILTSTONE.	77	126.00
								ABUNDANCE OF IRONSTONE NODULES WITH CALCITE FILLED FISSURES.	73	128.00
								OCCASIONAL BIOTURBATION AND SOFT SEDIMENT DEFORMATION. SOME CONVOLUTED BEDDING.	71	129.00
									74	130.00
130.80	148.10	17.30	SLST					DARK GREY; MASSIVE (UNIT 2). OCCASIONAL CALCITE FILLED FRACTURE.		
148.10	148.10		UNKN					TOTAL DEPTH 148.1M.		

TELKWA CORE DESCRIPTION

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DRILL HOLE # TW84D-439

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR	LIHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	50.30	50.30	OB						HOLE ABANDDNE		
									DUE TO THICK		
									OVERBURDEN.		

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DRILL HOLE # TW84D-440

LOG DATE 84/08/00
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TOP	BASE	THICKNESS	MAJOR SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	4.00	4.00	OB				OVERBURDEN		
4.00	24.40	20.40	MDST				GREY-BLACK, WITH OCCASIONAL INTERBEDS OF LT GREY SS1. OCCASIONAL IRONSTONE NODULE.	65	10.00
								63	15.00
								70	17.00
								68	19.00
								64	22.00
24.40	29.90	5.50	SLST				DARK GREY. MASSIVE.		
29.90	31.00	1.10	SS1				GREEN. MASSIVE.		
31.00	39.53	8.53	SS1			SILTSTONE	LIGHT GREY SS1, WITH THIN INTERBEDS OF DARK GREY SILTSTONE. RARE 2CM BAND OF SALT AND PEPPER SS2. OCCASIONAL IRONSTONE NODULE.	69	32.00
								69	35.00
								74	37.00
								69	38.00
								72	39.00
39.53	39.79	.26	COAL			SHALEY	STICK CORE.		

TELKWA CORE DESCRIPTION

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LOG DATE 84/08/00
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TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
39.79	44.68	4.89	SLST				SS1	DARK GREY SILTSTONE WITH INTERBEDDED LIGHT GREY SS1. SOME BIOTURBATION. OCCASIONAL IRONSTONE NODULE.	74	40.00
									72	42.00
									69	44.00
44.68	45.53	.85	COAL	10	1242	100		STICK CORE.		
45.53	48.51	2.98	MDST				CARBONACEOUS	BLACK. COALY MATERIAL THROUGHOUT.		
48.51	49.13	.62	COAL	9	1243	100	SHALEY			
49.13	49.76	.63	MDST				CARBONACEOUS	BLACK. MASSIVE.		
49.76	51.59	1.83	COAL	8	1244	100				
51.59	55.70	4.11	MDST				CARBONACEOUS	BLACK. COALIFIED PLANT DEBRIS THROUGHOUT.		
55.70	55.98	.28	COAL							
55.98	70.88	14.90	SS1				SILTSTONE	INTERBEDDED LIGHT GREY SS1 AND DARK GREY SILTSTONE. OCCASIONAL IRONSTONE BAND.	70	56.00
									66	60.00

TELKWA CORE DESCRIPTION

 DRILL HOLE # TWB4D-440

01/03/85

LOG DATE 84/08/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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									60	65.00
									57	67.00
									56	68.00
70.88	71.33	.45	COAL	7	1245			STICK. OCCASIONAL THIN PYRITE BAND.		
71.33	75.38	4.05	MDST				CARBONACEOUS	OCCASIONAL THIN LENTICULAR INTERBEDS OF LIGHT GREY SS1. 10CM THICK IRONSTONE BAND AT 73.0M.	56	73.00
									62	74.00
									67	75.00
75.38	75.50	.12	COAL	6	1246	90		STICK CORE.		
75.50	75.56	.06	SLST			90		GREY. STICK CORE.		
75.56	76.30	.74	COAL	6	1246	90		STICK CORE.		
76.30	77.40	1.10	MDST				CARBONACEOUS		63	77.00
77.40	78.68	1.28	COAL	6	1247	100		STICK CORE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-440

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
78.68	79.10	.42	COAL	6	1247	100	SHALEY			
79.10	80.05	.95	MDST					IRONSTONE NODULES THROUGHOUT.		
80.05	80.42	.37	COAL	6	1248	81	SHALEY	STICK CORE.		
80.42	80.51	.09	MDST				CARBONACEOUS			
80.51	81.20	.69	IRST					CALCITE FILLED FRACTURES THROUGHOUT UNIT.		
81.20	81.75	.55	MDST				CARBONACEOUS	BLACK.		
81.75	82.50	.75	IRST					CALCITE FILLED FRACTURES THROUGHOUT.	66	82.00
82.50	82.76	.26	MDST				CARBONACEOUS	BLACK.	63	82.50
82.76	86.83	4.07	COAL	5	1249	94		STICK CORE.		
86.83	88.00	1.17	MDST				CARBONACEOUS	ABUNDANCE OF SLICKENSIDES AT TOP OF UNIT.		
88.00	88.26	.26	COAL	4	1250	100		STICK CORE.		
88.26	88.30	.04	PYRT							100

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TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
88.30	89.71	1.41	COAL	4	1250	100				
89.71	89.81	.10	BENT							
89.81	89.91	.10	MDST				COALY			
89.91	93.63	3.72	MDST				CARBONACEOUS	BLACK, FRIABLE, OCCASIONAL THIN BAND OF LT GREY SS1 AND SALT AND PEPPER SS2	68	90.00
									69	91.00
93.63	94.65	1.02	COAL	3	1251	100		STICK CORE.		
94.65	95.20	.55	MDST				CARBONACEOUS	BLACK.		
95.20	96.22	1.02	COAL	3	1252	96		STICK CORE.		
96.22	104.82	8.60	MDST				CARBONACEOUS	BLACK, FRIABLE.		
104.82	104.94	.12	COAL				SHALEY			
104.94	105.15	.21	MDST				CARBONACEOUS			

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TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
105.15	105.35	.20	COAL				SHALEY			
105.35	106.94	1.59	INTR					INTRUSIVE SILL OF BASIC TO INTERMEDIATE COMPOSITION.		
106.94	107.30	.36	COAL	2	1253	94		STICK CORE.		
107.30	107.38	.08	COAL	2	1253	94	SHALEY	STICK CORE.		
107.38	109.16	1.78	COAL	2	1253	94		STICK CORE.		
109.16	119.20	10.04	MDST				SS1/SILTSTONE	BLACK MUDSTONE WITH INTERBEDDED DARK GREY SILTSTONE AND LIGHT GREY SS1. OCCASIONAL IRONSTONE NODULES.	69	111.00
									69	114.00
									70	118.00
									71	119.00
119.20	145.00	25.80	SLST					MASSIVE. OCCASIONALLY GRADES TO VERY FINE GRAINED SANDSTONE. OCCASIONAL SHELL FRAGMENTS.		
145.00	145.00		UNKN					TOTAL DEPTH 145.0M.		

TELKWA CORE DESCRIPTION

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DRILL HOLE # TW84D-441

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TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	3.60	3.60	DB					OVERBURDEN		
3.60	10.80	7.20	SLST					DARK BROWN. MASSIVE. BREAKS ALONG BEDDING PLANES. RARE CONCRETIONARY NODULES 0.5CM IN DIAMETER.	67	5.00
									74	6.30
10.80	17.20	6.40	SS1				SILTSTONE	GREY. MASSIVE. RARE LIGHT GREY CALCITE CEMENTED NODULES.		
17.20	33.60	16.40	SLST				ARGILLACEOUS	DARK GREY. MASSIVE. VERY ARGILLACEOUS IN PART. RARE CONCRETIONARY NODULES 1.5CM IN DIAMETER.		
33.60	39.00	5.40	SLST				SANDY	DARK GREY-GREY. GRADES TO FINE GRAINED SANDSTONE IN PART. MASSIVE. RARE CALCITE FILLED FRACTURES AT 51 & 17 DEGREES TO CORE. TRACE IRONSTONE NODULES.		
39.00	43.40	4.40	MDST					DARK GREY; SILTY IN PART. MASSIVE.		
43.40	44.20	.80	MDST				SILTSTONE	LENTICULAR BEDDING. SILT LENSES < 0.5CM THICK, AND IRREGULAR TO WAVY. SLUMP STRUCTURES COMMON.	46	43.90
44.20	44.30	.10	COAL					DULL AND BRIGHT.		

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LOG DATE 84/08/00
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TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
44.30	46.60	2.30	SLST				MUDSTONE	THINLY INTERBEDDED AT TOP; MAINLY SILTSTONE TOWARD BASE.	45	44.60
									58	45.80
									63	46.60
46.60	87.00	40.40	MDST				SILTY	DARK GREY, MASSIVE, GRADING TO SILTSTONE IN PART. IRONSTONE CONCRETIONARY ZONES COMMON IN BASAL 15 METRES.	61	66.70
									64	72.30
									64	81.00
									65	85.80
87.00	89.64	2.64	SLST				SS1	BANDED DARK BROWN AND GREENISH GREY. LENTICULAR BEDDING. IRONSTONE CEMENTED IN PART.	45	88.30
									35	88.70
									44	89.00
									50	89.10
89.64	90.60	.96	COAL	10	1269	90		RECOVERED 90CM OF BROKEN STICK CONSISTING OF DULL COAL WITH RARE BRIGHT BANDS. SHARP VISUAL HW. & FW. CONTACTS, WITH GOOD MECHANICAL SEPARATION.		

TELKWA CORE DESCRIPTION

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DRILL HOLE # TWE4D-441

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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90.60	95.36	4.76	SLST				MUDSTONE	GREY-DARK GREY. WAVY TO THINLY INTERLAYERED BEDDING. VERY ARGILLACEOUS IN UPPER AND LOWER PARTS. BASAL 30CM BROKEN WITH POLISHED FRACTURE SURFACES	56	91.30
									60	92.00
									54	94.80
95.36	96.64	1.28	COAL	9	1270	70		RECOVERED 90CM OF BROKEN STICK CONSISTING OF DULL AND BRIGHT COAL. SHARP VISUAL CONTACTS WITH GOOD MECHANICAL SEPARATION.		
96.64	100.12	3.48	MDST				SILTY	DARK GREY. VERY THIN SILT LAMINAE AND LENSES IN PART.	52	99.80
100.12	100.40	.28	MDST				COALY	BLACK WITH OCCASIONAL BRIGHT VITRAIN BANDS.		
100.40	101.08	.68	MDST				SILTY	DARK GREY. DISSEMINATED PYRITE BAND 2CM THICK AT 100.6M.		
101.08	103.24	2.16	COAL	8	1271	90		RECOVERED 1.96M. OF BROKEN STICK CONSISTING OF DULL COAL WITH THIN (< .5 CM) BRIGHT BANDS. HW-GRADATIONAL OVER 10CM. DISSEMINATED PYRITE BAND 0.5CM THICK AT APPROX. 101.5M. 8CM SILT ZONE AT 102.84M. FW-GOOD VISUAL AND MECHANICAL SEPARATION.		
103.24	105.80	2.56	SLST				ARGILLACEOUS	DARK GREY. THINLY INTERLAYERED WITH LIGHT GREY SANDY LENSES	55	103.80

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TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
								AND STRINGERS.	54	105.70
105.80	125.72	19.92	SLST				SS1	GREENISH GREY SILTSTONE GRADING TO FINE GRAINED SANDSTONE IN PART; FINELY INTERLAYERED WITH DARK GREY ARGILLACEOUS SILTSTONE. IRONSTONE ZONES ARE COMMON THROUGHOUT INTERVAL.	60	108.00
									51	112.00
									49	112.80
									48	114.50
									56	115.10
									25	121.80
									44	123.50
									35	125.40
125.72	127.80	2.08	COAL	7	1272	100		MAINLY DULL WITH THIN (1-2MM) BRIGHT BANDS. TRACE PYRITE CRYSTALS. HW:-SHARP VISUAL AND MECHANICAL SEPARATION-UPPER 20CM IS DULL AND SOMEWHAT DIRTY. HARD BROWN CONCRETIONARY BAND WITH CALCITE FRACTURE FILLING, FROM 126.52M.-126.68M. ABUNDANT CALCITE FILLED MICRO-FRACTURES BASAL 25CM. POLISHED FRACTURE SURFACES AT 25 DEGREES TO CORE. FW-SHARP		

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TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
125.72	127.80	2.08	COAL	7	1272	100		VISUAL CONTACT. 2M. ZONE ABOVE FOOTWALL IS HIGHLY FRACTURED; WITH POLISHED SURFACES.		
127.80	137.20	9.40	SLST					GREY-DK GREY. SANDY IN PART; ARGILLACEOUS IN PART. IRONSTONE CONCRETIONARY ZONES ARE COMMON IN LOWER HALF OF UNIT.	54	130.20
137.20	137.50	.30	LS					BROWN. FINELY CRYSTALLINE. THIN CALCITE FILLED FRACTURES AT 32 DEG. TO CORE		
137.50	137.90	.40	SLST					HIGHLY FRACTURED IN PART. CONCRETIONARY IN PART.		
137.90	138.20	.30	SH				COALY	BLACK; CARBONACEOUS TO COALY.		
138.20	140.72	2.52	MDST					GREY. SILTY. CARBONACEOUS IN CENTRAL PART.		
140.72	141.10	.38	COAL	6	1273	100		DULL AND DIRTY. GRADATIONAL CONTACTS. OCCASIONAL THICK BRIGHT BANDS IN LOWER PART OF UNIT.		
141.10	141.64	.54	MDST					GREY. SLIGHTLY SILTY. CARBONACEOUS PLANT FRAGMENTS ON BEDDING SURFACES.		
141.64	141.92	.28	COAL	6	1274	100		DULL AND DIRTY, WITH OCCASIONAL BRIGHT BANDS < 5CM THICK. GRADATIONAL HW. CONTACT.		

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TOP ---	BASE ---	THICKNESS -----	MAJOR -----	SEAM -----	SAMPLE# -----	REC -----	MINOR LITHOLOGY -----	REMARKS -----	C.B.A. DEPTH -----
141.92	142.15	.23	COAL	6	1274	100		DULL AND BRIGHT BANDED COAL.	
142.15	142.32	.17	COAL	6	1274	100		DULL AND DIRTY WITH OCCASIONAL BRIGHT BANDS < 3MM THICK.	
142.32	142.84	.52	COAL	6	1274	100		DULL AND BRIGHT BANDED < 5MM THICK. SHARP VISUAL FW. CONTACT.	
142.84	144.36	1.52	MDST					BROWNISH GREY, SILTY IN UPPER PART; DARK GREY-BLACK AND CARBONACEOUS IN LOWER PART.	
144.36	144.56	.20	COAL	6				MAINLY BRIGHT-LUSTROUS. GRADATIONAL CONTACTS.	
144.56	145.00	.44	MDST				CARBONACEOUS	DARK GREY-BLACK, WITH OCCASIONAL BRIGHT COAL BANDS 2-3MM THICK.	
145.00	146.28	1.28	COAL	6	1275	100		DULL AND BRIGHT BANDED (BRIGHT BANDS ARE < 4CM THICK). GRADATIONAL UPPER AND LOWER CONTACTS.	
146.28	147.32	1.04	MDST					DARK GREY. SILTY. SLIGHTLY CARBONACEOUS IN PART.	
147.32	147.64	.32	COAL	6	1276	100		DULL AND DIRTY, WITH OCCASIONAL THICK BRIGHT BANDS, WHICH HAVE ABUNDANT CALCITE FILLED CLEAT	

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TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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								FRACTURES.		
147.64	150.32	2.68	MDST				SILTY	30CM CARBONACEOUS TO COALY ZONE AT 148.2M.		
150.32	150.68	.36	MDST				CARBONACEOUS			
150.68	151.56	.88	SLST					DARK GREY. WAVY BEDDING. 20CM HARD BROWN CONCRETIONARY ZONE AT 150.72M.	75	151.00
									65	151.10
151.56	152.28	.72	COAL	5	1277	100		DULL AND BRIGHT BANDED. HW-GOOD VISUAL AND MECHANICAL SEPARATION FW-GRADATIONAL INTO UNIT BELOW.		
152.28	154.40	2.12	SLST				CARBONACEOUS	DARK GREY-GREY. VERY CARBONACEOUS APPROACHING CONTACTS ABOVE AND BELOW. PLANT FRAGMENTS COMMON ON BEDDING SURFACES.		
154.40	154.96	.56	COAL	5	1278	100		DULL AND BRIGHT (2-3MM) BANDED. VERY GRADATIONAL CONTACTS ABOVE AND BELOW. THIN CALCITE FILLED CLEAT FRACTURES ARE COMMON IN THICKER BRIGHT BANDS.		
154.96	156.16	1.20	SLST					GREY. SANDY. CARBONACEOUS FLECKS COMMON ON BEDDING SURFACES. 15CM IRONSTONE CONCRETIONARY ZONE AT BASE OF UNIT.		

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LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINDR LIHOLOGY	REMARKS	C.B.A.	DEPTH
156.16	156.64	.48	SH				CARBONACEOUS	DARK GREY-BLACK, VERY CARBONACEOUS. GRADATIONAL INTO COAL BELOW.		
156.64	156.88	.24	CDAL	5		100		DULL, DIRTY WITH BRIGHT BANDS (2MM THICK) COMMON.		
156.88	157.28	.40	SH				COALY			
157.28	157.56	.28	SLST					BREAKS ALONG HIGHLY POLISHED WAXY FRACTURE SURFACES.		
157.56	158.12	.56	COAL	5	1279	100		DULL WITH BRIGHT BANDS 1-3MM THICK.		
158.12	158.28	.16	BENT					DARK BROWN. COALY FRAGMENTS ON BEDDING SURFACES.		
158.28	159.56	1.28	COAL	5	1279	100		DULL WITH BRIGHT BANDS 1-2MM THICK. DIRTY NEAR BASAL CONTACT; BUT GOOD VISUAL AND MECHANICAL SEPARATION AT FW.		
159.56	161.20	1.64	SLST					GREY. PLANT FRAGMENTS COMMON ON BEDDING SURFACES.		
161.20	164.20	3.00	SS1				SILTSTONE		70	161.80
									68	163.40
									78	163.60

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-441

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
164.20	164.50	.30	SH				COALY			
164.50	166.20	1.70	SLST				SS1	FINING UPWARD CYCLE. COALY FRAGMENTS COMMON ON BEDDING PLANES.	84	165.20
166.20	167.80	1.60	SLST					GREY.		
167.80	168.30	.50	SS2				SS1	LIGHT GREY, SALT AND PEPPER. RARE COALY FRAGMENTS.	86	168.10
168.30	169.04	.74	SLST					DARK GREY. INCREASINGLY CARBONACEOUS TOWARD BOTTOM OF UNIT-GRADATIONAL INTO COAL BELOW.		
169.04	169.84	.80	COAL	4	1280	100		DIRTY GRADATIONAL CONTACTS ABOVE AND BELOW. REMAINDER OF COAL IS DULL WITH BRIGHT BANDS UP TO 0.5CM THICK. CALCITE FILLED CLEFT FRACTURES ARE COMMON IN BRIGHT BANDS. DIRT BAND AT 169.36M.		
169.84	170.64	.80	SLST					GREY. CARBONACEOUS PLANT FRAGMENTS COMMON ON BEDDING PLANES. VERY CARBONACEOUS TO COALY AT BASE GRADATIONAL INTO COAL BELOW.		
170.64	170.84	.20	COAL	4				DULL AND DIRTY WITH OCCASIONAL BRIGHT BANDS. GRADATIONAL CONTACTS ABOVE AND BELOW.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-441

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.E.A.	DEPTH
170.84	171.40	.56	SLST					CARBONACEOUS. PLANT FRAGMENTS ABUNDANT.		
171.40	171.56	.16	COAL	4				DULL WITH BRIGHT BANDS. GRADATIONAL CONTACTS ABOVE AND BELOW.		
171.56	172.16	.60	SLST				CARBONACEOUS	DARK GREY. 8CM THICK IRDNSTONE BAND, BELOW COAL OF UNIT ABOVE.		
172.16	172.64	.48	COAL	4	1281	100		DULL WITH BRIGHT BANDS. GRADATIONAL CONTACTS WITH CARBONACEOUS UNITS ABOVE AND BELOW.		
172.64	179.76	7.12	SLST				SS1	DARK GREY-GREY. CARBONACEOUS IN PART. INCLUDES AT LEAST 3 FINING UPWARD CYCLES. (SS-SLST-CARB SLST)	73	175.90
179.76	180.56	.80	COAL	3	1282	100		DULL WITH SOME BRIGHT BANDS. DIRTY GRADATIONAL CONTACTS.		
180.56	181.48	.92	SLST					BROWNISH GREY. CARBONACEOUS PLANT FRAGMENTS COMMON ON BEDDING PLANES.		
181.48	181.80	.32	COAL	3	1283	100		DULL TO SEMI-LUSTROUS, WITH OCCASIONAL BRIGHT BANDS.		
181.80	182.06	.26	COAL	3	1283	100	DIRTY	THIN SILT STRINGERS AT TOP OF UNIT.		
182.06	182.24	.18	SH				COAL	VERY DIRTY COAL. SOME SILT		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-441

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A. DEPTH
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182.24	182.44	.20	COAL	3	1283	100		BANDS. DULL, WITH BRIGHT BANDS UP TO 0.5CM THICK.	
182.44	183.54	1.10	SH				COALY	5CM OF GREY SILT MARKS TOP OF UNIT. DECREASING COAL CONTENT DOWNWARD; FROM VERY DIRTY COAL TO CARBONACEOUS SILT AT BASE.	
183.54	184.88	1.34	SLST					DARK GREY. ARGILLACEOUS.	
184.88	185.20	.32	COAL	3				DULL AND SOMEWHAT DIRTY WITH OCCASIONAL BRIGHT BANDS. VERY GRADATIONAL FOOTWALL CONTACT.	
185.20	186.50	1.30	SLST					VERY CARBONACEOUS IN UPPER 50CM.	
186.50	186.65	.15	SH				COALY		
186.65	188.60	1.95	SLST					BROWNISH GREY. CARBONACEOUS PLANT FRAGMENTS COMMON ON BEDDING PLANES.	
188.60	189.90	1.30	SS1					LIGHT GREY. TRACE COALY FRAGMENTS.	
189.90	190.10	.20	SH				COALY		
190.10	192.80	2.70	SLST					LIGHT GREY AND SANDY AT TOP	

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-441

LOG DATE 84/08/00
EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINDR LIHOLOGY	REMARKS	C.B.A.	DEPTH
								BECOMING MORE ARGILLACEOUS DOWNWARD.		
192.80	193.30	.50	SS1					GREY. TRACE CARBONACEOUS PLANT FRAGMENTS ON BEDDING SURFACES.	75	193.20
193.30	196.70	3.40	SLST					GREY-DARK GREY. SANDY IN PART. CARBONACEOUS PLANT FRAGMENTS COMMON.		
196.70	196.90	.20	SH				CARBONACEOUS			
196.90	197.80	.90	SS1					BROWN.		
197.80	199.00	1.20	MDST					BROWN; SILTY.		
199.00	201.60	2.60	SS2					LIGHT GREY, SALT AND PEPPER. GRADES TO COARSE GRAINED SS IN PART. SHARP CONTACT AT BASE.	66	199.20
									64	201.60
201.60	211.40	9.80	SLST					GREY-DARK GREY; CARBONACEOUS TO COALY IN PART.		
211.40	216.80	5.40	SLST				SANDY	GREY-LIGHT GREY.	65	214.00
216.80	219.50	2.70	SS1					OCCASIONAL FRAGMENTS OF VOLCANICS.		
219.50	222.00	2.50	VOLC				BRECCIA	BLEACHED.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TWR4D-441

01/03/85

LOG DATE 84/08/00
 EXAMINED BY S. CAMERON

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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222.00	224.60	2.60	VOLC					RED		
224.60	224.60		UNKN					TOTAL DEPTH 224.6M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-442

LOG DATE 84/08/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINDR LITHOLOGY	REMARKS	C.B.A.	DEPTH
.00	12.80	12.80	DB					OVERBURDEN		
12.80	12.83	.03	SLST					GREY		
12.83	15.32	2.49	COAL	2	1191	75		RECOVERED 1.87M. OF BROKEN STICK CORE CONSISTING OF DULL TO SEMI- LUSTROUS COAL WITH RARE VERY THIN BRIGHT BANDS, AND RARE THIN CALCITE FILLED FRACTURES. CONTACTS ARE VISUALLY SHARP AND SEPARATE EASILY.		
15.32	24.90	9.58	MDST				SILTSTONE	DARK GREY SILTY MUDSTONE WITH THIN LENSES, STRINGERS AND INTERBEDS (< 1CM THICK) OF GREY SILTSTONE. BROWN CONCRETIONARY ZONES < 15CM THICK ARE COMMON IN LOWER PART OF UNIT.	67	17.90
									65	20.60
									62	21.00
									64	23.40
24.90	40.80	15.90	SLST					GREY; MASSIVE.		
40.80	43.40	2.60	SS1				SILTSTONE	GREY-GREENISH GREY. MASSIVE, WITH OCCASIONAL REDISH BROWN CM INTERBEDS	65	41.70
43.40	54.00	10.60	SLST				IRONSTONE	GREY. WAVY INDISTINCT BEDDING. NUMEROUS BROWN CONCRETIONARY ZONES UP TO 25CM THICK, THROUGHOUT UNIT. IRONSTONE NOODULES (0.5-2CM)		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWE4D-442
-----LOG DATE 84/08/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LIHOLOGY	REMARKS	C.B.A.	DEPTH
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								COMMON IN UPPER PART OF UNIT.		
54.00	84.10	30.10	SLST					GREY-DARK GREY; MOTTLED WITH LIGHT GREY, IN ZONES WITHIN BASAL HALF OF UNIT WHERE BURROWING IS COMMON. BEDDING IS MAINLY INDISTINCT.		
84.10	84.70	.60	SLST				BENTONITE	RECOVERED 5CM OF LIGHT GREY BENTONITE INTERBEDDED WITH GREY SILTSTONE.		
84.70	97.60	12.90	SLST					GREY-DARK GREY. INDISTINCT TO WAVY BEDDING. RARE CONCRETIONARY ZONES 10CM THICK.	73	91.20
97.60	101.80	4.20	SLST				MUDSTONE	MAINLY GREENISH GREY SANDY SILTSTONE WITH THIN INTERBEDS OF DARK GREY SILTY MUDSTONE. BIOTURBATED (BURROWS) IN PART.	70	97.80
									75	101.30
101.80	105.80	4.00	SS1				SILTSTONE	GREY SILTSTONE TO FINE GRAINED SANDSTONE WITH RARE DARK GREY ARGILLACEOUS STRINGERS AND PARTINGS. TRACE CONCRETIONARY ZONES < 10CM THICK. TRACE BURROWS.	65	102.50
105.80	108.10	2.30	SS					LIGHT GREY FINE-MEDIUM GRAINED. MASSIVE. TRACE CARBONACEOUS PARTINGS.		
108.10	121.70	13.60	SLST					GREENISH GREY SANDY SILTSTONE.	69	112.00

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWE4D-442

LOG DATE 84/08/00
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.E.A.	DEPTH
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								WITH THIN INTERBEDS AND STRINGERS OF DK GREY SILTY MUDSTONE, BIOTURBATION COMMON. CONCRETIONARY ZONES THROUGHOUT UNIT.	72	116.50
121.70	127.20	5.50	SS1				SILTSTONE	GREENISH GREY, SILTSTONE-FINE GRAINED SANDSTONE. MASSIVE, BIOTURBATED IN PART.	71	124.00
127.20	139.30	12.10	SLST					GREENISH GREY SILTSTONE, INTERBEDDED IN PART WITH DARK GREY SILTY MUDSTONE. BIOTURBATION COMMON. THIN CONCRETIONARY ZONES < 5CM THICK ARE COMMON.	74	128.00
									72	130.50
139.30	139.30		UNKN					TOTAL DEPTH 139.3M. (LOGGED BY P. HICKEY)		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-443

01/03/85

LOG DATE 84/08/00
 EXAMINED BY B. MCKINSTRY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	13.53	13.53	OB					OVERBURDEN		
13.53	13.83	.30	SH					DARK GREY. SILTY AND COALY. FRIABLE.	80	13.80
13.83	15.01	1.18	COAL	8	1192	64		HARD, DULL WITH 2-3CM THICK BANDS OF BRIGHT COAL.		
15.01	16.00	.99	SH					COALY.		
16.00	16.14	.14	COAL							
16.14	16.57	.43	SH					DARK GREY. COALY.		
16.57	16.72	.15	COAL							
16.72	17.70	.98	MDST					MEDIUM GREY. SILTY.		
17.70	22.73	5.03	SLST				MUDSTONE	LAMINATED LIGHT AND DARK GREY. 1-5CM THICK INTERBEDS.	76	17.90
									65	18.10
									70	18.70
									75	20.50

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-443

LOG DATE 84/08/00
EXAMINED BY B. MCKINSTRY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
22.73	23.92	1.19	MDST					DARK GREY-BLACK.		
23.92	27.31	3.39	SLST					LIGHT GREY, WITH OCCASIONAL BLEBS OF COAL. POORLY BANDED BUT MODERATE BANDING AND MORE SANDY AT BASE. NUMEROUS PLANT FRAGMENTS.	65	26.83
27.31	31.21	3.90	SS					MEDIUM GRAINED WITH OCCASIONAL PLANT FRAGMENTS. RIP-UP CLASTS AT BASE.	58	29.95
31.21	31.59	.38	SLST							
31.59	34.04	2.45	MDST					LIGHT AND DARK GREY. COALY AT 32.6M.	78	33.00
34.04	34.84	.80	COAL	7	1193	92		PYRITE STRINGERS AT TOP OF SEAM. BRIGHT AND HARD.		
34.84	36.36	1.52	MDST					DARK GREY-BLACK. COALY STRINGERS POORLY BEDDED.		
36.36	36.60	.24	COAL							
36.60	39.70	3.10	MDST					AS AT 34.84M.	76	39.50
39.70	39.80	.10	IRST					TAN BROWN WITH CALCITE VEINLETS.		
39.80	41.50	1.70	MDST					AS ABOVE AT 39.7M.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-443

LOG DATE 84/08/00
EXAMINED BY B. MCKINSTRY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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41.50	47.85	6.35	SLST				SANDSTONE	LAMINATED WITH SANDY LIGHT GREY INTERBEDS.	70	41.70
									69	44.60
									66	47.30
47.85	49.12	1.27	SS					MEDIUM GRAINED LIGHT GREY EQUIGRANULAR WITH OCCASIONAL COAL BLEBS NO BEDDING.		
49.12	49.36	.24	MDST				COAL	LIGHT-DARK GREY. COALY AT BASE. NO BEDDING.		
49.36	50.00	.64	COAL	6	1194	100		SLICKED SURFACES WITH CALCITE BLEBS. BRIGHT.		
50.00	50.68	.68	MDST				COAL	DARK GREY-BLACK. COAL BANDS. CARBONACEOUS FRACTURES.		
50.68	51.39	.71	COAL	6	1195	100		PYRITE STRINGERS AT TOP OF SEAM. SLICKED SURFACES AND CALCITE BLEBS.		
51.39	51.60	.21	MDST					BLACK. COAL BANDS.		
51.60	51.74	.14	COAL	6				POWDERY.		
51.74	51.88	.14	MDST					DARK GREY-BLACK. COAL BANDS.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TWB4D-443

LOG DATE 84/08/00
EXAMINED BY B. MCKINSTRY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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51.88	51.98	.10	COAL	6				POWDERY.		
51.98	53.60	1.62	MDST					LIGHT GREY.		
53.60	54.16	.56	COAL	6	1196	84		MUDSTONE BANDS		
54.16	54.26	.10	MDST		1196	84		LIGHT GREY. COALY. CALCITE STRINGERS.		
54.26	54.44	.18	COAL	6	1196	84				
54.44	55.28	.84	MDST					DARK GREY-BLACK; COALY, SILTY INTERBEDS.	72	55.10
55.28	56.45	1.17	COAL	6	1197	100		BRIGHT BANDS		
56.45	58.30	1.85	MDST					GREY-DARK GREY, MASSIVE.		
58.30	61.21	2.91	SLST				SANDSTONE INTERBEDS	LAMINATED, LIGHT-DARK GREY, OCCASIONAL IRONSTONE NODULES AND COAL STRINGERS	68	59.00
61.21	62.71	1.50	MDST				SILTY	GREY, COALY, OCCASIONAL IRONSTONE NODULES.		
62.71	65.40	2.69	SLST					AS AT 58.3M.	72	63.00

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-443

01/03/85

LOG DATE 84/08/00
 EXAMINED BY B. MCKINSTRY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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									76	65.00
65.40	66.50	1.10	MDST					DARK GREY-BLACK. FEATURELESS. COALY.		
66.50	67.30	.80	COAL	5	1198	100		SILTY AT TOP. 1-3MM BANDS OF COARSE, BRIGHT COAL.		
67.30	72.20	4.90	MDST				COAL	GREY-BLACK. COALY AT BASE. POORLY BEDDED.	81	69.50
									68	71.80
72.20	72.50	.30	COAL		1199	100				
72.50	73.46	.96	MDST					DARK GREY-GREY. COAL ROOTLETS.		
73.46	73.54	.08	IRST					LIGHT TAN, CALCITE VEINLETS.		
73.54	77.60	4.06	MDST					DARK GREY-BLACK. OCCASIONAL COAL BLEBS/IRONSTONE BANDS.		
77.60	86.30	8.70	SLST					LIGHT GREY-GREY.	90	78.20
									90	79.20
86.30	87.16	.86	MDST					GREY. SILTY, COALY AND SLICKED.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW840-443

LOG DATE 84/08/00
EXAMINED BY B. MCKINSTRY

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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87.16	88.50	1.34	COAL	2	1200	100		SLICKED. WHITE CALCITE VEINLETS AND STRINGERS.		
88.50	90.16	1.66	MDST					DARK GREY-BLACK		
90.16	91.92	1.76	COAL	2	1200A	93		OCCASIONAL BANDS OF MUDSTONE. 1-3MM BANDS OF COARSE, BRIGHT COAL.		
91.92	100.31	8.39	MDST					OCCASIONAL THIN BANDS OF IRONSTONE AND SILTSTONE. GREY-DARK GREY WITH COAL STRINGERS AND ROOTLETS. CALCITE FRACTURES AT 93.0M. 12 DEGREES TO CORE. VERY DARK AND COALY AT BASE.		
100.31	100.47	.16	VOLC				CONTACT	WEATHERED. BRECCIA MATERIAL COMPOSED OF SEDIMENTS, COAL AND VOLCANIC FRAGMENTS.		
100.47	105.80	5.33	VOLC					DACITIC LAVA. PALE GREEN, WITH OCCASIONAL PHENOCRYSTS OF PYRITE; AMYGDULES AND VOLCANIC FRAGMENTS.		
105.80	111.86	6.06	VOLC					SIMILAR TO ABOVE; BUT WITH PATCHES OF HEMATITIC ANDESITE PRODUCING A BLOTCHY APPEARANCE OF LIGHT GREEN AND DARK RED. VERY FINE GRAINED.		
111.86	111.86		UNKN					TOTAL DEPTH 111.86M.		

TELKWA CORE DESCRIPTION

 DRILL HOLE # TW84D-444

01/03/85

LOG DATE 84/05/09
 EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
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.00	9.97	9.97	DB					OVERBURDEN		
9.97	32.70	22.73	SS2				MINOR CALCITE BANDING	GREY; MICACEOUS. MINOR COAL TRACES. IRONSTONE BANDS. SILTY AT BOTTOM.	57	17.40
									54	26.40
32.70	67.47	34.77	SLST					DARK GREY. MINOR COAL TRACES. POORLY DEVELOPED BEDDING. COALY TOWARDS	75	61.20
								BASE. 10CM THICK COAL AT 66.80M.	63	66.80
67.47	68.84	1.37	COAL	6	1262	54		RECOVERED:0.74M. BROKEN CORE. BRIGHT VITRAIN BANDING.	61	68.00
68.84	76.92	8.08	SLST					DARK GREY; CARBONACEOUS.		
76.92	77.34	.42	COAL	5	1263	43		RECOVERED:0.18M.		
77.34	77.45	.11	SLST				CARBONACEOUS			
77.45	77.58	.13	COAL					RECOVERED:0.02M.		
77.58	77.72	.14	SLST				COALY	BLACK		
77.72	77.86	.14	COAL					LOST CORE.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-444

LOG DATE 84/05/09
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
77.86	78.66	.80	SLST				COALY	SANDY.		
78.66	86.24	7.58	SS1				SILTSTONE INTERBEDDED	MINOR IRONSTONE BANDING.		
86.24	87.04	.80	SLST				COALY	BLACK		
87.04	87.48	.44	COAL	4	1264	75		MAINLY DULL; VERY HIGH ASH. RECOVERED:0.33M.	74	87.10
87.48	95.10	7.62	SLST				SS1 INTERBEDDED	DARK GREY.		
95.10	98.65	3.55	SLST					DARK GREY. MINOR COAL TRACES.		
98.65	99.04	.39	COAL	3	1265	49		BRIGHT, CLEAN. RECOVERED:0.19M.		
99.04	99.88	.84	SLST				MINOR SS1	DARK GREY.		
99.88	101.46	1.58	COAL	3	1266	66		MAINLY DULL WITH HIGH ASH. RECOVERED 11CM OF 18CM THICK SILT AT 100.56M.	74	101.10
101.46	101.70	.24	SLST				COALY	BLACK		
101.70	101.90	.20	COAL					RECOVERED:0.03M.		

TELKWA CORE DESCRIPTION

01/03/85

DRILL HOLE # TW84D-444

LOG DATE 84/05/09
EXAMINED BY J. EISENMAN

TOP	BASE	THICKNESS	MAJOR	SEAM	SAMPLE#	REC	MINOR LITHOLOGY	REMARKS	C.B.A.	DEPTH
101.90	106.72	4.82	SLST				MINOR SS1 BANDING	MAINLY DARK GREY.		
106.72	107.86	1.14	COAL	2	1267	82		RECOVERED: 0.94M. DULL BANDED; VERY HIGH ASH.		
107.86	108.06	.20	SLST							
108.06	109.44	1.38	COAL	2	1268	72		MAINLY DULL WITH VITRAIN BANDS. VERY HIGH ASH. RECOVERED: 1.00M.	78	109.30
109.44	119.15	9.71	SLST					DARK GREY. MINOR SS1 INTERVALS. SEVERAL PYRITE BLEBS.		
119.15	123.60	4.45	VOLC					RED. LOWER 2M. GREEN.		
123.60	123.60		UNKN					TOTAL DEPTH 123.6M.		

ACID-BASE ACCOUNT DATA

TELKWA PROJECT

CORES 409, 411, 412, 418
AND 438

CROWS NEST RESOURCES, LIMITED

P. O. Box 2699, Station M
Calgary, Alberta, Canada T2P-27M

Sturm Environmental Services, Inc.

P. O. Box 650
Bridgeport, West Virginia 26330

OCTOBER, 1984

00240
part 3

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 409

Date: OCTOBER 29, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (METERS)	Strata Thick. (MTRS.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
A	0-3.50	3.50		0	10YR 8/2	.035	1.09	9.61		8.52	6.8
B	3.50-6.10	2.60		0	10YR 7/2	.029	.91	14.87		13.96	7.4

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 409

Date: OCTOBER 26, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (Meters)	Strata Thick. (Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
1	6.10-10.00	3.90	SLST	1	5Y 6/1	.623	19.47	19.69		.22	8.6
2	10.00-14.00	4.00	SLST	5	10YR 7/1	.165	5.16	129.57		124.41	9.0
3	14.00-17.00	3.00	SLST	3	10YR 7/1	.193	6.03	102.90		96.87	9.2
4	17.00-20.00	3.00	SLST	1	10YR 7/1	.234	7.31	23.95		16.64	9.3
5	20.00-23.00	3.00	SLST	1	10YR 7/1	.303	9.47	22.74		13.27	9.3
6	23.00-26.00	3.00	SLST	1	10YR 7/1	.269	8.41	23.34		14.93	9.5
7	26.00-28.00	2.00	SLST	1	10YR 6/1	.259	8.09	20.63		12.54	9.5
8	28.00-30.00	2.00	SLST	1	10YR 7/1	.357	11.16	22.31		11.15	9.4
9	30.00-33.00	3.00	SLST	4	2.5Y 8/0	.094	2.94	165.85		162.91	9.6
10	33.00-34.50	1.50	SLST	0	10YR 5/1	.563	17.59	19.38		1.79	9.3
11	34.50-34.80	.30	SLST	0	5Y 4/1	.765*	23.91	12.54	11.37		9.3
12	34.80-35.12	.32	SLST	0	5Y 5/1	2.94*	91.88	8.76	83.12		6.1
-	35.12-36.22	1.10	COAL								
13	36.22-36.42	.20	SLST	0	10YR 6/1	.178	5.56	8.36		2.80	8.4
14	36.42-37.00	.58	SLST	0	2.5Y 6/0	.219	6.84	22.34		15.50	8.8
15	37.00-39.00	2.00	SLST	1	10YR 7/0	.319	9.97	35.24		25.27	9.4
16	39.00-41.00	2.00	SLST	1	2.5Y 7/0	.660	20.62	29.39		8.77	9.6
17	41.00-41.40	.40	SLST	0	5Y 7/1	.777	24.28	15.12		9.16	9.5
18	41.40-41.64	.24	SLST	0	5Y 4/1	.813*	25.41	5.38	20.03		8.1
-	41.64-44.62	2.98	COAL								

*Pyritic Sulfur

MAIN OFFICE — POST OFFICE BOX 650 • BRIDGEPORT, WEST VIRGINIA 26330 • (304) 623-6549
 CHARLESTON BRANCH — POST OFFICE DRAWER F • MARMET, WEST VIRGINIA 25315 • (304) 949-5199

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 409

Date: OCTOBER 26, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (METERS)	Strata Thick(MTRS.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
19	44.62-44.82	.20	SLST	0	5Y 6/1	.189	5.91	31.54		25.63	9.5
20	44.82-45.00	.18	SLST	0	5Y 6/1	.093	2.91	18.01		15.10	9.6
21	45.00-47.00	2.00	SLST	0	5Y 4/1	.874*	27.31	14.40	12.91		9.3
22	47.00-49.00	2.00	SLST	0	5Y 4/1	1.16*	36.25	18.19	18.06		9.2
23	49.00-50.50	1.50	SLST	5	5Y 8/1	.019	.59	701.10		700.51	9.2
24	50.50-51.40	.90	SLST	0	5Y 6/1	.341	10.66	25.96		15.30	9.3
25	51.40-51.70	.30	SLST	0	5Y 5/1	.442	13.81	23.59		9.77	9.0
26	51.70-51.92	.22	SLST	0	5Y 5/1	.547*	17.09	11.54	5.55		8.9
-	51.92-53.88	1.96	COAL								
27	53.88-54.26	.38	CLST	0	5Y 6/1	1.46*	45.63	5.44	40.19		6.1
-	54.26-55.50	1.24	COAL								
28	55.50-55.70	.20	SLST	0	5Y 5/1	.404	12.62	10.10	2.52		8.2
29	55.70-56.00	.30	SLST	1	5Y 7/1	.232	7.25	32.32		25.07	9.1
30	56.00-59.00	3.00	SLST	0	5Y 7/1	.239	7.47	28.45		20.98	9.2

*Pyritic Sulfur

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CHARLESTON BRANCH — POST OFFICE DRAWER F • MARMET, WEST VIRGINIA 25315 • (304) 949-5199

SULFUR FRACTIONATIONS

CROWS NEST RESOURCES
TELKWA PROJECT, CORE 409
OCTOBER 29, 1984

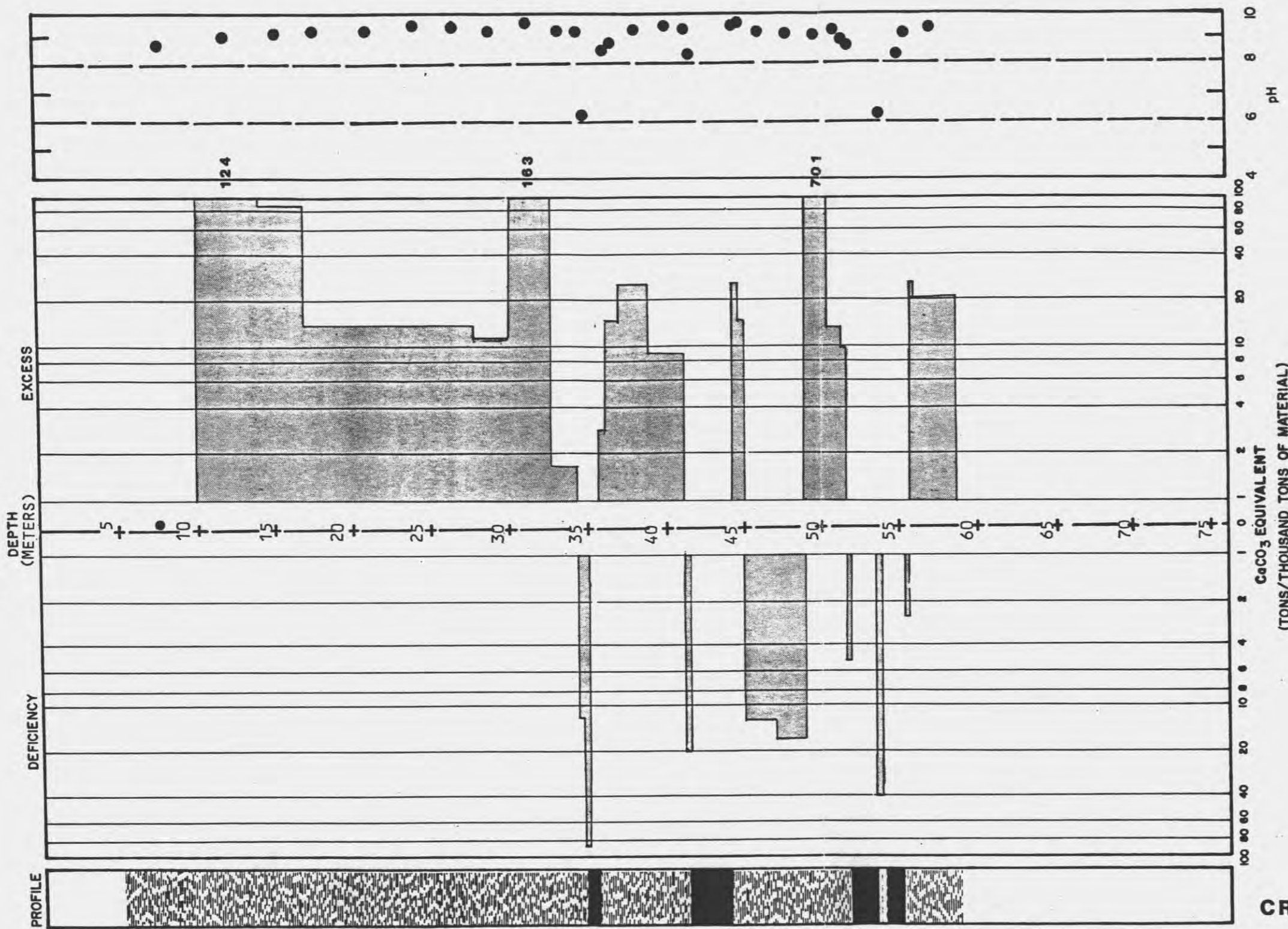
<u>SAMPLE NUMBER</u>	<u>TOTAL SULFUR (%)</u>	<u>PYRITIC SULFUR (%)</u>	<u>SULFATE SULFUR (%)</u>	<u>ORGANIC SULFUR (%)</u>
11	.954	.765	.189	<.005
12	3.73	2.94	.599	.187
18	1.23	.813	.125	.292
21	.931	.874	.057	<.005
22	1.38	1.16	.059	.160
26	.601	.547	.049	.005
27	1.66	1.46	.106	.090

DRAWING NUMBER

CHECKED BY
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CORE: 409



TELKWA PROJECT

CORE 409

CROWS NEST RESOURCES, LTD

ACID-BASE CHARACTERISTICS

Sturm Environmental Services

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 411

Date: OCTOBER 29, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (Meters)	Strata Thick. (Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
A	0-2.50	2.50		5	10YR 7/2	.024	.75	100.43		99.68	7.7
B	2.50-3.50	1.00		2	10YR 6/1	.776	24.25	42.40		18.15	7.7
C	3.50-4.25	.75		0	10YR 4/1	.395*	12.34	15.04		2.70	7.0
D	4.25-6.10	1.85		0	10YR 7/1	.406	12.69	57.25		44.56	7.5

*Pyritic Sulfur

Sturm Environmental Services

John W. Sturm, President

SULFUR FRACTIONATIONS

CROWS NEST RESOURCES
TELKWA PROJECT, CORE 411
OCTOBER 31, 1984

<u>SAMPLE NUMBER</u>	<u>TOTAL SULFUR (%)</u>	<u>PYRITIC SULFUR (%)</u>	<u>SULFATE SULFUR (%)</u>	<u>ORGANIC SULFUR (%)</u>
C	.744	.395	.059	.290

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 411

Date: OCTOBER 30, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (Meters)	Strata Thick. (Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
1	6.10-10.00	3.90	SS/SLST	2	10YR 7/1	.257	8.03	56.31		48.28	7.5
2	10.00-13.00	3.00	SS/SLST	0	5Y 6/1	.400	12.50	26.10		13.60	7.6
3	13.00-15.00	2.00	SS/SLST	0	5Y 6/1	.268	8.38	35.17		26.79	7.9
4	15.00-18.00	3.00	SS/SLST	0	5Y 6/1	.838*	26.19	23.61	2.58		7.6
5	18.00-20.40	2.40	SLST/SS	0	5Y 6/1	.886*	27.69	24.93	2.76		7.4
6	20.40-20.60	.20	SLST/SS	0	5Y 6/1	.761	23.78	30.44		6.66	7.6
7	20.60-20.80	.20	SLST/SS	0	5Y 6/1	2.49*	77.81	23.74	54.07		6.4
-	20.80-22.20	1.40	COAL								
8	22.20-22.40	.20	SLST/SS	0	5Y 6/1	.250	7.81	22.62		14.81	7.9
9	22.40-22.60	.20	SLST/SS	0	5Y 6/1	.219	6.84	33.20		26.36	8.0
10	22.60-25.00	2.40	SLST/SS	2	5Y 6/1	.253	7.91	39.83		31.92	8.4
11	25.00-26.60	1.60	SLST/SS	2	5Y 6/1	.418	13.06	51.54		38.48	8.4
12	26.60-27.00	.40	SLST/SS	2	5Y 6/1	.625	19.53	48.61		29.08	8.4
13	27.00-27.40	.40	SLST/SS	1	5Y 6/1	.475	14.84	34.50		19.66	8.3
14	27.40-27.64	.24	SLST/SS	0	5Y 6/1	.778	24.31	30.98		6.67	7.0
-	27.64-29.90	2.26	COAL								
15	29.90-30.10	.20	SLST/SS	0	5Y 6/1	.150	4.69	16.51		11.82	7.7
16	30.10-30.30	.20	SLST/SS	0	5Y 5/1	.058	1.81	30.04		28.23	8.4
17	30.00-34.00	4.00	SLST/SS	0	5Y 4/1	.603*	18.84	17.52	1.32		7.5
18	34.00-36.50	2.50	SLST/SS	2	10YR 7/1	.076	2.38	63.80		61.42	8.8

*Pyritic Sulfur

MAIN OFFICE — POST OFFICE BOX 650 • BRIDGEPORT, WEST VIRGINIA 26330 • (304) 623-6549
CHARLESTON BRANCH — POST OFFICE DRAWER F • MARMET, WEST VIRGINIA 25315 • (304) 949-5199

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 411

Date: OCTOBER 30, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (Meters)	Strata Thick(Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
19	36.50-37.25	.75	SLST/SS	2	5Y 5/1	.382	11.94	14.47		2.53	8.5
20	37.25-37.45	.20	SLST/SS	0	5Y 4/1	.967*	30.28	24.62	5.66		6.6
21	37.45-37.65	.20	SLST/SS	0	5Y 4/1	1.27*	39.69	5.15	34.54		4.9
-	37.65-38.67	1.02	COAL								
22	38.67-38.87	.20	SLST	0	10YR 7/1	.286	8.94	21.73		12.79	7.5
23	38.87-39.42	.55	SLST	0	5Y 6/1	.526*	16.44	8.78	7.66		7.0
24	39.42-39.58	.16	COAL	0	5Y 4/1	1.38*	43.12	16.37	26.76		5.1
25	39.58-39.88	.30	SLST	0	5Y 6/1	.334	10.44	28.28		17.84	8.0
26	39.88-40.16	.28	SLST	4	5Y 8/2	.219	6.84	593.95		587.11	8.3
27	40.16-41.16	1.00	SLST	2	5Y 6/1	.825	25.78	53.31		27.53	8.1
28	41.16-41.36	.20	SLST	0	5Y 6/1	1.70*	53.12	27.42	25.70		7.5
29	41.36-41.56	.20	SLST	0	10YR 5/1	5.53*	172.81	28.43	144.38		5.3
-	41.56-42.17	.61	COAL								
30	42.17-42.37	.20	SS/SLST	0	10YR 6/1	.630*	19.69	10.26	9.43		6.0
31	42.37-43.00	.63	SS/SLST	2	2.5Y 8/0	.189	5.91	71.75		65.84	8.4
32	43.00-46.00	3.00	SS/SLST	3	2.5Y 8/0	.393	12.28	143.36		137.45	8.9
33	46.00-47.00	1.00	SS/SLST	2	5Y 7/1	.916	28.62	49.80		21.18	8.1
34	47.00-47.47	.47	SS/SLST	4	5Y 7/1	.712	22.25	282.38		260.13	8.4
35	47.47-47.67	.20	SS/SLST	2	2.5Y 8/0	.938	29.31	57.02		27.71	7.6
-	47.67-48.30	.63	COAL								

*Pyritic Sulfur

MAIN OFFICE — POST OFFICE BOX 650 • BRIDGEPORT, WEST VIRGINIA 26330 • (304) 623-6549

CHARLESTON BRANCH — POST OFFICE DRAWER F • MARMET, WEST VIRGINIA 25315 • (304) 949-5199

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 411

Date: OCTOBER 30, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (METERS)	Strata Thick. (Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
36	48.30-48.50	.20	SLST	2	5Y 6/1	1.29	40.31	60.46		20.15	7.7
37	48.50-49.00	.50	SS	2	5Y 6/1	1.29	40.31	60.90		20.59	7.6
38	49.00-49.25	.25	SS	3	5Y 7/1	.484	15.12	208.95		193.83	8.6
39	49.25-49.44	.19	SS	2	5Y 6/1	.571	17.84	47.15		29.13	8.0
-	49.44-49.87	.43	COAL-CL ST								
40	49.87-49.97	.10	SLST	0	10YR 7/1	.748	23.38	25.85		2.47	8.2
41	49.97-50.30	.33	SLST	0	5Y 7/1	.690*	21.56	13.67	7.89		7.7
42	50.30-51.00	.70	SLST	0	10YR 6/1	.536	16.75	25.34		8.59	8.6
43	51.00-51.26	.26	SLST	0	10YR 5/1	2.60*	81.25	26.32	54.93		5.2
44	51.26-51.46	.20	SLST	0	5Y 3/1	10.7*	334.38	25.46	308.92		4.4
-	51.46-54.22	2.76	COAL-SLST								
45	54.22-54.42	.22	SLST	0	10YR 5/1	.836*	26.12	25.30	.82		6.1
46	54.42-55.34	.92	SLST	0	10YR 5/1	.302	9.44	12.96		3.52	7.1
-	55.34-55.52	.18	COAL								
47	55.52-55.75	.23	SLST	2	10YR 5/1	.227	7.09	59.28		52.19	8.0
48	55.75-56.50	.75	SLST	0	5Y 7/1	.443	13.84	22.68		8.84	8.3
-	56.50-56.90	.40	COAL								
49	56.90-57.50	.60	SLST	2	10YR 5/1	.169	5.28	63.84		58.56	8.5
50	57.50-57.70	.20	SLST	0	10YR 5/1	1.36*	42.50	17.90	24.60		8.1
-	57.70-58.10	.40	COAL								

*Pyritic Sulfur

MAIN OFFICE — POST OFFICE BOX 650 • BRIDGEPORT, WEST VIRGINIA 26330 • (304) 623-6549

CHARLESTON BRANCH — POST OFFICE DRAWER F • MARMET, WEST VIRGINIA 25315 • (304) 949-5199

SULFUR FRACTIONATIONS

CROWS NEST RESOURCES, LIMITED
TELKWA PROJECT, CORE 411
NOVEMBER 2, 1984

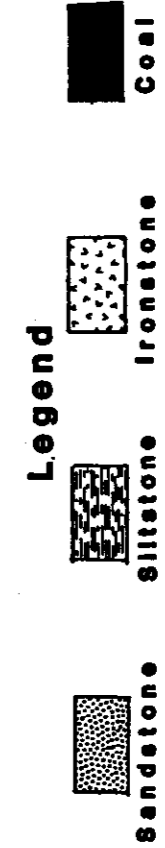
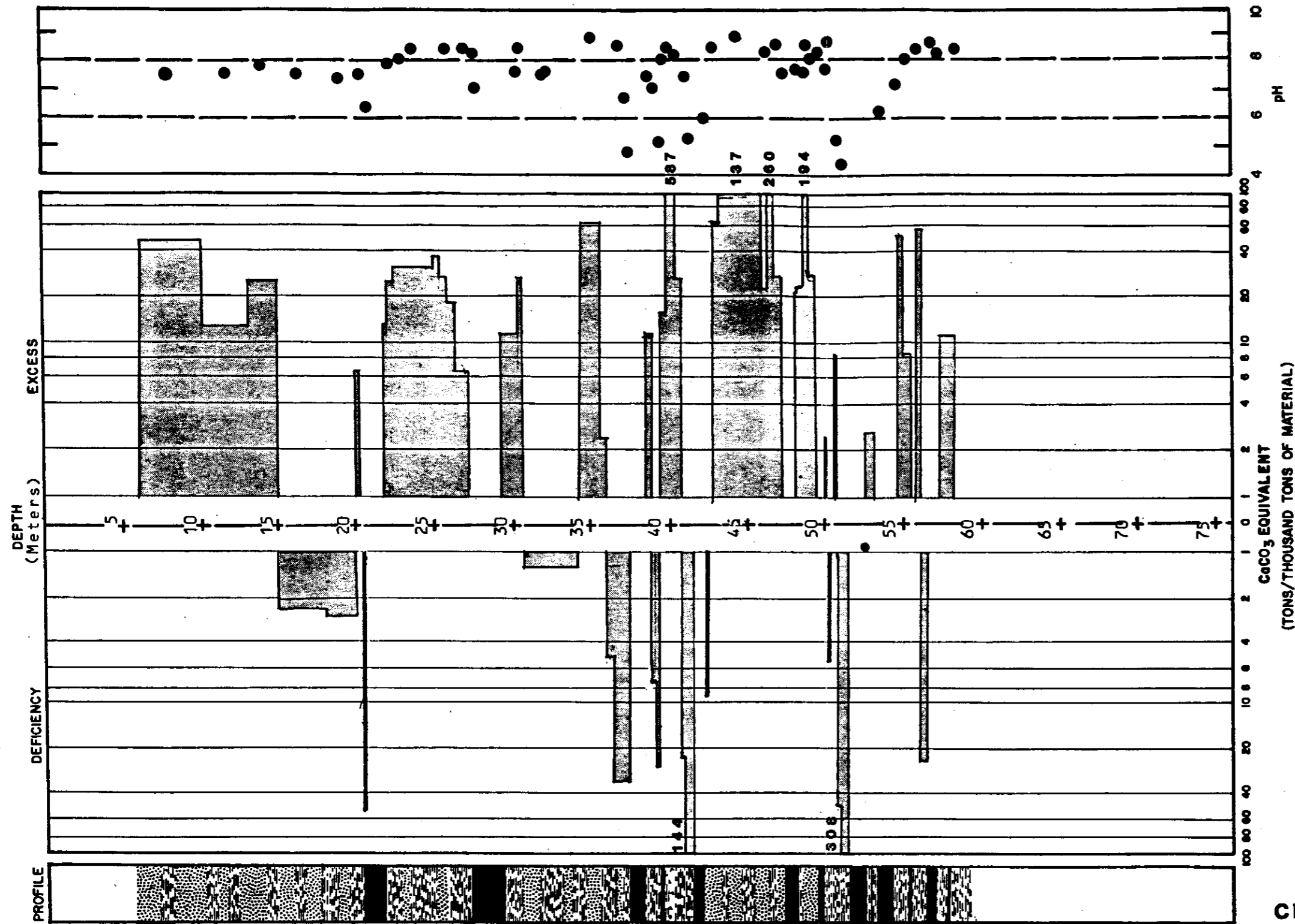
<u>SAMPLE NUMBER</u>	<u>TOTAL SULFUR (%)</u>	<u>PYRITIC SULFUR (%)</u>	<u>SULFATE SULFUR (%)</u>	<u>ORGANIC SULFUR (%)</u>
4	1.08	.838	.135	.107
5	1.09	.886	.118	.086
7	2.81	2.49	.073	.249
17	.894	.603	.151	.140
20	1.18	.967	.083	.130
21	1.55	1.27	.121	.158
23	.700	.526	.088	.086
24	1.61	1.38	.006	.228
28	1.93	1.70	.113	.116
29	6.00	5.53	.059	.415
30	.845	.630	.109	.106
41	.865	.690	.091	.084
43	2.77	2.60	.069	.102
44	11.0	10.7	.100	.181
45	1.20	.836	.264	.100
50	1.44	1.36	.001	.075

DRAWING NUMBER

CHECKED BY
APPROVED BY

DRAWN BY

CORE: 411



**TELKWA PROJECT
CORE 411**

**CROWS NEST RESOURCES, LTD
ACID-BASE CHARACTERISTICS**

Plurm Environmental Services

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 412

Date: OCTOBER 29, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (METERS)	Strata Thick. (Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
A	0-2.00	2.00		0	10YR 6/3	.030	.94	11.87		10.93	6.9
B	2.00-3.50	1.50		1	10YR 8/2	.021	.66	24.34		23.68	7.8
C	3.50-5.00	1.50		0	10YR 7/1	.203	6.34	26.32		19.98	7.7
D	5.00-6.00	1.00		2	10YR 6/2	.175	5.47	43.81		38.34	7.8
E	6.00-6.10+	.10+		1	10YR 7/2	.101	3.16	23.91		20.75	7.8

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 412

Date: OCTOBER 28, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (METERS)	Strata Thick. (Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
-	7.54-9.13	1.59	COAL								
1	9.13-9.33	.20	SLST	0	5Y 4/1	.266	8.31	7.50	.81		8.3
2	9.33-10.00	.67	SLST	0	2.5Y 8/0	.082	2.56	22.60		20.04	8.5
3	10.00-10.70	.70	SLST	5	10YR 7/1	.088	2.75	525.17		521.42	8.3
4	10.70-10.92	.22	SLST	0	10YR 7/1	.060	1.88	27.14		25.26	8.5
-	10.92-11.00	.08	COAL								
5	11.00-11.12	.12	MDST	0	10YR 5/1	.393	12.00	13.93		1.93	7.3
-	11.12-12.10	.98	COAL								
6	12.10-12.30	.20	MDST	0	10YR 7/1	.120	3.75	10.77		7.02	8.9
7	12.30-13.00	.70	MDST	0	10YR 7/1	.401	12.53	11.40	1.13		8.6
8	13.00-14.00	1.00	MDST	2	10YR 7/1	.045	1.41	63.55		62.14	9.3
9	14.00-18.00	4.00	SLST	0	2.5Y 8/0	.038	1.19	15.63		14.44	9.5
10	18.00-21.00	3.00	SLST	0	2.5Y 8/0	.045	1.41	25.16		23.75	9.1
11	21.00-21.40	.40	SLST	0	2.5Y 8/0	.047	1.47	24.30		22.83	9.2
12	21.40-21.91	.51	SLST	0	10YR 5/1	.068	2.12	18.79		16.67	9.3
-	21.91-22.88	.97	COAL								
13	22.88-23.10	.22	MDST	0	10YR 5/1	.817*	25.53	7.17	18.36		7.7
14	23.10-24.10	1.00	MDST	0	10YR 5/1	.607*	18.97	9.36	9.61		8.8
15	24.10-26.90	2.80	SS	4	2.5Y 8/0	.442	13.21	160.87		147.66	9.2

MAIN OFFICE — POST OFFICE BOX 650 • BRIDGEPORT, WEST VIRGINIA 26330 • (304) 623-6549

CHARLESTON BRANCH — POST OFFICE DRAWER F • MARMET, WEST VIRGINIA 25315 • (304) 949-5199

SULFUR FRACTIONATIONS

CROWS NEST RESOURCES, LIMITED
TELKWA PROJECT, CORE 412
OCTOBER 26, 1984

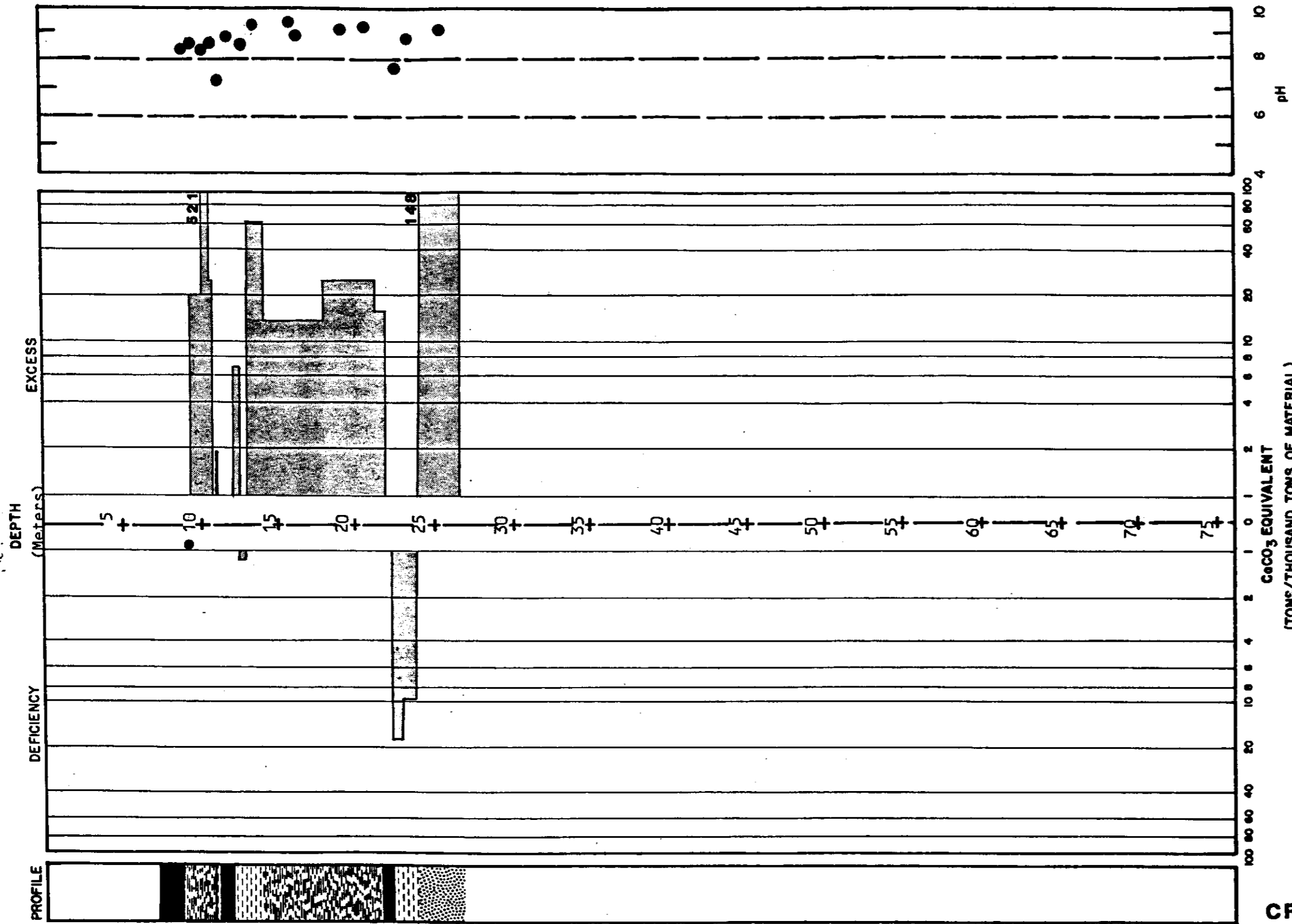
<u>SAMPLE NUMBER</u>	<u>TOTAL SULFUR (%)</u>	<u>PYRITIC SULFUR (%)</u>	<u>SULFATE SULFUR (%)</u>	<u>ORGANIC SULFUR (%)</u>
13	1.28	.817	.157	.306
14	.700	.607	.077	.016

DRAWING NUMBER

CHECKED BY
APPROVED BY

DRAWN BY

CORE: 412



pH

CaCO_3 EQUIVALENT
(TONS/THOUSAND TONS OF MATERIAL)



TELKWA PROJECT

CORE 412

CROWS NEST RESOURCES, LTD

ACID-BASE CHARACTERISTICS

Sturm Environmental Services

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 418

Date: OCTOBER 22, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (Meters)	Strata Thick(Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
1	7.19-7.50	.40	SLST/SS	3	10YR 5/1	.782	24.44	90.23		65.79	7.8
2	7.50-8.25	.75	SLST/SS	1	10YR 6/1	.563	17.59	15.60	1.99		7.8
3	8.25-8.75	.50	SLST/SS	1	10YR 6/1	.365	11.41	32.03		20.62	8.1
4	8.75-8.96	.21	SLST/SS	0	10YR 4/1	3.81*	119.06	18.77	100.29		5.0
-	8.96-9.78	.82	COAL								
5	9.78-10.00	.22	SLST	0	10YR 5/1	.599*	18.72	19.16		.44	7.7
6	10.00-10.30	.30	SLST	0	10YR 6/1	.572	17.88	25.24		7.36	8.3
7	10.30-11.00	.70	SLST	0	10YR 6/1	.473	14.78	30.82		16.04	8.0
8	11.00-11.30	.30	SLST	0	10YR 6/1	.604	18.88	24.07		5.19	6.9
9	11.30-11.50	.20	SLST	0	10YR 4/1	5.75*	179.68	19.23	160.45		3.8
-	11.50-13.40	1.90	COAL								
10	13.40-13.60	.20	SLST/SS	0	10YR 7/1	.095	2.97	21.62		18.65	7.9
11	13.60-15.00	1.40	SLST/SS	0	10YR 7/1	.081	2.53	18.57		16.04	8.4
12	15.00-19.00	4.00	SLST/SS	3	10YR 5/1	.201	6.28	77.50		71.22	8.6
13	19.00-20.87	1.87	SS	3	2.5Y 8/0	.211	6.59	64.30		57.71	8.1
14	20.87-24.38	3.51	SS	3	10YR 6/1	.216	6.75	136.70		129.95	9.0
15	24.38-24.58	.20	SLST/SS	3	10YR 6/1	.234	7.31	122.77		115.46	9.0
16	24.58-24.78	.20	SLST/SS	3	10YR 7/1	.184	5.75	320.01		314.26	9.1
-	24.78-24.96	.18	COAL								
17	24.96-25.10	.14	SLST	2	10YR 5/1	.948	29.61	36.54		6.92	8.2

*Pyritic Sulfur

MAIN OFFICE — POST OFFICE BOX 650 • BRIDGEPORT, WEST VIRGINIA 26330 • (304) 623-6549

CHARLESTON BRANCH — POST OFFICE DRAWER F • MARMET, WEST VIRGINIA 25315 • (304) 949-5199

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 418

Date: OCTOBER 22, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (Meters)	Strata Thick. (Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
18	25.10-25.50	.40	SLST	2	10YR 7/1	.924	28.88	45.24		16.36	8.6
19	25.50-25.80	.30	SLST	0	10YR 4/1	3.23*	100.94	58.27	42.67		5.1
20	25.80-26.04	.24	SLST	2	10YR 5/1	1.61*	50.31	29.61	20.70		5.4
-	26.04-27.04	1.00	COAL								
21	27.04-27.24	.20	SLST	1	10YR 7/1	.082	2.56	28.85		26.29	8.2
22	27.24-27.50	.26	SLST	2	10YR 7/1	.070	2.19	65.19		63.00	8.6
23	27.50-28.50	1.00	SLST	2	10YR 5/1	1.22	38.12	53.40		15.28	7.2
24	28.50-29.50	1.00	SLST	2	10YR 6/1	.594	18.56	73.23		54.67	7.8
25	29.50-29.66	.16	SLST	2	10YR 6/1	1.43	44.69	50.54		5.85	7.2
-	29.66-30.20	.54	COAL								
26	30.20-30.40	.20	SLST	0	10YR 5/1	3.60*	112.50	12.28	100.22		4.0
27	30.40-30.60	.20	SLST	0	10YR 6/1	.589	18.41	20.32		1.91	7.3
28	30.60-30.86	.26	SLST	0	10YR 6/1	.752*	23.50	15.80	7.70		6.6
-	30.86-31.34	.48	COAL/SLST								
29	31.34-31.54	.20	SLST	0	10YR 5/1	1.38*	43.13	15.43	27.70		4.3
30	31.54-31.62	.08	SLST	0	10YR 4/1	4.96*	155.00	24.48	130.52		4.6
31	31.62-31.70	.08	SLST	0	10YR 5/1	.774*	24.19	18.79	5.40		5.2
32	31.70-32.00	.30	SLST	0	10YR 5/1	.947*	29.59	18.81	10.78		5.9
33	32.00-32.10	.10	SLST	0	10YR 5/1	.347*	10.84	13.21		2.37	6.3
	32.10-33.26	1.16	COAL								

*Pyritic Sulfur

MAIN OFFICE — POST OFFICE BOX 650 • BRIDGEPORT, WEST VIRGINIA 26330 • (304) 623-6549

CHARLESTON BRANCH — POST OFFICE DRAWER F • MARMET, WEST VIRGINIA 25315 • (304) 949-5199

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 418

Date: OCTOBER 22, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (Meters)	Strata Thick. (Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
18	25.10-25.50	.40	SLST	2	10YR 7/1	.924	28.88	45.24		16.36	8.6
19	25.50-25.80	.30	SLST	0	10YR 4/1	3.23*	100.94	58.27	42.67		5.1
20	25.80-26.04	.24	SLST	2	10YR 5/1	1.61*	50.31	29.61	20.70		5.4
-	26.04-27.04	1.00	COAL								
21	27.04-27.24	.20	SLST	1	10YR 7/1	.082	2.56	28.85		26.29	8.2
22	27.24-27.50	.26	SLST	2	10YR 7/1	.070	2.19	65.19		63.00	8.6
23	27.50-28.50	1.00	SLST	2	10YR 5/1	1.22	38.12	53.40		15.28	7.2
24	28.50-29.50	1.00	SLST	2	10YR 6/1	.594	18.56	73.23		54.67	7.8
25	29.50-29.66	.16	SLST	2	10YR 6/1	1.43	44.69	50.54		5.85	7.2
-	29.66-30.20	.54	COAL								
26	30.20-30.40	.20	SLST	0	10YR 5/1	3.60*	112.50	12.28	100.22		4.0
27	30.40-30.60	.20	SLST	0	10YR 6/1	.589	18.41	20.32		1.91	7.3
28	30.60-30.86	.26	SLST	0	10YR 6/1	.752*	23.50	15.80	7.70		6.6
-	30.86-31.34	.48	COAL/SLST								
29	31.34-31.54	.20	SLST	0	10YR 5/1	1.38*	43.13	15.43	27.70		4.3
30	31.54-31.62	.08	SLST	0	10YR 4/1	4.96*	155.00	24.48	130.52		4.6
31	31.62-31.70	.08	SLST	0	10YR 5/1	.774*	24.19	18.79	5.40		5.2
32	31.70-32.00	.30	SLST	0	10YR 5/1	.947*	29.59	18.81	10.78		5.9
33	32.00-32.10	.10	SLST	0	10YR 5/1	.347*	10.84	13.21		2.37	6.3
	32.10-33.26	1.16	COAL								

*Pyritic Sulfur

MAIN OFFICE — POST OFFICE BOX 650 • BRIDGEPORT, WEST VIRGINIA 26330 • (304) 623-6549
 CHARLESTON BRANCH — POST OFFICE DRAWER F • MARMET, WEST VIRGINIA 25315 • (304) 949-5199

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 418

Date: OCTOBER 22, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (Meters)	Strata Thick(Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
34	33.26-33.52	.26	SLST	0	10YR 4/1	2.89*	90.31	.57	89.74		3.3
-	33.52-34.72	1.20	COAL								
35	34.72-34.92	.20	SLST	0	10YR 5/1	.318	9.94	11.88		1.94	7.0
36	34.92-37.00	2.08	SLST	0	10YR 4/1	.888*	27.75	24.68	3.07		7.7
37	37.00-40.00	3.00	SLST	4	10YR 5/1	.145	4.53	132.62		128.09	8.7
38	40.00-42.00	2.00	SLST	3	10YR 4/1	.175	5.47	139.10		133.63	8.6
39	42.00-42.60	.60	SLST	3	10YR 4/1	.137	4.28	231.23		226.95	8.5
40	42.60-42.84	.24	SLST	3	10YR 4/1	.191	5.97	78.95		72.98	8.5
-	42.84-44.36	2.68	COAL								
41	44.36-44.50	.14	SLST	0	10YR 5/1	.862	26.94	31.36		4.42	7.3
42	44.50-44.90	.40	SLST	0	10YR 5/1	.775*	24.22	19.80	4.42		7.7
43	44.90-45.12	.22	SLST	0	10YR 6/1	1.59*	49.69	18.46	31.23		6.7
-	45.12-45.96	.84	COAL								
44	45.96-46.16	.20	SS	3	10YR 7/1	.100	3.12	61.66		58.54	8.7
45	46.16-48.00	1.84	SS	3	2.5Y 8/0	.111	3.47	35.96		32.49	8.7
46	48.00-50.00	2.00	SS	3	10YR 7/1	.708	22.12	238.61		216.49	8.5
47	50.00-54.00	4.00	SS	2	10YR 7/1	.515*	16.09	11.71	4.38		9.2
48	54.00-58.00	4.00	SS	3	10YR 7/1	.307	9.59	248.91		239.32	9.2
49	58.00-60.00	2.00	SS	3	10YR 6/1	.420	13.12	76.54		63.42	9.0
50	60.00-60.45	.45	SS	0	10YR 7/1	.636	19.88	80.10		60.22	8.1

*Pyritic Sulfur

MAIN OFFICE — POST OFFICE BOX 650 • BRIDGEPORT, WEST VIRGINIA 26330 • (304) 623-6549

CHARLESTON BRANCH — POST OFFICE DRAWER F • MARMET, WEST VIRGINIA 25315 • (304) 949-5199

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 418

Date: OCTOBER 22, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (Meters)	Strata Thick.(Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Poste pH
51	60.45-60.65	.20	SS	0	10YR 6/1	.262*	26.94	19.00	7.94		8.3
-	60.65-60.95	.30	COAL								
52	60.95-61.10	.15	SLST	0	10YR 7/1	.149	4.66	13.07		8.41	9.4
53	61.10-61.50	.40	SLST	0	10YR 7/1	.161	5.03	27.09		22.06	9.3
54	61.50-63.50	2.00	SLST	0	10YR 5/1	.355	11.07	12.49		1.38	8.7
55	63.50-65.50	2.00	SLST	0	10YR 5/1	2.15*	67.19	25.53	41.66		6.8
56	65.50-67.40	1.90	SLST	0	10YR 6/1	2.56*	80.00	12.45	67.55		7.1
57	67.40-67.80	.40	SLST	0	10YR 6/1	4.07*	121.19	11.21	115.98		6.8
-	67.80-69.96	2.16	COAL								
58	69.96-70.10	.14	SLST	0	10YR 6/1	1.17*	36.56	9.20	27.36		7.4
59	70.10-71.50	1.40	SLST	0	10YR 7/1	1.40*	43.75	18.70	25.05		6.4
60	71.50-72.50	1.00	SLST	0	10YR 6/1	3.27*	102.19	16.74	85.45		7.5
61	72.50-72.90	.40	SLST	0	10YR 6/1	.172	5.38	15.48		10.10	8.7
62	72.90-73.08	.18	SLST	0	10YR 6/1	.207	6.47	17.79		11.32	8.7
-	73.08-76.84	3.76	COAL								
63	76.84-77.10	.26	SLST	0	10YR 7/1	.075	2.34	10.22		7.88	9.2
64	77.10-78.00	.90	SLST	1	10YR 7/1	.114	3.56	26.64		23.08	9.2
65	78.00-80.14	2.14	SLST	3	10YR 7/1	.204	6.38	349.08		342.70	9.1

*Pyritic Sulfur

MAIN OFFICE — POST OFFICE BOX 650 • BRIDGEPORT, WEST VIRGINIA 26330 • (304) 623-6549
CHARLESTON BRANCH — POST OFFICE DRAWER F • MARMET, WEST VIRGINIA 25315 • (304) 949-5199

SULFUR FRACTIONATIONS

CROWS NEST RESOURCES
TELKWA PROJECT, CORE 418
OCTOBER 27, 1984

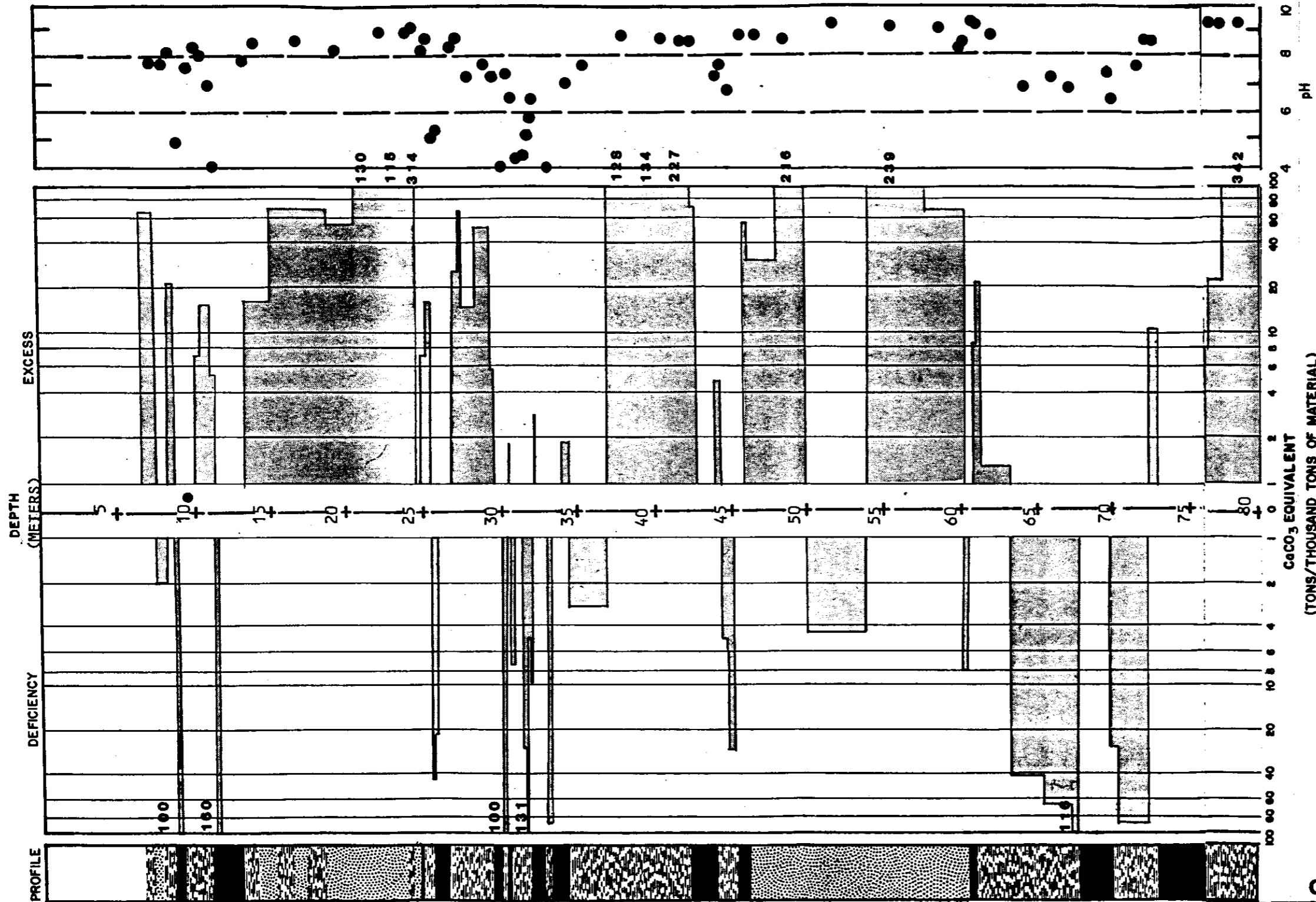
<u>SAMPLE NUMBER</u>	<u>TOTAL SULFUR (%)</u>	<u>PYRITIC SULFUR (%)</u>	<u>SULFATE SULFUR (%)</u>	<u>ORGANIC SULFUR (%)</u>
4	6.39	3.81	1.51	1.07
5	1.02	.599	.225	.196
9	8.35	5.75	1.93	.674
19	4.24	3.23	.554	.455
20	2.18	1.61	.394	.174
26	4.27	3.60	.494	.176
28	1.04	.752	.164	.125
29	1.74	1.38	.192	.167
30	6.66	4.96	1.50	.197
31	1.23	.774	.361	.094
32	1.25	.947	.173	.130
33	.666	.347	.235	.084
34	3.91	2.89	.771	.253
36	1.18	.888	.186	.105
42	.971	.775	.113	.083
43	2.45	1.59	.016	.843
47	.722	.515	.083	.124
51	1.03	.862	.080	.088
55	2.57	2.15	.194	.221
56	2.80	2.56	.151	.089
57	4.65	4.07	.360	.216
58	1.36	1.17	.086	.104
59	1.50	1.40	.007	.097
60	3.59	3.27	.148	.170

DRAWING NUMBER

CHECKED BY
APPROVED BY

DRAWN BY

CORE: 418



Legend

-  Sandstone
-  Siltstone
-  Coal

TELKWA PROJECT
CORE 418
 CROWS NEST RESOURCES, LTD

ACID-BASE CHARACTERISTICS

Sturm Environmental Services

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 438

Date: OCTOBER 19, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (Meters)	Strata Thick. (Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
1	7.00-9.86	2.86	SS/SLST	2	5Y 6/1	.090	2.81	73.78		70.97	8.9
2	9.86-13.26	3.58	SS/SLST	2	5Y 6/1	.157	4.91	55.64		50.73	9.2
3	13.26-16.84	3.58	SS/SLST	1	7.5YR 5/0	.196	6.12	33.12		27.00	9.1
4	16.84-20.42	3.58	SS/SLST	4	2.5Y 5/0	.165	5.16	147.72		142.56	9.3
5	20.42-24.01	3.59	MDST/SLST	1	7.5YR 5/0	.283	8.84	36.78		27.94	9.3
6	24.01-27.61	3.60	SLST	4	7.5YR 5/0	.549	17.16	79.75		62.59	9.0
7	27.61-31.21	3.60	SLST	3	7.5YR 5/0	.436	13.62	99.32		85.70	9.3
8	31.21-34.81	3.60	SLST	3	7.5YR 5/0	.561	17.53	70.14		52.61	9.2
9	34.81-38.40	3.59	SLST	5	10YR 6/1	.247	7.72	102.44		94.72	9.1
10	38.40-42.00	3.60	SLST	5	10YR 6/1	.391	12.22	93.08		80.86	9.4
11	42.00-44.12	2.12	SS	2	10YR 6/1	.497	15.53	63.67		48.14	8.6
12	44.12-46.24	2.12	SS	0	2.5Y 5/2	.567	17.72	37.87		20.15	9.3
13	46.24-46.44	.40	SLST	3	5Y 5/1	1.71	53.44	96.08		42.64	8.3
14	46.44-47.24	.80	SLST	0	5Y 5/1	2.73*	85.31	7.99	77.32		5.5
15	47.24-47.44	.20	SLST	0	5Y 5/1	5.05*	157.81	11.50	146.31		5.0
COAL	47.44-48.37	.93	COAL								
16	48.37-48.57	.20	SLST	0	10YR 6/1	.719*	22.47	8.73	13.74		5.4
17	48.57-49.28	.71	SLST	0	2.5Y 6/0	.642*	20.06	11.70	8.36		7.5
18	49.28-51.60	2.32	SS	5	5Y 5/2	1.32	41.25	61.49		20.24	9.0
19	51.60-53.92	2.32	SS	0	5Y 5/2	.561	17.53	31.79		14.26	9.4

*Pyritic Sulfur

MAIN OFFICE — POST OFFICE BOX 650 • BRIDGEPORT, WEST VIRGINIA 26330 • (304) 623-6549

CHARLESTON BRANCH — POST OFFICE DRAWER F • MARMET, WEST VIRGINIA 25315 • (304) 949-5199

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 438

Date: OCTOBER 19, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (Meters)	Strato Thick.(Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CoCO ₃ Equiv.	Max. Needed (pH-7)	Excess CoCO ₃	Paste pH
20	53.92-56.23	2.31	SS	0	5Y 5/2	.946*	29.56	34.11		4.55	9.5
21	56.23-58.55	2.32	SS	0	5Y 5/1	1.04*	32.50	31.61	.89		9.0
22	58.55-59.22	.67	SS	0	10YR 5/1	1.57*	49.06	13.43	35.63		8.8
23	59.22-60.22	1.00	SS	1	10YR 5/1	4.24*	132.50	15.83	116.67		6.0
24	60.22-60.56	.34	SS	0	10YR 5/1	5.89*	184.06	3.84	180.22		4.0
COAL	60.56-61.52	.96	COAL								
25	61.52-61.70	.18	SS	0	2.5Y 6/0	.871*	27.22	8.98	18.24		8.4
26	61.70-63.98	2.28	SS/SLST	0	2.5Y 6/0	.630*	19.69	10.83	8.86		8.9
27	63.98-66.25	2.27	SS	2	2.5Y 6/0	.217	6.78	18.19		11.41	9.2
28	66.25-70.15	3.90	SLST	2	10YR 5/0	.131	4.09	54.53		50.44	9.1
29	70.15-74.12	3.97	SS	2	10YR 7/1	.206	6.44	51.20		44.76	9.3
30	74.12-78.13	4.01	SS	2	7.5Y 6/0	2.00	62.50	69.83		7.33	9.1
31	78.13-79.49	1.36	SS	2	2.5Y 6/0	.195	6.09	42.89		36.80	9.0
COAL	79.49-79.56	.07	COAL								
32	79.56-80.98	1.42	SLST/SS	0	5Y 6/1	.645	20.16	20.54		.38	8.6
33	80.98-82.78	1.80	SLST	2	5Y 5/1	.335	10.47	65.40		54.93	8.3
34	82.78-83.45	.67	SLST	2	5Y 6/1	.921	28.78	36.10		7.32	8.5
35	83.45-83.58	.13	SLST	2	5Y 5/1	1.99*	62.19	24.36	37.83		7.4
COAL	83.58-83.71	.13	COAL								
36	83.71-84.95	1.24	SLST	0	5Y 4/1	2.39*	74.69	12.37	62.32		4.6

*Pyritic Sulfur

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CHARLESTON BRANCH — POST OFFICE DRAWER F • MARMET, WEST VIRGINIA 25315 • (304) 949-5199

Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 438

Date: OCTOBER 19, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (Meters)	Strata Thick. (Mtrs.)	Rack Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
37	84.95-85.40	.45	SS	0	2.5Y 6/1	1.45*	45.31	14.49	30.82		6.8
COAL	85.40-87.13	1.73	COAL-SH								
38	87.13-87.43	.30	SLST	2	2.5Y 5/1	1.23*	38.44	17.62	20.82		6.7
39	87.43-87.73	.30	SLST	0	2.5Y 5/1	.963*	30.09	15.39	14.70		6.5
40	87.73-88.20	.47	SLST	0	2.5Y 5/1	.723*	22.59	25.19		2.60	8.0
41	88.20-88.60	.40	SLST	0	10YR 4/1	.836*	26.12	23.01	3.11		7.1
42	88.60-88.88	.28	SLST	0	10YR 4/1	.662*	20.69	10.54	10.15		6.8
COAL	88.88-89.80	.92	COAL								
43	89.80-90.10	.30	SLST	0	2.5Y 2/0	2.17*	67.81	6.77	61.04		3.9
44	90.10-90.70	.60	SLST	0	5Y 4/1	1.31*	40.94	11.32	29.62		5.4
45	90.70-90.90	.20	SLST	0	10YR 5/1	1.74*	54.38	33.26	21.12		4.8
46	90.90-91.06	.16	SLST	0	10YR 5/1	1.57*	49.06	7.20	41.86		4.4
COAL	91.06-91.57	.51	COAL								
47	91.57-91.70	.13	SLST	0	10YR 5/1	.189	5.91	8.77		2.86	7.1
48	91.70-93.00	1.30	SLST	0	10YR 5/1	.235	7.34	31.83		24.49	8.1
49	93.00-94.00	1.00	SLST	0	10YR 5/1	.117	3.66	30.73		27.07	8.4
50	94.00-95.60	1.60	SLST	0	10YR 4/1	1.47*	45.94	12.32	33.62		6.8
51	95.60-96.20	.60	SLST	0	10YR 4/1	.316	9.88	22.79		12.91	8.2
52	96.20-96.38	.18	SLST	0	10YR 4/1	.389	12.16	10.99	1.17		7.8
COAL	96.38-98.39	2.01	COAL								

*Pyritic Sulfur

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Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 438

