QUINTETTE COAL LIMITED

1987 EXPLORATION REPORT

TRANSFER, GRIZZLY AND PERRY CREEK AREAS

FEBRUARY, 1988

Prepared by Technical Services Department Quintette Coal Limited

739

TITLE PAGE

1987 EXPLORATION REPORT

TRANSFER, GRIZZLY AND PERRY CREEK AREAS

COAL LICENCES: 3340, 3335, 3341, 3661, 3662,

3660, 7849; 7848, 7847, 7846, 7845, 3339; 3596, 3600, 4534.

QUINTETTE COAL LIMITED - Owner/Operator

Submitted: February 29, 1988

for: F.A.M.E. (Financial Assistance for Mineral Exploration)

PROGRAM - REF # 10963-M19

Latitude - 550 00' N Longitude - 1210 10' W Location:

NTS Map Sheet 93-P-3

93-I-14

Peace River Land District

Work conducted between May 5, 1987 and January 16, 1988

Report prepared by: Technical Services Department

Quintette Coal Limited

PREFACE

This report documents exploration and development work completed to the end of 1987 on the areas known as Transfer and Grizzly, and Perry Creek, on Quintette Coal Limited's Coal Licences in northeast British Columbia. This report is submitted in support of the Financial Assistance for Mineral Exploration (F.A.M.E.) Grant #10963-M19.

Exploration work has been done on Quintette's licences since 1971. The majority of work in the Transfer and Grizzly Areas was done in 1987. All work has been done under the supervision of Denison Mines Limited, Coal Division, and Quintette Coal Limited. The data presented in the report is from rotary/percussion drilling, core drilling, geologic mapping, and adits. The 1987 geologic data is recorded on geologic maps which locate the mapping, drill holes and adits. Descriptive logs, geophysical logs and analytical data are presented to supplement the geology plans.

The report presents regional and detailed geologic descriptions of the resource areas.

This report references all previous geologic reports on the Quintette Property.

Previous nomenclature for the areas discussed in this Report:

Transfer Area - Johnson Area, Hermann Area Grizzly Area - Hermann South, Dupont Licence Area Perry Creek Area - Wolverine Area, Wolverine River North

STATEMENT OF QUALIFICATIONS

I, David G. S. Johnson, graduated from Mount Allison University, Sackville, New Brunswick, with a Bachelor of Science Degree in Geology in May, 1970. I have worked in Mineral Exploration for six years, managing field exploration programs and writing reports and recommendations on those programs. I have worked in coal exploration and mine development for the last ten years in northeast British Columbia. I have conducted field exploration, geologic mapping, core logging, trenching; supervised core drilling, rotary drilling, adit driveage, and associated field work; managed exploration crews, contractors, and reclamation; participated in mine development, coal quality control, reserve evaluation; have prepared several structural and stratigraphic interpretations of coal reserve areas in northeast British Columbia, including the Mesa Extension Reserve Area and the Transfer Area.

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Wolverine Area - Report on Exploration Work North
of the Wolverine River, January 1973
1974 Wolverine Exploration Report, December 1974
1984 Quintette Geological Report, April 1985
Transfer Area Geological Report, March 1987
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Note: The two Addenda are supplied to the Ministry of Energy, Mines and Petroleum Resources, Victoria, only (2 copies of each).

Other copies and originals are on file at the Administration Building, Quintette Coal Limited, Tumbler Ridge.

1.0 INTRODUCTION

The Quintette property is situated in northeast British Columbia in the Peace River Land District in the inner foothills of the northern Rocky Mountains. Quintette Coal Limited (QCL) has a contract to produce five million tonnes of clean metallurgical coal per year. All coal production is from the Lower Cretaceous Gates Formation.

Work on the QCL property was initiated in 1971 and has proceeded almost continually through mine startup in 1982 to the present. Exploration of the Transfer Area reserve began with regional scale and geologic mapping. Initial drilling was performed in 1976 in the Transfer Area, in 1984 in the Grizzly Area, and in 1971 in the Perry Creek Area. Drilling and mapping have continued as the need to evaluate the reserve potential has increased.

Extensive sampling and testing programs have confirmed that QCL coal is a good quality medium volatile coking coal. It is a strong coking coal, and is capable of replacing most of the world's best medium and low volatile coking coals in blends.

Potential mineable reserves on the QCL property are estimated at 2.8 billion tonnes of coal in-place to a maximum depth below surface of 500 m. Preliminary estimates indicate a total resource of 27.9 million tonnes of product coal in the Transfer and Grizzly areas.

The purpose for exploration in the Transfer, Grizzly and Perry Creek Areas is to develop mineable open pit reserves which may prove more economically attractive than certain portions of QCL's current long term mining plan. Drilling has been completed in all three areas of these areas in 1987.

1.1 LOCATION AND ACCESS

The QCL property is located in the Rocky Mountain Foothills belt of northeastern British Columbia (see Figures 1.1 and 1.2). The coal bearing trend of this region is commonly referred to as the Peace River Coal Block.

The locations of the Transfer, Grizzly and Perry Creek Areas relative to the property's primary infrastructure are illustrated in Figure 1.3. The focus of recent exploration activity (1987) and this report is on the two distinct geological structures which, in order of resource size, are Transfer and Grizzly. A minor amount of exploration (5 rotary drill holes) was carried out in the Perry Creek Area.

Air distances to communities surrounding the property are as follows:

City	Population*	Distance
Prince George	67,721	160 km southwest
Dawson Creek	10,544	106 km northeast
Chetwynd	2,774	98 km north
Tumbler Ridge	4,385	20 km east
	*1986 Census	

The property is accessible by three routes: the Boundary Road (Heritage Highway) from Tupper, British Columbia; the Fellers Heights Road (Heritage Highway) from Dawson Creek/Fellers Heights; and Highway 29 from Chetwynd to Tumbler Ridge. The distances for the routes are as follows:

Boundary Road - Dawson Creek to Tumbler Ridge	210 km	
Fellers Heights Road - Dawson Creek to Tumbler Ridge	127 km	
Chetwynd to Tumbler Ridge		
Tumbler Ridge to plantsite 1		

Access within the property is gained by several existing roads developed for the Mine. The 1986 and 1987 Exploration Programs established 4-wheel drive access routes from the existing roads into the exploration areas. The location of these routes is shown on the geology plans in Appendix 1.2 and on the Exploration Location Maps in Appendix 1.1.

The current road distance from the Preparation Plant and Mine Service Complex to the three target areas are listed as follows:

Exploration Areas Current Road Access Distances

From	l To l	Distance (km)
Transfer	Preparation Plant	22
	Mine Service Complex	13
Grizzly	Preparation Plant	7
Perry Creek	Preparation Plant	28
	Mine Service Complex	20

1.2 PHYSIOGRAPHY

The Transfer and Grizzly Areas range from sub alpine to well below tree line in the Murray River Valley. Stands of spruce and pine with cottonwood and poplar are predominant. The Perry Creek Area is also below tree line in the Wolverine River Valley and has been partially logged. The range in elevation for each area is as follows:

Maximum and Minimum Elevations Above Sea Level

¦Area	1	Maximum Elevation (m)	Minimum Elevation (m) {
Transfer	1	1650	780
Grizzly	1	1150	780 }
Perry Creek	j i	1100	925

1.3 PROPERTY DESCRIPTION

The QCL property consists of 136 Coal Licences covering an area of 33,001 ha and Coal Lease #6 consisting of 11,667 ha. The original QCL licences were acquired by Denison Mines Limited (DML) in 1969 and 1970. The first coal exploration on the property was undertaken by DML in 1970. A significant exploration program was conducted each of the following years to 1977. Smaller programs were completed in 1979 and 1980. In 1981, large scale exploration was again undertaken.

For the purpose of developing the Coal Licences, QCL was incorporated under the laws of British Columbia, December 20, 1971.

DML was appointed by QCL to manage the QCL project through the feasability and construction/development stages of the project and to assume responsibility for the management of operations thereafter.

Current major partners in Quintette Coal Limited are DML, Charbonnages de France, the Japanese Steel Industry, Mitsui Mining, Tokyo Boeki, and Sumitomo Corporation.

The Grizzly and Transfer Areas are situated between the two sections of Coal Lease #6. The Transfer Area is approximately 3 km long and 700 m wide (average) while the Grizzly Area is 1.6 km in length and 500 m wide on average. Slopes vary from gentle (0° to 10°) to maximum natural slopes of 36° .