Date: OCTOBER 19, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (METERS)	Strata Thick. (MTRS.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
53	98.39-98.60	.21	MDST/SS	0	10YR 6/1	.101	3.16	7.35		4.19	7.8
54	98.60-100.00	1.40	MDST/SS	0	10YR 6/1	.616*	19.25	6.35	12.90		7.0
55	100.00-104.00	4.00	SS	0	10YR 5/1	1.87*	58.44	22.71	35.73		7.6
56	104.00-106.00	2.00	SS	2	10YR 7/1	.400	12.50	38.60		26.10	9.0
57	106.00-108.00	2.00	SS	2	10YR 7/1	1.90*	59.38	30.41	28.97		9.1
58	108.00-111.00	3.00	SS	0	10YR 7/1	.166	5.19	17.47		12.28	9.3
59	111.00-112.50	1.50	SS	0	10YR 7/1	.678*	21.19	12.59	8.60		8.9
60	112.50-113.80	1.30	SS	2	10YR 7/1	.779	24.34	55.15		30.81	9.0
61	113.80-114.10	.30	SS	2	5Y 6/1	1.29	40.31	41.26		.95	7.8
62	114.10-114.25	.15	SS	2	5Y 6/1	7.66*	239.38	19.17	220.21		5.0
COAL	114.25-114.80	.65	COAL								
63	114.80-115.10	.30	MDST	0	7.5YR 6/1	1.28*	40.00	9.24	30.76		6.8
64	115.10-115.40	.30	MDST	0	7.5YR 6/1	.750	23.44	21.22	2.22		8.1
65	115.40-115.68	.28	MDST	0	10YR 4/1	.879*	27.47	9.68	17.79		7.6
COAL	115.68-116.86	1.18	COAL								
66	116.86-117.62	.76	MDST	0	10YR 5/1	.684*	21.38	11.07	10.31		7.4
COAL	117.62-117.92	.30	COAL								
67	117.92-118.57	.65	MDST	0	10YR 5/1	.835*	26.09	11.29	14.80		7.9
COAL	118.57-118.92	.35	COAL								
68	118.92-119.20	.28	MDST	0	10YR 5/1	.585*	18.28	11.69	6.59		8.6

*Pyritic Sulfur

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Sturm Environmental Services

Company: CROWS NEST RESOURCES, LIMITED

Site: TELKWA PROJECT, CORE 438

Date: OCTOBER 19, 1984

ACID-BASE ACCOUNT

Calcium Carbonate Equivalent
Tons/1000 Tons of Material

Sample Number	Depth (Meters)	Strata Thick.(Mtrs.)	Rock Type	Fiz	Color	% S	Max. From % S	N.P. CaCO ₃ Equiv.	Max. Needed (pH-7)	Excess CaCO ₃	Paste pH
69	119.20-120.20	1.00	MDST	0	7.5YR 6/1	.166	5.19	13.89		8.7	9.0
70	120.20-121.20	1.00	MDST	0	5Y 6/1	1.72*	53.75	16.49	37.26		8.3
71	121.20-122.20	1.00	MDST	0	7.5YR 6/1	.319	9.97	14.02		4.05	8.0
72	122.20-123.30	1.10	MDST	0	7.5YR 6/1	.794*	24.81	11.02	13.79		8.4
73	123.30-123.44	.14	MDST	0	10YR 5/1	2.55*	79.69	7.36	72.33		6.5
COAL	123.44-124.01	.57	COAL								
74	124.01-124.94	.93	MDST	0	7.5YR 6/1	1.52*	47.50	8.12	39.38		7.8
COAL	124.94-125.27	.28	COAL								
	125.27-125.44	.22	MDST								
COAL	125.44-125.96	.52	COAL								
75	125.96-126.20	.24	SS	0	7.5YR 6/1	.193	6.03	17.63		11.60	8.6
76	126.20-128.50	2.30	SS	0	5Y 6/1	.873*	27.28	23.48	3.80		8.3
77	128.50-130.80	2.30	SS	2	5Y 6/1	.192	6.00	35.12		29.12	8.6

*Pyritic Sulfur

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SULFUR FRACTIONATIONS

CROWS NEST RESOURCES, LIMITED
TELKWA PROJECT, CORE 438
OCTOBER 26, 1984

<u>SAMPLE NUMBER</u>	<u>TOTAL SULFUR (%)</u>	<u>PYRITIC SULFUR (%)</u>	<u>SULFATE SULFUR (%)</u>	<u>ORGANIC SULFUR (%)</u>
14	3.59	2.73	.676	.187
15	6.46	5.05	1.13	.282
16	1.19	.719	.415	.056
17	.998	.642	.313	.043
20	1.10	.946	.056	.098
21	1.29	1.04	.174	.074
22	2.38	1.57	.686	.127
23	5.74	4.24	1.16	.338
24	7.01	5.89	.811	.311
25	1.09	.871	.077	.142
26	.649	.630	.019	<.005
35	2.49	1.99	.497	<.005
36	3.35	2.39	.755	.203
37	1.62	1.45	.017	.156
38	1.54	1.23	.171	.137
39	1.28	.963	.202	.115
40	.969	.723	.133	.113
41	1.21	.836	.254	.120
42	.852	.662	.092	.098
43	2.98	2.17	.246	.562
44	1.65	1.31	.180	.162
45	2.60	1.74	.764	.098
46	2.29	1.57	.694	.040
50	1.63	1.47	.021	.141
54	.755	.616	.139	<.005
55	2.22	1.87	.259	.087
57	2.26	1.90	.356	<.005
59	.723	.678	.045	<.005

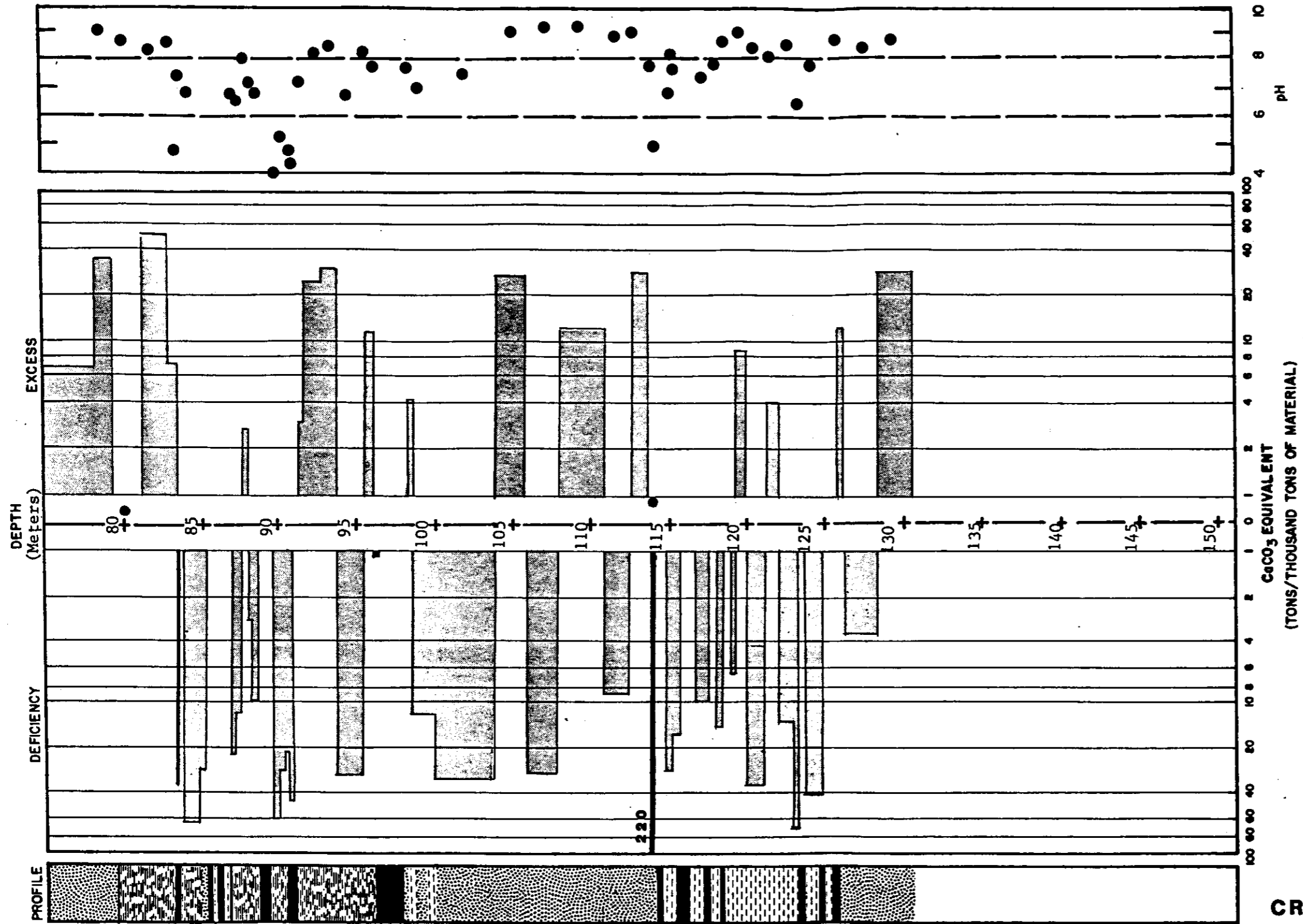
CROWS NEST RESOURCES, LIMITED
TELKWA PROJECT, CORE 438
OCTOBER 26, 1984





SULFUR FRACTIONATIONS
(Continued)

<u>SAMPLE NUMBER</u>	<u>TOTAL SULFUR (%)</u>	<u>PYRITIC SULFUR (%)</u>	<u>SULFATE SULFUR (%)</u>	<u>ORGANIC SULFUR (%)</u>
62	9.12	7.66	1.16	.298
63	2.77	1.28	1.49	<.005
65	1.16	.879	.271	.010
66	.760	.684	.071	.005
67	.999	.835	.156	.008
68	.687	.585	.094	.007
70	1.92	1.72	.100	.105
72	.884	.794	.080	.010
73	3.14	2.55	.402	.193
74	1.78	1.52	.069	.189
76	.910	.873	.025	.012

DRAWN BY _____ CHECKED BY _____ APPROVED BY _____
 DRAWING NUMBER _____

CORE: 438 (SHEET 2)



- Legend**
-  Sandstone
 -  Siltstone
 -  Mudstone
 -  Coal

TELKWA PROJECT

CORE 438

CROWS NEST RESOURCES, LTD

ACID-BASE CHARACTERISTICS

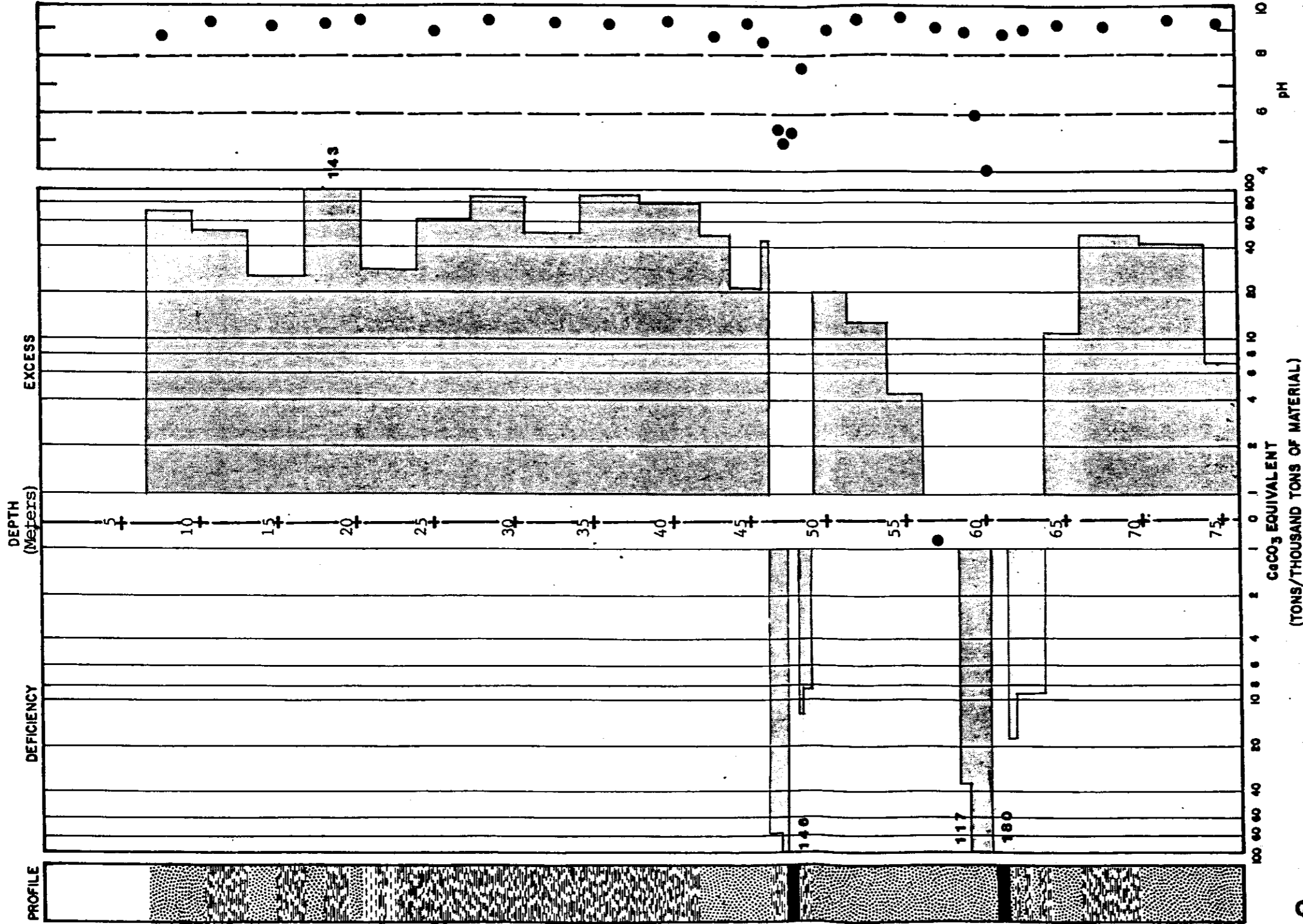
Sturm Environmental Services

DRAWING NUMBER

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APPROVED BY

DRAWN BY

CORE: 438 (SHEET 1)



TELKWA PROJECT
CORE 438
CROWS NEST RESOURCES, LTD
ACID-BASE CHARACTERISTICS

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TK-Telkwa S+ A
Appendix C

CROWS NEST RESOURCES LIMITED
TELKWA PROJECT
1984 SURVEY

240

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CROW'S NEST RESOURCES LIMITED

TELKWA PROJECT

COORDINATES OF 1984 DRILL HOLES

SURVEYED: 17-23 July 1984

NOTE:

ELEVATIONS are on Geodetic Datum and are derived by reciprocal trigonometric levelling from bench marks 1523, 3324, 1629, 2565, 2968 & 2574

COORDINATES are on UTM (Zone 9) grid and are derived from Government stations: CREEK, MUCHO, PABLO, P. CON. 18, POWER, & TACK

AUGUST 11, 1984



DONALD E. WATSON B.C.L.S.

FILE #4275

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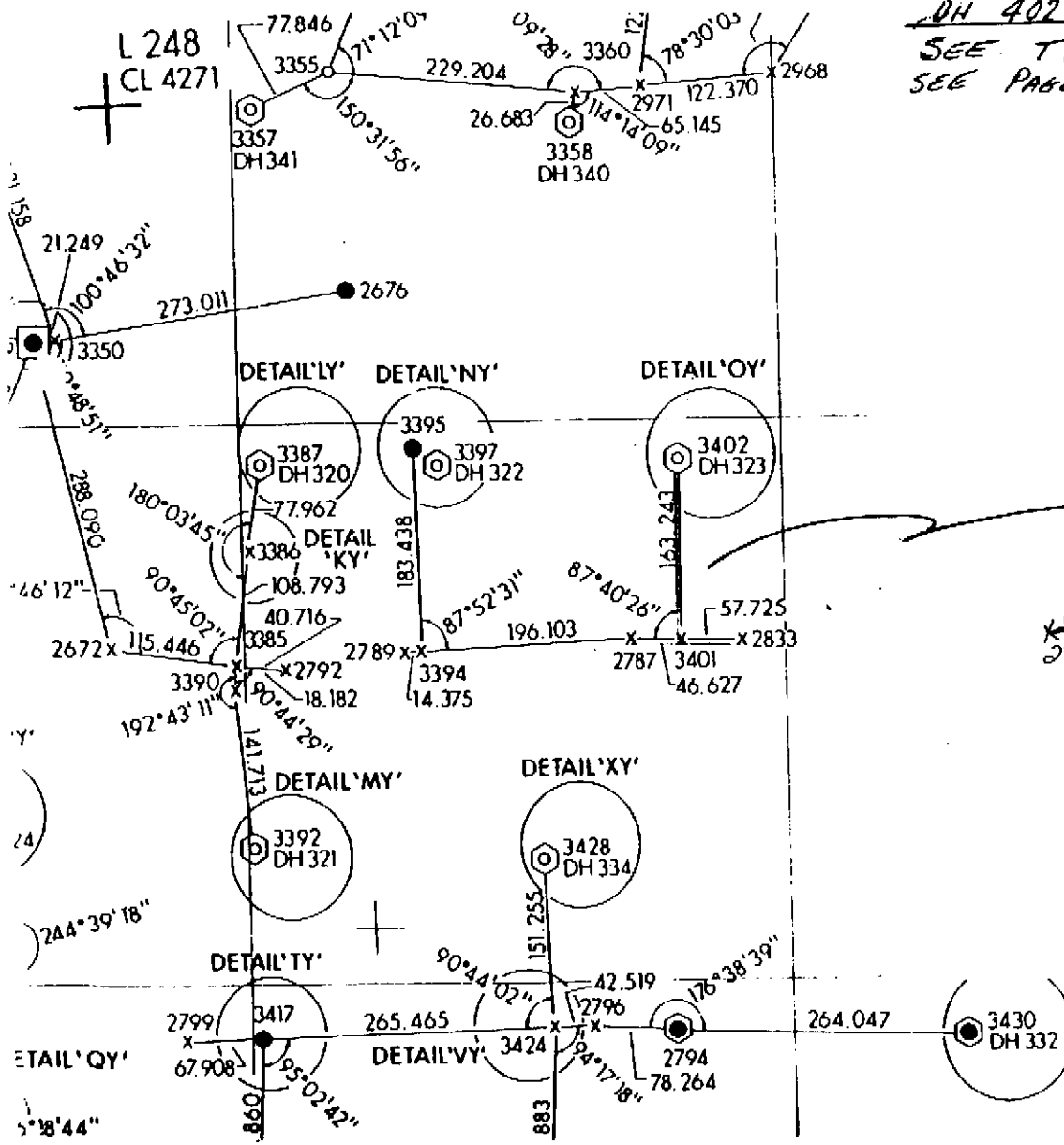
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1984 DRILL HOLES

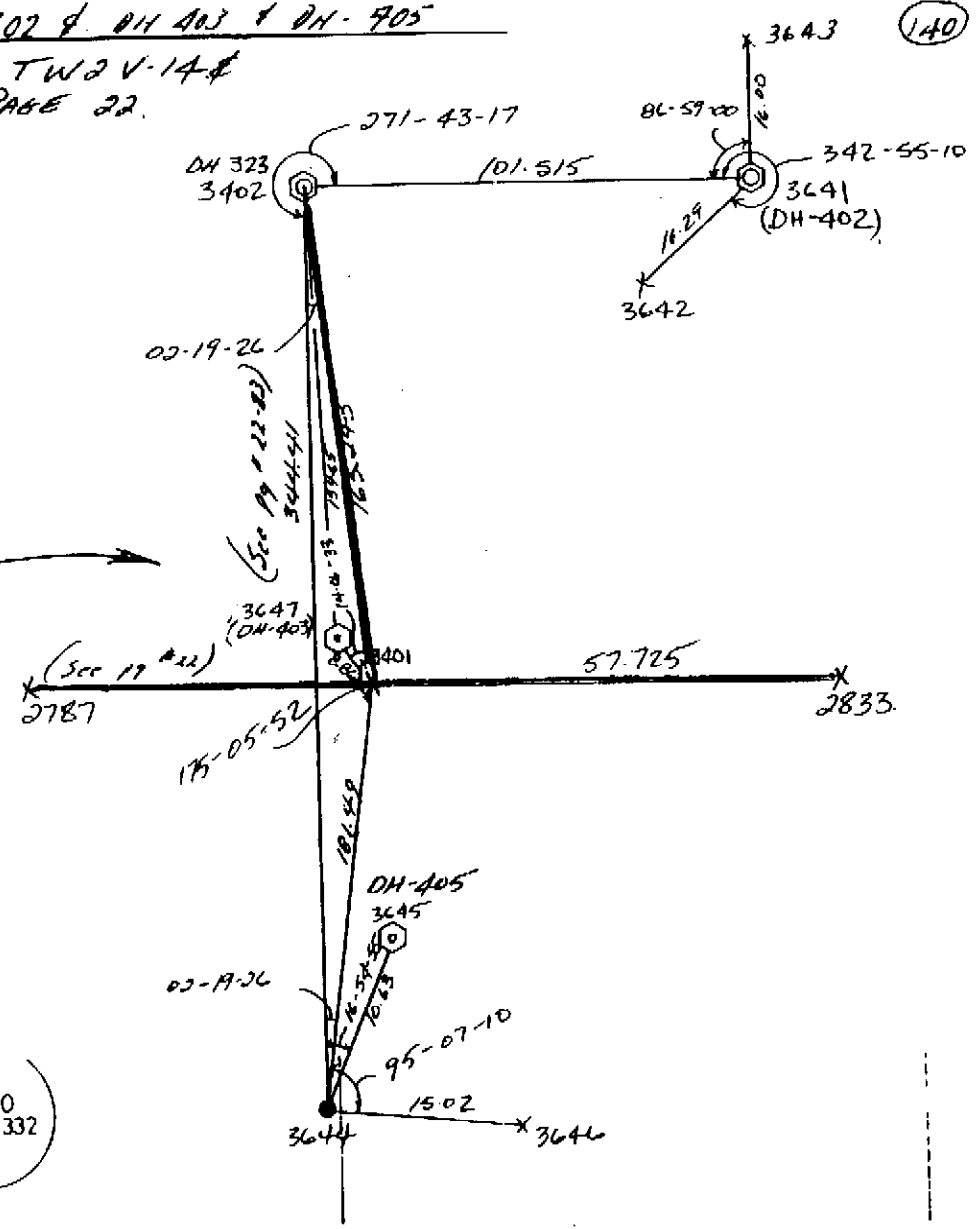
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DH 402	3641	6,053,962.32	622,004.85	771.34	771.3
DH 403	3647	6,053,810.10	621,902.14	779.30	779.3
DH 404	3536	6,056,393.23	621,643.49	649.26	649.3
DH 405	3645	6,053,630.65	621,893.43	791.16	791.3
DH 406	3572	6,055,911.03	621,634.53	674.84	673.6
DH 407	3652	6,053,644.29	621,650.60	790.52	790.5
DH 408	3566	6,055,924.42	622,165.17	673.00	673.1
DH 409	3655	6,053,445.11	621,783.12	807.81	807.9
DH 410	3548	6,056,153.14	622,147.71	663.68	662.5
DH 411	3638	6,052,719.04	621,482.40	836.59	836.6
DH 412	3549	6,056,132.33	621,920.09	663.60	663.3
DH 413	3609	6,054,402.16	620,905.39	737.29	737.3
DH 414	3555	6,056,137.00	621,650.51	660.96	660.2
DH 415	3613	6,054,501.91	620,937.59	731.61	731.6
DH 416	3559	6,056,136.65	621,425.92	654.68	654.7
DH 417	3617	6,054,505.59	621,104.86	739.77	739.8
DH 418	3604	6,054,234.53	621,082.32	756.78	756.8
DH 419	3542	6,056,328.47	621,885.85	654.41	654.4
DH 420	3602	6,054,388.91	621,253.99	748.44	748.4
DH 421	3524	6,056,427.44	622,425.55	647.43	647.6
DH 422	3628	6,054,629.47	621,265.58	726.00	726.0
DG 423	3527	6,056,680.93	622,447.25	650.14	649.1
DH 424	3623	6,054,756.26	620,996.28	718.10	718.2
DH 425	3537	6,056,682.67	622,189.77	638.46	638.6
DH 426	3636	6,053,944.95	620,803.61	756.57	756.6
DH 427	3521	6,056,454.92	622,676.58	660.89	661.1
DH 428	3590	6,054,499.81	621,367.54	735.30	735.4
DH 429	3529	6,056,680.32	621,925.18	638.73	637.7
DH 430	3589	6,054,618.71	621,529.05	725.09	725.1
DH 431	3577	6,055,268.15	621,617.75	702.72	702.7
DH 432	3594	6,054,611.84	621,667.59	728.44	728.4
DH 433	3587	6,054,626.64	621,891.29	728.49	727.7
DH 434	3573	6,055,486.21	621,548.50	688.88	688.6
DH 435	3585	6,054,876.10	621,881.91	718.67	717.8
DH 436	3580	6,055,271.24	621,188.82	694.63	694.8
DH 437	3598	6,054,897.70	621,698.56	715.64	715.5
DH 438	3620	6,055,041.73	621,237.94	708.16	708.2
DH 439	NOT USED				
DH 440	3676	6,059,637.49	617,695.88	891.10	891.3
DH 441	3681	6,059,598.97	618,291.69	839.23	839.4
DH 442	3662	6,059,821.64	618,519.92	830.02	830.1
DH 443	3669	6,059,544.04	618,880.29	770.21	770.2
DH 444	3666	6,059,853.38	619,102.18	765.48	765.5



 DONALD E. WATSON B.C.L.S
 July 30/84

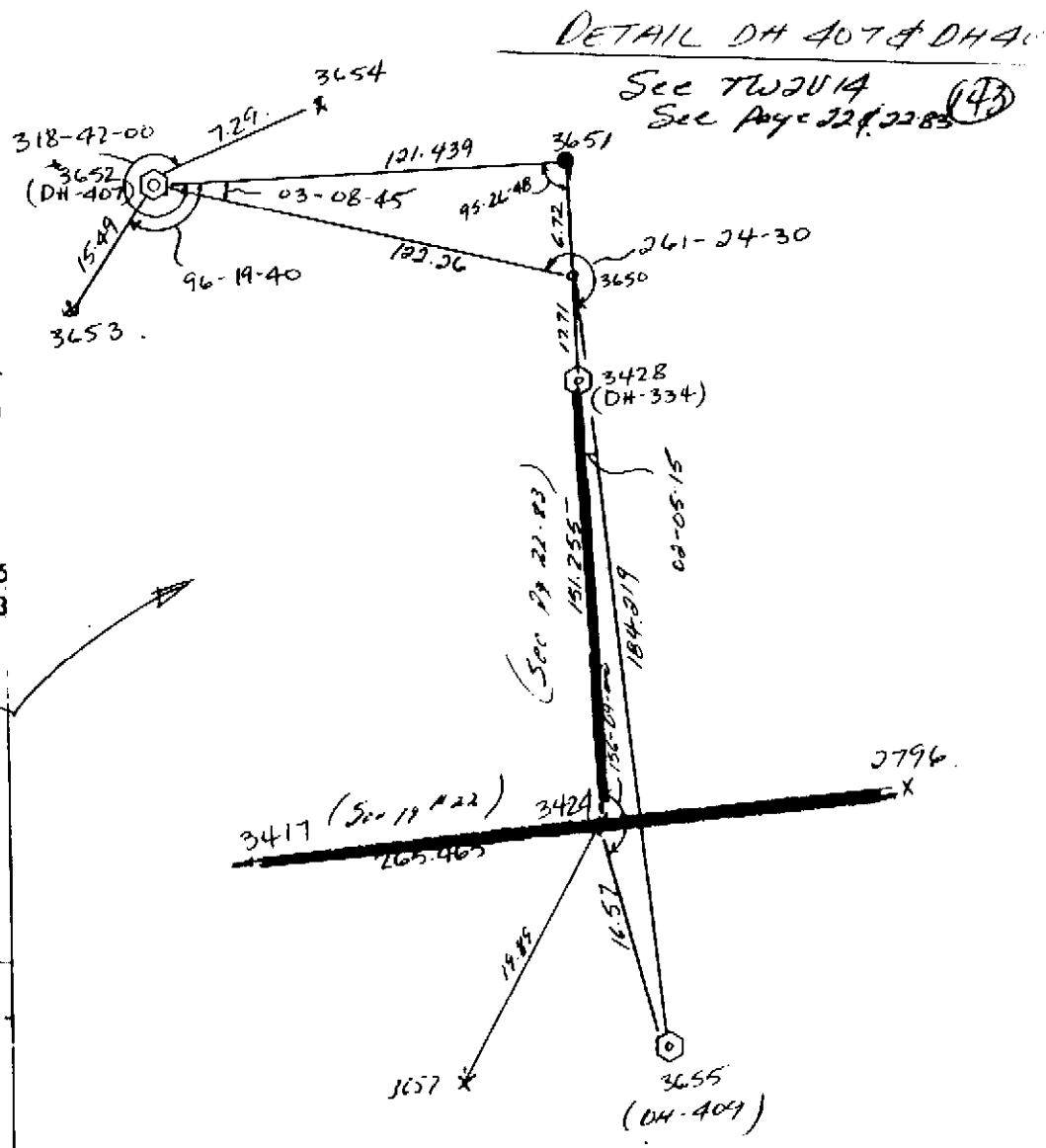
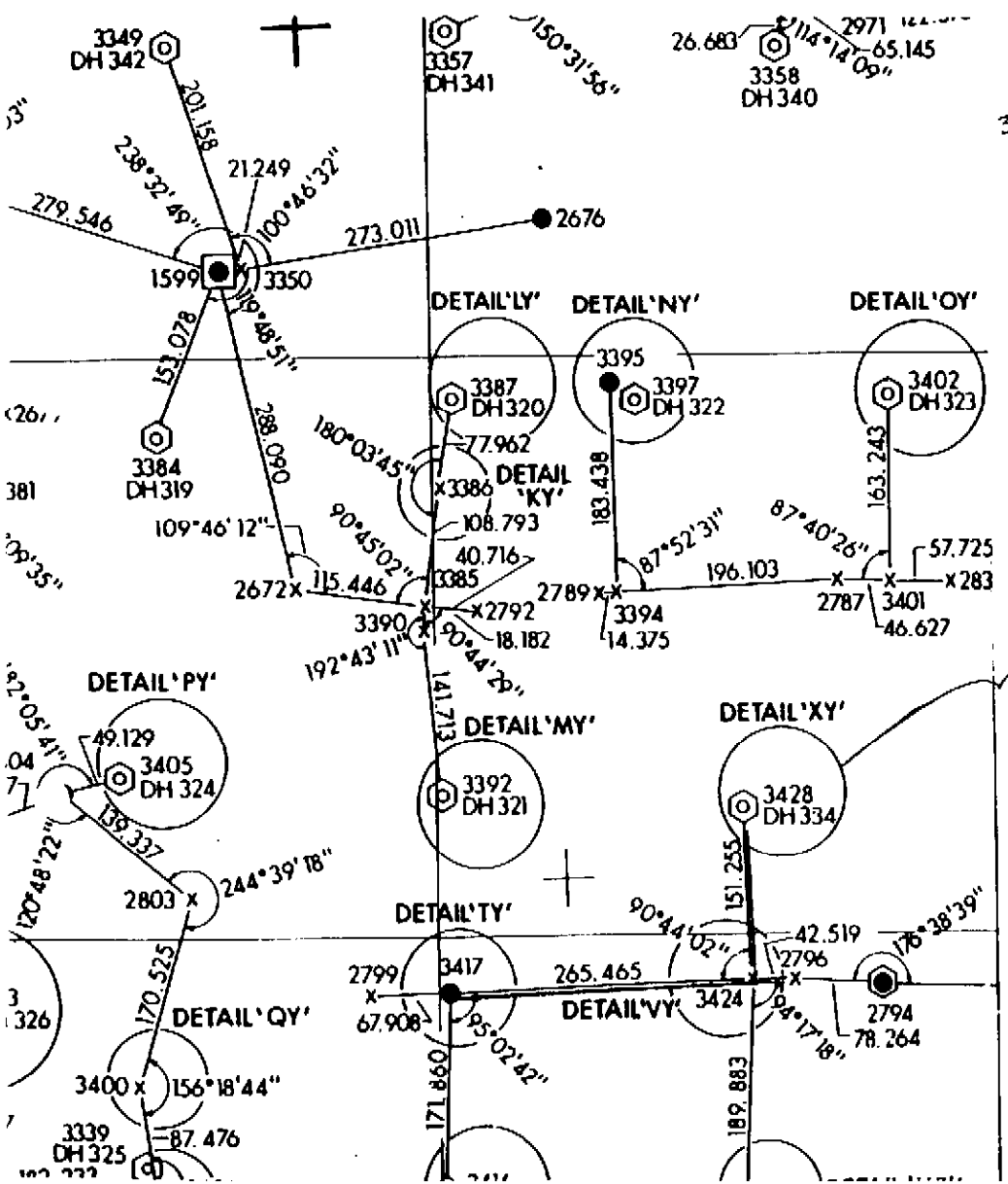


DH 402 & DH 403 & DH 905
 SEE TWO V-14 &
 SEE PAGE 22.



STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3402	Old Nail (DH-323)			769.70	769.7	6,053,964.75	621,903.36	
		91-22-26	101.515					
3641	Nail & Tag in log (DH-402)			771.34	771.3	6,053,962.32	622,004.85	
		254-17-36	16.29					
	Nail & Tag #3642 in 0.20 Ø Spruce			773.18	772.2	6,053,957.91	621,989.16	
		358-21-26	16.00					
	Nail & Tag #3643 in 0.35 Ø Spruce			772.95	771.5	6,053,978.31	622,004.39	
3402	Old Nail (DH-323)			769.70	769.7	6,053,964.75	621,903.36	
		182-13-57	344.41					
3644	75cm Iron Pin			791.83	791.8	6,053,620.60	621,889.94	
		04-33-23	181.49					
3401	Old 20cm Spike			780.09	780.1	6,053,801.51	621,904.35	
3644	75cm Iron Pin			791.83	791.8	6,053,620.60	621,889.94	
		19-08-52	10.63					
	Nail & Tag 3645 (DH405)			791.16	791.3	6,053,630.65	621,893.43	
		97-21-07	15.02					
	Nail & Tag #3646 in 10cm Ø Spruce			789.25	787.9	6,053,618.68	621,904.84	

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3401	Old 20cm Spike	345-32-36	8.86	780.09	780.1	6,053,801.51	621,904.35	
	Nail & Tag #3647 (DH-403)			779.30	779.3	6,053,810.09	621,902.14	

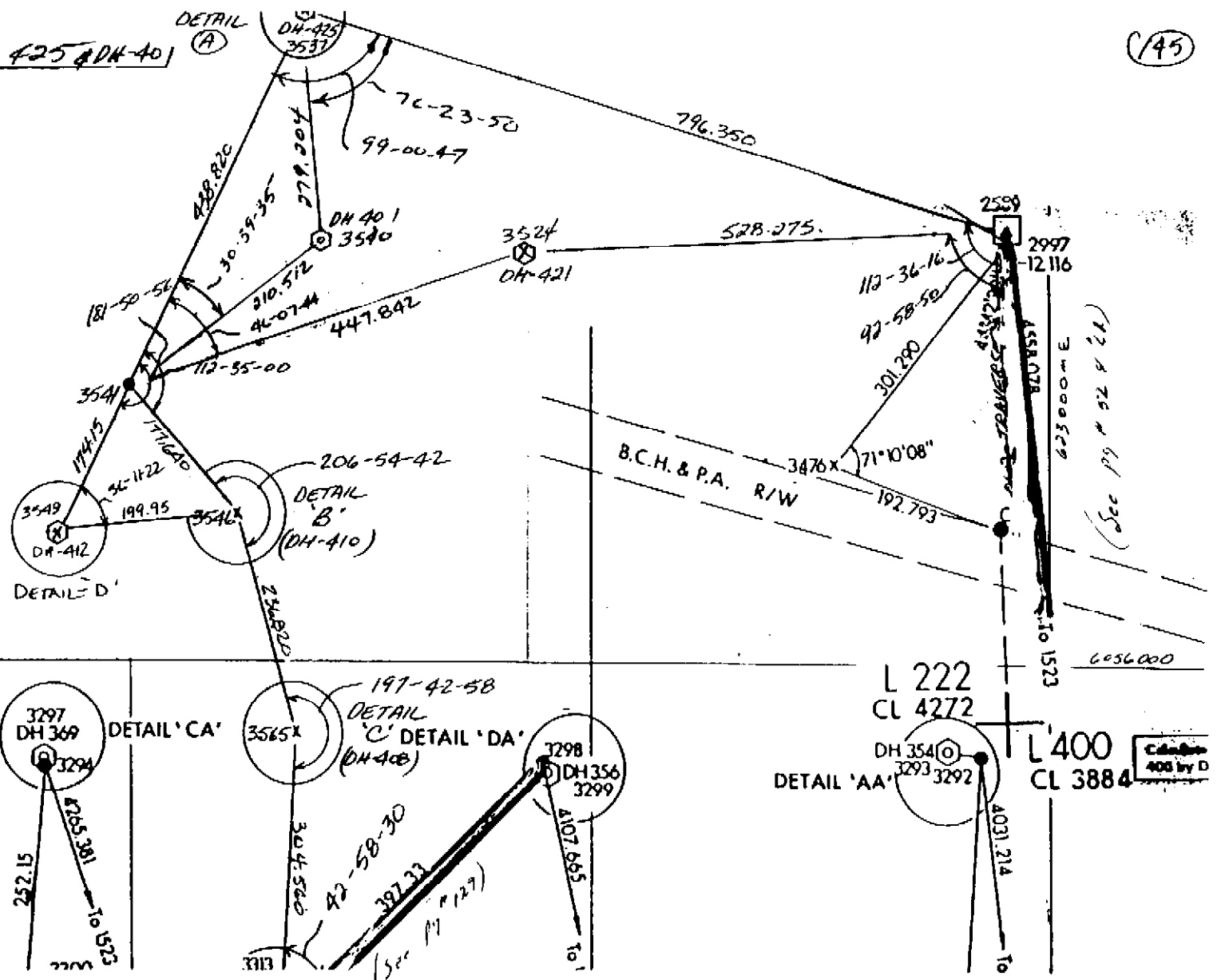


STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3428	Nail & Tag in Log (DH-334)			790.57	790.6	6,053,611.31	621,772.34	
		358-35-40	17.712					
3650	Nail & Tag in Stump			790.16	790.1	6,053,629.02	621,771.91	
		358-35-40	6.718					
3651	75cm Iron Pin			789.25	789.3	6,053,629.02	621,771.74	
		274-02-28	121.439					
3652	Nail in Log (DH-407)			790.52	790.5	6,053,644.29	621,650.60	
		97-11-13	122.262					
3650	Nail & Tag in Stump			790.16	790.1	6,053,629.02	621,771.91	
		178-35-40	168.956					
3424	Old 20cm Spike			806.49	806.5	6,053,460.10	621,776.05	
		154-44-10	16.573					
	Nail & Tag 3655 (DH-409)			807.81	807.9	6,053,445.11	621,783.12	
		214-05-40	19.89					
	Nail & Tag 3657 In 0.50 Ø Spruce					6,053,443.62	621,764.90	
3652	Nail in log (DH-407)			790.52	790.5	6,053,644.29	621,650.60	
		190-22-08	15.49					
	Nail & Tag #3653 In 0.60 Ø Spruce			792.14	791.5	6,053,629.05	621,647.82	
		52-44-28	7.29					
	Nail & Tag #3654 In 0.10 Ø Fir			791.53	789.8	6,053,648.70	621,656.41	

(145)

DH-408 & DH-410 & DH-412 & DH-425 & DH-401

see TW2V14
see page (52 & 61)



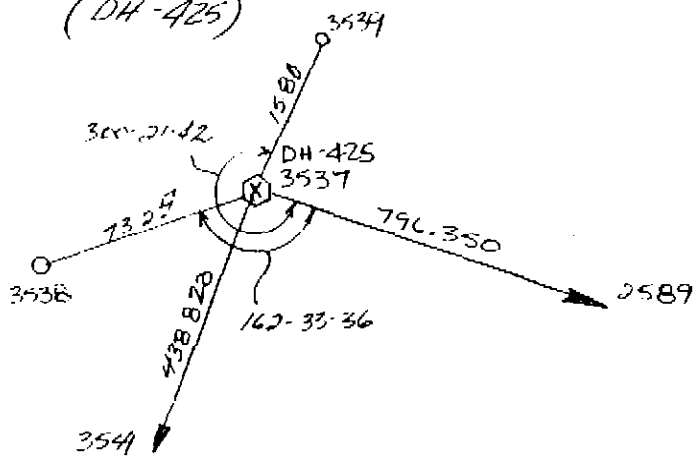
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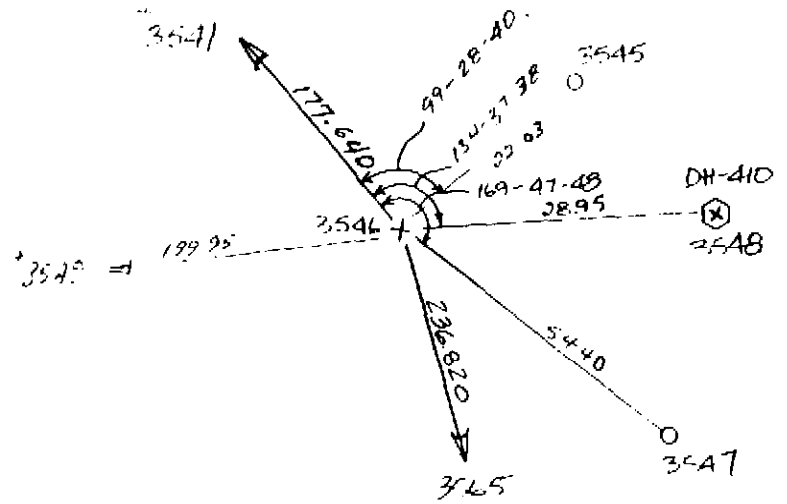
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DETAIL - 'A'
(DH-425)

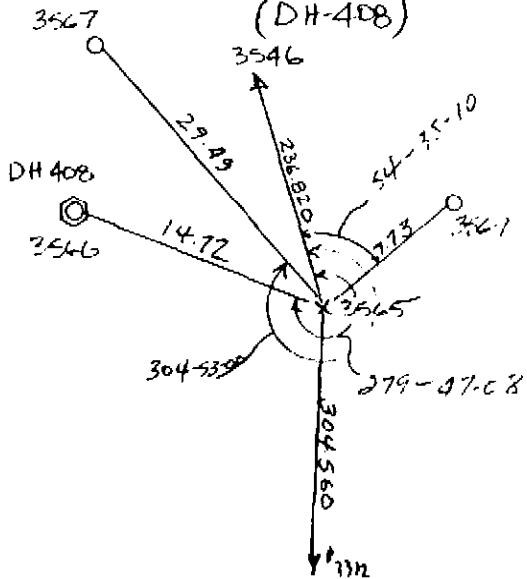


DETAIL - 'B'
(DH-410)

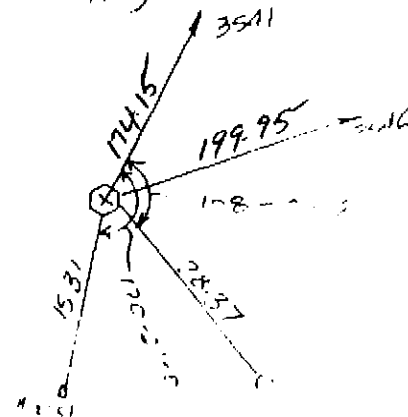
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DETAIL - 'C'
(DH-408)



DETAIL 'D'
(DH-412)



STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
1523	75cm (Old) Iron Pin "RIPPLE"			1216.59	1216.2	6,051,910.71	623,433.52	10
		353-57-56	4570.19					
2589	75cm (Old) Iron Pin			689.499	689.5	6,056,455.58	622,953.07	5
		286-34-06	796.35					
3537	20cm Spike (DH-425)			638.45	638.6	6,056,682.67	622,189.77	5
		205-34-54	438.82					
3541	75cm Iron Pin			658.87	658.7	6,056,286.87	622,000.29	5
		138-09-12	177.64					
3546	20cm Spike			662.99	663.1	6,056,154.54	622,118.80	5
		165-03-46	236.82					
3565	20cm Spike			673.09	673.2	6,055,925.75	622,179.83	5
		182-46-37	304.56					
3312	Old 20cm Spike			687.41	687.4	6,055,621.58	622,165.08	5
		45-45-07	397.33					
3298	Old 75cm Iron Pin			670.72	670.7	6,055,898.82	622,449.70	5

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3537	20cm Spike (DH-425)	46-56-54	15.800	638.46	638.6	6,056,682.67	622,189.77	5
	Nail & Tag #3539 in 0.10 Ø Willow	269-07-54	73.246	639.27	637.7	6,056,693.46	622,201.32	
	Nail & Tag #3538 in 0.50 Ø Dead Spruce			636.74	635.4	6,056,681.56	622,116.54	
3546	20cm Spike	92-46-43	28.95	662.99	663.1	6,056,154.54	622,118.80	
	Nail & Tag #3548 (DH-410)	127-56-53	54.40	663.68	662.5	6,056,153.14	622,147.71	
	Nail & Tag #3547 in 0.80 Ø Birch	57-37-45	22.03	665.42	663.7	6,056,121.09	622,161.69	
	Nail & Tag 3545 in 0.60 Ø Birch			664.31	664.3	6,056,166.34	622,137.40	
3537	20cm Spike (DH-425)	82-57-55	279.204	638.46	638.6	6,056,682.67	622,189.77	
3540	(DH-401)			648.61	648.6	6,056,403.84	622,175.33	
3541	75cm Iron Pin	56-14-49	210.512	638.46	638.6	6,056,286.87	622,000.29	
3540	(DH-401)			648.61	648.6	6,056,403.84	622,175.33	

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3565	20cm Spike			673.09	673.2	6,055,925.75	622,179.83	
	Nail & Tag #3566 (DH-408)	264-50-59	14.72	673.00	673.1	6,055,924.42	622,165.17	
	Nail & Tag #3567 in 0.20 Ø Spruce	289-56-48	29.49	674.15	672.5	6,055,935.81	622,152.11	
	Nail & Tag #3569 in 0.4 Ø Cottonwood	39-44-55	7.73	675.65	674.5	6,055,931.69	622,184.77	
3541	75cm Iron Pin			658.87	658.7	6,056,286.87	622,000.29	
	Nail & Tag #3524 (DH-421)	71-42-38	447.84	647.43	647.6	6,056,427.44	622,425.55	
2589	75cm Iron Pin			689.49	689.5	6,056,455.58	622,953.07	
	Nail & Tag #3524 (DH-421)	266-56-45	528.28	647.43	647.6	6,056,427.44	622,425.55	

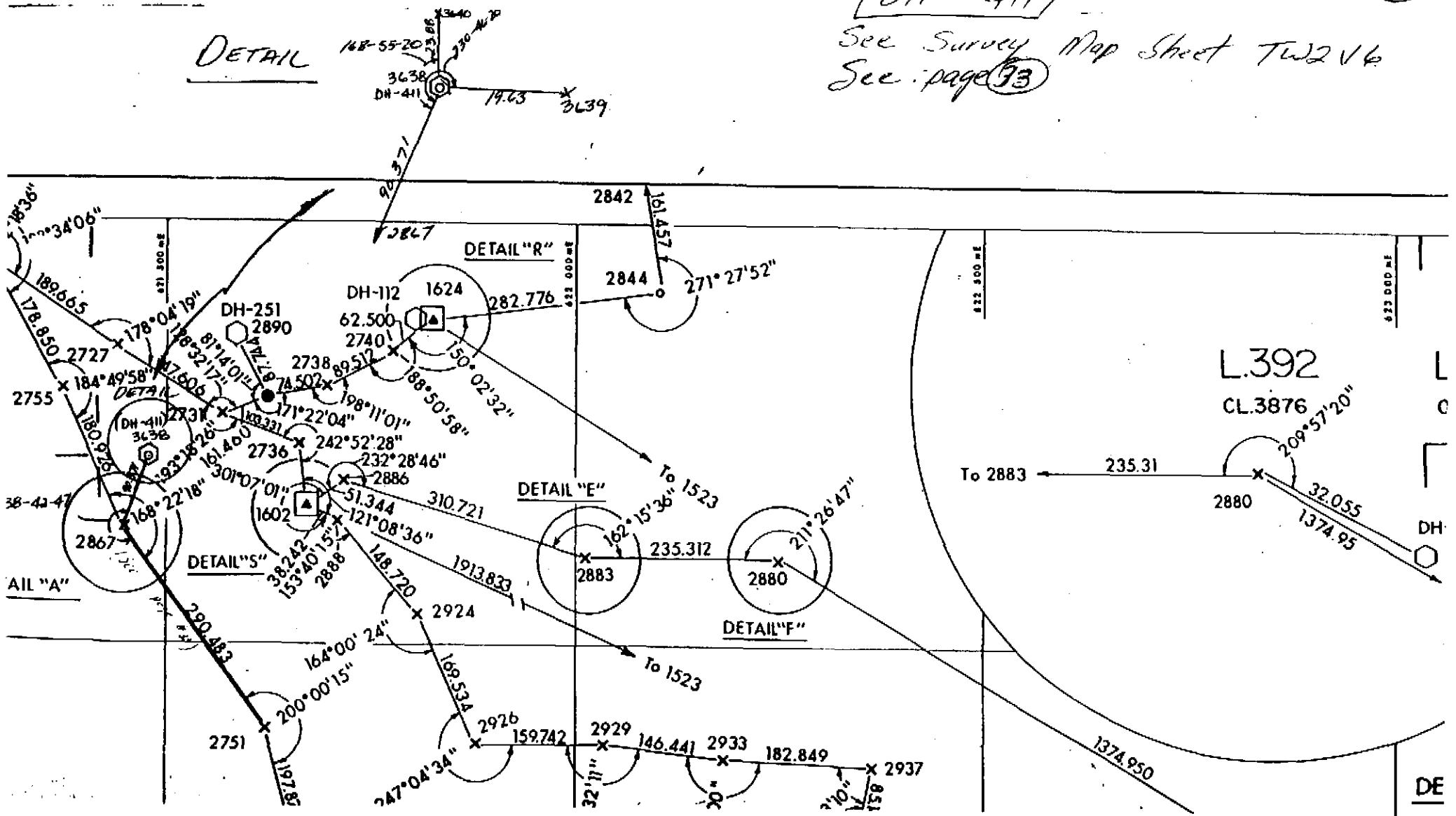
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3541	75cm Iron Pin			658.87	658.7	6,056,286.87	622,000.29	
		207-25-50	174.15					
3549	20cm Spike (DH-412)			663.60	663.3	6,056,132.33	621,920.09	
		83-37-12	199.95					
3546	20cm Spike			662.99	663.1	6,056,154.54	622,118.80	
3549	20cm Spike (DH-412)			663.60	663.3	6,056,132.33	621,920.09	
		135-46-57	28.37					
	Nail & Tag #3550 in 0.80 Ø Cotton-wood			665.74	664.5	6,056,111.99	621,939.87	
		197-47-45	15.31					
	Nail & Tag #3551 in 0.40 Ø Poplar			665.82	664.3	6,056,117.75	621,915.41	

DH - 411

(151)

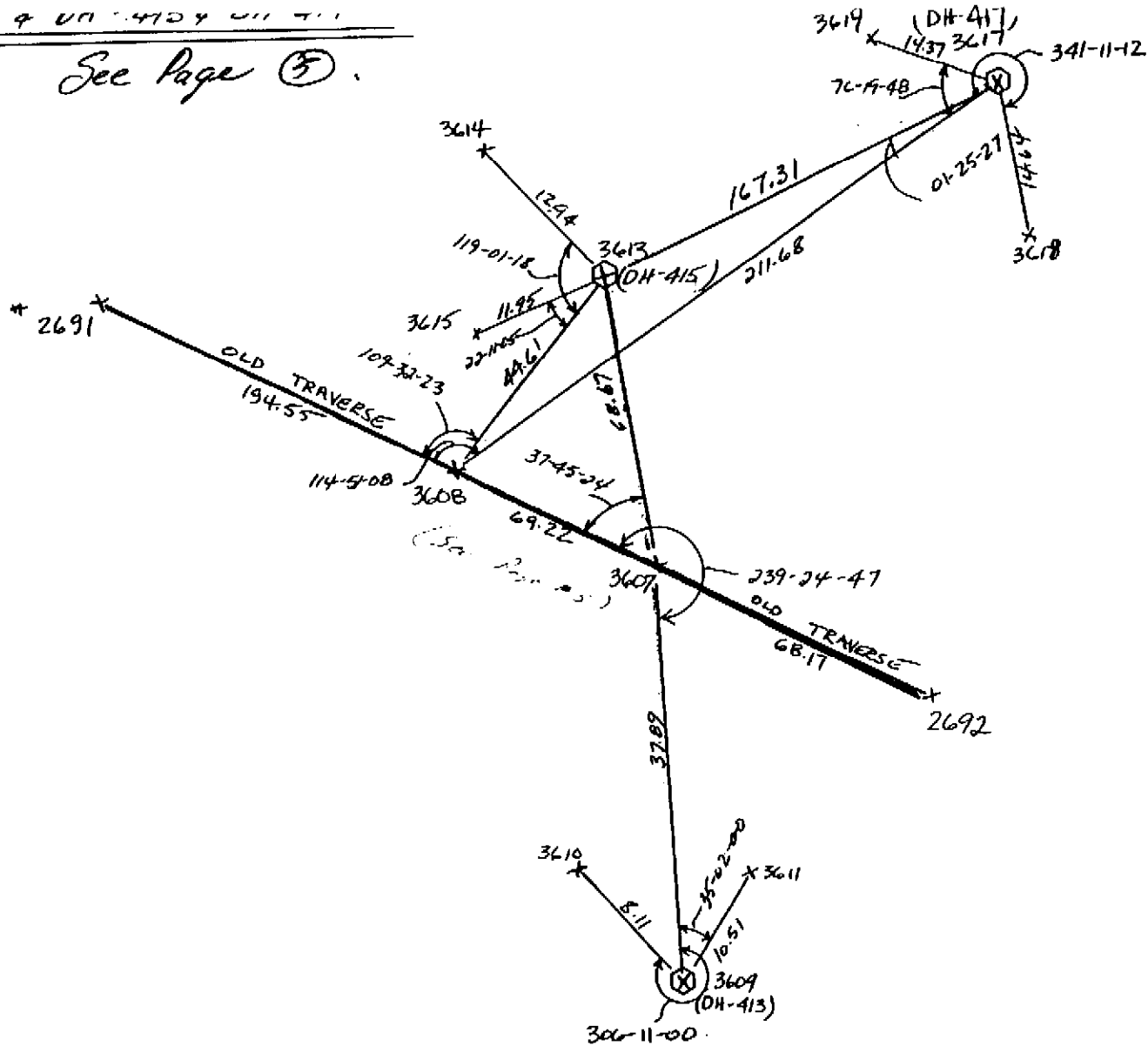
See Survey Map Sheet TW2 V6
See page 93

DETAIL



DH-410 & DH-4104 011 711

See Page 5.



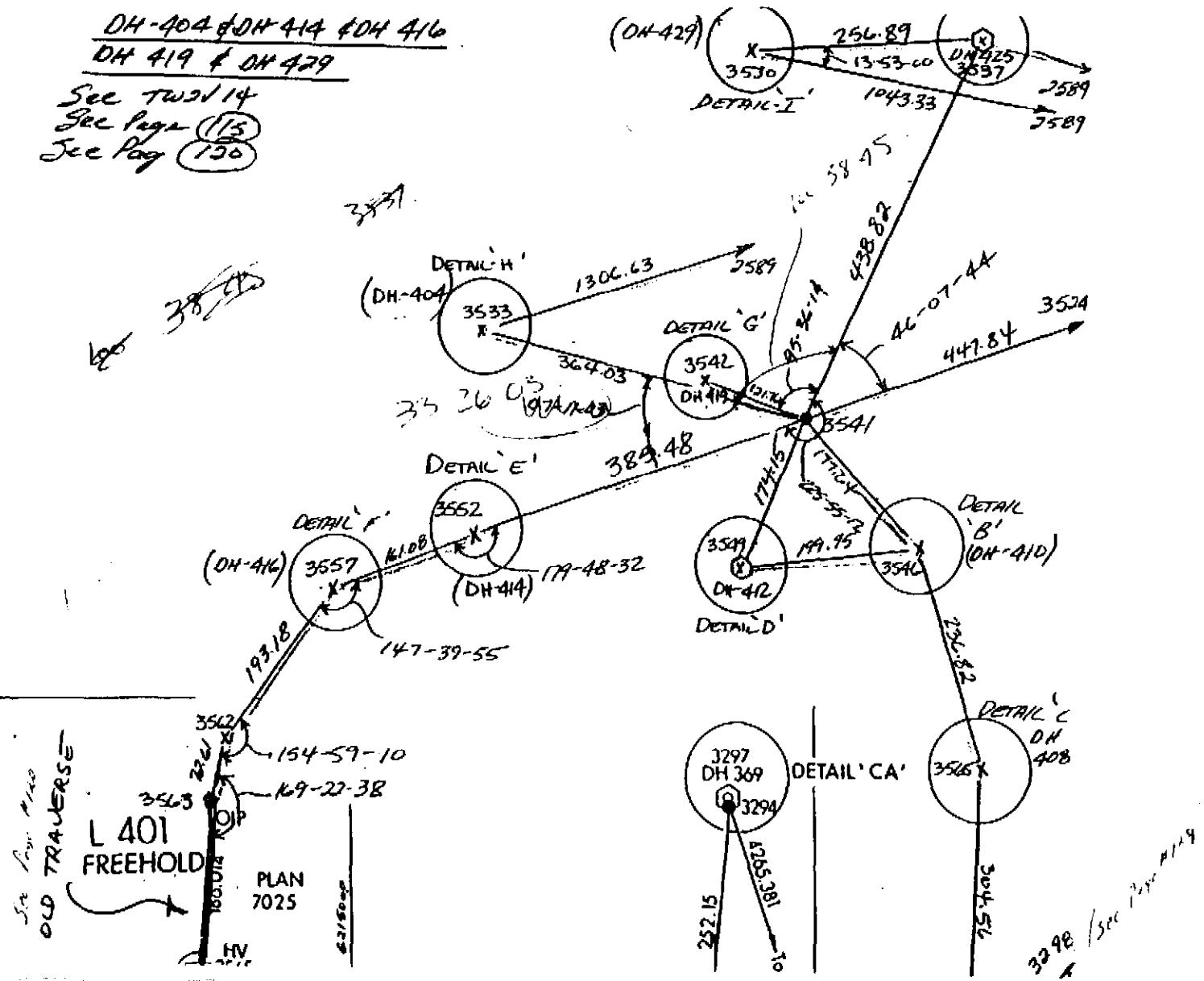
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2692	20cm Spike			745.24	745.2	6,054,373.87	620,956.91	
		332-28-25	68.17					
3607	20cm Spike			737.07	737.1	6,054,434.33	620,925.40	
		332-28-25	69.22					
3608	20cm Spike			730.09	730.1	6,054,495.71	620,893.41	
		332-28-25	194.55					
2691	20cm Spike			717.07	717.1	6,054,668.24	620,803.50	
2691	20cm Spike			717.07	717.1	6,054,668.24	620,803.50	
		152-28-26	263.77					
3607	20cm Spike			737.07	737.1	6,054,434.33	620,925.40	
		211-53-12	37.886					
3609	20cm Spike (DH-413)			737.29	737.3	6,054,402.16	610,905.39	
		338-04-13	8.11					
	Nail & Tag #3610 in 0.35 Ø Birch			738.78	737.6	6,054,409.68	620,902.36	
		66-55-12	10.51					
	Nail & Tag #3611 in 0.30 Ø Cotton-wood			739.66	738.2	6,054,406.28	620,915.06	

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2691	20cm Spike	152-28-25	194.55	717.07	717.1	6,054,668.24	620,803.50	
3608	20cm Spike	82-00-48	44.61	730.09	730.1	6,054,495.71	620,893.41	
3613	20cm Spike (DH-415)	21-02-07	12.94	731.61	731.6	6,054,501.91	620,937.59	
	Nail & Tag #3614 in 0.50 Ø Cotton-wood	284-11-54	11.95	732.93	731.6	6,054,513.98	620,942.24	
	Nail & Tag #3615 in 0.50 Ø Birch			732.54	731.2	6,054,504.84	620,926.01	
2691	20cm Spike	152-28-25	194.55	717.07	717.1	6,054,668.24	620,803.50	
3608	20cm Spike	87-19-34	211.68	730.09	730.1	6,054,495.71	620,893.41	
3617	20cm Spike (DH-417)	343-39-18	14.37	739.77	739.8	6,054,505.59	621,104.86	
	Nail & Tag #3619 in 0.25 Ø Birch	248-30-46	14.64	742.06	740.6	6,054,519.38	621,100.82	
	Nail & Tag #3618 in 0.50 Ø Willow			740.61	739.1	6,054,500.22	621,091.24	

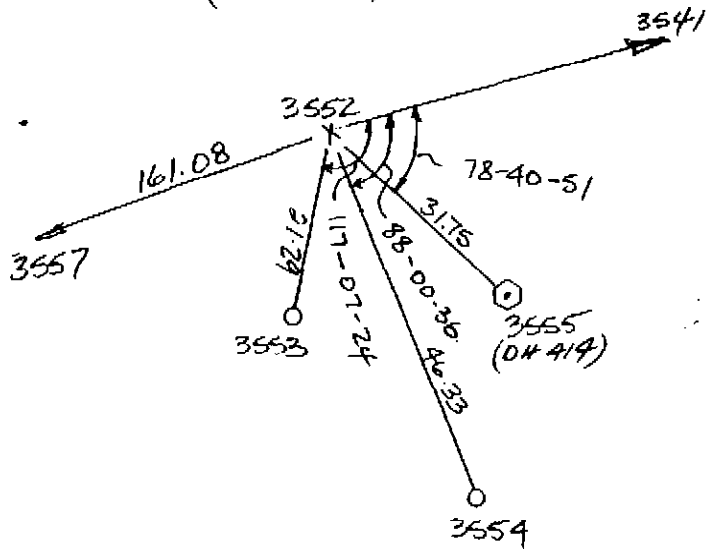
DH-404 & DH-414 & DH-416
DH-419 & DH-429

See TW 2114
See Page (115)
See Page (130)

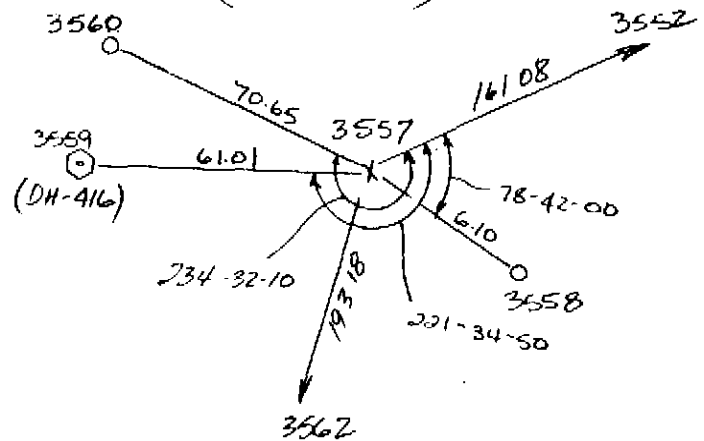
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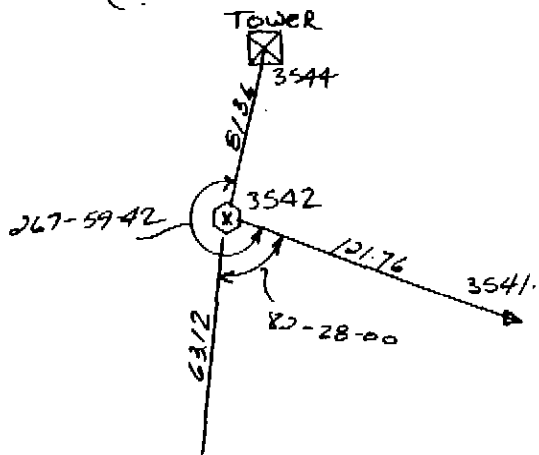
DETAIL 'E'
(DH-414)



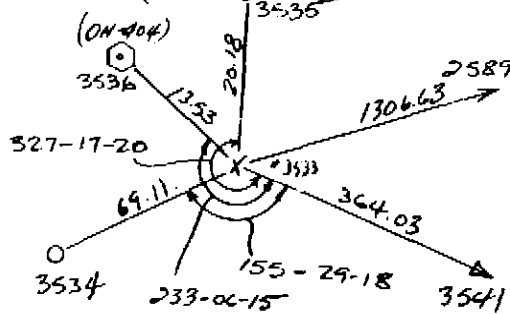
DETAIL 'F'
(DH-416)



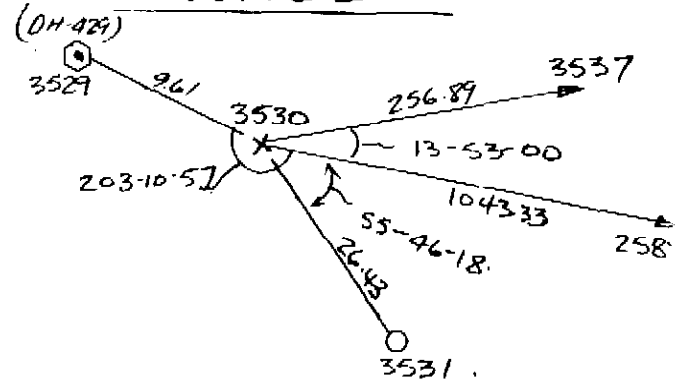
DETAIL 'G'
(DH-419)



DETAIL 'H'
(DH-404)



DETAIL 'I'
(DH-429)



STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3541	75cm Iron Pin	251-29-59	385.48	658.87	658.7	6,056,286.87	622,000.29	
3552	20cm Spike	251-18-27	161.08	658.42	658.6	6,056,164.55	621,634.72	
3557	20cm Spike	218-58-20	193.18	659.69	659.8	6,056,112.92	621,482.13	
3562	20cm Spike	193-57-27	72.61	668.08	668.3	6,055,962.73	621,360.63	
3563	OIP Lot 223 & Lot 401	183-20-01	186.04	668.84	668.8	6,055,892.27	621,343.12	
2565	Old 75 Iron Pin			676.72	676.7	6,055,706.54	621,332.30	

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3552	20cm Spike			658.42	658.6	6,056,164.55	621,634.72	
	Nail & Tag #3555 (DH-414)	150-10-50	31.75	660.96	660.2	6,056,137.00	621,650.51	
	Nail & Tag #3553 in 0.60 Ø Birch	88-37-23	21.29	661.75	660.1	6,056,143.50	621,631.53	
	Nail & Tag #3554 in 0.40 Ø Birch	159-30-35	46.33	662.11	660.5	6,056,121.15	621,650.94	
3557	20cm Spike			659.69	659.8	6,056,112.92	621,482.13	
	Nail & Tag #3559 (DH-416)	292-52-57	61.01	654.68	654.7	6,056,136.65	621,425.92	
	Nail & Tag #3558 in 0.90 Ø Cotton-wood	150-00-27	6.10	661.19	659.8	6,056,107.64	621,485.18	
	Nail & Tag #3560 in 0.80 Ø dead Spruce	305-50-37	70.65	656.36	654.6	6,056,154.29	621,424.86	

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3541	75cm Iron Pin			658.87	658.7	6,056,286.87	622,000.29	
		289-58-40	121.76					
3542	Nail & Tag @ (DH-419)			654.41	654.4	6,056,328.47	621,885.85	
		192-26-40	63.12					
	Nail & Tag #3543 0.70 Ø Dead Cottonwood			658.27	657.0	6,056,266.83	621,872.25	
		17-58-22	81.36					
	Nail & Tag #3544 T/L Tower			651.83	651.8	6,056,405.86	621,910.96	
3541	75cm Iron Pin			658.87	658.7	6,056,286.87	622,000.29	
		284-56-09	364.03					
3533	20cm Spike			648.71	648.7	6,056,380.69	621,648.55	
		86-42-53	1306.63					
2589	75cm Old Iron Pin			689.50	689.5	6,056,455.58	622,953.07	
3533	20cm Spike			648.71	648.7	6,056,380.69	621,648.55	
		338-02-24	13.53					
	Nail & Tag #3536 (DH-404)			649.27	649.3	6,056,393.24	621,643.49	
		260-25-27	69.11					
	Nail & Tag #3534 in 0.30 Ø Birch			652.20	650.0	6,056,369.19	621,580.41	
		72-13-29	20.18					
	Nail & Tag #3535 in 0.10 Ø Willow			649.14	647.7	6,056,386.85	621,667.77	

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3537	20cm Spike (DH-425)	268-14-40	256.89	638.46	638.6	6,056,682.67	622,189.77	
3530	20cm Spike	102-07-38	1043.33	637.42	637.5	6,056,674.80	621,933.00	
2589	Old 75cm Iron Pin			689.50	689.5	6,056,455.58	622,953.07	
3530	20cm Spike	305-18-34	9.61	637.42	637.5	6,056,674.80	621,933.00	
	Nail & Tag #3529 (DH-429)	157-53-55	26.43	638.73	637.7	6,056,680.32	621,925.18	
	Nail & Tag #3531 in 0.50 Ø Birch			638.30	637.5	6,056,650.28	621,942.97	

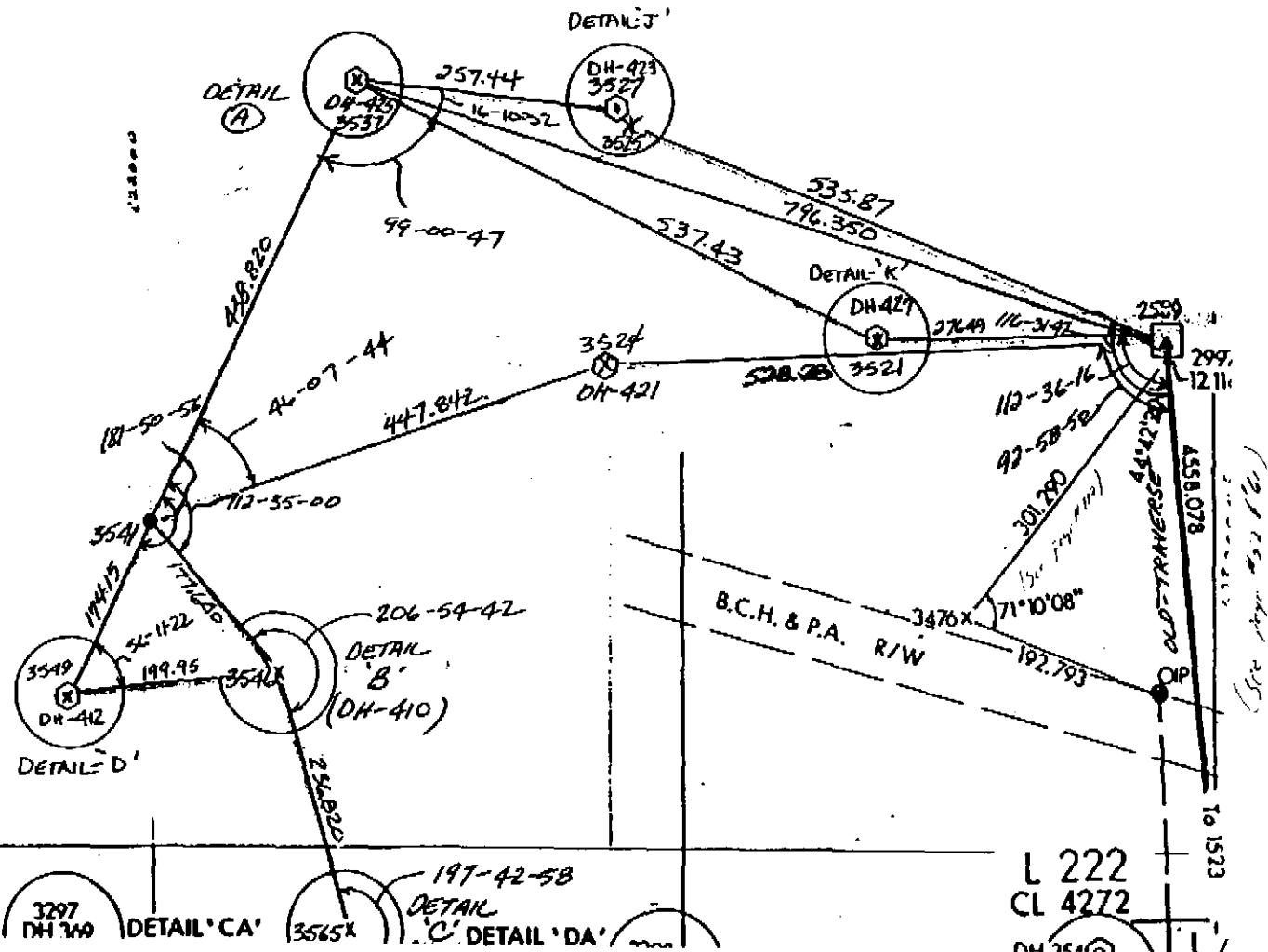
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3350	20cm Spike			770.23	770.2	6,054,077.45	621,333.65	
		341-00-34	201.158					
3349	Nail & Tag (DH-342)			757.39	757.4	6,054,267.66	621,268.19	
		353-19-53	122.077					
3602	Nail & Tag (DH-420)			748.44	748.4	6,054,388.91	621,253.99	
		176-49-29	138.190					
3603	20cm Spike			757.82	757.8	6,054,250.93	621,261.64	
		163-56-24	183.730					
1599	75cm Iron Pin			772.92	772.9	6,054,074.40	621,312.52	
		304-49-58	280.397					
3604	20cm Spike (DH-418)			756.78	756.8	6,054,234.53	621,082.32	
		07-01-10	86.097					
2687	20cm Spike			753.87	753.9	6,054,320.02	621,092.88	
3602	Nail & Tag (DH-420)			748.44	748.4	6,054,388.91	621,253.99	
		222-48-01	8.92					
	Nail & Tag #3600 in 0.70 Cottonwood			750.66	749.0	6,054,382.36	621,247.93	
		316-53-01	7.416					
	Nail & Tag #3601 in 0.70 Cottonwood			749.79	748.3	6,054,394.32	621,248.92	

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3604	20cm Spike (DH-418)			756.78	756.8	6,054,234.53	621,082.32	
	Nail & Tag #3605 in 1.00 Ø Cotton wood	120-12-41	20.62	757.64	756.4	6,054,063.99	621,330.30	
	Nail & Tag #3606 in 0.60 Ø Cotton-wood	01-49-31	37.71	757.74	756.4	6,054,112.06	621,313.67	

DH-423 & DH-427

SEC TWAVIA

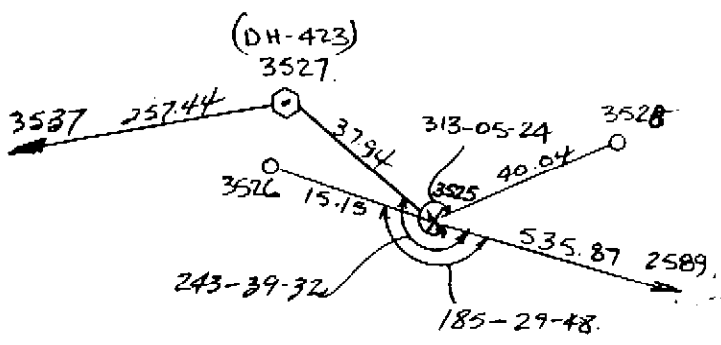
165



Consulted by
-R.C.L.A.

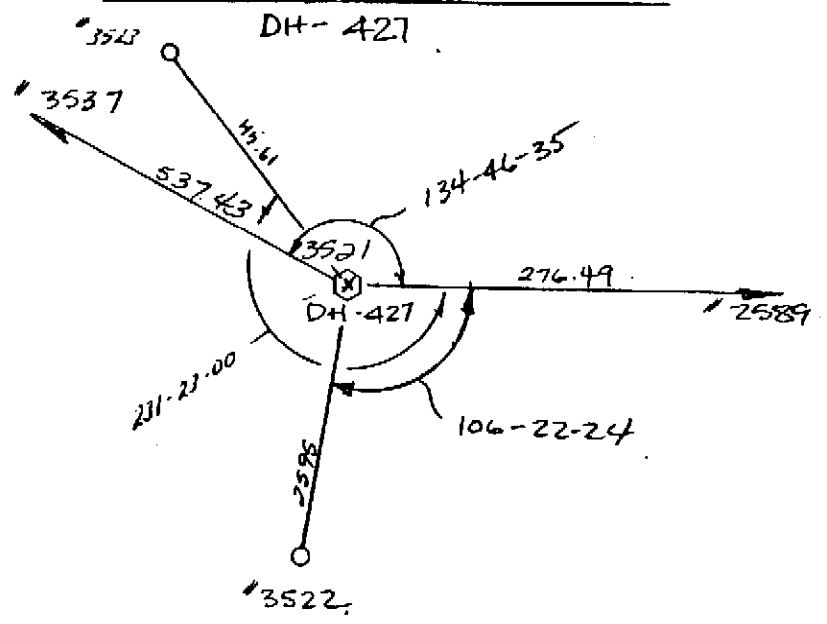
L 222
CL 4272
DH 3549

DETAIL 'J'



DETAIL - 'K'

(1769)

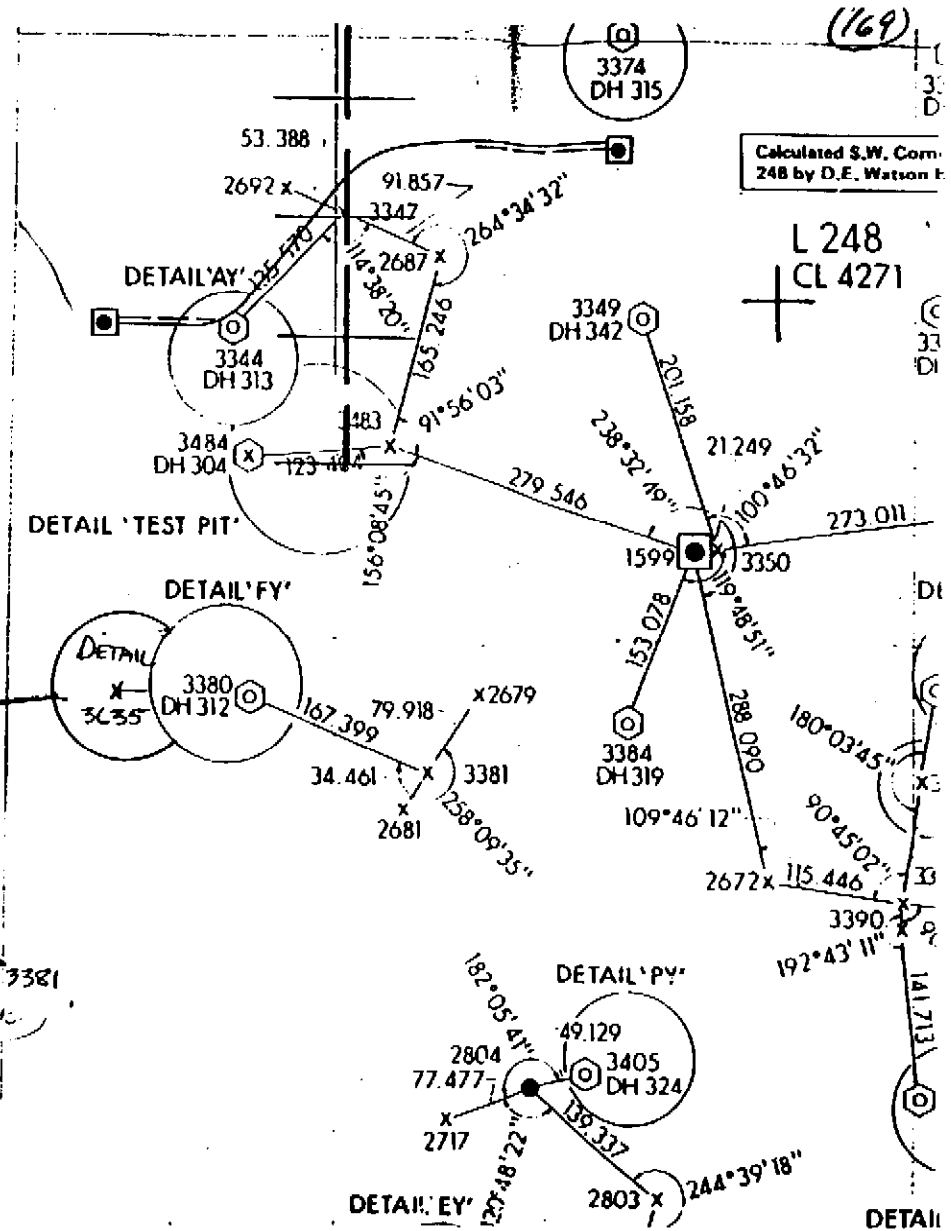
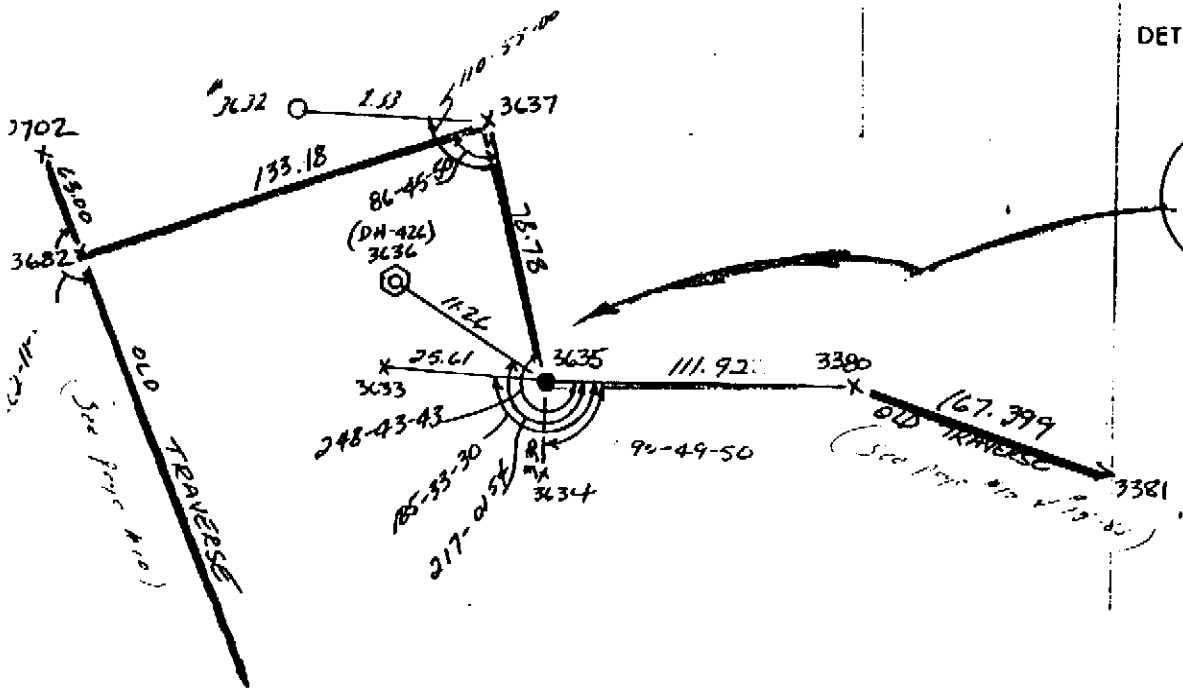


STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2589	Old 75cm Iron			689.50	689.5	6,056,455.58	622,953.07	
3525	20cm Spike	290-29-38	535.87	649.01	649.0	6,056,643.19	622,451.12	
	Nail & Tag #3526 in 0.10 # Poplar	295-59-26	15.15	648.77	647.5	6,056,649.83	622,437.50	
	Nail & Tag #3527 (DH-423)	354-09-10	37.94	650.14	649.1	6,056,680.93	622,447.25	
	Nail & Tag #3528 In 0.10 # Poplar	63-35-01	40.04	651.67	650.7	6,056,661.00	622,486.98	
3537	20cm Spike (DH-425)			638.45	638.6	6,056,682.67	622,189.77	
3527	20cm Spike (DH-423)	90-23-14	257.43	650.14	649.1	6,056,680.93	622,447.25	

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2589	Old 75cm Iron Pin			689.50	689.5	6,056,455.58	622,953.07	
3521	20cm Spike (DH-427)	269-51-46	276.49	660.89	661.1	6,056,454.92	622,676.58	
3537	20cm Spike (DH-425)	295-04-36	537.43	638.45	638.6	6,056,682.67	622,189.77	
3521	20cm Spike (DH-427)			660.89	661.1	6,056,454.92	622,676.58	
	Nail & Tag #3523 in 0.10 \emptyset Willow	321-14-46	45.61	661.04	659.9	6,056,490.49	622,648.03	
	Nail & Tag #3522 in 0.30 \emptyset Poplar	196-13-17	25.95	662.08	661.0	6,056,430.00	622,669.33	

1 DH-426 1
 See Map Sheet TW2V14.
 See page (15)

DETAIL



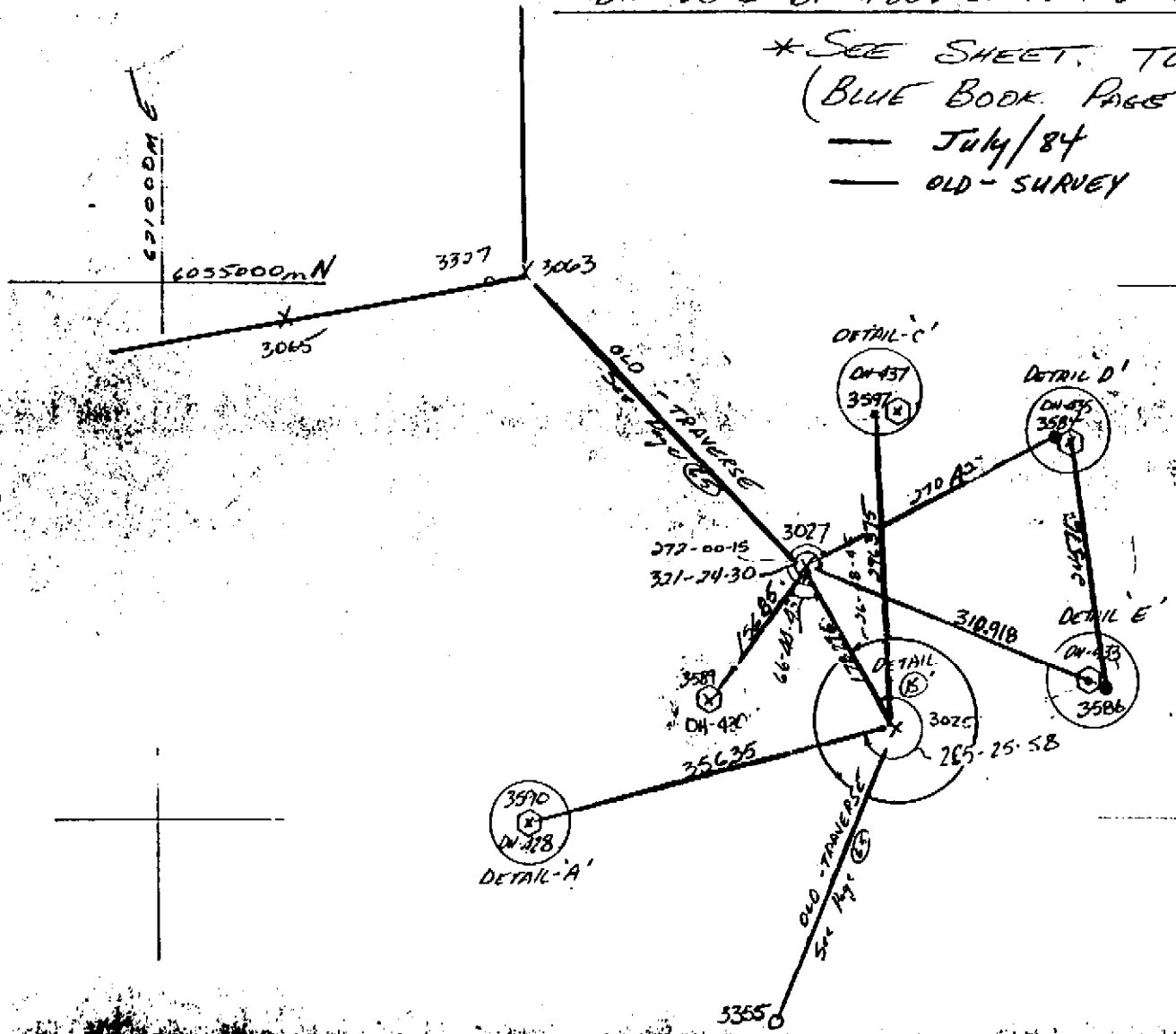
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3380	Nail & Tag in Ground (DH-312)			764.92	764.9	6,053,952.35	620,924.49	
		263-17-07	111.922					
3635	75cm Iron Pin			757.44	757.4	6,053,939.26	620,813.34	
		332-00-50	78.778					
3637	20cm Spike			752.17	752.1	6,054,008.83	620,776.37	
		238-46-40	133.175					
3682	20cm Spike			737.90	737.9	6,053,939.80	620,662.48	
		320-57-26	63.004					
2702	Old 20cm Spike			736.24	736.2	6,053,988.69	620,622.87	
3635	75cm Iron Pin			757.44	757.4	6,053,939.26	620,813.34	
		268-50-37	25.61					
	Nail & Tag #3633 in 0.20 Ø Poplar			757.75	755.7	6,053,938.75	620,787.73	
		174-06-57	3.30					
	Nail & Tag #3634 in 0.400 Ø Cottonwood			759.29	758.0	6,053,935.98	620,813.67	
		300-19-01	11.26					
	Nail & Tag #3636 (DH-426)			756.57	756.6	6,053,944.95	620,803.61	
3637	20cm Spike			752.17	752.1	6,054,008.83	620,776.37	
		262-55-00	2.33					
	Nail & Tag #3632 in 0.25 Ø Poplar			752.83	751.2	6,054,008.54	620,774.05	

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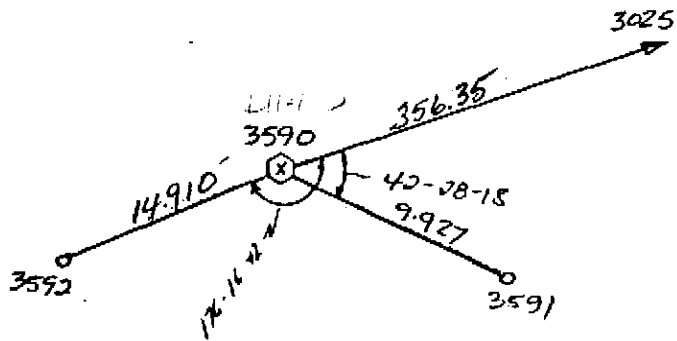
DH 428 & DH 430: DH 432 & DH 433 & DH 435 & DH 437

* SEE SHEET TW2V14
(BLUE BOOK PAGE (65))

— July/84
— OLD - SURVEY

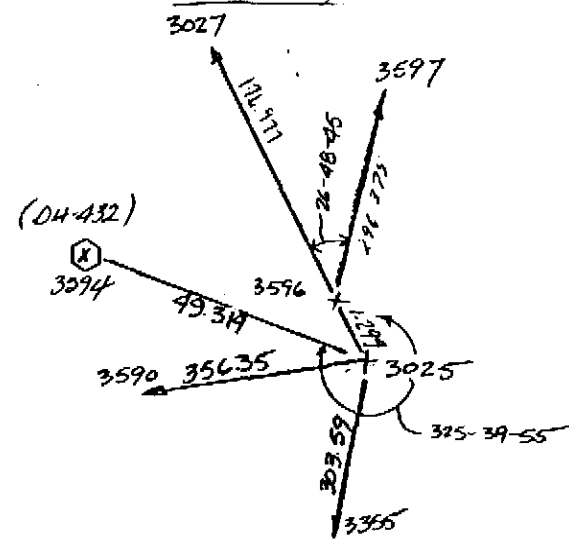


DETAIL - A'
(DH-428)

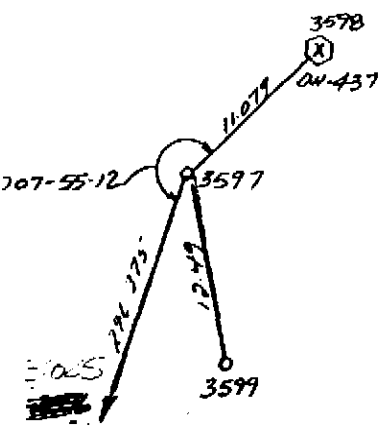


DETAIL B'
(DH-432)

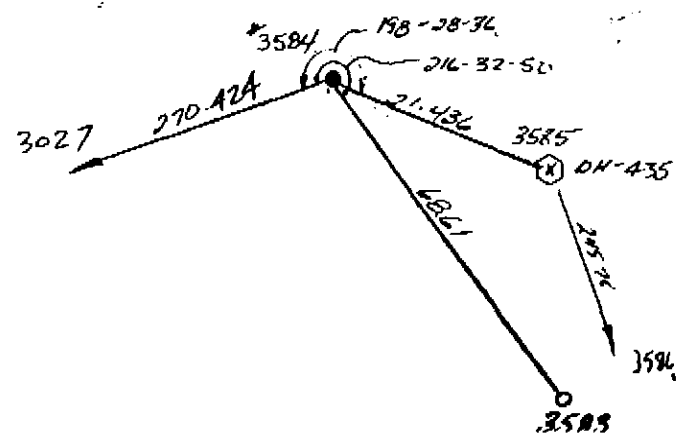
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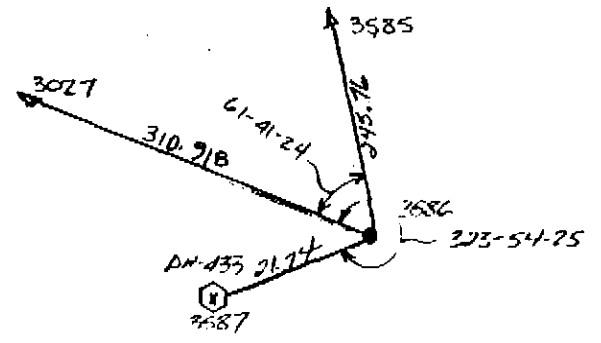
DETAIL - C'
(DH-437)



DETAIL - D'
(DH-435)



DETAIL - E'
(DH-433)

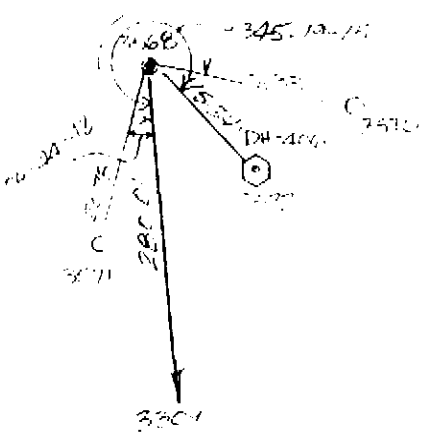


STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
	<u>DH-435</u>							
3025	Old 20cm Spike			729.44	729.5	6,054,590.63	621,712.11	5
		329-48-16	178.276					
3027	Old 20cm Spike			722.39	722.5	6,054,744.71	621,622.45	5
		61-48-20	270.424					
3584	75cm Iron Pin			719.36	719.4	6,054,872.47	621,860.79	5
		80-16-55	21.429					
	Nail & Tag #3585 @ DH-435			718.67	717.8	6,054,876.10	621,881.91	5
		98-21-10	68.587					
	Nail & Tag #3583 (Burnt Stump)			719.86	718.4	6,054,862.51	621,928.64	5
	<u>DH-437</u>							
3027	Old - 20cm Spike			722.39	722.5	6,054,744.71	621,622.45	5
		149-48-16	178.276					
3025	Old - 20cm Spike			729.44	729.5	6,054,590.63	621,712.11	5
		329-48-16	1.299					
3596	Nail on line			729.49	729.5	6,054,591.75	621,711.46	
		356-36-50	296.375					
3597	Nail in Stump			717.26	716.4	6,054,887.61	621,693.96	5
		24-32-01	11.075					
	Nail & Tag #3598 @ DH-437)			715.64	715.5	6,054,897.70	621,698.56	
		330-14-58	12.490					
	Nail & Tag #3599 in 0.50 # Birch			717.52	715.8	6,054,898.45	621,687.76	

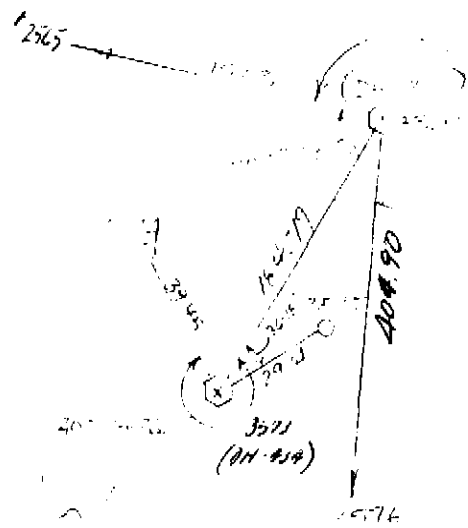
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
	<u>DH-428</u>							
3027	Old - 20cm Spike			722.39	722.5	6,054,744.71	621,622.45	5
		149-48-16	178.276					
3025	Old - 20cm Spike			729.437	729.5	6,054,590.63	621,712.11	5
		255-14-02	356.35					
3590	20cm Spike @ DH-428			735.30	735.4	6,054,499.81	621,367.54	5
		117-42-20	9.923					
	Tag #3591 in 0.90 Ø Cotton			736.99	735.5	6,054,495.19	621,376.32	5
		251-30-44	14.905					
	Tag 3592 in 0.50 Ø Cotton			737.38	735.8	6,054,495.08	621,353.40	5
	<u>DH-430</u>							
3025	Old 20cm Spike			729.44	729.5	6,054,590.63	621,712.11	5
		329-48-16	178.276					
3027	Old 20cm Spike			722.39	722.5	6,054,744.71	621,622.45	5
		216-32-48	156.85					
3589	20cm Spike @ DH-430			725.09	725.1	6,054,618.71	621,529.05	5

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
	<u>DH-432</u>							
3027	Old - 20cm Spike	149-48-16	178.276	722.39	722.5	6,054,744.71	621,622.45	5
3025	Old 20cm Spike	295-28-06	49.319	729.44	729.5	6,054,590.63	621,712.11	5
3594	20cm Spike @ DH-432			728.44	728.4	6,054,611.84	621,667.59	5
	<u>DH-433</u>							
3025	Old - 20cm Spike	329-48-16	178.276	729.44	729.5	6,054,590.63	621,712.11	5
3027	Old - 20cm Spike	111-12-35	310.918	722.39	722.5	6,054,744.71	621,622.45	5
3586	75cm Iron Pin	255-07-00	21.743	726.85	726.9	6,054,632.23	621,912.30	5
	Nail & Tag #3587 @ (DH-433)			728.49	727.7	6,054,626.64	621,891.29	5

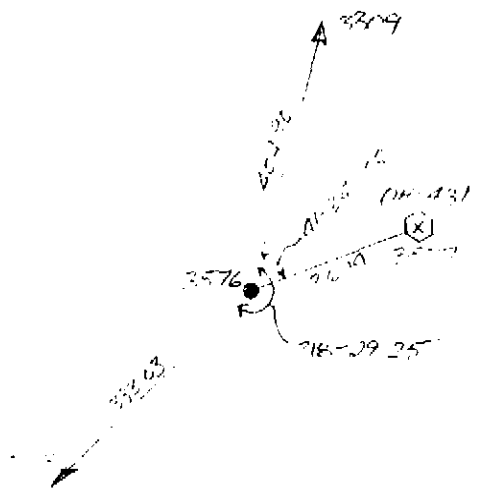
NETP
(DH-486)



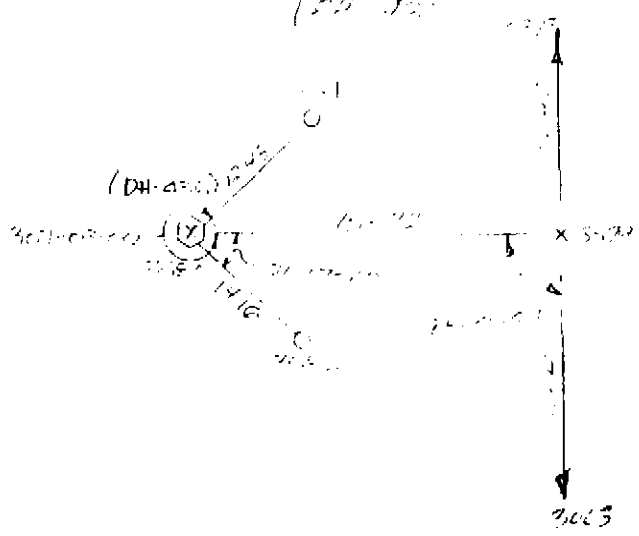
NETP
(DH-484)



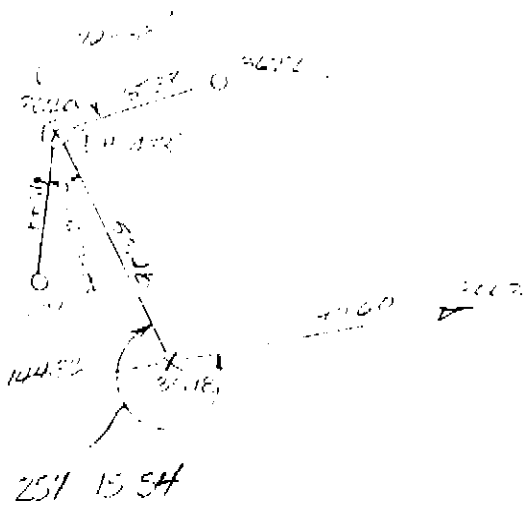
NETP-N (177)
(DH-451)



NETP
(DH-480)



NETP
(DH-480)



PD

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3063	20cm Spike			712.18	712.3	6,055,011.66	621,352.22	
		259-26-03	92.60					
3578	20cm Spike			711.00	711.0	6,054,994.68	621,261.19	
		259-26-03	144.32					
3065	20cm Spike			711.69	711.7	6,054,968.22	621,119.33	
3578	20cm Spike			711.00	711.0	6,054,994.68	621,261.19	
		333-41-57	52.48					
3620	20cm Spike (DH-438)			708.16	708.2	6,055,041.73	621,237.94	
		165-56-57	11.44					
	Nail & Tag #3621 in 0.90 Ø Cottonwood			710.66	709.3	6,055,030.63	621,240.72	
		66-19-57	15.38					
	Nail & Tag #3622 in 0.60 Ø Cottonwood			710.07	708.8	6,055,047.90	621,252.02	

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3063	20cm Spike			712.18	712.3	6,055,011.66	621,352.22	
		358-57-47	265.41					
3579	20cm Spike			699.92	699.9	6,055,277.02	621,347.45	
		358-57-47	156.40					
3323	20cm Spike			691.83	691.8	6,055,433.40	621,344.55	
3579	20cm Spike			699.92	699.9	6,055,277.02	621,347.45	
		267-54-38	158.72					
3580	20cm Spike (DH-436)			694.63	694.8	6,055,271.24	621,188.82	
		34-57-37	12.43					
	Nail & Tag #3581 in 0.30 Ø Birch			697.04	694.8	6,055,281.43	621,195.94	
		109-11-57	14.16					
	Nail & Tag #3582 in 0.80 Ø Cotton			697.77	696.6	6,055,266.59	621,202.20	

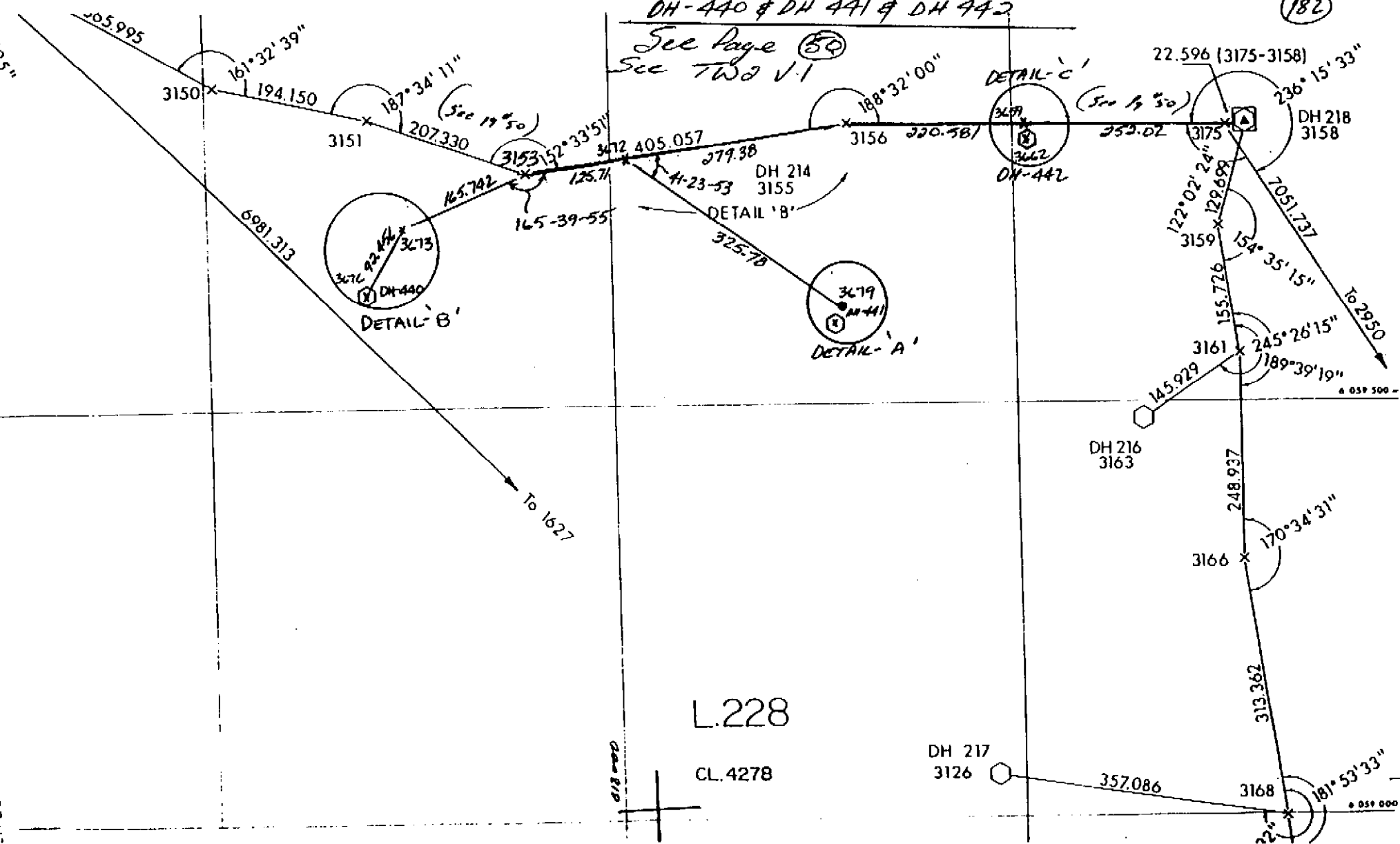
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3309	(DH-357)			686.92	686.8	6,055,645.92	621,641.44	
3573	20cm Spike (DH-434)	210-11-48	184.79	688.88	688.6	6,055,486.21	621,548.50	
	Nail & Tag #3574 in .10 @ Poplar	335-26-58	39.445	690.51	689.1	6,055,522.09	621,532.11	
	Nail & Tag #3575 Burnt Stump	66-29-48	29.14	690.04	688.5	6,055,497.83	621,575.22	
3576	75cm Iron Pin			705.65	705.7	6,055,244.22	621,590.61	
	Nail & Tag #3577 (DH-431)	48-36-48	36.19	702.72	702.7	6,055,268.15	621,617.75	

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
2565	75cm Iron Pin			676.72	676.7	6,055,706.54	621,332.30	
3309	(DH-357)	101-05-43	315.03	686.92	686.8	6,055,645.92	621,641.44	
3576	75cm Iron Pin	187-12-45	404.90	705.65	705.7	6,055,244.22	621,590.61	
3063	20cm Spike	225-42-10	333.03	712.18	712.3	6,055,011.66	621,352.22	
3309	(DH-357)			686.92	686.8	6,055,645.92	621,641.44	
3568	75cm Iron Pin	357-39-59	280.01	673.50	673.5	6,055,925.70	621,630.04	
	Nail & Tag #3572 (DH-406)	162-59-15	15.34	674.84	673.6	6,055,911.03	621,634.53	
	Nail & Tag #3570 in 0.30 Ø Birch	104-29-30	5.33	675.00	673.2	6,055,924.36	621,635.20	
	Nail & Tag #3571 in 0.40 Ø Birch	202-24-42	20.78	674.87	672.3	6,055,906.48	621,622.11	

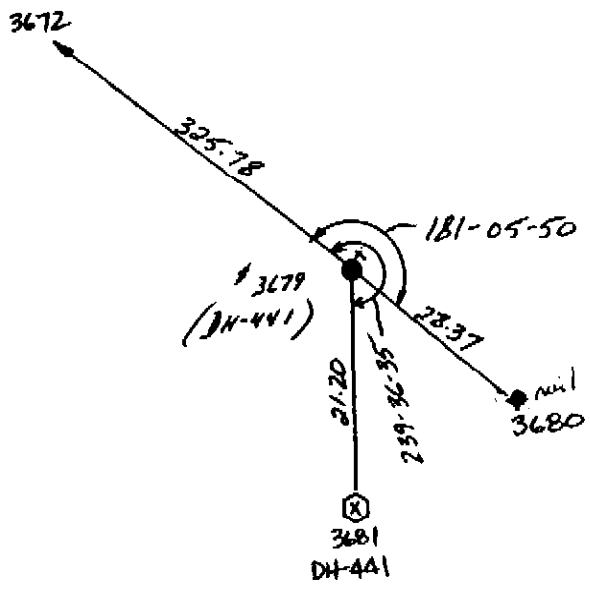
DH-440 & DH 441 & DH 442

See Page 50
See Two V.I

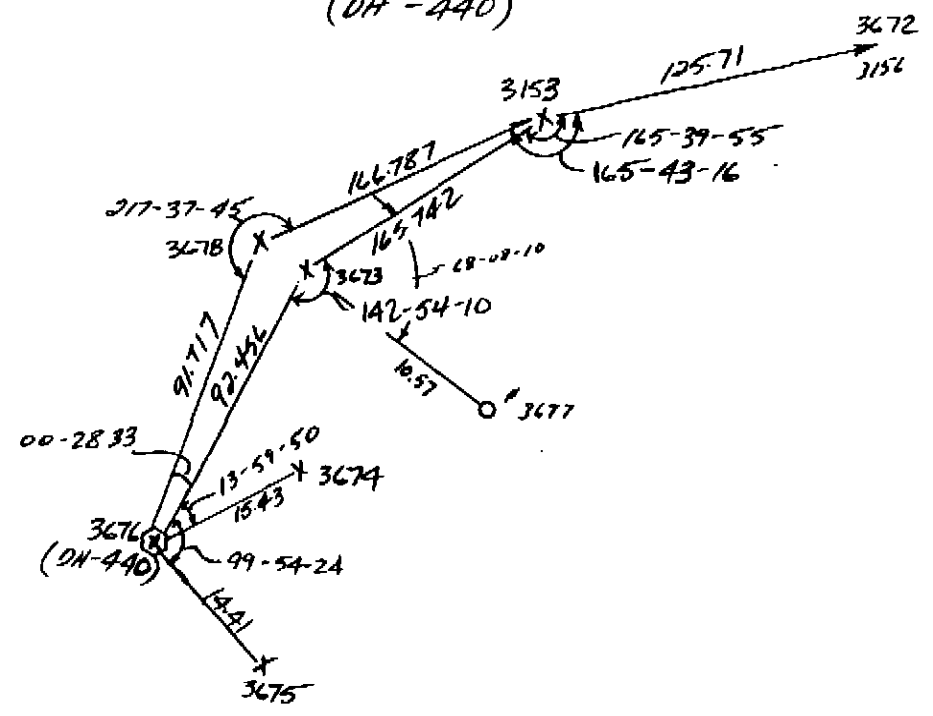
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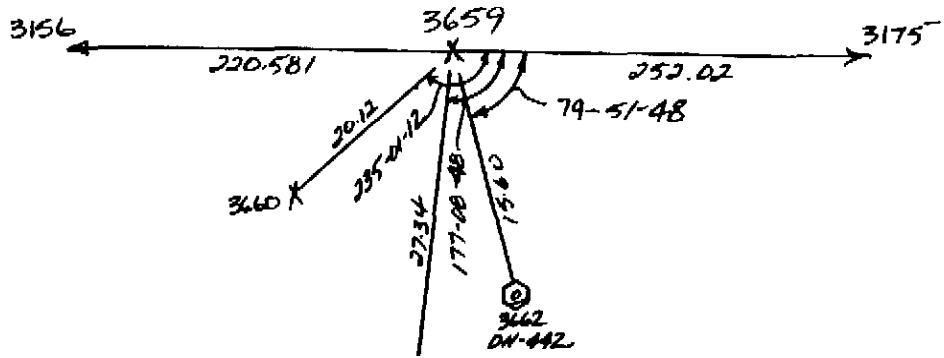
DETAIL - 'A'
(DH-441)



DETAIL - 'B'
(DH-440)



DETAIL - 'C'
(DH-442)



STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3153	Old 20cm Spike			893.84	893.8	6,059,780.72	617,895.75	
		81-49-03	125.71					
3672	20cm Spike			882.63	882.6	6,059,798.61	618,020.18	
		81-49-03	279.38					
3156	Old 20cm Spike			856.78	856.8	6,059,838.37	618,296.69	
3672	20cm Spike			882.63	882.6	6,059,798.61	618,020.18	
		123-12-56	325.78					
3679	20cm Spike			841.47	841.6	6,059,620.15	618,292.74	
		182-49-31	21.20					
	Tag 3681 20cm Spike (DH-441)			839.23	839.4	6,059,598.97	618,291.69	
		124-18-46	28.37					
	Nail & Tag 3680 in 0.40 Ø Willow			839.23	838.1	6,059,604.16	619,316.17	

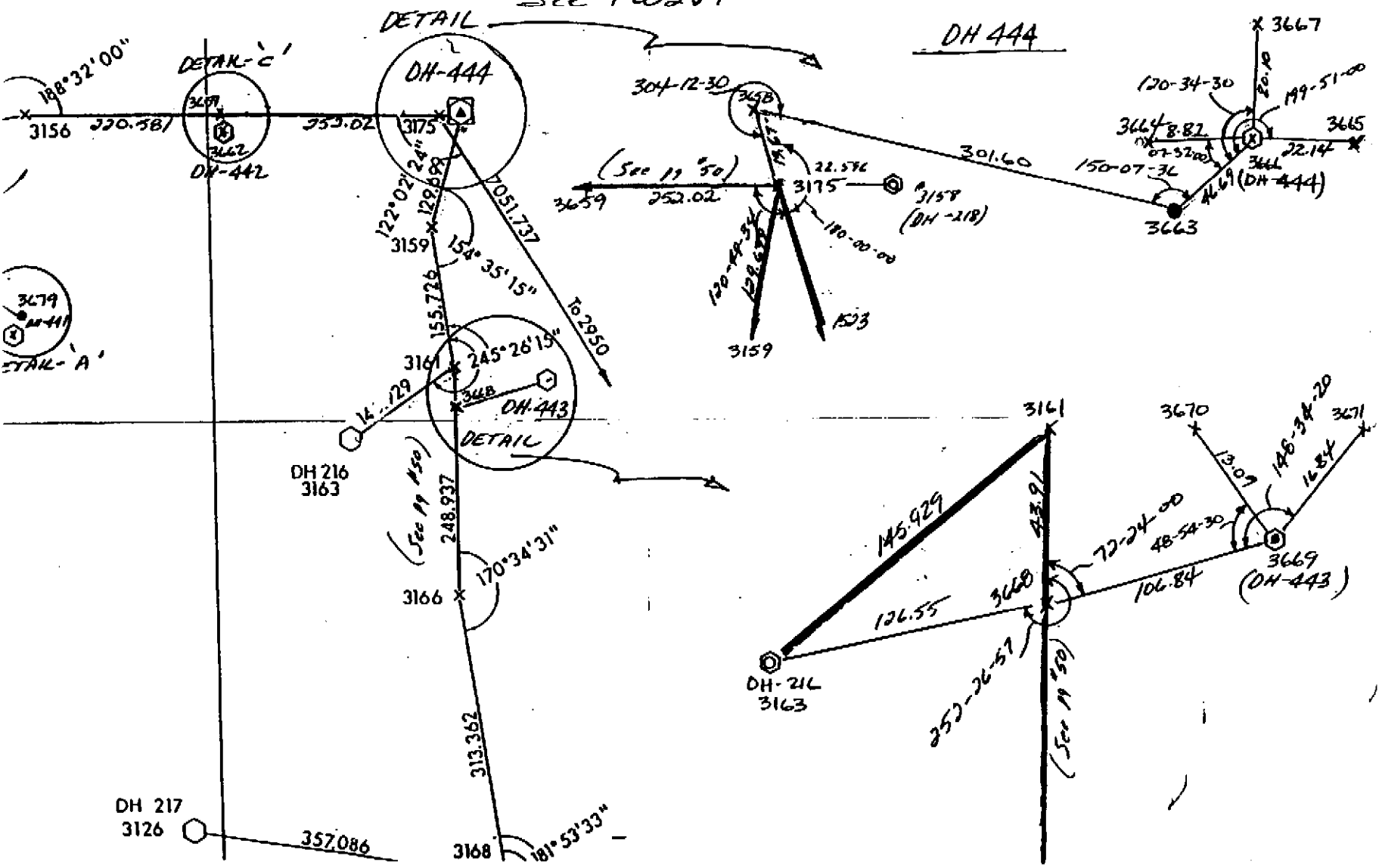
STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3153	Old 20cm Spike			893.84	893.8	6,059,780.72	617,895.75	
		247-28-58	165.742					
3673	20cm Spike			897.22	897.3	6,059,717.24	617,742.65	
		210-23-08	92.456					
3676	20cm Spike (DH-440)			891.10	891.3	6,059,637.49	617,695.88	
		29-54-35	91.717					
3678	20cm Spike			897.29	897.3	6,059,716.99	617,741.61	
		67-32-20	166.787					
3153	20cm Spike			893.84	893.8	6,059,780.72	617,895.75	
3676	20cm Spike (DH-440)			891.10	891.3	6,059,637.49	617,695.88	
		44-22-58	15.430					
	Nail & Tag #3674 in 0.30 Ø Spruce			893.14	891.7	6,059,648.51	617,706.67	
		130-17-32	14.41					
	Nail & Tag #3675 in 0.10 Ø Willow			891.20	889.8	6,059,628.17	617,706.87	
3673	20cm Spike			897.22	897.3	6,059,717.24	617,742.65	
		135-37-08	10.57					
	Nail & tag 3677 in 0.10 Ø Fir			897.59	896.09	6,059,709.69	617,750.04	

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3156	Old 20cm Spike			856.78	856.8	6,059,838.37	618,296.69	
		90-21-06	220.58					
3659	20cm Spike			830.68	830.8	6,059,837.02	618,517.27	
		90-21-06	252.02					
3175	20cm Spike			802.35	802.4	6,059,835.47	618,769.28	
3659	20cm Spike			830.68	830.8	6,059,837.02	618,517.27	
		170-12-54	15.60					
	Nail & Tag #3662 (DH-442)			830.02	830.1	6,059,821.64	618,519.92	
		177-08-48	27.34					
	Nail & Tag #3661 in 0.20 Ø Alder			830.64	829.2	6,059,809.71	618,518.63	
		235-01-12	20.12					
	Nail & Tag #3660 in 0.20 Ø Alder			833.68	832.4	6,059,825.48	618,500.78	

DH-443 & DH 444

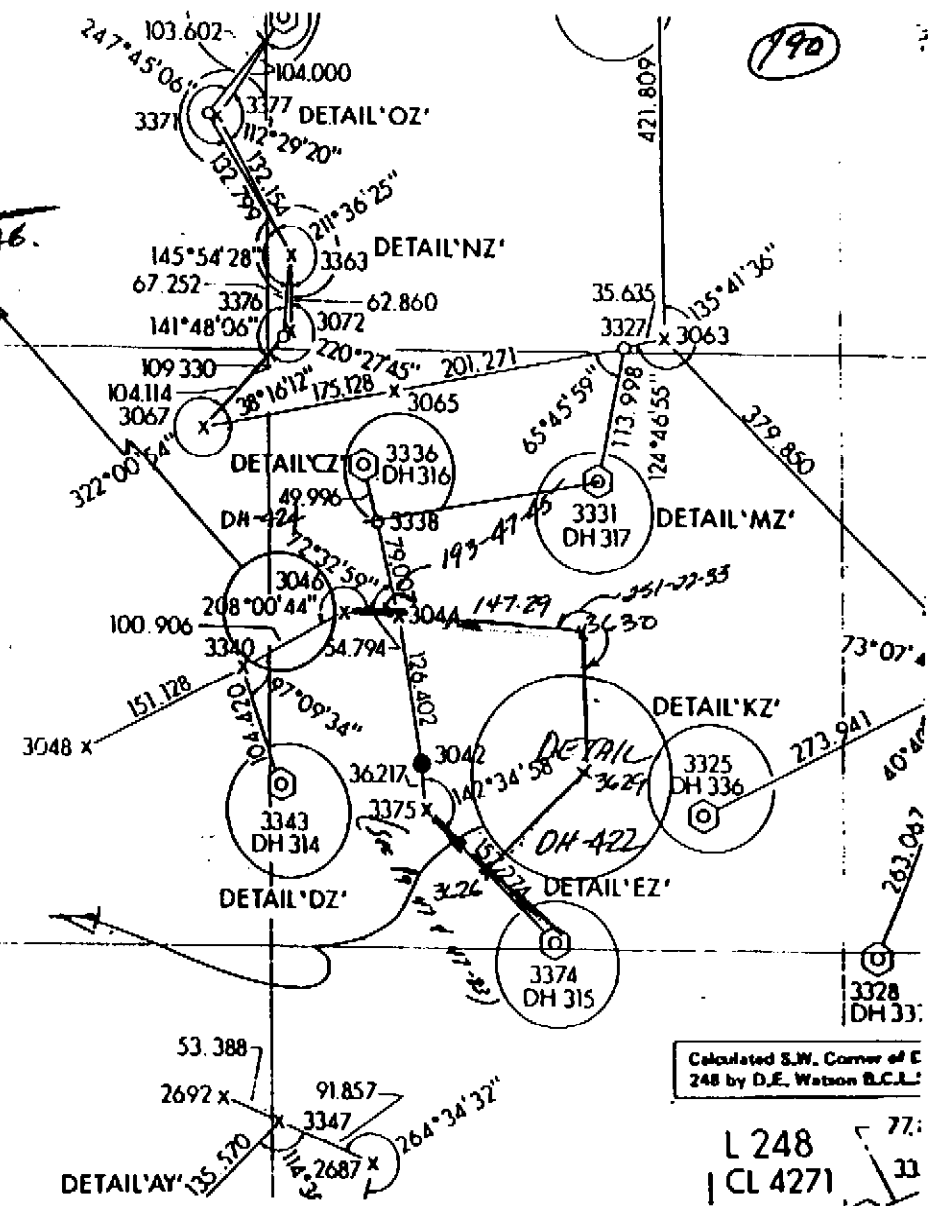
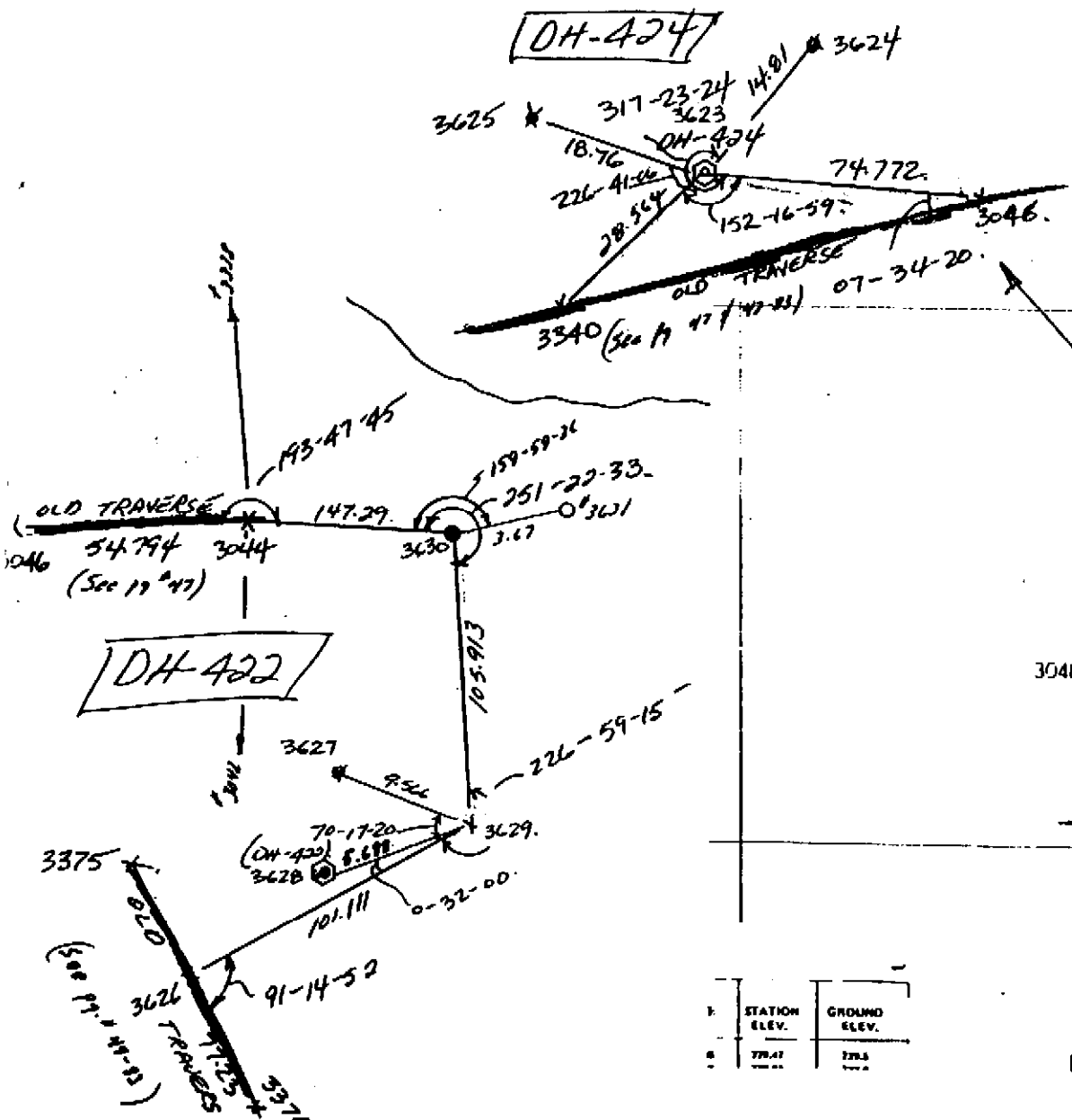
See Page 50
See TW201

DH 444



STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3175	Old 20cm Spike			802.35	802.4	6,059,835.47	618,769.28	
		329-31-13	19.67					
3658	20cm Spike			804.33	804.3	6,059,852.42	618,759.30	
		93-43-47	301.60					
3663	75cm Ion Pin			769.57	769.7	6,059,832.81	619,060.26	
		63-51-19	46.69					
3666	20cm Spike (DH-444)			765.48	765.5	6,059,853.38	619,102.18	
		83-42-19	22.14					
	Nail & Tag 3665 In 0.20 Ø Willow			764.35	762.8	6,059,855.81	619,124.18	
		04-25-49	20.10					
	Nail & Tag 3667 In 0.10 Ø Willow			768.06	766.7	6,059,873.42	610,103.73	
		251-23-19	8.82					
	Nail & Tag 3664 In 0.30 Ø Pine			768.09	766.6	6,059,850.57	619,093.82	

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3161	Old 20cm Spike			780.93	780.9	6,059,557.16	618,778.63	
		180-51-08	43.91					
3668	20cm Spike			776.57	776.7	6,059,513.25	618,777.98	
		253-18-05	126.55					
3163	Nail In Hub (DH-216).			786.19	786.3	6,059,476.90	618,656.75	
3668	20cm Spike			776.57	776.7	6,059,513.25	618,777.98	
		73-15-08	106.84					
3669	C.N. in cement (DH-443)			770.21	770.2	6,059,544.04	618,880.29	
		302-09-38	13.09					
	Nail & Tag 3670 in .10 Ø Willow			772.23	770.6	6,059,551.01	618,869.20	
		41-49-28	16.84					
	Nail & Tag 3671 in 0.20 Ø Willow			771.43	770.1	6,059,556.59	618,891.51	



STATION	GROUND
ELEV.	ELEV.
TRAIL	TRAIL

Calculated S.W. Corner of E 248 by D.E. Watson B.C.L.

L 248
CL 4271

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STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3044	Old 20cm Spike			722.82	722.8	6,054,778.65	621,121.86	
		105-30-02	147.29					
3630	20cm Spike			721.08	721.1	6,054,739.29	621,263.79	
		176-52-34	105.913					
3629	20cm Spike			725.66	725.7	6,054,633.53	621,169.56	
		223-51-50	101.111					
3626	20cm Spike			730.62	730.6	6,054,560.63	621,199.50	
		135-06-42	77.23					
3374	Old 20cm Spike			728.72	728.7	6,054,505.92	621,154.00	
3629	20cm Spike			725.66	725.7	6,054,633.53	621,269.56	
		294-09-10	9.566					
	Nail & Tag 3627 in 0.60cm Ø Birch			727.90	726.2	6,054,637.45	621,260.84	
		224-23-50	5.688					
	Nail & Tag 3628 = (DH 422)			726.00	726.00	6,054,629.47	621,265.58	
3630	2 75cm Iron Pin			721.08	721.1	6,054,739.29	621,263.79	
		179-51-35	3.67					
	Nail & Tag 3631 in 0.10 Ø Willow			722.75	721.2	6,054,626.13	621,264.07	

STATION	DESCRIPTION	BEARING	GRID DISTANCE	STATION ELEVATION	GROUND ELEVATION	NORTHING	EASTING	MAP SHEET
3046	Old 20cm Spike			721.41	721.1	6,054,780.28	621,067.09	
		251-15-30	74.772					
3623	Nail & Tag (DH-424			718.102	718.2	6,054,756.26	620,996.28	
		28-38-54	14.805					
	Nail & Tag 3624 in 0.40 Ø Spruce			719.96	718.7	6,054,769.25	621,003.38	
		297-56-37	18.762					
	Nail & Tag 3625 in 0.30 Ø Spruce			718.47	716.9	6,054,765.05	620,979.71	

TK-Telkwa S-(4)A

TELKWA

1984 QUALITY

INCREMENTAL DATA

CONFIDENTIAL

Appendix 7

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part 5

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 83/12/05

DRILL HOLE# TW83D-353

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBDN	% SULPHUR	CALORIES	F.S.I.
856	RAW WASH	10 10	16.44 16.44	17.29 17.29	87.78	>1.70	1.71	1.10 .90	30.32	14.85 10.88	57.90	4.91 2.39	7019.	
857	RAW WASH	8 8	35.71 35.71	36.86 36.86	90.69	>1.70	2.18	1.09 1.09	29.34	11.89 8.22	61.35	2.25 1.28	7301.	
859	RAW WASH	7 7	64.25 64.25	64.62 64.62	79.30	>1.70	1.48	.92 1.64	31.11	23.43 13.72	53.53	2.20 1.98	7049.	
860	RAW WASH	7 7	66.39 66.39	66.98 66.98	90.17	>1.70	1.83	1.07 1.14	26.89	16.14 12.08	59.89	2.08 1.63	7072.	
861	RAW WASH	7 7	71.49 71.49	72.56 72.56	92.59	>1.70	2.97	1.06 1.31	29.40	11.46 8.15	61.14	2.10 1.55	7520.	
862	RAW WASH	6 6	79.09 79.09	81.91 81.91	86.14	>1.70	3.68	1.14 .99	28.42	14.62 7.97	62.62	.44 .48	7432.	
863	RAW WASH	6 6	82.88 82.88	84.65 84.65	91.07	>1.70	3.96	1.04 1.37	29.38	10.88 7.37	61.88	1.04 .53	7442.	
864	RAW WASH	3 3	101.32 101.32	102.32 102.32	67.68	>1.70	2.28	1.01 1.00	24.69	29.96 16.07	58.24	2.47 1.51	6827.	
865	RAW WASH	3 3	103.32 103.32	103.81 103.81	80.70	>1.70	2.91	1.10 .99	25.25	21.72 16.33	57.43	.99 1.01	6699.	
866	RAW WASH	2 2	105.72 105.72	110.07 110.07	89.20	>1.70	5.10	1.36 .98	27.21	13.11 11.45	60.36	.43 .43	7043.	

~~CONFIDENTIAL~~

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/01/26

DRILL HOLE# TW83D-356

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
921	RAW	1	102.48	103.63				2.30	.79	45.85		.56		
	WASH	1	102.48	103.63	41.27	>1.70		.79	26.06	24.89	48.26	.47	62.	
922	RAW	1	105.84	108.28				2.89	.73	33.73		.67		
	WASH	1	105.84	108.28	63.56	>1.70		1.15	27.33	17.70	53.82	.69	6759.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/01/26

DRILL HOLE# TW83D-357

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
916	RAW	1	69.04	70.28			7.44	.94		59.17		1.03		
	WASH	1	69.04	70.28	27.96	>1.70		1.58	25.36	20.14	52.92	.64	6512.	
917	RAW	1	81.76	82.82			3.59	.50		30.48		2.05		
	WASH	1	81.76	82.82	65.51	>1.70		1.10	25.35	15.32	58.23	.77	6966.	
918	RAW	1	83.92	84.44			3.69	.76		14.93		.88		
	WASH	1	83.92	84.44	94.49	>1.70		1.00	28.09	11.77	59.14	.86	7307.	
919	RAW	1	85.58	89.64			3.39	.77	.77	36.38		.24		
	WASH	1	85.58	89.64	61.87	>1.70		1.81	24.11	19.10	54.98	.30	6554.	
920	RAW	1	91.57	92.10			3.23	.69		47.32		.42		
	WASH	1	91.57	92.10	60.08	>1.70		1.26	21.40	31.02	46.32	.60	5598.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/01/26

DRILL HOLE# TW83D-359

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
923	RAW	Q	16.78	24.95				7.65	1.17	36.24		3.41		
	WASH	Q	16.78	24.95	54.26	>1.70		1.50	27.79	12.51	58.20	1.99	7131.	
924	RAW	Q	27.22	29.79				5.16	.79	28.94		.79		
	WASH	Q	27.22	29.79	71.76	>1.70		1.91	27.46	10.70	59.93	.72	7276.	
925	RAW	Q	30.00	31.77				6.10	.96	28.51		1.51		
	WASH	Q	30.00	31.77	77.13	>1.70		1.28	26.78	12.92	59.02	.66	7046.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/01/26

DRILL HOLE# TW83D-361

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
939	RAW	1	56.43	57.43				4.76	.51	14.95		1.01		
	WASH	1	56.43	57.43	93.78	>1.70		.87	27.39	12.08	59.66	.79	7301.	
940	RAW	1	67.10	68.02				5.31	.72	41.01		.33		
	WASH	1	67.10	68.02	57.28	>1.70		1.26	24.53	19.98	54.23	.30	6443.	
941	RAW	1	69.05	69.35				3.24	.57	21.34		2.65		
	WASH	1	69.05	69.35	77.65	>1.70		.81	31.14	13.47	54.58	1.27	7186.	
942	RAW	1	71.17	72.20				5.37	.56	14.95		1.49		
	WASH	1	71.17	72.20	93.40	>1.70		.94	27.49	11.69	59.88	.59	7311.	
943	RAW	1	90.55	91.17				4.35	.64	37.12		.27		
	WASH	1	90.55	91.17	70.90	>1.70		1.74	22.64	26.55	49.07	.24	5824.	
944	RAW	1	72.40	75.17				4.82	.70	32.52		.26		
	WASH	1	72.40	75.17	73.74	>1.70		1.27	24.84	21.55	52.34	.30	6332.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/01/26

DRILL HOLE# TW83D-362

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
957	RAW	10	106.94	108.42				4.05	.81		32.73		1.86	
	WASH	10	106.94	108.42	66.03	>1.70		1.80	29.31	14.31	54.58	1.54	6916.	
958	RAW	8	126.06	128.71				6.05	.86		12.75		2.62	
	WASH	8	126.06	128.71	93.23	>1.70		1.69	29.46	9.32	59.53	1.87	7343.	
959	RAW	7	149.29	150.49				4.96	.78		21.04		2.49	
	WASH	7	149.29	150.49	79.65	>1.70		1.25	32.27	6.96	59.52	1.69	7617.	
960	RAW	6	158.28	158.66				4.60	.80		8.38		2.08	
	WASH	6	158.28	158.66	97.35	>1.70		2.06	29.96	7.09	60.89	1.60	7582.	
961	RAW	6	158.88	159.28				4.19	.90		27.39		1.57	
	WASH	6	158.88	159.28	68.41	>1.70		1.86	28.94	8.83	60.37	1.00	7419.	
962	RAW	6	159.38	160.67				5.82	.92		16.34		1.72	
	WASH	6	159.38	160.67	92.05	>1.70		2.87	25.70	12.47	58.96	.51	6972.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/01/26

DRILL HOLE# TW83D-363

SAMPLE #	TYPE	SEAM	TDP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
945	RAW WASH	10 10	16.20 16.20	16.97 16.97	92.80	>1.70	6.23	.66 1.53	33.75	10.80 6.52	58.20	2.19 1.83	7661.	
946	RAW WASH	Q Q	24.80 24.80	25.32 25.32	22.34	>1.70	8.24	.61 1.54	25.70	64.13 23.54	49.22	2.68 3.24	6074.	
947	RAW WASH	Q Q	56.50 56.50	59.24 59.24	46.97	>1.70	7.06	.60 1.69	24.14	45.54 21.61	52.56	.97 1.26	6298.	
948	RAW WASH	Q Q	67.47 67.47	69.58 69.58	93.72	>1.70	6.85	.74 1.65	25.28	20.60 17.40	55.67	1.77 1.60	6675.	
949	RAW WASH	Q Q	80.84 80.84	82.68 82.68	92.84	>1.70	9.42	1.17 2.67	27.76	20.91 16.47	53.10	1.47 1.26	6750.	
950	RAW WASH	Q Q	90.40 90.40	96.20 96.20	81.62	>1.70	5.11	1.76 2.28	28.07	18.12 7.18	62.51	.79 .58	7532.	
951	RAW WASH	Q Q	99.85 99.85	101.66 101.66	93.48	>1.70	3.89	1.01 1.61	27.81	10.53 7.67	62.91	.43 .44	7469.	
952	RAW WASH	2 2	118.90 118.90	120.20 120.20	39.96	>1.70	8.51	1.17 2.97	25.12	56.27 15.69	56.22	.41 .52	6804.	
953	RAW WASH	2 2	121.78 121.78	123.77 123.77	7.86	>1.70	10.82	1.97 1.67	22.48	73.84 32.20	43.65	.27 .64	5371.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/01/26

DRILL HOLE# TW83D-366

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
954	RAW	Q	112.10	113.07				2.84	.74	17.71		2.39		
	WASH	Q	112.10	113.07	87.70	>1.70		1.01	27.74	12.31	58.94	1.14	7298.	
955	RAW	Q	117.28	118.30				2.37	.83	44.87		.50		
	WASH	Q	117.28	118.30	45.97	>1.70		1.25	23.65	26.45	48.65	.51	5934.	
956	RAW	Q	128.08	129.08				3.22	.95	46.22		.16		
	WASH	Q	128.08	129.08	47.83	>1.70		1.18	22.49	25.12	51.21	.22	6047.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/01/26

DRILL HOLE# TW83D-368

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
968	RAW	1	74.03	75.13				2.78	.82		25.15		2.23	
	WASH	1	74.03	75.13	81.80	>1.70		.78	28.49	15.94	54.79	1.35	6989.	
969	RAW	1	81.17	81.51				2.74	.90		47.91		.25	
	WASH	1	81.17	81.51	44.43	>1.70		.80	22.67	28.87	47.66	.31	5791.	
970	RAW	1	91.19	91.70				5.99	.85		53.73		.81	
	WASH	1	91.19	91.70	31.89	>1.70		.83	25.25	27.22	46.70	.50	5989.	
971	RAW	1	94.30	97.75				3.07	.93		40.87		.51	
	WASH	1	94.30	97.75	59.29	>1.70		.92	25.47	22.44	51.17	.71	6311.	
972	RAW	Q	112.38	113.04				7.25	.87		53.33		.13	
	WASH	Q	112.38	113.04	35.19	>1.70		1.49	20.90	30.51	47.10	.19	5509.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/01/26

DRILL HOLE# TW83D-369

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
963	RAW	1	38.42	39.54				3.16	.95	19.65		1.23		
	WASH	1	38.42	39.54	92.77	>1.70		1.00	27.93	17.57	53.50	1.13	6982.	
964	RAW	1	44.85	45.26				3.99	.90	31.46		.39		
	WASH	1	44.85	45.26	76.25	>1.70		1.24	25.86	19.40	53.50	.40	6567.	
965	RAW	1	46.38	49.05				4.22	.86	27.51		.59		
	WASH	1	46.38	49.05	84.75	>1.70		1.57	25.06	21.44	50.93	.58	6325.	
966	RAW	1	51.10	51.60				2.80	.92	33.57		3.07		
	WASH	1	51.10	51.60	63.25	>1.70		.80	28.28	20.03	50.89	1.29	6648.	
967	RAW	Q	60.84	61.35				3.63	1.08	45.66		.17		
	WASH	Q	60.84	61.35	51.12	>1.70		1.37	23.43	26.57	49.63	.22	5880.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/06/13

DRILL HOLE# TW84D-402

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRORYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1010	RAW	2L	113.40	113.80				8.56	1.10	41.62		.97		
	WASH	2L	113.40	113.80	41.22	>1.70		2.31	24.64	22.14	50.91	.93	6086.	
1011	RAW	2L	116.95	118.05				5.20	1.12	33.85		2.14		
	WASH	2L	116.95	118.05	72.00	>1.70		1.96	25.29	21.03	51.72	1.66	6353.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/06/13

DRILL HOLE# TW84D-403

SAMPLE #	TYPE	SEAM	TDP	BDTDM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1012	RAW	7	12.32	13.35	60.00		4.08	1.24		12.19		4.92		
	WASH	7	12.32	13.35	90.09	>1.70		2.82	29.99	9.19	58.00	2.87	7288.	
1013	RAW	6	36.06	39.37	88.00		4.97	2.17		14.68		.92		
	WASH	6	36.06	39.37	86.44	>1.70		2.07	30.00	9.16	58.77	.57	7343.	
1014	RAW	2	68.74	70.24	60.00		4.60	2.21		16.28		1.17		
	WASH	2	68.74	70.24	62.29	>1.70		2.46	28.50	11.72	57.32	.88	7176.	
1015	RAW	2L	85.70	85.93	100.00		4.84	.96		8.34		2.24		
	WASH	2L	85.70	85.93	95.94	>1.70		1.92	31.19	7.28	59.61	2.30	7576.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/06/13

DRILL HOLE# TW84D-404

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1000	RAW	1U	19.50	20.95			10.05	2.69		35.63		.65		
	WASH	1U	19.50	20.95	58.16	>1.70		3.15	26.76	12.27	57.82	.86	6956.	
1001	RAW	1	21.20	24.20			5.79	2.88		31.97		.58		
	WASH	1	21.20	24.20	69.77	>1.70		2.70	25.70	14.85	56.75	.56	6785.	1.50
1002	RAW	1L	26.80	27.65	33.00		4.51	1.17		43.80		.65		
	WASH	1L	26.80	27.65	63.09	>1.70		1.44	23.15	22.68	52.73	.47	6293.	
1003	RAW	1L	37.48	38.36	100.00		3.19	1.67		48.28		.32		
	WASH	1L	37.48	38.36	49.90	>1.70		3.52	22.22	28.54	45.72	.28	5551.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/06/31

ORILL HOLE# TW84D-405

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1016	RAW	10	60.64	61.12	100.00		2.61	1.02		17.63		2.45		
	WASH	10	60.64	61.12	88.36	>1.70		1.54	30.83	13.06	54.57	2.45	7027.	
1017	RAW	8	79.81	80.08	81.00		3.65	1.32		24.68		.78		
	WASH	8	79.81	80.08	75.76	>1.70		2.45	30.24	8.09	59.22	.54	7385.	
1018	RAW	7U	85.42	85.94	100.00		2.99	1.00		9.22		2.67		
	WASH	7U	85.42	85.94	95.34	>1.70		1.98	31.13	7.50	59.39	2.31	7554.	
1019	RAW	7	95.64	96.40	50.00		6.05	1.17		10.97		.63		
	WASH	7	95.64	96.40	91.16	>1.70		2.38	30.03	7.42	60.17	.57	7477.	
1020	RAW	6U	107.16	109.88			4.93	1.74		16.34		1.71		
	WASH	6U	107.16	109.88	92.64	>1.70		3.36	27.39	12.02	57.23	1.11	6997.	
1021	RAW	6	117.24	119.00	85.00		3.30	1.40		29.76		5.40		
	WASH	6	117.24	119.00	70.75	>1.70		2.21	29.12	17.09	51.58	2.50	6515.	
1022	RAW	6	119.88	121.61	88.00		3.87	1.73		32.63		1.94		
	WASH	6	119.88	121.61	68.68	>1.70		3.25	27.61	14.96	54.18	.77	6731.	
1023	RAW	6	122.00	122.48	82.00		5.97	1.09		26.51		2.63		
	WASH	6	122.00	122.48	82.27	>1.70		2.18	26.58	20.10	51.14	.59	6346.	
1024	RAW	6	123.68	123.96	100.00		3.71	.87		19.16		1.42		
	WASH	6	123.68	123.96	86.29	>1.70		1.83	31.16	15.12	51.89	1.33	6685.	
1030	RAW	5U	143.65	144.29	50.00		4.20	1.07		21.39		.83		
	WASH	5U	143.65	144.29	81.84	>1.70		2.28	26.83	14.43	56.46	.92	6897.	
1031	RAW	5	155.44	158.36	100.00		3.52	1.40		22.81		1.87		
	WASH	5	155.44	158.36	79.54	>1.70		3.89	25.46	11.30	59.35	1.23	7038.	
1032	RAW	4	160.60	170.60	80.00		3.41	1.32		20.40		3.65		
	WASH	4	160.60	170.60	81.03	>1.70		3.96	27.78	11.95	56.31	1.44	7073.	
1033	RAW	4L	173.84	174.12	100.00		3.85	1.19		38.55		.37		
	WASH	4L	173.84	174.12	58.90	>1.70		2.17	25.30	17.50	55.03	.43	6631.	
1034	RAW	3U	186.60	186.88	85.00		1.80	1.03		46.12		3.36		
	WASH	3U	186.60	186.88	48.27	>1.70		1.32	24.95	27.38	46.35	2.55	5917.	
1035	RAW	3U	187.72	188.32	57.00		1.73	.84		29.99		2.50		

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/10

DRILL HOLE# TW84D-405

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1035	WASH	3U	187.72	188.32	47.33	>1.70		1.96	27.65	16.78	53.61	.55	6711.	
1036	RAW	3U	191.08	191.48	100.00		1.51	.93		41.63		2.15		
	WASH	3U	191.08	191.48	45.03	>1.70		1.56	28.78	21.83	47.83	2.03	6309.	
1037	RAW	3	192.50	193.56	100.00		2.16	.99		22.56		.97		
	WASH	3	192.50	193.56	79.86	>1.70		2.18	30.20	13.36	54.26	.80	7041.	
1038	RAW	2	195.44	197.88	74.00		3.41	1.00		27.44		1.50		
	WASH	2	195.44	197.88	71.02	>1.70		3.47	27.41	10.02	59.10	.63	7231.	
1039	RAW	2L	198.34	198.56	100.00		2.43	1.01		33.81		1.65		
	WASH	2L	198.34	198.56	71.70	>1.70		2.00	24.53	19.67	53.80	1.28	6488.	
1040	RAW	2L	198.80	199.76	100.00		3.16	.97		28.48		.42		
	WASH	2L	198.80	199.76	78.96	>1.70		2.86	23.96	18.10	55.08	.41	6517.	
1041	RAW	2L	200.10	200.42	100.00		2.42	1.30		42.34		.61		
	WASH	2L	200.10	200.42	55.26	>1.70		2.21	22.66	25.62	49.51	.62	5808.	
1042	RAW	2L	200.68	200.86	100.00		2.38	1.12		41.36		.43		
	WASH	2L	200.68	200.86	52.83	>1.70		1.92	24.90	26.20	46.98	.55	5899.	
1043	RAW	2L	202.24	202.86	100.00		2.78	.98		19.18		1.07		
	WASH	2L	202.24	202.86	91.40	>1.70		3.15	24.97	14.80	57.08	1.03	6838.	
1044	RAW	2L	206.52	207.26	82.00		4.97	1.14		11.20		.59		
	WASH	2L	206.52	207.26	96.87	>1.70		2.00	28.22	9.30	60.48	.53	7443.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/06/31

DRILL HOLE# TW840-406

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1025	RAW	1	21.70	22.91	70.00			3.89	1.23	26.67		1.58		
	WASH	1	21.70	22.91	78.28	>1.70		1.88	26.37	18.51	53.24	.86	6612.	
1026	RAW	1	24.48	26.52	55.00			4.26	1.25	23.40		.80		
	WASH	1	24.48	26.52	81.14	>1.70		2.16	26.39	13.93	57.52	.64	6942.	2.50
1027	RAW	1	26.72	26.88	100.00			3.39	.94	34.23		.50		
	WASH	1	26.72	26.88	67.44	>1.70		1.70	27.56	26.32	44.42	.49	5477.	
1028	RAW	1L	30.28	31.48	83.00			4.48	1.30	30.53		.50		
	WASH	1L	30.28	31.48	68.10	>1.70		1.85	24.99	15.83	57.33	.48	6798.	
1029	RAW	1L	31.76	31.90	43.00			7.94	1.10	44.21		1.48		
	WASH	1L	31.76	31.90	52.09	>1.70		1.65	24.55	19.95	53.85	1.33	6489.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/06/31

DRILL HOLE# TW84D-407

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1053	RAW	3	122.06	124.56	69.00			4.79	1.24	49.61		.46		
	WASH	3	122.06	124.56	45.25	>1.70		2.41	25.16	23.10	49.33	.47	6090.	
1054	RAW	2	125.28	127.40	82.00			5.30	1.37	30.87		.56		
	WASH	2	125.28	127.40	76.17	>1.70		4.15	27.41	15.96	52.48	.59	6587.	
1055	RAW	2L	128.72	129.36	89.00			4.45	1.58	35.40		.71		
	WASH	2L	128.72	129.36	55.95	>1.70		2.62	26.73	17.60	53.05	.59	6551.	
1056		2L	129.97	130.42										.00
	RAW	2L	129.97	130.42	77.00			2.58	1.24	28.53		.67		
	WASH	2L	129.97	130.42	81.70	>1.70		2.03	26.69	19.52	51.76	.57	6400.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/06/31

DRILL HOLE# TW84D-408

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLDSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1045	RAW	1U	74.04	74.52	83.00		1.51	.86		26.06		3.53		
	WASH	1U	74.04	74.52	85.29	>1.70		1.87	26.21	19.79	52.13	2.31	6467.	
1046	RAW	1U	74.98	75.52	100.00		2.22	.86		16.41		1.30		
	WASH	1U	74.98	75.52	91.03	>1.70		2.45	27.89	11.79	57.87	.58	7260.	
1047	RAW	1	84.09	85.48	65.00		2.62	.98		48.65		.72		
	WASH	1	84.09	85.48	37.45	>1.70		2.09	25.68	19.97	52.26	.72	6493.	
1048	RAW	1	86.54	86.95	100.00		1.63	.85		22.30		.60		
	WASH	1	86.54	86.95	85.67	>1.70		1.46	28.89	16.92	52.73	.69	6785.	
1049	RAW	1	87.71	89.58	75.00		2.66	1.03		34.75		.83		
	WASH	1	87.71	89.58	66.32	>1.70		1.86	25.64	20.96	51.54	.47	6376.	3.00
1050	RAW	1	89.84	90.41	100.00		2.98	.97		21.29		.40		
	WASH	1	89.84	90.41	78.87	>1.70		1.94	27.51	11.08	59.47	.42	7239.	
1051	RAW	1L	93.40	94.25	100.00		2.68	1.03		39.44		.94		
	WASH	1L	93.40	94.25	58.04	>1.70		2.64	23.73	18.76	54.87	.62	6531.	
1052	RAW	1L	101.68	102.62			2.55	.96		42.52		.15		
	WASH	1L	101.68	102.62	56.86	>1.70		2.06	22.45	25.14	50.35	.19	5968.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TW84D-409

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRY	LDSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1057	RAW	7	35.12	36.22	100.00				2.51	1.37					
	WASH	7	35.12	36.22	81.82	>1.70				2.03	30.79	12.38	54.80	1.78	7039.
1058	RAW	6	42.15	44.62	80.00				3.92	1.50					
	WASH	6	42.15	44.62	92.13	>1.70				2.26	31.48	7.36	58.90	.77	7475.
1059	RAW	5	51.92	53.88	84.00				2.60	1.23					
	WASH	5	51.92	53.88	91.17	>1.70				2.68	29.72	6.79	60.81	.44	7458.
1060	RAW	4	54.26	55.50	69.00				2.48	1.09					
	WASH	4	54.26	55.50	87.97	>1.70				2.31	30.07	6.96	60.68	1.78	7534.

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TW84C-410

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALDRIES	F.S.I.
1061	RAW	1U	35.36	35.83	100.00			2.06	1.25	60.45		2.17		
	WASH	1U	35.36	35.83	19.40	>1.70		1.31	24.25	30.38	44.06	.81	5661.	
1062	RAW	1U	36.76	37.28	89.00			1.79	1.13	15.21		.55		
	WASH	1U	36.76	37.28	93.25	>1.70		1.25	28.01	12.54	58.20	.53	7236.	
1063	RAW	1	41.04	44.24	78.00			2.19	1.19	32.21		.41		
	WASH	1	41.04	44.24	72.93	>1.70		1.60	24.67	21.37	52.36	.48	6383.	3.00
1064	RAW	1	46.06	46.76	100.00			2.26	1.03	26.15		1.14		
	WASH	1	46.06	46.76	79.18	1.70		1.86	23.96	18.00	56.18	.75	6701.	
1065	RAW	1L	54.40	55.02	90.00			2.22	1.17	44.43		.15		
	WASH	1L	54.40	55.02	48.97	>1.70		1.79	23.52	22.09	52.60	.29	6267.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/21

DRILL HOLE# TW84C-411

SAMPLE #	TYPE	SEAM	TDP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1103	RAW	7	20.80	22.20	79.00			1.89	1.14	16.48		1.80		
	WASH	7	20.80	22.20	88.48	>1.70		2.55	29.00	8.70	59.75	1.47	7261.	
1104	RAW	6	27.64	29.90	93.00			2.78	1.39	10.44		.58		
	WASH	6	27.64	29.90	94.37	>1.70		3.64	28.49	6.77	61.10	.52	7283.	
1105	RAW	3	37.85	38.87	29.00			1.88	1.07	20.70		.57		
	WASH	3	37.65	38.67	79.70	>1.70		2.00	29.64	9.09	59.27	.54	7263.	
1106	RAW	3	39.42	39.58	100.00			1.16	.78	39.33		3.59		
	WASH	3	39.42	39.58	57.87	>1.70		1.12	24.87	26.51	47.50	2.87	5851.	
1107	RAW	3L	41.56	42.17	90.00			1.29	.82	8.69		2.63		
	WASH	3L	41.56	42.17	94.76	>1.70		1.99	30.12	6.42	61.47	1.82	7535.	
1108	RAW	2U	47.67	48.30	71.00			1.55	.85	26.27		1.91		
	WASH	2U	47.67	48.30	97.16	>1.70		2.14	25.62	13.91	58.33	.95	6843.	
1109	RAW	2U	49.70	49.87	88.00			1.04	.60	43.79		.62		
	WASH	2U	49.70	49.87	37.87	>1.70		1.87	25.76	18.59	53.78	.80	6521.	
1110	RAW	2	51.46	52.56	91.00			1.75	.91	19.19		.81		
	WASH	2	51.46	52.56	86.08	>1.70		2.25	27.36	11.05	59.34	.88	7083.	
1111	RAW	2	52.79	52.90	82.00			1.54	.98	33.08		.53		
	WASH	2	52.79	52.90	53.03	>1.70		1.72	28.37	6.11	63.80	.59	7588.	
1112	RAW	2L	57.70	58.10	20.00			1.23	.98	42.69		1.89		
	WASH	2L	57.70	58.10	61.46	>1.70		2.49	28.19	23.36	45.96	1.78	6028.	
1113	RAW	2L	59.50	59.95	24.00			1.33	.81	51.54		.31		
	WASH	2L	59.50	59.95	46.05	>1.70		2.20	22.40	22.46	52.94	.44	6116.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TW84D-412

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRORYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1077	RAW	1	7.54	9.13	40.00		2.24	1.22		23.70		1.06		
	WASH	1	7.54	9.13	75.50	>1.70		1.74	27.58	13.15	57.53	.92	7130.	4.50
1078	RAW	1	11.12	12.10	100.00		2.93	1.17		26.95		.75		
	WASH	1	11.12	12.10	77.04	>1.70		1.97	24.39	18.50	55.14	.79	6636.	
1079	RAW	1L	21.91	22.88	80.00		2.13	1.67		52.70		.16		
	WASH	1L	21.91	22.88	38.12	>1.70		1.94	22.09	27.25	48.72	.27	5813.	1.50

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TW84D-413

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1114	RAW	3	2.30	3.00	50.00		2.65	1.77		3.88		.86		
	WASH	3	2.30	3.00	97.72	>1.70		2.50	29.60	3.62	64.28	.80	7765.	
1115	RAW	2	18.24	19.80	100.00		2.24	1.83		16.29		.50		
	WASH	2	18.24	19.80	78.32	>1.70		2.25	27.89	6.19	63.67	.45	7555.	
1116	RAW	2L	23.11	23.80	100.00		1.52	1.17		29.87		2.95		
	WASH	2L	23.11	23.80	54.27	>1.70		1.81	27.07	17.58	53.54	2.72	6594.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TW84D-414

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1100	RAW	1	55.46	56.90	45.00		2.03	1.33		36.86		.28		
	WASH	1	55.46	56.90	57.53	>1.70		2.16	24.77	20.04	53.03	.37	6471.	3.00
1101	RAW	1	58.44	59.44	100.00		2.09	1.50		34.37		.28		
	WASH	1	58.44	59.44	61.81	>1.70		3.39	23.52	17.84	55.25	.38	6648.	
1102	RAW	1	59.78	59.95	100.00		1.86	1.08		47.93		.59		
	WASH	1	59.78	59.95	50.11	>1.70		1.64	23.58	24.40	50.38	.64	6247.	

TELKWA COAL SAMPLES
-----LORING LAB
DATE ANALYSED 84/08/29DRILL HOLE# TW84D-415

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1091	RAW	2	13.76	15.63	88.00		1.95	1.58		20.67		.55		
	WASH	2	13.76	15.63	82.83	>1.70		3.57	26.01	14.22	56.20	.46	6878.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/21

DRILL HOLE# TW84D-416

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALDRIES	F.S.I.
1117	RAW	1	45.78	49.00	26.00			2.63	1.09	44.06		.89		
	WASH	1	45.78	49.00	47.44	>1.70		2.37	26.72	13.40	57.51	.53	6875.	2.50
1118	RAW	1	50.60	51.40	100.00			3.46	1.06	29.12		.48		
	WASH	1	50.60	51.40	75.15	>1.70		3.64	25.42	16.04	54.90	.38	6665.	
1119	RAW	1L	60.94	61.80	70.00			3.11	1.03	55.40		.30		
	WASH	1L	60.94	61.80	33.71	>1.70		2.52	23.57	25.49	48.42	.28	5916.	
1120	RAW	1L	70.60	70.80	100.00			3.73	1.00	44.83		.15		
	WASH	1L	70.60	70.80	49.37	>1.70		1.73	23.76	27.83	46.68	.21	5777.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/21

DRILL HOLE# TW84D-417

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1092	RAW	6	13.80	15.92	61.00			2.00	1.00	17.03		.40		
	WASH	6	13.80	15.92	15.92	>1.70		3.30	29.19	11.89	55.62	.42	6943.	
1093	RAW	6	19.11	21.48	76.00			2.00	1.13	11.18		1.02		
	WASH	6	19.11	21.48	90.03	>1.70		3.42	29.77	5.90	60.91	.68	7534.	
1094	RAW	3	34.92	35.32	83.00			1.53	.80	41.03		.58		
	WASH	3	34.92	35.32	53.18	>1.70		1.87	25.07	23.24	49.82	.70	6180.	
1095	RAW	3	35.99	36.92	81.00			1.75	.89	15.90		.89		
	WASH	3	35.99	36.92	86.35	>1.70		3.46	27.97	9.65	58.92	.77	7227.	
1096	RAW	3	37.28	37.61	42.00			1.64	.90	37.01		2.22		
	WASH	3	37.28	37.61	63.86	>1.70		1.93	25.86	24.57	47.64	1.32	5991.	
1097	RAW	3	40.50	42.20	53.00			1.59	.98	34.98		1.09		
	WASH	3	40.50	42.20	54.64	>1.70		2.19	30.48	14.02	53.31	.81	6870.	
1098	RAW	2	42.62	43.16	28.00			1.80	1.03	35.71		.55		
	WASH	2	42.62	43.16	65.03	>1.70		2.65	28.20	15.80	53.35	.58	6680.	
1099	RAW	2	44.24	45.24	80.00			2.25	1.06	15.72		.39		
	WASH	2	44.24	45.24	85.74	>1.70		4.12	26.37	9.00	60.51	.34	7191.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/21

DRILL HOLE# TW84D-418

SAMPLE #	TYPE	SEAM	TDP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1066	RAW	9	8.96	9.78	79.00			1.78		17.24		4.51		
	WASH	9	8.96	9.78	83.66	>1.70		1.25	35.63	10.23	52.89	2.24	7296.	
1067	RAW	8	11.50	13.40	79.00			3.25		10.33		1.10		
	WASH	8	11.50	13.40	96.13	>1.70		1.86	31.68	7.72	58.74	1.04	7405.	
1068	RAW	7	26.04	27.04	100.00			4.08		17.17		1.46		
	WASH	7	26.04	27.04	86.99	>1.70		1.89	31.13	9.67	57.31	1.35	7216.	
1069	RAW	7	29.66	30.20	50.00			2.35		39.76		3.84		
	WASH	7	29.66	30.20	58.43	>1.70		1.45	30.03	15.88	52.64	2.82	6724.	
1070	RAW	7	32.10	33.26	78.00			3.50		27.91		2.78		
	WASH	7	32.10	33.26	74.90	>1.70		2.50	28.31	14.77	54.42	1.22	6689.	
1071	RAW	7	33.52	34.72	96.00			3.91		9.92		.85		
	WASH	7	33.52	34.72	93.21	>1.70		2.61	31.73	6.05	59.61	.83	7461.	
1072	RAW	6	42.84	44.36	92.00			5.19		16.26		.55		
	WASH	6	42.84	44.36	88.89	>1.70		2.19	30.13	9.18	58.50	.52	7148.	
1073	RAW	6	45.12	45.96	83.00			3.98		11.07		1.67		
	WASH	6	45.12	45.96	92.29	>1.70		2.01	31.60	7.04	59.35	.81	7424.	
1074	RAW	3U	60.65	60.95	100.00			1.73		35.53		3.16		
	WASH	3U	60.65	60.95	42.79	>1.70		1.47	26.71	17.03	54.79	2.33	6592.	
1075	RAW	3	67.80	69.96	19.00			2.23		40.63		.63		
	WASH	3	67.80	69.96	53.44	>1.70		1.52	32.67	17.31	48.50	.81	6593.	
1076	RAW	2	73.08	76.84	56.00			3.84		16.57		.36		
	WASH	2	73.08	76.84	89.57	>1.70		2.01	29.66	10.52	57.81	.39	7168.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TW84D-419

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES F.S.I.
1121	RAW	1	68.75	69.12	92.00			1.20		15.82		1.39	
	WASH	1	68.75	69.12	87.87	>1.70	1.91	1.22	30.54	9.61	58.63	1.48	7655.
1122	RAW	1	72.62	72.91	83.00			.91		19.83		1.26	
	WASH	1	72.62	72.91	86.20	>1.70	1.26	1.06	30.67	14.65	53.62	1.11	7181.

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/21

DRILL HOLE# TW84D-420

SAMPLE #	TYPE	SEAM	TOP	BDTOM	YIELD	S.G.	AIRORYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBDN	% SULPHUR	CALORIES	F.S.I.
1123	RAW	7	51.57	52.54	80.00		3.53	.94		10.36		2.79		
	WASH	7	51.57	52.54	96.64	>1.70		1.50	32.20	8.33	57.97	2.60	7429.	
1124	RAW	6	62.73	63.56	95.00		3.24	1.04		20.86		2.01		
	WASH	6	62.73	63.56	79.98	>1.70		1.49	32.93	8.36	57.22	1.67	7426.	
1125	RAW	6	65.78	67.04	69.00		3.09	1.30		24.80		2.35		
	WASH	6	65.78	67.04	72.46	>1.70		1.70	29.72	9.05	59.53	1.43	7226.	
1126	RAW	6	67.08	71.50	47.00		3.44	1.42		10.67		.41		
	WASH	6	67.08	71.50	91.41	>1.70		1.90	33.26	6.65	58.19	.44	7535.	
1127	RAW	6	77.78	80.24	65.00		4.24	1.43		7.25		.78		
	WASH	6	77.78	80.24	94.60	>1.70		1.85	31.75	3.86	62.54	.67	7730.	
1128	RAW	3L	85.50	86.02	29.00		1.71	1.16		18.14		.56		
	WASH	3L	85.50	86.02	88.04	>1.70		1.76	32.43	14.04	51.77	.62	6935.	
1129	RAW	2	87.48	89.08	38.00		3.85	1.34		24.88		.48		
	WASH	2	87.48	89.08	80.84	>1.70		2.82	28.74	13.72	54.72	.32	6849.	
1130	RAW	2	90.25	91.10	71.00		2.98	1.31		20.87		.96		
	WASH	2	90.25	91.10	84.66	>1.70		2.33	29.32	9.85	58.50	.67	7276.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TW84D-421

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RES DUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1131	RAW	1U	41.26	41.70	86.00			2.19	1.20	32.06		.67		
	WASH	1U	41.26	41.70	63.17	>1.70		1.30	27.58	17.27	53.85	.74	6957.	
1132	RAW	1	46.46	46.78	100.00			2.19	1.32	38.66		.85		
	WASH	1	46.46	46.78	59.17	>1.70		1.22	27.54	14.92	56.32	.72	7063.	
1133	RAW	1	48.58	50.80				2.82	1.25	36.31		.89		
	WASH	1	48.58	50.80	61.72	>1.70		1.46	25.67	19.60	53.27	.56	6549.	5.00
1134	RAW	1	52.53	53.34	100.00			3.91	1.27	24.68		.76		
	WASH	1	52.53	53.34	78.75	>1.70		1.81	24.34	16.45	57.40	.74	6773.	
1135	RAW	1L	66.16	66.60	100.00			2.14	1.12	41.77		1.88		
	WASH	1L	66.16	66.60	55.83	>1.70		1.33	23.02	29.46	46.19	1.52	5632.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TW84D-422

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRORYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1080	RAW	8	6.24	7.82	35.00			2.26	1.21	12.08		.62		
	WASH	8	6.24	7.82	93.46	>1.70		2.76	30.13	7.90	59.21	.63	7314.	
1081	RAW	7	20.60	21.86	95.00			2.62	1.28	17.79		1.42		
	WASH	7	20.60	21.86	84.40	>1.70		1.87	30.42	9.67	58.04	1.33	7272.	
1082	RAW	6	28.96	29.30	59.00			2.35	1.98	9.94		2.24		
	WASH	6	28.96	29.30	95.14	>1.70		1.53	31.22	7.57	59.68	1.80	7542.	
1083	RAW	6	29.66	32.14	44.00			2.36	1.07	11.81		1.67		
	WASH	6	29.66	32.14	90.19	>1.70		3.46	28.21	7.92	60.41	1.49	7350.	
1084	RAW	4/5	35.36	35.75	82.00			1.94	1.00	12.68		1.66		
	WASH	4/5	35.36	35.75	90.37	>1.70		1.36	30.42	7.95	60.27	1.26	7511.	
1085	RAW	4/5	36.52	39.24	77.00			2.33	1.15	11.29		.85		
	WASH	4/5	36.52	39.24	90.13	>1.70		1.85	29.46	6.98	61.71	.70	7461.	
1086	RAW	3	42.56	44.44	43.00			2.10	1.03	15.58		.43		
	WASH	3	42.56	44.44	85.08	>1.70		2.55	30.43	7.75	59.27	.50	7396.	
1087	RAW	3L	45.18	45.82	100.00			2.01	.88	8.55		1.00		
	WASH	3L	45.18	45.82	94.92	>1.70		1.90	30.57	5.99	61.54	1.04	7621.	
1088	RAW	3L	46.34	46.92	78.00			1.84	.97	19.73		1.81		
	WASH	3L	46.34	46.92	78.92	>1.70		1.56	31.14	6.44	60.84	1.53	7588.	
1089	RAW	2	51.44	51.81	41.00			1.84	.96	24.82		.40		
	WASH	2	51.44	51.81	78.98	>1.70		1.56	27.82	11.81	58.81	.43	7155.	
1090	RAW	2	52.57	53.46	97.00			1.99	.94	22.12		2.28		
	WASH	2	52.57	53.46	79.82	>1.70		1.73	28.55	13.75	55.97	.75	6954.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TW84D-423

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRY	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALDRIES	F.S.I.
1136	RAW	1	82.02	83.13	41.00			1.86	.80	31.85		.56		
	WASH	1	82.02	83.13	67.56	>1.70		1.40	27.07	16.01	55.52	.46	6876.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TW84D-424

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1138	RAW	1	157.32	163.02	100.00		2.77	1.03		16.24		1.88		
	WASH	1	157.32	163.02	90.50	>1.70		1.92	28.11	11.11	58.86	1.02	7296.	
1139	RAW	1	163.60	163.86	90.00		2.22	1.05		20.95		.72		
	WASH	1	163.60	163.86	83.90	>1.70		1.87	26.42	14.30	57.41	.76	7021.	
1140	RAW	1	164.40	165.46	100.00		2.23	1.05		23.95		.52		
	WASH	1	164.40	165.46	77.51	>1.70		1.85	29.45	13.73	54.97	.55	7065.	
1141	RAW	1	170.66	171.30	100.00		2.81	1.04		32.84		.49		
	WASH	1	170.66	171.30	70.64	>1.70		2.34	25.74	22.52	49.40	.50	6184.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TW84D-425

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1152	RAW	1U	31.23	31.96	78.00			1.82	1.18	36.27		.45		
	WASH	1U	31.23	31.96	63.45	>1.70		1.56	26.77	22.38	49.29	.60	6305.	
1153	RAW	1U	32.32	32.68	62.00			2.16	1.17	29.88		.83		
	WASH	1U	32.32	32.68	81.22	>1.70		1.26	27.64	22.73	48.37	.87	6370.	
1154	RAW	1U	33.12	33.43	52.00			1.95	1.03	34.73		4.31		
	WASH	1U	33.12	33.43	65.85	>1.70		1.07	29.35	19.50	50.08	1.48	6680.	
1155	RAW	1U	36.72	37.08	78.00			1.92	.94	22.22		1.72		
	WASH	1U	36.72	37.08	90.57	>1.70		1.28	26.19	19.42	53.11	1.39	6690.	
1156	RAW	1U	38.68	39.08				2.06	1.16	41.52		1.71		
	WASH	1U	38.68	39.08	55.90	>1.70		1.50	26.36	20.96	51.18	.71	6501.	
1157	RAW	1U	40.32	41.80	50.00			4.65	1.06	30.14		1.26		
	WASH	1U	40.32	41.80	72.44	>1.70		1.64	25.98	20.63	51.75	.87	6470.	4.00
1158	RAW	1U	46.81	47.43				1.77	.92	40.19		.89		
	WASH	1U	46.81	47.43	50.73	>1.70		1.24	26.01	28.02	44.73	1.06	5747.	
1159	RAW	1	52.14	52.45	100.00			1.89	1.00	26.02		2.50		
	WASH	1	52.14	52.45	75.83	>1.70		1.21	27.12	15.20	56.47	1.92	7026.	
1160	RAW	1	53.70	56.78	95.00			2.80	1.26	25.83		.48		
	WASH	1	53.70	56.78	81.60	>1.70		1.84	26.06	18.36	53.74	.57	6635.	
1161	RAW	1L	59.36	60.04	100.00			3.21	1.42	22.95		.83		
	WASH	1L	59.36	60.04	78.98	>1.70		2.14	25.15	13.88	58.83	.73	7021.	
1162	RAW	1L	72.08	73.11	100.00			2.22	1.43	45.50		.51		
	WASH	1L	72.08	73.11	49.98	>1.70		1.82	22.92	25.20	50.06	.50	6023.	

TELKWA COAL SAMPLES
-----LORING LAB
DATE ANALYSED 84/08/29DRILL HOLE# TW84D-426

SAMPLE #	TYPE	SEAM	TOP	BOTDM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1137	RAW	2	4.60	6.10	30.00		2.75	1.54		10.98		.59		
	WASH	2	4.60	6.10	95.21	>1.70		3.30	29.46	8.37	60.87	.60	7202.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/10/01

ORILL HOLE# TW84D-428

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1224	RAW	10	40.59	41.02			2.69	1.19		45.91		.58		
	WASH	10	40.59	41.02	42.10	1.70		1.87	29.85	19.95	48.33	.77	6299.	
1225	RAW	9U	43.94	44.60	51.50		3.36	1.60		57.03		.41		
	WASH	9U	43.94	44.60	35.63	1.70		2.11	23.59	25.62	48.68	.51	5763.	
1226	RAW	9U	44.80	44.92	100.00		2.47	1.07		35.32		.35		
	WASH	9U	44.80	44.92	59.34	1.70		1.92	26.93	22.16	48.99	.49	6041.	
1227	RAW	9	45.52	47.17	43.00		3.42	1.48		24.60		1.02		
	WASH	9	45.52	47.17	80.92	1.70		2.22	28.70	15.56	53.52	.84	6746.	
1228	RAW	8	49.50	51.82	72.80		2.81	1.64		23.25		1.78		
	WASH	8	49.50	51.82	81.78	1.70		2.60	30.20	9.72	57.48	1.08	7210.	
1229	RAW	7	57.00	57.50			3.11	1.38		18.11		.98		
	WASH	7	57.00	57.50	85.43	1.70		2.69	30.40	10.61	56.30	.79	7174.	
1230	RAW	6U	60.57	62.05	65.50		2.85	1.54		46.45		2.54		
	WASH	6U	60.57	62.05	55.24	1.70		3.33	28.80	17.70	50.17	.93	6480.	
1231	RAW	6U	62.97	63.36	41.00		2.85	1.14		35.88		.46		
	WASH	6U	62.97	63.36	78.36	1.70		1.94	23.81	28.30	45.95	.44	5591.	
1232	RAW	6U	63.78	64.09	71.00		2.84	1.26		57.39		.36		
	WASH	6U	63.78	64.09	28.36	1.70		1.89	21.86	32.87	43.38	.48	5230.	
1233	RAW	6U	66.12	66.51	100.00		2.83	1.36		65.92		.25		
	WASH	6U	66.12	66.51	22.44	1.70		1.87	23.26	31.48	43.39	.49	5376.	
1234	RAW	6	66.85	67.55	65.70		2.61	1.26		43.85		.90		
	WASH	6	66.85	67.55	61.65	1.70		2.38	22.74	27.07	47.81	.62	5690.	
1235	RAW	6	68.10	69.08	90.00		2.53	1.31		24.18		5.49		
	WASH	6	68.10	69.08	76.08	1.70		2.76	30.68	11.45	55.11	1.44	7103.	
1236	RAW	6L	71.84	72.64	62.50		2.52	1.17		22.48		1.97		
	WASH	6L	71.84	72.64	81.03	1.70		2.23	28.22	12.13	57.42	.97	7090.	
1237	RAW	2	84.70	85.79	87.10		2.75	1.34		30.54		.46		
	WASH	2	84.70	85.79	67.86	1.70		3.62	27.49	14.33	54.56	.44	6728.	
1238	RAW	2	86.69	87.18	100.00		2.98	1.24		17.66		1.15		

TELKWA COAL SAMPLES
-----LORING LAB
DATE ANALYSED 84/10/12DRILL HOLE# TW84D-428

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MDISTURE	% VOLATILES	% ASH	% CARBDN	% SULPHUR	CALORIES	F.S.I.
1238	WASH	2	86.69	87.18	92.51	1.70		2.97	27.58	14.49	54.96	1.00	6780.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TW84D-430

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALDRIES F.S.I.
1142	RAW	8	7.68	24.08	49.00			4.96		10.83		.41	
	WASH	8	7.68	24.08	91.76	>1.70		2.62	27.40	6.58	63.40	.43	7420.
1143	RAW	7	45.60	47.54	77.00			6.18		43.65		.74	
	WASH	7	45.60	47.54	49.19	>1.70		1.97	26.79	18.16	53.08	.70	6466.
1144	RAW	6	60.00	61.52	25.00			3.48		47.51		4.07	
	WASH	6	60.00	61.52	47.48	>1.70		1.63	25.98	28.41	43.98	2.51	5648.
1145	RAW	2	77.82	78.58	33.00			2.92		20.77		.93	
	WASH	2	77.82	78.58	75.90	>1.70		2.00	27.72	9.24	61.04	.69	7426.
1146	RAW	2	80.36	80.74	58.00			3.40		25.79		.33	
	WASH	2	80.36	80.74	78.00	>1.70		2.02	25.56	16.56	55.86	.40	6635.
1147	RAW	2L	81.66	81.84	100.00			4.69		33.34		.41	
	WASH	2L	81.66	81.84	74.13	>1.70		1.78	23.96	19.08	55.18	.44	6473.
1148	RAW	2L	82.32	82.76	100.00			3.32		14.09		.76	
	WASH	2L	82.32	82.76	90.87	>1.70		2.13	27.95	10.40	59.52	.83	7261.

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TW84D-430A

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1149	RAW	8	7.60	8.32	24.00			5.09	1.54	19.39		3.75		
	WASH	8	7.60	8.32	85.28	>1.70		2.60	32.07	9.55	55.78	3.04	7208.	
1150	RAW	8	9.16	19.04	69.00			3.44	2.18	16.94		2.46		
	WASH	8	9.16	19.04	86.43	>1.70		4.12	29.07	8.76	58.05	1.76	7245.	
1151	RAW	8	19.60	23.00	32.00			5.25	2.62	13.87		.46		
	WASH	8	19.60	23.00	89.29	>1.70		5.17	26.57	8.08	60.18	.47	7263.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TWB4D-431

SAMPLE #	TYPE	SEAM	TDP	BDTOM	YIELD	S.G.	AIRDRYLOSS	RESIOUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES F.S.I.
1163	RAW	10	35.90	36.30	15.00		2.23	1.00		22.27		3.57	
	WASH	10	35.90	36.30	80.88	>1.70		1.04	32.77	12.13	54.06	2.86	7241.
1164	RAW	9	42.68	43.56	100.00		3.01	1.12		15.36		3.48	
	WASH	9	42.68	43.56	88.17	>1.70		1.03	35.78	8.89	54.30	2.05	7541.
1165	RAW	8	45.84	48.06	77.00		3.82	1.35		12.96		2.52	
	WASH	8	45.84	48.06	88.61	>1.70		1.36	30.08	8.51	60.05	1.39	7474.
1166	RAW	7	72.24	72.52	100.00		2.65	1.12		14.69		1.16	
	WASH	7	72.24	72.52	86.14	>1.70		1.25	30.46	8.71	59.58	1.17	7529.
1167	RAW	6	78.84	79.26	76.00		2.04	.97		10.68		.63	
	WASH	6	78.84	79.26	96.06	>1.70		1.04	18.90	9.47	70.59	.60	7466.
1168	RAW	6	81.20	83.54	90.00		4.22	1.45		8.87		.55	
	WASH	6	81.20	83.54	93.05	>1.70		1.75	31.45	5.38	61.42	.55	7670.
1169	RAW	6	85.22	85.64	86.00		1.96	1.21		28.08		1.15	
	WASH	6	85.22	85.64	70.34	>1.70		1.40	30.49	10.89	57.22	.91	7332.
1170	RAW	6L	88.12	88.40	54.00		1.97	1.06		46.98		3.56	
	WASH	6L	88.12	88.40	41.50	>1.70		1.26	28.75	14.21	55.78	3.68	6859.
1171	RAW	6L	89.22	90.00	100.00		3.06	1.22		8.48		1.47	
	WASH	6L	89.22	90.00	96.60	>1.70		1.57	30.59	7.34	60.50	1.41	7587.
1172	RAW	2	112.80	113.10	31.00		3.28	1.37		36.09		1.53	
	WASH	2	112.80	113.10	59.88	>1.70		1.90	25.28	18.73	54.09	1.15	6511.
1173	RAW	2	117.64	118.12	88.00		2.35	1.36		35.72		2.62	
	WASH	2	117.64	118.12	66.03	>1.70		1.48	28.20	22.41	47.91	1.93	6251.
1174	RAW	2	119.84	120.36	100.00		2.30	1.35		19.14		1.27	
	WASH	2	119.84	120.36	82.45	>1.70		1.72	32.51	11.34	54.43	1.12	7225.
1175	RAW	2	121.66	121.98	75.00		3.01	1.29		25.12		.56	
	WASH	2	121.66	121.98	77.51	>1.70		2.06	27.15	15.58	55.21	.58	6819.