The Perry Creek Area is situated north of Mesa Pit on the North bank of the Wolverine River Valley. Its slopes are predominately gentle with local small cliffs due to thick conglomerates in the Middle Gates Formation.

1.3.1 Coal Licences

The location of coal licences covering the exploration areas is illustrated in Figure 1.4. QCL's coal licences are described in Appendix T.1.

The following table lists the exploration areas and the specific licences that cover each area.

. Area	[Coal Licences	Type of Work performed
Transfer	3340,3335,3341	Rotary and Core Drilling, Adits, Mapping
	3661,3662,3660,78	
Grizzly	7848,7847,7846,	Rotary and Core Drilling, Adits, Mapping
	17845,3339	1
Perry Cree	k 3596,3600,4534	Rotary Drilling

1.4 ECONOMIC ASSESSMENT

Exploration in the Transfer and Grizzly Areas has indicated the potential to develop mineable open pit reserves which may prove more economically attractive than other portions of QCL's long term mining plan.

In the Perry Creek Area, the favourable structure and thick coal may prove an attractive economic situation.

Maps showing the location of exploration activities are presented in Appendix 1.1.

1.4.1 Structure

Resources have been measured on anticline limbs in both the Transfer and Grizzly Areas based on data to the end of 1986. These structures are similar in nature to the Shikano Anticline currently being mined, with their limbs generally dipping from 35° to 65° with northwesterly plunges from 10° to 30° . The Transfer Area has a larger resource potential, mainly attributed to the near surface Middle Gates Formation along the axis of the Transfer Anticline.

In the Perry Creek Area, the Perry Creek Syncline has long been recognized as an open fold with a very shallow dipping west limb. It is in this structurally simple limb that near surface coal has been identified.

1.4.2 Coal Seam Thickness

In the Transfer and Grizzly Areas, seams F, G, J, K1 and K2, have been identified from drilling and are readily correlated to coal seams in the Shikano deposit. In both anticlines, thin or poorly developed intersections have been found in D and E coal seams resulting in their exclusion from current resource evaluations. Seams F and G are well developed, forming single, thick mining sections in both structures. The interseam partings between J, K1 and K2 are variable in thickness such that this zone may be mined either singly (including all partings) or as two separate mining

sections. Seam K2 may not be recoverable in the Grizzly area due to its thinness and the thick interseam parting between K1 and K2.

Thickness range and average values are compared to Shikano deposits as follows:

Average Mining Section Thickness*

Seam	Grizzly	Transfer	Shikano
D	_	-	2.81
Е	-	-	2.12
F	3.52	4.05	4.05
G	3.19	3.70	3 27
J	-	-	4.65
J+K1	6.11	7.13	-
K1	-		0.87
K1+K2	_	1.12	-

^{*}from pre-1987 data. These are averages of the values used for current resource tonnages.

In Perry Creek Area, J is the main economic seam. From 1987 drilling this seam has a thickness of at least 5.5 metres. This seam and its thickness is correlateable to J1 seam in Mesa Pit. G seam was also intersected although its thickness is only 0.9 metres. J2 seam, which exceeds 2 metres in thickness, is separated from J1 by a parting of 1.6 metres.

1.4.3 Coal Quality

Transfer and Grizzly coal is self coking and medium to low volatile bituminous in rank. The quality data is based on detailed analysis of coal core and bulk adit samples.

Coal analysis indicates that the coal is typical of other QCL coals. The following tables summarize the mean values of the raw and clean coal analysis by seam:

Page 1-7 of this report contains coal quality data, and remains confidential under the terms of the *Coal Act Regulation*, Section 2(1). It has been removed from the public version.

http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/10_251_2004

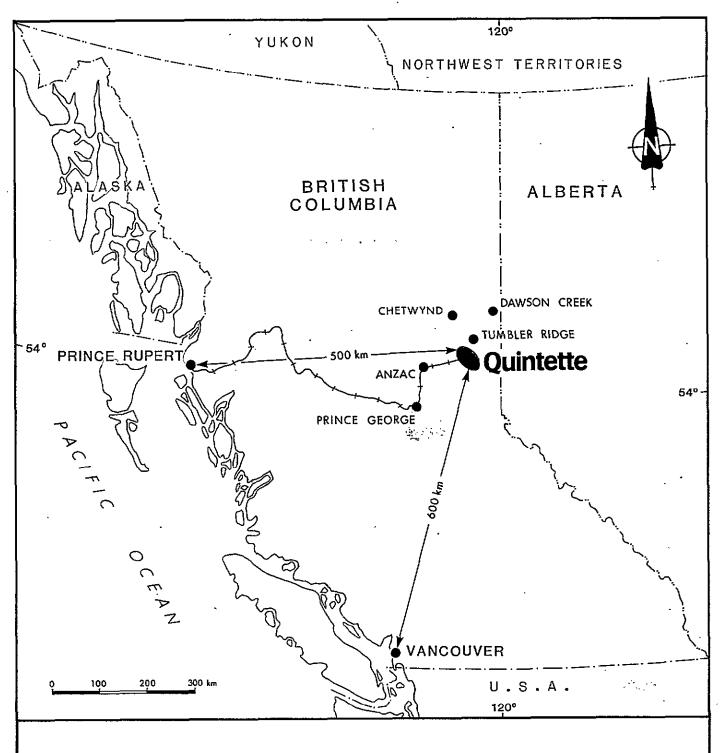
1.4.4 Resources

In the Transfer and Grizzly Areas, preliminary estimates based on the 1986 exploration data indicate a total resource of 27.9 million tonnes of product coal. These resources are summarized as follows:

	Grizzly	Transfer	Combined Pits
Product Met (M tonnes)	5.992	20.766	26.758
Product Thermal (M tonnes)	0.337	0.772	1.109

1987 Exploration has confirmed coal thicknesses and highlighted some structural changes from the 1986 interpretation, however, the total resource is expected to be similar to the 1986 evaluation. A new resource calculation will be completed for the Transfer area based on the 1987 interpretation.

In the Perry Creek Syncline, initial indications are of a recoverable resource (open pit mining) varying from 1.5 million tonnes to 15 million tonnes of product coal. The resource is highly dependent on a favourable shallow dipping structure and good seam development which will be defined with future exploration.