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/10/01

DRILL HOLE# TW84D-432

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1208	RAW	10	20.30	20.65	100.00		3.41	1.65		43.34		3.38		
	WASH	10	20.30	20.65	58.18	1.70		2.17	28.42	19.97	49.44	2.57	6314.	
1209	RAW	9	27.10	28.04	85.00		3.63	1.58		20.31		3.49		
	WASH	9	27.10	28.04	86.76	1.70		2.11	29.89	12.96	55.04	1.86	7006.	
1210	RAW	8	32.86	34.26	78.00		3.73	1.73		15.45		2.48		
	WASH	8	32.86	34.26	90.01	1.70		2.15	29.50	10.95	57.40	1.40	7227.	
1211	RAW	7	74.32	75.68	49.00		4.29	1.78		23.02		.73		
	WASH	7	74.32	75.68	86.58	1.70		2.88	25.75	18.43	52.94	.65	6570.	
1212	RAW	6	80.76	81.48	44.00		3.85	1.49		31.79		1.91		
	WASH	6	80.76	81.48	70.96	1.70		2.56	26.51	11.51	59.42	2.08	7164.	
	B41001	6	80.76	81.48										.00
1213	RAW	2	101.12	102.24	66.00		3.17	1.67		20.08		1.61		
	WASH	2	101.12	102.24	90.79	1.70		2.30	27.09	16.60	54.01	1.33	6697.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/08/29

DRILL HOLE# TW84D-433

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1176	RAW	9	73.66	74.92	74.00		5.69	2.10		31.52		2.49		
	WASH	9	73.66	74.92	72.74	>1.70		2.50	28.30	15.26	53.94	2.31	6787.	
1177	RAW	8	79.86	82.62	94.00		3.18	2.86		15.60		1.31		
	WASH	8	79.86	82.62	90.25	>1.70		3.02	28.82	9.82	58.34	1.04	7181.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/10/01

DRILL HOLE# TW84D-434

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1214	RAW	8	29.78	30.82	80.00			2.87	1.44	18.85		1.18		
	WASH	8	29.78	30.82	85.23	>1.70		1.82	27.91	11.59	58.68	.72	7238.	
1215	RAW	7	45.50	46.68	91.00			2.13	1.23	22.36		2.28		
	WASH	7	45.50	46.68	74.05	>1.70		1.60	30.38	12.02	56.00	1.67	7366.	
1216	RAW	6	50.76	53.10	58.00			2.96	1.38	17.36		.68		
	WASH	6	50.76	53.10	87.82	>1.70		2.23	29.39	11.16	57.22	.67	7317.	
1217	RAW	5	61.84	62.72	84.00			2.34	1.22	13.34		.65		
	WASH	5	61.84	62.72	88.64	>1.70		1.44	30.55	9.44	58.57	.62	7719.	
1218	RAW	4	63.24	64.00	100.00			2.30	1.14	18.69		1.17		
	WASH	4	63.24	64.00	87.41	>1.70		1.80	28.83	15.74	53.63	.98	7001.	
1219	RAW	3	77.28	78.30	100.00			2.58	1.21	15.46		2.24		
	WASH	3	77.26	78.30	93.83	>1.70		1.65	27.69	13.90	56.56	1.19	7097.	
1220	RAW	3	78.84	79.18	73.00			2.22	1.11	24.81		1.74		
	WASH	3	78.84	79.18	78.80	>1.70		1.22	28.72	19.97	50.09	1.60	6690.	
1221	RAW	2	82.33	82.76	56.00			2.19	1.28	33.23		2.72		
	WASH	2	82.33	82.76	64.09	>1.70		1.21	29.01	17.58	52.20	1.71	6933.	
1222	RAW	2	83.38	84.52	88.00			2.50	1.26	32.44		.40		
	WASH	2	83.38	84.52	68.56	>1.70		1.94	28.68	14.58	54.80	.51	7054.	
1223	RAW	2	86.00	86.68	100.00			2.73	1.24	19.25		.52		
	WASH	2	86.00	86.68	85.49	>1.70		1.72	28.45	15.48	54.35	.59	7000.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/10/01

DRILL HOLE# TWB4D-435

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F. S. I.
1254	RAW	10	12.30	12.80	60.00		8.25	1.34		17.86		2.35		
	WASH	10	12.30	12.80	89.20	>1.70		1.68	29.60	13.68	55.04	2.14	7159.	
1255	RAW	9	22.12	23.28	78.00		6.40	1.55		21.91		2.43		
	WASH	9	22.12	23.28	79.49	>1.70		2.46	30.67	13.11	53.76	1.96	7120.	
1256		8	29.72	30.14										.00
	RAW	8	29.72	30.14	86.00		7.69	1.43		25.96		4.08		
	WASH	8	29.72	30.14	77.43	>1.70		1.87	31.18	13.26	53.69	3.93	7157.	
1257	RAW	8	30.52	32.64	89.00		4.61	1.60		18.47		1.97		
	WASH	8	30.52	32.64	88.45	>1.70		4.34	28.39	12.26	55.01	.99	7003.	
1258	RAW	7	53.32	54.72	62.00		5.44	1.62		25.11		8.65		
	WASH	7	53.32	54.72	73.02	>1.70		3.96	30.51	11.60	53.93	1.95	7130.	
1259	RAW	6U	62.60	63.28	59.00		6.73	1.54		23.41		.72		
	WASH	6U	62.60	63.28	82.59	>1.70		2.10	27.28	14.61	56.01	.55	7009.	
1260	RAW	6	67.00	68.10	70.00		3.92	1.44		33.45		.89		
	WASH	6	67.00	68.10	70.30	>1.70		3.12	27.62	19.20	50.06	.78	6483.	
1261	RAW	2	81.92	82.76	77.00		4.20	1.18		18.12		1.20		
	WASH	2	81.92	82.76	87.54	>1.70		1.88	29.09	15.22	53.81	1.13	7022.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/10/01

DRILL HOLE# TW84N-436

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1201	RAW WASH	10 10	26.58 26.58	27.51 27.51	92.00 95.90	>1.70	3.05	1.03 2.03	31.65	10.19 9.74	56.58	2.88 2.13	7455.	
1202	RAW WASH	9 9	37.98 37.98	39.00 39.00	90.00 88.81	>1.70	2.42	1.05 1.54	34.04	15.15 10.88	53.54	4.30 2.66	7541.	
1203	RAW WASH	8 8	40.16 40.16	40.52 40.52	100.00 83.04	>1.70	2.58	1.11 1.42	30.56	17.13 12.48	55.54	2.97 2.08	7355.	
1204	RAW WASH	8 8	40.79 40.79	42.90 42.90	93.00 92.24	>1.70	3.48	1.17 2.52	29.13	13.28 11.39	56.96	1.86 .95	7289.	
1205	RAW WASH	7 7	59.12 59.12	60.26 60.26	83.00 82.34	>1.70	3.05	1.00 2.39	28.85	21.34 12.71	56.05	1.89 1.36	7225.	
1206	RAW WASH	6 6	66.52 66.52	67.56 67.56	91.00 74.10	>1.70	3.26	1.20 2.20	25.84	30.98 20.51	51.45	1.04 .95	6579.	
1207	RAW WASH	6 6	68.68 68.68	70.04 70.04	100.00 91.18	>1.70	3.72	1.16 3.71	28.19	14.59 12.46	55.64	.95 .86	7154.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/10/09

DRILL HOLE# TW84D-437

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1239	RAW	3	30.64	31.88	24.00		2.09	.80		21.52		3.19		
	WASH	3	30.64	31.88	79.09	>1.70		1.22	27.28	12.80	58.70	1.19	7108.	
1240	RAW	3	32.20	32.60	50.00		1.88	.70		15.97		1.07		
	WASH	3	32.20	32.60	87.62	>1.70		1.02	29.22	11.81	57.95	.88	7239.	
1241	RAW	2	41.78	42.24	90.00		2.44	1.01		32.94		4.55		
	WASH	2	41.78	42.24	69.73	>1.70		1.24	25.14	19.39	54.23	.91	6448.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/10/09

DRILL HDLE# TW84D-438

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBDN	% SULPHUR	CALORIES	F.S.I.
1178	RAW	10	47.44	48.37	86.00			2.44	.91	10.71		3.89		
	WASH	10	47.44	48.37	93.95	>1.70		1.25	32.51	8.26	57.98	2.91	7509.	
1179	RAW	8	60.56	61.52	39.00			1.78	.78	15.52		5.56		
	WASH	8	60.56	61.52	81.96	>1.70		1.14	31.85	8.30	58.71	2.14	7459.	
1180	RAW	7	85.40	86.00	94.00			2.24	.89	49.22		2.70		
	WASH	7	85.40	86.00	42.84	>1.70		1.03	27.94	16.88	54.15	1.65	6826.	
1181	RAW	7	86.84	87.13	100.00			2.01	.94	18.73		3.67		
	WASH	7	86.84	87.13	87.67	>1.70		1.08	27.49	11.80	59.63	2.99	7185.	
1182	RAW	7	88.88	89.80	100.00			2.55	.97	17.57		2.67		
	WASH	7	88.88	89.80	89.24	>1.70		1.79	27.65	11.50	59.06	1.88	7116.	
1183	RAW	7	91.06	91.57	100.00			2.17	.80	12.23		1.26		
	WASH	7	91.06	91.57	91.57	>1.70		2.13	28.84	8.04	60.99	1.23	7408.	
1184	RAW	6	96.38	98.39	97.00			2.93	.96	10.50		.50		
	WASH	6	96.38	98.39	92.39	>1.70		2.76	29.66	7.38	60.20	.52	7443.	
1185	RAW	3	114.25	114.80	100.00			2.71	.65	17.11		1.91		
	WASH	3	114.25	114.80	95.16	>1.70		1.91	25.33	14.44	58.32	1.25	6967.	
1186	RAW	3	115.68	116.86	98.00			3.36	.77	14.60		2.10		
	WASH	3	115.68	116.86	94.36	>1.70		2.94	25.17	11.85	60.04	1.62	7047.	
1187	RAW	3	117.62	117.92	100.00			2.99	.84	20.22		1.82		
	WASH	3	117.62	117.92	85.60	>1.70		1.99	24.61	11.75	61.65	1.12	7167.	
1188	RAW	3	118.57	118.92	95.00			2.39	.76	31.42		1.78		
	WASH	3	118.57	118.92	69.79	>1.70		1.83	25.26	19.28	53.63	1.50	6359.	
1189	RAW	2	123.44	124.01	94.00			1.82	.84	38.44		3.47		
	WASH	2	123.44	124.01	57.83	>1.70		.94	27.67	22.46	48.93	2.88	6259.	
1190	RAW	2	124.94	125.96	49.00			2.29	.89	47.88		.55		
	WASH	2	124.94	125.96	46.41	>1.70		1.51	29.18	9.20	60.11	.51	7329.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/10/09

DRILL HOLE# TW84C-440

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1242	RAW	10	44.68	45.53	100.00			2.08	.92	13.03		3.35		
	WASH	10	44.68	45.53	92.76	1.70		1.26	34.68	9.08	54.98	2.20	7474.	
1243	RAW	9	48.51	49.13	100.00			2.43	1.26	54.04		2.53		
	WASH	9	48.51	49.13	39.82	1.70		.98	33.48	10.98	54.56	2.65	7349.	
1244	RAW	8	49.76	51.59	100.00			3.14	1.08	14.56		.75		
	WASH	8	49.76	51.59	92.36	1.70		2.01	28.14	9.65	60.20	.71	7285.	
1245	RAW	7	70.88	71.33				2.41	.97	13.72		3.84		
	WASH	7	70.88	71.33	94.01	1.70		1.12	28.56	10.43	59.89	2.53	7297.	
1246	RAW	6	75.38	76.30	90.00			1.46	.82	25.19		1.89		
	WASH	6	75.38	76.30	68.09	1.70		1.17	32.27	10.89	55.67	1.34	7372.	
1247	RAW	6	77.40	79.10	100.00			2.57	.95	28.92		1.78		
	WASH	6	77.40	79.10	65.07	1.70		1.45	29.43	7.88	61.24	.85	7649.	
1248	RAW	6	80.05	80.42	81.00			2.81	1.37	65.45		.45		
	WASH	6	80.05	80.42	8.81	1.70		1.17	25.30	26.84	46.69	.82	5863.	
1249	RAW	5	82.76	86.83	94.00			3.14	.97	17.09		.49		
	WASH	5	82.76	86.83	90.92	1.70		2.30	26.85	11.84	59.01	.50	7103.	
1250	RAW	4	88.00	89.71	100.00			2.39	.88	14.81		2.95		
	WASH	4	88.00	89.71	91.53	1.70		1.85	27.40	10.45	60.30	.80	7318.	
1251	RAW	3	93.63	94.65	100.00			2.43	.89	14.37		1.39		
	WASH	3	93.63	94.65	89.47	1.70		2.16	27.20	10.38	60.26	1.06	7284.	
1252	RAW	3	95.20	96.22	96.00			2.81	.80	15.03		1.74		
	WASH	3	95.20	96.22	92.91	1.70		2.34	25.55	12.30	59.81	1.23	7073.	
1253	RAW	2	106.94	109.16	94.00			3.06	.97	16.95		.48		
	WASH	2	106.94	109.16	84.75	1.70		1.92	24.51	9.25	64.32	.50	7446.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/10/09

DRILL HOLE# TWB4D-441

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLDSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1269	RAW	10	89.64	90.60	90.00		1.92	.82		17.98		1.10		
	WASH	10	89.64	90.60	92.69	1.70		1.51	26.84	12.42	59.23	1.06	7162.	
1270	RAW	9	95.36	96.64	70.00		1.32	.68		9.08		2.61		
	WASH	9	95.36	96.64	97.37	1.70		1.08	32.39	7.94	58.59	2.17	7667.	
1271	RAW	8	101.08	103.24	90.00		2.46	.87		17.14		1.66		
	WASH	8	101.08	103.24	87.07	1.70		2.47	26.28	11.03	60.22	1.19	7281.	
1272	RAW	7	125.72	127.80	100.00		2.19	.82		15.34		.43		
	WASH	7	125.72	127.80	90.36	1.70		1.36	28.61	10.65	59.38	.44	7248.	
1273	RAW	6	140.72	141.10	100.00		2.19	1.23		48.10		1.98		
	WASH	6	140.72	141.10	44.81	1.70		.72	28.81	25.18	45.29	.91	6263.	
1274	RAW	6	141.64	142.84	100.00		2.93	1.38		39.21		.57		
	WASH	6	141.64	142.84	52.32	1.70		1.20	25.98	23.34	49.48	.61	6272.	
1275	RAW	6	145.00	146.28	100.00		2.31	1.12		27.64		2.96		
	WASH	6	145.00	146.28	82.10	1.70		1.16	28.00	22.41	48.43	2.31	6368.	
1276	RAW	6	147.32	147.64	100.00		2.18	1.03		50.96		4.48		
	WASH	6	147.32	147.64	24.01	1.70		.71	27.15	31.10	41.04	2.42	5572.	
1277	RAW	5	151.56	152.28	100.00		2.75	1.13		36.19		.40		
	WASH	5	151.56	152.28	60.31	1.70		1.34	24.15	20.43	54.08	.47	6485.	
1278	RAW	5	154.40	154.96	100.00		2.57	1.18		39.96		.93		
	WASH	5	154.40	154.96	52.57	1.70		.85	27.79	21.37	49.99	.41	6395.	
1279	RAW	5	157.56	159.56	100.00		3.12	1.34		33.39		.33		
	WASH	5	157.56	159.56	67.06	1.70		1.83	26.38	15.41	56.38	.41	6804.	
1280	RAW	4	169.04	169.84	100.00		3.35	1.57		50.73		.27		
	WASH	4	169.04	169.84	41.11	1.70		1.42	25.13	21.50	51.95	.48	6272.	
1281	RAW	4	172.16	172.64	100.00		3.10	1.29		38.87		.30		
	WASH	4	172.16	172.64	70.18	1.70		2.17	21.37	31.57	44.89	.33	5393.	
1282	RAW	3	179.76	180.56	100.00		2.62	1.12		32.31		.35		
	WASH	3	179.76	180.56	73.58	1.70		1.85	24.65	24.59	48.91	.37	6114.	
1283	RAW	3	181.48	182.44	100.00		2.44	1.24		43.71		.30		

TELKWA COAL SAMPLES
-----LORING LAB
DATE ANALYSED 84/11/01DRILL HOLE# TW84D-441

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1283	WASH	3	181.48	182.44	51.24	1.70		1.69	26.13	22.24	49.94	.45	6190.	

TELKWA COAL SAMPLES
-----LORING LAB
DATE ANALYSED 84/10/05DRILL HOLE# TW84D-442

SAMPLE #	TYPE	SEAM	TDP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALDRIES F.S.I.
1191	RAW	2	12.83	15.32	75.00			2.66	1.05	21.57		.60	
	WASH	2	12.83	15.32	78.70	>1.70		2.46	26.26	12.29	58.99	.52	7068.

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/10/05

DRILL HOLE# TW84D-443

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALORIES	F.S.I.
1192	RAW	8	13.83	15.01	64.40			1.70	.70	18.58		2.39		
	WASH	8	13.83	15.01	88.21	>1.70		1.52	26.80	13.67	58.01	1.94	7096.	
1193	RAW	7	34.04	34.84	92.50			1.29	.54	26.87		3.73		
	WASH	7	34.04	34.84	74.64	>1.70		1.26	28.12	17.44	53.18	1.64	6830.	
1194	RAW	6	49.36	50.00	100.00			2.26	.75	39.45		.37		
	WASH	6	49.36	50.00	53.29	>1.70		1.67	24.15	20.96	53.33	.51	6412.	
1195	RAW	6	50.68	51.39	100.00			1.54	.85	37.57		2.32		
	WASH	6	50.68	51.39	58.45	>1.70		1.59	26.36	17.35	54.70	.76	6735.	.00
1196	RAW	6	53.60	54.44	84.50			2.35	.80	42.03		.53		
	WASH	6	53.60	54.44	53.91	>1.70		1.93	24.37	20.46	53.24	.62	6478.	
1197	RAW	6	55.28	56.45	100.00			2.65	.81	30.18		1.43		
	WASH	6	55.28	56.45	70.78	>1.70		1.68	25.29	17.55	55.48	.68	6693.	
1198	RAW	5	66.50	67.30	100.00			2.71	.88	32.45		.35		
	WASH	5	66.50	67.30	68.77	>1.70		2.30	24.13	19.70	53.87	.40	6428.	
1199	RAW	4	72.20	72.50	100.00			2.43	.83	45.46		.31		
	WASH	4	72.20	72.50	47.22	>1.70		1.52	22.69	25.57	50.22	.43	5921.	
1200		2	87.16	88.50										.00
	RAW	2	87.16	88.50	100.00			1.66	.50	37.98		.49		
	WASH	2	87.16	88.50	56.13	>1.70		2.50	25.92	19.82	51.76	.59	6411.	
1200A	RAW	2	90.16	91.92	93.70			2.00	.74	51.35		.32		
	WASH	2	90.16	91.92	29.71	>1.70		1.52	24.18	24.32	49.98	.55	5991.	

TELKWA COAL SAMPLES

LORING LAB
DATE ANALYSED 84/10/05

DRILL HOLE# TW84D-444

SAMPLE #	TYPE	SEAM	TOP	BOTTOM	YIELD	S.G.	AIRDRYLOSS	RESIDUAL MOISTURE	% VOLATILES	% ASH	% CARBON	% SULPHUR	CALDRIES F.S.I.
1262	RAW	6	67.47	68.84	54.00								
	WASH	6	67.47	68.84	77.83	>1.70	4.37	.90	25.09	15.51	57.67	.48	6864.
								1.73				.55	
1263	RAW	5	76.92	77.34	43.00								
	WASH	5	76.92	77.34	77.86	>1.70	3.26	.72	24.97	21.06	52.43	.43	6372.
								1.54				.37	
1264	RAW	4	87.04	87.48	75.00								
	WASH	4	87.04	87.48	50.72	>1.70	2.41	.76	23.41	23.46	51.70	.25	6144.
								1.43				.34	
1265	RAW	3	98.65	99.04	49.00								
	WASH	3	98.65	99.04	93.49	>1.70	3.14	.88	29.24	14.75	54.48	.40	6970.
								1.53				.36	
1266	RAW	3	99.88	101.46	66.00								
	WASH	3	99.88	101.46	57.23	>1.70	2.34	.90	28.17	22.47	47.55	.35	6192.
								1.81				.46	
1267	RAW	2	106.72	107.86	82.00								
	WASH	2	106.72	107.86	58.96	>1.70	2.69	.79	26.12	26.24	46.42	.97	5836.
								1.22				1.08	
1268	RAW	2	108.06	109.44	72.00								
	WASH	2	108.06	109.44	37.44	>1.70	1.89	.67	25.79	26.30	46.98	5.10	5871.
								.93				2.36	

TK Teikwa 84(4)A

WASHABILITY

DATA

CONFIDENTIAL

Appendix 7

240

part b

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM #10 BULK SAMPLE
 100 MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5625
 DATE: SEPTEMBER 20, 1983

12 X 50 KG. BATCHES OF 100MM X 0 RAW COAL TUMBLED FOR 80 SECONDS,
 WITH 150 LITRES H2O & 18 STEEL CUBES @ 20 RPM.
 WATER SOLUBLE (SO4) IN COAL AS ZS = 0.0822

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE	
					WTZ	ASHZ
+ 50	18.90	1.10	10.70	2.67	18.90	10.70
50 X 25	13.00	1.10	14.40	3.34	31.90	12.21
25 X 9.5	17.20	1.10	17.00	3.34	49.10	13.89
9.5 X 2.0	20.00	1.10	21.20	3.84	69.10	16.00
2.0 X 1.0	6.80	1.20	22.50	3.57	75.90	16.59
1.0 X 0.6	5.30	1.10	20.10	3.69	81.20	16.81
0.6 X 0.3	3.40	1.00	23.90	3.74	84.60	17.10
0.3 X 0.15	2.20	1.10	27.90	4.14	86.80	17.37
0.15 X 0	13.20	0.80	68.10	3.49	100.00	24.07

ZS = 3.40%

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	47.30	5.50	1.83	47.30	5.50	1.83
1.30 - 1.35	18.10	8.00	2.35	65.40	6.19	1.97
1.35 - 1.40	18.10	11.80	2.79	83.50	7.41	2.15
1.40 - 1.45	6.00	15.90	4.00	89.50	7.98	2.27
1.45 - 1.50	3.10	19.50	6.12	92.60	8.36	2.40
1.50 - 1.55	0.90	22.00	6.04	93.50	8.49	2.44
1.55 - 1.60	1.50	27.50	6.02	95.00	8.79	2.50
1.60 - 1.70	2.00	35.70	3.44	97.00	9.35	2.51
1.70 - 1.80	0.80	37.40	11.20	97.80	9.58	2.59
1.80 - 1.90	1.50	52.00	4.51	99.30	10.22	2.61
1.90 - SINK	0.70	77.50	10.50	100.00	10.69	2.67

DATA
OK
OCT 6.

~~CONFIDENTIAL~~

part 6

Birtley Coal
& Minerals Testing

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM #10 BULK SAMPLE
 100 MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5625
 DATE: SEPTEMBER 20, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	56.00	5.90	1.80	56.00	5.90	1.80
1.30 - 1.35	9.30	8.70	2.41	65.30	6.30	1.89
1.35 - 1.40	12.80	11.90	2.84	78.10	7.22	2.04
1.40 - 1.45	5.70	16.60	3.84	83.80	7.86	2.17
1.45 - 1.50	3.10	18.90	5.23	86.90	8.25	2.27
1.50 - 1.55	1.80	23.80	7.04	88.70	8.56	2.37
1.55 - 1.60	1.00	27.30	8.35	89.70	8.77	2.44
1.60 - 1.70	1.40	35.80	6.75	91.10	9.19	2.50
1.70 - 1.80	1.10	44.80	5.65	92.20	9.61	2.54
1.80 - 1.90	1.40	51.70	6.70	93.60	10.24	2.60
1.90 - SINK	6.40	71.80	14.10	100.00	14.18	3.34

Checked
 OK
 OCT 6/83

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	49.30	5.60	1.65	49.30	5.60	1.65
1.30 - 1.35	10.40	8.20	2.11	59.70	6.05	1.73
1.35 - 1.40	15.30	11.90	2.60	75.00	7.25	1.91
1.40 - 1.45	4.00	17.00	3.85	79.00	7.74	2.01
1.45 - 1.50	3.00	20.80	5.16	82.00	8.22	2.12
1.50 - 1.55	1.30	25.30	5.11	83.30	8.48	2.17
1.55 - 1.60	1.10	27.10	7.09	84.40	8.73	2.23
1.60 - 1.70	1.80	33.50	6.74	86.20	9.24	2.33
1.70 - 1.80	1.10	43.40	6.66	87.30	9.67	2.38
1.80 - 1.90	1.50	47.70	8.28	88.80	10.32	2.48
1.90 - SINK	11.20	73.80	10.90	100.00	17.43	3.42

Checked
 OK
 OCT 6/83

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM #10 BULK SAMPLE
 100 MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5625
 DATE: SEPTEMBER 20, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	32.60	4.40	1.69	32.60	4.40	1.69
1.30 - 1.35	19.30	7.20	1.88	51.90	5.44	1.76
1.35 - 1.40	14.80	10.70	2.22	66.70	6.61	1.86
1.40 - 1.45	6.50	15.80	2.80	73.20	7.42	1.95
1.45 - 1.50	2.40	21.20	3.77	75.60	7.86	2.00
1.50 - 1.55	1.40	25.10	4.26	77.00	8.18	2.04
1.55 - 1.60	1.00	28.40	5.65	78.00	8.43	2.09
1.60 - 1.70	2.00	32.80	6.46	80.00	9.04	2.20
1.70 - 1.80	1.10	39.40	9.33	81.10	9.46	2.30
1.80 - 1.90	1.60	46.60	8.90	82.70	10.17	2.42
1.90 - SINK	17.30	78.40	9.81	100.00	21.98	3.56

DATA OK
OCT 6/83

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	27.70	3.10	1.64	27.70	3.10	1.64
1.30 - 1.35	22.50	6.40	1.59	50.20	4.58	1.62
1.35 - 1.40	14.70	10.00	1.73	64.90	5.81	1.64
1.40 - 1.45	6.40	14.20	2.38	71.30	6.56	1.71
1.45 - 1.50	2.70	18.30	3.08	74.00	6.99	1.76
1.50 - 1.55	2.30	22.30	3.65	76.30	7.45	1.82
1.55 - 1.60	1.50	26.80	4.43	77.80	7.82	1.87
1.60 - 1.70	2.10	31.90	5.40	79.90	8.46	1.96
1.70 - 1.80	1.40	38.50	6.80	81.30	8.97	2.04
1.80 - 1.90	1.20	45.50	8.25	82.50	9.50	2.13
1.90 - SINK	17.50	76.70	8.99	100.00	21.26	3.33

DATA OK
OCT 6/83

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM #10 BULK SAMPLE
 100 MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5625
 DATE: SEPTEMBER 20, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	29.10	3.10	1.59	29.10	3.10	1.59
1.30 - 1.35	23.30	6.40	1.97	52.40	4.57	1.76
1.35 - 1.40	14.00	10.00	1.98	66.40	5.71	1.81
1.40 - 1.45	4.40	14.20	2.37	70.80	6.24	1.84
1.45 - 1.50	3.30	18.30	2.27	74.10	6.78	1.86
1.50 - 1.55	3.40	22.30	2.90	77.50	7.46	1.91
1.55 - 1.60	1.20	26.80	3.66	78.70	7.75	1.93
1.60 - 1.70	2.10	31.90	4.52	80.80	8.38	2.00
1.70 - 1.80	1.50	38.50	5.30	82.30	8.93	2.06
1.80 - 1.90	1.30	45.50	6.83	83.60	9.50	2.13
1.90 - SINK	16.40	76.70	9.24	100.00	20.52	3.30

OK
 OCT 6

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	30.80	2.50	1.59	30.80	2.50	1.59
1.30 - 1.35	20.20	6.20	1.75	51.00	3.97	1.65
1.35 - 1.40	9.70	10.20	1.89	60.70	4.96	1.69
1.40 - 1.45	5.10	13.30	2.25	65.80	5.61	1.73
1.45 - 1.50	2.50	18.80	2.67	68.30	6.09	1.77
1.50 - 1.55	3.40	20.90	2.42	71.70	6.79	1.80
1.55 - 1.60	2.00	25.60	3.26	73.70	7.30	1.84
1.60 - 1.70	2.60	31.30	3.90	76.30	8.12	1.91
1.70 - 1.80	1.70	37.30	5.07	78.00	8.76	1.98
1.80 - 1.90	1.20	43.60	6.20	79.20	9.29	2.04
1.90 - SINK	20.80	73.90	9.57	100.00	22.73	3.61

DATA CHECKED
 OK
 OCT-6/83

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM #10 BULK SAMPLE
 100 MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5625
 DATE: SEPTEMBER 20, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FL0AT - 1.30	26.30	2.60	1.78	26.30	2.60	1.78
1.30 - 1.35	15.40	6.40	1.93	41.70	4.00	1.84
1.35 - 1.40	12.10	10.80	2.19	53.80	5.35	1.92
1.40 - 1.45	4.90	13.50	2.40	58.70	6.03	1.96
1.45 - 1.50	2.70	18.10	2.95	61.40	6.56	2.00
1.50 - 1.55	3.80	19.70	3.05	65.20	7.33	2.06
1.55 - 1.60	1.80	25.00	3.69	67.00	7.80	2.10
1.60 - 1.70	3.30	31.80	3.78	70.30	8.89	2.18
1.70 - 1.80	2.00	38.10	5.16	72.30	9.70	2.27
1.80 - 1.90	1.60	44.70	5.86	73.90	10.46	2.34
1.90 - SINK	26.10	75.80	12.08	100.00	27.51	4.86

nk
oct 8

FROTH FLOTATION TEST, air dried basis: 0.3MM X 0.15MM

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE	
				WTZ	ASHZ
STAGE 1	49.60	9.80	2.60	49.60	9.80
STAGE 2	4.10	20.20	2.30	53.70	10.59
TAILINGS	46.30	47.40	7.23	100.00	27.64

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0 MM

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		SZ
				WTZ	ASHZ	
STAGE 1	31.20	33.50	2.89	31.20	33.50	2.89
STAGE 2	7.30	61.80	2.24	38.50	38.87	2.77
TAILINGS	61.50	83.50	3.99	100.00	66.32	

F.F. PARAMETERS

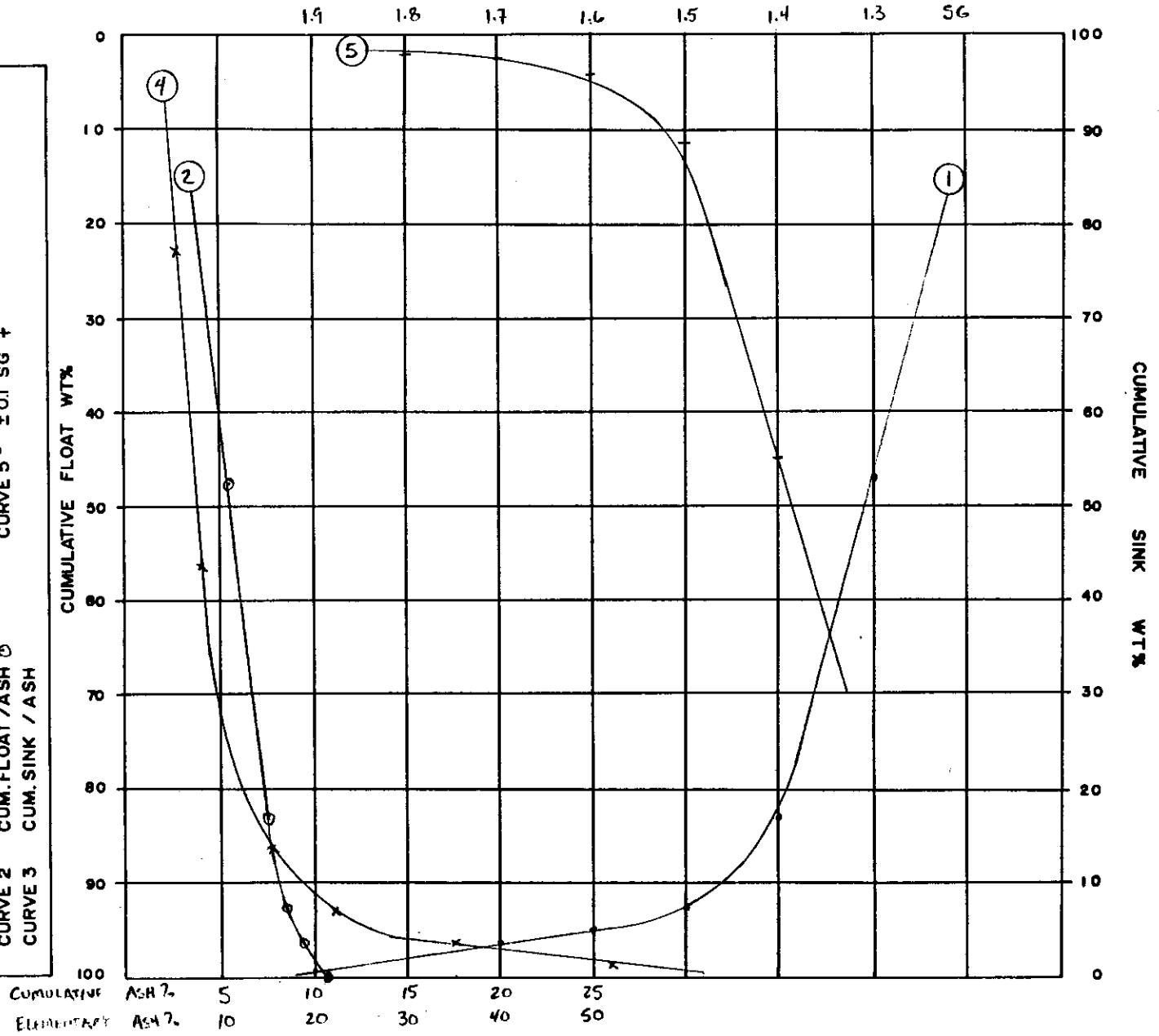
- 10% PULP DENSITY
- 1 MINUTE CONDITIONING WITH 0.5 LB/T
OF 4:1 = KEROSENE:MIBC
- STAGE 1 = 1ST MINUTE FROTH
- STAGE 2 = 2ND MINUTE FROTH

Birtley Coal
& Minerals Testing

NOTES

1. 18.9 WT% OF PLANT FEED.
2. DILUTION EXCLUDED BASIS
3. ELEMENTARY ASH CURVE INDICATES VERY SHARP SEPARATION - LITTLE IMPACT OF HIGH ASH COMPOSITE PARTICLES

CROWS NEST RESOURCES WASHABILITY CURVES
 DESCRIPTION: TELUKA SEAM 10 100-50 mm 100mm Top Size DATE: OCT /83
 CURVE 1 - YIELD/SG CURVE 4 - ELEMENTARY ASH X
 CURVE 2 - CUM. FLOAT / ASH O CURVE 5 - ± 0.1 SG +
 CURVE 3 - CUM. SINK / ASH



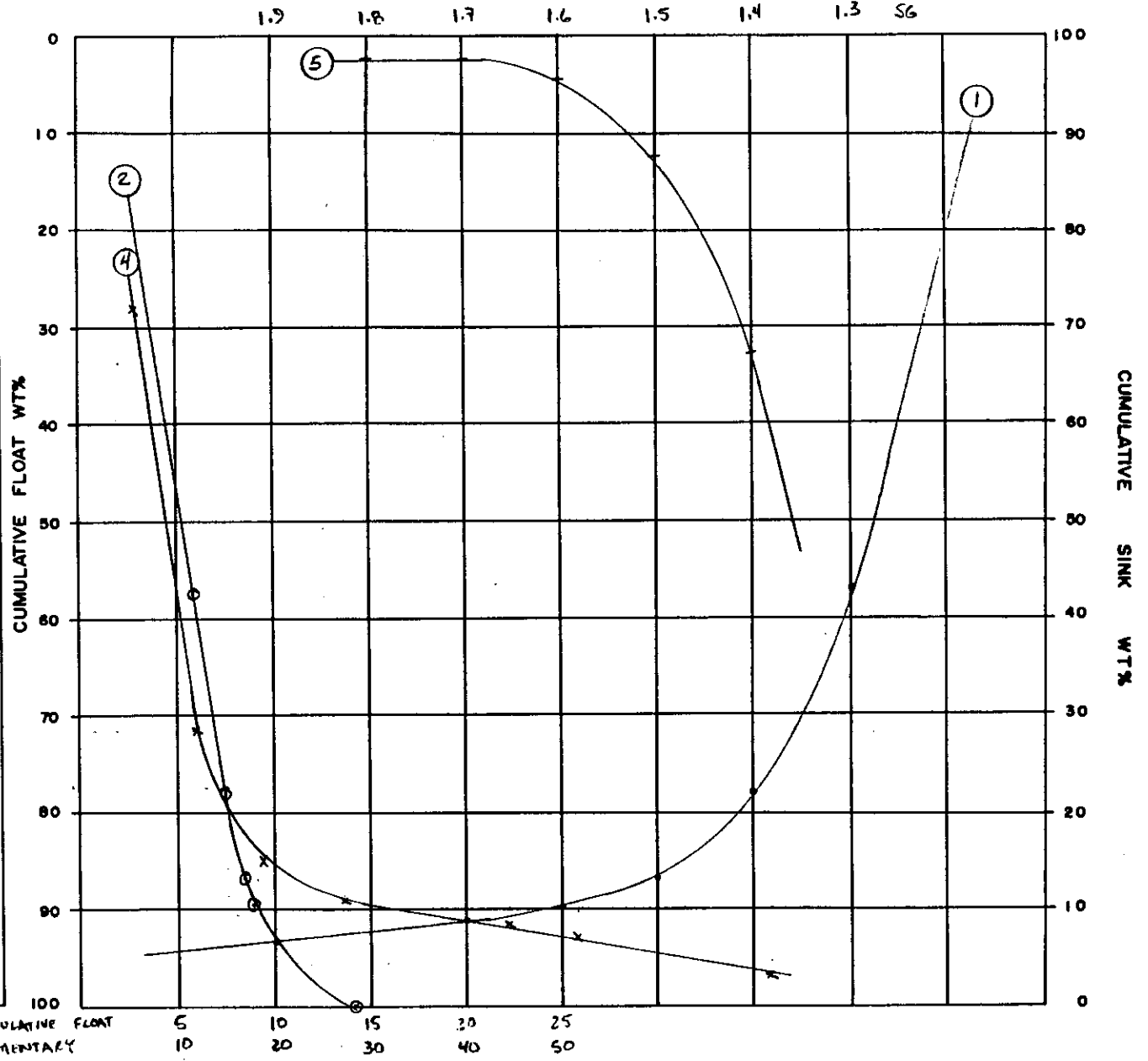
NOTES

1. 13 wt% OF PLANT FEED
2. DILUTION EXCLUDED BASIS

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKNA SEAM 10 50x25 mm 100mm TOP SIZE DATE: OCT /83
 CURVE 1 - YIELD/SG *
 CURVE 2 CUM.FLOAT /ASH ○
 CURVE 3 CUM.SINK /ASH
 CURVE 4 - ELEMENTARY ASH x
 CURVE 5 - ±0.1 SG †

% ASH

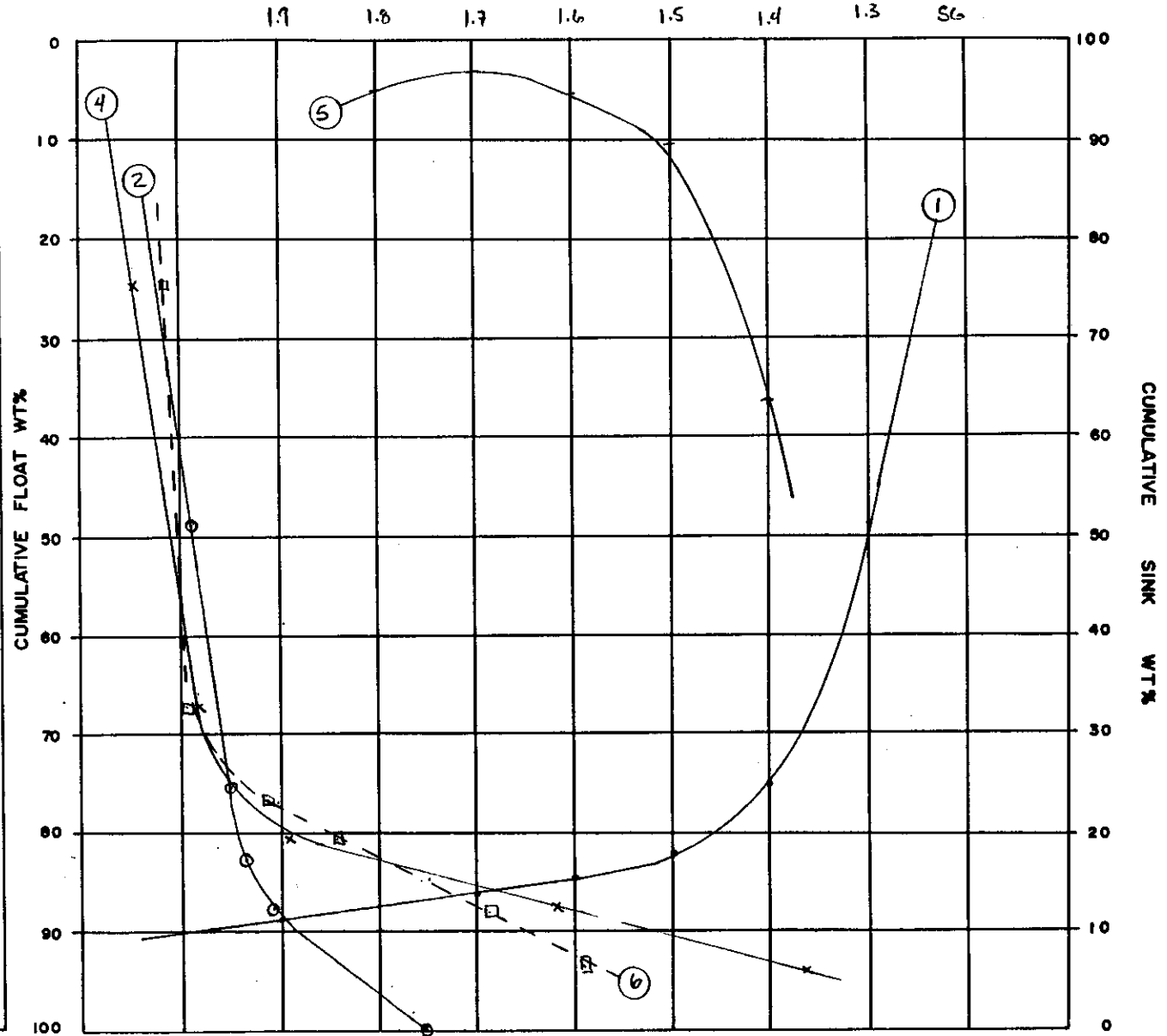
CUMULATIVE FLOAT
ELEMENTARY



NOTES

1. 17.2 WT% OF PLANT FEED
2. DILUTION EXCLUDED BASIS
3. ELEMENTARY SULPHUR CURVE INDICATES THAT AT SG 1.6, HIGHEST S PARTICLE IN CLEAN COAL PRODUCT IS 7%

GROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELUKA SEAM 10 25-9.5mm 100µm TOP SIZE DATE: OCT/63
 CURVE 1 - YIELD/SG
 CURVE 2 - CUM. FLOAT / ASH
 CURVE 3 - CUM. SINK / ASH
 CURVE 4 - ELEMENTARY ASH
 CURVE 5 - ±0.1 SG
 CURVE 6 - ELEMENTARY SULPHUR



% ASH	CUMULATIVE FLOAT	5	10	15	20	25
	ELEMENTARY	10	20	30	40	50
ELEMENTARY	SULPHUR%	2	4	6	8	10

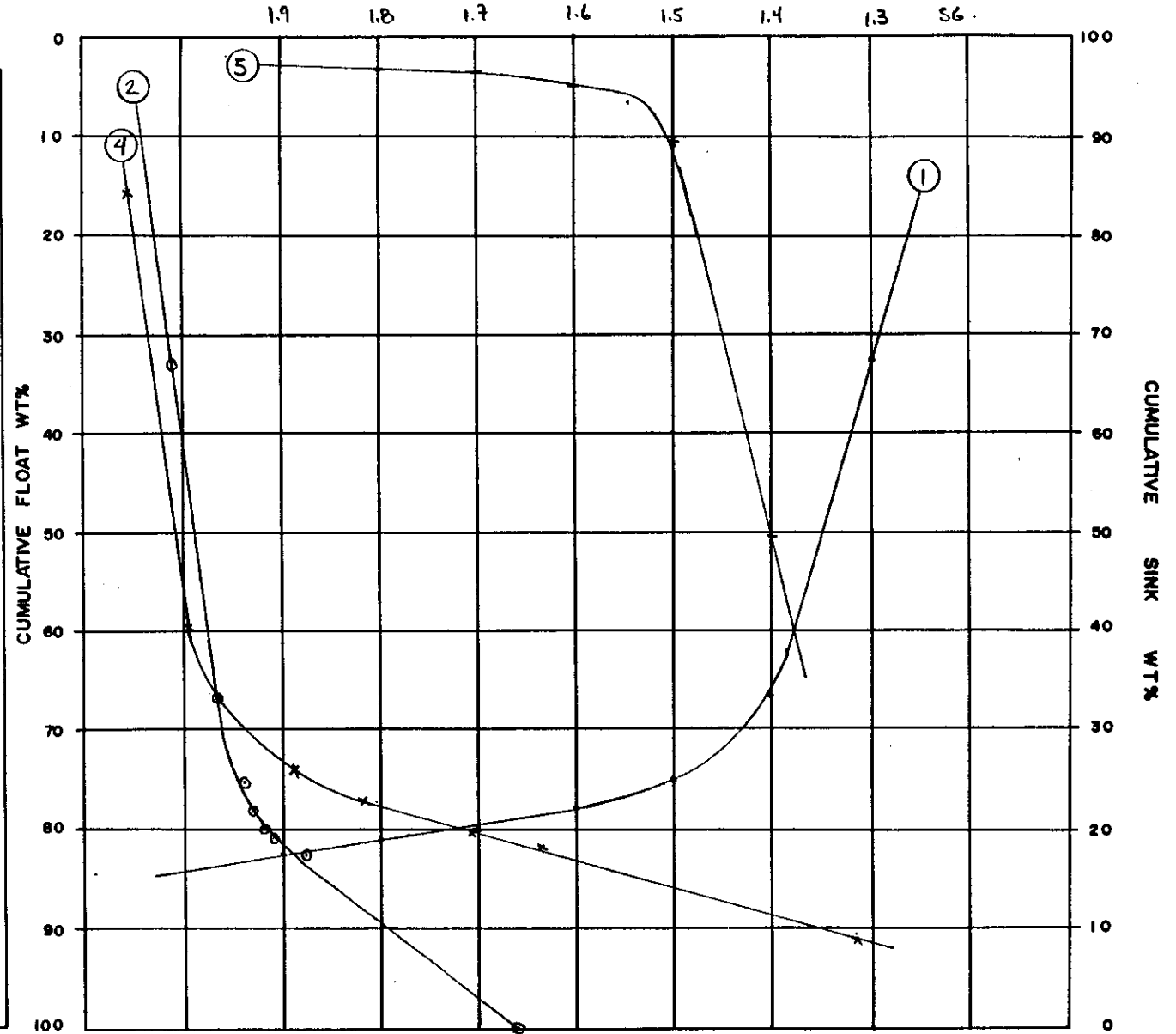
NOTES

1. 20 WT% OF PLANT FEED.
2. DILUTION EXCLUDED BASIS.
3. ELEMENTARY ASH CURVE SUGGESTS SOME HIGH ASH COMPOSITE PARTICLES PRESENT IN THE FLOAT PRODUCT.

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEMI 10 4.5x2mm 100µm TOP SIZE DATE: OCT/83
 CURVE 1 - YIELD/SG
 CURVE 2 - CUM. FLOAT / ASH
 CURVE 3 - CUM. SINK / ASH
 CURVE 4 - ELEMENTARY ASH x
 CURVE 5 - ±0.1 SG +

ASH%

CUMULATIVE FLOAT 5 10 15 20 25
 ELEMENTARY 10 20 30 40 50

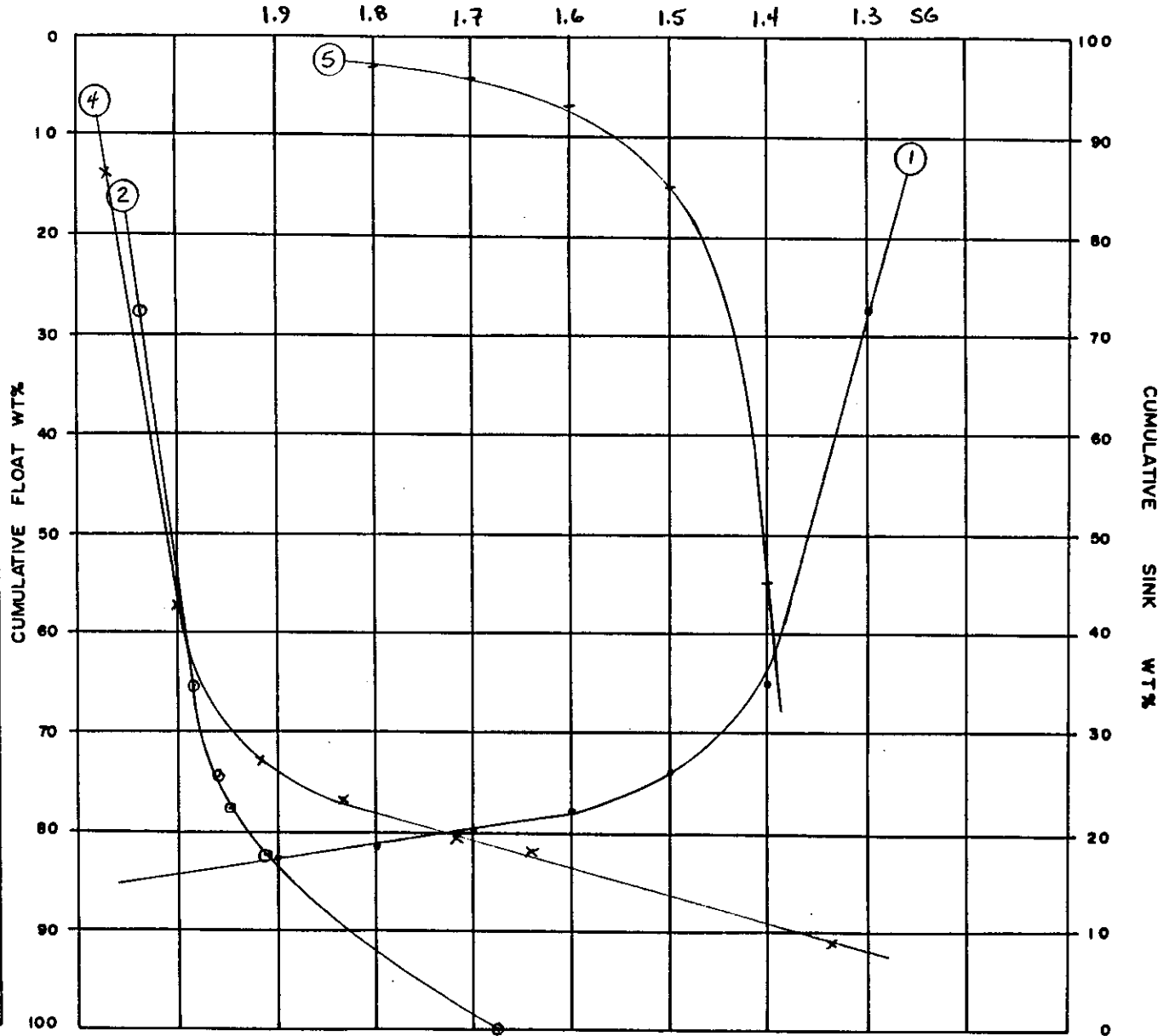


NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 6.8

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 10 2x1mm 100 mm Top Size DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ◊
 CURVE 3 CUM.SINK/ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG †

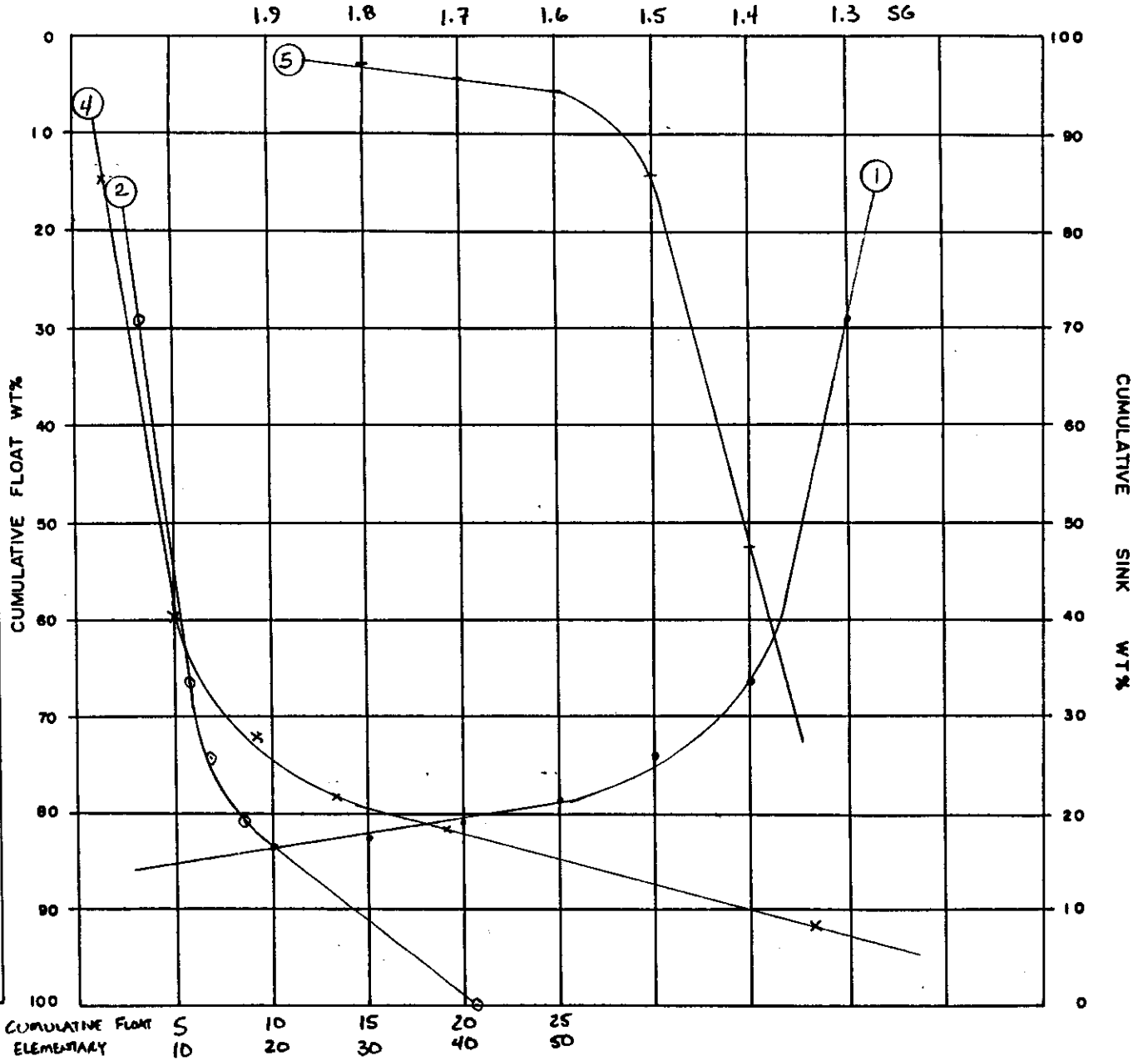
ASH % { CUMULATIVE FLOAT 5 10 15 20 25 30 40 50
 ELEMENTARY 10 20 30 40 50



NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 5.3

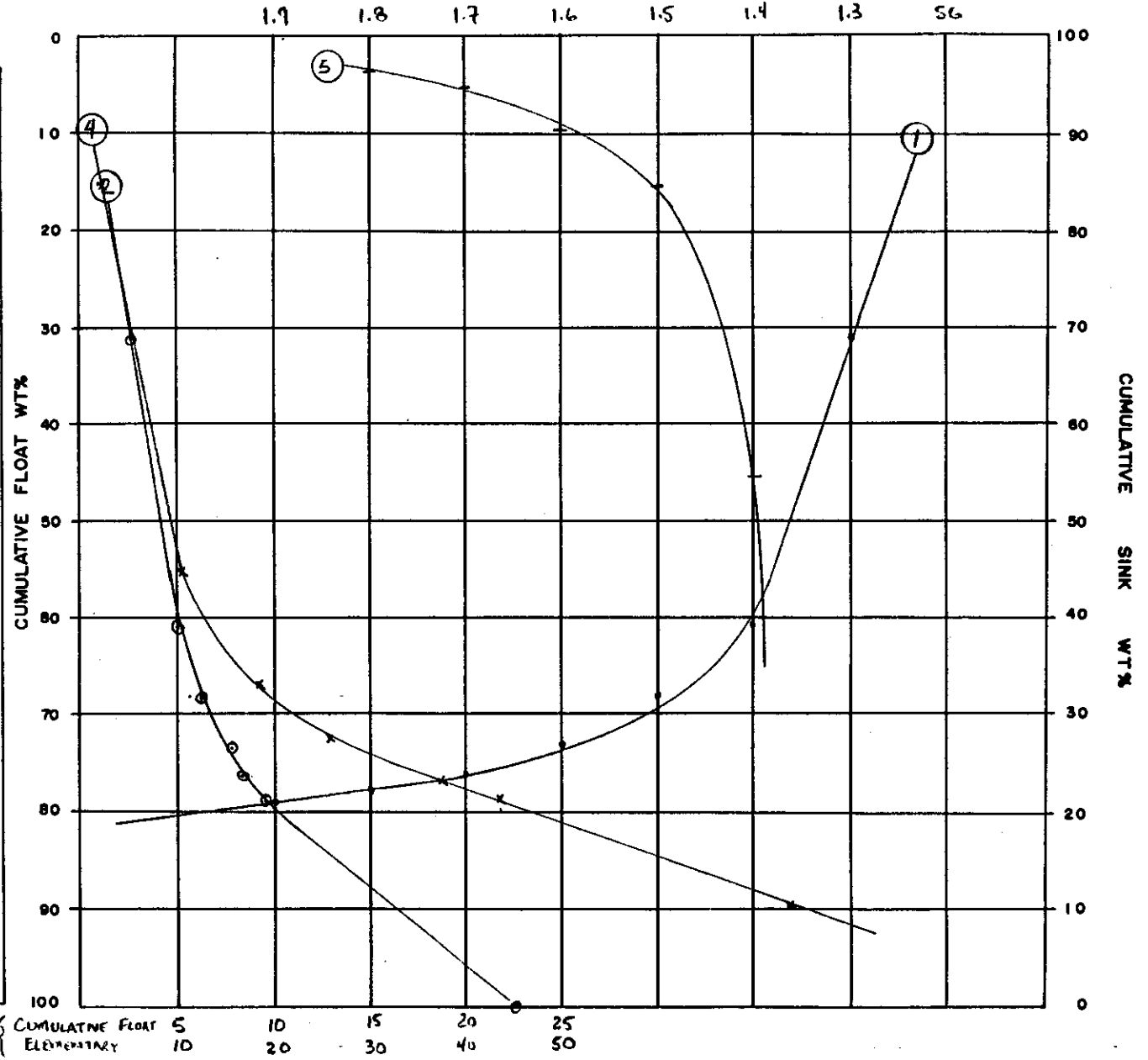
CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 10 1% .6mm 100mm Top Size DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ⊙
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG +



NOTES

1. 3.4 WT% OF PLANT FEED
2. DILUTION EXCLUDED BASIS

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEMA 10 .6 x .3 mm 100 mm TOP SIZE DATE: OCT /83
 CURVE 1 - YIELD / SG •
 CURVE 2 - CUM. FLOAT / ASH ○
 CURVE 3 - CUM. SINK / ASH ×
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ± 0.1 SG +

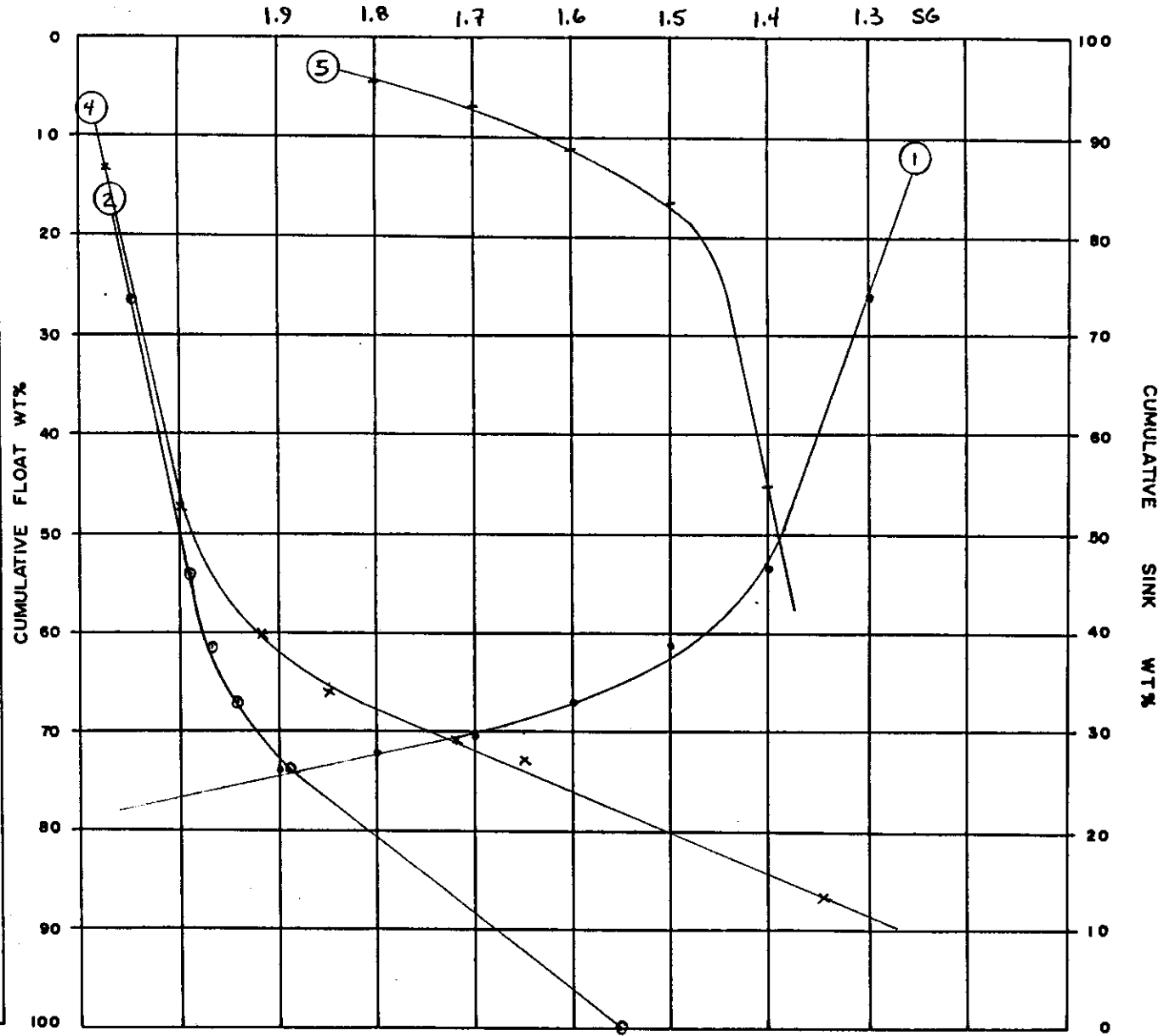


NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 2.2

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 10 1.3 x .15 mm 100mm TOP SIZE DATE: OCT/83
 CURVE 1 - YIELD/SG *
 CURVE 2 CUM. FLOAT / ASH O
 CURVE 3 CUM. SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ± 0.1 SG +

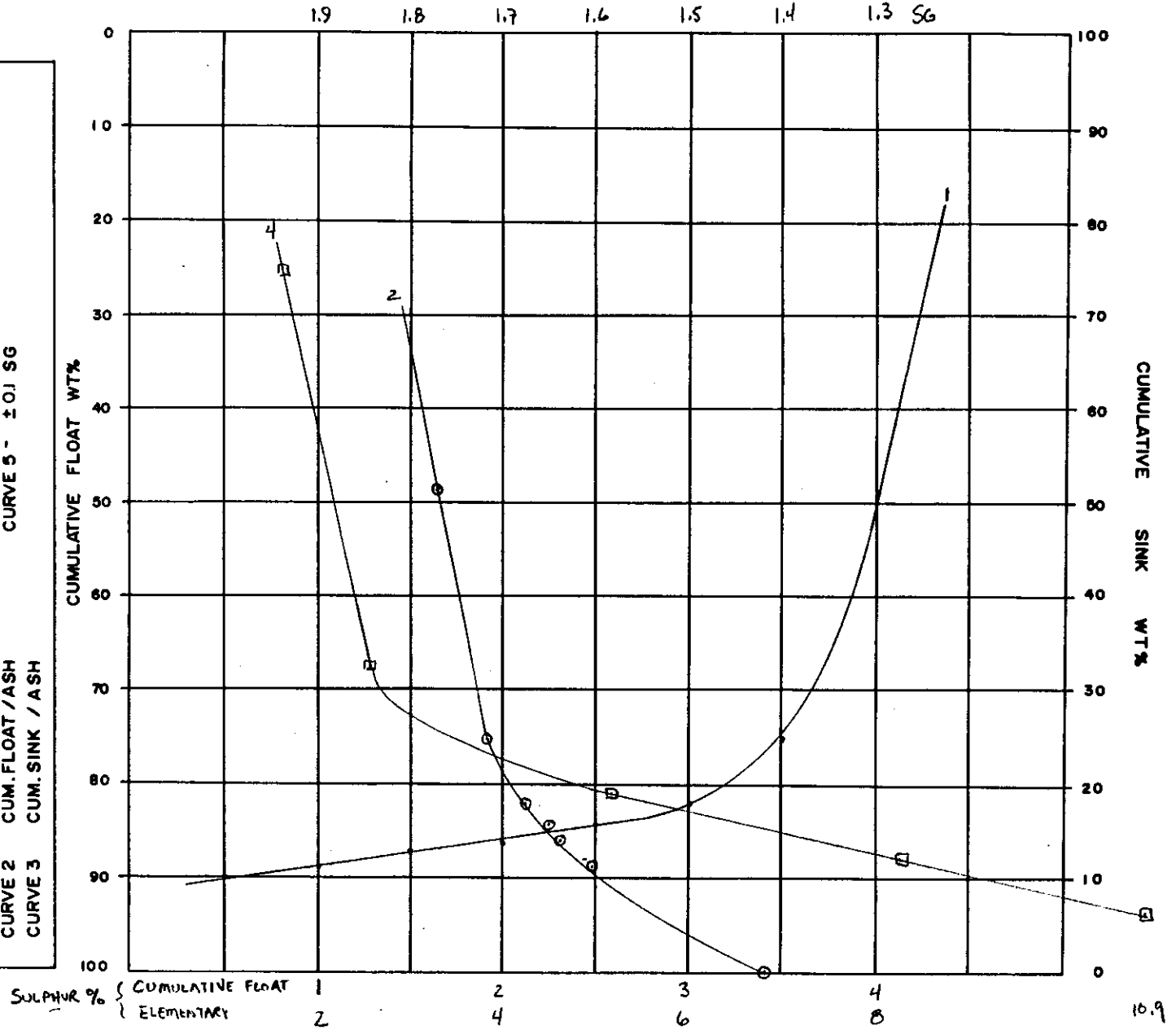
ASH % { CUMULATIVE FLOAT 5 10 15 20 25
 ELEMENTARY 10 20 30 40 50



NOTES

1. WASHABILITY CURVES
PREPARED WITH SULPHUR BASIS
(TOTAL)

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELUKWA SEAM 10 25 x 9.5 mm 100 mm Top Size DATE: Oct 1983
 CURVE 1 - YIELD/SG CURVE 4 - ELEMENTARY ASH
 CURVE 2 - CUM. FLOAT / ASH CURVE 5 - ± 0.1 SG
 CURVE 3 - CUM. SINK / ASH



DESCR. (ID): TELKWA

SEAM 10

100mm TOP SIZE

DATE: OCT/83

SIZE RANGE: .3 x .15mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS %		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC WT%	CUM. ASH %			
Float 1.30	26.3	2.6	26.3	2.6	1.78	1.78	13.2		
SINK 1.30 Float 1.35	15.4	6.4	41.7	4.0	1.93	1.84	34		
SINK 1.35 Float 1.40	12.1	10	53.8	5.4	2.19	1.92	47.8	45.6	1.4
SINK 1.40 Float 1.45	4.9	13.5	58.7	6.0	2.4	1.96	56.3	17.1	1.5
SINK 1.45 Float 1.50	2.7	18.1	61.4	6.6	2.95	2.00	60.1	11.6	1.6
SINK 1.50 Float 1.55	3.8	19.7	65.2	7.3	3.05	2.06	63.3	6.9	1.7
SINK 1.55 Float 1.60	1.8	25	67.0	7.8	3.69	2.10	66.1	4.7	1.8
SINK 1.60 Float 1.70	3.3	31	70.3	8.9	3.78	2.18	68.7		
SINK 1.70 Float 1.80	2	38.1	72.3	9.7	5.16	2.27	71.3		
SINK 1.80 Float 1.90	1.6	44.7	73.9	10.5	5.86	2.34	73.1		
SINK 1.90	26.1	75.8	100	27.5	12.0	4.86	87.0		

COMMENTS :

DESCRIPTION: TELKWA SEAM 10 100 mm TOP SIZE

DATE: OCT 83

SIZE RANGE: 0.6 x 0.3 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	WT %	ASH %			
FLOAT 1.30	30.8	2.5	30.8	2.5			15.4		
SINK 1.30 FLOAT 1.35	20.2	6.2	51	4.0			40.9		
SINK 1.35 FLOAT 1.40	9.7	10.2	60.7	5.0			55.9	46.6	1.4
SINK 1.40 FLOAT 1.45	5.1	13.3	65.8	5.6			63.2	16.2	1.5
SINK 1.45 FLOAT 1.50	2.5	18.8	68.3	6.1			67.1	9.9	1.6
SINK 1.50 FLOAT 1.55	3.4	20.9	71.7	6.8			70.0	5.3	1.7
SINK 1.55 FLOAT 1.60	2.0	25.6	73.7	7.3			72.7	3.6	1.8
SINK 1.60 FLOAT 1.70	2.6	31.3	76.3	8.1			75.0		
SINK 1.70 FLOAT 1.80	1.7	37.3	78.0	8.8			77.1		
SINK 1.80 FLOAT 1.90	1.2	43.6	79.2	9.3			78.6		
SINK 1.90	20.8	73.1	100	22.7			89.6		

COMMENTS:

DESCRIPTION: TELKWA SEAM 10 100 mm TOP SIZE

DATE: OCT/83

SIZE RANGE: 1 x .6 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS S%		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC. WT%	Cum ASH %			
FLOAT 1.30	29.1	3.1	29.1	3.1	1.59	1.59	14.6		
SINK 1.30 FLOAT 1.35	23.3	6.4	52.4	4.6	1.97	1.76	40.8		
SINK 1.35 FLOAT 1.40	14	10	66.4	5.7	1.98	1.81	59.4	52.6	1.4
SINK 1.40 FLOAT 1.45	4.4	14.2	70.8	6.2	2.37	1.84	68.6	14.4	1.5
SINK 1.45 FLOAT 1.50	3.3	18.3	74.1	6.8	2.27	1.86	72.5	7.8	1.6
SINK 1.50 FLOAT 1.55	3.4	22.3	77.5	7.5	2.9	1.91	75.8	4.2	1.7
SINK 1.55 FLOAT 1.60	1.2	26.8	78.7	7.8	3.66	1.93	78.1	3.3	1.8
SINK 1.60 FLOAT 1.70	2.1	31.9	80.8	8.4	4.52	2.00	79.8		
SINK 1.70 FLOAT 1.80	1.5	38.5	82.3	8.9	5.3	2.06	81.6		
SINK 1.80 FLOAT 1.90	1.3	45.5	83.6	9.5	6.83	2.13	83		
SINK 1.90	16.4	76.7	100	20.5	9.24	3.30	91.8		

COMMENTS :

DESCRIPTION: TELKWA SEAM 10 100 mm TOP SIZE

DATE: OCT/83

SIZE RANGE: 2x1 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS %		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	INC. WT %	CUM. ASH %			
FLOAT 1.30	27.7	3.1	27.7	3.1	1.64	1.64	13.9		
SINK 1.30 FLOAT 1.35	22.5	6.4	50.2	4.6	1.59	1.62	39		
SINK 1.35 FLOAT 1.40	14.7	10	64.9	5.8	1.73	1.64	57.6	54.8	1.4
SINK 1.40 FLOAT 1.45	6.4	14.2	71.3	6.6	2.38	1.71	68.1	15.3	1.5
SINK 1.45 FLOAT 1.50	2.7	18.3	74.0	7.0	3.08	1.76	72.7	7.0	1.6
SINK 1.50 FLOAT 1.55	2.3	22.3	76.3	7.5	3.65	1.82	75.2	4.1	1.7
SINK 1.55 FLOAT 1.60	1.5	26.8	77.8	7.8	4.43	1.87	77.1	3.1	1.8
SINK 1.60 FLOAT 1.70	2.1	31.9	79.9	8.5	5.4	1.96	78.9		
SINK 1.70 FLOAT 1.80	1.4	38.5	81.3	9.0	6.8	2.04	80.6		
SINK 1.80 FLOAT 1.90	1.2	45.5	82.5	9.5	8.25	2.13	81.9		
SINK 1.90	17.5	76.7	100	21.3	8.99	3.33	91.3		

COMMENTS:

DESCRIPTION: TELKWA SEAM 10 9.5x2mm ^{100mm} TOP SIZE

DATE: OCT./83

SIZE RANGE: 9.5x2mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	WT %	ASH %			
FLOAT 1.30	32.6	4.4	32.6	4.4			16.3		
SINK 1.30 FLOAT 1.35	19.3	7.2	51.9	5.4			42.3		
SINK 1.35 FLOAT 1.40	14.8	10.7	66.7	6.6			59.3	50.9	1.4
SINK 1.40 FLOAT 1.45	6.5	15.8	73.2	7.4			70.0	10.5	1.5
SINK 1.45 FLOAT 1.50	2.4	21.2	75.6	7.9			74.4	5.2	1.6
SINK 1.50 FLOAT 1.55	1.4	25.1	77.0	8.2			76.3	3.7	1.7
SINK 1.55 FLOAT 1.60	1.0	28.4	78.0	8.4			77.5	3.2	1.8
SINK 1.60 FLOAT 1.70	2.0	32.8	80.0	9.0			79.0		
SINK 1.70 FLOAT 1.80	1.1	39.4	81.1	9.5			80.6		
SINK 1.80 FLOAT 1.90	1.6	46.6	82.7	10.2			81.9		
SINK 1.90	17.3	78.4	100	22			91.4		

COMMENTS:

DESCRIPTION: TELKWA SEAM 10 100 mm TOP SIZE

DATE: Oct/83

SIZE RANGE: 25 x 9.5 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	WT %	ASH %			
FLOAT 1.30	49.3	5.6	49.3	5.6	1.65	1.65	24.6		
SINK 1.30 FLOAT 1.35	10.4	8.2	59.7	6.1	2.11	1.73	54.5		
SINK 1.35 FLOAT 1.40	15.3	11.9	75.0	7.3	2.60	1.91	67.4	36.3	1.4
SINK 1.40 FLOAT 1.45	4	17	79.0	7.7	3.85	2.01	77.0	10.4	1.5
SINK 1.45 FLOAT 1.50	3	20.8	82.0	8.2	5.16	2.12	80.5	4.8	1.6
SINK 1.50 FLOAT 1.55	1.3	25.3	83.3	8.5	5.11	2.17	82.7	3.2	1.7
SINK 1.55 FLOAT 1.60	1.1	27.1	84.4	8.7	7.09	2.23	83.9	4.9	1.8
SINK 1.60 FLOAT 1.70	1.8	33.5	86.2	9.2	6.74	2.33	85.3		
SINK 1.70 FLOAT 1.80	1.1	43.4	87.3	9.7	6.66	2.38	86.8		
SINK 1.80 FLOAT 1.90	1.5	47.7	88.8	10.3	8.28	2.48	88.1		
SINK 1.90	11.2	73.8	100	12.4	10.9	3.42	94.4		

COMMENTS:

DESCRIPTION: TELKWA SEAM 10 100 mm TOP SIZE

DATE: Oct/83

SIZE RANGE: 50x25 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	WT %	ASH %			
FLOAT 1.30	56	5.9	56.0	5.9			28.0		
SINK 1.30 FLOAT 1.35	9.3	8.7	65.3	6.3			60.6		
SINK 1.35 FLOAT 1.40	12.8	11.9	78.1	7.2			71.7	32.7	1.4
SINK 1.40 FLOAT 1.45	5.7	16.6	83.8	7.9			81.0	12.3	1.5
SINK 1.45 FLOAT 1.50	3.1	18.9	86.9	8.3			85.4	4.4	1.6
SINK 1.50 FLOAT 1.55	1.8	23.8	88.7	8.6			87.8	2.7	1.7
SINK 1.55 FLOAT 1.60	1	27.3	89.7	8.8			89.2	2.7	1.8
SINK 1.60 FLOAT 1.70	1.4	35.8	91.1	9.2			90.4		
SINK 1.70 FLOAT 1.80	1.1	44.8	92.2	9.6			91.6		
SINK 1.80 FLOAT 1.90	1.4	51.7	93.6	10.2			92.9		
SINK 1.90	6.4	71.8	100	14.2			96.8		

COMMENTS:

DESCRIPTION: TELKWA SEAM 10 100mm TOP SIZE

DATE: Oct/83.

SIZE RANGE: 100x50mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	WT %	ASH %			
FLOAT 1.30	47.3	5.5	47.3	5.5			23.7		
SINK 1.30 FLOAT 1.35	18.1	8.0	65.4	6.2			56.4		
SINK 1.35 FLOAT 1.40	18.1	11.8	83.5	7.4			74.5	45.4	1.4
SINK 1.40 FLOAT 1.45	6.0	15.9	89.5	8.0			86.5	11.5	1.5
SINK 1.45 FLOAT 1.50	3.1	19.5	92.6	8.4			91.1	4.4	1.6
SINK 1.50 FLOAT 1.55	0.9	22.0	93.5	8.5			93.1	2.8	1.7
SINK 1.55 FLOAT 1.60	1.5	27.5	95.0	8.8			94.3	2.3	1.8
SINK 1.60 FLOAT 1.70	2.0	35.7	97.0	9.4			96.0		
SINK 1.70 FLOAT 1.80	0.8	37.4	97.8	9.6			97.4		
SINK 1.80 FLOAT 1.90	1.5	52.0	99.3	10.2			98.6		
SINK 1.90	0.7	77.5	100	10.7			99.7		

COMMENTS:

CLIENT: CROMS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 10 BULK SAMPLE
 50MM X 0 ATTRITION & WASHABILITY
 LAB NO: 6466 -
 DATE: SEPTEMBER 23, 1983

100MM X 0 RAW COAL CRUSHED TO MINUS 50MM (IN JAW CRUSHER)
 ONE SPLIT FOR RAW SIZE ANALYSIS AND ANOTHER
 SPLIT FOR WET ATTRITION/WASHABILITY.
 8 X 50 KG. BATCHES OF 50MM X 0 RAW COAL TUMBLED FOR 80 SECONDS
 WITH 150 LITRES H₂O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (SD) IN COAL AS ZS = 0.101Z

SIZE AND RAW ANALYSIS, air dried basis - BEFORE ATTRITION

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE	
					WTZ	ASHZ
50 X 25	21.90	0.30	14.90	3.29	21.90	14.90
25 X 9.5	24.60	1.00	21.60	3.18	46.50	18.44
9.5 X 2.0	25.70	0.60	25.10	3.60	72.20	20.81
2.0 X 1.0	7.30	0.60	28.30	3.45	79.50	21.50
1.0 X 0.6	9.10	0.70	31.60	3.32	88.60	22.54
0.6 X 0.3	4.10	0.90	33.70	3.75	92.70	23.03
0.3 X 0.15	3.10	1.30	39.80	3.91	95.80	23.57
0.15 X 0	4.20	1.70	55.50	4.61	100.00	24.92

Zs = 3.45

SIZE AND RAW ANALYSIS, air dried basis - AFTER ATTRITION

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE	
					WTZ	ASHZ
50 X 25	17.70	1.50	13.00	3.31	17.70	13.00
25 X 9.5	19.80	1.50	17.40	3.26	37.50	15.32
9.5 X 2.0	26.30	0.90	21.40	3.46	63.80	17.83
2.0 X 1.0	7.70	0.90	21.20	3.25	71.50	18.19
1.0 X 0.6	7.00	0.80	19.30	3.48	78.50	18.29
0.6 X 0.3	4.30	1.20	22.30	3.79	82.80	18.50
0.3 X 0.15	2.80	1.20	27.70	3.85	85.60	18.80
0.15 X 0	14.40	0.80	66.40	3.24	100.00	25.65

Zs = 3.37

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 10 BULK SAMPLE
 50MM X 0 ATTRITION & WASHABILITY
 LAB NO: 6466 - ATTRITED
 DATE: SEPTEMBER 23, 1983

FLOAT-SINK ANALYSIS, air dried basis: + 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	34.80	4.70	1.72	34.80	4.70	1.72
1.30 - 1.35	18.60	6.40	1.93	53.40	5.29	1.79
1.35 - 1.40	22.10	10.30	2.87	75.50	6.76	2.11
1.40 - 1.45	8.80	15.30	3.61	84.30	7.65	2.27
1.45 - 1.50	3.00	19.98	5.71	87.30	8.07	2.38
1.50 - 1.55	1.30	22.70	7.67	88.60	8.29	2.46
1.55 - 1.60	1.80	27.90	7.72	90.40	8.68	2.57
1.60 - 1.70	2.10	34.90	6.59	92.50	9.27	2.66
1.70 - 1.80	1.30	43.80	5.80	93.80	9.75	2.70
1.80 - 1.90	1.50	48.40	8.51	95.30	10.36	2.79
1.90 - SINK	4.70	65.80	13.80	100.00	12.96	3.31

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	34.30	5.10	1.59	34.30	5.10	1.59
1.30 - 1.35	21.80	7.10	1.91	56.10	5.88	1.71
1.35 - 1.40	17.70	10.40	2.45	73.80	6.96	1.89
1.40 - 1.45	6.00	15.40	3.33	79.80	7.60	2.00
1.45 - 1.50	3.10	19.60	4.69	82.90	8.05	2.10
1.50 - 1.55	1.20	24.00	5.63	84.10	8.27	2.15
1.55 - 1.60	1.00	27.30	6.84	85.10	8.50	2.21
1.60 - 1.70	1.30	32.20	8.06	86.40	8.85	2.29
1.70 - 1.80	0.80	41.80	7.45	87.20	9.16	2.34
1.80 - 1.90	1.20	47.70	9.03	88.40	9.68	2.43
1.90 - SINK	11.60	73.20	18.80	100.00	17.05	3.31

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 10 BULK SAMPLE
 50MM X 0 ATTRITION & WASHABILITY
 LAB NO: 6466 - ATTRITED
 DATE: SEPTEMBER 23, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	33.40	4.50	1.61	33.40	4.50	1.61
1.30 - 1.35	25.20	7.80	1.90	58.60	5.92	1.73
1.35 - 1.40	10.30	12.00	2.37	68.90	6.83	1.83
1.40 - 1.45	5.20	16.10	3.22	74.10	7.48	1.93
1.45 - 1.50	2.50	20.50	4.11	76.60	7.90	2.00
1.50 - 1.55	1.50	24.30	4.98	78.10	8.22	2.06
1.55 - 1.60	1.40	28.80	5.72	79.50	8.58	2.12
1.60 - 1.70	1.50	33.70	7.05	81.00	9.05	2.21
1.70 - 1.80	1.20	39.30	8.57	82.20	9.49	2.30
1.80 - 1.90	1.40	46.10	9.28	83.60	10.10	2.42
1.90 - SINK	16.40	77.80	8.43	100.00	21.20	3.41

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	26.00	3.00	1.65	26.00	3.00	1.65
1.30 - 1.35	25.60	6.40	1.76	51.60	4.69	1.70
1.35 - 1.40	15.10	10.00	2.07	66.70	5.89	1.79
1.40 - 1.45	7.10	14.90	2.66	73.80	6.76	1.87
1.45 - 1.50	1.90	19.30	3.35	75.70	7.07	1.91
1.50 - 1.55	2.00	22.60	3.85	77.70	7.47	1.96
1.55 - 1.60	1.40	26.90	4.60	79.10	7.81	2.01
1.60 - 1.70	2.00	32.20	5.70	81.10	8.42	2.10
1.70 - 1.80	1.30	39.30	7.34	82.40	8.90	2.18
1.80 - 1.90	1.20	45.80	7.94	83.60	9.43	2.26
1.90 - SINK	16.40	77.50	7.95	100.00	20.60	3.19

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 10 BULK SAMPLE
 50MM X 0 ATTRITION & WASHABILITY
 LAB NO: 6466 - ATTRITED
 DATE: SEPTEMBER 23, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	34.80	3.00	1.69	34.80	3.00	1.69
1.30 - 1.35	21.10	6.90	1.84	55.90	4.47	1.75
1.35 - 1.40	13.10	10.40	2.10	69.00	5.60	1.81
1.40 - 1.45	5.10	15.10	2.62	74.10	6.25	1.87
1.45 - 1.50	2.80	18.90	3.09	76.90	6.71	1.91
1.50 - 1.55	1.90	23.20	3.54	78.80	7.11	1.95
1.55 - 1.60	1.50	27.00	4.33	80.30	7.48	2.00
1.60 - 1.70	2.10	32.50	5.05	82.40	8.12	2.08
1.70 - 1.80	1.40	39.40	6.32	83.80	8.64	2.15
1.80 - 1.90	1.10	45.40	7.27	84.90	9.12	2.21
1.90 - SINK	15.10	73.30	9.26	100.00	18.81	3.28

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	29.80	2.50	1.68	29.80	2.50	1.68
1.30 - 1.35	20.00	6.20	1.79	49.80	3.99	1.72
1.35 - 1.40	10.70	9.70	2.05	60.50	5.00	1.78
1.40 - 1.45	5.90	12.90	2.29	66.40	5.70	1.83
1.45 - 1.50	2.80	16.20	2.58	69.20	6.12	1.86
1.50 - 1.55	3.00	20.70	3.20	72.20	6.73	1.91
1.55 - 1.60	2.40	24.70	3.53	74.60	7.31	1.97
1.60 - 1.70	2.30	31.50	4.33	76.90	8.03	2.04
1.70 - 1.80	1.50	38.00	5.44	78.40	8.60	2.10
1.80 - 1.90	1.40	44.00	6.32	79.80	9.23	2.18
1.90 - SINK	20.20	74.10	9.18	100.00	22.33	3.59

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKHA SEAM 10 BULK SAMPLE
 50MM X 0 ATTRITION & WASHABILITY
 LAB NO: 6646 - ATTRITED COAL
 DATE: SEPTEMBER 23, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	26.90	2.70	1.64	26.90	2.70	1.64
1.30 - 1.35	16.60	6.00	1.82	43.50	3.96	1.71
1.35 - 1.40	9.50	9.70	2.01	53.00	4.99	1.76
1.40 - 1.45	5.90	12.50	2.24	58.90	5.74	1.81
1.45 - 1.50	3.20	15.60	2.62	62.10	6.25	1.85
1.50 - 1.55	2.00	19.10	2.73	64.10	6.65	1.88
1.55 - 1.60	2.20	22.30	3.40	66.30	7.17	1.93
1.60 - 1.70	3.20	28.00	3.94	69.50	8.13	2.02
1.70 - 1.80	2.40	35.10	4.59	71.90	9.03	2.11
1.80 - 1.90	1.80	42.60	5.61	73.70	9.85	2.19
1.90 - SINK	26.30	76.20	8.90	100.00	27.30	3.96

FROTH FLOTATION TEST, air dried basis: 0.3MM X 0.15MM

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	59.30	13.20	2.42	59.30	13.20	2.42
STAGE 2	6.90	18.00	2.49	66.20	13.70	2.43
TAILINGS	33.80	54.20	6.65	100.00	27.39	3.85

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	26.90	32.50	2.46	26.90	32.50	2.46
STAGE 2	7.20	61.80	2.28	34.10	38.69	2.42
TAILINGS	65.90	78.90	3.95	100.00	65.19	3.43

F.F. PARAMETERS:

- 10% PULP DENSITY
- 1 MINUTE CONDITIONING WITH 0.5LB/TONNE OF 4:1 KEROSENE:MIBC
- STAGE 1 = 1ST MINUTE FROTH
- STAGE 2 = 2ND MINUTE FROTH

Birtley Coal
& Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 9 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5627
 DATE: NOVEMBER 18, 1983

12 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBLED FOR 55 SECONDS
 WITH 150 LITRES H2O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (SD4) IN COAL AS SZ = 0.064

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE		
					WTZ	ASHZ	SZ
+ 50	18.20	1.70	8.20	1.75	18.20	8.20	1.75
50 X 25	11.80	1.60	10.40	2.22	30.00	9.07	1.93
25 X 9.5	14.30	1.50	16.40	2.62	44.30	11.43	2.16
9.5 X 2.0	22.30	1.50	21.40	2.14	66.60	14.77	2.15
2.0 X 1.0	7.30	1.40	22.40	2.26	73.90	15.52	2.16
1.0 X 0.6	7.70	1.10	17.50	2.50	81.60	15.71	2.19
0.6 X 0.3	4.30	1.00	25.40	2.68	85.90	16.20	2.22
0.3 X 0.15	2.90	1.00	31.20	3.20	88.80	16.69	2.25
0.15 X 0	11.20	0.90	65.10	2.19	100.00	22.11	2.24

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	40.10	3.80	1.56	40.10	3.80	1.56
1.30 - 1.35	37.20	8.90	1.69	77.30	6.25	1.62
1.35 - 1.40	17.10	13.10	1.99	94.40	7.49	1.69
1.40 - 1.45	4.20	18.10	2.28	98.60	7.95	1.71
1.45 - 1.50	0.90	22.30	3.43	99.50	8.08	1.73
1.50 - 1.55	0.20	25.40	6.18	99.70	8.11	1.74
1.55 - 1.60	0.10	31.40	9.86	99.80	8.13	1.75
1.60 - 1.70	0.20	41.90	2.91	100.00	8.20	1.75
1.70 - SINK	0.00	—	—	100.00	—	—

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELJWA SEAM 9 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5627
 DATE: NOVEMBER 18, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	45.90	3.70	1.60	45.90	3.70	1.60
1.30 - 1.35	28.90	9.10	1.93	74.80	5.79	1.73
1.35 - 1.40	12.60	13.40	1.80	87.40	6.88	1.74
1.40 - 1.45	4.30	19.20	2.58	91.70	7.46	1.78
1.45 - 1.50	3.30	24.10	3.44	95.00	8.04	1.84
1.50 - 1.55	0.80	30.60	1.76	95.80	8.23	1.83
1.55 - 1.60	0.60	35.80	2.60	96.40	8.40	1.84
1.60 - 1.70	0.50	37.60	3.73	96.90	8.55	1.85
1.70 - 1.80	0.30	46.10	4.42	97.20	8.67	1.86
1.80 - 1.90	0.10	57.30	1.55	97.30	8.72	1.86
1.90 - SINK	2.70	72.40	15.40	100.00	10.44	2.22

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	45.30	3.60	1.49	45.30	3.60	1.49
1.30 - 1.35	24.70	8.50	1.89	70.00	5.33	1.63
1.35 - 1.40	8.90	13.60	2.14	78.90	6.26	1.69
1.40 - 1.45	4.40	18.10	2.73	83.30	6.89	1.74
1.45 - 1.50	2.80	22.70	3.50	86.10	7.40	1.80
1.50 - 1.55	1.20	27.50	3.78	87.30	7.68	1.83
1.55 - 1.60	0.80	31.30	4.57	88.10	7.89	1.85
1.60 - 1.70	0.80	37.50	5.18	88.90	8.16	1.88
1.70 - 1.80	0.50	44.30	5.75	89.40	8.36	1.90
1.80 - 1.90	0.30	51.10	6.13	89.70	8.50	1.92
1.90 - SINK	10.30	80.60	7.60	100.00	15.93	2.50

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WESTERN STEEL INDUSTRIES LTD.

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELIKWA SEAM 9 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5627
 DATE: NOVEMBER 18, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	48.50	3.20	1.47	48.50	3.20	1.47
1.30 - 1.35	18.00	8.20	1.97	66.50	4.55	1.61
1.35 - 1.40	5.30	13.10	2.30	71.80	5.18	1.66
1.40 - 1.45	3.50	16.50	2.86	75.30	5.71	1.71
1.45 - 1.50	2.20	20.50	3.58	77.50	6.13	1.77
1.50 - 1.55	1.50	24.90	4.15	79.00	6.49	1.81
1.55 - 1.60	0.80	30.20	4.65	79.80	6.72	1.84
1.60 - 1.70	1.00	34.80	5.28	80.80	7.07	1.88
1.70 - 1.80	0.60	42.10	5.69	81.40	7.33	1.91
1.80 - 1.90	0.50	51.20	5.73	81.90	7.60	1.93
1.90 - SINK	18.10	84.00	3.86	100.00	21.43	2.28

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	49.30	2.80	1.44	49.30	2.80	1.44
1.30 - 1.35	16.60	7.50	1.99	65.90	3.98	1.58
1.35 - 1.40	5.20	12.10	2.45	71.10	4.58	1.64
1.40 - 1.45	3.00	15.40	2.83	74.10	5.02	1.69
1.45 - 1.50	2.20	19.70	3.35	76.30	5.44	1.74
1.50 - 1.55	1.30	24.20	4.24	77.60	5.75	1.78
1.55 - 1.60	0.90	28.50	4.61	78.50	6.01	1.81
1.60 - 1.70	1.00	34.70	4.91	79.50	6.37	1.85
1.70 - 1.80	0.60	42.90	5.66	80.10	6.65	1.88
1.80 - 1.90	0.50	48.20	5.37	80.60	6.91	1.90
1.90 - SINK	19.40	84.00	3.73	100.00	21.86	2.26

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELIKWA SEAM 9 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5627
 DATE: NOVEMBER 18, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	49.80	2.40	1.40	49.80	2.40	1.40
1.30 - 1.35	14.90	6.40	1.83	64.70	3.32	1.50
1.35 - 1.40	8.30	9.60	2.07	73.00	4.04	1.56
1.40 - 1.45	5.20	13.70	2.50	78.20	4.68	1.63
1.45 - 1.50	2.30	20.00	3.03	80.50	5.12	1.67
1.50 - 1.55	1.50	22.30	3.50	82.00	5.43	1.70
1.55 - 1.60	1.00	26.80	3.99	83.00	5.69	1.73
1.60 - 1.70	1.30	32.60	4.51	84.30	6.10	1.77
1.70 - 1.80	0.80	40.00	4.96	85.10	6.42	1.80
1.80 - 1.90	0.60	47.80	5.82	85.70	6.71	1.83
1.90 - SINK	14.30	80.40	6.05	100.00	17.25	2.43

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	40.70	2.30	1.39	40.70	2.30	1.39
1.30 - 1.35	12.40	5.60	1.64	53.10	3.07	1.45
1.35 - 1.40	8.90	9.00	1.88	62.00	3.92	1.51
1.40 - 1.45	4.80	13.10	2.23	66.80	4.58	1.56
1.45 - 1.50	2.10	17.50	2.58	68.90	4.98	1.59
1.50 - 1.55	1.50	21.60	3.16	70.40	5.33	1.63
1.55 - 1.60	1.10	25.90	3.49	71.50	5.65	1.66
1.60 - 1.70	1.50	31.40	3.99	73.00	6.17	1.70
1.70 - 1.80	1.00	39.10	4.62	74.00	6.62	1.74
1.80 - 1.90	0.60	46.40	5.14	74.60	6.94	1.77
1.90 - SINK	25.40	82.80	5.32	100.00	26.21	2.67

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELIKWA SEAM 9 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5627
 DATE: NOVEMBER 18, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	35.40	2.10	1.36	35.40	2.10	1.36
1.30 - 1.35	11.50	5.20	1.45	46.90	2.86	1.38
1.35 - 1.40	6.10	8.10	1.65	53.00	3.46	1.41
1.40 - 1.45	6.00	10.90	1.83	59.00	4.22	1.46
1.45 - 1.50	3.20	15.50	2.16	62.20	4.80	1.49
1.50 - 1.55	1.70	20.80	2.70	63.90	5.23	1.52
1.55 - 1.60	1.50	24.40	3.02	65.40	5.67	1.56
1.60 - 1.70	1.40	30.30	3.67	66.80	6.18	1.60
1.70 - 1.80	1.30	38.20	4.36	68.10	6.79	1.65
1.80 - 1.90	0.70	45.60	4.75	68.80	7.19	1.69
1.90 - SINK	31.20	83.40	5.89	100.00	30.97	3.00

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	30.90	29.80	2.17	30.90	29.80	2.17
STAGE 2	7.70	58.00	1.94	38.60	35.43	2.12
TAILINGS	61.40	83.60	2.23	100.00	65.00	2.19

PULP DENSITY = 10Z
 REAGENT/DOSAGE = 4:1 = KEROSENE:MIBC/0.50 LB/TONNE
 CONDITIONING = 60 SECONDS
 STAGE I = FIRST MINUTE FROTH
 STAGE II = SECOND MINUTE FROTH

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 9 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5627
 DATE: NOVEMBER 18, 1983

12 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBLED FOR 55 SECONDS
 WITH 150 LITRES H₂O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (SD4) IN COAL AS SZ = 0.064

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE		
					WTZ	ASHZ	SZ
+ 50	18.20	1.70	8.20	1.75	18.20	8.20	1.75
50 X 25	11.80	1.60	10.40	2.22	30.00	9.07	1.93
25 X 9.5	14.30	1.50	16.40	2.62	44.30	11.43	2.16
9.5 X 2.0	22.30	1.50	21.40	2.14	66.60	14.77	2.15
2.0 X 1.0	7.30	1.40	22.40	2.26	73.90	15.52	2.16
X 0.6	7.70	1.10	17.50	2.50	81.60	15.71	2.19
0.6 X 0.3	4.30	1.00	25.40	2.68	85.90	16.20	2.22
0.3 X 0.15	2.90	1.00	31.20	3.20	88.80	16.69	2.25
0.15 X 0	11.20	0.90	65.10	2.19	100.00	22.11	2.24

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	40.16	3.80	1.56	40.10	3.80	1.56
1.30 - 1.35	37.20	8.90	1.69	77.30	6.25	1.62
1.35 - 1.40	17.10	13.10	1.99	94.40	7.49	1.69
1.40 - 1.45	4.20	18.10	2.28	98.60	7.95	1.71
1.45 - 1.50	0.90	22.30	3.43	99.50	8.08	1.73
1.50 - 1.55	0.20	25.40	6.18	99.70	8.11	1.74
1.55 - 1.60	0.10	31.40	9.86	99.80	8.13	1.75
1.60 - 1.70	0.20	41.90	2.91	100.00	8.20	1.75
1.70 - SINK	0.00	—	—	100.00	—	—

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 9 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5627
 DATE: NOVEMBER 18, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	45.90	3.70	1.60	45.90	3.70	1.60
1.30 - 1.35	28.90	9.10	1.93	74.80	5.79	1.73
1.35 - 1.40	12.60	13.40	1.80	87.40	6.88	1.74
1.40 - 1.45	4.30	19.20	2.58	91.70	7.46	1.78
1.45 - 1.50	3.30	24.10	3.44	95.00	8.04	1.84
1.50 - 1.55	0.80	30.60	1.76	95.80	8.23	1.83
1.55 - 1.60	0.60	35.80	2.60	96.40	8.40	1.84
1.60 - 1.70	0.50	37.60	3.73	96.90	8.55	1.85
1.70 - 1.80	0.30	46.10	4.42	97.20	8.67	1.86
1.80 - 1.90	0.10	57.30	1.55	97.30	8.72	1.86
1.90 - SINK	2.70	72.40	15.40	100.00	10.44	2.22

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	45.30	3.60	1.49	45.30	3.60	1.49
1.30 - 1.35	24.70	8.50	1.89	70.00	5.33	1.63
1.35 - 1.40	8.90	13.60	2.14	78.90	6.26	1.69
1.40 - 1.45	4.40	18.10	2.73	83.30	6.89	1.74
1.45 - 1.50	2.80	22.70	3.50	86.10	7.40	1.80
1.50 - 1.55	1.20	27.50	3.78	87.30	7.68	1.83
1.55 - 1.60	0.80	31.30	4.57	88.10	7.89	1.85
1.60 - 1.70	0.80	37.50	5.18	88.90	8.16	1.88
1.70 - 1.80	0.50	44.30	5.75	89.40	8.36	1.90
1.80 - 1.90	0.30	51.10	6.13	89.70	8.50	1.92
1.90 - SINK	10.30	80.60	7.60	100.00	15.93	2.50

CLIENT: CROMS NEST RESOURCES LIMITED
 PROJECT: TELKHA SEAM 9 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5627
 DATE: NOVEMBER 18, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	NTZ	ASHZ	SZ	CUMULATIVE		
				NTZ	ASHZ	SZ
FLOAT - 1.30	48.50	3.20	1.47	48.50	3.20	1.47
1.30 - 1.35	18.00	8.20	1.97	66.50	4.55	1.61
1.35 - 1.40	5.30	13.10	2.30	71.80	5.18	1.66
1.40 - 1.45	3.50	16.50	2.86	75.30	5.71	1.71
1.45 - 1.50	2.20	20.50	3.58	77.50	6.13	1.77
1.50 - 1.55	1.50	24.90	4.15	79.00	6.49	1.81
1.55 - 1.60	0.80	30.20	4.65	79.80	6.72	1.84
1.60 - 1.70	1.00	34.80	5.28	80.80	7.07	1.88
1.70 - 1.80	0.60	42.10	5.69	81.40	7.33	1.91
1.80 - 1.90	0.50	51.20	5.73	81.90	7.60	1.93
1.90 - SINK	18.10	84.00	3.86	100.00	21.43	2.28

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	NTZ	ASHZ	SZ	CUMULATIVE		
				NTZ	ASHZ	SZ
FLOAT - 1.30	49.30	2.80	1.44	49.30	2.80	1.44
1.30 - 1.35	16.60	7.50	1.99	65.90	3.98	1.58
1.35 - 1.40	5.20	12.10	2.45	71.10	4.58	1.64
1.40 - 1.45	3.00	15.40	2.83	74.10	5.02	1.69
1.45 - 1.50	2.20	19.70	3.35	76.30	5.44	1.74
1.50 - 1.55	1.30	24.20	4.24	77.60	5.75	1.78
1.55 - 1.60	0.90	28.50	4.61	78.50	6.01	1.81
1.60 - 1.70	1.00	34.70	4.91	79.50	6.37	1.85
1.70 - 1.80	0.60	42.90	5.66	80.10	6.65	1.88
1.80 - 1.90	0.50	48.20	5.37	80.60	6.91	1.90
1.90 - SINK	19.40	84.00	3.73	100.00	21.86	2.26

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELUKA SEAM 9 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5627
 DATE: NOVEMBER 18, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	49.80	2.40	1.40	49.80	2.40	1.40
1.30 - 1.35	14.90	6.40	1.83	64.70	3.32	1.50
1.35 - 1.40	8.30	9.60	2.07	73.00	4.04	1.56
1.40 - 1.45	5.20	13.70	2.50	78.20	4.68	1.63
1.45 - 1.50	2.30	20.00	3.03	80.50	5.12	1.67
1.50 - 1.55	1.50	22.30	3.50	82.00	5.43	1.70
1.55 - 1.60	1.00	26.80	3.99	83.00	5.69	1.73
1.60 - 1.70	1.30	32.60	4.51	84.30	6.10	1.77
1.70 - 1.80	0.80	40.00	4.96	85.10	6.42	1.80
1.80 - 1.90	0.60	47.80	5.82	85.70	6.71	1.83
1.90 - SINK	14.30	80.40	6.65	100.00	17.25	2.43

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	40.70	2.30	1.39	40.70	2.30	1.39
1.30 - 1.35	12.40	5.60	1.64	53.10	3.07	1.45
1.35 - 1.40	8.90	9.00	1.88	62.00	3.92	1.51
1.40 - 1.45	4.80	13.10	2.23	66.80	4.58	1.56
1.45 - 1.50	2.10	17.50	2.58	68.90	4.98	1.59
1.50 - 1.55	1.50	21.60	3.16	70.40	5.33	1.63
1.55 - 1.60	1.10	25.90	3.49	71.50	5.65	1.66
1.60 - 1.70	1.50	31.40	3.99	73.00	6.17	1.70
1.70 - 1.80	1.00	39.10	4.62	74.00	6.62	1.74
1.80 - 1.90	0.60	46.40	5.14	74.60	6.94	1.77
1.90 - SINK	25.40	82.80	5.32	100.00	26.21	2.67

CLIENT: CROMS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 9 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5627
 DATE: NOVEMBER 18, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	35.40	2.10	1.36	35.40	2.10	1.36
1.30 - 1.35	11.50	5.20	1.45	46.90	2.86	1.38
1.35 - 1.40	6.10	8.10	1.65	53.00	3.46	1.41
1.40 - 1.45	6.00	10.90	1.83	59.00	4.22	1.46
1.45 - 1.50	3.20	15.50	2.16	62.20	4.80	1.49
1.50 - 1.55	1.70	20.80	2.70	63.90	5.23	1.52
1.55 - 1.60	1.50	24.40	3.02	65.40	5.67	1.56
1.60 - 1.70	1.40	30.30	3.67	66.80	6.18	1.60
1.70 - 1.80	1.30	38.20	4.36	68.10	6.79	1.65
1.80 - 1.90	0.70	45.60	4.75	68.80	7.19	1.69
1.90 - SINK	31.20	83.40	5.89	100.00	30.97	3.00

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	30.90	29.80	2.17	30.90	29.80	2.17
STAGE 2	7.70	58.00	1.94	38.60	35.43	2.12
TAILINGS	61.40	83.60	2.23	100.00	65.00	2.19

PULP DENSITY = 10Z
 REAGENT/DOSAGE = 4:1 = KEROSENE:MIBC/0.50 LB/TONNE
 CONDITIONING = 60 SECONDS
 STAGE I = FIRST MINUTE FROTH
 STAGE II = SECOND MINUTE FROTH

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELUKA SEAM B BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5610
 DATE: NOVEMBER 28, 1983

2 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBELED FOR 55 SECONDS
 WITH 150 LITRES H2O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (SD4) IN COAL AS SZ = 0.062

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE		
					WTZ	ASHZ	SZ
+ 50	21.50	2.00	11.30	1.27	21.50	11.30	1.27
50 X 25	12.70	1.90	14.40	1.38	34.20	12.45	1.31
25 X 9.5	16.20	1.90	18.20	2.28	50.40	14.30	1.62
9.5 X 2.0	21.40	1.70	22.60	1.99	71.80	16.77	1.73
2.0 X 1.0	6.40	1.70	20.10	1.78	78.20	17.05	1.74
1 X 0.6	7.00	0.90	17.60	1.66	85.20	17.09	1.73
0.6 X 0.3	3.90	1.10	24.30	1.79	89.10	17.41	1.73
0.3 X 0.15	2.80	1.20	27.20	1.93	91.90	17.70	1.74
0.15 X 0	8.10	1.20	54.00	1.53	100.00	20.64	1.72

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	33.40	4.00	1.17	33.40	4.00	1.17
1.30 - 1.35	21.90	6.90	1.37	55.30	5.15	1.25
1.35 - 1.40	22.20	10.70	1.04	77.50	6.74	1.19
1.40 - 1.45	8.90	15.10	0.92	86.40	7.60	1.16
1.45 - 1.50	8.00	20.60	0.98	94.40	8.70	1.15
1.50 - 1.55	1.20	27.60	0.81	95.60	8.94	1.14
1.55 - 1.60	0.80	29.70	1.01	96.40	9.11	1.14
1.60 - 1.70	0.60	33.90	1.65	97.00	9.26	1.14
1.70 - 1.80	0.70	40.40	4.20	97.70	9.49	1.17
1.80 - 1.90	0.20	48.00	3.91	97.90	9.57	1.17
1.90 - SINK	2.10	66.50	5.90	100.00	10.76	1.27

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELUKA SEAM B BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5610
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WT%	ASH%	SZ	CUMULATIVE		
				WT%	ASH%	SZ
FLOAT - 1.30	28.00	3.80	1.11	28.00	3.80	1.11
1.30 - 1.35	35.40	7.90	1.09	63.40	6.09	1.10
1.35 - 1.40	10.60	12.30	1.04	74.00	6.98	1.09
1.40 - 1.45	7.40	15.40	1.28	81.40	7.74	1.11
1.45 - 1.50	6.90	21.10	1.57	88.30	8.79	1.14
1.50 - 1.55	2.30	26.70	1.72	90.60	9.24	1.16
1.55 - 1.60	1.50	30.20	1.39	92.10	9.58	1.16
1.60 - 1.70	1.90	38.20	2.35	94.00	10.16	1.19
1.70 - 1.80	0.90	42.00	4.77	94.90	10.46	1.22
1.80 - 1.90	0.60	47.20	2.04	95.50	10.70	1.23
1.90 - SINK	4.50	81.90	4.56	100.00	13.90	1.38

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WT%	ASH%	SZ	CUMULATIVE		
				WT%	ASH%	SZ
FLOAT - 1.30	39.30	4.30	1.04	39.30	4.30	1.04
1.30 - 1.35	13.50	7.80	1.20	52.80	5.19	1.08
1.35 - 1.40	15.80	10.70	1.04	68.60	6.46	1.07
1.40 - 1.45	8.40	15.80	1.24	77.00	7.48	1.09
1.45 - 1.50	4.20	20.90	1.60	81.20	8.18	1.12
1.50 - 1.55	2.20	26.40	2.23	83.40	8.66	1.15
1.55 - 1.60	1.60	30.20	2.08	85.00	9.06	1.16
1.60 - 1.70	2.30	37.70	2.06	87.30	9.82	1.19
1.70 - 1.80	1.50	44.90	2.28	88.80	10.41	1.21
1.80 - 1.90	0.90	50.50	2.96	89.70	10.81	1.22
1.90 - SINK	10.30	80.80	7.94	100.00	18.02	1.91

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELIKWA SEAM 8 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5610
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	29.60	2.50	1.14	29.60	2.50	1.14
1.30 - 1.35	29.20	6.90	1.12	58.80	4.69	1.13
1.35 - 1.40	8.50	8.90	1.47	67.30	5.22	1.17
1.40 - 1.45	3.20	12.60	1.08	70.50	5.55	1.17
1.45 - 1.50	4.60	18.80	1.28	75.10	6.36	1.18
1.50 - 1.55	2.10	24.70	1.64	77.20	6.86	1.19
1.55 - 1.60	1.30	30.00	1.92	78.50	7.25	1.20
1.60 - 1.70	1.40	36.40	2.21	79.90	7.76	1.22
1.70 - 1.80	1.20	44.50	2.37	81.10	8.30	1.24
1.80 - 1.90	0.90	50.90	2.73	82.00	8.77	1.25
1.90 - SINK	18.00	83.00	4.33	100.00	22.13	1.81

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	33.40	2.00	1.14	33.40	2.00	1.14
1.30 - 1.35	18.90	5.20	1.14	52.30	3.16	1.14
1.35 - 1.40	12.50	8.20	1.04	64.80	4.13	1.12
1.40 - 1.45	9.80	11.60	1.02	74.60	5.11	1.11
1.45 - 1.50	3.60	17.60	1.21	78.20	5.69	1.11
1.50 - 1.55	2.00	23.10	1.48	80.20	6.12	1.12
1.55 - 1.60	0.80	28.90	1.85	81.00	6.34	1.13
1.60 - 1.70	1.40	34.70	2.34	82.40	6.83	1.15
1.70 - 1.80	0.90	43.60	2.14	83.30	7.22	1.16
1.80 - 1.90	1.10	58.70	2.27	84.40	7.89	1.17
1.90 - SINK	15.60	82.70	3.48	100.00	19.56	1.53

Birtley Coal
 & Minerals Testing

A DIVISION OF BIRTLLEY & MINERALS TESTING LTD

CLIENT: CROWNS NEST RESOURCES LIMITED
 PROJECT: TELUKA SEAM B BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5610
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	34.00	1.90	1.05	34.00	1.90	1.05
1.30 - 1.35	18.50	4.60	1.15	52.50	2.85	1.09
1.35 - 1.40	12.70	7.80	1.08	65.20	3.82	1.08
1.40 - 1.45	9.50	11.30	1.09	74.70	4.77	1.08
1.45 - 1.50	4.30	15.80	1.08	79.00	5.37	1.08
1.50 - 1.55	2.50	21.20	1.28	81.50	5.85	1.09
1.55 - 1.60	1.30	26.60	1.61	82.80	6.18	1.10
1.60 - 1.70	1.50	33.30	1.87	84.30	6.66	1.11
1.70 - 1.80	1.00	41.30	2.09	85.30	7.07	1.12
1.80 - 1.90	0.70	49.70	2.35	86.00	7.41	1.13
1.90 - SINK	14.00	80.20	4.45	100.00	17.60	1.60

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	33.00	2.20	1.07	33.00	2.20	1.07
1.30 - 1.35	15.80	5.90	1.16	48.80	3.40	1.10
1.35 - 1.40	10.20	7.50	1.20	59.00	4.11	1.12
1.40 - 1.45	7.70	11.50	1.05	66.70	4.96	1.11
1.45 - 1.50	3.50	15.00	1.13	70.20	5.46	1.11
1.50 - 1.55	3.00	20.00	1.24	73.20	6.06	1.12
1.55 - 1.60	1.90	25.50	1.39	75.10	6.55	1.12
1.60 - 1.70	1.70	32.40	1.69	76.80	7.12	1.13
1.70 - 1.80	1.20	41.00	1.92	78.00	7.64	1.15
1.80 - 1.90	0.80	49.30	2.02	78.80	8.07	1.16
1.90 - SINK	21.20	80.70	3.59	100.00	23.46	1.67

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELJWA SEAM B BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5610
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	26.20	1.90	1.06	26.20	1.90	1.06
1.30 - 1.35	16.00	4.70	1.09	42.20	2.96	1.07
1.35 - 1.40	8.30	7.10	1.02	50.50	3.64	1.06
1.40 - 1.45	9.10	9.70	1.01	59.60	4.57	1.05
1.45 - 1.50	5.50	14.20	0.96	65.10	5.38	1.05
1.50 - 1.55	2.90	18.40	1.14	68.00	5.94	1.05
1.55 - 1.60	2.60	23.00	1.24	70.60	6.56	1.06
1.60 - 1.70	2.30	29.40	1.41	72.90	7.28	1.07
1.70 - 1.80	1.50	36.60	1.58	74.40	7.88	1.08
1.80 - 1.90	1.40	47.90	1.97	75.80	8.62	1.10
1.90 - SINK	24.20	82.90	4.28	100.00	26.59	1.87

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	39.60	26.90	1.55	39.60	26.90	1.55
STAGE 2	8.90	47.70	1.50	48.50	30.72	1.54
TAILINGS	51.50	77.00	1.18	100.00	54.55	1.36

PULP DENSITY = 10Z

REAGENT/DOSAGE = 4:1 = D.F. : MIBC / 0.60 LBS/TONNE -- 1ST 30 SEC. WITH D.F. & THE
 CONDITIONING = 60 SECONDS NEXT 30 SEC. WITH M.I.B.C.

STAGE I = FIRST MINUTE FROTH

STAGE II = SECOND MINUTE FROTH

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM B BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5610
 DATE: NOVEMBER 28, 1983

12 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBELED FOR 55 SECONDS
 WITH 150 LITRES H2O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (SD4) IN COAL AS SZ = 0.062

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WT%	RM%	ASH%	SZ	CUMULATIVE		
					WT%	ASH%	SZ
+ 50	21.50	2.00	11.30	1.27	21.50	11.30	1.27
50 X 25	12.70	1.90	14.40	1.38	34.20	12.45	1.31
25 X 9.5	16.20	1.90	18.20	2.28	50.40	14.30	1.62
9.5 X 2.0	21.40	1.70	22.60	1.99	71.80	16.77	1.73
2.0 X 1.0	6.40	1.70	20.10	1.78	78.20	17.05	1.74
1.0 X 0.6	7.00	0.90	17.60	1.66	85.20	17.09	1.73
0.6 X 0.3	3.90	1.10	24.30	1.79	89.10	17.41	1.73
0.3 X 0.15	2.80	1.20	27.20	1.93	91.90	17.78	1.74
0.15 X 0	8.10	1.20	54.00	1.53	100.00	20.64	1.72

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WT%	ASH%	SZ	CUMULATIVE		
				WT%	ASH%	SZ
FLOAT - 1.30	33.40	4.00	1.17	33.40	4.00	1.17
1.30 - 1.35	21.90	6.90	1.37	55.30	5.15	1.25
1.35 - 1.40	22.20	10.70	1.04	77.50	6.74	1.19
1.40 - 1.45	8.90	15.10	0.92	86.40	7.60	1.16
1.45 - 1.50	8.00	20.60	0.98	94.40	8.70	1.15
1.50 - 1.55	1.20	27.60	0.81	95.60	8.94	1.14
1.55 - 1.60	0.80	29.70	1.01	96.40	9.11	1.14
1.60 - 1.70	0.60	33.90	1.65	97.00	9.26	1.14
1.70 - 1.80	0.70	40.40	4.20	97.70	9.49	1.17
1.80 - 1.90	0.20	48.00	3.91	97.90	9.57	1.17
1.90 - SINK	2.10	66.50	5.90	100.00	10.76	1.27

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 8 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5610
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	28.00	3.80	1.11	28.00	3.80	1.11
1.30 - 1.35	35.40	7.90	1.09	63.40	6.09	1.10
1.35 - 1.40	10.60	12.30	1.04	74.00	6.98	1.09
1.40 - 1.45	7.40	15.40	1.28	81.40	7.74	1.11
1.45 - 1.50	6.90	21.10	1.57	88.30	8.79	1.14
1.50 - 1.55	2.30	26.70	1.72	90.60	9.24	1.16
1.55 - 1.60	1.50	30.20	1.39	92.10	9.58	1.16
1.60 - 1.70	1.90	38.20	2.35	94.00	10.16	1.19
1.70 - 1.80	0.98	42.00	4.77	94.90	10.46	1.22
1.80 - 1.90	0.60	47.20	2.04	95.50	10.70	1.23
1.90 - SINK	4.50	81.90	4.56	100.00	13.90	1.38

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	39.30	4.30	1.04	39.30	4.30	1.04
1.30 - 1.35	13.50	7.80	1.20	52.80	5.19	1.08
1.35 - 1.40	15.80	10.70	1.04	68.60	6.46	1.07
1.40 - 1.45	8.40	15.80	1.24	77.00	7.48	1.09
1.45 - 1.50	4.20	20.90	1.60	81.20	8.18	1.12
1.50 - 1.55	2.20	26.40	2.23	83.40	8.66	1.15
1.55 - 1.60	1.60	30.20	2.08	85.00	9.06	1.16
1.60 - 1.70	2.30	37.70	2.06	87.30	9.82	1.19
1.70 - 1.80	1.50	44.90	2.28	88.80	10.41	1.21
1.80 - 1.90	0.90	50.50	2.96	89.70	10.81	1.22
1.90 - SINK	10.30	80.80	7.94	100.00	18.02	1.91

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELUKA SEAM 8 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5610
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	29.60	2.50	1.14	29.60	2.50	1.14
1.30 - 1.35	29.20	6.90	1.12	58.80	4.69	1.13
1.35 - 1.40	8.50	8.90	1.47	67.30	5.22	1.17
1.40 - 1.45	3.20	12.60	1.08	70.50	5.55	1.17
1.45 - 1.50	4.60	18.80	1.28	75.10	6.36	1.18
1.50 - 1.55	2.10	24.70	1.64	77.20	6.86	1.19
1.55 - 1.60	1.30	30.00	1.92	78.50	7.25	1.20
1.60 - 1.70	1.40	36.40	2.21	79.90	7.76	1.22
1.70 - 1.80	1.20	44.50	2.37	81.10	8.30	1.24
1.80 - 1.90	0.90	50.90	2.73	82.00	8.77	1.25
1.90 - SINK	18.00	83.00	4.33	100.00	22.13	1.81

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	33.40	2.00	1.14	33.40	2.00	1.14
1.30 - 1.35	18.90	5.20	1.14	52.30	3.16	1.14
1.35 - 1.40	12.50	8.20	1.04	64.80	4.13	1.12
1.40 - 1.45	9.80	11.60	1.02	74.60	5.11	1.11
1.45 - 1.50	3.60	17.60	1.21	78.20	5.69	1.11
1.50 - 1.55	2.00	23.10	1.48	80.20	6.12	1.12
1.55 - 1.60	0.80	28.90	1.85	81.00	6.34	1.13
1.60 - 1.70	1.40	34.70	2.34	82.40	6.83	1.15
1.70 - 1.80	0.90	43.60	2.14	83.30	7.22	1.16
1.80 - 1.90	1.10	58.70	2.27	84.40	7.89	1.17
1.90 - SINK	15.60	82.70	3.48	100.00	19.56	1.53

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELUKA SEAM 8 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5610
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	34.00	1.90	1.05	34.00	1.90	1.05
1.30 - 1.35	18.50	4.60	1.15	52.50	2.85	1.09
1.35 - 1.40	12.70	7.80	1.08	65.20	3.82	1.08
1.40 - 1.45	9.50	11.30	1.09	74.70	4.77	1.08
1.45 - 1.50	4.30	15.80	1.08	79.00	5.37	1.08
1.50 - 1.55	2.50	21.20	1.28	81.50	5.85	1.09
1.55 - 1.60	1.30	26.60	1.61	82.80	6.18	1.10
1.60 - 1.70	1.50	33.30	1.87	84.30	6.66	1.11
1.70 - 1.80	1.00	41.30	2.09	85.30	7.07	1.12
1.80 - 1.90	0.70	49.70	2.35	86.00	7.41	1.13
1.90 - SINK	14.00	80.20	4.45	100.00	17.60	1.60

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	33.00	2.20	1.07	33.00	2.20	1.07
1.30 - 1.35	15.80	5.90	1.16	48.80	3.40	1.10
1.35 - 1.40	10.20	7.50	1.20	59.00	4.11	1.12
1.40 - 1.45	7.70	11.50	1.05	66.70	4.96	1.11
1.45 - 1.50	3.50	15.00	1.13	70.20	5.46	1.11
1.50 - 1.55	3.00	20.00	1.24	73.20	6.06	1.12
1.55 - 1.60	1.90	25.50	1.39	75.10	6.55	1.12
1.60 - 1.70	1.70	32.40	1.69	76.80	7.12	1.13
1.70 - 1.80	1.20	41.00	1.92	78.00	7.64	1.15
1.80 - 1.90	0.80	49.30	2.02	78.80	8.07	1.16
1.90 - SINK	21.20	80.70	3.59	100.00	23.46	1.67

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 8 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5610
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	26.20	1.90	1.06	26.20	1.90	1.06
1.30 - 1.35	16.00	4.70	1.09	42.20	2.96	1.07
1.35 - 1.40	8.30	7.10	1.02	50.50	3.64	1.06
1.40 - 1.45	9.10	9.70	1.01	59.60	4.57	1.05
1.45 - 1.50	5.50	14.20	0.96	65.10	5.38	1.05
1.50 - 1.55	2.90	18.40	1.14	68.00	5.94	1.05
1.55 - 1.60	2.60	23.00	1.24	70.60	6.56	1.06
1.60 - 1.70	2.30	29.40	1.41	72.90	7.28	1.07
1.70 - 1.80	1.50	36.60	1.58	74.40	7.88	1.08
1.80 - 1.90	1.40	47.90	1.97	75.80	8.62	1.10
1.90 - SINK	24.20	82.90	4.28	100.00	26.59	1.87

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	39.60	26.90	1.55	39.60	26.90	1.55
STAGE 2	8.90	47.70	1.50	48.50	30.72	1.54
TAILINGS	51.50	77.00	1.18	100.00	54.55	1.36

PULP DENSITY = 10Z
 REAGENT/DOSAGE = 4:1 = D.F. : MIBC /0.60 LBS/TONNE -- 1ST 30 SEC. WITH D.F. & THE
 CONDITIONING = 60 SECONDS NEXT 30 SEC. WITH M.I.B.C.
 STAGE I = FIRST MINUTE FROTH
 STAGE II = SECOND MINUTE FROTH

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7R2 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5781
 DATE: NOVEMBER 28, 1983

12 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBLED FOR 80 SECONDS
 WITH 150 LITRES H2O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (SO4) IN COAL AS SZ = 0.031

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE		
					WTZ	ASHZ	SZ
+ 50	22.70	1.90	13.60	1.56	22.70	13.60	1.56
50 X 25	17.90	1.80	22.10	1.54	40.60	17.35	1.55
25 X 9.5	19.10	1.70	22.60	1.48	59.70	19.03	1.53
9.5 X 2.0	18.10	1.50	19.10	1.54	77.80	19.84	1.53
2.0 X 1.0	5.80	1.10	15.50	1.64	83.60	18.80	1.54
1.0 X 0.6	6.10	0.70	15.10	1.86	89.70	18.55	1.56
.6 X 0.3	3.10	0.80	17.60	2.22	92.80	18.52	1.58
0.3 X 0.15	1.80	1.00	19.70	2.59	94.60	18.54	1.60
0.15 X 0	5.40	1.00	41.40	1.62	100.00	19.77	1.60

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	24.70	4.80	1.44	24.70	4.80	1.44
1.30 - 1.35	43.90	7.30	1.79	68.60	6.40	1.66
1.35 - 1.40	9.60	12.00	1.64	78.20	7.89	1.66
1.40 - 1.45	11.00	16.60	1.32	89.20	8.26	1.62
1.45 - 1.50	1.20	23.10	1.17	90.40	8.46	1.61
1.50 - 1.55	1.30	26.60	0.70	91.70	8.71	1.60
1.55 - 1.60	1.20	32.40	0.93	92.90	9.02	1.59
1.60 - 1.70	1.10	37.00	0.92	94.00	9.35	1.58
1.70 - 1.80	0.10	44.60	1.60	94.10	9.39	1.58
1.80 - 1.90	0.80	55.10	1.12	94.90	9.77	1.58
1.90 - SINK	5.10	74.60	1.23	100.00	13.08	1.56

Birtley Coal
& Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7R2 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5781
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	11.20	4.30	1.43	11.20	4.30	1.43
1.30 - 1.35	45.30	7.30	1.62	56.50	6.71	1.58
1.35 - 1.40	5.40	12.40	1.80	61.90	7.20	1.60
1.40 - 1.45	9.80	16.10	1.77	71.70	8.42	1.62
1.45 - 1.50	3.30	21.40	1.89	75.00	8.99	1.64
1.50 - 1.55	2.60	27.20	1.42	77.60	9.60	1.63
1.55 - 1.60	2.20	32.50	1.57	79.80	10.23	1.63
1.60 - 1.70	3.80	39.20	1.99	83.60	11.55	1.64
1.70 - 1.80	1.40	48.00	2.09	85.00	12.15	1.65
1.80 - 1.90	0.90	53.00	2.56	85.90	12.58	1.66
1.90 - SINK	14.10	79.90	0.79	100.00	22.07	1.54

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	12.40	3.80	1.41	12.40	3.80	1.41
1.30 - 1.35	41.90	7.40	1.51	54.30	6.58	1.49
1.35 - 1.40	5.30	11.90	1.55	59.60	7.05	1.49
1.40 - 1.45	8.90	15.50	1.61	68.50	8.15	1.51
1.45 - 1.50	4.50	20.90	1.70	73.00	8.93	1.52
1.50 - 1.55	3.40	22.40	1.82	76.40	9.53	1.53
1.55 - 1.60	1.90	31.30	1.87	78.30	10.06	1.54
1.60 - 1.70	3.20	37.90	1.94	81.50	11.16	1.56
1.70 - 1.80	1.80	47.30	1.81	83.30	11.94	1.56
1.80 - 1.90	1.10	53.60	2.01	84.40	12.48	1.57
1.90 - SINK	15.60	80.50	1.18	100.00	23.09	1.51

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7R2 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5781
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	29.70	2.40	1.44	29.70	2.40	1.44
1.30 - 1.35	32.20	7.00	1.46	61.90	4.79	1.45
1.35 - 1.40	4.30	12.10	1.75	66.20	5.27	1.47
1.40 - 1.45	8.00	14.80	1.69	74.20	6.30	1.49
1.45 - 1.50	4.70	19.80	1.87	78.90	7.10	1.52
1.50 - 1.55	2.30	25.00	2.09	81.20	7.61	1.53
1.55 - 1.60	1.60	30.40	2.29	82.80	8.05	1.55
1.60 - 1.70	2.40	37.30	2.35	85.20	8.87	1.57
1.70 - 1.80	1.30	45.30	2.39	86.50	9.42	1.58
1.80 - 1.90	1.10	53.20	2.81	87.60	9.97	1.60
1.90 - SINK	12.40	81.00	1.95	100.00	18.78	1.64

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	42.10	2.00	1.37	42.10	2.00	1.37
1.30 - 1.35	24.30	6.20	1.47	66.40	3.54	1.41
1.35 - 1.40	5.40	9.70	1.72	71.80	4.00	1.43
1.40 - 1.45	6.10	13.00	1.59	77.90	4.71	1.44
1.45 - 1.50	5.00	17.80	1.74	82.90	5.50	1.46
1.50 - 1.55	1.90	22.30	1.83	84.80	5.87	1.47
1.55 - 1.60	1.60	27.40	2.27	86.40	6.27	1.48
1.60 - 1.70	1.80	34.30	2.61	88.20	6.84	1.51
1.70 - 1.80	1.10	43.00	2.91	89.30	7.29	1.52
1.80 - 1.90	0.80	50.20	2.92	90.10	7.67	1.54
1.90 - SINK	9.90	78.70	3.36	100.00	14.70	1.72

CLIENT: CROMS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7R2 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5781
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	46.40	2.10	1.33	46.40	2.10	1.33
1.30 - 1.35	15.10	5.80	1.52	61.50	3.01	1.38
1.35 - 1.40	9.80	8.90	1.54	71.30	3.82	1.40
1.40 - 1.45	6.20	12.50	1.57	77.50	4.51	1.41
1.45 - 1.50	3.70	17.20	1.68	81.20	5.09	1.42
1.50 - 1.55	2.50	21.40	1.75	83.70	5.58	1.43
1.55 - 1.60	1.50	26.00	1.96	85.20	5.94	1.44
1.60 - 1.70	1.70	32.90	2.62	86.90	6.47	1.47
1.70 - 1.80	1.20	40.00	3.09	88.10	6.92	1.49
1.80 - 1.90	0.70	48.20	3.04	88.80	7.25	1.50
1.90 - SINK	11.20	76.80	5.48	100.00	15.04	1.95

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	43.80	2.00	1.25	43.80	2.00	1.25
1.30 - 1.35	11.70	5.20	1.41	55.50	2.67	1.28
1.35 - 1.40	10.50	8.00	1.39	66.00	3.52	1.30
1.40 - 1.45	6.50	11.80	1.54	72.50	4.26	1.32
1.45 - 1.50	4.80	16.40	1.61	77.30	5.02	1.34
1.50 - 1.55	2.10	21.00	1.69	79.40	5.44	1.35
1.55 - 1.60	1.80	25.10	1.91	81.20	5.88	1.36
1.60 - 1.70	1.90	31.80	2.36	83.10	6.47	1.38
1.70 - 1.80	1.30	40.20	2.61	84.40	6.99	1.40
1.80 - 1.90	0.90	47.40	2.93	85.30	7.41	1.42
1.90 - SINK	14.70	77.00	6.79	100.00	17.64	2.21

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7R2 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5781
 DATE: NOVEMBER 28, 1983

FLDAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	41.40	1.80	1.23	41.40	1.80	1.23
1.30 - 1.35	8.60	4.80	1.37	50.00	2.32	1.25
1.35 - 1.40	11.30	7.10	1.30	61.30	3.20	1.26
1.40 - 1.45	7.70	11.00	1.33	69.00	4.07	1.27
1.45 - 1.50	4.30	15.30	1.34	73.30	4.73	1.27
1.50 - 1.55	3.00	20.00	1.53	76.30	5.33	1.28
1.55 - 1.60	2.00	24.50	1.71	78.30	5.82	1.30
1.60 - 1.70	2.10	30.50	2.07	80.40	6.46	1.32
1.70 - 1.80	1.40	38.80	2.49	81.80	7.02	1.34
1.80 - 1.90	1.10	45.40	2.78	82.90	7.53	1.35
1.90 - SINK	17.10	75.10	8.80	100.00	19.08	2.63

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	37.90	19.00	1.17	37.90	19.00	1.17
STAGE 2	7.90	30.20	1.18	45.80	20.93	1.17
TAILINGS	54.20	57.80	1.71	100.00	40.91	1.46

PULP DENSITY = 10%

REAGENTS = 0.48 LBS/TONNE OF DIESEL FUEL FOR 1ST 30 SECOND CONDITIONING
 & 0.12 LBS/TONNE OF MIBC FOR NEXT 30 SECOND CONDITIONING

STAGE I = FIRST MINUTE FROTH

STAGE II = SECOND MINUTE FROTH

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7R1 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5778
 DATE: NOVEMBER 17, 1983

12 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBLED FOR 80 SECONDS
 WITH 150 LITRES H2O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (SD4) IN COAL AS SZ = 0.050 ?

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE		
					WTZ	ASHZ	SZ
+ 50	21.70	1.50	20.30	2.74	21.70	20.30	2.74
50 X 25	13.30	1.30	22.10	2.55	35.00	20.98	2.67
25 X 9.5	22.00	1.00	24.40	2.77	57.00	22.30	2.71
9.5 X 2.0	15.90	1.00	28.20	2.34	72.90	23.59	2.63
2.0 X 1.0	4.70	1.10	27.00	2.04	77.60	23.80	2.59
1.0 X 0.6	6.10	0.80	25.50	2.22	83.70	23.92	2.56
0.6 X 0.3	3.50	1.00	27.90	2.32	87.20	24.08	2.55
0.3 X 0.15	2.60	0.90	30.20	2.29	89.80	24.26	2.55
0.15 X 0	10.20	1.00	59.10	1.28	100.00	27.81	2.42

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	0.10	2.20	1.24	0.10	2.20	1.24
1.30 - 1.35	14.50	6.20	1.21	14.60	6.17	1.21
1.35 - 1.40	24.50	9.60	1.26	39.10	8.32	1.24
1.40 - 1.45	10.00	14.30	2.19	49.10	9.54	1.43
1.45 - 1.50	2.40	19.20	3.81	51.50	9.99	1.55
1.50 - 1.55	6.10	22.60	2.95	57.60	11.32	1.69
1.55 - 1.60	15.70	25.90	2.33	73.30	14.45	1.83
1.60 - 1.70	17.20	30.40	3.22	90.50	17.48	2.09
1.70 - 1.80	5.80	35.80	5.02	96.30	18.58	2.27
1.80 - 1.90	1.20	42.70	10.30	97.50	18.88	2.37
1.90 - SINK	2.50	75.00	17.40	100.00	20.28	2.75

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD.

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7R1 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5778
 DATE: NOVEMBER 17, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	1.50	4.20	1.25	1.50	4.20	1.25
1.30 - 1.35	24.50	6.60	1.19	26.00	6.46	1.19
1.35 - 1.40	14.60	11.20	1.57	40.60	8.17	1.33
1.40 - 1.45	7.80	14.90	2.23	48.40	9.25	1.47
1.45 - 1.50	6.70	18.70	3.10	55.10	10.40	1.67
1.50 - 1.55	9.40	23.20	3.14	64.50	12.27	1.89
1.55 - 1.60	9.30	27.00	3.08	73.80	14.12	2.04
1.60 - 1.70	12.90	29.90	3.18	86.70	16.47	2.21
1.70 - 1.80	5.50	37.10	3.16	92.20	17.70	2.26
1.80 - 1.90	0.80	43.60	4.09	93.00	17.92	2.28
1.90 - SINK	7.00	77.20	6.17	100.00	22.07	2.55

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	1.90	3.90	1.32	1.90	3.90	1.32
1.30 - 1.35	12.80	5.60	1.18	14.70	5.38	1.20
1.35 - 1.40	30.20	10.20	1.32	44.90	8.62	1.28
1.40 - 1.45	13.50	15.00	2.22	58.40	10.10	1.50
1.45 - 1.50	4.40	19.80	2.88	62.80	10.78	1.59
1.50 - 1.55	5.70	23.20	3.18	68.50	11.81	1.73
1.55 - 1.60	5.90	26.70	3.23	74.40	12.99	1.85
1.60 - 1.70	6.30	32.40	3.09	80.70	14.51	1.94
1.70 - 1.80	3.60	39.00	3.55	84.30	15.55	2.01
1.80 - 1.90	1.70	42.30	3.69	86.00	16.08	2.04
1.90 - SINK	14.00	69.18	6.60	100.00	23.50	2.68

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7R1 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5778
 DATE: NOVEMBER 17, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	6.40	2.70	1.35	6.40	2.70	1.35
1.30 - 1.35	16.70	5.50	1.22	23.10	4.72	1.26
1.35 - 1.40	18.10	9.70	1.25	41.20	6.91	1.25
1.40 - 1.45	14.60	13.90	1.81	55.80	8.74	1.40
1.45 - 1.50	4.00	18.50	2.60	59.80	9.39	1.48
1.50 - 1.55	5.60	22.20	2.89	65.40	10.49	1.60
1.55 - 1.60	3.50	26.90	3.07	68.90	11.32	1.67
1.60 - 1.70	4.60	31.70	3.35	73.50	12.60	1.78
1.70 - 1.80	3.30	38.70	3.72	76.80	13.72	1.86
1.80 - 1.90	1.90	46.70	3.81	78.70	14.52	1.91
1.90 - SINK	21.30	79.30	3.13	100.00	28.31	2.17

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	12.50	2.00	1.24	12.50	2.00	1.24
1.30 - 1.35	14.00	5.10	1.30	26.50	3.64	1.27
1.35 - 1.40	15.50	8.40	1.15	42.00	5.40	1.23
1.40 - 1.45	16.40	12.50	1.45	58.40	7.39	1.29
1.45 - 1.50	2.50	16.60	2.18	60.90	7.77	1.33
1.50 - 1.55	4.90	19.00	2.37	65.80	8.60	1.40
1.55 - 1.60	4.00	23.30	2.54	69.80	9.45	1.47
1.60 - 1.70	4.70	29.60	3.04	74.50	10.72	1.57
1.70 - 1.80	2.90	37.60	3.67	77.40	11.73	1.65
1.80 - 1.90	1.80	45.50	3.74	79.20	12.49	1.69
1.90 - SINK	20.80	78.00	3.35	100.00	26.12	2.04

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7R1 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5778
 DATE: NOVEMBER 17, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	17.20	1.80	1.25	17.20	1.80	1.25
1.30 - 1.35	10.80	4.90	1.32	28.00	3.00	1.28
1.35 - 1.40	10.00	6.60	1.26	38.00	3.94	1.27
1.40 - 1.45	15.20	9.80	1.23	53.20	5.62	1.26
1.45 - 1.50	8.40	13.50	1.45	61.60	6.69	1.29
1.50 - 1.55	8.50	20.60	2.31	70.10	8.38	1.41
1.55 - 1.60	2.30	22.60	2.33	72.40	8.83	1.44
1.60 - 1.70	3.10	28.70	2.91	75.50	9.65	1.50
1.70 - 1.80	2.80	36.20	3.54	78.30	10.60	1.57
1.80 - 1.90	2.00	47.20	3.94	80.30	11.51	1.63
1.90 - SINK	19.70	76.40	4.10	100.00	24.29	2.12

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	18.00	2.00	1.22	18.00	2.00	1.22
1.30 - 1.35	14.10	5.20	1.21	32.10	3.41	1.22
1.35 - 1.40	9.10	7.50	1.02	41.20	4.31	1.17
1.40 - 1.45	13.10	10.40	1.17	54.30	5.78	1.17
1.45 - 1.50	8.10	14.90	1.43	62.40	6.96	1.21
1.50 - 1.55	1.80	19.70	1.58	64.20	7.32	1.22
1.55 - 1.60	2.90	21.70	1.90	67.10	7.94	1.25
1.60 - 1.70	2.60	27.40	2.53	69.70	8.67	1.29
1.70 - 1.80	3.50	33.20	2.86	73.20	9.84	1.37
1.80 - 1.90	1.40	44.60	3.78	74.60	10.49	1.41
1.90 - SINK	25.40	77.40	4.35	100.00	27.49	2.16

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7R1 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5778
 DATE: NOVEMBER 17, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	16.80	1.90	1.18	16.80	1.90	1.18
1.30 - 1.35	15.60	4.60	1.16	32.40	3.20	1.17
1.35 - 1.40	9.30	6.80	1.10	41.70	4.00	1.15
1.40 - 1.45	10.30	9.90	1.16	52.00	5.17	1.16
1.45 - 1.50	5.70	12.80	1.15	57.70	5.92	1.16
1.50 - 1.55	4.50	16.20	1.35	62.20	6.67	1.17
1.55 - 1.60	2.90	20.90	1.68	65.10	7.30	1.19
1.60 - 1.70	2.50	26.40	2.11	67.60	8.01	1.23
1.70 - 1.80	4.10	31.90	2.35	71.70	9.37	1.29
1.80 - 1.90	1.40	44.70	3.44	73.10	10.05	1.33
1.90 - SINK	26.90	77.50	4.21	100.00	28.19	2.11

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	11.30	25.30	1.08	11.30	25.30	1.08
STAGE 2	5.00	33.60	1.21	16.30	27.85	1.12
TAILINGS	83.70	63.50	1.45	100.00	57.69	1.40

PULP DENSITY = 10Z
 REAGENT/DOSAGE = 4:1 = KEROSENE:MIBC/0.50 LBS/TONNE
 CONDITIONING = 60 SECONDS
 STAGE I = FIRST MINUTE FROTH
 STAGE II = SECOND MINUTE FROTH

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5642
 DATE: NOVEMBER 14, 1983

12 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBLED FOR 85 SECONDS
 WITH 150 LITRES H2O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (S04) IN COAL AS SZ = 0.057 ?

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE		
					WTZ	ASHZ	SZ
+ 50	19.80	3.00	9.70	1.93	19.80	9.70	1.93
50 X 25	13.30	2.50	11.40	2.09	33.10	10.38	1.99
25 X 9.5	14.60	2.30	14.80	2.03	47.70	11.74	2.01
9.5 X 2.0	19.00	2.10	18.50	1.72	66.70	13.66	1.92
2.0 X 1.0	6.50	1.90	19.40	1.86	73.20	14.17	1.92
1.0 X 0.6	8.00	0.60	18.90	1.70	81.20	14.64	1.90
0.6 X 0.3	4.30	0.70	24.10	1.73	85.50	15.11	1.89
0.3 X 0.15	2.70	0.80	28.50	1.88	88.20	15.52	1.89
0.15 X 0	11.80	1.00	57.70	1.47	100.00	20.50	1.84

21.7 - RAW ANALYSIS
 SLIGHTLY BELOW

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	3.60	3.80	1.31	3.60	3.80	1.31
1.30 - 1.35	61.50	5.40	1.29	65.10	5.31	1.29
1.35 - 1.40	15.40	9.40	1.62	80.50	6.09	1.35
1.40 - 1.45	7.00	14.30	2.78	87.50	6.75	1.47
1.45 - 1.50	2.80	20.10	2.18	90.30	7.16	1.49
1.50 - 1.55	5.00	22.70	3.62	95.30	7.98	1.60
1.55 - 1.60	1.10	26.20	6.28	96.40	8.19	1.66
1.60 - 1.70	1.50	30.80	2.75	97.90	8.53	1.67
1.70 - 1.80	1.20	36.70	8.57	99.10	8.87	1.76
1.80 - 1.90	0.30	40.00	19.40	99.40	8.97	1.81
1.90 - SINK	0.60	52.60	22.70	100.00	9.23	1.93

CLEAN FOR S PURPOSES?

S WASH CURTES.

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5642
 DATE: NOVEMBER 14, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	0.30	3.00	1.26	0.30	3.00	1.26
1.30 - 1.35	43.20	4.30	1.13	43.50	4.29	1.13
1.35 - 1.40	30.80	7.40	1.39	74.30	5.58	1.24
1.40 - 1.45	9.20	13.60	1.97	83.50	6.46	1.32
1.45 - 1.50	5.10	19.50	2.75	88.60	7.21	1.40
1.50 - 1.55	2.20	22.60	2.87	90.80	7.59	1.44
1.55 - 1.60	3.00	26.20	2.94	93.80	8.18	1.48
1.60 - 1.70	1.80	29.60	6.79	95.60	8.59	1.58
1.70 - 1.80	0.50	37.30	5.49	96.10	8.73	1.61
1.80 - 1.90	0.50	43.10	6.20	96.60	8.91	1.63
1.90 - SINK	3.40	67.80	15.20	100.00	10.91	2.09

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	1.20	2.50	1.27	1.20	2.50	1.27
1.30 - 1.35	35.50	4.00	1.14	36.70	3.95	1.14
1.35 - 1.40	31.40	7.10	1.26	68.10	5.40	1.20
1.40 - 1.45	9.50	12.40	1.99	77.60	6.26	1.29
1.45 - 1.50	4.20	18.00	2.39	81.80	6.86	1.35
1.50 - 1.55	2.70	22.80	2.77	84.50	7.37	1.40
1.55 - 1.60	2.30	26.80	3.87	86.80	7.89	1.46
1.60 - 1.70	2.10	31.60	3.68	88.90	8.45	1.51
1.70 - 1.80	1.20	38.40	4.30	90.10	8.85	1.55
1.80 - 1.90	0.90	41.60	6.49	91.00	9.17	1.60
1.90 - SINK	9.00	77.50	6.88	100.00	15.32	2.08

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5642
 DATE: NOVEMBER 14, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	9.90	2.00	1.35	9.90	2.00	1.35
1.30 - 1.35	32.40	3.80	1.13	42.30	3.38	1.18
1.35 - 1.40	23.80	6.40	1.19	66.10	4.47	1.18
1.40 - 1.45	9.10	12.70	1.79	75.20	5.46	1.26
1.45 - 1.50	3.00	16.90	2.16	78.20	5.90	1.29
1.50 - 1.55	2.50	21.70	2.54	80.70	6.39	1.33
1.55 - 1.60	1.20	26.30	3.38	81.90	6.68	1.36
1.60 - 1.70	1.80	33.30	3.47	83.70	7.26	1.41
1.70 - 1.80	1.30	39.80	3.31	85.00	7.75	1.44
1.80 - 1.90	0.90	47.50	3.35	85.90	8.17	1.46
1.90 - SINK	14.10	80.60	3.53	100.00	18.38	1.75

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	20.90	2.00	1.27	20.90	2.00	1.27
1.30 - 1.35	30.60	4.40	1.25	51.50	3.43	1.26
1.35 - 1.40	19.10	7.30	1.37	70.60	4.47	1.29
1.40 - 1.45	3.60	11.90	1.99	74.20	4.83	1.32
1.45 - 1.50	3.90	15.30	2.14	78.10	5.36	1.36
1.50 - 1.55	2.30	20.80	2.71	80.40	5.80	1.40
1.55 - 1.60	1.10	26.10	3.35	81.50	6.07	1.43
1.60 - 1.70	1.60	32.20	3.28	83.10	6.58	1.46
1.70 - 1.80	1.00	37.50	3.24	84.10	6.94	1.48
1.80 - 1.90	0.80	48.10	3.34	84.90	7.33	1.50
1.90 - SINK	15.10	80.40	2.67	100.00	18.36	1.68

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5642
 DATE: NOVEMBER 14, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	34.20	2.30	1.28	34.20	2.30	1.28
1.30 - 1.35	23.10	5.00	1.27	57.30	3.39	1.28
1.35 - 1.40	9.20	7.80	1.38	66.50	4.00	1.29
1.40 - 1.45	7.10	11.18	1.66	73.60	4.68	1.33
1.45 - 1.50	1.90	14.90	2.10	75.50	4.94	1.35
1.50 - 1.55	2.10	18.90	2.43	77.60	5.32	1.37
1.55 - 1.60	1.30	22.80	2.79	78.90	5.61	1.40
1.60 - 1.70	1.80	28.90	3.21	80.70	6.13	1.44
1.70 - 1.80	1.20	37.50	3.60	81.90	6.59	1.47
1.80 - 1.90	1.10	46.00	3.44	83.00	7.11	1.50
1.90 - SINK	17.00	79.80	2.42	100.00	19.47	1.65

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	32.00	2.20	1.26	32.00	2.20	1.26
1.30 - 1.35	13.50	4.80	1.31	45.50	2.97	1.27
1.35 - 1.40	11.00	6.40	1.28	56.50	3.64	1.28
1.40 - 1.45	11.10	9.60	1.43	67.60	4.62	1.30
1.45 - 1.50	1.40	12.80	1.61	69.00	4.78	1.31
1.50 - 1.55	2.90	16.40	1.94	71.90	5.25	1.33
1.55 - 1.60	1.90	21.20	2.31	73.80	5.66	1.36
1.60 - 1.70	2.00	28.00	2.83	75.80	6.25	1.40
1.70 - 1.80	1.10	38.30	3.10	76.90	6.71	1.42
1.80 - 1.90	0.80	51.60	2.93	77.70	7.17	1.44
1.90 - SINK	22.30	80.60	2.30	100.00	23.55	1.63

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 7 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5642
 DATE: NOVEMBER 14, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	18.70	2.20	1.19	18.70	2.20	1.19
1.30 - 1.35	18.50	3.90	1.25	37.20	3.05	1.22
1.35 - 1.40	11.00	5.80	1.27	48.20	3.67	1.23
1.40 - 1.45	9.80	7.80	1.24	58.00	4.37	1.23
1.45 - 1.50	3.20	12.00	1.44	61.20	4.77	1.24
1.50 - 1.55	3.50	16.10	1.75	64.70	5.38	1.27
1.55 - 1.60	1.60	20.00	2.06	66.30	5.74	1.29
1.60 - 1.70	2.90	27.40	2.58	69.20	6.64	1.34
1.70 - 1.80	2.00	37.30	3.35	71.20	7.50	1.40
1.80 - 1.90	1.50	47.00	3.11	72.70	8.32	1.44
1.90 - SINK	27.30	79.40	2.73	100.00	27.72	1.79

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	18.70	31.10	1.25	18.70	31.10	1.25
STAGE 2	8.30	41.20	1.27	27.00	34.20	1.26
TAILINGS	73.00	65.90	1.63	100.00	57.34	1.53

PULP DENSITY = 10Z
 REAGENT/DOSAGE = 4:1 = KEROSENE:MIBC/0.50 LBS/TONNE
 CONDITIONING = 60 SECONDS
 STAGE I = FIRST MINUTE FROTH
 STAGE II = SECOND MINUTE FROTH

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6U BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5644
 DATE: NOVEMBER 28, 1983

12 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBLED FOR 80 SECONDS
 WITH 150 LITRES H₂O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (SD4) IN COAL AS SZ = 0.021

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	WTZ	CUMULATIVE ASHZ	SZ
+ 50	12.50	1.30	16.80	0.50	12.50	16.80	0.50
50 X 25	10.70	1.20	15.50	0.52	23.20	16.20	0.51
25 X 9.5	16.50	1.10	16.20	0.55	39.70	16.20	0.53
9.5 X 2.0	20.90	1.10	16.50	0.56	60.60	16.30	0.54
7.0 X 1.0	7.30	1.30	14.10	0.54	67.90	16.07	0.54
X 0.6	10.30	1.00	13.20	0.57	78.20	15.69	0.54
0.6 X 0.3	5.80	1.10	13.20	0.58	84.00	15.52	0.54
0.3 X 0.15	3.90	1.20	13.90	0.63	87.90	15.45	0.55
0.15 X 0	12.10	1.20	34.70	0.81	100.00	17.78	0.58

OK DEC 2/83

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WTZ	ASHZ	SZ	WTZ	CUMULATIVE ASHZ	SZ
FLOAT - 1.30	52.20	3.20	0.61	52.20	3.20	0.61
1.30 - 1.35	4.30	7.10	0.52	56.50	3.50	0.60
1.35 - 1.40	0.30	13.00	0.50	56.80	3.55	0.60
1.40 - 1.45	3.00	18.10	0.53	59.80	4.28	0.60
1.45 - 1.50	4.40	23.30	0.45	64.20	5.58	0.59
1.50 - 1.55	3.90	27.30	0.44	68.10	6.82	0.58
1.55 - 1.60	10.80	29.50	0.37	78.90	9.93	0.55
1.60 - 1.70	9.70	33.30	0.25	88.60	12.49	0.52
1.70 - 1.80	8.40	40.10	0.31	97.00	14.88	0.50
1.80 - 1.90	0.10	46.80	0.84	97.10	14.91	0.50
1.90 - SINK	2.90	79.30	0.58	100.00	16.78	0.50

OK DEC 2/83

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6U BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5644
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	56.80	3.10	0.59	56.80	3.10	0.59
1.30 - 1.35	5.50	6.20	0.51	62.30	3.37	0.58
1.35 - 1.40	4.00	11.50	0.50	66.30	3.86	0.58
1.40 - 1.45	4.70	16.90	0.49	71.00	4.73	0.57
1.45 - 1.50	2.40	21.90	0.40	73.40	5.29	0.57
1.50 - 1.55	3.90	26.50	0.42	77.30	6.36	0.56
1.55 - 1.60	4.60	29.10	0.37	81.90	7.64	0.55
1.60 - 1.70	5.00	34.30	0.29	86.90	9.17	0.53
1.70 - 1.80	3.60	40.40	0.34	90.50	10.41	0.53
1.80 - 1.90	1.70	46.20	0.35	92.20	11.07	0.52
1.90 - SINK	7.80	67.50	0.48	100.00	15.47	0.52

OK Dec 5.

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	45.10	2.80	0.55	45.10	2.80	0.55
1.30 - 1.35	16.10	5.60	0.45	61.20	3.54	0.52
1.35 - 1.40	6.10	11.00	0.45	67.30	4.21	0.52
1.40 - 1.45	6.00	15.90	0.40	73.30	5.17	0.51
1.45 - 1.50	4.20	21.20	0.36	77.50	6.04	0.50
1.50 - 1.55	2.60	26.40	0.36	80.10	6.70	0.49
1.55 - 1.60	3.20	31.00	0.37	83.30	7.63	0.49
1.60 - 1.70	4.20	36.70	0.34	87.50	9.03	0.48
1.70 - 1.80	3.50	42.20	0.31	91.00	10.30	0.48
1.80 - 1.90	2.00	48.20	0.34	93.00	11.12	0.47
1.90 - SINK	7.00	71.00	0.52	100.00	15.31	0.48

OK Dec 5.

Birtley Coal
& Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELJWA SEAM 6U BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5644
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
Float - 1.30	36.40	2.40	0.59	36.40	2.40	0.59
1.30 - 1.35	23.20	5.00	0.47	59.60	3.41	0.54
1.35 - 1.40	11.60	10.40	0.42	71.20	4.55	0.52
1.40 - 1.45	4.40	14.70	0.41	75.60	5.14	0.52
1.45 - 1.50	3.20	19.30	0.38	78.80	5.72	0.51
1.50 - 1.55	2.80	23.70	0.37	81.60	6.33	0.51
1.55 - 1.60	1.20	28.70	0.37	82.80	6.66	0.50
1.60 - 1.70	3.80	35.40	0.33	86.60	7.92	0.50
1.70 - 1.80	2.50	42.80	0.37	89.10	8.90	0.49
1.80 - 1.90	1.50	49.80	0.31	90.60	9.57	0.49
1.90 - SINK	9.40	73.60	0.36	100.00	15.59	0.48

OK Dec 5

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
Float - 1.30	34.50	1.90	0.64	34.50	1.90	0.64
1.30 - 1.35	24.40	4.40	0.55	58.90	2.94	0.60
1.35 - 1.40	10.50	7.40	0.47	69.40	3.61	0.58
1.40 - 1.45	9.30	12.20	0.42	78.70	4.63	0.56
1.45 - 1.50	2.30	16.90	0.41	81.00	4.97	0.56
1.50 - 1.55	3.70	20.90	0.36	84.70	5.67	0.55
1.55 - 1.60	0.70	26.90	0.46	85.40	5.84	0.55
1.60 - 1.70	2.70	32.20	0.33	88.10	6.65	0.54
1.70 - 1.80	1.50	41.00	0.33	89.60	7.23	0.54
1.80 - 1.90	1.40	47.60	0.34	91.00	7.85	0.54
1.90 - SINK	9.00	73.40	0.36	100.00	13.75	0.52

OK Dec 5

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6U BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5644
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	31.70	1.50	0.61	31.70	1.50	0.61
1.30 - 1.35	27.90	3.90	0.53	59.60	2.62	0.57
1.35 - 1.40	10.30	6.90	0.53	69.90	3.25	0.57
1.40 - 1.45	7.90	11.20	0.45	77.80	4.06	0.55
1.45 - 1.50	2.40	13.80	0.42	80.20	4.35	0.55
1.50 - 1.55	3.90	17.20	0.43	84.10	4.95	0.54
1.55 - 1.60	2.20	22.50	0.38	86.30	5.40	0.54
1.60 - 1.70	2.00	30.10	0.34	88.30	5.95	0.54
1.70 - 1.80	1.60	38.60	0.35	89.90	6.54	0.53
1.80 - 1.90	1.30	47.00	0.38	91.20	7.11	0.53
1.90 - SINK	8.80	71.70	0.38	100.00	12.80	0.52

OK Dec. 5

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	35.80	1.50	0.75	35.80	1.50	0.75
1.30 - 1.35	17.80	3.90	0.63	53.60	2.30	0.71
1.35 - 1.40	11.70	5.70	0.57	65.30	2.91	0.69
1.40 - 1.45	9.50	8.90	0.52	74.80	3.67	0.66
1.45 - 1.50	5.00	13.50	0.53	79.80	4.28	0.66
1.50 - 1.55	3.10	16.40	0.50	82.90	4.74	0.65
1.55 - 1.60	2.40	20.80	0.48	85.30	5.19	0.65
1.60 - 1.70	2.60	27.50	0.46	87.90	5.85	0.64
1.70 - 1.80	1.50	36.70	0.43	89.40	6.37	0.64
1.80 - 1.90	1.00	46.30	0.47	90.40	6.81	0.63
1.90 - SINK	9.60	70.90	0.59	100.00	12.96	0.63

OK Dec. 6

CLIENT: CROMS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6U BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5644
 DATE: NOVEMBER 28, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	31.50	1.40	0.74	31.50	1.40	0.74
1.30 - 1.35	21.90	3.40	0.67	53.40	2.22	0.71
1.35 - 1.40	10.00	5.30	0.59	63.40	2.71	0.69
1.40 - 1.45	9.80	8.30	0.56	73.20	3.45	0.67
1.45 - 1.50	5.30	11.70	0.57	78.50	4.01	0.67
1.50 - 1.55	3.90	16.00	0.50	82.40	4.58	0.66
1.55 - 1.60	3.00	20.80	0.51	85.40	5.15	0.65
1.60 - 1.70	2.20	27.60	0.51	87.60	5.71	0.65
1.70 - 1.80	1.60	36.70	0.51	89.20	6.27	0.65
1.80 - 1.90	1.10	46.80	0.54	90.30	6.76	0.65
1.90 - SINK	9.70	72.50	0.89	100.00	13.14	0.67

OK
Dec. 6/83

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	45.90	18.30	0.67	45.90	18.30	0.67
STAGE 2	11.30	25.30	0.74	57.20	19.68	0.68
TAILINGS	42.80	54.80	1.08	100.00	34.71	0.85

PULP DENSITY = 10Z
 REAGENT/DOSAGE = 4:1 = D.F.:MIBC/ 0.60 LBS/TONNE
 CONDITIONING = 1ST 30 SECONDS WITH D.F. & NEXT 30 SECONDS WITH MIBC
 STAGE I = FIRST MINUTE FROTH
 STAGE II = SECOND MINUTE FROTH

NOTE - DIESEL FUEL USED.
 SUPERIOR YIELDS COMPARED
 TO KEROSENE

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

NOTES

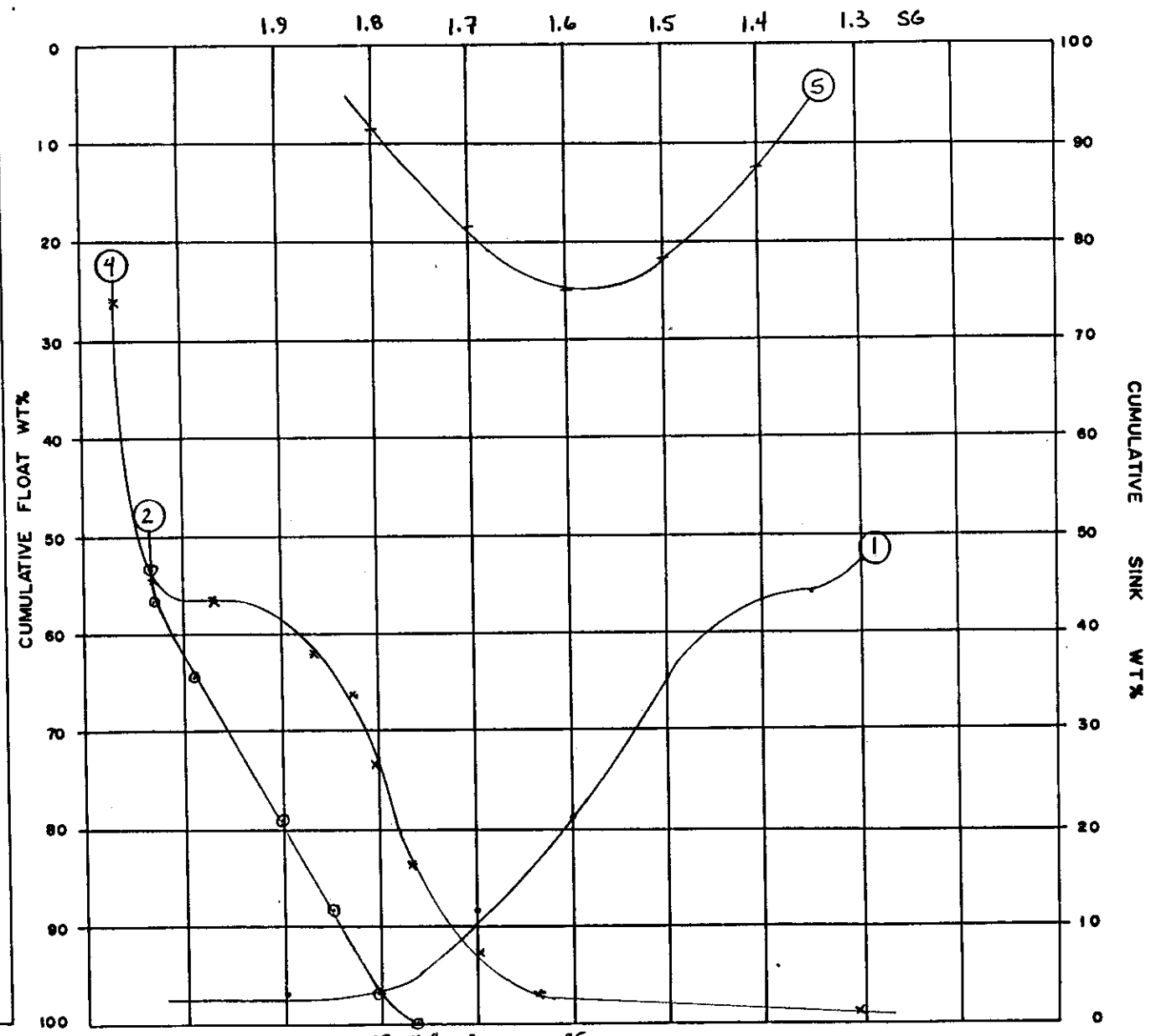
1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 12.5%
3. VERY UNUSUAL YIELD/SG CURVE
EXCEPTIONALLY HIGH YIELD AT
1.3 SG - VITRINITE DOMINANCE
IS SUSPECTED.
4. ELEMENTARY ASH CURVE INDICATES
SUBSTANTIAL LOCKED/COMPLEX
PARTICLES.
5. VERY UNUSUAL SHAPE OF NEAR
GRAVITY CURVE.
6. BIG DIFFERENCE BETWEEN THIS
SEAM AND OTHERS IN THE
CURVATURE ON THE CUM. FLOAT
ASH CURVE - INDICATING LOCKED
PARTICLES ALSO - A HIGH FLOAT
ASH GIVES THE SURPRISINGLY LOW
FEED ASH.

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM GU 100 x 50mm ATTACHED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT / ASH ◊
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH x
 CURVE 5 - ± 0.1 SG †

ASH %

CUMULATIVE FLOAT
ELEMENTARY

5 10 15 16.8 20 25 80



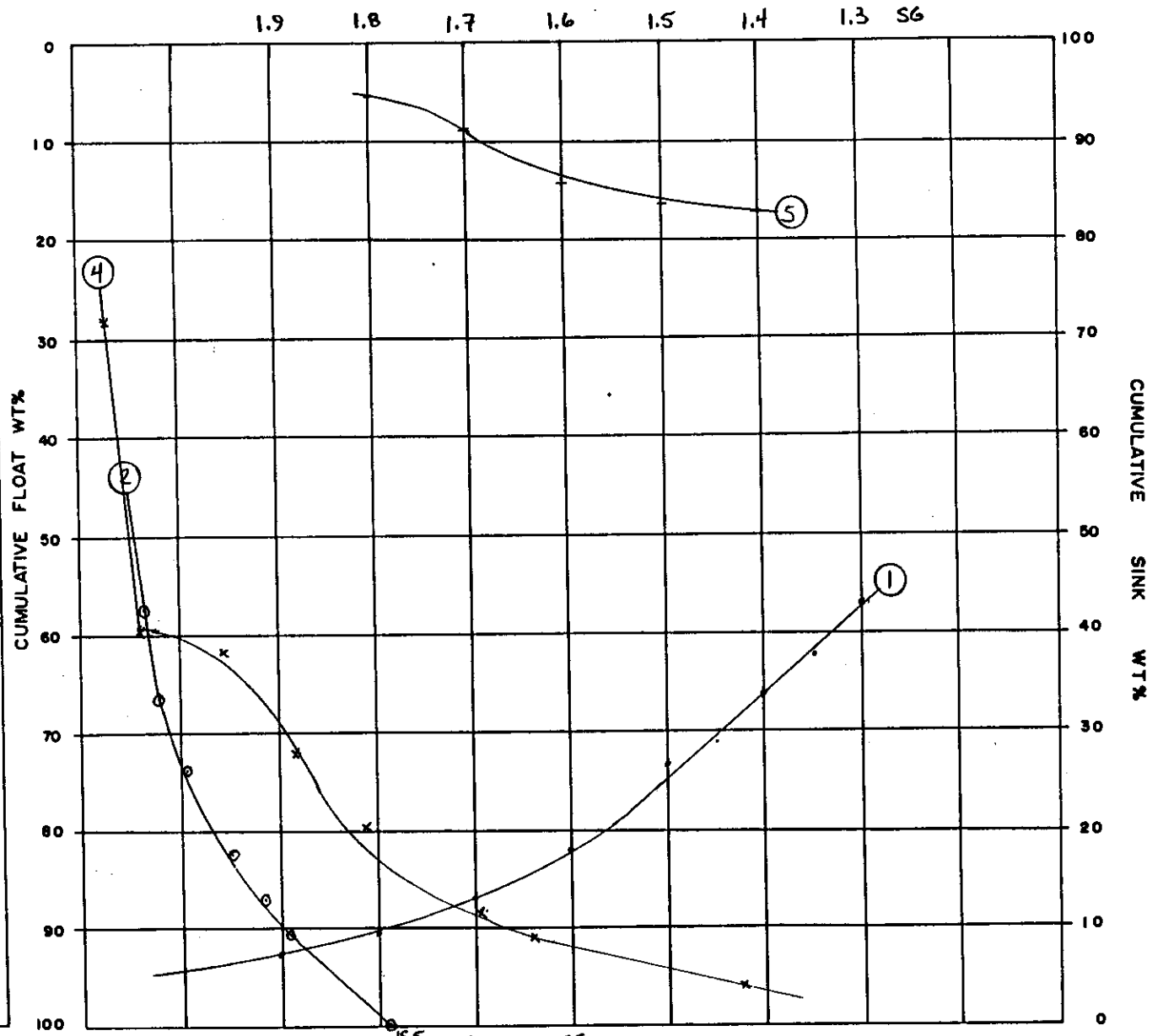
NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 10.7
3. HIGH YIELD AT LOW DENSITIES
4. UNUSUAL ELEMENTARY ASH CURVE
5. AS YIELD INCREASES AT LOW DENSITIES - NEAR GRAVITY FRACTION DECREASES.

GROVS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 60 50x25mm ATTRIED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ○
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG †

ASH % { CUMULATIVE FLOAT ELEMENTARY

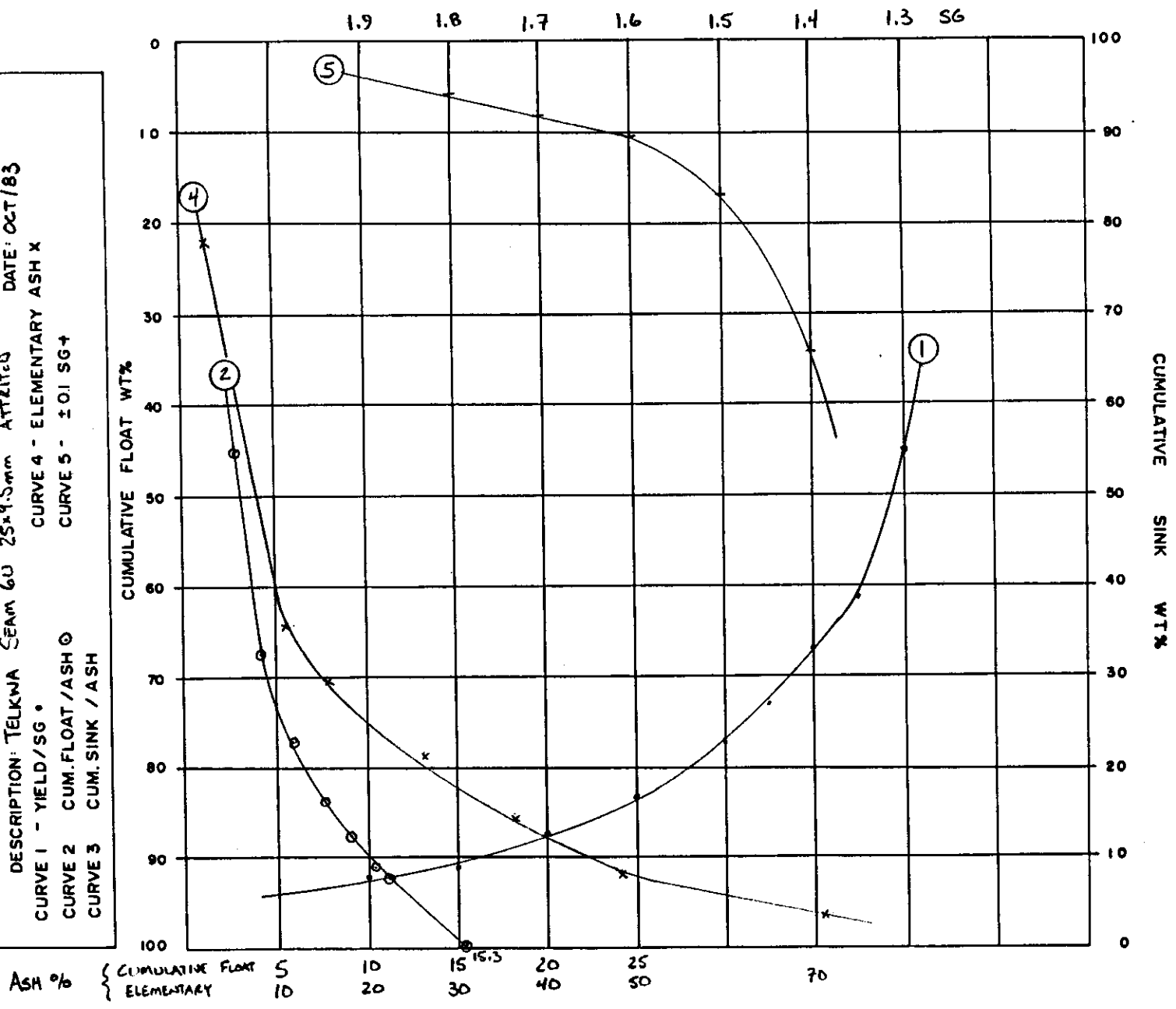
5	10	15	15.5	20	25	30	40	50	60
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NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 16.5%
3. ELEMENTARY ASH = NEAR GRAVITY CURVES BECOMING MORE SIMILAR TO OTHER SEAMS.
4. NOTE BUNCHING OF POINTS AT 10% ASH
5. NOTE SLIGHT DRAP IN FLOAT 1.3 YIELD.

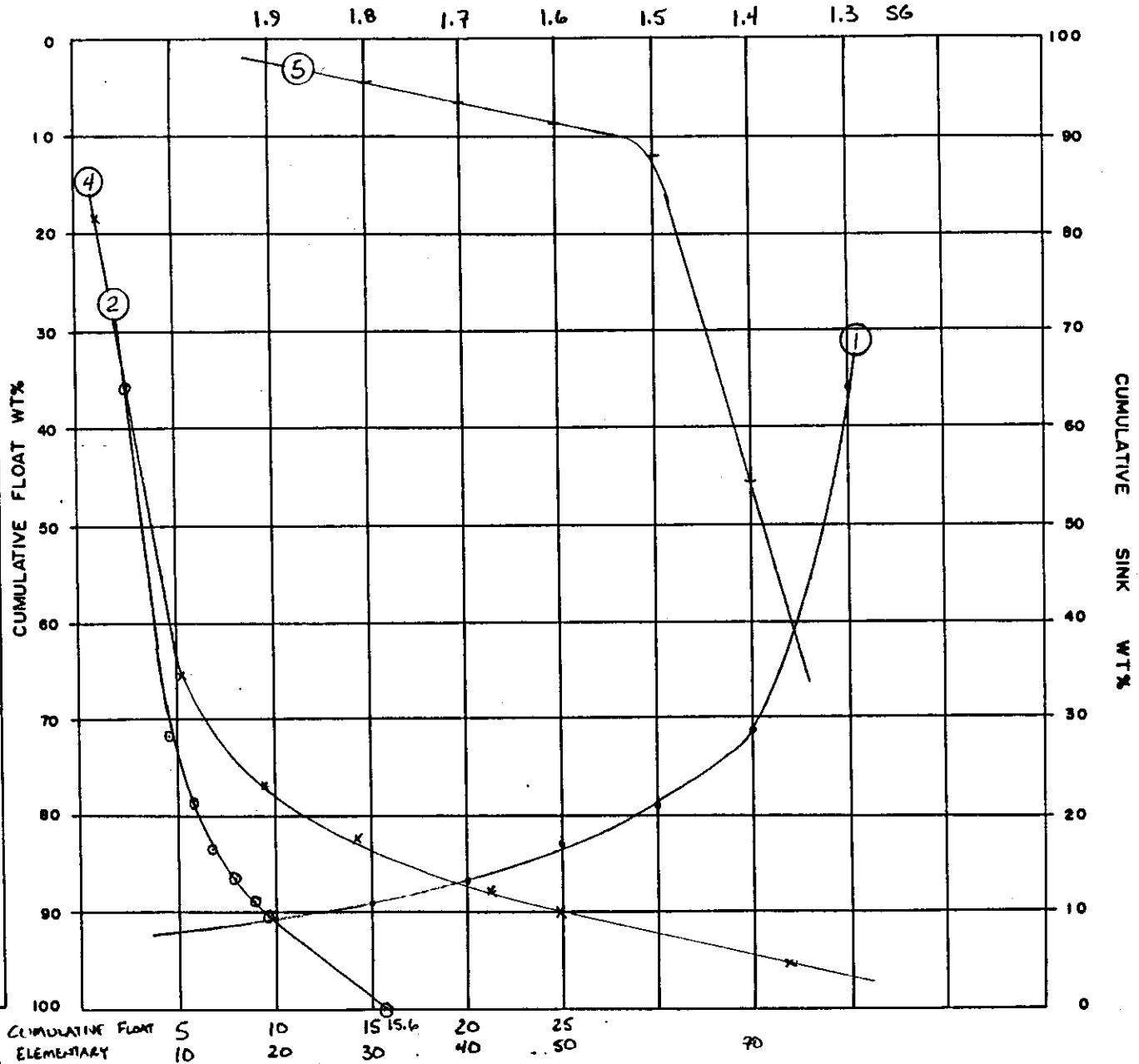
CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 60 25+9.5mm ATTATED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 - CUM.FLOAT/ASH ⊙
 CURVE 3 - CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH x
 CURVE 5 - ±0.1 SG+



NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 20.9%

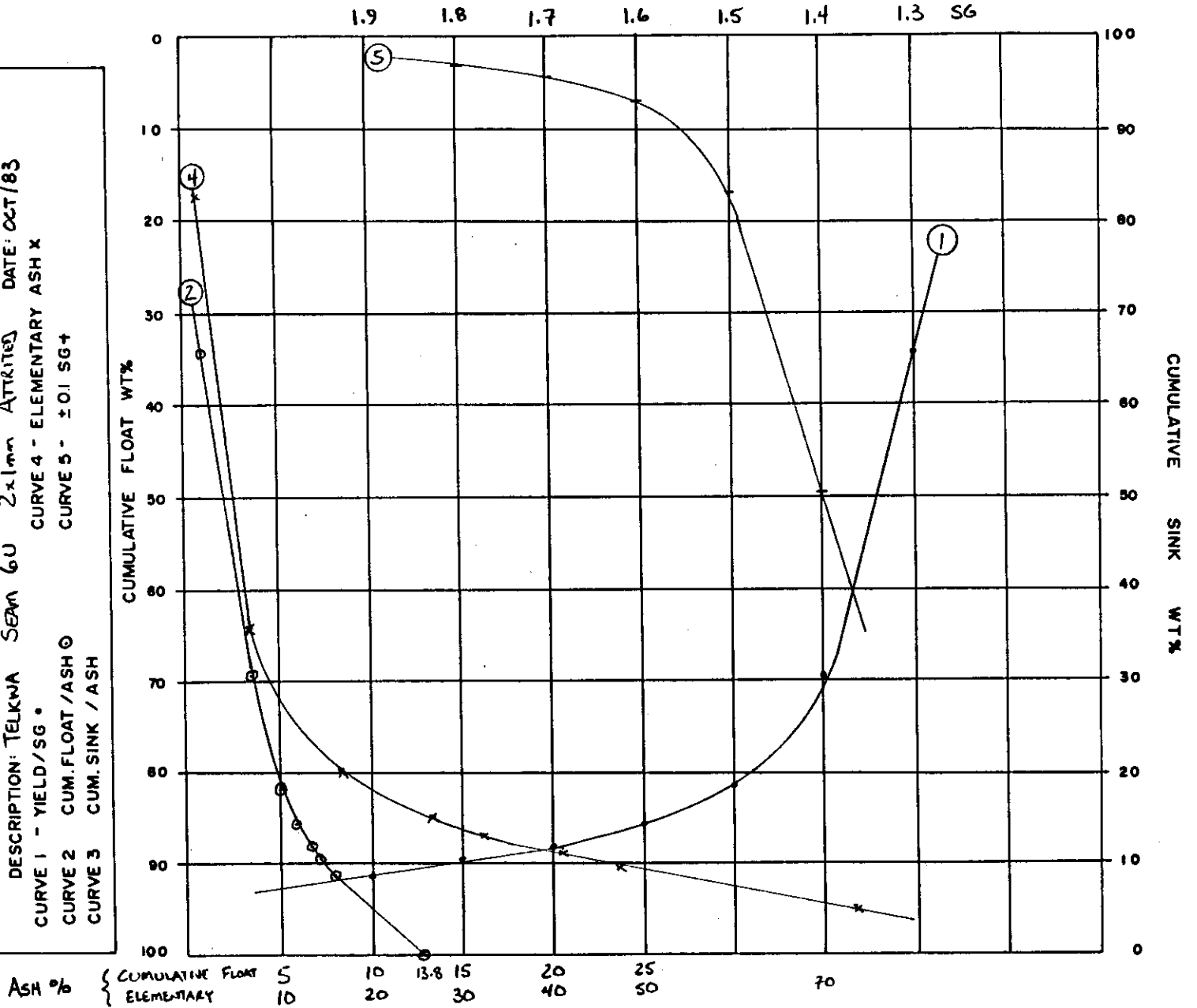
GROVS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 6U 9.5x2mm ATTATED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ◊
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG +



NOTES

- 1 DILUTION EXCLUDED
- 2 WT% OF PLANT FEED = 7.3%
- 3, CURVES RESURABLE OTHER TELKWA SIZES

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 6U 2x1mm ATTRITED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ◯
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG +

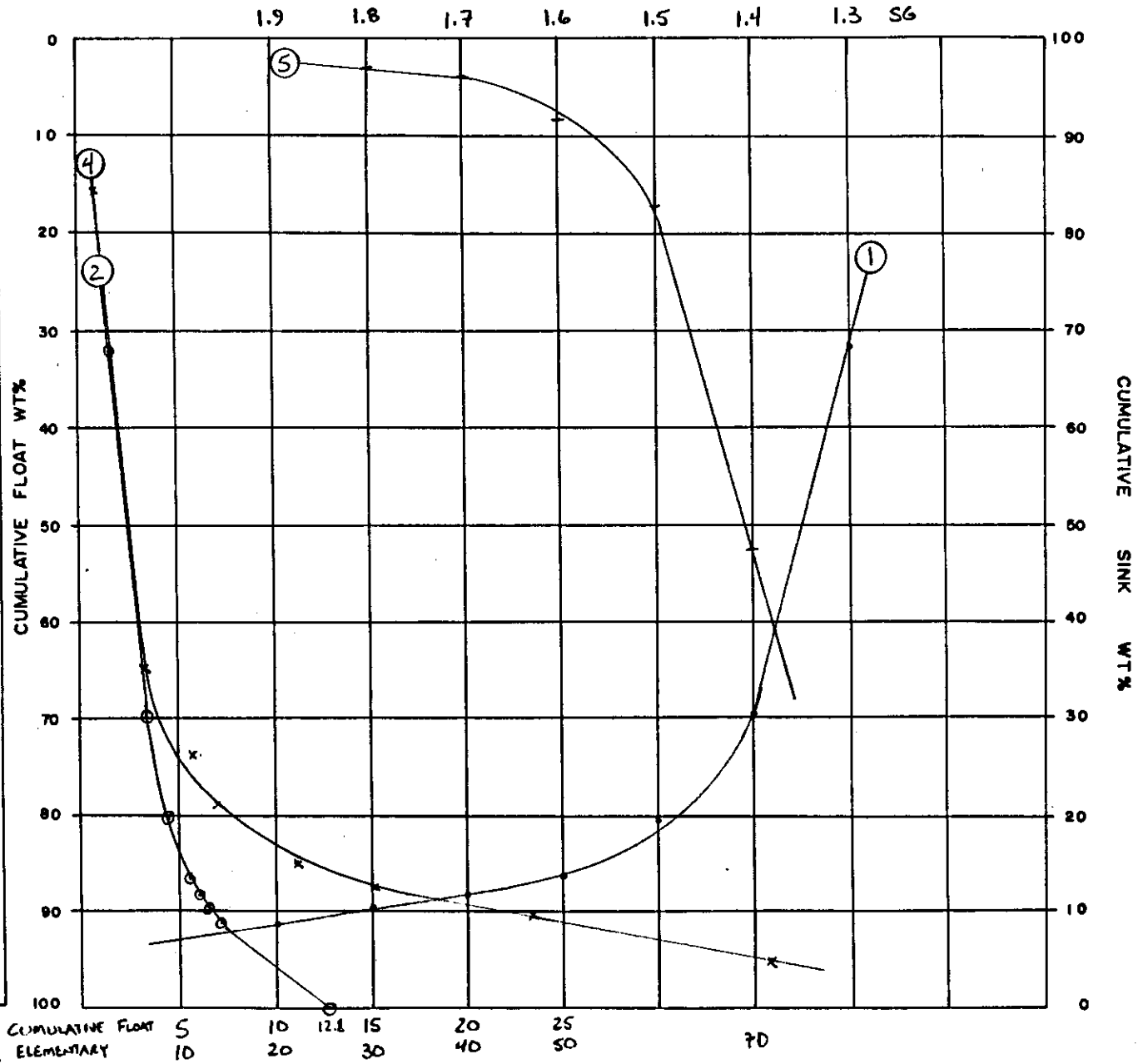


Ash % { CUMULATIVE FLOAT 5 10 13.8 15 20 25 70
ELEMENTARY 10 20 30 40 50

NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 10.3%

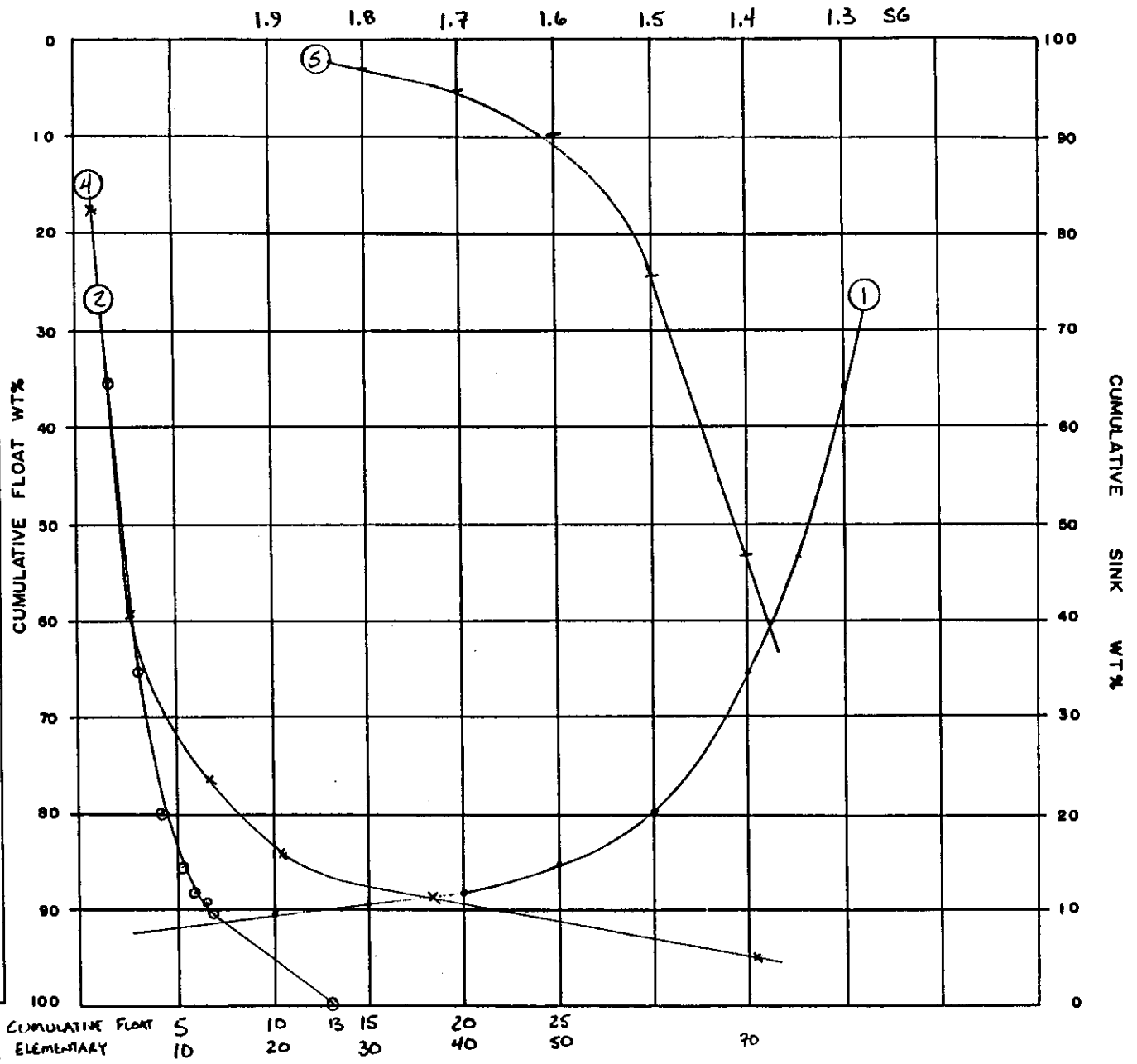
CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 60 1x.6mm ATTACHED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ◊
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH x
 CURVE 5 - ±0.1 SG+



NOTES

- 1 DILUTION EXCLUDED
- 2 WT% OF PLANT FEED = 5.8%

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 6 0.6x0.3mm ATTACHED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM. FLOAT / ASH ○
 CURVE 3 CUM. SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG ±