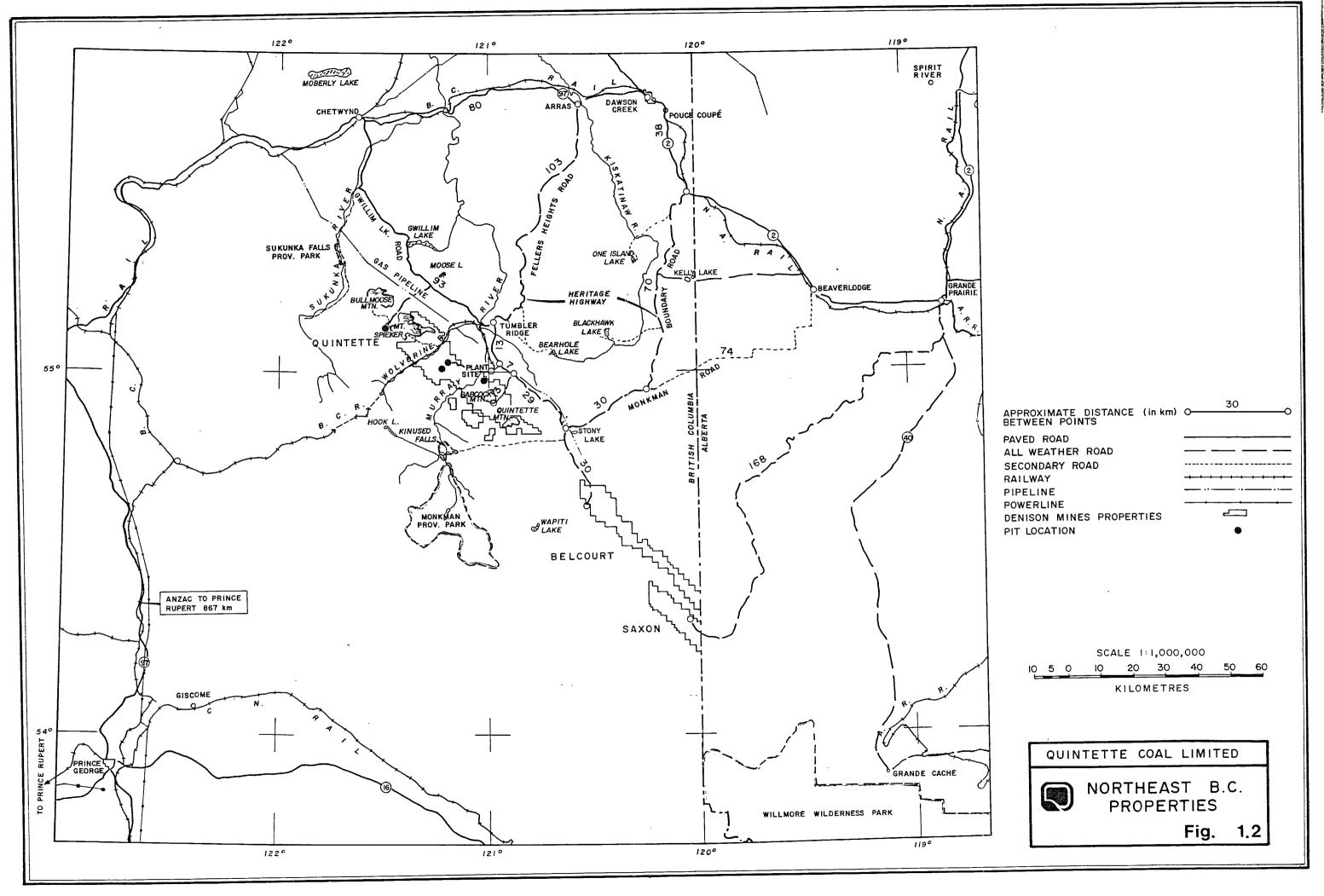


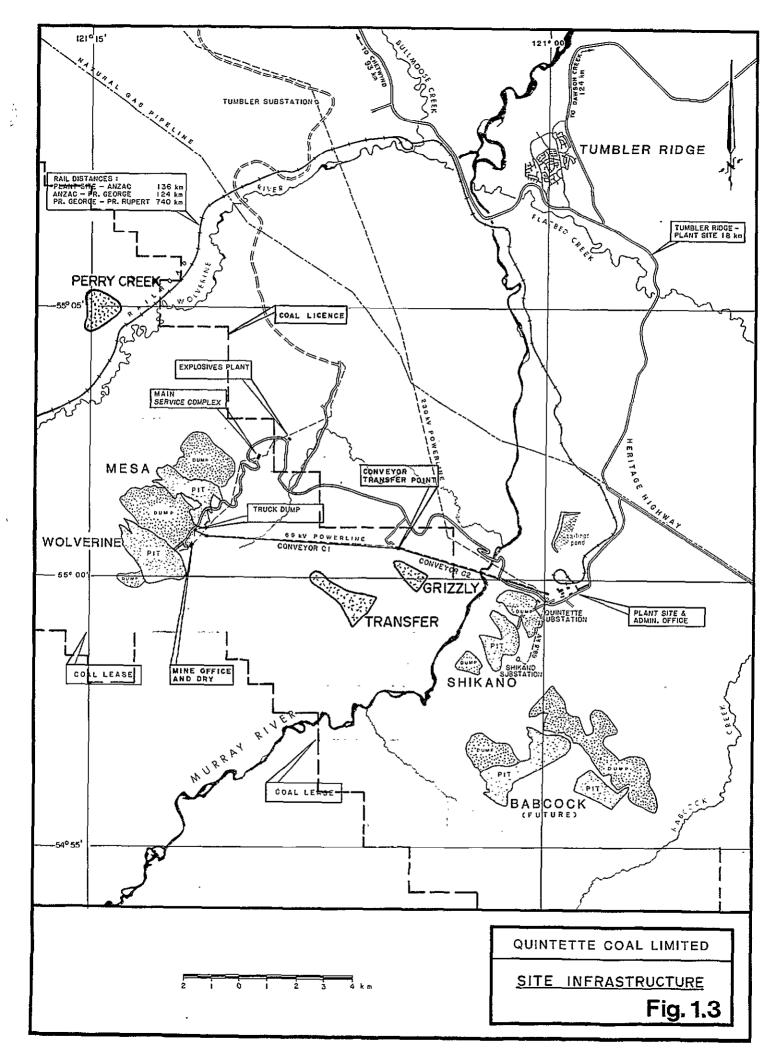


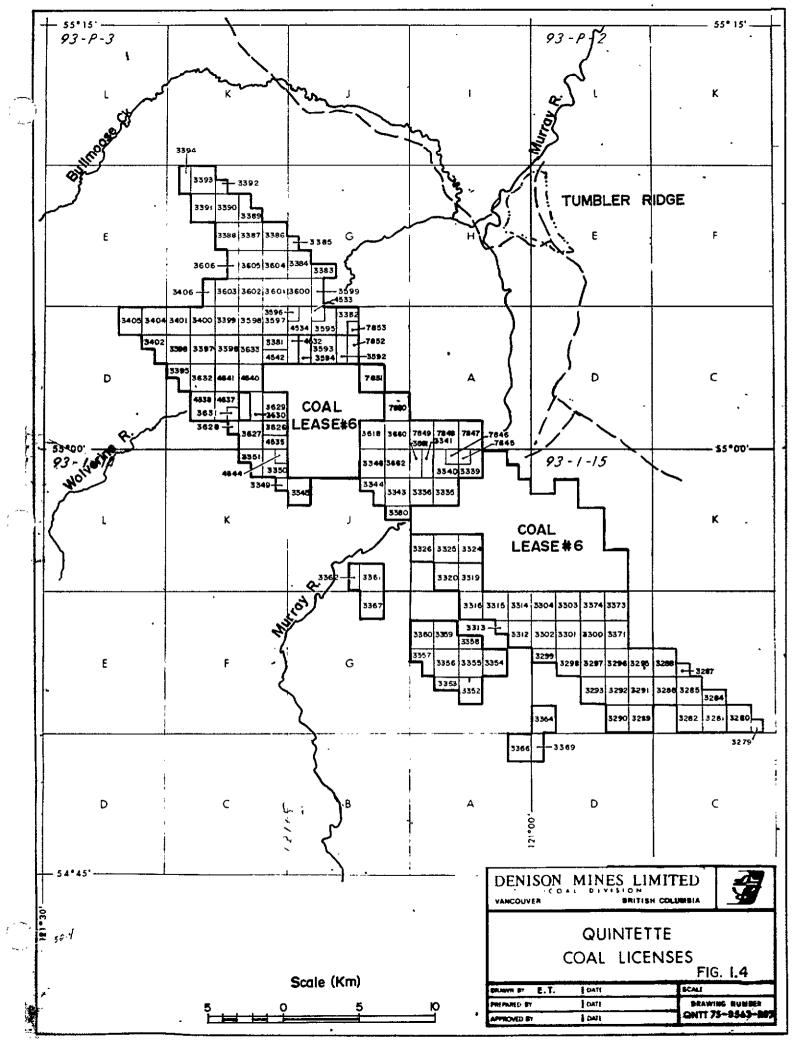
Quintette Coal Limited

GENERAL LOCATION

Fig. 1.1







2.0 EXPLORATION SUMMARY

A summary of exploration activity undertaken in the Transfer and Grizzly Areas and Perry Creek Area to the end of the 1987 field season is presented in Table 2.1.

2.1 EXPLORATION PROGRAMS PRIOR TO 1987

Regional scale geologic mapping (1:5000) aided by aerial photograph interpretation was the only form of geological assessment undertaken in the Transfer and Grizzly Areas prior to 1976 when the first three helicopter supported diamond drill holes were completed (OJD7641, 7642, 7643). The next phase of work involved the completion of one rotary drill hole (QJR8001) in 1980 to test Gates Member coal thickness in the remnant syncline structure referred to as the Hermann Syncline. This structure was accessed in 1980 when Nabors Drilling Limited completed a gas well (B.P. et al Murray d-83-J-93-I-14) for British Petroleum through the structure, encountering a potentially productive gas bearing horizon well below the coal measures. During 1982, six rotary drill holes (QHR8201-8206) were completed on the forenoted well site and access road to test coal thicknesses of both the Hermann Syncline and the Hermann North Area, where a steeply dipping Gates section extends southeasterly from the Marmot subpit in the Mesa Mine. Results of this program led to the completion of 5 rotary drill holes (QHR8301-8305) in 1983 plus access road construction and detailed geological mapping (1:2500 scale) in Hermann North. In 1984, the drilling of 12 additional rotary holes and trenching were undertaken in the Hermann Syncline, plus 6 rotary holes and 3 diamond holes in Hermann North. This season also saw the completion of 6 rotary holes in the Gething Area and the first rotary (6) and diamond (1) holes in the Hermann South Area, now referred to as the Grizzly Area. limited mapping and the first two diamond drill holes were placed in the Transfer Anticline.