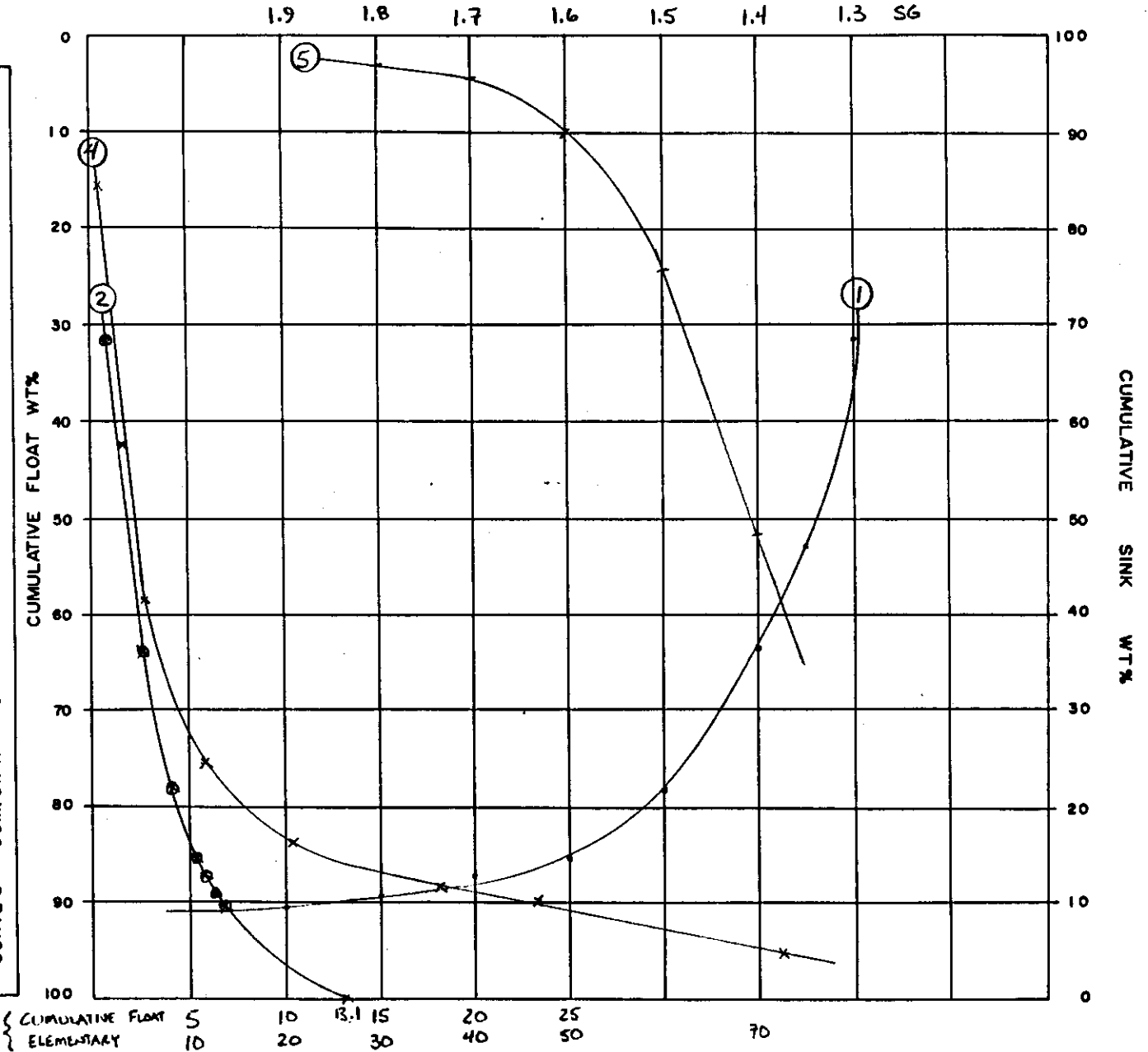


NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 3.9%

GROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 60 0.3x0.15mm ATTETED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 - CUM. FLOAT / ASH ◊
 CURVE 3 - CUM. SINK / ASH
 CURVE 4 - ELEMENTARY ASH x
 CURVE 5 - ±0.1 SG+

ASH %



DESCRIPTION: TELKWA SEAM 6U

DATE: OCT/83

SIZE RANGE: 100x50mm ATTRITED

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS S		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC WT%	CUM. ASH%			
FLOAT 1.30	52.2	3.2	52.2	3.2	0.61	0.61	26.1		
SINK 1.30 FLOAT 1.35	4.3	7.1	56.5	3.5	0.52	0.60	54.4		
SINK 1.35 FLOAT 1.40	0.3	13.0	56.8	3.6	0.50	0.60	56.7	12.3	1.4
SINK 1.40 FLOAT 1.45	3.0	18.1	59.8	4.3	0.53	0.60	58.3	22.7	1.5
SINK 1.45 FLOAT 1.50	4.4	23.3	64.2	5.6	0.45	0.59	62.0	25.0	1.6
SINK 1.50 FLOAT 1.55	3.9	27.3	68.1	6.8	0.44	0.58	66.2	18.9	1.7
SINK 1.55 FLOAT 1.60	10.8	29.5	78.9	9.9	0.37	0.55	73.5	8.7	1.8
SINK 1.60 FLOAT 1.70	9.7	33.3	88.6	12.5	0.25	0.52	83.8		
SINK 1.70 FLOAT 1.80	8.4	40.1	97.0	14.9	0.31	0.50	92.8		
SINK 1.80 FLOAT 1.90	0.1	46.8	97.1	14.9	0.54	0.50	97.1		
SINK " 1.90	2.9	79.3	100	16.8	0.56	0.50	98.6		

COMMENTS :

DESCRIPTION: TELKWA

SEAM 60

DATE: DECEMBER 1983

SIZE RANGE: 50x25mm

ATTRITED

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		SULPHUR		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC %	CUM %			
Float 1.30	56.8	3.1	56.8	3.1	0.59	0.59	28.4		
SINK 1.30 Float 1.35	5.5	6.2	62.3	3.4	0.51	0.58	59.6		
SINK 1.35 Float 1.40	4.0	11.5	66.3	3.9	0.50	0.58	64.3	17.6	1.4
SINK 1.40 Float 1.45	4.7	16.9	71.0	4.7	0.49	0.57	68.7	16.5	1.5
SINK 1.45 Float 1.50	2.4	21.9	73.4	5.3	0.40	0.57	72.2	14.3	1.6
SINK 1.50 Float 1.55	3.9	26.5	77.3	6.4	0.42	0.56	73.4	9.1	1.7
SINK 1.55 Float 1.60	4.6	29.1	81.9	7.6	0.37	0.55	79.6	5.6	1.8
SINK 1.60 Float 1.70	5.0	34.3	86.9	9.2	0.29	0.53	84.4		
SINK 1.70 Float 1.80	3.6	40.4	90.5	10.4	0.34	0.53	88.7		
SINK 1.80 Float 1.90	1.7	46.2	92.2	11.1	0.35	0.52	91.4		
SINK 1.90	7.8	67.5	100	15.5	0.48	0.52	96.1		

COMMENTS:

DILUTION EXCLUDED

DESCRIPTION: TELKWA SEAM 60

DATE: DECEMBER 1983

SIZE RANGE: 25x9.5 mm

ATTRITION

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		SULPHUR		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC %	CUM %			
FLOAT 1.30	45.1	2.8	45.1	2.8	0.55	0.55	22.6		
SINK 1.30 FLOAT 1.35	16.1	5.6	61.2	3.5	0.45	0.52	53.2		
SINK 1.35 FLOAT 1.40	6.1	11.0	67.3	4.2	0.45	0.52	64.3	34.5	1.4
SINK 1.40 FLOAT 1.45	6.0	15.9	73.3	5.2	0.40	0.51	70.3	17.0	1.5
SINK 1.45 FLOAT 1.50	4.2	21.2	77.5	6.0	0.36	0.50	75.4	10.6	1.6
SINK 1.50 FLOAT 1.55	2.6	26.4	80.1	6.7	0.36	0.49	78.8	8.2	1.7
SINK 1.55 FLOAT 1.60	3.2	31.0	83.3	7.6	0.37	0.49	81.7	5.9	1.8
SINK 1.60 FLOAT 1.70	4.2	36.7	87.5	9.0	0.34	0.48	85.4		
SINK 1.70 FLOAT 1.80	3.5	42.2	91.0	10.3	0.31	0.48	89.3		
SINK 1.80 FLOAT 1.90	2.0	48.2	93.0	11.1	0.34	0.47	92.0		
SINK 1.90	7.0	71.0	100	15.3	0.52	0.48	96.5		

COMMENTS: DILUTION EXCLUDED

DESCR. N: TELKWA SEAM 6U

DATE: DECEMBER 1983

SIZE RANGE: 9.5 x 2 mm

ATTRITION

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		SULPHUR		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC %	CUM %			
Float 1.30	36.4	2.4	36.4	2.4	0.59	0.59	18.2		
SINK 1.30 Float 1.35	23.2	5.0	59.6	3.4	0.47	0.54	48.0		
SINK 1.35 Float 1.40	11.6	10.4	71.2	4.6	0.42	0.52	65.4	45.6	1.4
SINK 1.40 Float 1.45	4.4	14.7	75.6	5.1	0.41	0.52	73.4	12.5	1.5
SINK 1.45 Float 1.50	3.2	19.3	78.8	5.7	0.38	0.51	77.2	8.4	1.6
SINK 1.50 Float 1.55	2.8	23.7	81.6	6.3	0.37	0.51	80.2	6.8	1.9
SINK 1.55 Float 1.60	1.2	28.7	82.8	6.7	0.37	0.50	82.2	4.3	1.8
SINK 1.60 Float 1.70	3.8	35.4	86.6	7.9	0.33	0.50	84.7		
SINK 1.70 Float 1.80	2.5	42.8	89.1	8.9	0.37	0.49	87.9		
SINK 1.80 Float 1.90	1.5	49.8	90.6	9.6	0.31	0.49	90.0		
SINK 1.90	9.4	73.6	100	15.6	0.36	0.48	95.3		

COMMENTS: DILUTION EXCLUDED

DESCRIPTION: TELKWA SEAM 6U

DATE: DECEMBER 1983

SIZE RANGE: 2x1mm

ATTRITED

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		SULPHUR		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC %	CUM %			
FLOAT 1.30	34.5	1.9	34.5	1.9	0.64	0.64	17.3		
SINK 1.30 FLOAT 1.35	24.4	4.4	58.9	2.9	0.55	0.60	46.7		
SINK 1.35 FLOAT 1.40	10.5	7.4	69.4	3.6	0.47	0.58	64.2	49.6	1.4
SINK 1.40 FLOAT 1.45	9.3	12.2	78.7	4.6	0.42	0.56	74.1	17.1	1.5
SINK 1.45 FLOAT 1.50	2.3	16.9	81.0	5.0	0.41	0.56	80	7.6	1.6
SINK 1.50 FLOAT 1.55	3.7	20.9	84.7	5.7	0.36	0.55	82.9	4.5	1.7
SINK 1.55 FLOAT 1.60	0.7	26.9	85.4	5.8	0.46	0.55	85.1	3.1	1.8
SINK 1.60 FLOAT 1.70	2.7	32.2	88.1	6.7	0.33	0.54	86.8		
SINK 1.70 FLOAT 1.80	1.5	41.0	89.6	7.2	0.33	0.54	88.9		
SINK 1.80 FLOAT 1.90	1.4	47.6	91.0	7.9	0.34	0.54	90.3		
SINK 1.90	9.0	73.4	100	13.8	0.36	0.52	95.5		

COMMENTS: DILUTION EXCLUDED

DESCRIPTION: TELKWA SEAM 60

DATE: DECEMBER 1983

SIZE RANGE: 1x .6mm

ATTACHED

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		SULPHUR		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC %	CUM %			
FLOAT 1.30	31.7	1.5	31.7	1.5	0.61	0.61	15.9		
SINK 1.30 FLOAT 1.35	27.9	3.9	59.6	2.6	0.53	0.57	45.7		
SINK 1.35 FLOAT 1.40	10.3	6.9	69.9	3.3	0.53	0.57	64.8	52.2	1.4
SINK 1.40 FLOAT 1.45	7.1	11.2	77.8	4.1	0.45	0.55	73.9	17.6	1.5
SINK 1.45 FLOAT 1.50	2.4	13.8	80.2	4.4	0.42	0.55	79.0	8.7	1.6
SINK 1.50 FLOAT 1.55	3.9	17.2	84.1	5.0	0.43	0.54	82.2	3.9	1.7
SINK 1.55 FLOAT 1.60	2.2	22.5	86.3	5.4	0.38	0.54	85.2	3.1	1.8
SINK 1.60 FLOAT 1.70	2.0	30.1	88.3	6.0	0.34	0.54	87.3		
SINK 1.70 FLOAT 1.80	1.6	38.6	89.9	6.5	0.35	0.53	89.1		
SINK 1.80 FLOAT 1.90	1.3	47.0	91.2	7.1	0.38	0.53	90.6		
SINK 1.90	8.8	71.7	100	12.8	0.38	0.52	95.6		

COMMENTS:

DILUTION EXCLUDED

DESCRIPTION: TELKWA SEAM 6U

DATE: December 1983

SIZE RANGE: 0.6 x 0.3 mm

ATTACHED

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		SULPHUR		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	INC %	CUM %			
FLOAT 1.30	35.8	1.5	35.8	1.5	0.75	0.75	17.9		
SINK 1.30 FLOAT 1.35	17.8	3.9	53.6	2.3	0.63	0.71	41.7		
SINK 1.35 FLOAT 1.40	11.7	5.7	65.3	2.9	0.57	0.69	59.5	53.1	1.4
SINK 1.40 FLOAT 1.45	9.5	8.9	74.8	3.7	0.52	0.66	70.1	24.1	1.5
SINK 1.45 FLOAT 1.50	5.0	13.5	79.8	4.3	0.53	0.66	77.3	9.8	1.6
SINK 1.50 FLOAT 1.55	3.1	16.4	82.9	4.7	0.50	0.65	81.4	5.0	1.7
SINK 1.55 FLOAT 1.60	2.4	20.8	85.3	5.2	0.48	0.65	84.1	3.0	1.8
SINK 1.60 FLOAT 1.70	2.6	27.5	87.9	5.9	0.46	0.64	86.6		
SINK 1.70 FLOAT 1.80	1.5	36.7	89.4	6.4	0.43	0.64	88.7		
SINK 1.80 FLOAT 1.90	1.0	46.3	90.4	6.8	0.47	0.63	89.9		
SINK 1.90	9.6	70.9	100	13.0	0.59	0.63	95.2		

COMMENTS: DILUTION EXCLUDED

DESCRIP N: TELKWA SEAM 60

DATE: DECEMBER 1983

SIZE RANGE: 0.3 x 0.15 mm

ATTRITED

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		SULPHUR		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC %	CUM %			
Float 1.30	31.5	1.4	31.5	1.4	0.74	0.74	15.8		
SINK 1.30 Float 1.35	21.9	3.4	53.4	2.2	0.67	0.71	42.5		
SINK 1.35 Float 1.40	10.0	5.3	63.4	2.7	0.59	0.69	58.4	51.7	1.4
SINK 1.40 Float 1.45	9.8	8.3	73.2	3.5	0.56	0.67	68.3	24.2	1.5
SINK 1.45 Float 1.50	5.3	11.7	78.5	4.0	0.57	0.67	75.9	10	1.6
SINK 1.50 Float 1.55	3.9	16.0	82.4	4.6	0.50	0.66	80.5	4.2	1.7
SINK 1.55 Float 1.60	3.0	20.8	85.4	5.2	0.51	0.65	83.9	3.0	1.8
SINK 1.60 Float 1.70	2.2	27.6	87.6	5.7	0.51	0.65	86.5		
SINK 1.70 Float 1.80	1.6	36.7	89.2	6.3	0.51	0.65	88.4		
SINK 1.80 Float 1.90	1.1	46.8	90.3	6.8	0.54	0.65	89.8		
SINK 1.90	9.7	72.5	100	13.1	0.89	0.67	95.2		

COMMENTS:

DILUTION EXCLUDED

CLIENT: CROMS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6 LOWER BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASABILITY
 LAB NO: 5687
 DATE: SEPTEMBER 20, 1983

12 X 50 KG. BATCHES OF 100MM X 0 RAW COAL TUMBELED FOR 65 SECONDS
 WITH 150 LITRES H2O & 18 STEEL CUBES @ 20 RPM.
 WATER SOLUBLE (SOD) IN COAL AS ZS = 0.020Z

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE	
					WTZ	ASHZ
+ 50	27.40	1.50	9.40	1.83	27.40	9.40
50 X 25	16.60	1.60	11.00	1.96	44.00	10.00
25 X 9.5	13.60	1.60	16.40	2.77	57.60	11.51
9.5 X 2.0	14.20	1.30	17.10	2.22	71.80	12.62
2.0 X 1.0	8.80	1.30	13.30	1.70	80.60	12.69
1.0 X 0.6	5.00	0.90	11.30	1.51	85.60	12.61
0.6 X 0.3	4.70	1.00	13.40	1.57	90.30	12.65
0.3 X 0.15	2.80	0.80	14.40	1.64	93.10	12.71
0.15 X 0	6.90	1.40	34.50	1.53	100.00	14.21

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	21.00	2.90	0.95	21.00	2.90	0.95
1.30 - 1.35	54.90	4.80	1.19	75.90	4.27	1.12
1.35 - 1.40	4.40	8.80	1.81	80.30	4.52	1.16
1.40 - 1.45	3.10	14.40	2.29	83.40	4.89	1.20
1.45 - 1.50	1.60	19.30	2.82	85.00	5.16	1.23
1.50 - 1.55	2.40	23.50	2.89	87.40	5.66	1.26
1.55 - 1.60	2.00	27.00	5.22	89.40	6.14	1.35
1.60 - 1.70	6.20	33.00	4.23	95.60	7.88	1.53
1.70 - 1.80	2.30	37.70	6.54	97.90	8.58	1.65
1.80 - 1.90	0.40	41.10	8.55	98.30	8.72	1.68
1.90 - SINK	1.70	50.60	10.80	100.00	9.43	1.83

OK
OCT 2

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROMS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6 LOWER BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASABILITY
 LAB NO: 5687
 DATE: SEPTEMBER 20, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLDAT - 1.30	8.60	3.20	0.91	8.60	3.20	0.91
1.30 - 1.35	66.80	4.70	1.12	75.40	4.53	1.10
1.35 - 1.40	4.80	10.00	1.72	80.20	4.86	1.13
1.40 - 1.45	2.20	14.30	2.05	82.40	5.11	1.16
1.45 - 1.50	2.30	17.30	3.28	84.70	5.44	1.22
1.50 - 1.55	2.20	22.80	2.93	86.90	5.88	1.26
1.55 - 1.60	1.90	26.18	3.81	88.80	6.31	1.30
1.60 - 1.70	3.20	34.18	3.70	92.00	7.28	1.38
1.70 - 1.80	2.60	41.68	4.83	94.60	8.22	1.47
1.80 - 1.90	1.00	46.60	5.95	95.60	8.62	1.52
1.90 - SINK	4.40	63.20	11.50	100.00	11.02	1.96

OK
 07.2

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLDAT - 1.30	21.20	2.90	0.86	21.20	2.90	0.86
1.30 - 1.35	50.60	5.00	0.92	71.80	4.38	0.90
1.35 - 1.40	1.90	10.10	1.51	73.70	4.53	0.92
1.40 - 1.45	4.60	14.20	1.78	78.30	5.18	0.97
1.45 - 1.50	0.80	18.10	2.22	79.10	5.23	0.98
1.50 - 1.55	2.10	22.40	2.22	81.20	5.67	1.01
1.55 - 1.60	1.90	26.30	2.38	83.10	6.14	1.04
1.60 - 1.70	3.60	33.60	2.84	86.70	7.28	1.12
1.70 - 1.80	2.20	41.50	3.65	88.90	8.13	1.18
1.80 - 1.90	1.40	48.10	4.27	90.30	8.75	1.23
1.90 - SINK	9.70	70.80	11.10	100.00	14.77	2.19

- below
 size 2.77

CLIENT: CROMS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM & LOWER BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASABILITY
 LAB NO: 5687
 DATE: SEPTEMBER 20, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	49.80	2.80	0.98	49.80	2.80	0.98
1.30 - 1.35	17.00	5.30	0.99	66.80	3.44	0.98
1.35 - 1.40	7.20	8.50	1.22	74.00	3.93	1.01
1.40 - 1.45	3.40	13.80	1.70	77.40	4.36	1.04
1.45 - 1.50	1.40	18.20	2.08	78.80	4.61	1.05
1.50 - 1.55	1.50	22.20	2.29	80.30	4.94	1.08
1.55 - 1.60	1.40	26.40	2.60	81.70	5.30	1.10
1.60 - 1.70	1.80	33.90	2.96	83.50	5.92	1.14
1.70 - 1.80	1.50	41.30	3.10	85.00	6.55	1.18
1.80 - 1.90	1.20	47.00	3.34	86.20	7.11	1.21
1.90 - SINK	13.80	76.30	5.96	100.00	16.66	1.86

OK OCT. 2

SOMEWHAT BELOW SIZE ANALYSIS 2.22

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	55.80	2.10	1.01	55.80	2.10	1.01
1.30 - 1.35	14.20	4.50	0.96	70.00	2.59	1.00
1.35 - 1.40	9.90	6.70	0.92	79.90	3.10	0.99
1.40 - 1.45	3.50	11.10	1.26	83.40	3.43	1.00
1.45 - 1.50	1.40	16.10	1.69	84.80	3.64	1.01
1.50 - 1.55	1.00	20.20	2.05	85.80	3.83	1.02
1.55 - 1.60	1.10	25.00	2.38	86.90	4.10	1.04
1.60 - 1.70	1.10	32.40	2.65	88.00	4.46	1.06
1.70 - 1.80	1.00	40.70	2.82	89.00	4.86	1.08
1.80 - 1.90	0.80	48.70	2.78	89.80	5.25	1.10
1.90 - SINK	10.20	76.30	4.85	100.00	12.50	1.48

OK OCT. 7

SIZE 1.70

Birtley Coal & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6 LOWER BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASABILITY
 LAB NO: 5687
 DATE: SEPTEMBER 20, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	52.80	1.70	1.87	52.80	1.70	1.87
1.30 - 1.35	10.70	4.00	1.12	63.50	2.09	1.88
1.35 - 1.40	13.80	5.50	0.87	77.30	2.70	1.84
1.40 - 1.45	4.50	8.40	1.83	81.80	3.01	1.84
1.45 - 1.50	2.40	13.20	1.28	84.20	3.30	1.85
1.50 - 1.55	1.20	18.10	1.68	85.40	3.51	1.86
1.55 - 1.60	0.80	22.50	1.80	86.20	3.69	1.86
1.60 - 1.70	1.40	28.80	2.23	87.60	4.09	1.88
1.70 - 1.80	1.80	37.40	2.54	88.60	4.46	1.10
1.80 - 1.90	0.90	44.50	2.94	89.50	4.87	1.12
1.90 - SINK	10.50	75.00	4.75	100.00	12.23	1.50

OK
007

/ 5 OK.

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	52.30	1.70	1.06	52.30	1.70	1.06
1.30 - 1.35	11.50	3.50	1.82	63.80	2.02	1.85
1.35 - 1.40	12.70	5.60	0.91	76.50	2.62	1.83
1.40 - 1.45	4.90	9.00	1.89	81.40	3.00	1.83
1.45 - 1.50	1.30	13.10	1.35	82.70	3.16	1.84
1.50 - 1.55	1.80	17.30	1.52	84.50	3.46	1.85
1.55 - 1.60	1.80	22.10	1.87	85.50	3.68	1.86
1.60 - 1.70	1.50	28.70	2.22	87.00	4.11	1.88
1.70 - 1.80	1.80	37.50	2.50	88.00	4.49	1.09
1.80 - 1.90	0.90	45.60	2.83	88.90	4.91	1.11
1.90 - SINK	11.10	74.70	4.83	100.00	12.65	1.52

OK
003

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6 LOWER BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & HASABILITY
 LAB NO: 5687
 DATE: SEPTEMBER 20, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	51.80	1.70	0.89	51.80	1.70	0.89
1.30 - 1.35	10.80	3.80	0.92	62.60	2.06	0.90
1.35 - 1.40	8.10	5.20	0.87	70.70	2.42	0.89
1.40 - 1.45	7.30	7.40	0.88	78.00	2.89	0.89
1.45 - 1.50	3.20	11.30	0.97	81.20	3.22	0.89
1.50 - 1.55	2.10	17.00	1.29	83.30	3.57	0.90
1.55 - 1.60	1.10	21.90	1.53	84.40	3.81	0.91
1.60 - 1.70	1.50	27.70	1.73	85.90	4.22	0.93
1.70 - 1.80	1.20	37.00	2.24	87.10	4.67	0.94
1.80 - 1.90	0.80	45.60	2.22	87.90	5.05	0.96
1.90 - SINK	12.10	76.10	5.36	100.00	13.64	1.49

OK
057

FROTH FLOTATION TEST, air dried basis: 0.3MM X 0.15MM

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	59.20	5.10	1.10	59.20	5.10	1.10
STAGE 2	2.60	11.00	1.21	61.80	5.35	1.10
TAILINGS	38.20	25.90	2.07	100.00	13.20	1.47

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0.075MM

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	12.30	19.70	0.92	12.30	19.70	0.92
STAGE 2	7.30	24.60	0.93	19.60	21.53	0.92
TAILINGS	80.40	37.10	1.66	100.00	34.05	1.52

F.F. PARAMETERS

- 10% PULP DENSITY
- 1 MINUTE CONDITIONING WITH 0.5 LB/T
OF 4:1 = KEROSENE:MIBC
- STAGE 1 = 1ST MINUTE FROTH
- STAGE 2 = 2ND MINUTE FROTH

Birtley Coal
& Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKHA SEAM 3C BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6487
 DATE: NOVEMBER 16, 1983

12 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBLER FOR 65 SECONDS
 WITH 150 LITRES H2O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (SO4) IN COAL AS SZ = 0.025 ?

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE		
					WTZ	ASHZ	SZ
+ 50	32.70	2.10	15.30	2.50	32.70	15.30	2.50
50 X 25	16.40	1.80	17.90	2.71	49.10	16.17	2.57
25 X 9.5	15.30	1.50	22.00	3.25	64.40	17.55	2.73
9.5 X 2.0	15.40	1.30	23.30	2.84	79.80	18.66	2.75
2.0 X 1.0	4.50	1.30	21.60	2.60	84.30	18.82	2.74
1.0 X 0.6	5.60	1.00	18.80	2.51	89.90	18.82	2.73
0.6 X 0.3	3.10	0.90	21.90	2.63	93.00	18.92	2.73
0.3 X 0.15	2.20	1.00	26.00	2.66	95.20	19.08	2.72
0.15 X 0	4.80	0.80	49.80	2.79	100.00	20.56	2.73

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

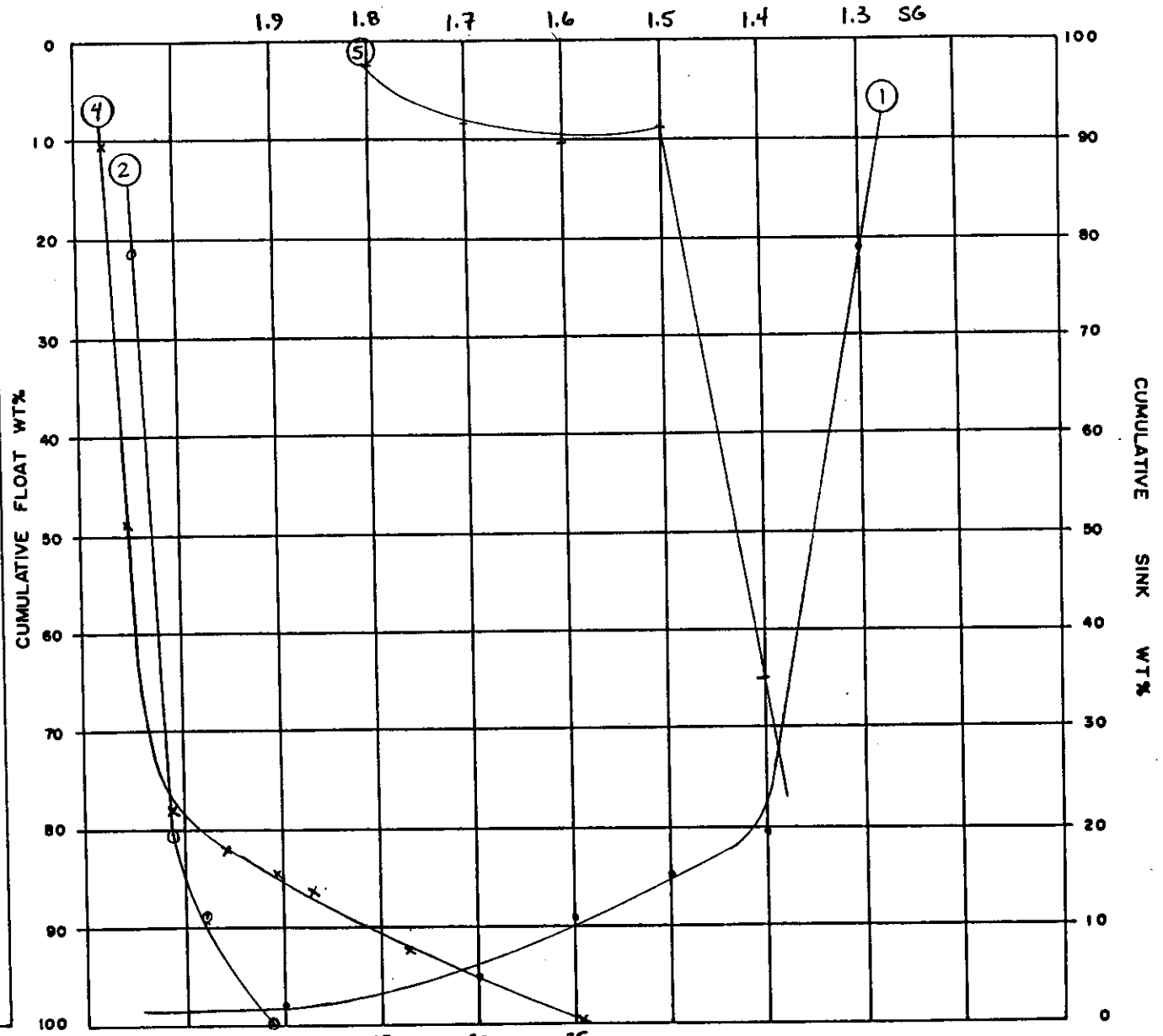
S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	0.10	2.30	1.38	0.10	2.30	1.38
1.30 - 1.35	35.30	7.80	1.83	35.40	7.78	1.83
1.35 - 1.40	30.60	11.70	2.28	66.00	9.60	2.04
1.40 - 1.45	7.20	16.70	2.35	73.20	10.30	2.07
1.45 - 1.50	11.90	20.60	2.21	85.10	11.74	2.09
1.50 - 1.55	5.40	24.10	3.89	90.50	12.48	2.20
1.55 - 1.60	1.80	27.00	5.61	92.30	12.76	2.26
1.60 - 1.70	4.10	33.60	3.95	96.40	13.65	2.33
1.70 - 1.80	0.80	40.10	8.81	97.20	13.86	2.39
1.80 - 1.90	0.30	47.50	6.90	97.50	13.97	2.40
1.90 - SINK	2.50	87.40	3.23	100.00	15.80	2.42

NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 27.4

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 6L 100±50mm 100mm Top Size DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ○
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±01 SG +

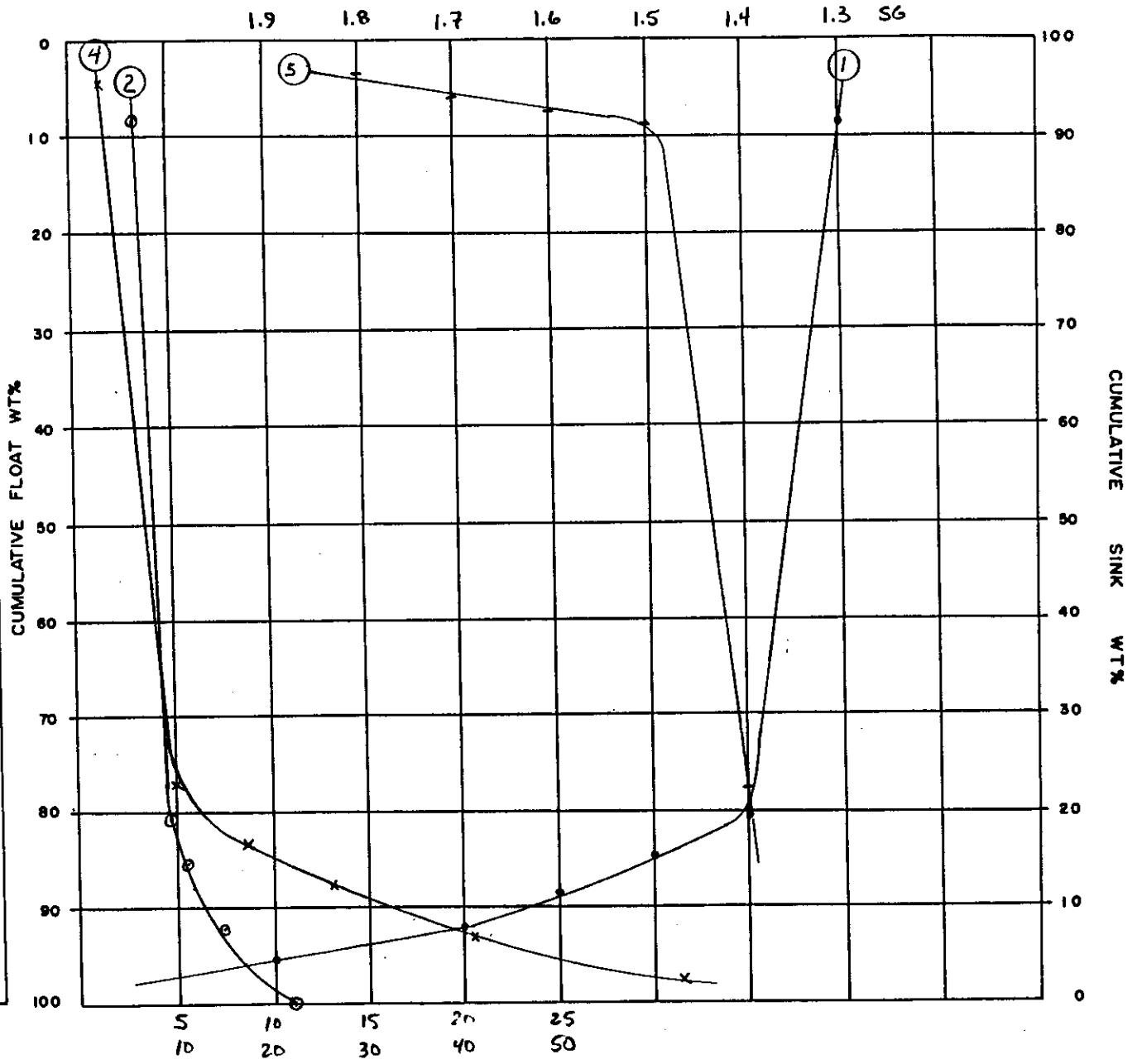
ASH % { CUMULATIVE FLOAT 5 10 15 20 25 30 40 50
 ELEMENTARY 10 20 30 40 50



NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 16.6

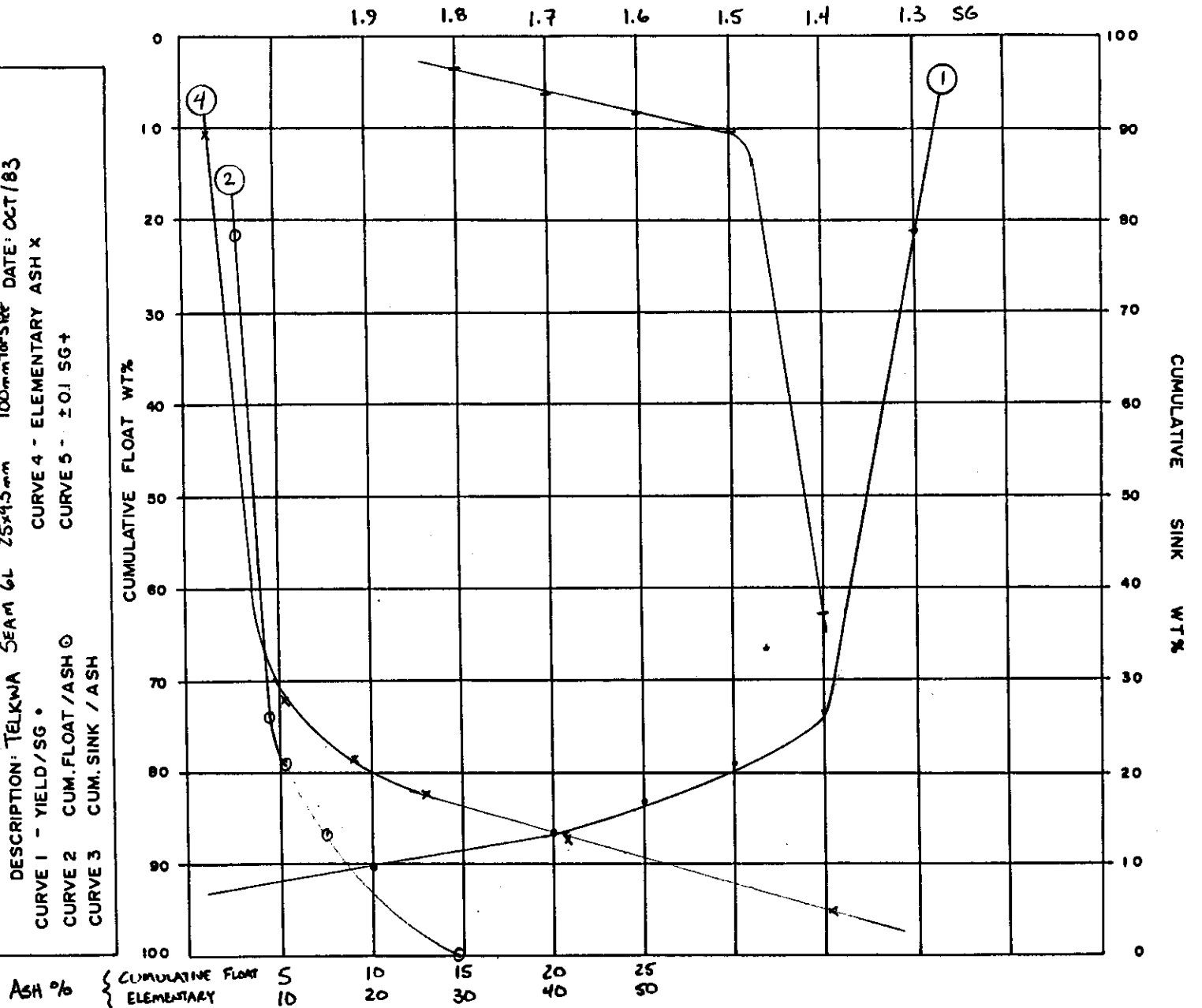
CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 6L 50x25mm 100mm TOPSIE DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ◊
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH x
 CURVE 5 - ±0.1 SG +



NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 13.6

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 6L 25x45mm 100mm TOP SIZE DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ⊙
 CURVE 3 CUM.SINK / ASH ⊙
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG +

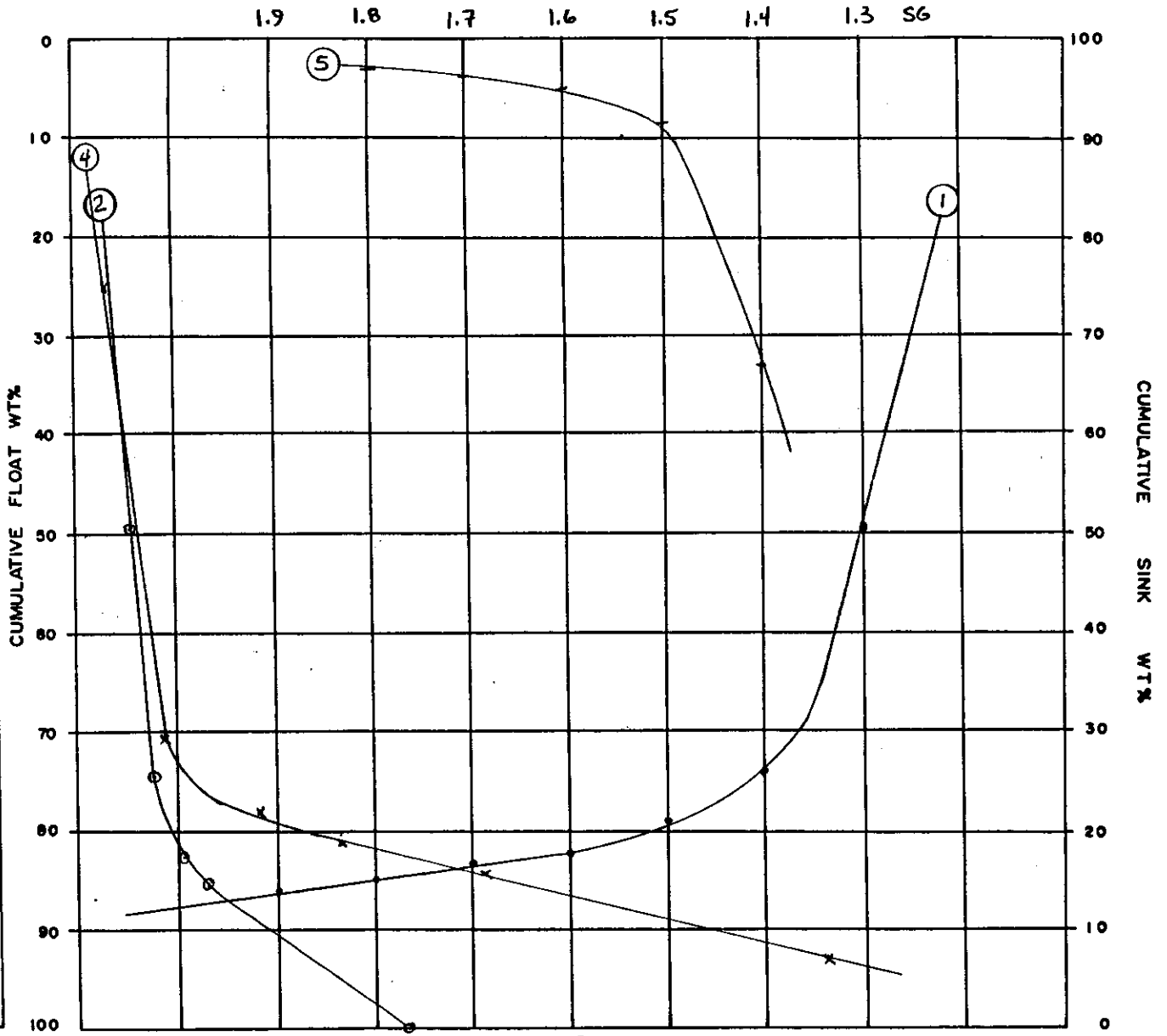


NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 14.2
3. HIGH YIELD @ SG 1.3
 COULD INDICATE VITRINITE PREDOMINANCE.
 IF - IF CURVE SHIFTS RIGHT THEN IT IS INDICATIVE OF PREDOMINANTLY LIGHTER MINERALS.
 GOOD SCREENING TOOL FOR METALLURGICAL POTENTIAL - BUT PLAY CLOSE ATTENTION TO POSITION OF CUM FLOAT ASH CURVE AS WELL - IT SHOULD BE TITLED TO THE LEFT, INDICATING VITRINITE.
 IF FSI = 0, CHECK FOR OXIDATION LEVEL - IF THIS IS LOW, THEN THE ANALYSIS INDICATES VERY GOOD LIGERATION

GROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 6L 9.5x2mm 100mm TOP SIZE DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM. FLOAT / ASH ○
 CURVE 3 CUM. SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG +

ASH % { CUMULATIVE FLOAT 5 10 15 20 25
 ELEMENTARY 10 20 30 40 50

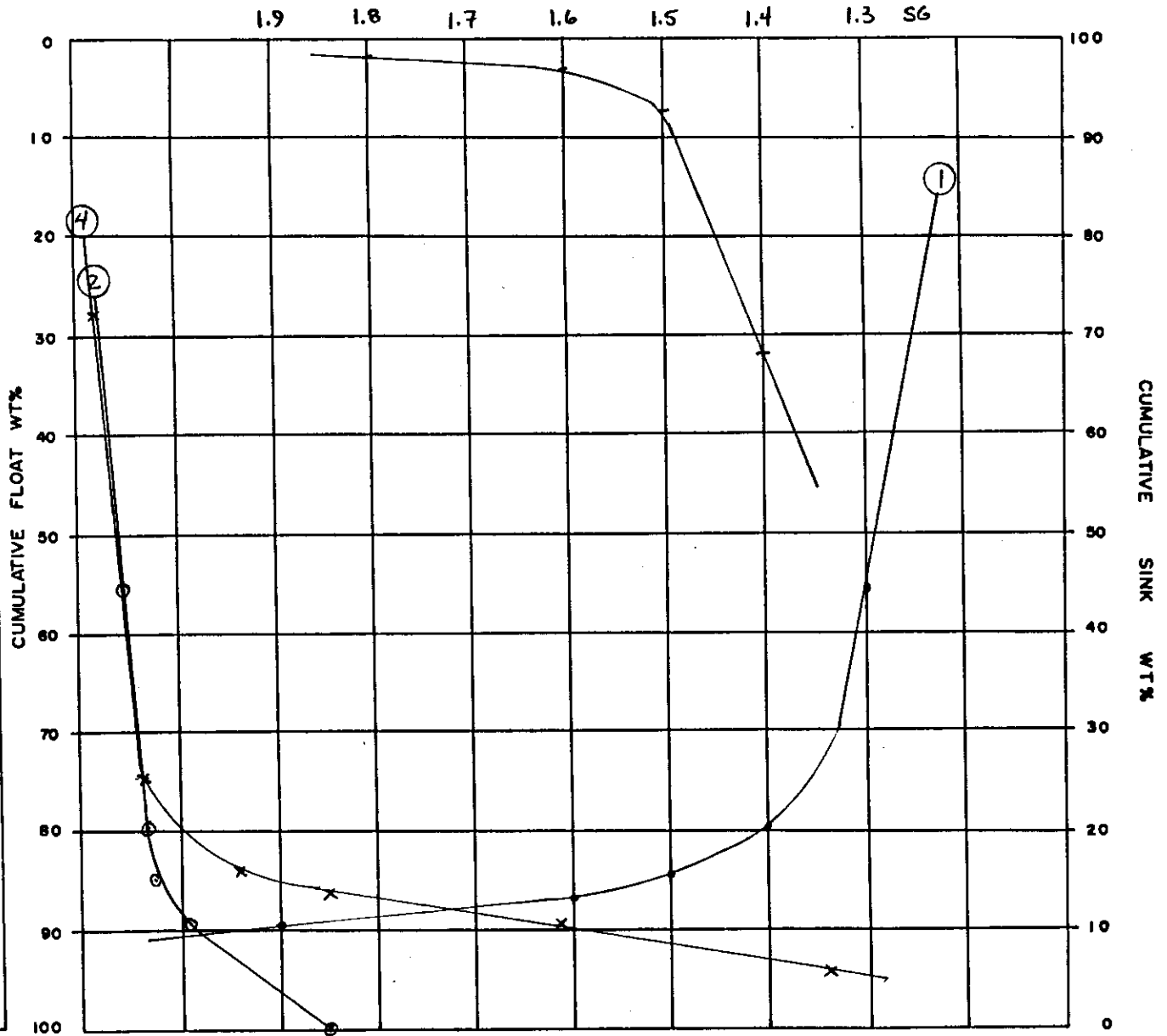


NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 8.8
3. EASE OF SEPARATING HIGH DENSITY / ASH ROCK REFLECTED BY ACCEPTABLE POSITION OF CURVE 5 - IE THE ASH DROPS RIGHT OUT QUITE EASILY.

GROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 6L 2x1mm 100mm TOP SIZE DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT / ASH ○
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG +

ASH % { CUMULATIVE FLOAT 5 10 15 20 25
 ELEMENTARY 10 20 30 40 50

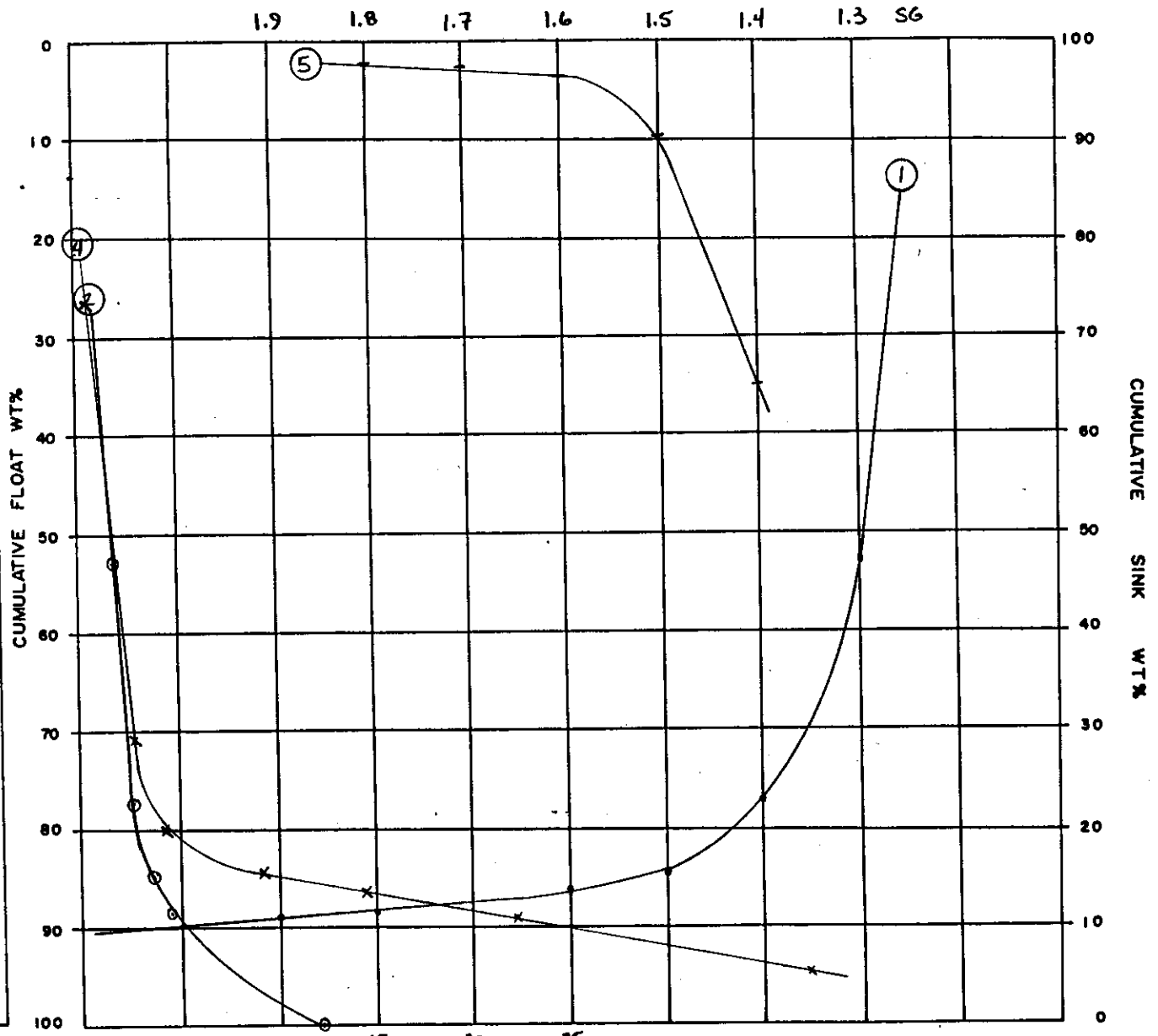


NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 5.0

GROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 6L 1x.6 mm 100mm TOP SIZE DATE: OCT/83
 CURVE 1 - YIELD/SG ◦
 CURVE 2 CUM.FLOAT/ASH ⊙
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG †

ASH % { CUMULATIVE FLOAT 5 10 15 20 25
 ELEMENTARY 10 20 30 40 50

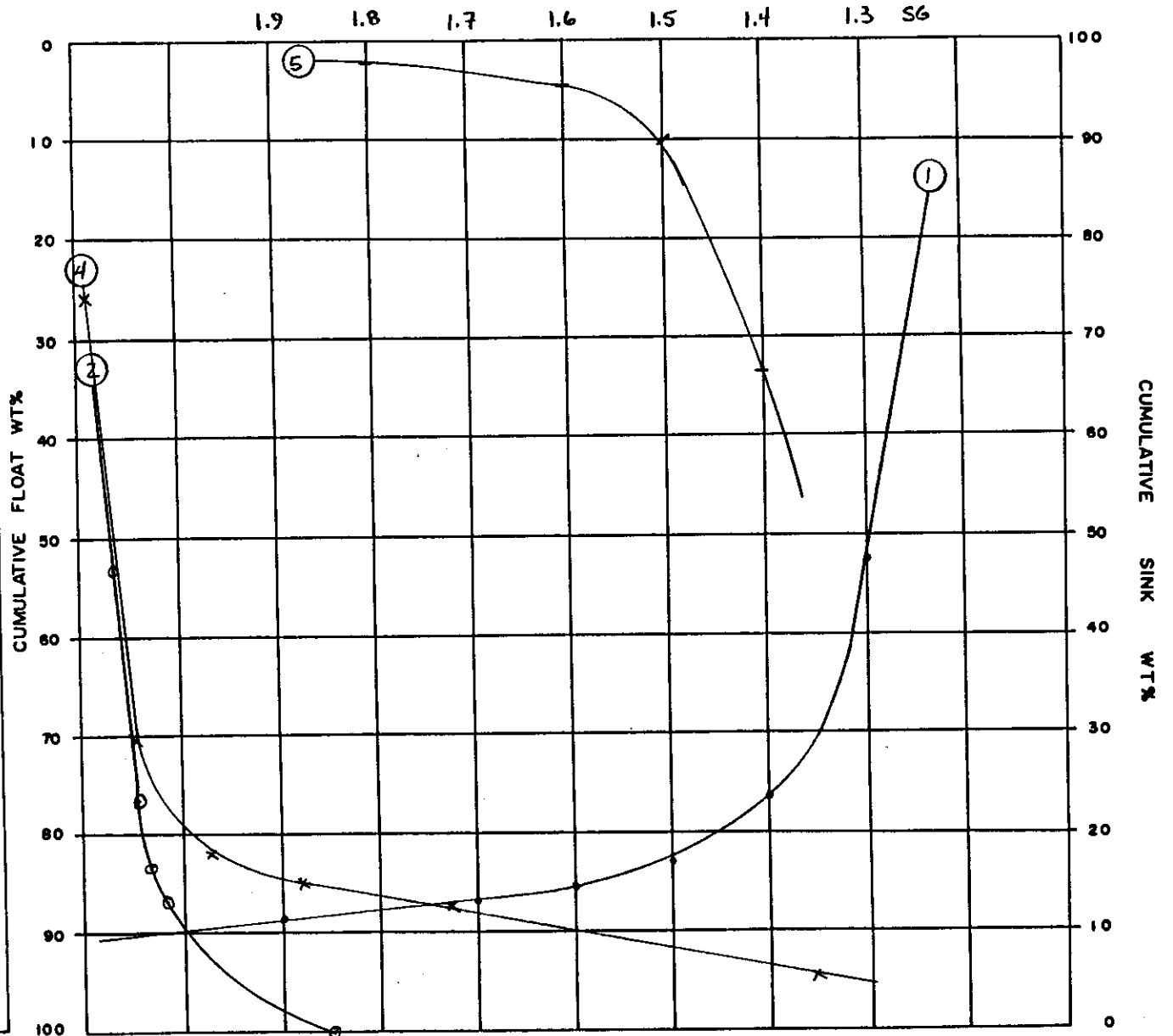


NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 4.7

GROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 6L .6x.3mm 100mm TS DATE: OCT/83
 CURVE 1 - YIELD/SG ○
 CURVE 2 CUM. FLOAT / ASH ⊙
 CURVE 3 CUM. SINK / ASH *
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG †

ASH % { CUMULATIVE FLOAT 5 10 15 20 25 30 40 50
 ELEMENTARY 10 20 30 40 50

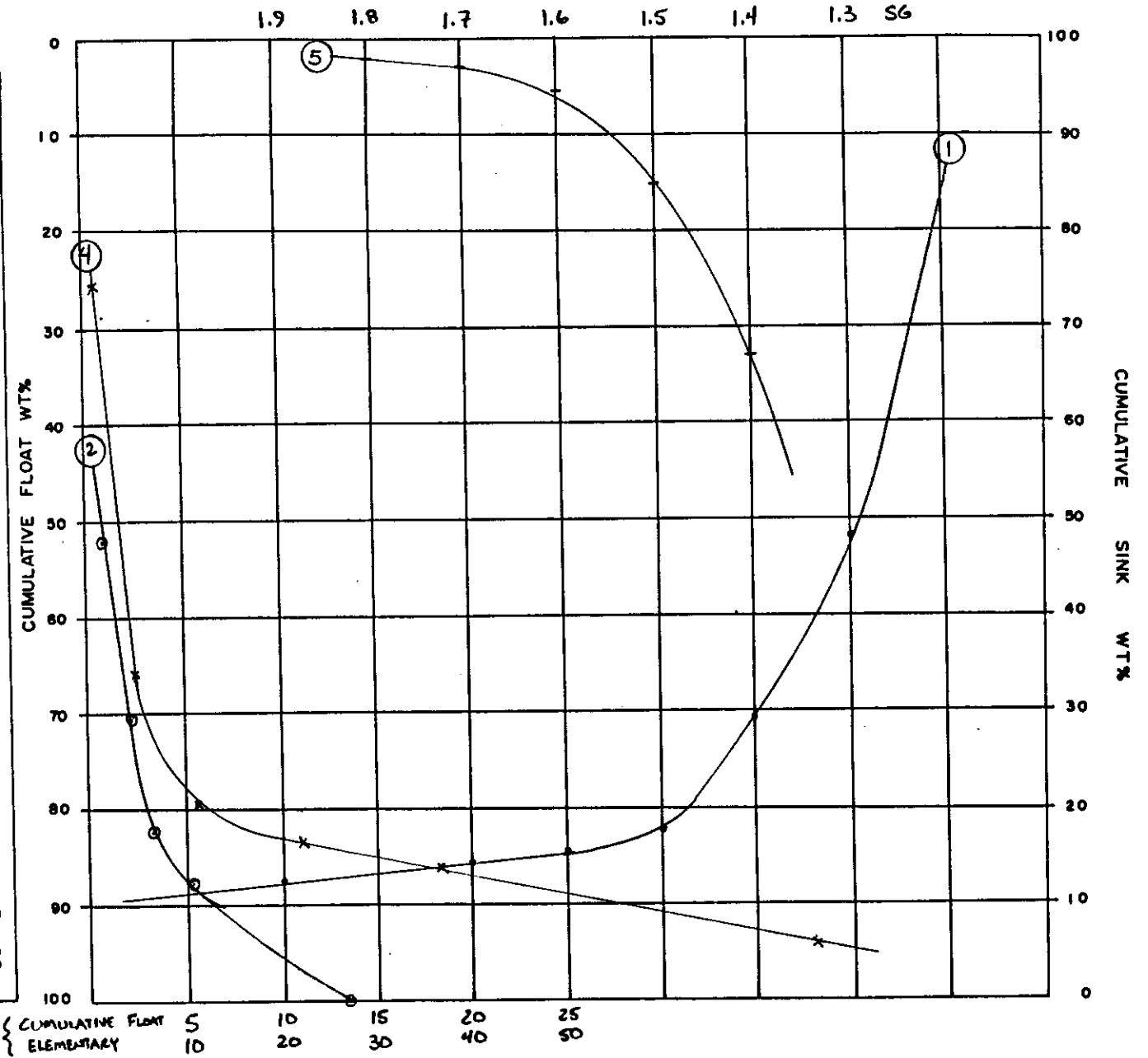


NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 2.8

GROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 6L 3x.15mm 100 TOP SIEVE DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 - CUM. FLOAT / ASH ○
 CURVE 3 - CUM. SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG †

ASH %



DESCR 1013: TELKWA SEAM 6L 100 mm TOP SIZE

DATE: OCT/83

SIZE RANGE: 100x50mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS 5%		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	INC WT %	CUM. ASH %			
FLOAT 1.30	21	2.9	21	2.9	.95	.95	10.5		
SINK 1.30 FLOAT 1.35	54.9	4.8	75.9	4.3	1.19	1.12	48.5		
SINK 1.35 FLOAT 1.40	4.4	8.8	80.3	4.5	1.81	1.16	78.1	65	1.4
SINK 1.40 FLOAT 1.45	3.1	14.4	83.4	4.9	2.29	1.20	81.9	9.2	1.5
SINK 1.45 FLOAT 1.50	1.6	19.3	85.0	5.2	2.82	1.23	84.2	10.8	1.6
SINK 1.50 FLOAT 1.55	2.4	23.5	87.4	5.7	2.09	1.26	86.2	8.6	1.7
SINK 1.55 FLOAT 1.60	2.0	27.0	89.4	6.1	5.22	1.35	88.4	2.7	1.8
SINK 1.60 FLOAT 1.70	6.2	33	95.6	7.9	4.23	1.53	92.5		
SINK 1.70 FLOAT 1.80	2.3	37.7	97.9	8.6	6.54	1.65	96.8		
SINK 1.80 FLOAT 1.90	0.4	41.1	98.3	8.7	8.55	1.68	98.1		
SINK 1.90	1.7	50.6	100	9.4	10.8	1.83	99.2		

COMMENTS :

DESCRIPTION: TELKWA SEAM 6L 100mm TOP SIZE

DATE: OCT/83

SIZE RANGE: 50x25mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS S%		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC WT%	CUM. ASH %			
FLOAT 1.30	8.6	3.2	8.6	3.2	.91	.91	4.3		
SINK 1.30 FLOAT 1.35	66.8	4.7	75.4	4.5	1.12	1.10	42		
SINK 1.35 FLOAT 1.40	4.8	10	80.2	4.9	1.72	1.13	77.8	78.2	1.4
SINK 1.40 FLOAT 1.45	2.2	14.3	82.4	5.1	2.05	1.16	81.3	8.8	1.5
SINK 1.45 FLOAT 1.50	2.3	17.3	84.7	5.4	3.28	1.22	83.6	7.5	1.6
SINK 1.50 FLOAT 1.55	2.2	22.8	86.9	5.9	2.93	1.26	85.8	6	1.7
SINK 1.55 FLOAT 1.60	1.9	26.1	88.8	6.3	3.01	1.30	87.9	3.7	1.8
SINK 1.60 FLOAT 1.70	3.2	34.1	92	7.3	3.70	1.38	90.4		
SINK 1.70 FLOAT 1.80	2.6	41.6	94.6	8.2	4.83	1.47	93.3		
SINK 1.80 FLOAT 1.90	1.0	46.6	95.6	8.6	5.95	1.52	95.1		
SINK 1.90	4.4	63.2	100	11.0	11.5	1.96	97.8		

COMMENTS :

DESCRIPTION: TELKWA SEAM 6L 100 mm TOP SIZE

DATE: OCT/83

SIZE RANGE: 25 x 9.5 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS 5%		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	INC WT %	CUM. ASH %			
FLOAT 1.30	21.2	2.9	21.2	2.9	.86	.86	10.6		
SINK 1.30 FLOAT 1.35	50.6	5.0	71.8	4.4	.92	.90	46.5		
SINK 1.35 FLOAT 1.40	1.9	10.1	73.7	4.5	1.51	.92	72.8	62.9	1.4
SINK 1.40 FLOAT 1.45	4.6	14.2	78.3	5.1	1.78	.97	76	10.2	1.5
SINK 1.45 FLOAT 1.50	.8	18.1	79.1	5.2	2.22	.98	78.7	8.3	1.6
SINK 1.50 FLOAT 1.55	2.1	22.4	81.2	5.7	2.22	1.01	80.2	6.3	1.7
SINK 1.55 FLOAT 1.60	1.9	26.3	83.1	6.1	2.38	1.04	82.2	3.9	1.8
SINK 1.60 FLOAT 1.70	3.6	33.6	86.7	7.3	2.84	1.12	84.9		
SINK 1.70 FLOAT 1.80	2.2	41.5	88.9	8.1	3.65	1.18	87.8		
SINK 1.80 FLOAT 1.90	1.4	48.1	90.3	8.8	4.27	1.23	89.6		
SINK 1.90	9.7	70.8	100	14.8	11.10	2.19	95.2		

COMMENTS:

DESCRIPTION: TELKWA SEAM 6L 100mm TOP SIZE

DATE: OCT/83

SIZE RANGE: 9.5x2mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS SG		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC WT%	CUM. ASH %			
Float 1.30	49.8	2.8	49.8	2.8	0.98	.98	24.9		
SINK 1.30 Float 1.35	17.0	5.3	66.8	3.4	0.99	.98	58.3		
SINK 1.35 Float 1.40	7.2	8.5	74	3.9	1.22	1.01	70.4	33	1.4
SINK 1.40 Float 1.45	3.4	13.8	77.4	4.4	1.70	1.04	75.7	8.8	1.5
SINK 1.45 Float 1.50	1.4	18.2	78.8	4.6	2.08	1.05	78.1	5.4	1.6
SINK 1.50 Float 1.55	1.5	22.2	80.3	4.9	2.29	1.08	79.6	3.8	1.7
SINK 1.55 Float 1.60	1.4	26.4	81.7	5.3	2.60	1.10	81	3.1	1.8
SINK 1.60 Float 1.70	1.8	33.9	83.5	5.9	2.96	1.14	82.6		
SINK 1.70 Float 1.80	1.5	41.3	85	6.6	3.10	1.18	84.3		
SINK 1.80 Float 1.90	1.2	47	86.2	7.1	3.34	1.21	85.6		
SINK 1.90	13.8	76.3	100	16.7	5.96	1.86	93.1		

COMMENTS :

DESCRIPTION: TELKWA SEAM 6L 100mm TOP SIZE

DATE: OCT/83

SIZE RANGE: 2x1mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS SG		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC. WT%	CUM. ASH %			
FLOAT 1.30	55.8	2.1	55.8	2.1	1.01	1.01	27.9		
SINK 1.30 FLOAT 1.35	14.2	4.5	70.0	2.6	0.96	1.00	62.9		
SINK 1.35 FLOAT 1.40	9.9	6.7	79.9	3.1	0.92	0.99	75	31.9	1.4
SINK 1.40 FLOAT 1.45	3.5	11.1	83.4	3.4	1.26	1.00	81.7	7.7	1.5
SINK 1.45 FLOAT 1.50	1.4	16.1	84.8	3.6	1.69	1.01	84.1	3.5	1.6
SINK 1.50 FLOAT 1.55	1.0	20.2	85.8	3.8	2.05	1.02	85.3	2.3	1.7
SINK 1.55 FLOAT 1.60	1.1	25	86.9	4.1	2.38	1.04	86.4	2.0	1.8
SINK 1.60 FLOAT 1.70	1.1	32.4	88.0	4.5	2.65	1.06	87.5		
SINK 1.70 FLOAT 1.80	1.0	40.7	89.0	4.9	2.82	1.08	88.5		
SINK 1.80 FLOAT 1.90	0.8	48.7	89.8	5.3	2.78	1.10	89.4		
SINK 1.90	10.2	76.3	100	12.5	4.85	1.18	94.9		

COMMENTS:

DESCRIPTION: TELKWA SEAM 6L 100mm TOP SIZE

DATE: OCT/83

SIZE RANGE: 1x.6mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS 5%		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC WT%	CUM ASH%			
FLOAT 1.30	52.8	1.7	52.8	1.7	1.07	1.07	26.4		
SINK 1.30 FLOAT 1.35	10.7	4.0	63.5	2.1	1.12	1.08	58.2		
SINK 1.35 FLOAT 1.40	13.8	5.5	77.3	2.7	0.87	1.04	70.4	34.9	1.4
SINK 1.40 FLOAT 1.45	4.5	8.4	81.8	3.0	1.03	1.04	80	9.9	1.5
SINK 1.45 FLOAT 1.50	2.4	13.2	84.2	3.3	1.28	1.05	83	3.8	1.6
SINK 1.50 FLOAT 1.55	1.2	18.1	85.4	3.5	1.68	1.06	84.8	2.7	1.7
SINK 1.55 FLOAT 1.60	0.8	22.5	86.2	3.7	1.80	1.06	85.8	2.1	1.8
SINK 1.60 FLOAT 1.70	1.4	28.8	87.6	4.1	2.23	1.08	86.9		
SINK 1.70 FLOAT 1.80	1.0	37.4	88.6	4.5	2.54	1.10	88.1		
SINK 1.80 FLOAT 1.90	0.9	44.5	89.5	4.9	2.94	1.12	89.1		
SINK 1.90	10.5	75.0	100	12.2	4.75	1.50	94.8		

COMMENTS:

DESCRIPTION: TELKWA SEAM 6L 100mm TOP SIZE

DATE: OCT/83

SIZE RANGE: .6 x .3 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS SG		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC WT%	CUM ASH%			
FLOAT 1.30	52.3	1.70	52.3	1.7	1.06	1.06	26.2		
SINK 1.30 FLOAT 1.35	11.5	3.50	63.8	2.0	1.02	1.05	58.1		
SINK 1.35 FLOAT 1.40	12.7	5.60	76.5	2.6	0.91	1.03	70.2	33.8	1.4
SINK 1.40 FLOAT 1.45	4.9	9	81.4	3.0	1.09	1.03	79	10	1.5
SINK 1.45 FLOAT 1.50	1.3	13.1	82.7	3.2	1.35	1.04	82.1	4.8	1.6
SINK 1.50 FLOAT 1.55	1.8	17.3	84.5	3.5	1.52	1.05	83.6	2.8	1.7
SINK 1.55' FLOAT 1.60	1.0	22.1	85.5	3.7	1.87	1.06	85	2.1	1.8
SINK 1.60 FLOAT 1.70	1.5	28.7	87	4.1	2.22	1.08	86.3		
SINK 1.70 FLOAT 1.80	1.0	37.5	88	4.5	2.5	1.09	87.5		
SINK 1.80 FLOAT 1.90	0.9	45.6	88.9	4.9	2.83	1.11	88.5		
SINK 1.90	11.1	74.7	100	12.7	4.83	1.52	94.5		

COMMENTS :

DESCRIPTION: TELKWA SEAM 6L 100 mm TOP SIZE

DATE: OCT/83

SIZE RANGE: .3 x .15 mm

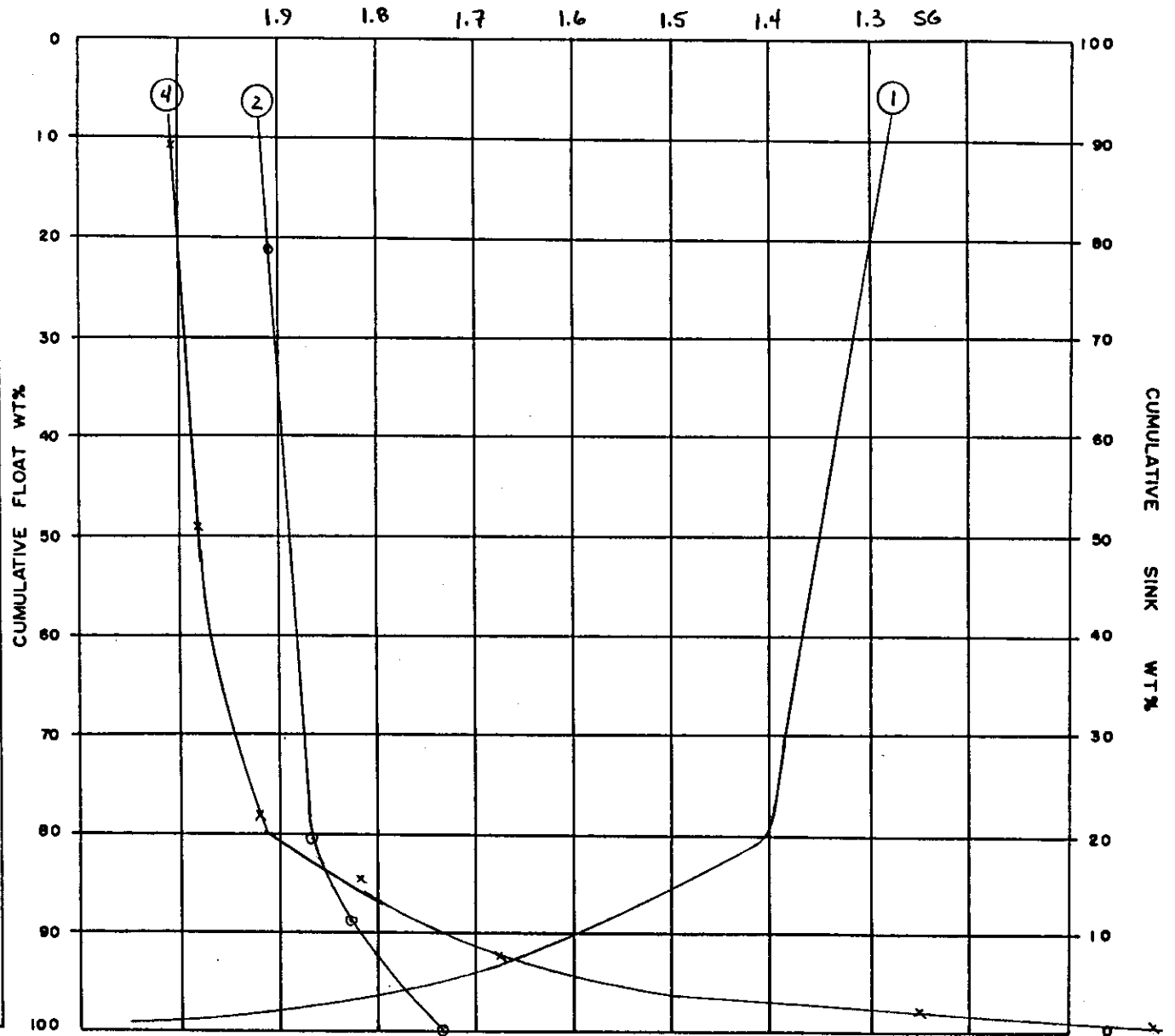
SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS SG		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC. WT%	CUM. ASH%			
FLOAT 1.30	51.8	1.70	51.8	1.7	.89	.89	25.9		
SINK 1.30 FLOAT 1.35	10.8	3.8	62.6	2.1	.92	.90	57.2		
SINK 1.35 FLOAT 1.40	8.1	5.2	70.7	2.4	.87	.89	66.6	33	1.4
SINK 1.40 FLOAT 1.45	7.3	7.4	78	2.9	.88	.89	74.4	15.4	1.5
SINK 1.45 FLOAT 1.50	3.2	11.3	81.2	3.2	.97	.89	79.6	5.3	1.6
SINK 1.50 FLOAT 1.55	2.1	17	83.3	3.6	1.29	.90	82.3	3.0	1.7
SINK 1.55 FLOAT 1.60	1.1	21.9	84.4	3.8	1.53	.91	83.9	2.3	1.8
SINK 1.60 FLOAT 1.70	1.5	27.7	85.9	4.2	1.73	.93	85.2		
SINK 1.70 FLOAT 1.80	1.2	37	87.1	4.7	2.24	.94	86.5		
SINK 1.80 FLOAT 1.90	.8	45.6	87.9	5.1	2.22	.96	87.5		
SINK 1.90	12.1	76.1	100	13.6	5.36	1.49	94		

COMMENTS:

NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 27.4

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 6L 100% 50mm SULPHUR DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM. FLOAT / ASH ◊
 CURVE 3 CUM. SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ± 0.1 SG +



CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKHA SEAM 6L BULK SAMPLE
 50MM X 0 ATTRITION & WASHABILITY
 LAB NO: 6645
 DATE: SEPTEMBER 23, 1983

100MM X 0 RAW COAL CRUSHED TO MINUS 50MM (IN JAW CRUSHER)
 ONE SPLIT FOR RAW SIZE ANALYSIS AND ANOTHER
 SPLIT FOR WET ATTRITION/WASHABILITY.
 8 X 50 KG. BATCHES OF 50MM X 0 RAW COAL TUMBLED FOR 65 SECONDS
 WITH 150 LITRES H₂O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (SD4) IN COAL AS ZS = 0.024%

SIZE AND RAW ANALYSIS, air dried basis - BEFORE ATTRITION

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE	
					WTZ	ASHZ
50 X 25	33.80	1.60	11.70	2.17	33.80	11.70
25 X 9.5	24.80	1.80	14.50	2.63	58.60	12.88
9.5 X 2.0	17.10	0.80	16.00	1.90	75.70	13.59
2.0 X 1.0	8.40	0.80	15.40	1.62	84.10	13.77
1.0 X 0.6	6.10	0.90	14.50	1.56	90.20	13.82
0.6 X 0.3	3.40	1.10	15.00	1.63	93.60	13.86
0.3 X 0.15	2.60	1.10	15.50	1.58	96.20	13.91
0.15 X 0	3.80	1.20	30.30	1.70	100.00	14.53

SIZE AND RAW ANALYSIS, air dried basis - AFTER ATTRITION

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE		SZ ₀
					WTZ	ASHZ	
50 X 25	27.60	1.50	11.40	2.23	27.60	11.40	2.23
25 X 9.5	20.60	1.50	14.90	2.08	48.20	12.90	2.17
9.5 X 2.0	20.20	1.30	14.30	2.12	68.40	13.31	2.15
2.0 X 1.0	9.50	1.30	13.50	1.60	77.90	13.33	2.08
1.0 X 0.6	6.50	1.10	12.60	1.58	84.40	13.28	2.05
0.6 X 0.3	5.10	1.20	13.90	1.63	89.50	13.31	2.02
0.3 X 0.15	2.90	1.20	15.80	1.85	92.40	13.39	2.02
0.15 X 0	7.60	0.80	37.30	1.61	100.00	15.21	1.99

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6L BULK SAMPLE
 50MM X 0 ATTRITION & WASHABILITY
 LAB NO: 6645 - ATTRITED COAL
 DATE: SEPTEMBER 23, 1983

FLOAT-SINK ANALYSIS, air dried basis: + 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	52.10	4.00	1.07	52.10	4.00	1.07
1.30 - 1.35	13.80	5.40	1.14	65.90	4.29	1.08
1.35 - 1.40	10.30	8.70	1.67	76.20	4.89	1.16
1.40 - 1.45	2.60	14.70	2.33	78.80	5.21	1.20
1.45 - 1.50	1.40	17.40	2.95	80.20	5.43	1.23
1.50 - 1.55	2.10	22.60	3.22	82.30	5.86	1.28
1.55 - 1.60	2.90	26.30	4.10	85.20	6.56	1.38
1.60 - 1.70	5.60	34.30	4.20	90.80	8.27	1.55
1.70 - 1.80	3.40	41.50	5.26	94.20	9.47	1.69
1.80 - 1.90	1.50	46.00	6.52	95.70	10.04	1.76
1.90 - SINK	4.30	60.40	12.70	100.00	12.21	2.23

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	48.00	3.50	0.98	48.00	3.50	0.98
1.30 - 1.35	20.30	5.60	1.23	68.30	4.12	1.05
1.35 - 1.40	7.60	9.60	1.70	75.90	4.67	1.12
1.40 - 1.45	2.40	14.20	2.46	78.30	4.96	1.16
1.45 - 1.50	1.80	19.20	2.36	80.10	5.28	1.19
1.50 - 1.55	2.10	23.30	2.75	82.20	5.74	1.23
1.55 - 1.60	1.40	26.70	2.99	83.60	6.10	1.26
1.60 - 1.70	3.30	33.70	3.88	86.90	7.14	1.36
1.70 - 1.80	1.80	41.50	4.55	88.70	7.84	1.42
1.80 - 1.90	1.10	47.70	5.34	89.80	8.33	1.47
1.90 - SINK	10.20	77.20	9.53	100.00	15.35	2.29

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELJWA SEAM 6L BULK SAMPLE
 50MM X 0 ATTRITION & WASHABILITY
 LAB NO: 6645 - ATTRITED COAL
 DATE: SEPTEMBER 23, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	44.50	2.30	0.98	44.50	2.30	0.98
1.30 - 1.35	22.00	4.10	0.97	66.50	2.90	0.98
1.35 - 1.40	10.10	7.50	1.26	76.60	3.50	1.01
1.40 - 1.45	2.80	12.50	1.82	79.40	3.82	1.04
1.45 - 1.50	1.30	16.60	2.19	80.70	4.03	1.06
1.50 - 1.55	2.20	21.00	2.41	82.90	4.48	1.10
1.55 - 1.60	1.40	26.00	2.91	84.30	4.83	1.13
1.60 - 1.70	2.30	33.60	3.61	86.60	5.60	1.19
1.70 - 1.80	1.40	41.20	3.97	88.00	6.16	1.24
1.80 - 1.90	1.20	48.70	4.44	89.20	6.74	1.28
1.90 - SINK	10.80	80.20	6.56	100.00	14.67	1.85

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	48.90	2.10	1.01	48.90	2.10	1.01
1.30 - 1.35	15.90	4.50	1.04	64.80	2.69	1.02
1.35 - 1.40	12.30	5.90	1.02	77.10	3.20	1.02
1.40 - 1.45	4.30	9.40	1.25	81.40	3.53	1.03
1.45 - 1.50	1.60	14.00	1.73	83.00	3.73	1.04
1.50 - 1.55	1.40	18.60	2.24	84.40	3.98	1.06
1.55 - 1.60	1.10	23.20	2.66	85.50	4.22	1.08
1.60 - 1.70	1.60	29.40	3.15	87.10	4.69	1.12
1.70 - 1.80	1.20	39.10	3.70	88.30	5.15	1.16
1.80 - 1.90	0.80	46.00	4.09	89.10	5.52	1.18
1.90 - SINK	10.90	83.00	5.29	100.00	13.97	1.63

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6L BULK SAMPLE
 50MM X 0 ATTRITION & WASHABILITY
 LAB NO: 6645 - ATTRITED COAL
 DATE: SEPTEMBER 23, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	45.00	1.70	1.01	45.00	1.70	1.01
1.30 - 1.35	25.60	4.30	1.09	70.60	2.64	1.04
1.35 - 1.40	11.00	7.20	1.36	81.60	3.26	1.08
1.40 - 1.45	2.10	11.20	1.61	83.70	3.46	1.10
1.45 - 1.50	1.50	15.40	1.82	85.20	3.67	1.11
1.50 - 1.55	0.60	19.20	2.29	85.80	3.78	1.12
1.55 - 1.60	1.10	22.60	2.51	86.90	4.01	1.13
1.60 - 1.70	1.40	29.70	3.12	88.30	4.42	1.17
1.70 - 1.80	0.90	38.20	3.46	89.20	4.76	1.19
1.80 - 1.90	0.80	44.60	3.78	90.00	5.12	1.21
1.90 - SINK	10.00	80.30	3.84	100.00	12.63	1.47

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	46.20	1.60	1.08	46.20	1.60	1.08
1.30 - 1.35	21.30	4.00	1.01	67.50	2.36	1.06
1.35 - 1.40	9.30	6.20	0.99	76.80	2.82	1.05
1.40 - 1.45	4.20	9.00	1.08	81.00	3.14	1.05
1.45 - 1.50	1.80	13.80	1.39	82.80	3.37	1.06
1.50 - 1.55	1.20	18.70	1.83	84.00	3.59	1.07
1.55 - 1.60	1.00	22.80	2.15	85.00	3.82	1.08
1.60 - 1.70	1.40	28.70	2.50	86.40	4.22	1.11
1.70 - 1.80	1.00	38.10	2.93	87.40	4.61	1.13
1.80 - 1.90	0.90	45.70	3.17	88.30	5.03	1.15
1.90 - SINK	11.70	81.90	4.76	100.00	14.02	1.57

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM & L BULK SAMPLE
 50MM X 0 ATTRITION & WASHABILITY
 LAB NO: 6645 - ATTRITED COAL
 DATE: SEPTEMBER 23, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	45.30	1.80	1.05	45.30	1.80	1.05
1.30 - 1.35	14.80	4.10	0.98	60.10	2.37	1.03
1.35 - 1.40	13.80	6.10	0.96	73.90	3.06	1.02
1.40 - 1.45	4.20	10.00	1.12	78.10	3.44	1.02
1.45 - 1.50	1.80	12.70	1.31	79.90	3.65	1.03
1.50 - 1.55	1.30	17.90	1.65	81.20	3.87	1.04
1.55 - 1.60	1.10	22.50	2.04	82.30	4.12	1.05
1.60 - 1.70	1.80	29.30	2.37	84.10	4.66	1.08
1.70 - 1.80	0.70	38.80	2.83	84.80	4.94	1.10
1.80 - 1.90	1.30	46.20	3.20	86.10	5.57	1.13
1.90 - SINK	13.90	82.50	5.57	100.00	16.26	1.75

FROTH FLOTATION TEST, air dried basis: 0.3MM X 0.15MM

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	62.40	6.20	1.26	62.40	6.20	1.26
STAGE 2	2.80	12.80	1.28	65.20	6.48	1.26
TAILINGS	34.80	34.80	3.14	100.00	16.34	1.91

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	19.30	19.80	1.04	19.30	19.80	1.04
STAGE 2	7.80	27.40	1.13	27.10	21.99	1.07
TAILINGS	72.90	43.40	1.85	100.00	37.60	1.64

- F.F. PARAMETERS:
- 10% PULP DENSITY
 - 1 MINUTE CONDITIONING WITH 0.5LB/TONNE
OF 4:1 = KEROSENE:H₂O
 - STAGE 1 = 1ST MINUTE FROTH
 - STAGE 2 = 2ND MINUTE FROTH

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD.

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6 FULL BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6727
 DATE: NOVEMBER 30, 1983

12 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBLED FOR 55 SECONDS
 WITH 150 LITRES H2O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (SO4) IN COAL AS SZ = 0.017

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE		
					WTZ	ASHZ	SZ
+ 50	14.80	2.30	8.00	0.48	14.80	8.00	0.48
50 X 25	11.80	2.30	9.30	0.47	26.60	8.58	0.48
25 X 9.5	16.90	2.20	11.20	0.52	43.50	9.60	0.49
9.5 X 2.0	22.50	1.80	11.10	0.51	66.00	10.11	0.50
2.0 X 1.0	6.70	1.80	10.40	0.52	72.70	10.14	0.50
X 0.6	9.20	0.70	10.50	0.52	81.90	10.18	0.50
0.6 X 0.3	4.80	0.70	11.00	0.57	86.70	10.22	0.51
0.3 X 0.15	3.00	0.70	12.50	0.57	89.70	10.30	0.51
0.15 X 0	10.30	0.70	43.60	0.81	100.00	13.73	0.54

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	25.70	3.00	0.52	25.70	3.00	0.52
1.30 - 1.35	44.70	4.40	0.47	70.40	3.89	0.49
1.35 - 1.40	13.50	9.10	0.45	83.90	4.73	0.48
1.40 - 1.45	4.60	16.70	0.81	88.50	5.35	0.50
1.45 - 1.50	3.20	19.90	0.38	91.70	5.86	0.49
1.50 - 1.55	3.20	25.80	0.36	94.90	6.53	0.49
1.55 - 1.60	0.40	27.70	0.35	95.30	6.62	0.49
1.60 - 1.70	3.20	32.70	0.27	98.50	7.47	0.48
1.70 - 1.80	0.20	39.90	0.23	98.70	7.53	0.48
1.80 - 1.90	0.10	53.90	0.22	98.80	7.58	0.48
1.90 - SINK	1.20	74.90	0.31	100.00	8.39	0.48

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WESTERN STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6 FULL BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6727
 DATE: NOVEMBER 30, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	34.90	3.00	0.51	34.90	3.00	0.51
1.30 - 1.35	36.70	4.90	0.49	71.60	3.97	0.50
1.35 - 1.40	11.50	9.30	0.43	83.10	4.71	0.49
1.40 - 1.45	3.50	14.60	0.42	86.60	5.11	0.49
1.45 - 1.50	2.60	20.40	0.43	89.20	5.56	0.49
1.50 - 1.55	2.20	25.00	0.45	91.40	6.02	0.48
1.55 - 1.60	1.60	29.70	0.34	93.00	6.43	0.48
1.60 - 1.70	2.40	35.60	0.30	95.40	7.17	0.48
1.70 - 1.80	1.00	41.90	0.34	96.40	7.53	0.48
1.80 - 1.90	0.60	50.80	0.29	97.00	7.79	0.48
1.90 - SINK	3.00	74.30	0.16	100.00	9.79	0.47

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	27.00	2.70	0.52	27.00	2.70	0.52
1.30 - 1.35	36.10	4.80	0.53	63.10	3.90	0.53
1.35 - 1.40	16.00	9.40	0.46	79.10	5.01	0.51
1.40 - 1.45	5.80	15.50	0.43	84.90	5.73	0.51
1.45 - 1.50	2.50	20.10	0.45	87.40	6.14	0.51
1.50 - 1.55	2.00	25.10	0.42	89.40	6.57	0.50
1.55 - 1.60	1.60	30.00	0.43	91.00	6.98	0.50
1.60 - 1.70	3.10	35.80	0.28	94.10	7.93	0.49
1.70 - 1.80	1.30	43.80	0.38	95.40	8.42	0.49
1.80 - 1.90	0.60	50.90	0.43	96.00	8.68	0.49
1.90 - SINK	4.00	76.00	0.18	100.00	11.37	0.48

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELUKA SEAM 6 FULL BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6727
 DATE: NOVEMBER 30, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	20.90	1.90	0.60	20.90	1.90	0.60
1.30 - 1.35	46.00	4.80	0.52	66.90	3.89	0.54
1.35 - 1.40	10.50	8.90	0.48	77.40	4.57	0.54
1.40 - 1.45	7.70	13.60	0.44	85.10	5.39	0.53
1.45 - 1.50	2.70	19.40	0.42	87.80	5.82	0.52
1.50 - 1.55	1.60	24.70	0.40	89.40	6.16	0.52
1.55 - 1.60	1.00	28.70	0.37	90.40	6.41	0.52
1.60 - 1.70	2.60	35.60	0.33	93.00	7.22	0.51
1.70 - 1.80	1.10	43.40	0.36	94.10	7.65	0.51
1.80 - 1.90	0.70	49.50	0.49	94.80	7.96	0.51
1.90 - SINK	5.20	78.30	0.38	100.00	11.61	0.51

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	31.40	1.80	0.60	31.40	1.80	0.60
1.30 - 1.35	31.50	4.30	0.55	62.90	3.05	0.57
1.35 - 1.40	14.30	7.40	0.45	77.20	3.86	0.55
1.40 - 1.45	8.70	12.70	0.43	85.90	4.75	0.54
1.45 - 1.50	3.10	19.00	0.44	89.00	5.25	0.54
1.50 - 1.55	1.70	23.00	0.41	90.70	5.58	0.53
1.55 - 1.60	1.00	27.50	0.37	91.70	5.82	0.53
1.60 - 1.70	1.90	33.90	0.35	93.60	6.39	0.53
1.70 - 1.80	1.10	42.30	0.38	94.70	6.81	0.53
1.80 - 1.90	0.50	50.00	0.38	95.20	7.03	0.53
1.90 - SINK	4.80	77.00	0.43	100.00	10.39	0.52

CLIENT: CROMS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6 FULL BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 677
 DATE: NOVEMBER 30, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	38.00	2.10	0.61	38.00	2.10	0.61
1.30 - 1.35	25.70	4.70	0.58	63.70	3.15	0.60
1.35 - 1.40	9.30	7.50	0.48	73.00	3.70	0.58
1.40 - 1.45	9.60	11.10	0.51	82.60	4.56	0.57
1.45 - 1.50	2.90	15.10	0.46	85.50	4.92	0.57
1.50 - 1.55	1.90	18.00	0.45	87.40	5.20	0.57
1.55 - 1.60	2.50	21.90	0.43	89.90	5.67	0.56
1.60 - 1.70	2.40	30.40	0.42	92.30	6.31	0.56
1.70 - 1.80	1.50	38.20	0.35	93.80	6.82	0.56
1.80 - 1.90	0.70	46.50	0.43	94.50	7.12	0.56
1.90 - SINK	5.50	76.20	0.60	100.00	10.92	0.56

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	40.40	1.90	0.62	40.40	1.90	0.62
1.30 - 1.35	19.30	4.80	0.58	59.70	2.84	0.61
1.35 - 1.40	10.50	7.00	0.51	70.20	3.46	0.59
1.40 - 1.45	8.80	10.00	0.47	79.00	4.19	0.58
1.45 - 1.50	3.50	14.08	0.47	82.50	4.60	0.57
1.50 - 1.55	4.40	17.40	0.45	86.90	5.25	0.57
1.55 - 1.60	2.00	21.50	0.45	88.90	5.62	0.57
1.60 - 1.70	2.60	28.80	0.44	91.50	6.25	0.56
1.70 - 1.80	1.60	36.90	0.41	93.10	6.78	0.56
1.80 - 1.90	0.70	46.50	0.47	93.80	7.08	0.56
1.90 - SINK	6.20	76.70	0.87	100.00	11.39	0.58

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKHA SEAM 6 FULL BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6727
 DATE: NOVEMBER 30, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	23.40	2.00	0.63	23.40	2.00	0.63
1.30 - 1.35	34.10	3.80	0.60	57.50	3.07	0.61
1.35 - 1.40	11.00	6.80	0.61	68.50	3.67	0.61
1.40 - 1.45	7.00	9.70	0.50	75.50	4.23	0.60
1.45 - 1.50	4.10	12.20	0.50	79.60	4.64	0.60
1.50 - 1.55	4.40	16.60	0.47	84.00	5.26	0.59
1.55 - 1.60	2.30	19.90	0.48	86.30	5.65	0.59
1.60 - 1.70	3.20	26.50	0.46	89.50	6.40	0.58
1.70 - 1.80	1.90	35.90	0.45	91.40	7.01	0.58
1.80 - 1.90	0.80	46.90	0.60	92.20	7.36	0.58
1.90 - SINK	7.80	79.20	1.26	100.00	12.96	0.63

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	46.50	22.90	0.69	46.50	22.90	0.69
STAGE 2	9.90	37.10	0.85	56.40	25.39	0.72
TAILINGS	43.60	68.08	0.95	100.00	43.97	0.82

PULP DENSITY = 10Z
 REAGENT/DOSAGE = 4:1 = D.F.:KIBC / 0.60 LBS/TONNE
 CONDITIONING = 1ST 30 SECONDS WITH D.F. &
 2ND 30 SECONDS WITH KIBC
 STAGE I = FIRST MINUTE FROTH
 STAGE II = SECOND MINUTE FROTH

CLIENT: CROMS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6L MINE COND. BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5745
 DATE: NOVEMBER 29, 1983

*Metallurgical Coal
 Test Samples*

12 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBLED FOR 85 SECONDS
 WITH 150 LITRES H2O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (S04) IN COAL AS SZ = 0.025

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE		
					WTZ	ASHZ	SZ
+ 50	29.50	2.00	5.40	0.98	29.50	5.40	0.98
50 X 25	14.80	1.90	6.00	0.93	44.30	5.60	0.96
25 X 9.5	12.10	1.90	7.70	1.23	56.40	6.05	1.02
9.5 X 2.0	15.20	1.70	7.90	0.93	71.60	6.44	1.00
2.0 X 1.0	5.80	1.60	6.20	0.94	77.40	6.43	1.00
1.0 X 0.6	8.40	1.70	7.30	0.96	85.80	6.51	0.99
0.6 X 0.3	4.00	1.50	9.50	1.09	89.80	6.64	1.00
X 0.15	2.70	1.00	11.40	1.13	92.50	6.78	1.00
0.15 X 0	7.50	1.00	43.80	1.16	100.00	9.56	1.01

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	7.60	2.00	0.76	7.60	2.00	0.76
1.30 - 1.35	77.30	4.40	0.92	84.90	4.19	0.91
1.35 - 1.40	12.30	9.30	0.74	97.20	4.83	0.88
1.40 - 1.45	0.90	14.80	1.59	98.10	4.92	0.89
1.45 - 1.50	0.80	18.40	1.07	98.90	5.03	0.89
1.50 - 1.55	0.40	20.70	0.47	99.30	5.19	0.89
1.55 - 1.60	0.02	29.00	1.56	99.32	5.10	0.89
1.60 - 1.70	0.06	37.80	0.53	99.38	5.12	0.89
1.70 - 1.80	0.01	41.30	1.65	99.39	5.12	0.89
1.80 - 1.90	0.06	44.00	0.38	99.45	5.15	0.89
1.90 - SINK	0.55	56.50	17.00	100.00	5.43	0.98

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD.

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 6L MINE COND. BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5745
 DATE: NOVEMBER 29, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	13.20	2.10	0.76	13.20	2.10	0.76
1.30 - 1.35	68.60	4.30	0.88	81.80	3.94	0.86
1.35 - 1.40	12.00	10.00	0.89	93.80	4.72	0.86
1.40 - 1.45	2.70	14.80	1.23	96.50	5.00	0.87
1.45 - 1.50	1.10	16.20	0.99	97.60	5.13	0.88
1.50 - 1.55	0.40	21.30	0.63	98.00	5.19	0.87
1.55 - 1.60	0.30	28.20	4.34	98.30	5.26	0.89
1.60 - 1.70	0.40	32.50	1.98	98.70	5.37	0.89
1.70 - 1.80	0.50	42.00	1.94	99.20	5.56	0.90
1.80 - 1.90	0.20	45.50	0.29	99.40	5.64	0.89
1.90 - SINK	0.60	73.20	6.66	100.00	6.04	0.93

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	10.40	1.90	0.80	10.40	1.90	0.80
1.30 - 1.35	65.00	3.60	0.85	75.40	3.37	0.84
1.35 - 1.40	15.70	8.60	1.03	91.10	4.27	0.88
1.40 - 1.45	2.20	15.30	1.22	93.30	4.53	0.88
1.45 - 1.50	1.50	17.40	0.93	94.80	4.73	0.88
1.50 - 1.55	0.70	20.50	1.33	95.50	4.85	0.89
1.55 - 1.60	0.60	24.30	1.71	96.10	4.97	0.89
1.60 - 1.70	0.70	33.30	1.53	96.80	5.17	0.90
1.70 - 1.80	0.70	43.60	1.65	97.50	5.45	0.90
1.80 - 1.90	0.40	49.00	1.25	97.90	5.63	0.90
1.90 - SINK	2.10	61.50	4.90	100.00	7.22	0.99

CLIENT: CROMS NEST RESOURCES LIMITED
 PROJECT: TELKHA SEAM 6L MINE COND. BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5745
 DATE: NOVEMBER 29, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	29.20	1.60	0.86	29.20	1.60	0.86
1.30 - 1.35	47.30	3.60	0.82	76.50	2.84	0.84
1.35 - 1.40	13.60	8.20	0.87	90.10	3.65	0.84
1.40 - 1.45	1.80	15.50	1.21	91.90	3.88	0.85
1.45 - 1.50	1.20	18.60	1.26	93.10	4.07	0.85
1.50 - 1.55	0.80	21.50	1.39	93.90	4.22	0.86
1.55 - 1.60	0.60	25.60	1.69	94.50	4.35	0.86
1.60 - 1.70	0.90	30.60	1.52	95.40	4.60	0.87
1.70 - 1.80	0.80	39.60	1.49	96.20	4.89	0.87
1.80 - 1.90	0.50	48.10	1.98	96.70	5.11	0.88
1.90 - SINK	3.30	78.30	2.99	100.00	7.53	0.95

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	47.60	1.60	0.95	47.60	1.60	0.95
1.30 - 1.35	35.60	3.90	0.80	83.20	2.58	0.89
1.35 - 1.40	5.20	7.70	0.87	88.40	2.89	0.88
1.40 - 1.45	4.60	10.30	0.96	93.00	3.25	0.89
1.45 - 1.50	1.10	16.20	1.36	94.10	3.40	0.89
1.50 - 1.55	0.80	19.30	1.39	94.90	3.54	0.90
1.55 - 1.60	0.40	24.20	1.66	95.30	3.62	0.90
1.60 - 1.70	0.70	29.70	1.84	96.00	3.81	0.91
1.70 - 1.80	0.50	37.40	1.96	96.50	3.99	0.91
1.80 - 1.90	0.40	43.80	2.26	96.90	4.15	0.92
1.90 - SINK	3.10	77.70	3.17	100.00	6.43	0.99

CLIENT: CROMS NEST RESOURCES LIMITED
 PROJECT: TELIKHA SEAM 6L MINE COND. BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5745
 DATE: NOVEMBER 29, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	43.40	1.30	0.95	43.40	1.30	0.95
1.30 - 1.35	25.10	3.10	0.84	68.50	1.96	0.91
1.35 - 1.40	14.70	4.90	0.77	83.20	2.48	0.89
1.40 - 1.45	4.90	7.80	0.85	88.10	2.78	0.88
1.45 - 1.50	2.50	12.60	0.77	90.60	3.05	0.88
1.50 - 1.55	1.80	18.90	1.02	92.40	3.35	0.88
1.55 - 1.60	0.90	23.70	1.27	93.30	3.55	0.89
1.60 - 1.70	1.10	29.10	1.46	94.40	3.85	0.89
1.70 - 1.80	0.90	37.00	1.75	95.30	4.16	0.90
1.80 - 1.90	0.50	45.80	1.85	95.80	4.38	0.91
1.90 - SINK	4.20	77.20	3.57	100.00	7.44	1.02

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	48.90	1.30	0.93	48.90	1.30	0.93
1.30 - 1.35	15.00	3.10	0.84	63.90	1.72	0.91
1.35 - 1.40	14.80	4.90	0.78	78.70	2.32	0.88
1.40 - 1.45	8.00	7.90	0.77	86.70	2.83	0.87
1.45 - 1.50	2.20	12.20	0.88	88.90	3.07	0.87
1.50 - 1.55	1.30	17.50	0.99	90.20	3.27	0.88
1.55 - 1.60	0.70	22.20	1.17	90.90	3.42	0.88
1.60 - 1.70	1.20	28.60	1.33	92.10	3.75	0.88
1.70 - 1.80	0.90	37.50	1.47	93.00	4.08	0.89
1.80 - 1.90	0.40	43.40	1.51	93.40	4.24	0.89
1.90 - SINK	6.60	76.60	3.52	100.00	9.02	1.07

CLIENT: CROMS NEST RESOURCES LIMITED
 PROJECT: TELUKA SEAM & MINE COND. BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 5745
 DATE: NOVEMBER 29, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	47.70	1.40	0.94	47.70	1.40	0.94
1.30 - 1.35	9.00	2.90	0.89	56.70	1.64	0.93
1.35 - 1.40	15.80	4.50	0.84	72.50	2.26	0.91
1.40 - 1.45	7.60	6.50	0.76	80.10	2.66	0.90
1.45 - 1.50	4.20	8.90	0.75	84.30	2.97	0.89
1.50 - 1.55	2.90	12.90	0.80	87.20	3.30	0.89
1.55 - 1.60	1.10	20.30	1.00	88.30	3.52	0.89
1.60 - 1.70	1.20	26.60	1.18	89.50	3.83	0.89
1.70 - 1.80	0.90	35.90	1.40	90.40	4.15	0.90
1.80 - 1.90	0.60	41.50	1.42	91.00	4.39	0.90
1.90 - SINK	9.00	77.90	3.95	100.00	11.01	1.18

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	33.70	19.90	0.96	33.70	19.90	0.96
STAGE 2	11.60	29.18	1.03	45.30	22.26	0.98
TAILINGS	54.70	60.70	1.10	100.00	43.28	1.04

PULP DENSITY = 10%
 REAGENT/DOSAGE = 4:1 = D.F.:MIBC / 0.60 LBS/TONNE
 CONDITIONING = 1ST 30 SECONDS WITH D.F. &
 2ND 30 SECONDS WITH MIBC
 STAGE I = FIRST MINUTE FROTH
 STAGE II = SECOND MINUTE FROTH

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3C BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6487
 DATE: NOVEMBER 16, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	0.30	4.80	1.21	0.30	4.80	1.21
1.30 - 1.35	31.90	7.90	1.66	32.20	7.87	1.66
1.35 - 1.40	28.00	12.50	2.18	60.20	10.02	1.90
1.40 - 1.45	9.80	17.40	2.31	70.00	11.06	1.96
1.45 - 1.50	10.40	20.50	2.77	80.40	12.28	2.06
1.50 - 1.55	4.50	24.10	3.68	84.90	12.90	2.15
1.55 - 1.60	3.80	28.00	4.27	88.70	13.55	2.24
1.60 - 1.70	3.80	31.80	6.39	92.50	14.30	2.41
1.70 - 1.80	2.00	40.70	6.01	94.50	14.86	2.49
1.80 - 1.90	0.90	46.00	7.09	95.40	15.15	2.53
1.90 - SINK	4.60	72.20	11.15	100.00	17.78	2.93

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	1.30	2.90	1.43	1.30	2.90	1.43
1.30 - 1.35	20.50	7.30	1.48	21.80	7.04	1.48
1.35 - 1.40	34.90	12.30	1.84	56.70	10.28	1.70
1.40 - 1.45	8.80	16.40	2.06	65.50	11.10	1.75
1.45 - 1.50	8.80	20.60	2.50	74.30	12.22	1.84
1.50 - 1.55	4.60	24.40	3.13	78.90	12.93	1.91
1.55 - 1.60	3.20	27.70	3.98	82.10	13.51	1.99
1.60 - 1.70	4.50	32.60	5.23	86.60	14.50	2.16
1.70 - 1.80	2.40	39.70	6.72	89.00	15.18	2.28
1.80 - 1.90	1.90	43.70	7.89	90.90	15.78	2.40
1.90 - SINK	9.10	74.50	8.46	100.00	21.12	2.95

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3C BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6487
 DATE: NOVEMBER 16, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	3.60	2.40	1.38	3.60	2.40	1.38
1.30 - 1.35	21.20	6.80	1.52	24.80	6.16	1.50
1.35 - 1.40	24.40	11.00	1.66	49.20	8.56	1.58
1.40 - 1.45	12.20	15.10	1.89	61.40	9.86	1.64
1.45 - 1.50	8.70	19.00	2.22	70.10	10.99	1.71
1.50 - 1.55	5.60	23.40	2.54	75.70	11.91	1.77
1.55 - 1.60	2.80	28.10	3.36	78.50	12.49	1.83
1.60 - 1.70	3.60	32.60	4.46	82.10	13.37	1.95
1.70 - 1.80	2.50	39.10	5.38	84.60	14.13	2.05
1.80 - 1.90	1.70	44.90	6.53	86.30	14.74	2.14
1.90 - SINK	13.70	77.60	6.44	100.00	23.35	2.73

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	11.80	2.00	1.30	11.80	2.00	1.30
1.30 - 1.35	18.10	6.50	1.52	29.90	4.72	1.43
1.35 - 1.40	19.60	9.70	1.63	49.50	6.69	1.51
1.40 - 1.45	16.00	14.30	1.73	65.50	8.55	1.56
1.45 - 1.50	4.60	18.10	2.22	70.10	9.18	1.61
1.50 - 1.55	5.00	21.10	2.04	75.10	9.97	1.64
1.55 - 1.60	3.30	25.20	2.48	78.40	10.61	1.67
1.60 - 1.70	4.10	32.20	3.45	82.50	11.69	1.76
1.70 - 1.80	2.50	39.70	4.48	85.00	12.51	1.84
1.80 - 1.90	2.20	50.00	5.32	87.20	13.46	1.93
1.90 - SINK	12.80	76.00	6.44	100.00	21.46	2.51

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3C BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6487
 DATE: NOVEMBER 16, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	21.80	2.40	1.31	21.80	2.40	1.31
1.30 - 1.35	19.80	6.70	1.57	41.60	4.45	1.43
1.35 - 1.40	16.30	10.40	1.60	57.90	6.12	1.48
1.40 - 1.45	8.80	14.00	1.80	66.70	7.16	1.52
1.45 - 1.50	5.80	17.20	1.99	72.50	7.96	1.56
1.50 - 1.55	3.80	20.90	2.19	76.30	8.61	1.59
1.55 - 1.60	3.90	23.70	2.89	80.20	9.34	1.65
1.60 - 1.70	4.20	30.10	4.05	84.40	10.38	1.77
1.70 - 1.80	2.30	38.40	4.69	86.70	11.12	1.85
1.80 - 1.90	2.10	48.20	4.69	88.80	12.00	1.92
1.90 - SINK	11.20	68.70	7.03	100.00	18.35	2.49

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	24.10	2.30	1.30	24.10	2.30	1.30
1.30 - 1.35	17.90	6.50	1.47	42.00	4.09	1.37
1.35 - 1.40	4.50	8.80	1.60	46.50	4.55	1.39
1.40 - 1.45	12.50	11.80	1.60	59.00	6.08	1.44
1.45 - 1.50	6.40	14.20	1.58	65.40	6.88	1.45
1.50 - 1.55	4.30	17.40	1.64	69.70	7.53	1.46
1.55 - 1.60	5.10	21.80	1.81	74.80	8.50	1.49
1.60 - 1.70	4.10	28.60	2.41	78.90	9.54	1.54
1.70 - 1.80	2.90	36.50	3.00	81.80	10.50	1.59
1.80 - 1.90	2.00	43.90	3.71	83.80	11.30	1.64
1.90 - SINK	16.20	72.10	6.60	100.00	21.15	2.44

Birtley Coal
& Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELUKA SEAM 3C BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6487
 DATE: NOVEMBER 16, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	20.80	2.40	1.28	20.80	2.40	1.28
1.30 - 1.35	17.70	5.70	1.42	38.50	3.92	1.34
1.35 - 1.40	8.60	9.70	1.50	47.10	4.97	1.37
1.40 - 1.45	9.30	12.20	1.52	56.40	6.16	1.40
1.45 - 1.50	4.90	15.70	1.62	61.30	6.93	1.41
1.50 - 1.55	2.70	19.90	1.86	64.00	7.47	1.43
1.55 - 1.60	3.70	22.80	1.95	67.70	8.31	1.46
1.60 - 1.70	4.10	28.00	2.34	71.80	9.44	1.51
1.70 - 1.80	3.40	36.00	2.59	75.20	10.64	1.56
1.80 - 1.90	2.20	44.80	3.14	77.40	11.61	1.61
1.90 - SINK	22.60	76.40	7.09	100.00	26.25	2.85

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	24.20	21.10	1.76	24.20	21.10	1.76
STAGE 2	8.50	36.50	1.96	32.70	25.10	1.81
TAILINGS	67.30	61.50	3.31	100.00	49.60	2.82

PULP DENSITY = 10Z
 REAGENT/DOSAGE = 4:1 = KEROSENE:MIBC/0.50 LBS/TONNE
 CONDITIONING = 60 SECONDS
 STAGE I = FIRST MINUTE FROTH
 STAGE II = SECOND MINUTE FROTH

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3B BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN) METHOD) & WASHABILITY
 LAB NO: 6856
 DATE: OCTOBER 31, 1983

12 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBLED FOR 70 SECONDS
 WITH 150 LITRES H2O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (SD4) IN COAL AS ZS = 0.041

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE		
					WTZ	ASHZ	SZ
+ 50	10.10	1.30	20.80	1.58	10.10	20.80	1.58
50 X 25	13.90	1.30	26.60	2.64	24.00	24.16	2.19
25 X 9.5	15.10	1.30	31.20	2.36	39.10	26.88	2.26
9.5 X 2.0	28.00	1.40	43.10	2.04	67.10	33.65	2.17
2.0 X 1.0	7.80	1.50	41.80	1.81	74.90	34.50	2.13
1.0 X 0.6	8.00	0.70	34.80	2.27	82.90	34.53	2.14
0.6 X 0.3	4.70	0.90	41.20	2.02	87.60	34.88	2.14
0.3 X 0.15	3.00	1.00	40.70	2.19	90.60	35.08	2.14
0.15 X 0	9.40	1.50	63.30	2.04	100.00	37.73	2.13

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	—	—	—	—	—	—
1.30 - 1.35	0.10	5.70	1.32	0.10	5.70	1.32
1.35 - 1.40	27.50	9.40	1.10	27.60	9.39	1.10
1.40 - 1.45	15.70	14.40	1.81	43.30	11.20	1.36
1.45 - 1.50	24.90	19.80	1.58	68.20	14.34	1.44
1.50 - 1.55	12.50	25.90	1.74	80.70	16.13	1.49
1.55 - 1.60	5.50	27.90	2.79	86.20	16.88	1.57
1.60 - 1.70	6.30	33.80	2.70	92.50	18.04	1.65
1.70 - 1.80	4.00	48.60	1.02	96.50	19.30	1.62
1.80 - 1.90	3.10	58.60	0.45	99.60	20.53	1.58
1.90 - SINK	0.40	80.60	0.32	100.00	20.77	1.58

OK Nov. 17.

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WESTERN INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3B BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN) METHOD) & WASHABILITY
 LAB NO: 6856
 DATE: OCTOBER 31, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	—	—	—	—	—	—
1.30 - 1.35	6.10	6.10	1.26	6.10	6.10	1.26
1.35 - 1.40	4.80	10.20	1.66	10.90	7.91	1.44
1.40 - 1.45	28.60	16.10	2.34	39.50	13.84	2.09
1.45 - 1.50	19.00	21.00	2.82	58.50	16.16	2.33
1.50 - 1.55	9.40	26.10	2.45	67.90	17.54	2.34
1.55 - 1.60	8.80	28.70	3.10	76.70	18.82	2.43
1.60 - 1.70	8.20	34.30	3.28	84.90	20.32	2.51
1.70 - 1.80	3.70	46.40	2.68	88.60	21.40	2.52
1.80 - 1.90	2.50	51.80	2.98	91.10	22.24	2.53
1.90 - SINK	8.90	71.60	3.74	100.00	26.63	2.64

OK NOV. 17

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	0.60	4.90	1.14	0.60	4.90	1.14
1.30 - 1.35	4.00	6.00	1.11	4.60	5.86	1.11
1.35 - 1.40	25.70	9.30	1.08	30.30	8.78	1.09
1.40 - 1.45	17.20	14.10	1.97	47.50	10.70	1.41
1.45 - 1.50	8.80	19.70	2.50	56.30	12.11	1.58
1.50 - 1.55	6.40	23.90	2.95	62.70	13.31	1.72
1.55 - 1.60	4.60	27.80	3.04	67.30	14.30	1.81
1.60 - 1.70	4.60	34.10	3.07	71.90	15.57	1.89
1.70 - 1.80	3.00	42.90	3.59	74.90	16.67	1.96
1.80 - 1.90	2.10	51.10	3.14	77.00	17.60	1.99
1.90 - SINK	23.00	79.20	5.06	100.00	31.77	2.69

OK NOV. 17

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3B BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN) METHOD) & WASHABILITY
 LAB NO: 6856
 DATE: OCTOBER 31, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	3.80	2.40	1.11	3.80	2.40	1.11
1.30 - 1.35	7.40	6.70	0.85	11.20	5.24	0.94
1.35 - 1.40	17.50	9.60	1.06	28.70	7.90	1.01
1.40 - 1.45	12.40	14.70	1.97	41.10	9.95	1.30
1.45 - 1.50	4.30	20.40	2.49	45.40	10.94	1.41
1.50 - 1.55	2.30	23.60	2.51	47.70	11.55	1.47
1.55 - 1.60	3.00	27.70	2.94	50.70	12.51	1.55
1.60 - 1.70	3.10	33.30	3.19	53.80	13.70	1.65
1.70 - 1.80	2.40	41.90	2.98	56.20	14.91	1.71
1.80 - 1.90	1.70	50.10	2.48	57.90	15.94	1.73
1.90 - SINK	42.10	81.90	2.76	100.00	43.71	2.16

OK NOV 17

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	8.80	1.20	1.16	8.80	1.20	1.16
1.30 - 1.35	3.20	5.50	1.03	12.00	2.35	1.13
1.35 - 1.40	8.90	7.20	0.92	20.90	4.41	1.04
1.40 - 1.45	18.00	10.80	1.03	38.90	7.37	1.03
1.45 - 1.50	5.30	16.30	2.04	44.20	8.44	1.15
1.50 - 1.55	3.40	21.70	2.53	47.60	9.39	1.25
1.55 - 1.60	2.60	24.30	2.64	50.20	10.16	1.32
1.60 - 1.70	3.70	32.80	3.07	53.90	11.71	1.44
1.70 - 1.80	1.80	39.70	3.45	55.70	12.62	1.51
1.80 - 1.90	2.00	50.10	3.05	57.70	13.92	1.56
1.90 - SINK	42.30	82.20	2.43	100.00	42.80	1.93

OK NOV 17

Birtley Coal
& Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 38 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN) METHOD) & WASHABILITY
 LAB NO: 6856
 DATE: OCTOBER 31, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	12.30	1.50	1.13	12.30	1.50	1.13
1.30 - 1.35	12.00	5.00	1.15	24.30	3.23	1.14
1.35 - 1.40	4.40	7.40	1.27	28.70	3.87	1.16
1.40 - 1.45	5.90	8.90	1.10	34.60	4.73	1.15
1.45 - 1.50	12.50	10.80	1.07	47.10	6.34	1.13
1.50 - 1.55	8.50	15.50	1.65	55.60	7.74	1.21
1.55 - 1.60	4.00	19.90	2.12	59.60	8.55	1.27
1.60 - 1.70	4.10	27.40	2.69	63.70	9.77	1.36
1.70 - 1.80	2.50	37.40	3.37	66.20	10.81	1.44
1.80 - 1.90	3.20	49.70	3.34	69.40	12.60	1.52
1.90 - SINK	30.60	79.10	3.05	100.00	32.95	1.99

OK NOV 17

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	13.30	1.50	1.15	13.30	1.50	1.15
1.30 - 1.35	4.10	4.50	1.31	17.40	2.21	1.19
1.35 - 1.40	6.00	7.10	1.21	23.40	3.46	1.19
1.40 - 1.45	7.40	8.20	1.09	30.80	4.60	1.17
1.45 - 1.50	8.50	10.50	1.08	39.30	5.88	1.15
1.50 - 1.55	5.30	15.00	1.46	44.60	6.96	1.19
1.55 - 1.60	3.70	18.90	1.68	48.30	7.87	1.22
1.60 - 1.70	3.80	27.40	2.20	52.10	9.30	1.30
1.70 - 1.80	2.00	36.80	2.80	54.10	10.32	1.35
1.80 - 1.90	3.10	60.50	2.47	57.20	13.04	1.41
1.90 - SINK	42.80	80.50	2.58	100.00	41.91	1.91

OK NOV. 18

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3B BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN) METHOD) & WASHABILITY
 LAB NO: 6856
 DATE: OCTOBER 31, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	5.50	2.30	0.98	5.50	2.30	0.98
1.30 - 1.35	9.00	3.10	0.96	14.50	2.80	0.97
1.35 - 1.40	8.90	4.50	1.02	23.40	3.44	0.99
1.40 - 1.45	5.50	7.30	1.07	28.90	4.18	1.00
1.45 - 1.50	9.60	9.50	1.07	38.50	5.51	1.02
1.50 - 1.55	6.90	13.10	1.25	45.40	6.66	1.05
1.55 - 1.60	3.70	18.80	1.73	49.10	7.57	1.11
1.60 - 1.70	3.60	26.00	2.27	52.70	8.83	1.19
1.70 - 1.80	2.20	36.40	2.90	54.90	9.94	1.25
1.80 - 1.90	1.50	48.90	3.22	56.40	10.97	1.31
1.90 - SINK	43.60	78.30	3.40	100.00	40.33	2.22

OK NOV. 1983

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	24.10	30.40	1.68	24.10	30.40	1.68
STAGE 2	6.20	49.50	1.55	30.30	34.31	1.65
TAILINGS	69.70	76.00	2.29	100.00	63.37	2.10

PULP DENSITY = 10Z
 REAGENT/DOSAGE = 4:1 = KEROSENE:MIBC/0.50 LB/TONNE
 CONDITIONING = 60 SECONDS
 STAGE I = FIRST MINUTE FROTH
 STAGE II = SECOND MINUTE FROTH

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WESTERN STEEL INDUSTRIES LTD

NOTES

1. DILUTION, EXCLUDED
2. WT% OF PLANT FEED = 10.1 %
3. NO CLEAN COAL PRODUCT
AT 1.3 DENSITY
0.1% YIELD @ 1.35
4. NEXT TO NO SINK 1.9 MATERIAL
5. HIGH INHERENT ASH AT LOW DENSITIES
IE. 14% ASH @ 1.4 FLOAT.
6. HIGH SULPHUR - DISTRIBUTION
SKewed TO LIGHT GRAINERS
SUGGESTS ORGANIC DOMINANCE
7. VERY UNUSUAL WASHABILITY SET
ASH APPEARS TO BE UNIFORM
DISTRIBUTED OVER ALL
PARTICLES

PERFORM SULPHUR BALANCE

WASHABILITY FOR THIS MATERIAL

- A LOT OF SULPHUR THIS UP
IN THE 1.5 - 1.7 RANGE

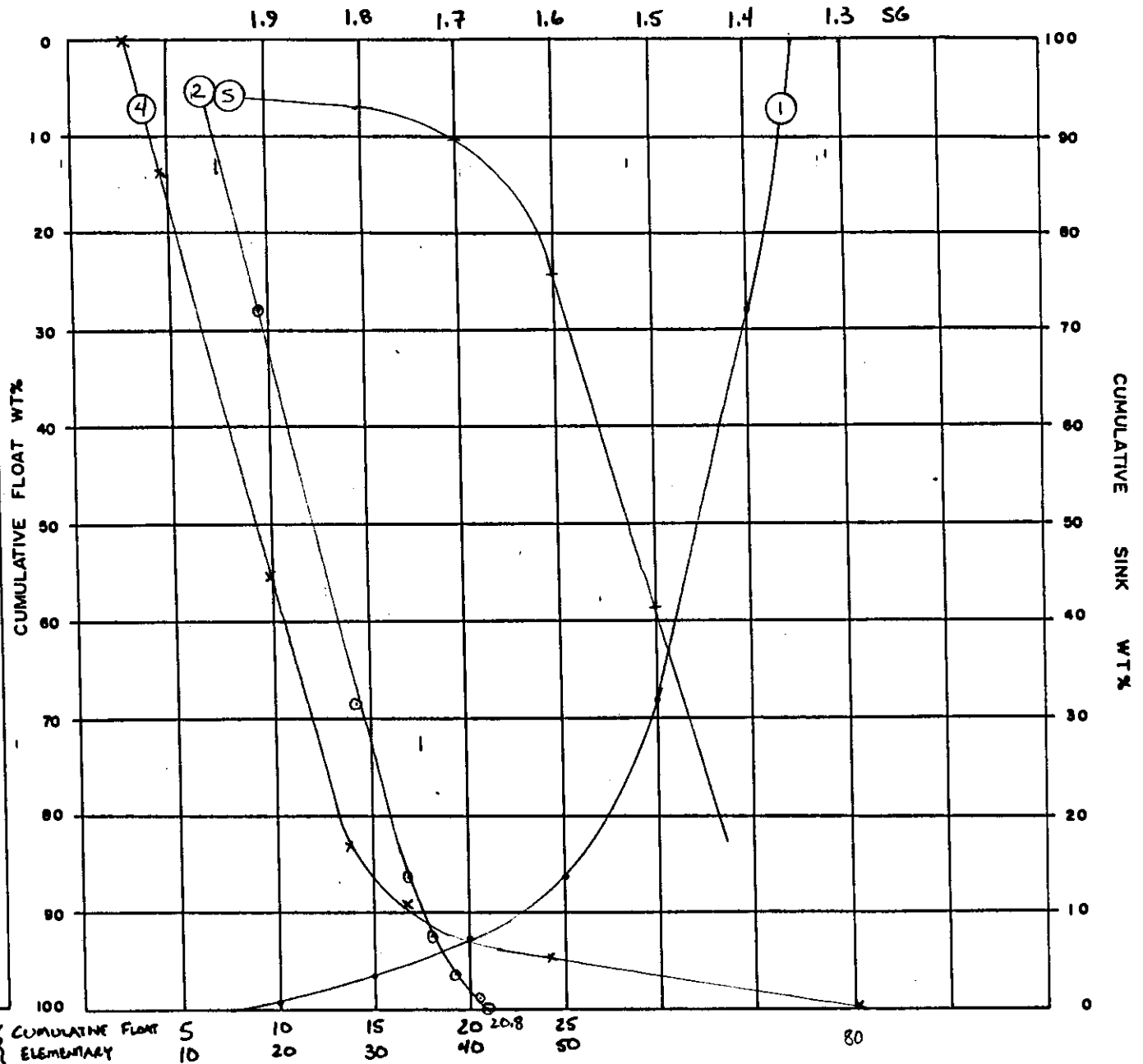
IS THIS COAL WORTH WASHING?

TO REMOVE THE SULPHUR

AND AVOID HASSLE OF

MISPLACED EFFORTS & QUALITY CONTROL

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEM 36 100+50mm ATTATED DATE: OCT/83
 CURVE 1 - YIELD/SG *
 CURVE 2 CUM. FLOAT / ASH @
 CURVE 3 CUM. SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG +



Ash %

CUMULATIVE FLOAT
ELEMENTARY

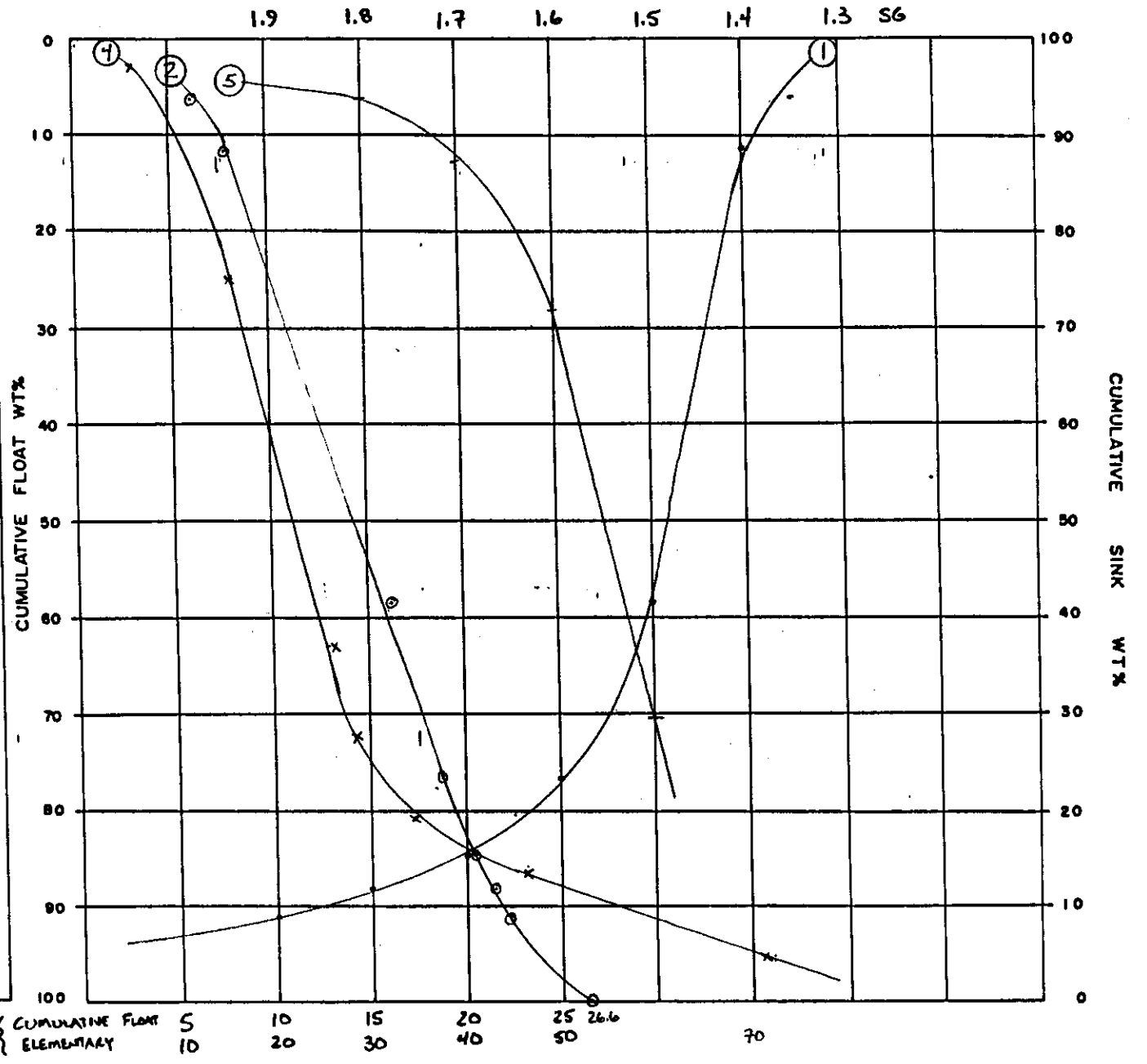
5 10 20 30 40 50

80

NOTES

1. DILUTION, EXCLUDED
2. WT% OF PLANT FEED = 13.9%

GROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEM 38 S&S 25 mm ATTENDED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM. FLOAT / ASH ○
 CURVE 3 CUM. SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG +

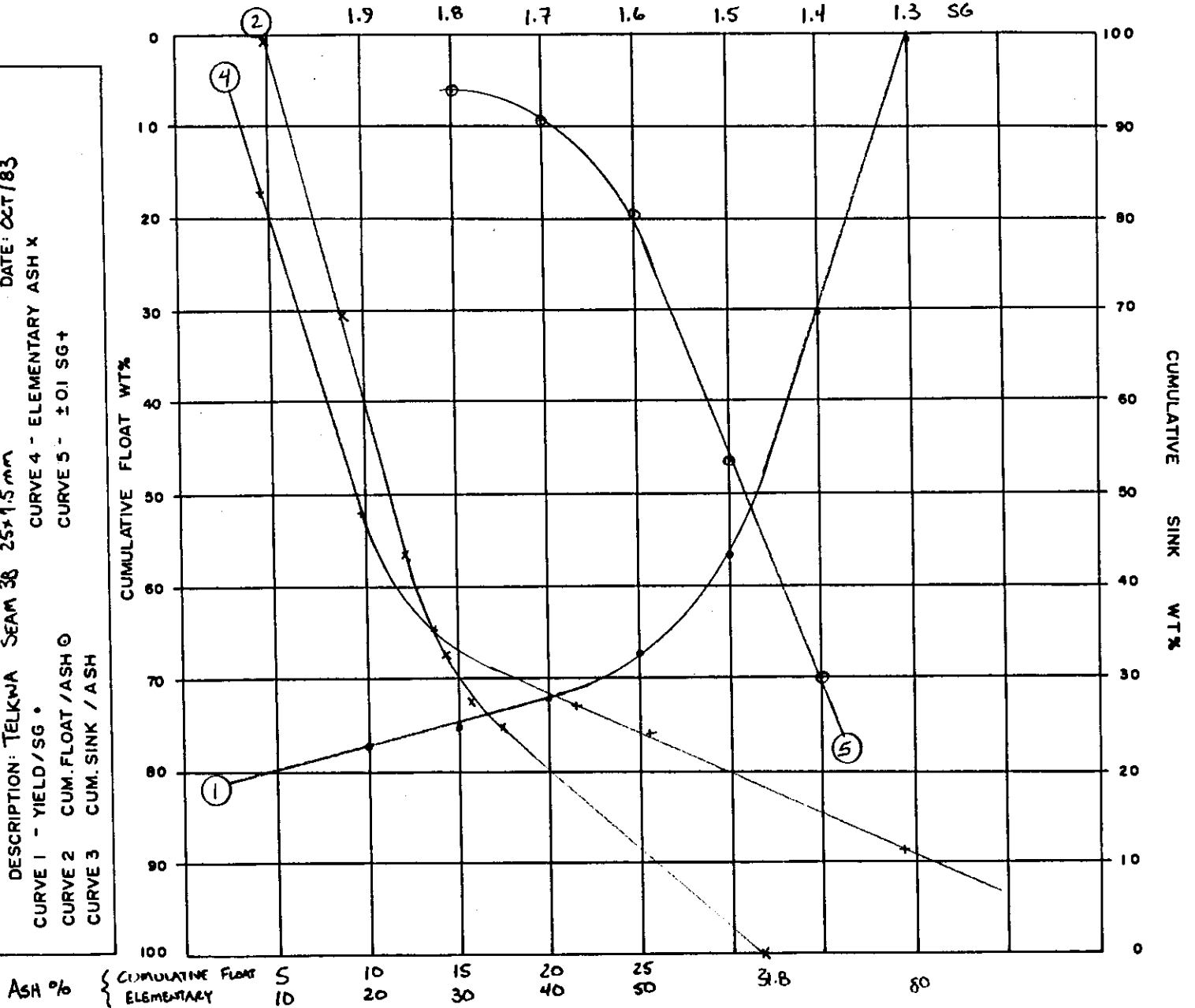


ASH % { CUMULATIVE FLOAT ELEMENTARY

NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 15.1

GROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 38 25x1.5 mm DATE: OCT/83
 CURVE 1 - YIELD/SG • CURVE 4 - ELEMENTARY ASH X
 CURVE 2 CUM. FLOAT / ASH ○ CURVE 5 - ±0.1 SG +
 CURVE 3 CUM. SINK / ASH

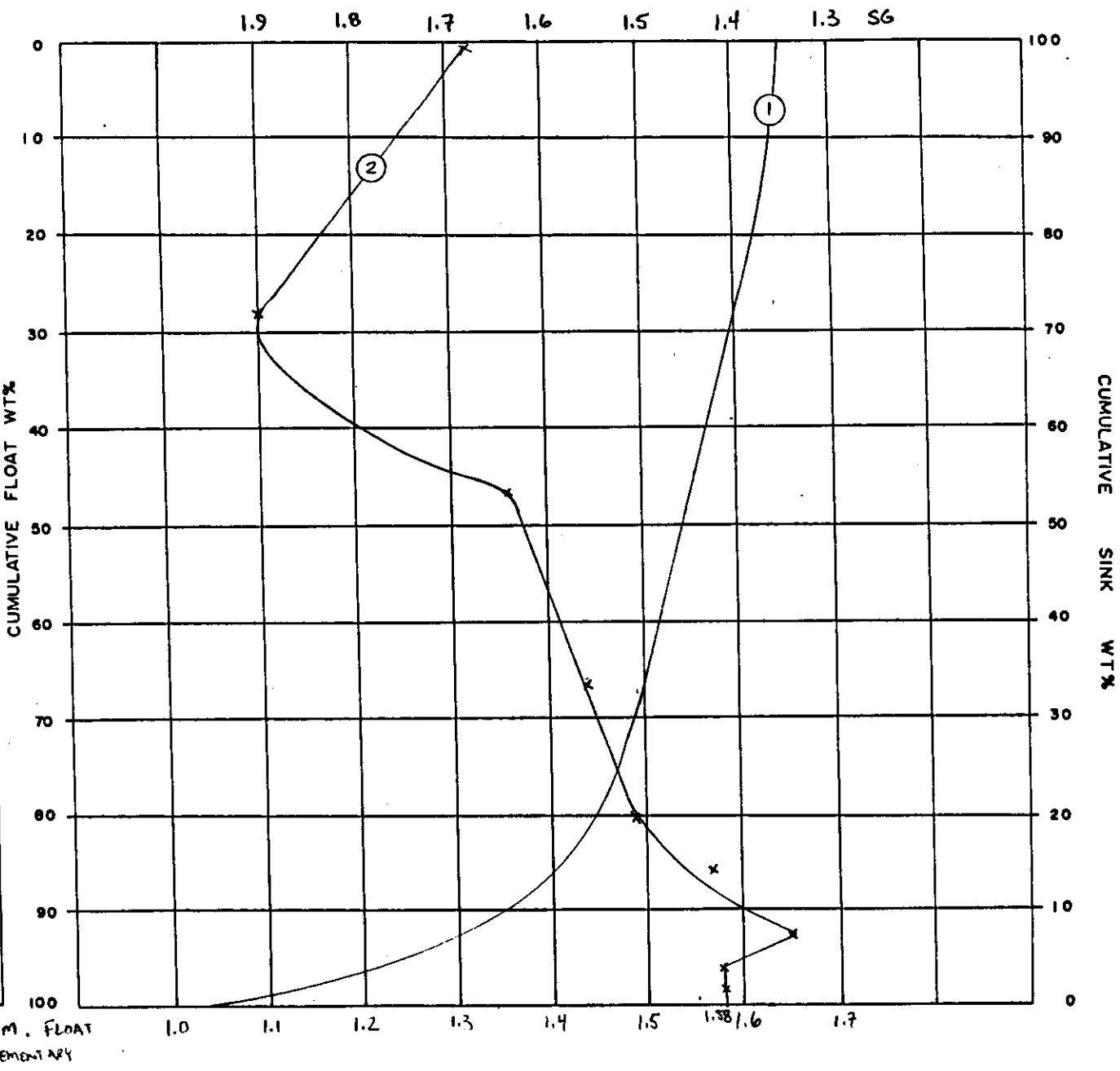


SULPHUR

NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 10.12
3. DOMINANCE OF ORGANIC SULPHUR IS REFLECTED - OBSERVE THE DIP TOWARDS LOWER S AT 1.4 SG. THEN PYRITIC COMPONENT STARTS DOMINATING TO THE HIGHER GRAVITIES.
4. IF A SULPHUR DETERMINED PRODUCT IS REQUIRED - 16 1.37%
TAKEN BE PREPARED TO ACCEPT LOW YIELDS - 45%

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 3B 100x50 ATTRITED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM. FLOAT / ASH ◊
 CURVE 3 CUM. SINK / ASH ◊
 CURVE 4 - ELEMENTARY ASH x
 CURVE 5 - ±0.1 SG+

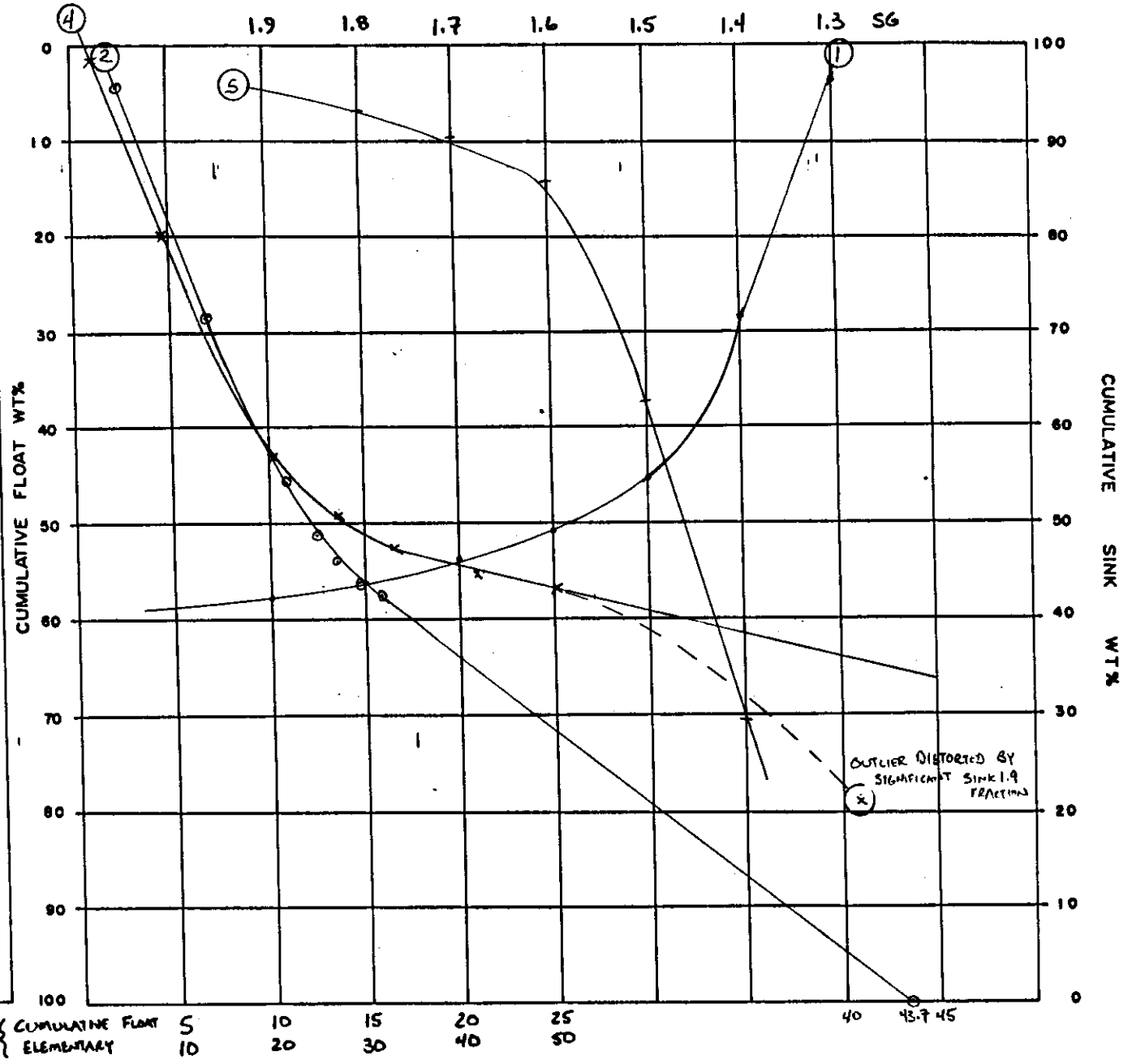


5% { Cum. Float
Elementary

NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 28%
3. SIMILAR TO SOME NLC WASHABILITIES - SIGNIFICANT AMOUNT OF TRUE REJECT MATERIAL PRESENT.
4. ELEMENTARY ASH CURVE SUGGESTS SOME MODULINGS & LOCKED PARTICLES PRESENT.

GROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 36 9.5x2mm ATTRITED DATE: OCT/83
 CURVE 1 - YIELD/SG * CURVE 4 - ELEMENTARY ASH X
 CURVE 2 CUM.FLOAT/ASH O CURVE 5 - ±0.1 SG +
 CURVE 3 CUM.SINK / ASH

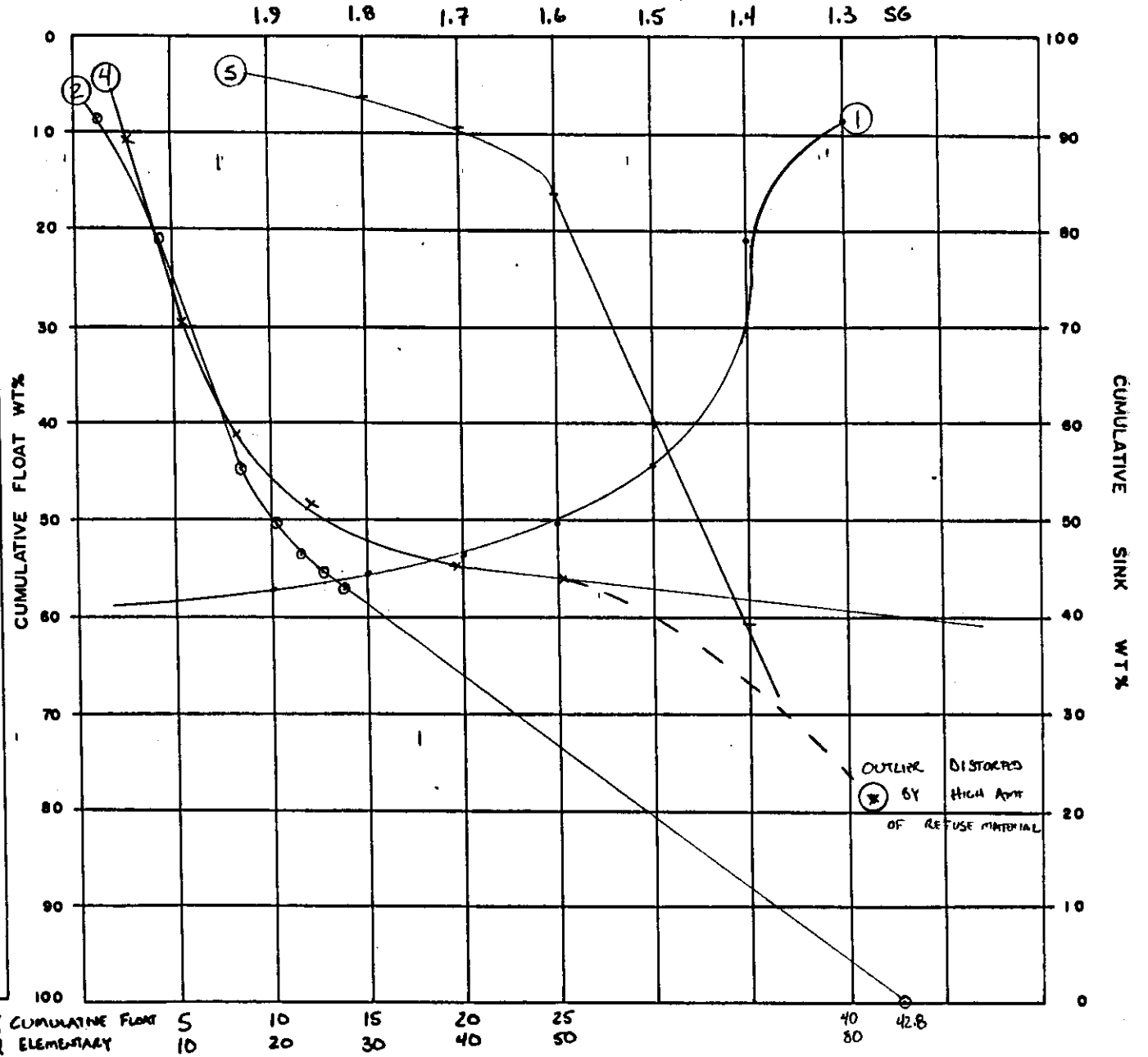


ASH % { CUMULATIVE FLOAT 5 10 15 20 25 30 40 50
 ELEMENTARY 10 20 30 40 50

NOTES

1. DILUTION, EXCLUDED
2. WT% OF PLANT FEED = 7.8%

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 3B 2x1mm ATTICED DATE: OCT/83
 CURVE 1 - YIELD/SG • CURVE 4 - ELEMENTARY ASH X
 CURVE 2 CUM.FLOAT/ASH ○ CURVE 5 - ±01 SG+
 CURVE 3 CUM.SINK / ASH



NOTES

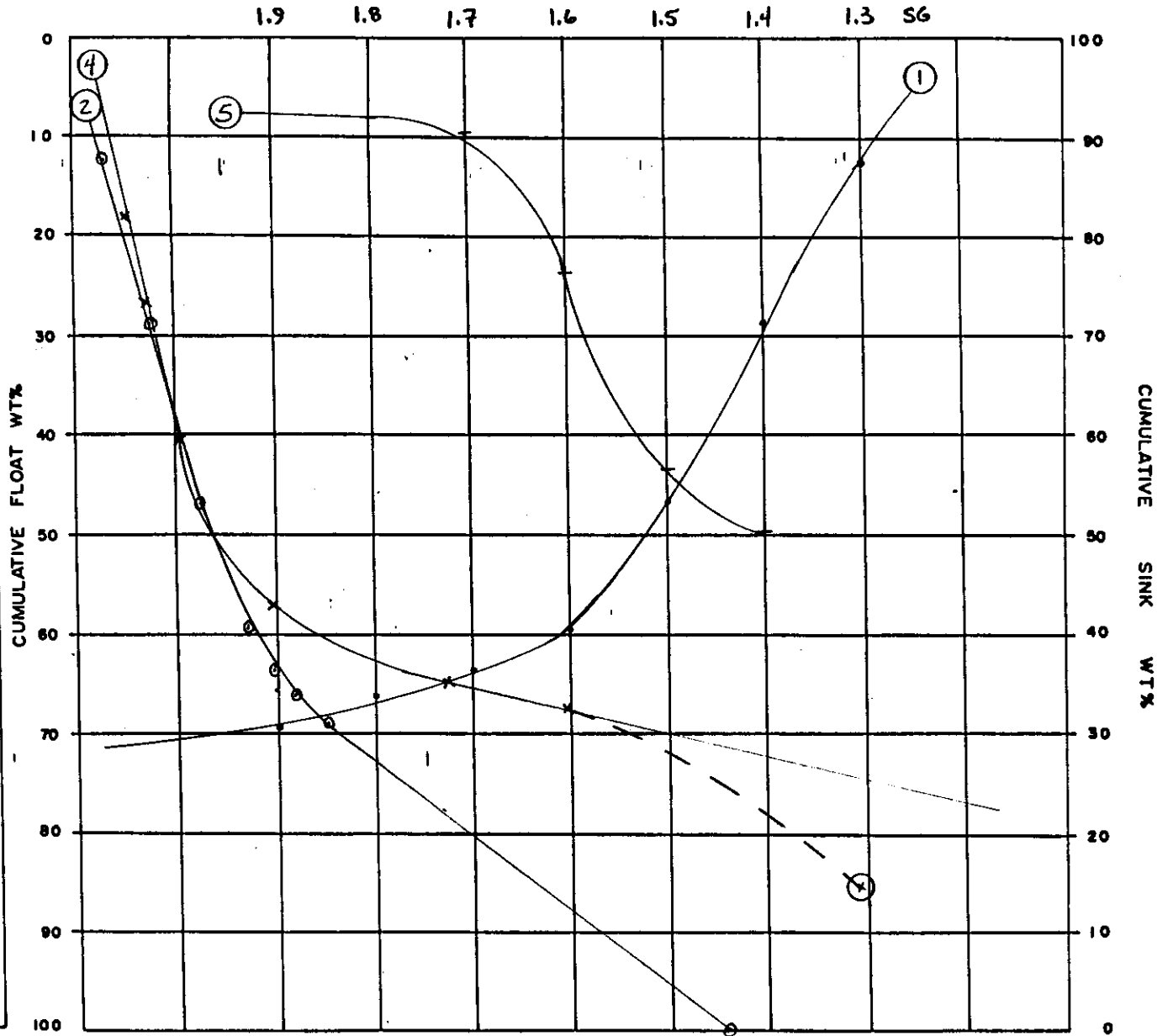
1. DILUTION, EXCLUDED
2. WT% OF PLANT FEED =

GROVS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 3B 1x.6mm AFTLTD DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ○
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±01 SG †

Ash %

{ CUMULATIVE FLOAT
ELEMENTARY

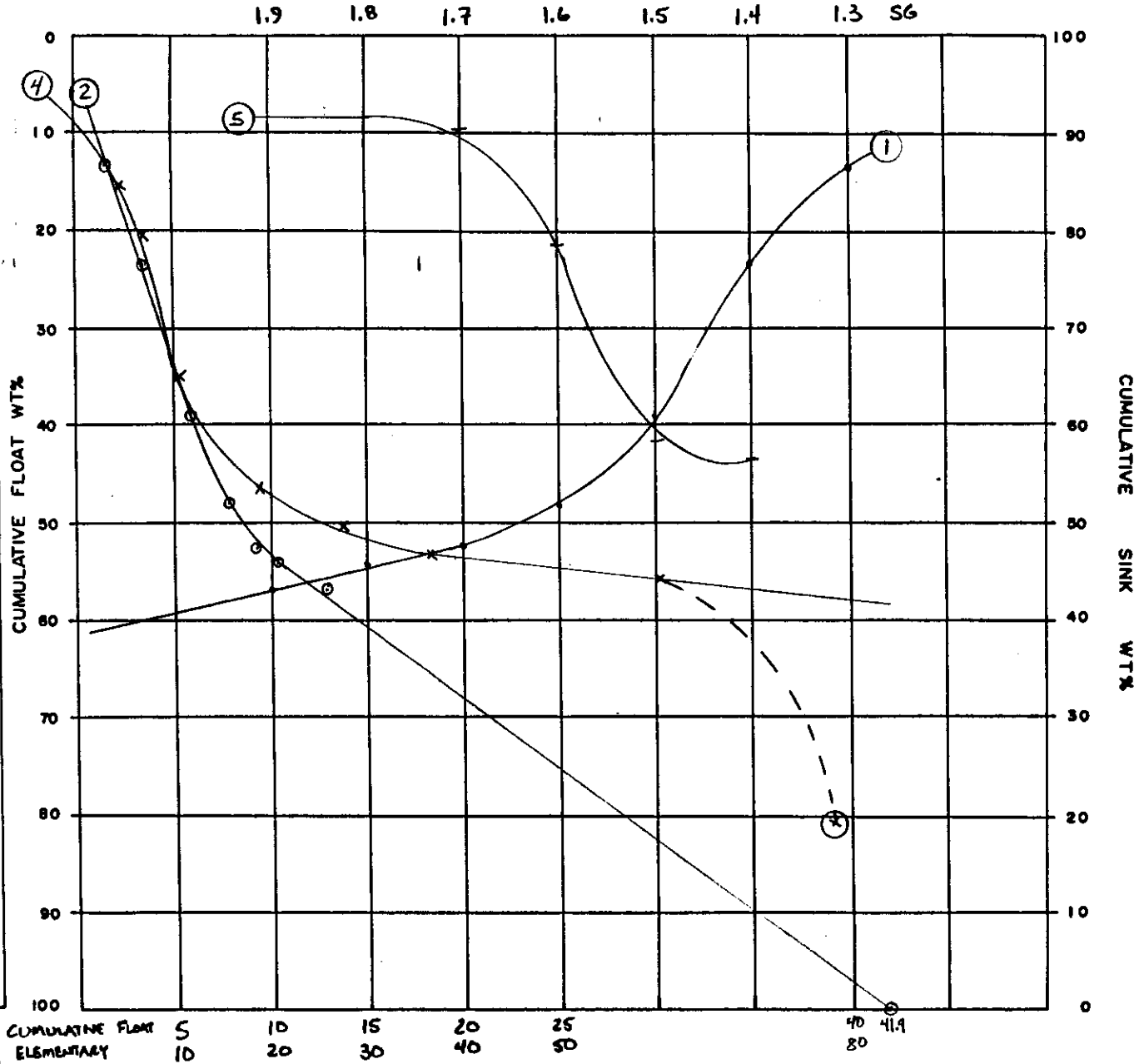
5 10 15 20 25 30 35 80



NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 4.7%

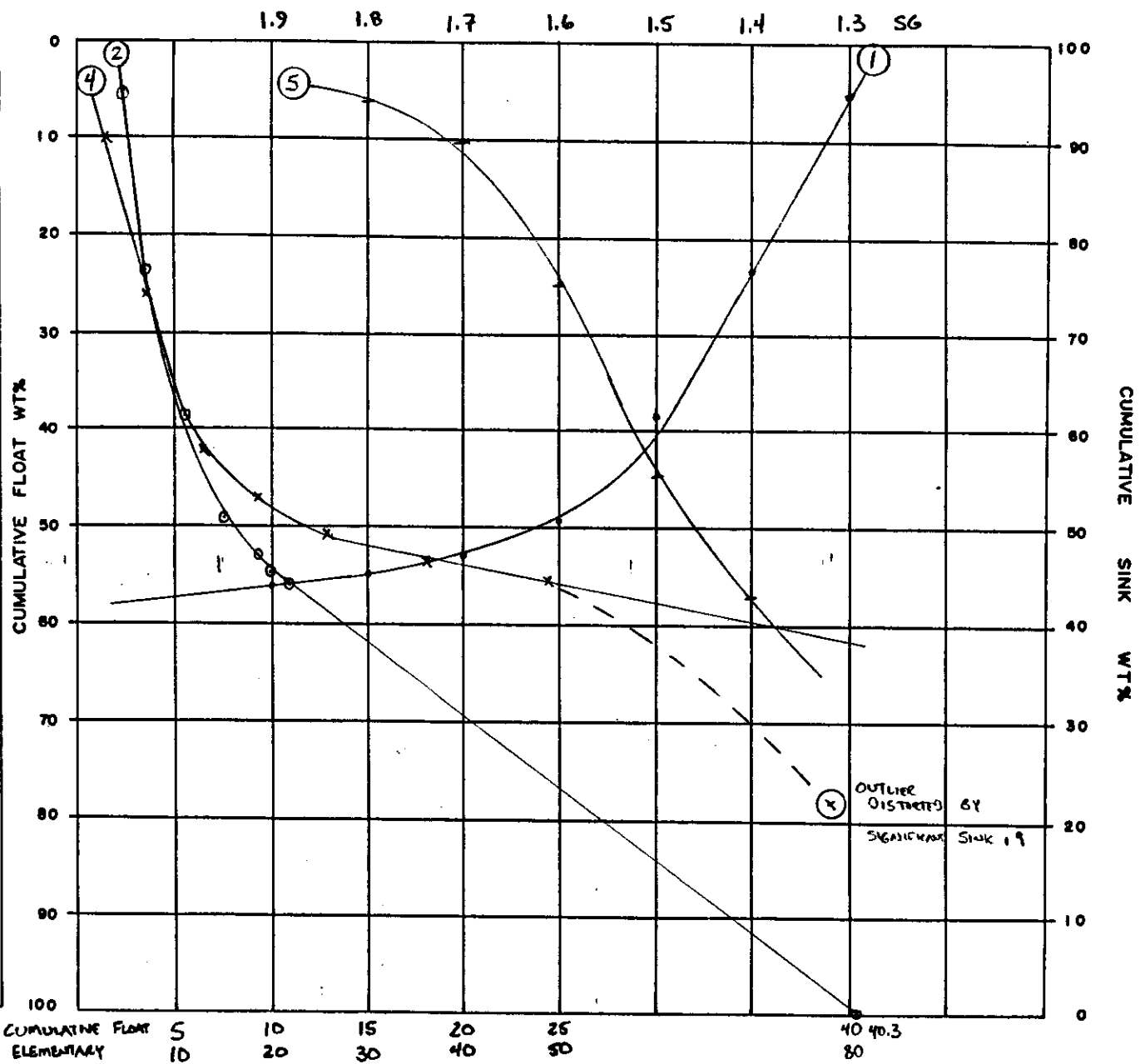
CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 3B .6x.3mm ATTENED DATE: OCT/83
 CURVE 1 - YIELD/SG ○
 CURVE 2 - CUM. FLOAT / ASH ○
 CURVE 3 - CUM. SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG +



NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED =

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 3B 0.3 x 0.15 mm ATTRITED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT / ASH ○
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH x
 CURVE 5 - ±0.1 SG †



ASH % { CUMULATIVE FLOAT 5 10 15 20 25 30 35 40 40.3 45 50 55 60 65 70 75 80
 ELEMENTARY 10 20 30 40 50 60 70 80

OUTLIER
 DISTURBED BY
 SIGNIFICANT SINK 19

DESCRPT: TELKWA SEAM 3B ATTRITED

DATE: OCT/83

SIZE RANGE: 100 x 50 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS S		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	INC. WT %	CUM. ASH %			
FLAT 1.30	0	0	0	0	0	0	0		
SINK 1.30 FLAT 1.35	0.1	5.7	0.1	5.7	1.32	1.32	0.1		
SINK 1.35 FLAT 1.40	27.5	9.4	27.6	9.4	1.10	1.10	13.9		
SINK 1.40 FLAT 1.45	15.7	14.4	43.3	11.2	1.81	1.36	35.5		
SINK 1.45 FLAT 1.50	24.9	19.8	68.2	14.3	1.58	1.44	55.8	58.6	1.5
SINK 1.50 FLAT 1.55	12.5	25.9	80.7	16.1	1.74	1.49	74.5	24.3	1.6
SINK 1.55 FLAT 1.60	5.5	27.9	86.2	16.9	2.79	1.57	83.5	10.3	1.7
SINK 1.60 FLAT 1.70	6.3	33.8	92.5	18.0	2.70	1.65	89.4	7.1	1.8
SINK 1.70 FLAT 1.80	4.0	48.6	96.5	19.3	1.02	1.62	94.5		
SINK 1.80 FLAT 1.90	3.1	58.6	99.6	20.5	0.45	1.58	98.1		
SINK 1.90	0.4	80.6	100	20.8	0.32	1.58	99.8		

COMMENTS:

DESCRIP. : TELKWA SEAM 3B ATTRITED

DATE : OCT/83

SIZE RANGE : 50x25mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS S		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	INC. WT %	CUM. ASH %			
FL0AT 1.30	0	0	0	0	0	0	0		
SINK 1.30 FLOAT 1.35	6.1	6.1	6.1	6.1	1.26	1.26	3.1		
SINK 1.35 FLOAT 1.40	4.8	10.2	10.9	7.9	1.66	1.44	8.5	62.6	1.4
SINK 1.40 FLOAT 1.45	28.6	16.1	39.5	13.8	2.34	2.09	25.2	70.4	1.5
SINK 1.45 FLOAT 1.50	19.0	21.0	58.5	16.2	2.82	2.33	49.0	28.2	1.6
SINK 1.50 FLOAT 1.55	9.4	26.1	67.9	17.5	2.45	2.34	63.2	12.7	1.7
SINK 1.55 FLOAT 1.60	8.8	28.7	76.7	18.8	3.10	2.43	72.3	6.6	1.8
SINK 1.60 FLOAT 1.70	8.2	34.3	84.9	20.3	3.28	2.51	80.8		
SINK 1.70 FLOAT 1.80	3.7	46.4	88.6	21.4	2.68	2.52	86.8		
SINK 1.80 FLOAT 1.90	2.5	51.8	91.1	22.2	2.98	2.53	89.9		
SINK 1.90	8.9	71.6	100	26.6	3.74	2.64	95.6		

COMMENTS :

DESCRIPTION: TELKWA SEAM 3B 100mm ATTRITED

DATE: OCT/83

SIZE RANGE: 25x9.5mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	WT%	ASH %			
FLOAT 1.30	.6	4.9	.6	4.9			.3		
SINK 1.30 FLOAT 1.35	4.0	6.0	4.6	5.9			2.6		
SINK 1.35 FLOAT 1.40	25.7	9.3	30.3	8.8			17.5	70	1.4
SINK 1.40 FLOAT 1.45	17.2	14.1	47.5	10.7			38.9	46.5	1.5
SINK 1.45 FLOAT 1.50	8.8	11.7	56.3	12.1			51.9	19.6	1.6
SINK 1.50 FLOAT 1.55	6.4	23.9	62.7	13.3			59.5	9.6	1.7
SINK 1.55 FLOAT 1.60	4.6	27.8	67.3	14.3			65	6.4	1.8
SINK 1.60 FLOAT 1.70	4.6	34.1	71.9	15.6			69.6		
SINK 1.70 FLOAT 1.80	3.0	42.9	74.9	16.7			73.4		
SINK 1.80 FLOAT 1.90	2.1	51.1	77	17.6			76		
SINK 1.90	23	79.2	100	31.8			88.5		

COMMENTS:

DILUTION EXCLUDED

DESCRIPTION: TELKWA SEAM 3B ATTRITED

DATE: OCT/83

SIZE RANGE: 9.5 x 2mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC. WT%	CUM. ASH%			
Float 1.30	3.8	2.4	3.8	2.4	1.11	1.11	1.9		
SINK 1.30 Float 1.35	7.4	6.7	11.2	5.2	0.85	0.94	7.5		
SINK 1.35 Float 1.40	17.5	9.6	28.7	7.9	1.06	1.01	20.0	70.5	1.4
SINK 1.40 Float 1.45	12.4	14.7	41.1	10.0	1.97	1.30	34.9	37.3	1.5
SINK 1.45 Float 1.50	4.3	20.4	45.4	10.9	2.49	1.41	43.3	14.2	1.6
SINK 1.50 Float 1.55	2.3	23.6	47.7	11.6	2.51	1.47	46.6	9.3	1.7
SINK 1.55 Float 1.60	3.0	27.7	50.7	12.5	2.94	1.55	49.2	7.0	1.8
SINK 1.60 Float 1.70	3.1	33.3	53.8	13.7	3.19	1.65	52.3		
SINK 1.70 Float 1.80	2.4	41.9	56.2	14.9	2.98	1.71	55.0		
SINK 1.80 Float 1.90	1.7	50.1	57.9	15.9	2.48	1.73	57.1		
SINK 1.90	42.1	81.9	100.0	43.7	2.76	2.16	79.0		

COMMENTS:

DESCRIPTION : TELKWA SEAM 3B ATTRITED

DATE : OCT/83

SIZE RANGE : 2 x 1 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS S		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	INC. WT %	CUM. ASH %			
Float 1.30	8.8	1.20	8.8	1.2	1.16	1.16	4.4		
SINK 1.30 Float 1.35	3.2	5.5	12.0	2.4	1.03	1.13	10.4		
SINK 1.35 Float 1.40	8.9	7.2	20.9	4.4	0.92	1.04	16.5	60.4	1.4
SINK 1.40 Float 1.45	18.0	10.8	38.9	7.4	1.03	1.03	29.9	50.0	1.5
SINK 1.45 Float 1.50	5.3	16.3	44.2	8.4	2.04	1.15	41.6	16.6	1.6
SINK 1.50 Float 1.55	3.4	21.7	47.6	9.4	2.53	1.25	45.9	9.4	1.7
SINK 1.55 Float 1.60	2.6	24.3	50.2	10.2	2.64	1.32	48.9	6.5	1.8
SINK 1.60 Float 1.70	3.7	32.8	53.9	11.7	3.07	1.44	52.1		
SINK 1.70 Float 1.80	1.8	39.7	55.7	12.6	3.45	1.51	54.8		
SINK 1.80 Float 1.90	2.0	50.1	57.7	13.9	3.05	1.56	56.7		
SINK 1.90	42.3	82.2	100	42.8	2.43	1.93	78.9		

COMMENTS :

DESCRIPTION: TELKWA SEAM 3B ATTRITED

DATE: OCT/83

SIZE RANGE: 1x0.6mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	INC. WT %	CUM. ASH %			
Float 1.30	12.3	1.50	12.3	1.5	1.13	1.13	6.15		
SINK 1.30 Float 1.35	12.0	5.0	24.3	3.2	1.15	1.14	18.3		
SINK 1.35 Float 1.40	4.4	7.4	28.7	3.9	1.27	1.16	26.5	49.3	1.4
SINK 1.40 Float 1.45	5.9	8.9	34.6	4.7	1.10	1.15	31.7	43.8	1.5
SINK 1.45 Float 1.50	12.5	10.8	47.1	6.3	1.07	1.13	40.9	23.5	1.6
SINK 1.50 Float 1.55	8.5	15.5	55.6	7.7	1.65	1.21	51.4	9.2	1.7
SINK 1.55 Float 1.60	4.0	19.9	59.6	8.6	2.12	1.27	57.6	8.1	1.8
SINK 1.60 Float 1.70	4.1	27.4	63.7	9.8	2.69	1.36	61.7		
SINK 1.70 Float 1.80	2.5	37.4	66.2	10.8	3.37	1.44	65.0		
SINK 1.80 Float 1.90	3.2	49.7	69.4	12.6	3.34	1.52	67.8		
SINK 1.90	30.6	79.1	100	33	3.05	1.99	84.7		

COMMENTS:

DESIGN ID: TELKWA SEAM 3B ATTRITED

DATE: OCT/83

SIZE RANGE: 0.6 x 0.3 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS S		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC. WT %	CUM. ASH %			
FLOAT 1.30	13.3	1.5	13.3	1.50	1.15	1.15	6.7		
SINK 1.30 FLOAT 1.35	4.1	4.5	17.4	2.2	1.31	1.19	15.4		
SINK 1.35 FLOAT 1.40	6.0	7.1	23.4	3.5	1.21	1.19	20.4	43.7	1.4
SINK 1.40 FLOAT 1.45	7.4	8.2	30.8	4.6	1.09	1.17	27.1	41.9	1.5
SINK 1.45 FLOAT 1.50	8.5	10.5	39.3	5.9	1.08	1.15	35.1	21.5	1.6
SINK 1.50 FLOAT 1.55	5.3	15.0	44.6	7.0	1.46	1.19	42.0	9.8	1.7
SINK 1.55 FLOAT 1.60	3.7	18.9	48.3	7.9	1.68	1.22	46.5	8.6	1.8
SINK 1.60 FLOAT 1.70	3.8	27.4	52.1	9.3	2.20	1.30	50.2		
SINK 1.70 FLOAT 1.80	2.0	36.8	54.1	10.3	2.80	1.35	53.1		
SINK 1.80 FLOAT 1.90	3.1	60.5	57.2	13.0	2.47	1.41	55.7		
SINK 1.90	42.8	80.5	100	41.9	2.58	1.91	78.6		

COMMENTS:

DESCR: TELKWA SEAM 3B ATTRITED

DATE: OCT/83

SIZE RANGE: 0.3 x 0.15 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS S		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC WT %	CUM. ASH %			
FLOAT 1.30	5.5	2.3	5.5	2.3	0.98	0.98	2.8		
SINK 1.30 FLOAT 1.35	9.0	3.1	14.5	2.8	0.96	0.97	10.0		
SINK 1.35 FLOAT 1.40	8.9	4.5	23.4	3.4	1.02	0.99	19.0	57.4	1.4
SINK 1.40 FLOAT 1.45	5.5	7.3	28.9	4.2	1.07	1.00	26.2	44.7	1.5
SINK 1.45 FLOAT 1.50	9.6	9.5	38.5	5.5	1.07	1.02	33.7	29.7	1.6
SINK 1.50 FLOAT 1.55	6.9	13.1	45.4	6.7	1.25	1.05	42.0	10.1	1.7
SINK 1.55 FLOAT 1.60	3.7	18.8	49.1	7.6	1.73	1.11	47.3	6.4	1.8
SINK 1.60 FLOAT 1.70	3.6	26.0	52.7	8.8	2.27	1.19	50.9		
SINK 1.70 FLOAT 1.80	2.2	36.4	54.9	9.9	2.90	1.25	53.8		
SINK 1.80 FLOAT 1.90	1.5	48.9	56.4	11.0	3.22	1.31	55.7		
SINK 1.90	43.6	78.3	100	40.3	3.40	2.22	78.2		

COMMENTS:

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3A BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6662
 DATE: JULY 10, 1984 (CORRECTION TO REPORT DATED NOV. 15/83)

12 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBLED FOR 55 SECONDS
 WITH 150 LITRES H₂O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (SOM) IN COAL AS XS = 0.026%

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	WTZ	CUMULATIVE ASHZ	SZ
+ 50	38.70	1.80	26.70	2.34	38.70	26.70	2.34
50 X 25	12.50	1.60	28.80	2.25	51.20	27.21	2.32
25 X 9.5	11.80	1.20	32.90	2.24	63.00	28.28	2.30
9.5 X 2.0	15.60	1.00	43.40	1.85	78.60	31.28	2.21
2.0 X 1.0	4.90	1.10	43.90	1.94	83.50	32.02	2.20
1.0 X 0.6	6.00	0.80	36.00	2.07	89.50	32.29	2.19
0.6 X 0.3	3.50	1.00	40.10	2.27	93.00	32.58	2.19
0.3 X 0.15	2.10	1.10	40.50	2.47	95.10	32.76	2.20
0.15 X 0	4.90	1.10	60.10	2.53	100.00	34.10	2.21

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	0.10	3.10	1.53	0.10	3.10	1.53
1.30 - 1.35	3.10	7.50	1.92	3.20	7.36	1.91
1.35 - 1.40	25.40	11.20	1.17	28.60	10.77	1.25
1.40 - 1.45	10.20	17.10	2.06	38.80	12.43	1.46
1.45 - 1.50	19.70	24.10	2.50	58.50	16.36	1.81
1.50 - 1.55	2.80	27.70	2.53	61.30	16.88	1.85
1.55 - 1.60	8.30	28.20	2.91	69.60	18.23	1.97
1.60 - 1.70	10.20	31.50	2.81	79.80	19.93	2.08
1.70 - 1.80	9.80	39.50	2.70	89.60	22.07	2.15
1.80 - 1.90	4.00	48.50	2.12	93.60	23.20	2.15
1.90 - SINK	6.40	60.20	2.61	100.00	25.57	2.18

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3A BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6662
 DATE: NOVEMBER 15, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	0.10	3.70	1.54	0.10	3.70	1.54
1.30 - 1.35	7.70	5.90	1.82	7.80	5.87	1.82
1.35 - 1.40	22.40	11.70	1.33	30.20	10.19	1.46
1.40 - 1.45	12.40	16.60	1.80	42.60	12.06	1.56
1.45 - 1.50	6.60	21.70	2.01	49.20	13.35	1.62
1.50 - 1.55	7.20	23.60	2.41	56.40	14.66	1.72
1.55 - 1.60	8.10	27.60	2.92	64.50	16.29	1.87
1.60 - 1.70	10.10	34.00	2.70	74.60	18.68	1.98
1.70 - 1.80	6.20	42.40	3.07	80.80	20.50	2.07
1.80 - 1.90	5.10	48.30	3.02	85.90	22.15	2.12
1.90 - SINK	14.10	69.50	3.05	100.00	28.83	2.25

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	1.60	3.80	1.68	1.60	3.80	1.68
1.30 - 1.35	10.00	6.90	1.68	11.60	6.47	1.68
1.35 - 1.40	17.80	12.20	1.32	29.40	9.94	1.46
1.40 - 1.45	12.10	17.00	1.65	41.50	12.08	1.52
1.45 - 1.50	5.80	21.20	2.25	47.30	13.13	1.61
1.50 - 1.55	5.10	24.60	2.53	52.40	14.24	1.70
1.55 - 1.60	4.90	28.50	2.61	57.30	15.46	1.77
1.60 - 1.70	9.00	33.60	2.61	66.30	17.92	1.89
1.70 - 1.80	5.60	42.80	2.62	71.90	19.86	1.95
1.80 - 1.90	5.50	50.80	2.48	77.40	22.06	1.98
1.90 - SINK	22.60	71.90	3.12	100.00	33.32	2.24

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3A BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6662
 DATE: NOVEMBER 15, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	3.20	2.70	1.52	3.20	2.70	1.52
1.30 - 1.35	12.50	6.80	1.60	15.70	5.96	1.58
1.35 - 1.40	11.10	12.40	1.26	26.80	8.63	1.45
1.40 - 1.45	5.90	15.70	1.58	32.70	9.91	1.47
1.45 - 1.50	7.00	19.30	2.03	39.70	11.56	1.57
1.50 - 1.55	3.20	23.20	2.49	42.90	12.43	1.64
1.55 - 1.60	3.00	26.80	2.79	45.90	13.37	1.72
1.60 - 1.70	5.50	33.10	2.76	51.40	15.48	1.83
1.70 - 1.80	3.90	41.00	2.70	55.30	17.28	1.89
1.80 - 1.90	4.20	50.30	2.54	59.50	19.61	1.93
1.90 - SINK	40.50	79.60	1.72	100.00	43.91	1.85

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	9.10	2.20	1.43	9.10	2.20	1.43
1.30 - 1.35	10.40	6.40	1.69	19.50	4.44	1.57
1.35 - 1.40	8.10	10.60	1.40	27.60	6.25	1.52
1.40 - 1.45	7.10	14.20	1.56	34.70	7.87	1.53
1.45 - 1.50	6.00	17.40	1.91	40.70	9.28	1.58
1.50 - 1.55	3.30	21.80	2.38	44.00	10.22	1.64
1.55 - 1.60	2.30	23.70	2.50	46.30	10.89	1.69
1.60 - 1.70	4.50	30.60	2.89	50.80	12.63	1.79
1.70 - 1.80	3.40	39.20	2.79	54.20	14.30	1.86
1.80 - 1.90	2.58	46.90	2.82	56.78	15.74	1.90
1.90 - SINK	43.30	78.80	1.75	100.00	43.04	1.83

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3A BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6662
 DATE: NOVEMBER 15, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	13.50	2.00	1.38	13.50	2.00	1.38
1.30 - 1.35	13.80	6.50	1.66	27.30	4.27	1.52
1.35 - 1.40	6.60	10.20	1.43	33.90	5.43	1.50
1.40 - 1.45	8.20	13.50	1.62	42.10	7.00	1.53
1.45 - 1.50	4.00	16.60	1.81	46.10	7.83	1.55
1.50 - 1.55	4.40	19.60	2.10	50.50	8.86	1.60
1.55 - 1.60	4.30	26.40	2.61	54.80	10.24	1.68
1.60 - 1.70	3.70	30.90	2.49	58.50	11.54	1.73
1.70 - 1.80	3.80	39.00	3.01	61.50	12.88	1.79
1.80 - 1.90	2.40	48.00	2.96	63.90	14.20	1.84
1.90 - SINK	36.10	73.60	2.51	100.00	35.64	2.08

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	13.40	2.00	1.33	13.40	2.00	1.33
1.30 - 1.35	12.40	5.70	1.63	25.80	3.78	1.47
1.35 - 1.40	6.40	9.30	1.63	32.20	4.88	1.51
1.40 - 1.45	5.20	12.50	1.71	37.40	5.94	1.53
1.45 - 1.50	4.20	15.10	1.79	41.60	6.86	1.56
1.50 - 1.55	5.10	18.00	1.90	46.70	8.08	1.60
1.55 - 1.60	3.30	21.60	2.19	50.00	8.97	1.64
1.60 - 1.70	3.70	28.30	2.79	53.70	10.30	1.72
1.70 - 1.80	3.50	37.70	3.07	57.20	11.98	1.80
1.80 - 1.90	3.60	48.40	3.16	60.80	14.13	1.88
1.90 - SINK	39.20	78.70	2.54	100.00	39.44	2.14

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3A BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6662
 DATE: NOVEMBER 15, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	12.80	1.90	1.30	12.80	1.90	1.30
1.30 - 1.35	12.20	5.20	1.51	25.00	3.51	1.40
1.35 - 1.40	4.70	8.10	1.83	29.70	4.24	1.47
1.40 - 1.45	6.10	11.30	1.79	35.80	5.44	1.52
1.45 - 1.50	4.20	13.50	1.79	40.00	6.29	1.55
1.50 - 1.55	3.50	17.00	1.87	43.50	7.15	1.58
1.55 - 1.60	4.10	19.60	2.07	47.60	8.22	1.62
1.60 - 1.70	4.60	26.50	2.61	52.20	9.83	1.71
1.70 - 1.80	3.10	34.60	3.15	55.30	11.22	1.79
1.80 - 1.90	3.80	44.40	3.35	59.10	13.35	1.89
1.90 - SINK	40.90	76.80	3.00	100.00	39.30	2.34

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	23.00	31.50	2.21	23.00	31.50	2.21
STAGE 2	6.20	51.20	2.15	29.20	35.68	2.20
TAILINGS	70.80	70.40	2.57	100.00	60.26	2.46

PULP DENSITY = 10%
 REAGENT/DOSAGE = 4:1 = KEROSENE:MIBC/0.50 LBS/TONNE
 CONDITIONING = 60 SECONDS
 STAGE I = FIRST MINUTE FROTH
 STAGE II = SECOND MINUTE FROTH

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN) METHOD) & WASHABILITY
 LAB NO: 6014
 DATE: OCTOBER 31, 1983

15 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBLED FOR 140 SECONDS
 WITH 150 LITRES H2O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (S04) IN COAL AS ZS = 0.014

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	WTZ	CUMULATIVE ASHZ	SZ
+ 50	3.00	—	—	—	3.00	—	—
50 X 25	4.70	1.30	58.60	3.22	7.70	58.60	3.22
25 X 9.5	10.20	1.30	48.50	1.67	17.90	52.84	2.34
9.5 X 2.0	25.30	1.30	31.50	1.13	43.20	40.34	1.63
2.0 X 1.0	11.70	1.20	22.90	0.94	54.90	36.63	1.48
1.0 X 0.6	16.40	0.80	21.80	0.91	71.30	33.22	1.35
0.6 X 0.3	10.20	0.90	20.80	0.96	81.50	31.66	1.30
0.3 X 0.15	6.90	1.00	21.40	1.05	88.40	30.86	1.28
0.15 X 0	11.60	1.20	33.90	0.90	100.00	31.21	1.24

NOTE - SIZE/ASH RELATION
 COVERAGES TO OTHER SEAMS

FLOAT-SINK ANALYSIS, air dried basis: + 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	WTZ	CUMULATIVE ASHZ	SZ
FLOAT - 1.30	0.10	3.00	0.92	0.10	3.00	0.92
1.30 - 1.35	1.10	4.50	0.99	1.20	4.38	0.98
1.35 - 1.40	2.00	11.70	0.76	3.20	8.95	0.84
1.40 - 1.45	3.50	16.10	0.95	6.70	12.69	0.90
1.45 - 1.50	3.70	18.50	0.82	10.40	14.75	0.87
1.50 - 1.55	4.80	21.40	0.56	15.20	16.85	0.77
1.55 - 1.60	4.00	23.50	0.63	19.20	18.24	0.74
1.60 - 1.70	13.00	27.60	0.72	32.20	22.82	0.73
1.70 - 1.80	7.20	32.20	1.15	39.40	23.88	0.81
1.80 - 1.90	2.90	35.40	0.40	42.30	24.67	0.78
1.90 - SINK	57.70	83.50	5.00	100.00	58.61	3.22

OK p.m. 2.

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN) METHOD) & WASHABILITY
 LAB NO: 6014
 DATE: OCTOBER 31, 1983

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	2.00	3.20	0.92	2.00	3.20	0.92
1.30 - 1.35	9.00	5.40	0.80	11.00	5.00	0.82
1.35 - 1.40	5.40	11.10	0.78	16.40	7.01	0.81
1.40 - 1.45	7.40	16.40	0.72	23.80	9.93	0.78
1.45 - 1.50	5.10	20.10	0.74	28.90	11.72	0.77
1.50 - 1.55	4.80	22.10	0.93	33.70	13.20	0.80
1.55 - 1.60	6.30	25.00	0.82	40.00	15.06	0.80
1.60 - 1.70	7.60	28.50	1.01	47.60	17.21	0.83
1.70 - 1.80	4.90	33.80	0.97	52.50	18.75	0.85
1.80 - 1.90	3.10	39.50	1.38	55.60	19.91	0.88
1.90 - SINK	44.40	84.40	2.56	100.00	48.54	1.62

OK NOV 2

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	13.80	2.90	0.92	13.80	2.90	0.92
1.30 - 1.35	20.30	6.00	0.83	34.10	4.75	0.87
1.35 - 1.40	10.10	10.60	0.78	44.20	6.08	0.85
1.40 - 1.45	9.80	15.80	0.77	54.00	7.85	0.83
1.45 - 1.50	4.70	20.60	0.82	58.70	8.87	0.83
1.50 - 1.55	2.90	23.90	1.02	61.60	9.58	0.84
1.55 - 1.60	3.30	29.10	1.32	64.90	10.57	0.86
1.60 - 1.70	3.80	32.10	1.01	68.70	11.76	0.87
1.70 - 1.80	2.90	37.00	1.17	71.60	12.78	0.89
1.80 - 1.90	1.80	44.00	1.26	73.40	13.55	0.89
1.90 - SINK	26.60	82.00	1.68	100.00	31.76	1.10

OK NOV 17

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN) METHOD) & WASHABILITY
 LAB NO: 6014
 DATE: OCTOBER 31, 1983

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	20.40	2.60	0.92	20.40	2.60	0.92
1.30 - 1.35	23.20	5.70	0.81	43.60	4.25	0.86
1.35 - 1.40	15.20	9.60	0.75	58.80	5.63	0.83
1.40 - 1.45	10.10	14.40	0.72	68.90	6.92	0.82
1.45 - 1.50	4.80	19.80	0.90	73.70	7.76	0.82
1.50 - 1.55	2.00	24.20	0.74	75.70	8.19	0.82
1.55 - 1.60	1.70	28.20	0.84	77.40	8.63	0.82
1.60 - 1.70	2.40	33.30	1.00	79.80	9.37	0.83
1.70 - 1.80	1.60	39.50	0.95	81.40	9.96	0.83
1.80 - 1.90	1.60	48.90	1.09	83.00	10.72	0.83
1.90 - SINK	17.00	79.50	0.86	100.00	22.41	0.84

OK NOV. 17

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	20.40	2.20	0.72	20.40	2.20	0.72
1.30 - 1.35	24.70	5.50	0.68	45.10	4.01	0.70
1.35 - 1.40	16.80	9.20	0.64	61.90	5.42	0.68
1.40 - 1.45	6.70	13.60	0.73	68.60	6.22	0.69
1.45 - 1.50	4.50	16.50	0.65	73.10	6.85	0.68
1.50 - 1.55	3.70	20.60	0.77	76.80	7.51	0.69
1.55 - 1.60	2.30	25.60	0.85	79.10	8.04	0.69
1.60 - 1.70	2.30	32.20	1.04	81.40	8.72	0.70
1.70 - 1.80	1.30	40.60	1.07	82.70	9.22	0.71
1.80 - 1.90	1.00	46.60	1.07	83.70	9.67	0.71
1.90 - SINK	16.30	78.00	1.15	100.00	20.81	0.78

OK NOV. 17

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN) METHOD) & WASHABILITY
 LAB NO: 6014
 DATE: OCTOBER 31, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	23.00	2.60	0.97	23.00	2.60	0.97
1.30 - 1.35	26.70	5.40	0.91	49.70	4.10	0.94
1.35 - 1.40	12.60	8.50	0.77	62.30	4.99	0.90
1.40 - 1.45	7.80	12.60	0.95	70.10	5.84	0.91
1.45 - 1.50	4.70	17.20	0.78	74.80	6.55	0.90
1.50 - 1.55	3.40	21.40	1.02	78.20	7.20	0.91
1.55 - 1.60	1.70	25.10	1.03	79.90	7.58	0.91
1.60 - 1.70	2.00	32.30	1.20	81.90	8.18	0.92
1.70 - 1.80	1.20	39.60	1.30	83.10	8.64	0.92
1.80 - 1.90	0.80	46.30	1.33	83.90	9.00	0.93
1.90 - SINK	16.10	77.70	1.44	100.00	20.06	1.01

OK NOV. 17

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	16.70	2.50	1.12	16.70	2.50	1.12
1.30 - 1.35	22.90	5.00	0.90	39.60	3.95	0.99
1.35 - 1.40	18.00	7.70	1.04	57.60	5.12	1.01
1.40 - 1.45	10.00	10.40	0.79	67.60	5.90	0.98
1.45 - 1.50	5.60	14.90	0.97	73.20	6.59	0.97
1.50 - 1.55	3.50	20.30	0.97	76.70	7.21	0.97
1.55 - 1.60	2.00	24.40	1.06	78.70	7.65	0.98
1.60 - 1.70	1.80	30.10	1.21	80.50	8.15	0.98
1.70 - 1.80	1.50	38.00	1.21	82.00	8.70	0.99
1.80 - 1.90	1.20	47.10	1.21	83.20	9.25	0.99
1.90 - SINK	16.80	78.50	1.62	100.00	20.89	1.10

OK NOV. 17

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 3 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN) METHOD) & WASHABILITY
 LAB NO: 6014
 DATE: OCTOBER 31, 1983

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	31.70	15.60	0.83	31.70	15.60	0.83
STAGE 2	11.10	23.60	0.83	42.80	17.67	0.83
TAILINGS	57.20	46.70	0.96	100.00	34.28	0.90

PULP DENSITY = 10%
 REAGENT/DOSAGE = 4:1 = KEROSENE:MIBC/0.50 LB/TONNE
 CONDITIONING = 60 SECONDS
 STAGE I = FIRST MINUTE FROTH
 STAGE II = SECOND MINUTE FROTH

NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 7.7%
3. FEED ASA 58.6%

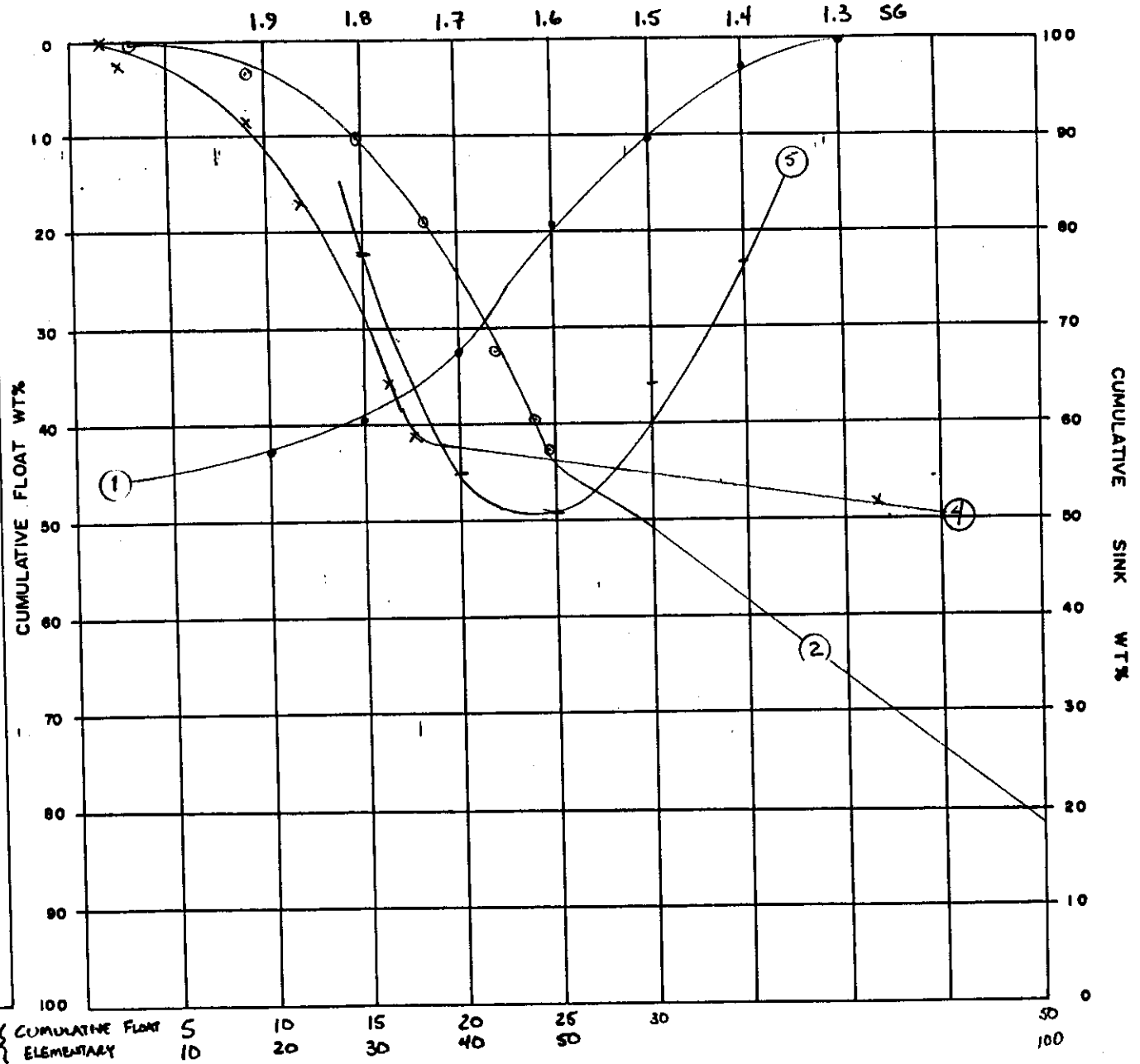
4. CONSIDER THIS SIZE FRACTION AS POTENTIAL "LOCAL" PRODUCT
 HOWEVER - SULPHUR FALLS OUT READILY - CUM. FLOAT @ 1.9:

25% ASH
 70% S

∴ THIS COAL CAN POSSIBLY BE SHIPPED FOR EXPORT AS A BLEND PRODUCT.