The 1986 Exploration program allowed for the completion of detailed geological mapping of naturally exposed outcrops as well as those exposed by access routes and trench construction. No rotary drilling was performed in the Transfer or Grizzly Areas, but 7 diamond drill holes, 2 in the Grizzly Area

and 5 in the Transfer Area were completed. This supplemented the above-noted mapping such that a preliminary determination of resources could be made within approximate pit limits (unscheduled mine area).

In the Perry Creek Area, the coal measures were drilled in 1971 with the completion of six core holes on the northeastern slopes of Fortress Mountain. These holes were drilled to test for underground potential. Hole #QWD7119, closest to the current area of interest, intersected a thick J seam section.

2.2 1987 OBJECTIVES AND SCOPE

Primary objectives of the exploration program were to:

- 1. Undertake in-fill drilling to confirm seam continuity as follow-up to 1986 exploration.
- 2. Confirm the extent of overburden in the southeastern portion (Murray River Valley) of the Grizzly and Transfer Areas and at the same time to confirm the continuity of the coal between Transfer and Grizzly.
- 3. Obtain bulk samples from test adits driven in the mineable coal seams to further assess washability and to undertake pilot scale carbonization tests in Transfer and Grizzly Areas.
- 4. Determine the presence of a thick J seam in the Perry Creek Syncline.

In order to fulfill these objectives, 7 diamond and 46 rotary drill holes were completed in the Transfer Area while 5 diamond and 21 rotary drill holes were located in the Grizzly Area. Three adits were driven into the mineable coal seams in each area in order to obtain the necessary bulk samples.

In the Perry Creek Area, five rotary holes were completed, with four holes intersecting a thick J seam sequence.

2.3 PROJECT MANAGEMENT AND PRIMARY CONTRACTORS

This report and the exploration work was completed by QCL geology staff, consultants and contractors.

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Piteau and Associates

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- Core drilling
- Rotary drilling
- Geophysical Logging
- Adit Construction and Sampling
- Surveying
- Topographic mapping
- Birtley Coal and Minerals Testing Bulk sample washing and analysis
 - Geotechnical Studies

2.4 STANDARDS AND PROCEDURES

2.4.1 Geophysical Logging

Rotary and diamond drill holes have been logged by down hole geophysical methods since the commencement of drilling in 1971 (Perry Creek) and 1976 (Transfer). However, in some instances, the caving of drill holes either prevented the completion of geophysical logs or required the holes to be logged through the drill stem.

The types of geophysical logs completed include:

- 1. Gamma
- 2. Neutron
- Density
- 4. Caliper
- 5. Deviation
- 6. Resistivity

Geophysical logging was conducted by BPB Instruments Ltd and by QCL during 1987. Mining section thicknesses are determined from the core holes using detailed geophysical logs. Seam depths are determined from the 1:20 scale density geophysical log. The core descriptive log is then adjusted to these depths and missing core locations identified. The coal seam thickness is determined by adjusting the apparent seam thickness (distance between top and bottom as picked on the geophysical log) by the cosine of the measured bedding angle in the core.

Rotary drill holes are used for seam and rock thicknesses in the sense that the tops and bottoms of coal seams and correlation points are marked on the profile of the drill holes on the sections. The interpretation then uses these intersections when the top (and at times, the bottom) structure contour of each seam is drawn.

Copies of all geophysical logs are available in the Administration Building of Quintette Coal Limited and copies of all logs are presented as Addendum I to this report.

2.4.2 Rotary Drilling

The contract rotary drilling companies have drilled both vertical holes and angle holes (to -45°) with both downhole hammer and conventional rotary bits, using reverse circulation equipment. During 1987, no sampling of the rotary cuttings was done. The drill rig used for all 1987 drilling was Western Hydro Air's Schramm model 685 (1980). The drillers daily reports are kept on file at the Administration Building, Quintette Coal Limited. These reports record coal intersections, water levels and estimated flow rates. The locations of all rotary drill holes are on the geology plans in Appendix 1.2.

Appendix T.2.1 contains summary sheets of all rotary holes which identify seam intersections. Table 2.2 lists all rotary holes with their location, elevation, and depth.

2.4.3 Diamond Drilling

During 1987, Tonto Drilling Limited drilled vertical and angle holes of H.Q. core size (64 mm diameter) with conventional wireline recovery equipment using a Longyear 44 drill rig. Each drill hole was geophysically logged followed by detailed visual core descriptions and complete sampling of all mineable coal sections. Approximately 5 kilograms of coal sample was taken from each metre of mineable section and sent to Commercial Testing and Engineering for washability and related analyses as described in the following section.

The location of diamond drill holes in the Transfer and Grizzly Areas are shown on the geology plans in Appendix 1.1 and a summary sheet of each 1987 core hole is found in Appendix T.2.2. The detailed written descriptions of all cored drill holes are available in the QCL Administration building. Copies of each descriptive log are presented as Addendum II (Volumes 1 and 2) to this report. Table 2.3 lists all diamond holes with their location, elevation and depth.

2.4.4 Drill Core Analysis

Drill core samples of mining sections where 80% or better core recovery has been achieved, normally provide the primary data points for the assessment of in-place ash content, washability yield predictions, and other physical, rheological, and chemical properties. Normal procedures involve the segregation of a selected mining section into various sample components based on coal and rock partings. These samples are then combined into a single sample or composite, representing the actual section to be mined.

All 1987 core analysis was conducted by Commercial Testing and Engineering, Vancouver, B.C. The analytical procedure is presented in Figure 2.1. The analytical test results from the drill core sampling are presented in Appendix 2.1.1. Table 2.4 identifies all 1987 component samples, the sample intervals and the composite samples.

2.4.5 Geologic Mapping

Geologic mapping in the Transfer and Grizzly Areas was conducted at 1:2500 scale by Quintette personnel and Mitsui consultants.

The majority of mapping was conducted along exploration roads constructed during 1987. These roads provided excellent rock and coal exposures. Control was based on survey points spaced at approximately 100 m intervals along the roads. Survey control was by Stables, Tryon and Associates, Dawson Creek, British Columbia. These survey control maps are presented in Appendix 1.3. All of the geologic mapping was plotted on the Geology plans presented in Appendix 1.2.

Reconnaissance mapping off the exploration roads was controlled by previously established survey points, airphoto control points, geologic control points and drill holes. Accuracy was maintained by closing the traverses to one of the known points.

Field data was recorded on map cards at 1:2500 scale. The mapping was done by a modified plane table method using a chain and compass. Lithologies, structural and sedimentological features, and bed orientation were recorded on the map cards.

No geologic mapping was carried out in the Perry Creek area during 1987. The geology plan presented in Appendix 1.2.3 is based on regional mapping in the early 1970's.

2.4.6 Topographic Survey

During 1987, the Transfer/Grizzly Area was flown and 1:2500 scale topographic maps were prepared. Surveying of airphoto targets was by Stables, Tryon and Associates, Dawson Creek, British Columbia. The location of these targets are found on the survey maps in Appendix 1.3. Survey control for the topographic mapping is described as follows:

"Photo targets numbered 1 to 13, and A to E were surveyed in the summer of 1987 by Stables, Tryon and Associates under the personal supervision of Tom Tryon, British Columbia Land Surveyor. Distances were measured by a "Model 14A" Geodometer and angles were measured using a "Wild T16" Theodolite. Co-ordinates and Elevations of targets 9, 11, 12 and "E" were determined from those of Triangulation Station "Airy". All others were surveyed from stations along conveyor and power lines Right-of-Way, from values tabulated by McElhanney and Associates."

Topographic mapping was done by Western Photogrammetry, Edmonton, Alberta. The maps were prepared from three east-west flight lines. Aerial Triangulation and preparation was undertaken on WILD PUG III and BC1 analytical system. The numerical adjustment was done using the PATM-43 program. The data was stream digitized (data tapes are stored at Quintette Coal Limited, Administration Building) on WILD BC1 using the T Map software system for graphics edit. The final copy topographic maps are presented in Appendix 1.4.

The topography on the geology maps presented in Appendix 1.2 is from 1:5000 maps sheets enlarged to 1:2500 scale. Survey control and cartographic description is discussed in the Transfer Area Geological Report, March 1987.