BUT PRODUCTION SCHEDULE + BLENDING MUST BE FIRST RATE OPERATIONS.

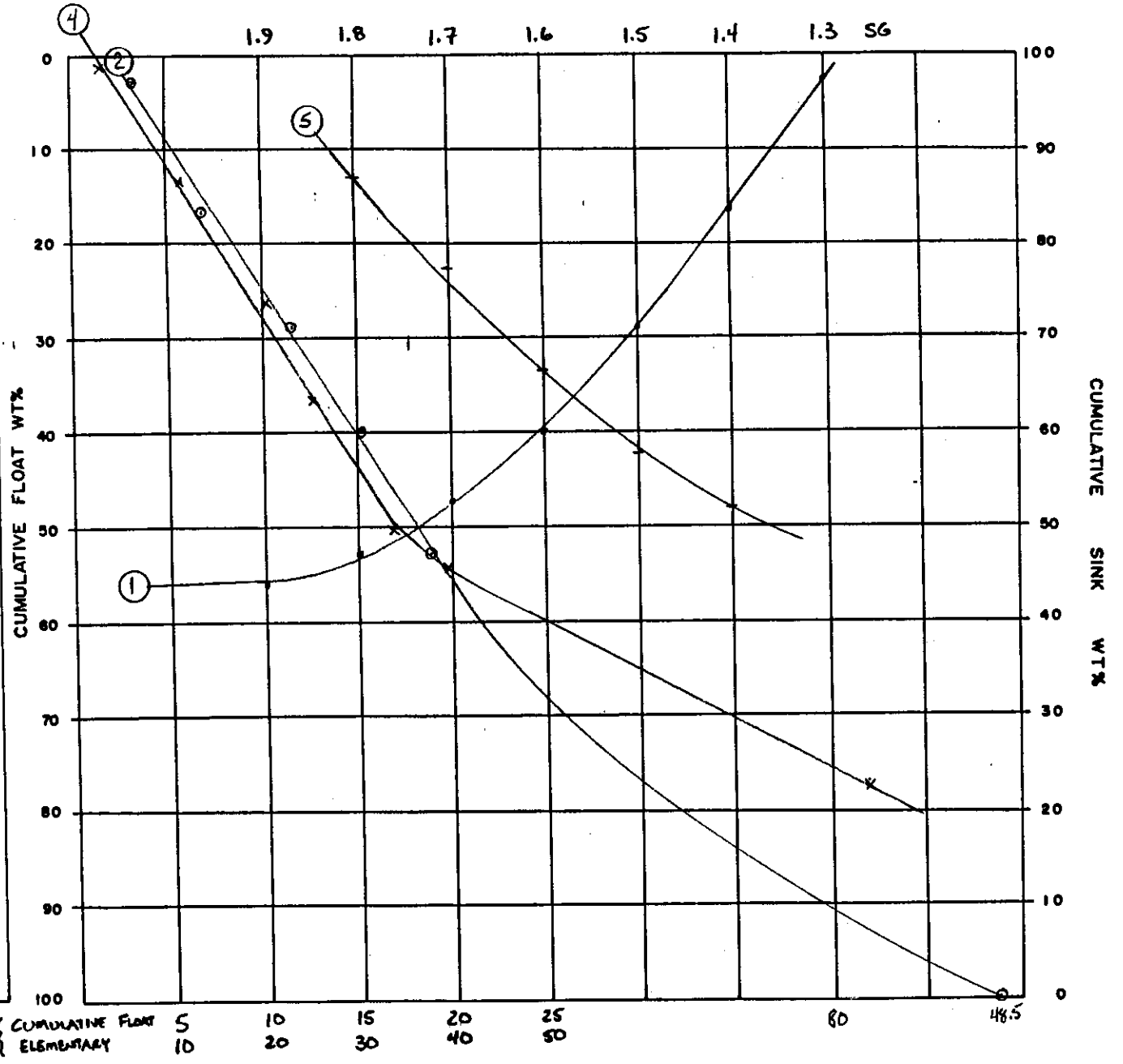
CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELUKMA SEAM 3 100x25mm ATTIFIED DATE: OCT/83
 CURVE 1 - YIELD/SG
 CURVE 2 - CUM.FLOAT / ASH %
 CURVE 3 - CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG ±



NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 10.27.

GROVS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEM 3 25x4.5 mm ATTRITED DATE: OCT 183
 CURVE 1 - YIELD/SG *
 CURVE 2 CUM. FLOAT / ASH 0
 CURVE 3 CUM. SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ± 0.1 SG +

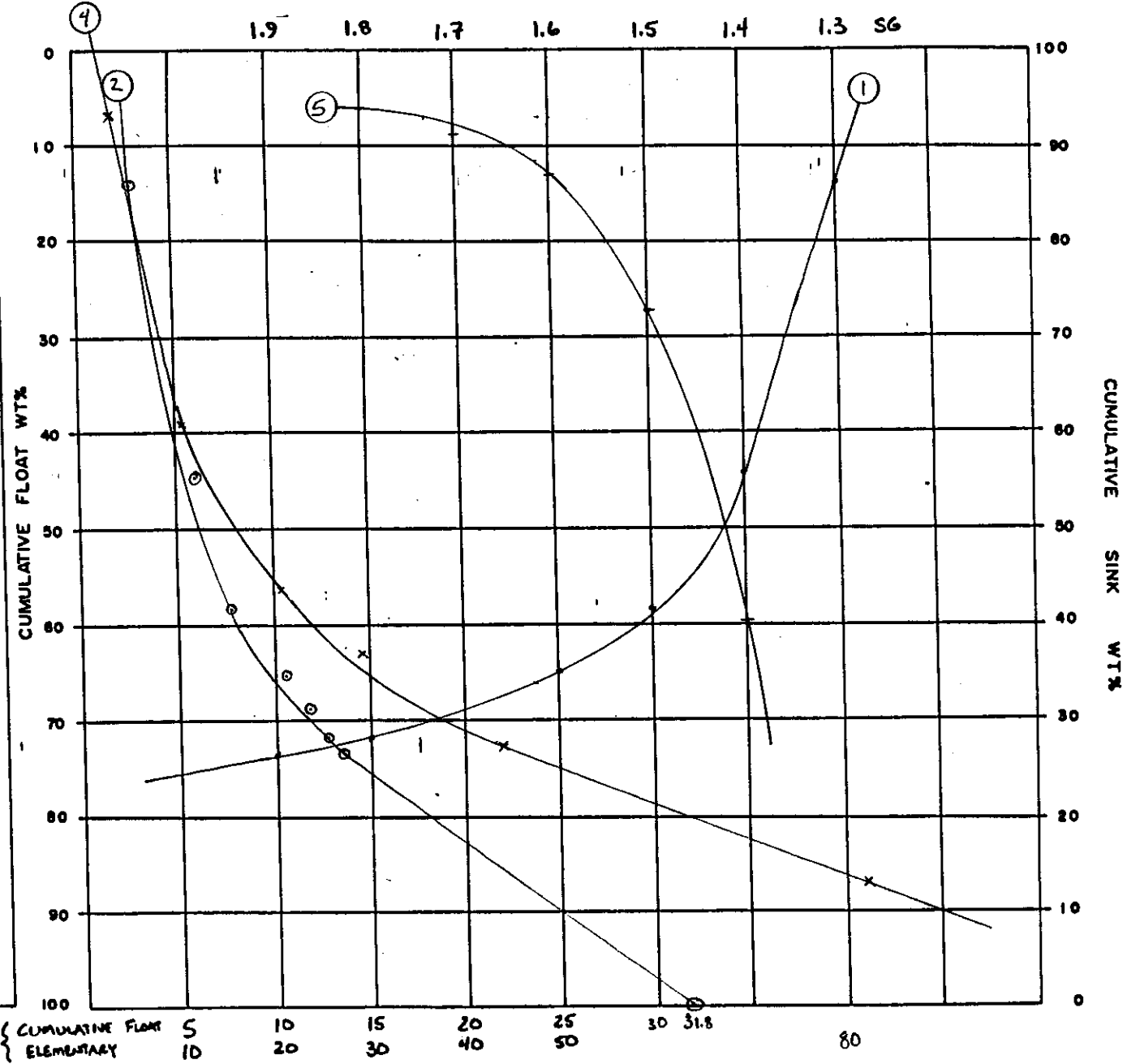


NOTES

1. DILUTION, EXCLUDED
2. WT% OF PLANT FEED = 25.3
3. EXTREMELY HIGH ASH PARTICLES IN THE SINK 1.9 FRACTION - 82% ASH.
4. ELEMENTARY ASH CURVE NOT AS INFLECTED AS OTHER SETS - INDICATING MORE MIDDINGS, BUT THE HEAVY GRAVITY MATERIAL IS ACCEPTABLY LOW.

GROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 3 4.5x2mm ATTRITED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM. FLOAT / ASH ○
 CURVE 3 CUM. SINK / ASH ×
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG +

ASH %

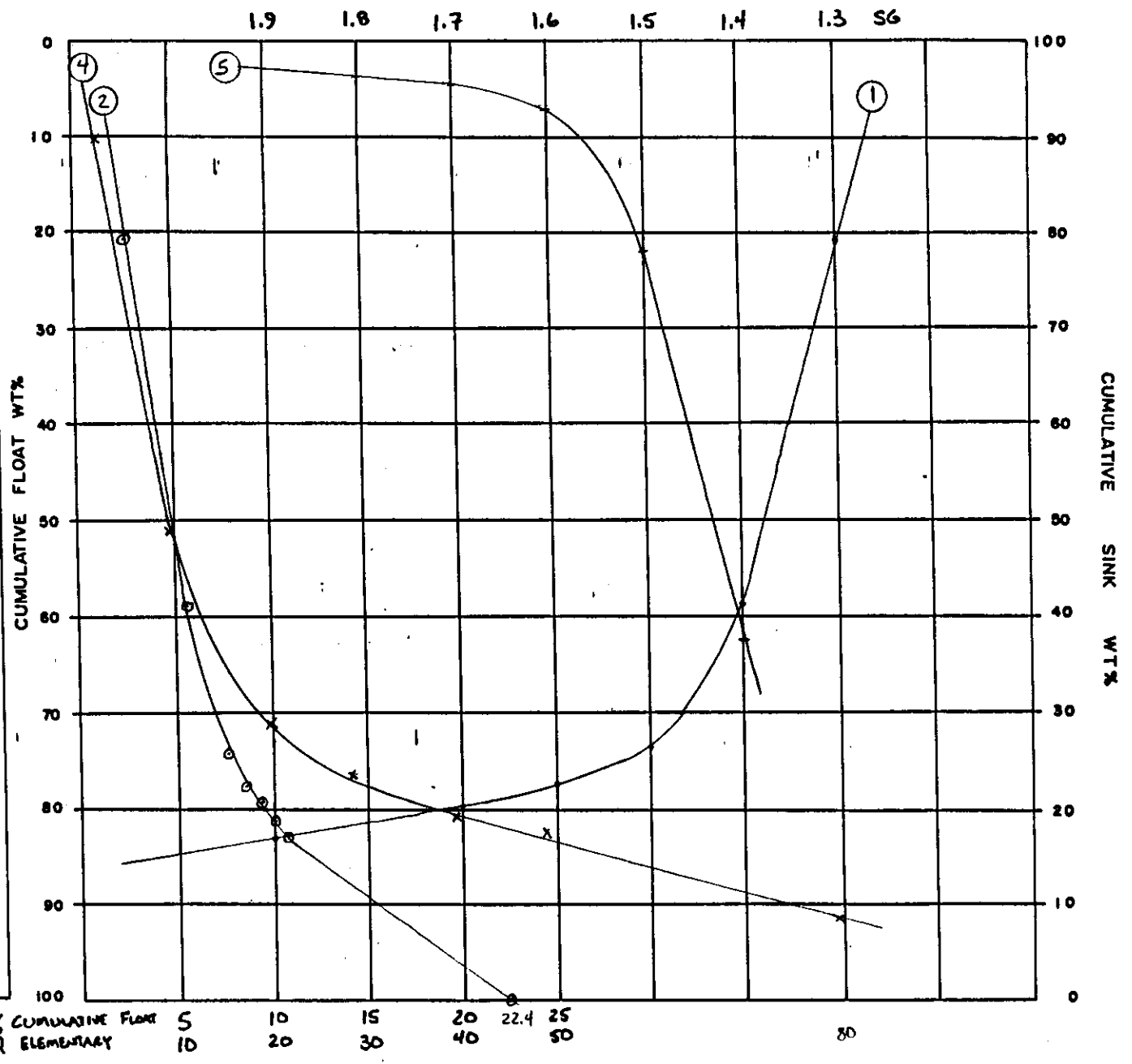


NOTES

1. DILUTION, EXCLUDED
2. WT% OF PLANT FEED = 11.7%

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 3 24mm ATTACHED DATE: OCT/83
 CURVE 1 - YIELD/SG ◊
 CURVE 2 CUM.FLOAT/ASH ◊
 CURVE 3 CUM.SINK / ASH

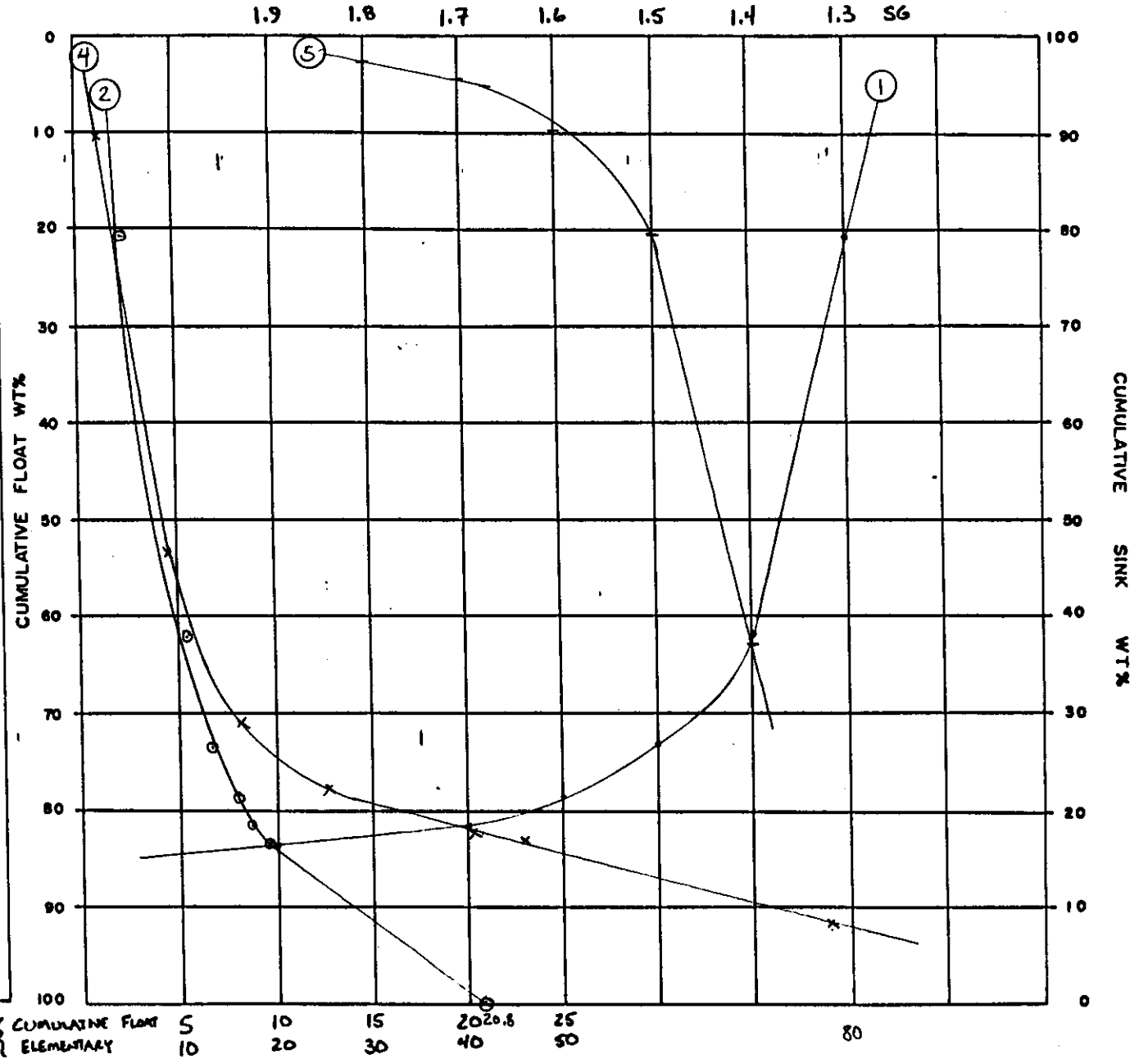
ASH %



NOTES

1. DILUTION, EXCLUDED
2. WT% OF PLANT FEED = 16.4%

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 3 1x.6mm ATTITED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ○
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG +

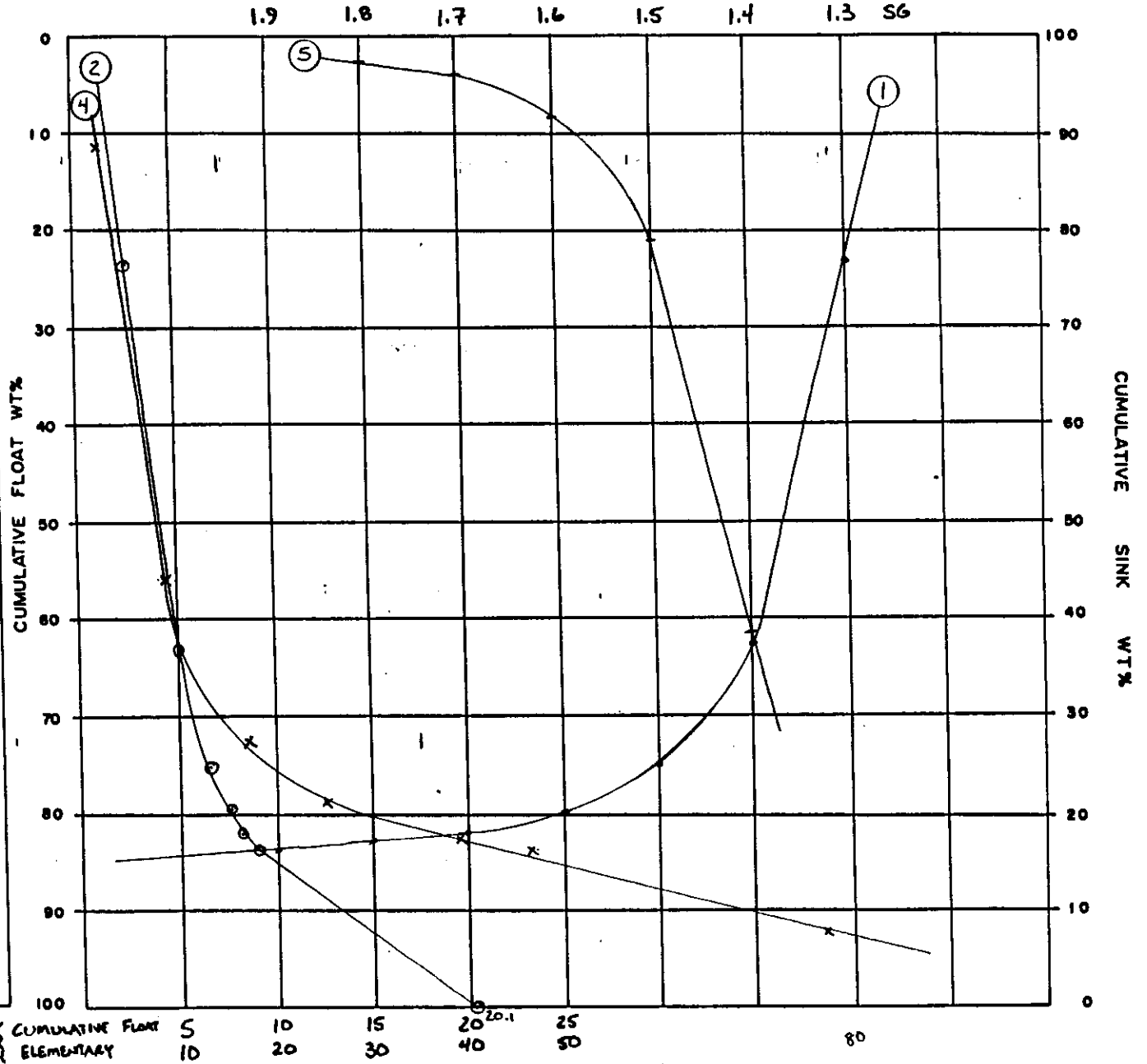


NOTES

1. DILUTION, EXCLUDED
2. WT% OF PLANT FEED = 10.27%

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 3 0.6x.3mm ATTACHED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM. FLOAT / ASH ○
 CURVE 3 CUM. SINK / ASH ×
 CURVE 4 - ELEMENTARY ASH ×
 CURVE 5 - ±01 SG +

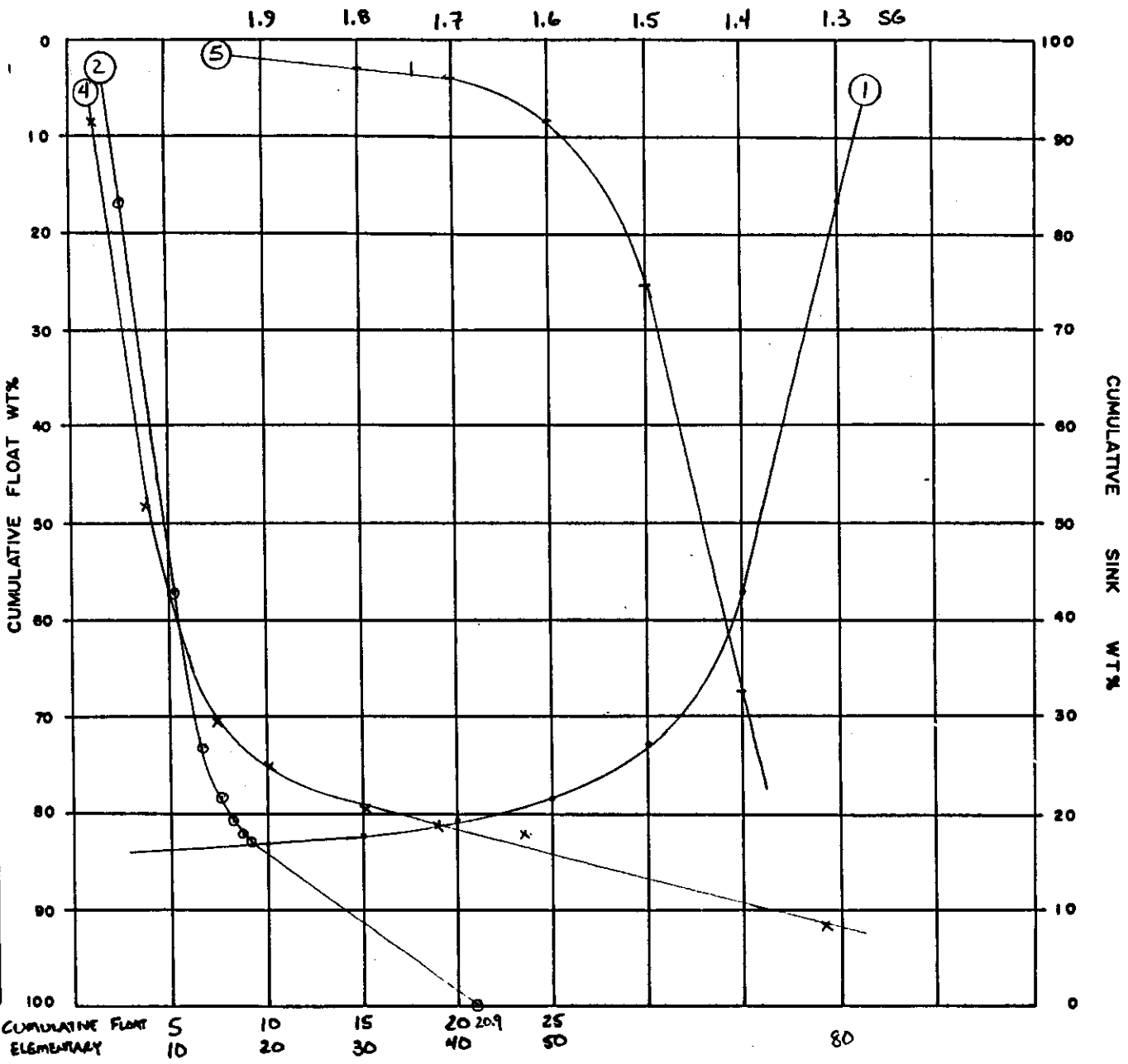
ASH %



NOTES

- 1. DILUTION EXCLUDED
- 2. WT% OF PLANT FEED = 6.9%

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 3 0.3x.15 mm ATTACHED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ○
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±01 SG †



Ash % { CUMULATIVE FLOAT ELEMENTARY 5 10 15 20 25 30 40 50 80

DESCRIPTION: TELKWA SEAM 3 ATTRITED

DATE: OCT/83

SIZE RANGE: +25 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS %		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	INC. WT %	CUM. ASH %			
FLOAT 1.30	0.1	3.0	0.1	3.0	0.92	0.92	0.05		
SINK 1.30 FLOAT 1.35	1.1	4.5	1.2	4.4	0.99	0.98	0.65		
SINK 1.35 FLOAT 1.40	2.0	11.7	3.2	9.0	0.76	0.84	2.2	23.2	1.4
SINK 1.40 FLOAT 1.45	3.5	16.1	6.7	12.7	0.95	0.9	5.0	36	1.5
SINK 1.45 FLOAT 1.50	3.7	18.5	10.4	14.8	0.82	0.87	8.6	49	1.6
SINK 1.50 FLOAT 1.55	4.8	21.4	15.2	16.9	0.56	0.77	12.8	45	1.7
SINK 1.55 FLOAT 1.60	4.0	23.5	19.2	18.2	0.63	0.74	17.2	22.7	1.8
SINK 1.60 FLOAT 1.70	13.0	27.6	32.2	22.0	0.92	0.73	25.7		
SINK 1.70 FLOAT 1.80	7.2	32.2	39.4	23.9	1.15	0.81	35.8		
SINK 1.80 FLOAT 1.90	2.9	35.4	42.3	24.7	0.4	0.78	40.9		
SINK 1.90	57.7	83.5	100	58.6	5.0	3.22	48.6		

COMMENTS:

DESCRIPTION: TELKWA SEAM 3

ATTACHED 100mm TOP S

DATE: OCT/83

SIZE RANGE: 25 x 9.5mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	INC WT%	CUM. ASH %			
FLOAT 1.30	2.0	3.2	2.0	3.2	0.92	0.92	1.0		
SINK 1.30 FLOAT 1.35	9.0	5.4	11.0	5.0	0.80	0.82	6.5		
SINK 1.35 FLOAT 1.40	5.4	11.1	16.4	7.0	0.78	0.81	13.7	48	1.4
SINK 1.40 FLOAT 1.45	7.4	16.4	23.8	9.9	0.72	0.78	20.1	42.1	1.5
SINK 1.45 FLOAT 1.50	5.1	20.1	28.9	11.7	0.74	0.77	26.4	33.4	1.6
SINK 1.50 FLOAT 1.55	4.8	22.1	33.7	13.2	0.93	0.80	31.3	22.3	1.7
SINK 1.55 FLOAT 1.60	6.3	25.0	40.0	15.1	0.82	0.80	36.9	14.3	1.8
SINK 1.60 FLOAT 1.70	7.6	28.5	47.6	17.2	1.01	0.83	43.8		
SINK 1.70 FLOAT 1.80	4.9	33.8	52.5	18.8	0.97	0.85	50.1		
SINK 1.80 FLOAT 1.90	3.1	39.5	55.6	19.9	1.38	0.88	54.1		
SINK 1.90	44.4	84.4	100	48.5	2.56	1.62	77.8		

COMMENTS :

DESCRIPTION : TELKWA SEAM 3 ATTRITED

DATE : OCT/83

SIZE RANGE : 9.5 x 2 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS S		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH%	WT%	ASH%	INC. WT%	CUM. ASH%			
FLOAT 1.30	13.8	2.9	13.8	2.9	0.92	0.92	6.9		
SINK 1.30 FLOAT 1.35	20.3	6.0	34.1	4.8	0.83	0.87	24		
SINK 1.35 FLOAT 1.40	10.1	10.6	44.2	6.0	0.78	0.85	39.2	59.5	1.4
SINK 1.40 FLOAT 1.45	9.8	15.8	54.0	7.8	0.77	0.83	49.1	27.4	1.5
SINK 1.45 FLOAT 1.50	4.7	20.6	58.7	8.9	0.82	0.83	56.4	13.3	1.6
SINK 1.50 FLOAT 1.55	2.9	23.9	61.6	9.6	1.02	0.84	60.2	8.9	1.7
SINK 1.55 FLOAT 1.60	3.3	29.1	64.9	10.6	1.32	0.86	63.3	6.2	1.8
SINK 1.60 FLOAT 1.70	3.8	32.1	68.7	11.8	1.01	0.87	66.8		
SINK 1.70 FLOAT 1.80	2.9	37.0	71.6	12.8	1.17	0.89	70.2		
SINK 1.80 FLOAT 1.90	1.8	44.0	73.4	13.6	1.26	0.89	72.5		
SINK 1.90	26.6	82.0	100	31.8	1.68	1.10	86.7		

COMMENTS : LOW S IN THE HEAVY GRAVITIES - REFLECTS ABSENCE OF PYRITIC COMPONENT - DOMINANCE OF ORGANIC SULPHUR.

DESCRIPTION : TELKWA

SEAM 3 ATTRITED

DATE : OCT/83

SIZE RANGE : 2 x 1 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS %		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	INC. WT %	CUM. ASH %			
FLOAT 1.30	20.4	2.6	20.4	2.6	0.92	0.92	10.2		
SINK 1.30 FLOAT 1.35	23.2	5.7	43.6	4.3	0.81	0.86	32		
SINK 1.35 FLOAT 1.40	15.2	9.6	58.8	5.6	0.75	0.83	51.2	62.7	1.4
SINK 1.40 FLOAT 1.45	10.1	14.4	68.9	6.9	0.72	0.82	63.9	21.9	1.5
SINK 1.45 FLOAT 1.50	4.8	19.8	73.7	7.8	0.90	0.82	71.3	7.2	1.6
SINK 1.50 FLOAT 1.55	2.0	24.2	75.7	8.2	0.74	0.82	74.7	4.7	1.7
SINK 1.55 FLOAT 1.60	1.7	28.2	77.4	8.6	0.84	0.82	76.6	3.8	1.8
SINK 1.60 FLOAT 1.70	2.4	33.3	79.8	9.4	1.00	0.83	78.6		
SINK 1.70 FLOAT 1.80	1.6	39.5	81.4	10.0	0.95	0.83	80.6		
SINK 1.80 FLOAT 1.90	1.6	48.9	83.0	10.7	1.09	0.83	82.2		
SINK 1.90	17.0	79.5	100	22.4	0.86	0.84	91.5		

COMMENTS :

DESCRIPT : TELKWA SEAM 3 ATTRITED

DATE : OCT/83

SIZE RANGE : 1 x .6 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS S		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	INC. WT %	CUM. ASH %			
FLOAT 1.30	20.4	2.2	20.4	2.2	0.72	0.72	10.2		
SINK 1.30 FLOAT 1.35	24.7	5.5	45.1	4.0	0.68	0.70	32.8		
SINK 1.35 FLOAT 1.40	16.8	9.2	61.9	5.4	0.64	0.68	53.5	62.5	1.4
SINK 1.40 FLOAT 1.45	6.7	13.6	68.6	6.2	0.73	0.69	65.3	20.4	1.5
SINK 1.45 FLOAT 1.50	4.5	16.5	73.1	6.9	0.65	0.68	70.9	9.9	1.6
SINK 1.50 FLOAT 1.55	3.7	20.6	76.8	7.5	0.77	0.69	75.0	4.3	1.7
SINK 1.55 FLOAT 1.60	2.3	25.6	79.1	8.0	0.85	0.69	78.0	2.7	1.8
SINK 1.60 FLOAT 1.70	2.3	32.2	81.4	8.7	1.04	0.70	80.3		
SINK 1.70 FLOAT 1.80	1.3	40.6	82.7	9.2	1.07	0.71	82.1		
SINK 1.80 FLOAT 1.90	1.0	46.6	83.7	9.7	1.07	0.71	83.2		
SINK 1.90	16.3	78.0	100	20.8	1.15	0.78	91.9		

COMMENTS :

DESCRIPTION: TELKWA SEAM 3 ATTRITED

DATE: OCT/83

SIZE RANGE: 0.6 x 0.3 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS S		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	INC. WT %	CUM. ASH %			
FLOAT 1.30	23.0	2.6	23.0	2.6	0.97	0.97	11.5		
SINK 1.30 FLOAT 1.35	26.7	5.4	49.7	4.1	0.91	0.94	36.4		
SINK 1.35 FLOAT 1.40	12.6	8.5	62.3	5.0	0.77	0.90	56.0	61.6	1.4
SINK 1.40 FLOAT 1.45	7.8	12.6	70.1	5.8	0.95	0.91	66.2	20.9	1.5
SINK 1.45 FLOAT 1.50	4.7	17.2	74.8	6.6	0.78	0.90	72.5	8.4	1.6
SINK 1.50 FLOAT 1.55	3.4	21.4	78.2	7.2	1.02	0.91	76.5	3.8	1.7
SINK 1.55 FLOAT 1.60	1.7	25.1	79.9	7.6	1.03	0.91	79.1	2.4	1.8
SINK 1.60 FLOAT 1.70	2.0	32.3	81.9	8.2	1.20	0.92	80.9		
SINK 1.70 FLOAT 1.80	1.2	39.6	83.1	8.6	1.30	0.92	82.5		
SINK 1.80 FLOAT 1.90	0.8	46.3	83.9	9.0	1.33	0.93	83.5		
SINK 1.90	16.1	77.7	100	20.1	1.44	1.01	92.0		

COMMENTS:

- MIDDINGS LACK OF INDICATION BY AVERAGE GRAVITY MEASURE → ALSO INDICATES LOW YIELD AT HIGHER DENSITIES IE - DENSITY DIST. SKewed TO LOW END.
- MINERAL ASH PRODUCT ≈ 10% → APPEARS TO REDUCE CV. MAX. - SIMPLEST CV TO MAKE ANYWAYS KISS PRINCIPLE
- FALLACY OF ADDING 100% ASH PARTIALS TO THE PRODUCT - NEW LINEAR CV. REDUCTIONS

DESCRIPTION : TELKWA SEAM 3 ATTRITED

DATE : OCT/83

SIZE RANGE : 0.3 x 0.15 mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		GUM SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH%	WT%	ASH%	INC. WT%	CUM. ASH%			
Float 1.30	16.7	2.5	16.7	2.5	1.12	1.12	8.4		
SINK 1.30 Float 1.35	22.9	5.0	39.6	4.0	0.90	0.99	28.2		
SINK 1.35 Float 1.40	18.0	7.7	57.6	5.1	1.04	1.01	48.6	67.4	1.4
SINK 1.40 Float 1.45	10.0	10.4	67.6	5.9	0.79	0.98	62.6	25.2	1.5
SINK 1.45 Float 1.50	5.6	14.9	73.2	6.6	0.97	0.97	70.4	8.7	1.6
SINK 1.50 Float 1.55	3.5	20.3	76.7	7.2	0.97	0.97	75.0	3.9	1.7
SINK 1.55 Float 1.60	2.0	24.4	78.7	7.7	1.06	0.98	77.7	3.2	1.8
SINK 1.60 Float 1.70	1.8	30.1	80.5	8.2	1.21	0.98	79.6		
SINK 1.70 Float 1.80	1.5	38.0	82.0	8.7	1.21	0.99	81.3		
SINK 1.80 Float 1.90	1.2	47.1	83.2	9.3	1.21	0.99	82.6		
SINK 1.90	16.8	78.5	100	20.9	1.62	1.10	91.6		

COMMENTS :

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 2 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6390
 DATE: NOVEMBER 2, 1983

All DATA OK. CHECKED

12 X 50KG. BATCHES OF 100MM X 0 RAW COAL TUMBELED FOR 75 SECONDS
 WITH 150 LITRES H2O & 18 STEEL CUBES @ 20 RPM
 WATER SOLUBLE (SOD) IN COAL AS SZ = 0.011

SIZE AND RAW ANALYSIS, air dried basis

SIZE FRACTION (MM)	WTZ	RMZ	ASHZ	SZ	CUMULATIVE		
					WTZ	ASHZ	SZ
+ 50	10.10	2.50	20.70	0.41	10.10	20.70	0.41
50 X 25	11.50	2.50	24.90	0.42	21.60	22.94	0.42
25 X 9.5	18.30	2.50	32.00	0.46	39.90	27.09	0.44
9.5 X 2.0	26.30	2.20	25.00	0.47	66.20	26.26	0.45
2.0 X 1.0	7.30	2.30	20.00	0.49	73.50	25.64	0.45
1.0 X 0.6	9.20	1.80	19.20	0.51	82.70	24.92	0.46
0.6 X 0.3	4.70	1.50	18.30	0.54	87.40	24.57	0.46
.3 X 0.15	3.00	1.30	18.70	0.63	90.40	24.37	0.47
0.15 X 0	9.60	0.80	35.70	0.64	100.00	25.46	0.49

FLOAT-SINK ANALYSIS, air dried basis: + 50MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	3.90	3.10	0.51	3.90	3.10	0.51
1.30 - 1.35	35.60	6.20	0.47	39.50	5.89	0.47
1.35 - 1.40	26.90	11.50	0.42	66.40	8.17	0.45
1.40 - 1.45	12.70	17.80	0.41	79.10	9.71	0.45
1.45 - 1.50	2.90	21.50	0.36	82.00	10.13	0.44
1.50 - 1.55	3.10	23.70	0.33	85.10	10.62	0.44
1.55 - 1.60	0.10	25.50	0.33	85.20	10.64	0.44
1.60 - 1.70	1.10	31.30	0.48	86.30	10.90	0.44
1.70 - 1.80	1.10	44.20	0.39	87.40	11.32	0.44
1.80 - 1.90	0.20	46.90	0.39	87.60	11.40	0.44
1.90 - SINK	12.40	86.50	0.20	100.00	20.72	0.41

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 2 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6340
 DATE: NOVEMBER 2, 1983

FLOAT-SINK ANALYSIS, air dried basis: 50MM X 25MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	0.30	2.90	0.62	0.30	2.90	0.62
1.30 - 1.35	22.20	4.90	0.47	22.50	4.87	0.47
1.35 - 1.40	37.60	7.90	0.43	60.10	6.77	0.45
1.40 - 1.45	9.50	15.40	0.40	69.60	7.95	0.44
1.45 - 1.50	3.40	21.00	0.37	73.00	8.55	0.44
1.50 - 1.55	3.70	24.40	0.37	76.70	9.32	0.43
1.55 - 1.60	1.00	29.50	0.41	77.70	9.58	0.43
1.60 - 1.70	1.20	34.60	0.39	78.90	9.96	0.43
1.70 - 1.80	1.50	42.90	0.42	80.40	10.57	0.43
1.80 - 1.90	8.40	50.80	0.48	80.80	10.77	0.43
1.90 - SINK	19.20	84.10	0.35	100.00	24.85	0.42

FLOAT-SINK ANALYSIS, air dried basis: 25MM X 9.5MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	3.60	3.30	0.61	3.60	3.30	0.61
1.30 - 1.35	25.50	5.50	0.49	29.10	5.23	0.50
1.35 - 1.40	27.30	9.00	0.42	56.40	7.05	0.46
1.40 - 1.45	9.80	16.30	0.40	66.20	8.42	0.45
1.45 - 1.50	1.60	22.40	0.37	67.80	8.75	0.45
1.50 - 1.55	2.40	25.40	0.37	70.20	9.32	0.45
1.55 - 1.60	1.30	29.60	0.37	71.50	9.69	0.45
1.60 - 1.70	1.20	35.70	0.42	72.70	10.12	0.45
1.70 - 1.80	0.50	42.90	0.42	73.20	10.34	0.45
1.80 - 1.90	0.60	44.00	0.43	73.80	10.62	0.45
1.90 - SINK	26.20	86.10	0.42	100.00	30.39	0.44

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKHA SEAM 2 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6390
 DATE: NOVEMBER 2, 1983

FLOAT-SINK ANALYSIS, air dried basis: 9.5MM X 2.0MM

S.G. FRACTION				CUMULATIVE		
	WTZ	ASHZ	SZ	WTZ	ASHZ	SZ
FLOAT - 1.30	14.50	2.60	0.61	14.50	2.60	0.61
1.30 - 1.35	27.40	5.50	0.49	41.90	4.50	0.53
1.35 - 1.40	20.20	8.80	0.43	62.10	5.90	0.50
1.40 - 1.45	8.70	14.10	0.41	70.80	6.90	0.49
1.45 - 1.50	2.30	20.10	0.42	73.10	7.32	0.49
1.50 - 1.55	2.20	24.10	0.37	75.30	7.81	0.48
1.55 - 1.60	1.40	28.90	0.37	76.70	8.19	0.48
1.60 - 1.70	1.30	34.50	0.42	78.00	8.63	0.48
1.70 - 1.80	0.70	41.40	0.42	78.70	8.92	0.48
1.80 - 1.90	0.50	49.60	0.41	79.20	9.18	0.48
1.90 - SINK	20.80	86.30	0.45	100.00	25.22	0.47

FLOAT-SINK ANALYSIS, air dried basis: 2.0MM X 1.0MM

S.G. FRACTION				CUMULATIVE		
	WTZ	ASHZ	SZ	WTZ	ASHZ	SZ
FLOAT - 1.30	26.40	2.10	0.59	26.40	2.10	0.59
1.30 - 1.35	26.20	5.70	0.49	52.60	3.89	0.54
1.35 - 1.40	13.00	7.70	0.45	65.60	4.65	0.52
1.40 - 1.45	11.00	12.50	0.41	76.60	5.78	0.51
1.45 - 1.50	1.70	19.00	0.40	78.30	6.06	0.50
1.50 - 1.55	2.00	23.20	0.37	80.30	6.49	0.50
1.55 - 1.60	1.10	28.50	0.37	81.40	6.79	0.50
1.60 - 1.70	1.30	34.70	0.41	82.70	7.23	0.50
1.70 - 1.80	0.70	42.20	0.41	83.40	7.52	0.50
1.80 - 1.90	0.60	47.50	0.43	84.00	7.80	0.50
1.90 - SINK	16.00	85.80	0.48	100.00	20.28	0.49

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 2 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6340
 DATE: NOVEMBER 2, 1983

FLOAT-SINK ANALYSIS, air dried basis: 1.0MM X 0.6MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	33.00	2.00	0.59	33.00	2.00	0.59
1.30 - 1.35	23.20	5.50	0.50	56.20	3.44	0.55
1.35 - 1.40	6.00	8.20	0.46	62.20	3.90	0.54
1.40 - 1.45	11.20	9.40	0.41	73.40	4.74	0.52
1.45 - 1.50	4.80	13.50	0.40	78.20	5.28	0.52
1.50 - 1.55	2.80	19.00	0.38	81.00	5.75	0.51
1.55 - 1.60	1.60	24.80	0.38	82.60	6.12	0.51
1.60 - 1.70	1.70	31.40	0.40	84.30	6.63	0.51
1.70 - 1.80	0.70	39.80	0.39	85.00	6.91	0.51
1.80 - 1.90	0.40	51.60	0.41	85.40	7.12	0.51
1.90 - SINK	14.60	84.10	0.49	100.00	18.36	0.50

FLOAT-SINK ANALYSIS, air dried basis: 0.6MM X 0.3MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	36.90	1.90	0.59	36.90	1.90	0.59
1.30 - 1.35	17.90	4.80	0.52	54.80	2.85	0.57
1.35 - 1.40	13.10	7.60	0.43	67.90	3.76	0.54
1.40 - 1.45	1.70	9.80	0.46	69.60	3.91	0.54
1.45 - 1.50	7.10	11.60	0.40	76.70	4.62	0.53
1.50 - 1.55	3.80	17.40	0.39	80.50	5.23	0.52
1.55 - 1.60	1.80	23.20	0.39	82.30	5.62	0.52
1.60 - 1.70	1.70	36.50	0.40	84.00	6.12	0.51
1.70 - 1.80	0.80	39.80	0.47	84.80	6.44	0.51
1.80 - 1.90	0.50	48.00	0.55	85.30	6.68	0.51
1.90 - SINK	14.70	82.70	0.67	100.00	17.86	0.54

Birtley Coal
 & Minerals Testing

A DIVISION OF GREAT WEST STEEL INDUSTRIES LTD

CLIENT: CROWS NEST RESOURCES LIMITED
 PROJECT: TELKWA SEAM 2 BULK SAMPLE
 100MM X 0 ATTRITION (AUSTRALIAN METHOD) & WASHABILITY
 LAB NO: 6340
 DATE: NOVEMBER 2, 1983

FLOAT-SINK ANALYSIS, air dried basis: 0.3MM X 0.15MM

S.G. FRACTION	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
FLOAT - 1.30	33.40	1.90	0.60	33.40	1.90	0.60
1.30 - 1.35	21.40	4.50	0.54	54.80	2.92	0.58
1.35 - 1.40	12.90	7.50	0.47	67.70	3.79	0.56
1.40 - 1.45	7.40	10.40	0.45	75.10	4.44	0.55
1.45 - 1.50	3.70	16.70	0.45	78.80	5.02	0.54
1.50 - 1.55	2.40	18.50	0.45	81.20	5.41	0.54
1.55 - 1.60	1.20	24.30	0.45	82.40	5.69	0.54
1.60 - 1.70	1.00	29.60	0.46	83.40	5.98	0.54
1.70 - 1.80	1.20	37.90	0.48	84.60	6.43	0.54
1.80 - 1.90	0.60	48.20	0.63	85.20	6.72	0.54
1.90 - SINK	14.80	82.20	1.15	100.00	17.89	0.63

FROTH FLOTATION TEST, air dried basis: 0.15MM X 0

PRODUCT	WTZ	ASHZ	SZ	CUMULATIVE		
				WTZ	ASHZ	SZ
STAGE 1	26.40	19.80	0.50	26.40	19.80	0.50
STAGE 2	10.10	24.50	0.51	36.50	21.10	0.50
TAILINGS	63.50	45.00	0.74	100.00	36.28	0.65

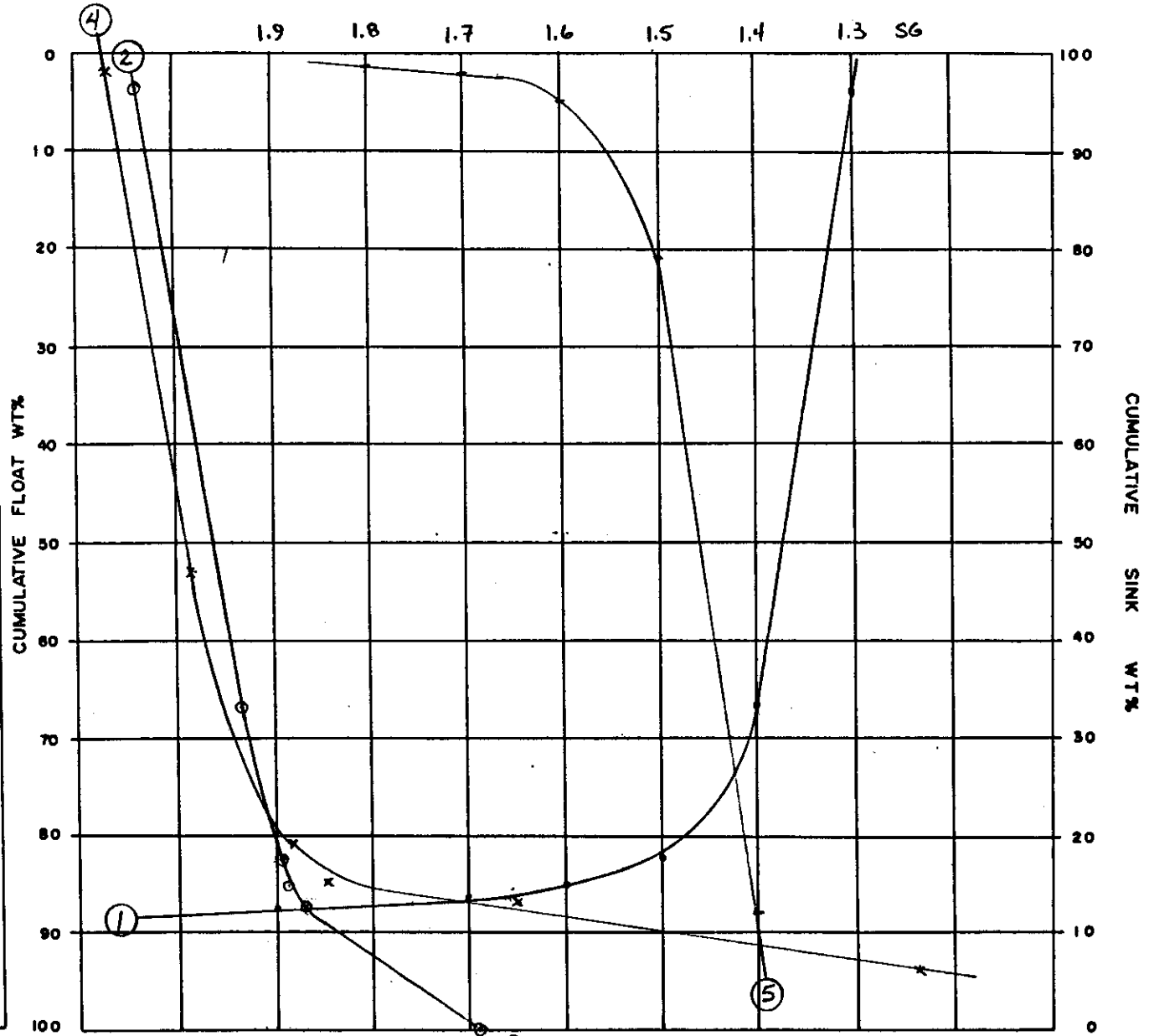
PULP DENSITY = 10Z
 REAGENT/DOSAGE = 4:1 = KEROSENE:MIBC/0.50 LB/TONNE
 CONDITIONING = 60 SECONDS
 STAGE I = FIRST MINUTE FROTH
 STAGE II = SECOND MINUTE FROTH

NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 10.1.
3. GOOD INFLECTION ON ELEMENTARY ASH CURVE - SUGGESTS ABSENCE OF MIDDINGS.
4. VERTICALLY DISPLACED YIELD/SG CURVE REFLECTS PRESENCE OF EASILY SEPARABLE HIGH ASH MATERIAL. EITHER:
 - DILUTION
 - PARTING - .5m PARTING PRESENT IN SAMPLE.

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 2 100x50mm ATTRITED. DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM. FLOAT / ASH ○
 CURVE 3 CUM. SINK / ASH ×
 CURVE 4 - ELEMENTARY ASH ×
 CURVE 5 - ±0.1 SG+

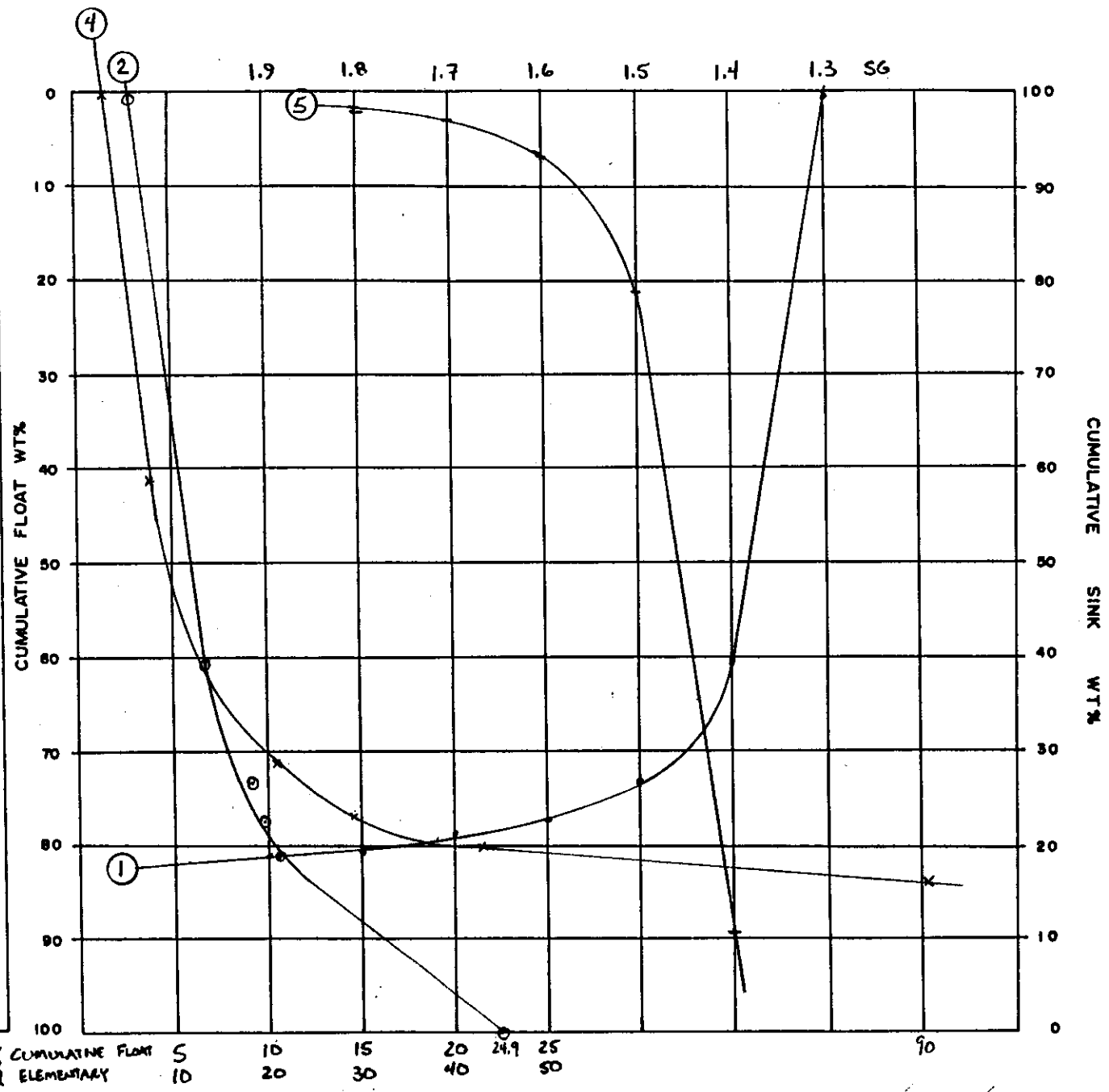
ASH % { CUMULATIVE FLOAT 5 10 15 20 20.7 25 30 40 50 80
 ELEMENTARY 10 20 30 40 50



NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 11.5
3. BUNCHING OF CURVE 2 POINTS @ 10% ASH + 80% YIELD INDICATES THAT HIGHER ASH INCREMENTS ENTER CLEAN COAL PRODUCT WITH LESS EMPHASIS
4. STRAIGHT LINE IN CURVE 2 FROM BUNCHED AREA DOWN TO FEED ASH / 100% YIELD POINTS THE EASY SEPARATION OF HIGH ASH, LIBERATED PARTICLES.

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 2 50x25mm ATLETTED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ◊
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±01 SG +



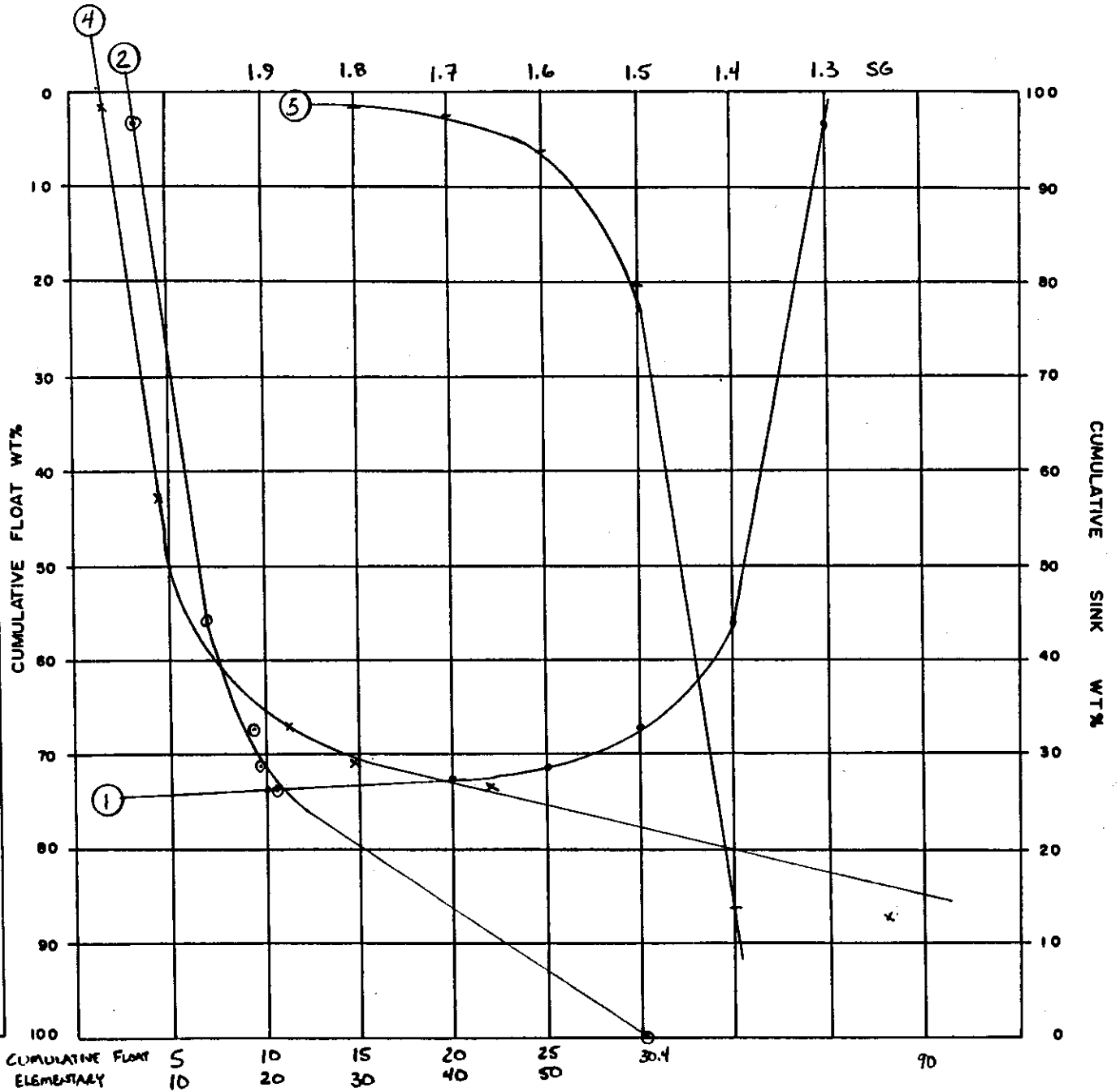
ASH % { CUMULATIVE FLOAT 5 10 15 20 24.9 25 50
 ELEMENTARY 10 20 30 40 50

NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 18.3%
3. SIGNIFICANT AMOUNT OF HIGH ASH MATERIAL (26%) SINKING @ SG 1.9

GROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 2 25x4.5mm ATTATO DATE: OCT/83
 CURVE 1 - YIELD/SG *
 CURVE 2 CUM. FLOAT / ASH %
 CURVE 3 CUM. SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG +

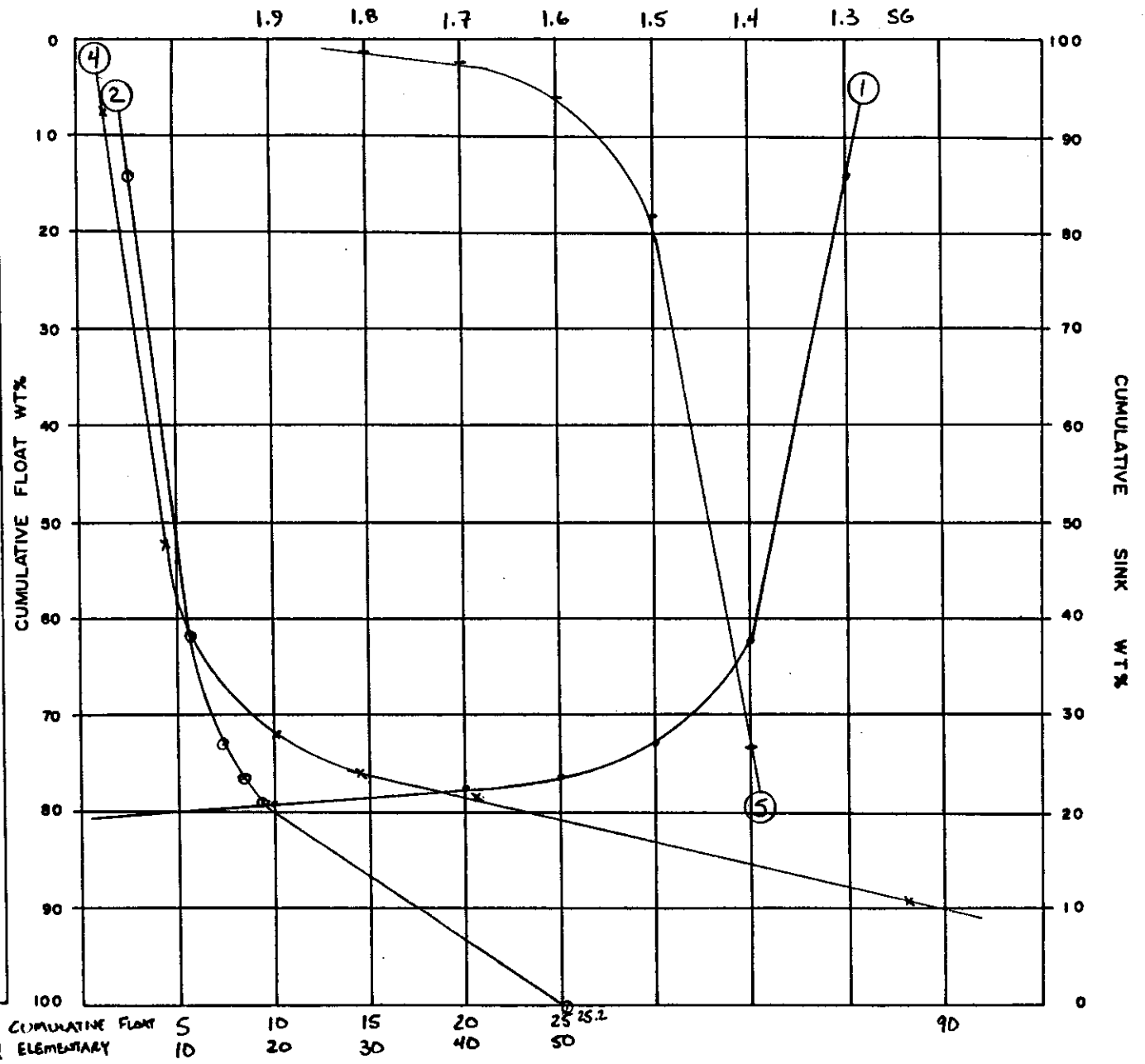
ASH %



NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 26.37
3. OBSERVE INCREASE VITRIALITE PRESENCE - HIGHER YIELD @ 1.3 BASIS IS DEGRADATION / CLASSIFICATION

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 2 9.5x2mm ATTACHED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT / ASH ◊
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH x
 CURVE 5 - ±01 SG +



Ash %

CUMULATIVE FLOAT ELEMENTARY
 5 10 15 20 25 25.2 30 40 50

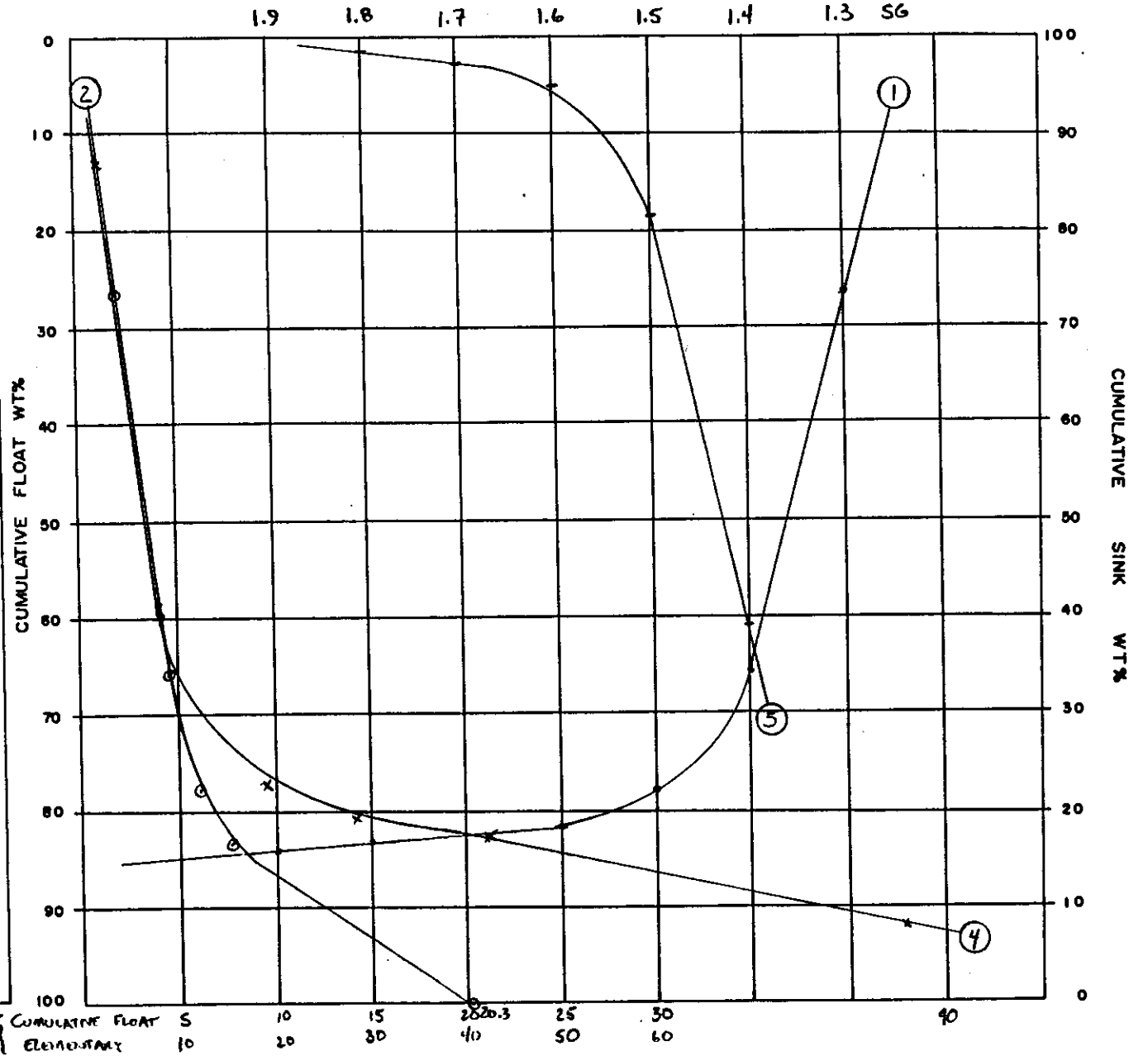
90

NOTES

1. DILUTION EXCLUDED
2. WT% OF PLANT FEED = 7.37%

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 2 2x1mm ATTILED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ○
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±0.1 SG +

ASH 2

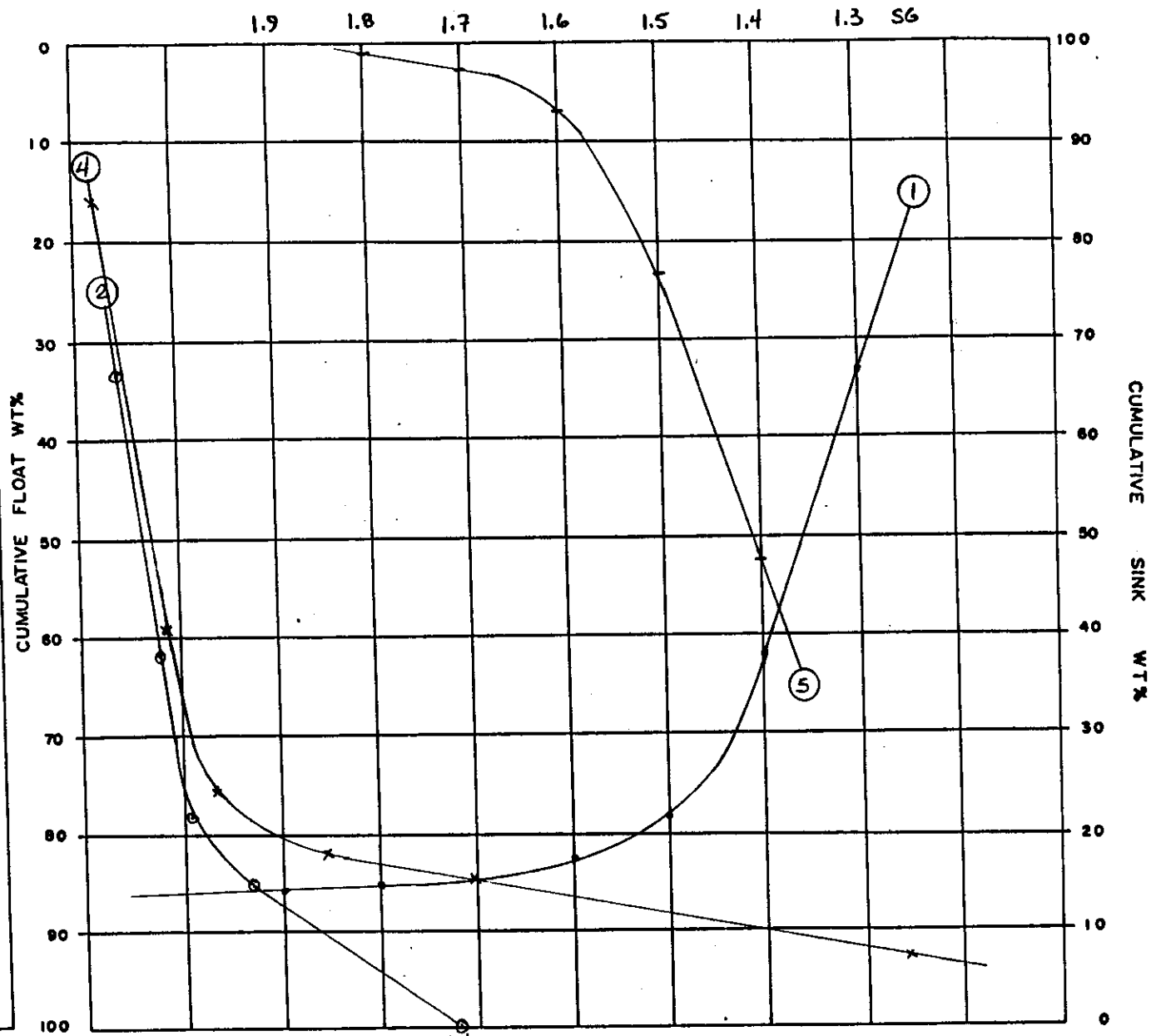


CUMULATIVE FLOAT 5 10 15 20 25 30 35 40
 ELEMENTARY 10 20 30 40 50 60

NOTES
 DILUTION EXCLUDED
 WT% OF PLANT FEED = 9.27.

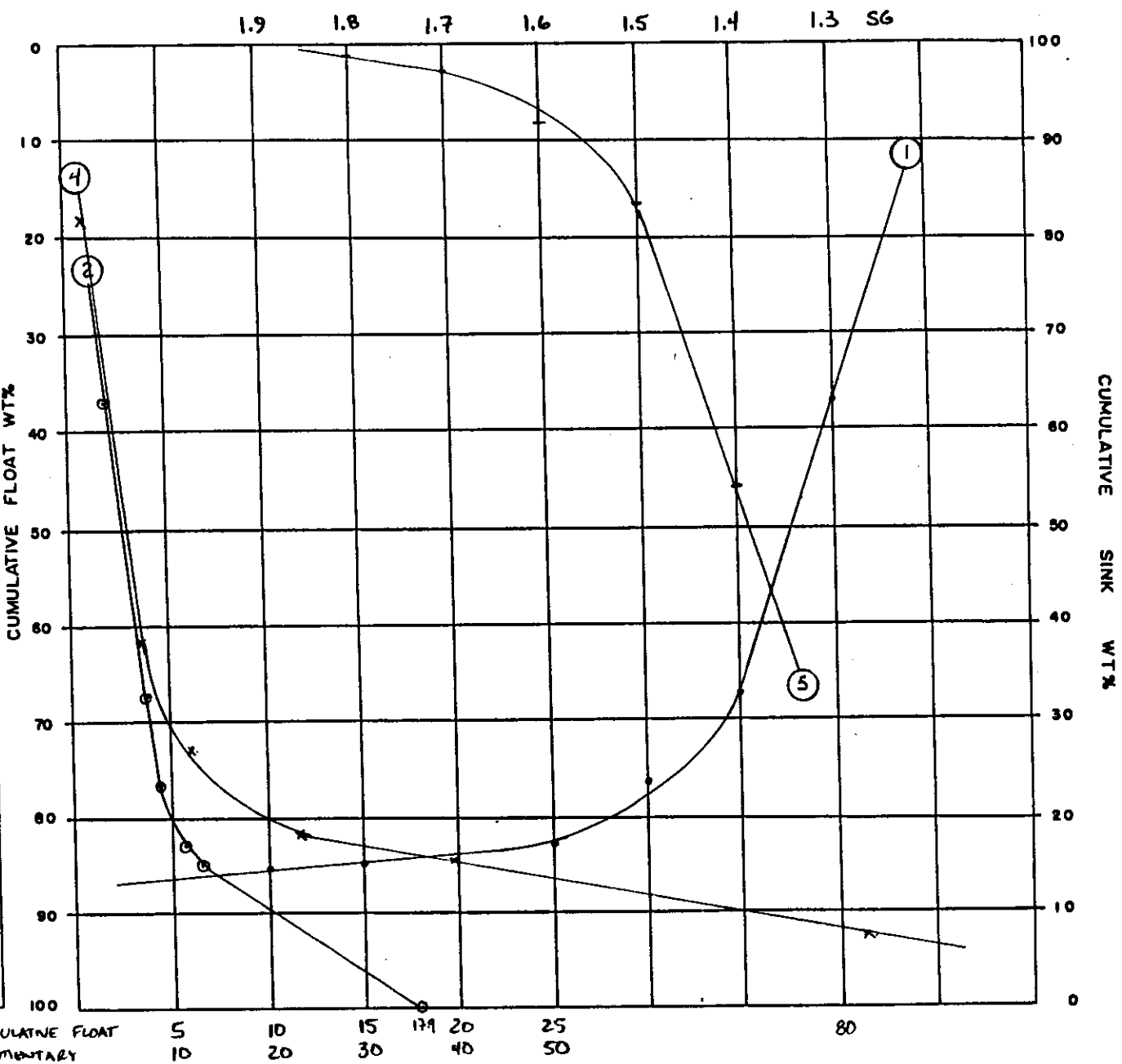
CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEM 2 1x.6mm ATTACHED DATE: OCT/83
 CURVE 1 - YIELD/SG °
 CURVE 2 CUM. FLOAT / ASH ⊙
 CURVE 3 CUM. SINK / ASH
 CURVE 4 - ELEMENTARY ASH x
 CURVE 5 - ±0.1 SG †

ASH 2 { CUMULATIVE FLOAT 5 10 15 20 25
 ELEMENTARY 10 20 30 40 50



NOTES
 DILUTION EXCLUDED
 WT % OF PLANT FEED = 4.7%

CROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEAM 2 .6x.3mm ATTRATED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT/ASH ○
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH x
 CURVE 5 - ±0.1 SG †



ASH %

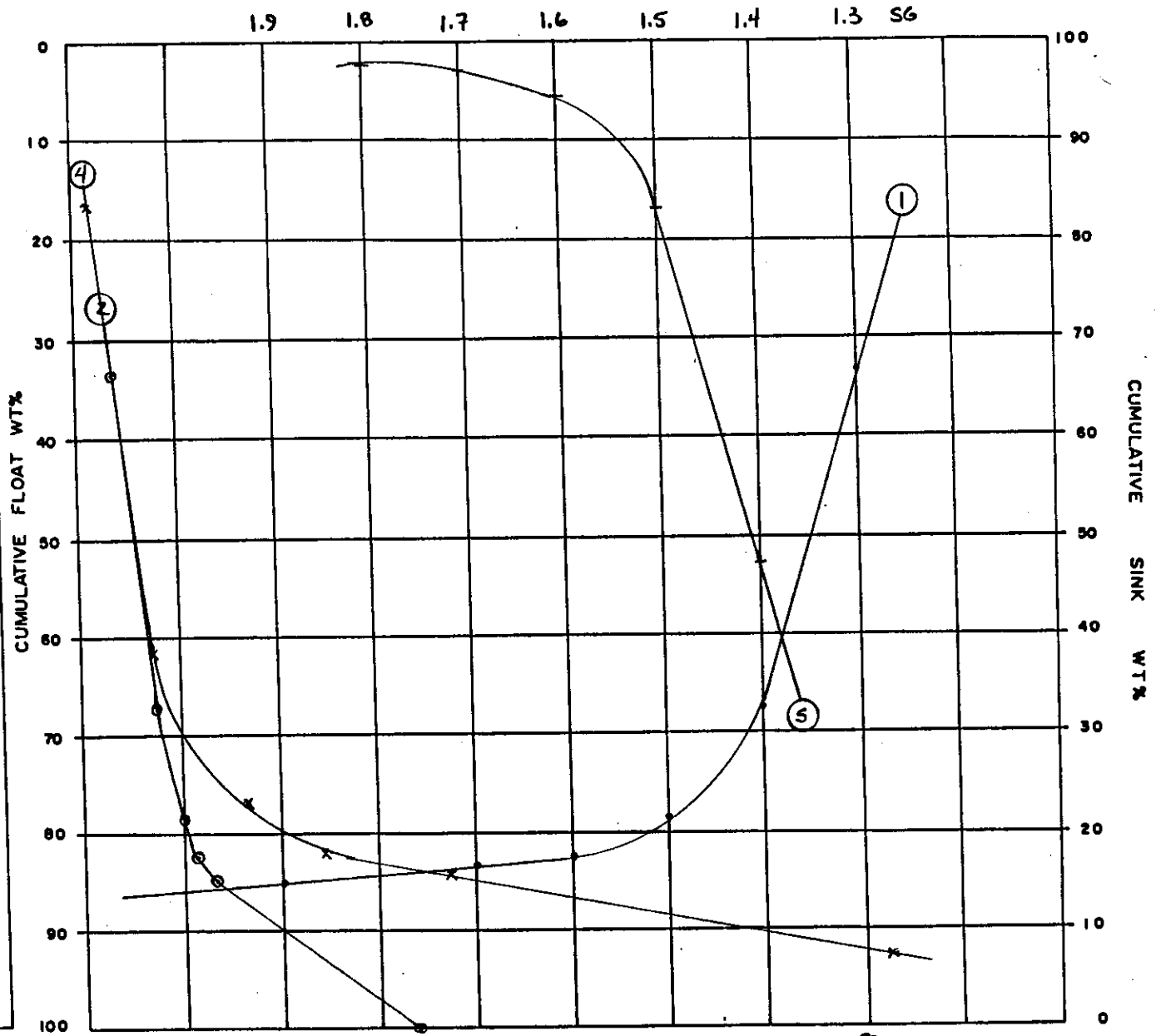
{ CUMULATIVE FLOAT
ELEMENTARY

5 10 15 20 25 30 40 50 80

NOTES
 DILUTION EXCLUDED
 WT% OF PLANT FEED = 3%

GROWS NEST RESOURCES — WASHABILITY CURVES
 DESCRIPTION: TELKWA SEM 2 .3x.15mm ATTRITED DATE: OCT/83
 CURVE 1 - YIELD/SG •
 CURVE 2 CUM.FLOAT / ASH ○
 CURVE 3 CUM.SINK / ASH
 CURVE 4 - ELEMENTARY ASH X
 CURVE 5 - ±01 SG +

ASH % { CUMULATIVE FLOAT 5 10 15 17.1 20 25 30 40 50
 ELEMENTARY 10 20 30 40 50



DESCRIPTION: TELKWA SEAM 2 ATTRITED
DILUTION EXCLUDED

DATE: OCT/83

SIZE RANGE: 50 x 25mm

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	WT%	ASH %			
Float 1.30	.3	2.9	.3	2.9			.2		
SINK 1.30 Float 1.35	22.2	4.9	22.5	4.9			11.4		
SINK 1.35 Float 1.40	37.6	7.9	60.1	6.8			41.3	89	1.4
SINK 1.40 Float 1.45	9.5	15.4	69.6	8.0			64.9	21.5	1.5
SINK 1.45 Float 1.50	3.4	21	73	8.6			71.3	7.2	1.6
SINK 1.50 Float 1.55	3.7	24.4	76.7	9.3			74.9	3.3	1.7
SINK 1.55 Float 1.60	1	29.5	77.7	9.6			77.2	2.3	1.8
SINK 1.60 Float 1.70	1.2	34.6	78.9	10			78.3		
SINK 1.70 Float 1.80	1.5	42.9	80.4	10.6			80		
SINK 1.80 Float 1.90	0.4	50.8	80.8	10.8			80.6		
SINK 1.90	19.2	84.1	100	24.9			90.4		

COMMENTS :

DESCRIPTION: TELKWA SEAM 2 ATTRITED.

DATE: OCT/83

SIZE RANGE: 100 x 50 mm

DILUTION EXCLUDED

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	WT %	ASH %			
Float 1.30	3.9	3.1	3.9	3.1			1.9		
SINK 1.30 Float 1.35	35.6	6.2	39.5	5.9			21.7		
SINK 1.35 Float 1.40	26.9	11.5	66.4	8.2			53	88	1.4
SINK 1.40 Float 1.45	12.7	17.8	79.1	9.7			72.8	21.3	1.5
SINK 1.45 Float 1.50	2.9	21.5	82	10.1			80.6	4.9	1.6
SINK 1.50 Float 1.55	3.1	23.7	85.1	10.6			83.6	2.5	1.7
SINK 1.55 Float 1.60	0.1	25.5	85.2	10.6			85.2	1.5	1.8
SINK 1.60 Float 1.70	1.1	31.3	86.3	10.9			85.8		
SINK 1.70 Float 1.80	1.1	44.2	87.4	11.3			86.9		
SINK 1.80 Float 1.90	0.2	46.9	87.6	11.4			87.5		
SINK 1.90	12.4	86.5	100	20.7			93.8		

COMMENTS: THERE APPEARS TO BE A SIGNIFICANT AMOUNT OF HIGH ASH MATERIAL.

POSSIBILITIES:

1. INTRASEAM PARTING. - Sm SPLIT IN SAMPLE - CHECK WITH LOG.
2. EXTERNAL DILUTION FROM SAMPLE.

IF THE EXTERNAL DILUTION BEHAVES IN THIS MANNER - THEN THE COARSE DILUTION WILL REDUCE YIELDS ONLY + NOT CAUSE SEPARATION PROBLEMS.

DESCRIPTION: TELKWA SEAM 2 ANALYSED

DATE: OCT/83

SIZE RANGE: 25 x 9.5 mm. DILUTION EXCLUDED.

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	WT %	ASH %			
FLOAT 1.30	3.6	3.3	3.6	3.3			1.8		
SINK 1.30 FLOAT 1.35	25.5	5.5	29.1	5.2			16.4		
SINK 1.35 FLOAT 1.40	27.3	9.0	56.4	7.1			42.8	86.1	1.4
SINK 1.40 FLOAT 1.45	9.8	16.3	66.2	8.4			61.3	20.2	1.5
SINK 1.45 FLOAT 1.50	1.6	22.4	67.8	8.8			67	6.6	1.6
SINK 1.50 FLOAT 1.55	2.4	25.4	70.2	9.3			69	2.3	1.7
SINK 1.55 FLOAT 1.60	1.3	29.6	71.5	9.7			70.9	1.5	1.8
SINK 1.60 FLOAT 1.70	1.2	35.7	72.7	10.1			72.1		
SINK 1.70 FLOAT 1.80	.5	42.9	73.2	10.3			73		
SINK 1.80 FLOAT 1.90	.6	44	73.8	10.6			73.5		
SINK 1.90	26.2	86.1	100	30.4			86.9		

COMMENTS :

DESCRIPTION: TELKWA SEAM 2 ATTRITED

DATE: OCT/83

SIZE RANGE: 9.5x2mm

DILUTION EXCLUDED

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	WT %	ASH %			
Float 1.30	14.5	2.6	14.5	2.6			7.3		
SINK 1.30 Float 1.35	27.4	5.5	41.9	4.5			28.2		
SINK 1.35 Float 1.40	20.2	8.8	62.1	5.9			52	73.3	1.4
SINK 1.40 Float 1.45	8.7	14.1	70.8	6.9			66.5	18.3	1.5
SINK 1.45 Float 1.50	2.3	20.1	73.1	7.3			72	6.1	1.6
SINK 1.50 Float 1.55	2.2	24.1	75.3	7.8			74.2	2.5	1.7
SINK 1.55 Float 1.60	1.4	28.9	76.7	8.2			76	1.5	1.8
SINK 1.60 Float 1.70	1.3	34.5	78	8.6			77.4		
SINK 1.70 Float 1.80	.7	41.4	78.7	8.9			78.4		
SINK 1.80 Float 1.90	.5	44.6	79.2	9.2			79		
SINK 1.90	20.8	86.3	100	25.2			89.6		

COMMENTS:

DESCRIPTION: TELKWA SEAM 2 ATTRITED

DATE: OCT/83

SIZE RANGE: 2x1mm DILUTION EXCLUDED

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	WT%	ASH %			
FLOAT 1.30	26.4	2.1	26.4	2.1			13.2		
SINK 1.30 FLOAT 1.35	26.2	5.7	52.6	3.9			39.5		
SINK 1.35 FLOAT 1.40	13.0	7.7	65.6	4.7			59.1	61.1	1.4
SINK 1.40 FLOAT 1.45	11.0	12.5	76.6	5.8			71.1	18.6	1.5
SINK 1.45 FLOAT 1.50	1.7	19	78.3	6.1			77.5	5.2	1.6
SINK 1.50 FLOAT 1.55	2.0	23.2	80.3	6.5			79.3	2.4	1.7
SINK 1.55 FLOAT 1.60	1.1	28.5	81.4	6.8			80.9	1.5	1.8
SINK 1.60 FLOAT 1.70	1.3	34.7	82.7	7.2			82.1		
SINK 1.70 FLOAT 1.80	.7	42.2	83.4	7.5			83.1		
SINK 1.80 FLOAT 1.90	.6	47.5	84	7.8			83.7		
SINK 1.90	16.0	85.8	100	20.3			92		

COMMENTS :

DESCRIPTION: TELKWA SEAM 2 ATTRITED

DATE: OCT/83

SIZE RANGE: 1 x .6 mm DILUTION EXCLUDED

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	WT %	ASH %			
FLOAT 1.30	33	2.0	33	2.0			16.5		
SINK 1.30 FLOAT 1.35	23.2	5.5	56.2	3.4			41.6		
SINK 1.35 FLOAT 1.40	6.0	8.2	62.2	3.9			59.2	52.3	1.4
SINK 1.40 FLOAT 1.45	11.2	9.4	73.4	4.7			67.8	23.7	1.5
SINK 1.45 FLOAT 1.50	4.8	13.5	78.2	5.3			75.8	7.1	1.6
SINK 1.50 FLOAT 1.55	2.8	19	81	5.8			79.6	2.8	1.7
SINK 1.55 FLOAT 1.60	1.6	24.8	82.6	6.1			81.8	1.3	1.8
SINK 1.60 FLOAT 1.70	1.7	31.4	84.3	6.6			83.5		
SINK 1.70 FLOAT 1.80	.7	39.8	85	6.9			84.7		
SINK 1.80 FLOAT 1.90	.4	51.6	85.4	7.1			85.2		
SINK 1.90	14.6	84.1	100	18.4			92.7		

COMMENTS:

DESCRIPTION: TELKWA SEAM 2 ATTRITED

DATE: OCT/83

SIZE RANGE: .6 x .3mm DILUTION EXCLUDED

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT%	ASH %	WT%	ASH %	WT%	ASH %			
FLOAT 1.30	36.9	1.9	36.9	1.9			18.5		
SINK 1.30 FLOAT 1.35	17.9	4.8	54.8	2.9			45.9		
SINK 1.35 FLOAT 1.40	13.1	7.6	67.9	3.8			61.4	46.1	1.4
SINK 1.40 FLOAT 1.45	1.7	9.8	69.6	3.9			68.8	16.7	1.5
SINK 1.45 FLOAT 1.50	7.1	11.6	76.7	4.6			73.2	8.5	1.6
SINK 1.50 FLOAT 1.55	3.8	17.4	80.5	5.2			78.6	2.9	1.7
SINK 1.55 FLOAT 1.60	1.8	23.2	82.3	5.6			81.4	1.5	1.8
SINK 1.60 FLOAT 1.70	1.7	30.5	84	6.1			83.2		
SINK 1.70 FLOAT 1.80	.8	39.8	84.8	6.4			84.4		
SINK 1.80 FLOAT 1.90	.5	48	85.3	6.7			85.1		
SINK 1.90	14.7	82.7	100	17.9			92.7		

COMMENTS :

DESCRIPTION: TELKWA SEAM 2 ATTRITED

DATE: OCT/83

SIZE RANGE: 3 x .15 mm DILUTION EXCLUDED

SPECIFIC GRAVITY	INCREMENTAL		CUM. FLOATS		CUM. SINKS		AVERAGE COAL YIELD	QUANTITY WITHIN ± 0.1 SG	SG
	WT %	ASH %	WT %	ASH %	WT %	ASH %			
FLOAT 1.30	33.4	1.9	33.4	1.9			16.7		
SINK 1.30 FLOAT 1.35	21.4	4.5	54.8	2.9			44.1		
SINK 1.35 FLOAT 1.40	12.9	7.5	67.7	3.8			61.3	52.8	1.4
SINK 1.40 FLOAT 1.45	7.4	10.4	75.1	4.4			71.4	17.1	1.5
SINK 1.45 FLOAT 1.50	3.7	16.7	78.8	5.0			77	5.4	1.6
SINK 1.50 FLOAT 1.55	2.4	18.5	81.2	5.4			80	2.6	1.7
SINK 1.55 FLOAT 1.60	1.2	24.3	82.4	5.7			81.8	2.1	1.8
SINK 1.60 FLOAT 1.70	1	29.6	83.4	6.0			82.9		
SINK 1.70 FLOAT 1.80	1.2	37.9	84.6	6.4			84		
SINK 1.80 FLOAT 1.90	.6	48.2	85.2	6.7			84.9		
SINK 1.90	14.8	82.2	100	17.9			92.6		

COMMENTS :