2.4.7 Adits

In 1987, adits were driven into the mineable coal seams in both the Transfer and Grizzly Areas. The following table summarizes the adit driveage:

1987 Transfer/Grizzly Adits

Area	Adit#	Length (m)	Seams Sampled
Grizzly	 0HA87001	34.3	; } J, K1
•	QHA87002	39.3	l G
	QHA87003	38	F
Transfer	QHA87004	45	¦ ¦ F
	1 QHA87005	44	J, K1, K2
	QHA87006	49.5	¦ G

Total driveage:

251.1

Target Tunnelling Limited, Strathmore, Alberta constructed and sampled all adits. Adits were constructed by drilling and blasting along the coal seam. Coal waste and coal samples were removed by an air tugger or wheelbarrow depending on conditions. The adits were ventilated by a forcing fan. Adit drawings are presented in Appendix T.3. Adit locations are plotted on the Geology Maps in Appendix 1.2 and on the Exploration Location Map in Appendix 1.1.1.

2.4.8 Adit Sample Analysis

Bulk samples from the major seams (F, G, J, K) were obtained in both the Transfer and Grizzly Areas. These samples were shipped to Birtley Coal and Minerals Testing, Calgary, Alberta, for raw analysis, pilot scale washing and clean coal analysis. The results of this testing program are presented in Appendix 2.1.2.

The Transfer J seam bulk sample was rewashed using different cut points that more closely simulated actual Quintette Preparation Plant conditions. This resulted in a clean coal product with a lower ash level.

2.4.9 Geotechnical Studies

During 1987, Piteau and Associates were contracted to carry out a geotechnical and hydrogeological assessment of the Transfer and Grizzly Areas. This report is presented as Appendix 2.2.

2.4.10 Reclamation

Reclamation of the 1987 and some 1986 disturbances was conducted by Loiselle Contractors Limited, Tumbler Ridge, British Columbia.

The program included bucking of all slash to ensure rapid decomposition and to inhibit fires. Spruce slash was burned although some slash will not be totally disposed of until the 1988 field season when it will be drier. All slash requiring burning has been piled.

All roads have been crossditched as required for erosion control as well as seeded. Some main access roads were not seeded since they will be used in the 1988 exploration season. Recontouring of the exploration road beyond QHD87008 was completed since topography is very steep in this area and it is close to a natural drainage.

Adit sites were totally reclaimed by burying the waste coal and resloping these piles. At QHA8704, a small drainage was reopened. All sites were seeded.

The equipment used for reclamation was a D6 or D7 bulldozer, a small backhoe, chainsaws and a seeder/spreader. The fertilizer mix was 8-36-17 at 125 kg per hectare. The seed mix was creeping red fescue 55%, kentucky blue grass 25%, alfalfa 20% at 50 kg per hectare.

Table 2.1

1987 Exploration Summary

Area	Activity	-	Total length	Comments
Transfer	 Road Construction Geologic Mapping	i 1 1 1 1	14.7 km	All new access roads were mapped plus reconnaissance areas.
	Rotary Drilling	46	5169.1 m	OHR87021-87068 (excluding 87046 and 1050)
	Core Drilling Adits	8		•
_	Road Construction Geologic Mapping Rotary Drilling Core Drilling Adits	21	592.67 m	All new access roads were mapped. QHR87001-020 plus QHR87050 QHD87001-003 plus QHD87012 QHA87001,2,3. Seams sampled:F,G,J,K1.
	Road Construction Rotary Drilling	5	1.3 km 259.6 m	QPR87001-005

Totals:

Rotary holes	72	8503.6 m
Core holes	12	1844.05 m
Roads		22.7 km
Adits	6	251 m

<u>Table 2.2</u>

Page 1 of 2

1987 Rotary Drilling Summary

UTM

Hole #	Northing	Easting	<u>Elevation</u>	Depth
		V		-
QHR87001	624678.720	6096302.760	848.18	189.60
QHR87002	624465.260	6096356.150	879.90	156.30
QHR87003	624278+690	6096422.350	895.45	140.00
QHR87004	624117.600	6096486.650	931.67	121.80
QHR87005	623827.890	6096582.540	985.67	117.50
QHR87004	623311.920	6096741.680	1057.87	182.00
QHR87007	623136.870	6096526.690	1117.65	170.20
QHR87008	623196.400	6096594.040	1107.99	107.30
QHR87009	623293.440	6096471.160	1108.97	132.30
QHR87010	623296,430	6096347.630	1109.67	164.40
QHR87011	623132.370	6096681.670	1107.81	121.50
QHR87012	623063.540	6096590.370	1116.81	183.30
QHR87013	623477.310	6096728.480	1041.15	143.70
QHR87014	623194.300	6096773+650	1076.90	207.40
QHR87015	623456.490	6096508.620	1079.99	56.70
GHR87016	623627.550	6096078.360	1071.99	146.60
QHR87017	623801.660	6095936.650	1014.93	164.80
QHR87018	624093.480	6095705.400	978.03	123.00
QHR87019	624218.700	6095531.260	916.10	110.70
GHR87020	624879.720	6096256.360	797.81	244.00
QHR87021	620569.250	6096160.320	1572.82	168.80
QHR87022	620508.120	6096087.300	1580.60	144.60
GHR87023	620432.720	6095983.110	1601.62	171.00
QHR87024	620712.890	6096026.860	1564.25	128.50
QHR87025	620647.170	6095957.560	1585.04	110.00
QHR87026	620701.800	6095680.630	1573.08	140.00
QHR87027	620804.170	6095842.940	1549.64	80.00
QHR87028	620421.700	6096294.420	1542.16	172.00
QHR87029	620866.580	6095579.200	1545.46	110.00
QHR87030	621163.260	6095302.310	1489.50	86.80
QHR87031	621267,200	6095747.640	1425.42	50.00
QHR87032	621106.040	6095887.350	1451.87	92.70
QHR97033		6095148.030	1437.70	98.70
QHR87034		6095778.160	1319.00	108.00
QHR87035		6096125.300	1558.01	129.00
QHR87036	620351.140		1544.31	117.60
QHR87037	620771.320		1562.42	91.80
QHR87038	620942.670		1490.85	129.00
QHR87039	621016.010	6095418.960	1522.50	99.00
GHR87040	622166.770		1361.19	98.20
GHR87041	623801.940		891.53	187.80
QHR87042	623748.750		891.10	129.70
GHR87043	623622.990		902.11	116.40
QHR87044		6094992.350	880.04	135.70
QHR87045		6094837.800	838.09	99.00
QHR87047	623977.780		838.73	79.00
GHR87048	624037.450	6095005.910	836.82	111.30
QHR87049	623876.650	6094780.330	841.24	90.80

Table 2.2.

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1987 Rotary Drilling Summary

-	-	
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Hole #	Northing m	Easting M	Elevation M	Depth m	
GHR87050	624327.410	6095263.270	844.50	91.80	
QHR87051 QHR87052	622728.370 622093.220	6093986.570 6093829.310	857.50 951.88	147.70 127.90	
QHR87053	622065.950	6094070.220	1034.79	86.00	
QHR87054	622091.590	6094207,210	1049.43	99.00	
GHR87055	622506.620	6093811.200	890.45	55.60	
QHR87056	623134.020	6093869.500	857,51	91.30	
QHR87057	623303.900 623438.870	6094089,280	876.83 881.64	91.30 79.20	
QHR87058 QHR87059	621392.130	6095942.590	1368.63	190.60	
GHR87060	621503.170	6095749.250	1346.09	80.30	
QHR87061	620875.610	6095928.120	1527.81	99.20	
QHR87062	620103.840	6096057.410	1544.99	178.90	
QHR87063	620168.560	6096279.540	1508.25	109.90	
GHR87064 GHR87065	620222,270 619929,820	6096360.010	1499.61 1519.31	103.60 146.70	
QHR87066	620077.600	6096322.920	1505.69	85.20	
QHR87067	619995.340	6096417.410	1499.61	42.00	
QHR87068	620065.100	6096527.440	1484.15	79.30	
				========	
				8244.00 *****	
				<i>ጥ ጥ ጥ ጥ ጥ ጥ ጥ</i> ጥ	
QPR87001	612398.180	6105215.210	918.24	73.50	
QPR87002	612049.340	6104982.650	954.63	60.50	
GPR87003		6105131.430	945.01 930.10	44.40 37.90	
QPR87004	== 1:	6105276.760 6105449.840	923.61	43.30	
QPR87005	612422.970	0103441640	723+61		
				=======	
				259.60 *****	
•				ሉጹጹጹ ፟፟፟፟፟፟፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠፠	

Table 2.3

1987 Diamond Drilling Summary

	,	UTM		-	
<u>Hole #</u>		Northing M	Easting m	<u>Elevation</u>	Depth M

	QHD87001	623618.590	6096689.550	1021.15	160.79
	QHD87002	623250.510	6096678.450	1081.36	99.12
	QHD87003	623915.720	6095802.930	996.29	177.52
	QHD87004	620622.540	6095885,150	1589.74	151.10
	QHD87005	620230.280	6096045.680	1573.26	185.78
	QHD87006	620295.840	6096478.670	1486.07	202.44
	QHD87007	622018.430	6095442.390	1329.15	120.63
ı	QHD87008	621727.190	6094538.830	1167.00	138.62
	QHD87009	622957.500	6095088.700	1108.43	105.14
	QHD87010	623642.350	6094879.670	894.89	158.55
	QHD87011	623875.170	6095267.550	877.77	189.12
	QHD87012	624826.020	6096170.570	818.91	155.24

1844.05 *****

Table 2.4

Transfer/Grizzly

1987 Core Sampling Summary

Drill Hole	Component Sample #	Core Interval (m)	Seam Composite #
QHD87001	1000 1001 1002 1003 1004 1005 1006 1007 1008	67.94 - 68.91 69.15 - 73.15 73.15 - 73.61 118.04 - 118.46 118.46 - 118.82 118.82 - 119.88 119.88 - 120.79 120.79 - 122.16 141.76 - 147.69	F1
QHD87002	1009 1010 1011 1012 1014 1015 1016 1017 1018 1019 1020 1021 1022	17.14 - 17.71 17.71 - 18.00 18.00 - 20.55 20.55 - 20.87 61.85 - 62.44 62.44 - 63.57 63.57 - 63.77 63.77 - 64.57 82.25 - 87.45 87.45 - 87.89 87.89 - 88.21 88.21 - 89.83 92.68 - 93.48	F1 F2P F2 F3 G1 & G2P G2 G3P G3 J C6 K0P K0 K1 C7 K2 C8*
			*No composite analysis - Petrography onl
QHD87003	1147 1148 1149 1023 1024 1025 1013 1026 1027 1028 1029 1030 1031	24.17 - 24.80 24.80 - 25.24 25.24 - 25.98 82.64 - 83.17 83.17 - 83.53 83.53 - 87.22 87.22 - 87.60 109.89 - 110.69 110.69 - 111.33 111.33 - 112.09 129.08 - 133.22 133.22 - 133.94 133.94 - 134.40 134.40 - 135.41	D1 D2P D2 F1 F2P F2 F3 G2 G3P G3 J K0P K0 K1 C12

Transfer/Grizzly 1987 Core Sampling Summary

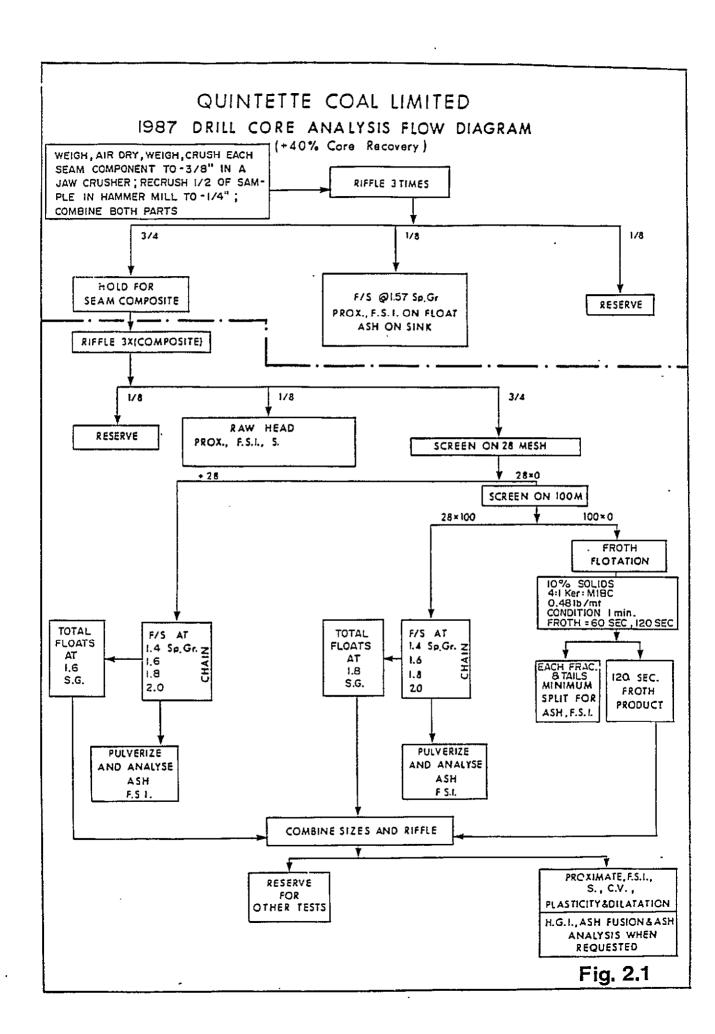
QHD87004	1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043	85.14 - 86.56 86.79 - 87.78 87.78 - 87.98 87.98 - 88.84 88.84 - 89.56 89.56 - 90.48 104.60 - 108.60 108.60 - 109.35 109.35 - 109.62 109.62 - 110.61 110.61 - 111.28 111.28 - 112.53	G1-A - G1 G2P G2 G3P G3 J C14 K0P K1 C15 K2P K2 C16
QHD87005	1141 1142 1143 1144 1145 1146 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054	15.47 - 18.63 100.96 - 101.96 101.96 - 102.25 102.25 - 102.50 103.64 - 104.45 104.45 - 105.02 123.48 - 124.09 124.09 - 124.55 124.55 - 127.44 157.47 - 158.67 158.67 - 158.75 158.75 - 159.61 159.61 - 160.18 160.18 - 161.33 175.50 - 180.40 183.85 - 184.96	B E2 E2 E2 E3 E3 lower F1 F2P F2 G1 G2P G2 G3P G3 J C19 K2 C20
QHD87006	1136 1137 1138 1139 1140 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065	15.43 - 16.58 83.08 - 84.30 105.93 - 106.46 106.46 - 106.89 106.89 - 108.25 135.77 - 136.23 136.23 - 136.94 136.94 - 140.41 161.71 - 163.02 164.65 - 166.02 186.83 - 192.19 192.19 - 192.70 192.70 - 193.26 193.26 - 194.26 195.39 - 196.41 196.41 - 197.17	B D E1 E2P E2 F1 F2P G1 G3 J C22 KOP K1P K1 K2 K2 K2 lower C23

Transfer Grizzly 1987 Core Sampling Summary

QHD87007	1066 1067 1068 1069 1070 1071 1072 1073 1074 1075	32.22 - 33.40 33.40 - 33.95 33.95 - 38.68 72.66 - 73.93 73.93 - 74.15 74.15 - 75.62 75.62 - 76.00 76.00 - 78.50 103.12 - 109.99 111.76 - 113.28 116.54 - 118.16	F1 F2P F2 G1 G2P G3P G3 J C26 K1 K2
QHD87008	No Samples	Taken	
QHD87009	1077 1078 1079 1080 1081 1082 1083 1084 1085	24.70 - 25.34 25.34 - 25.71 25.71 - 27.56 61.08 - 61.93 61.93 - 62.10 62.10 - 63.23 63.23 - 63.65 63.65 - 65.20 88.12 - 93.94	F1 F2P F2 G1 G2P G2 G3P G3 J C29
QHD87010	1133 1134 1135 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095	22.18 - 23.40 23.40 - 23.76 23.76 - 24.03 89.91 - 90.82 90.82 - 91.13 91.13 - 91.94 91.94 - 92.40 92.40 - 94.48 114.91 - 117.62 117.62 - 118.24 118.24 - 118.80 118.80 - 119.81 128.06 - 131.11	D1 (E3?) D2P D2 G1 - G2P - G2 C30 G3P - G3 - J C31 K0P {K1P - K1 C32 K2 C33

Transfer Grizzly 1987 Core Sampling Summary

QHD87011	1127 1128 1129 1130 1131 1132 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107	61.40 - 62.22 62.22 - 62.64 62.64 - 63.47 97.80 - 98.39 98.39 - 98.72 98.72 - 99.07 121.53 - 121.92 121.92 - 122.08 122.08 - 125.93 146.22 - 147.27 147.27 - 147.59 147.59 - 148.41 148.41 - 148.88 148.88 - 150.42 170.19 - 175.22 175.22 - 175.76 175.76 - 176.36 176.36 - 177.43	D1 D2P D2 E3 E3 E3 F1 F2P F2 G1 G2P G2 G3P G3 J C36 K0P K1P - K1 C37
QHD87012	1120 1121	24.66 - 26.41 26.41 - 26.74	D1 D2P
	1122	26.74 - 27.64	D2
	1123	46.80 - 47.18	E3
	1124	47.18 - 48.11	E3
	1125	48.11 - 48.49	E3
•	1126	48.49 - 48.85	E3
	1108	71.44 - 72.01	F1)
	1109	72.01 - 72.43	F2P C38
	1110	72.43 - 76.51	F2
	1111	118.83 - 119.16	G1-A
	1112	119.16 - 119.27	G2P \C39
	1113 1114	119.27 - 120.73 120.73 - 121.96	G2
	1114	120.73 - 121.96	G3P - G3 C40
	1116	141.94 - 148.00	J C41
	1117	148.00 -(148.64)	ב כיפוא
	1118	(148.64) - 149.30	K0
	1119	149.30 - 150.90	K1 C42



3.0 GEOLOGY

3.1 REGIONAL STRATIGRAPHY

The stratigraphic succession exposed on the Quintette property ranges from Upper Jurassic to Lower Cretaceous in age. It consists of an interfingering of shales and sands both marine and continental in origin. Most of the coalbearing strata is derived from deltaic and near-shore environments. The table of formations for Quintette is outlined in Figure 3.1 and indicates general formation thickness ranges and coal zones as encountered by past exploration. The coal seam of economic thickness and quality are found in the Gates and Gething Formations. The regional distribution of these formations is illustrated on the Regional Geology Map in Appendix 1.2.4. Further descriptions of the formations encountered at QCL can be found in previous QCL Geological Reports.

3.2 LOCAL STRATIGRAPHY

3.2.1 Transfer

The stratigraphic sequence drilled and exposed in the Transfer Area is the Boulder Creek Formation, Hulcross Formation, Gates Formation, Moosebar Formation and Gething Formation. The Geology Map (Appendix 1.2.1) illustrates the distribution of these stratigraphic units, where they are exposed, and the position of the economic coal seams.

Boulder Creek Formation

The Boulder Creek Formation, the uppermost unit exposed in the Transfer Area, is distributed in the northeast limb of the Transfer Anticline and in the core of the Transfer Syncline. This formation consists mainly of massive sandstone and conglomerate with minor shale and thin inferior coal seams. It is known to create ridges in this region. In the Transfer Area, a ridge formed by the lower part of the Boulder Creek Formation is conspicuous and easily traced both in the field and on the topography maps. The formation thickness is estimated at approximately 130 metres.

Hulcross Formation

The Hulcross Formation is conformably overlain by the Boulder Creek Formation. It is essentially characterized by homogeneous dark grey marine shales/siltstones interbedded with very fine sandstones. Intermittent thin beds of sandstone, calcareous shale and bentonite have been identified within this sequence as well. In the top and bottom 5 metres of the formation, siltstone is dominant and contains interbeds of shale. The base of the formation is marked by a thin bed of pebble conglomerate or coarse sandstone. The thickness of the Hulcross Formation is approximately 90 to 100 metres.

Owing to its very fine grained nature, the Hulcross Formation has little or no definitive outcrop in the area although the access road from the Gething to the Transfer Area provides good continuous exposures. The formation's location is defined as the recessive strata which exists between the resistant, ridge-forming conglomerate in the lower Boulder Creek Formation and the resistant, ridge-forming conglomerates and sandstones in the upper sequence of the Gates Formation.

Gates Formation

The Gates Formation contains the economic coal seams of the Transfer Area, and is widely distributed in both limbs of the Transfer Anticline. The formation can be divided into three members: Upper, Middle and Lower. Although each of the members contains coal, seams of economic thickness occur only in the Middle Gates Member. The total thickness of the formation is 235 metres. (+ 20 metres).

(i) Upper Gates Member:

The upper member of the Gates Formation is defined as between the base of the Hulcross Formation and the top of the first productive coal seam, namely D1. This sequence is approximately 90 metres thick.

The upper half of this member is non-marine and consists of fluvial and estuarine channel deposits (interbedded sandstones, siltstones, mudstones) and thin coals typical of a coastal plain environment. Occasional thin and continuous conglomerates have been identified.

In the Transfer Area, as well as other areas of the property, three coal zones designated as A, B and C seams are found in this upper portion. All three are considered to be uneconomical due to their thinness (usually less than 0.5 metres) and inconsistent development. In the Transfer Area, A and C seams are poorly developed, present only as carbonaceous shale. The thickness of B seam may exceed 2.5 metres in the nose of the Transfer Anticline (see QHD87005).

The lower sequence of Upper Gates is basically a shallow marine to near shore distributary set of regression deposits. Very fine and fine sandstone are predominant with subordinate amounts of shale and siltstone. Halfway through this section is a tuffaceous horizon, used as a marker for stratigraphic correlation. The conglomerate present at the base of the Upper Gates in the Transfer Area is stratigraphically equivalent to the so called "caprock" found in the Mesa, Wolverine and Shikano Pits. The thickness of the conglomerate is relatively thin compared to other locations and ranges from 2.75 metres in the southwest of the area to less than one metre (or non-existent) in the rest of the area.

(ii) Middle Gates Member

The lower limit of the Middle Gates Member is marked by the floor of K2 seam. The member contains six coal seams (D, E, F, G, J and K in descending order) which readily correlate to the coal seams in Shikano Pit (See Figure 3.2). Only the last four coal seams should be termed "mineable" in the Transfer Area, since D and E seams have poorly developed thickness and quality.

Interseam strata are related to fluvial channels and overbank deposits, composed mainly of shale with minor sandstone and siltstone, or of alternating beds of shale and sandstone. In some places, discontinuous channel sandstones are found at different horizons creating variations in interseam thickness

(ie; between D and E in QHD 86003, and F and G in QHD 86008). The thickness ranges and general lithologies of the interseam strata are summaried on Table 3.1 The Middle Gates Member is approximately 100 metres thick.

(iii) Lower Gates Member

The Lower Gates Member is a thickened, coarsening upward sequence of fine to medium sandstones. This unit was deposited in a near shore/shoreface-beach environment occasionally cut by distributary channels as evidenced by coarser less well sorted conglomerate and coarse sandstones.

The top massive light or pale green sandstones grade to underlying thinner beds of fine and very fine sandstones interbedded with sandy shales and shales of a marine transgression referred to as a transition zone. One thin coal seam designated as L seam is found at the base of this section approximately 40 metres below K2. The thickness of the Lower Gates Member is approximately 110 metres.

Moosebar Formation

The Moosebar Formation is a marine sequence grading from very fine sandstones and interbedded siltstones and shales at the top, to marine shales with thin bentonite layers at its base. The unit is defined as between the base of the first thick sandstone in the Lower Gates Formation transition zone to the top of the Gething. In the Transfer area it is interpreted as 85 metres thick.

Gething Formation

The Gething Formation has been drilled and mapped at some locations in the Murray River Valley. It is divided into three zones with the upper zone, approximately 50 metres containing coal seams exceeding 2 metres thick. The middle zone is a marine coarsening up sequence of approximately 90 metres thickness while the lower zone is approximately 70 metres thick and made up of thin channels and overbank deposits, but no significant coal.

3.2.2 Grizzly

The stratigraphy underlying the Grizzly Area is indentical to that of the Transfer Area: Boulder Creek, Hulcross, Gates, and Moosebar Formations in descending order. Four coal seams of mining interest, F, G, J and K seams, are found in the Middle Gates Member. The development of the Middle Gates Member is the same as that of the Transfer Area, with the following primary differences:

- i) a thick conglomerate and sandstone bed of zero to 25 metres is present between F and G seams, thickening the interval.
- ii) the interseam thickness between J and K1 is relatively thin (0.38 metres 0.58 metres) for most of the area.
- iii) the interval between K1 and K2 is thicker (3.0 metres 3.7 metres) than the Transfer area where it can be less than one metre thick.

The thickness ranges and general lithologies of the interseam strata are summarized on Table 3.2. The distribution of the various stratigraphic units is also illustrated on the Grizzly Geology Map in Appendix 1.2.2

3.2.3 Perry Creek

The stratigraphic sequence exposed in the Perry Creek Area is similar to the regional Quintette Stratigraphy. In the immediate area, the sequence is from the Boulder Creek Formation at the top of Fortress Mountain to the Gething Formation exposed in Perry Creek and the Wolverine River Valley.

Of particular interest is the Middle Gates Formation exposed in the Perry Creek Syncline. The Middle Gates sequence in this area contains a significant number of channel conglomerates between the coal seams. These conglomerates are best developed between what are tentatively identified as seams E and G (Seams 6 and 3 in 1974 correlation) and seams G and J (Seams 3 and 2 in 1974 correlation).

The remaining stratigraphy is similar to other Quintette areas. For their descriptions, see the Transfer Area stratigraphy in this report and the descriptions in previous Quintette Geological reports.

3.2.4 Transfer Coal Seam Development and Correlation

As mentioned in the stratigraphic descriptions, six coal seams are present in the Middle Gates Member in the Transfer Area, four of these (F, G, J and K seams) are termed "mineable". The cummulative coal seam thickness (F,G,K,K1 and K2) in the Transfer Area exceeds 14 metres.

Both D and E seams are split into thin coal portions by partings and designated as "non-mineable" for most of the area. In some drill holes, however, these seams have a mineable thickness of more than 1 metre ie; D seam in QHD86005 and E seam in QHD86003, and further exploration may delineate areas in which D and or E seams are recoverable. Table 3.3 summarizes average seam thickness for the Transfer Area.

F Seam

F seam is well developed in thickness throughout the Transfer Area, averaging more than 4 metres. The columnar section depicted in Figure 3.3 shows a typical F seam development. The seam is generally divided into three portions designated as F1, F2 Parting and F2 from top to base. In the vicinity of QHD86003, F1 is not present and the parting (F2P) forms the top portion of F seam. The parting between F1 and F2 (F2P) is composed mainly of high ash coal and carbonaceous shale. F2 comprises the major portion of the seam, and consists mainly of low ash coal with two to four discontinuous thin partings. The thickness of the partings is normally less than 10 centimetres, but the parting developed at the middle of F2 can be relatively thick and in fact, results in the lower portion of F2 being unmineable in the vicinity of QHD87009. The roof and floor of the seam consist of shale or carbonaceous shale, with coal stringers.

G seam

G seam is characterized by two major continuous partings, and is divided into five portions: three coal portions identified as G1, G2 and G3; and two partings denoted as G2P and G3P. Figure 3.4 shows a typical G seam section. G1 has little or no partings. G2P is composed of shale, carbonaceous shale, and inferior coal. G2 occasionally contains one or two very thin partings in the lower half. G3P is composed of shale and siltstone, in somes places (QHD86001, 86007) consisting entirely of siltstone with very thin bands of shale at the top and bottom. G3 is characterized by a group of partings near the base. The roof of G seam is shale, occasionally with a thin carbonaceous layer underlying it. The floor of G seam consists of carbonaceous shale.

J Seam

J seam is well developed in thickness throughout the Transfer Area, averaging more than 4.5 metres. Figure 3.5 shows a typical J seam section. Although no major parting appears in J seam, many thin inferior coal bands (fusinite?), usually less than 5 centimetres thick, are present. The roof consists of shale or carbonaceous shale, and the floor is carbonaceous shale with coal bands.

K Seam

K seam is composed of two separate sub-seams identified as K1 for the upper and K2 for the lower. A typical K seam section is shown in Figure 3.6.

(i) K1 Seam

K1 seam is characterized by alternating thin beds of coal and carbonaceous shale in the upper portion. The seam grades to carbonaceous shale in some areas and is therefore excluded from coal mining sections.

For most of the Transfer Area, the interval between J and K1 is less than 1 metre.

(ii) K2 Seam

K2 seam has one or two discontinuous thin partings. The interseam strata between K1 and K2 consist of shale, siltstone and carbonaceous shale with coal stringers, with sandstone appearing in the eastern part of the area. The thickness of the interseam is normally greater than 1 metre, increasing to more than 3 metres toward the southeast (Grizzly). In some areas the interseam is less than 1 metre in which case J to K2 Seam may form a single mining section.

3.2.5 Grizzly Coal Seam Development and Correlation

The characteristics of each mineable coal seam in the Grizzly Area are very similar to that of the Transfer Area. Only points of significant difference are described here. The cummulative mineable coal seam thickness (excluding K2) in the Grizzly Area exceeds 12 metres. Table 3.4 summarizes the average seam thickness for the Grizzly Area.

F Seam

F seam is relatively thin compared to the Transfer Area, averaging more than a half metre less in thickness.

G Seam

In the northeast limb of the Grizzly Structure, the thickness of the lower parting (G3P) thickens to just under 1 metre.

G seam is overlain directly by a thick conglomerate and sandstone bed.

The overall seam thickness is similar to the Transfer Area.

J Seam

J seam has a similar development with a slightly thinner average thickness.

K1 Seam

K1 seam may be mined together with J seam in a single mining section owing to the thin interval between the two seams.

K2 Seam

K2 seam is thinner, and is separated by a thick interseam (up to 3.8 metres) from K1.

3.2.6 Perry Creek Seam Development and Correlation

The most recent correlation in the Perry Creek Area was done in 1974 (see the 1974 Wolverine Exploration Report). In this correlation, seams were identified as 1 through 8. The following is a tentative comparison to current nomenclature:

1974 Seam designation	1987 Seam Identification
8	D
7	. Е
6	E
5	F?
4	G1?
3	G2
2	J1
1	J2 (K1)

The most significant seam is J1. The 1987 drilling intersected a consistent J1 seam development of more than 5.5 metres. From the 1974 correlation, it is expected that the mineable section of J seam will decrease where the overlying channel conglomerate thickens. The underlying J2 seam is expected to maintain a consistent thickness of approximately 2 metres throughout the area.

G seam was also intersected in the 1987 program and may be correlateable to G2 seam in the Mesa and Wolverine Pits. Its thickness does not exceed 1 metre.

The seams in the upper section of Middle Gates Formation were not drilled in 1987. From previous drilling (1971 and 1974), thickness of these seams will not exceed 2 metres except where two seam coalesce (as do seams 6 and 7 (E?) in QWD7118).

The coal seam intersections are recorded on the drill hole summary sheets in Appendix T.2.1. Since the strata dips at less than 10^0 where these holes were drilled, these intersections can be considered as a true seam thickness. Average thickness and thickness ranges are as follows:

Perry Creek Syncline
Seam Thicknesses from 1987 Rotary Drilling

Seam	Thickness Range (m)	Average (m)
G	0.84 - 0.90	0.87
J1 Parting (J2P) J2	5.2 - 7.04 1.3 - 1.66 2 - 2.36	5.84 1.57 2.22

3.3 REGIONAL STRUCTURE

The regional geologic structure of the Transfer/Grizzly Area is best illustrated in Figures 3.7 and 3.8. As shown in these figures, the area is characterized by northwesterly trending folds. Three pairs of folds are arranged in parallel and identified as the Shikano Anticline and Syncline, the M-9 Anticline and Syncline, and the Transfer Anticline and Syncline (from north to south). The Transfer Area is located on the Transfer Anticline and the Grizzly Area is on the Shikano Anticline.

3.4 LOCAL STRUCTURE

3.4.1 Transfer

The dominant structure in the Transfer area is the northwest-southeast trending Transfer Anticline that plunges $(10^{0}-20^{0})$ to the northwest. The coal-bearing Gates Formation is distributed on both limbs of the anticline.

Dips on the northeast limb of the anticline are 35° to 40° in the western half of the limb, becoming steeper toward the southeast, with a maximum of 57° at the eastern end. On the southwest limb, dips are relatively steep and range from 50° to 60° . No major faults have been confirmed in the area although minor faults are expected along fold axes.

3.4.2 Grizzly

The geologic structure of the Grizzly Area is controlled by the Shikano Anticline plunging $10^{\rm O}$ - $30^{\rm O}$ to the northwest. This anticline has a broad or box-like top of about 100 metres in width. The strata dip $55^{\rm O}$ to $65^{\rm O}$ on the northeast limb of the anticline and about $45^{\rm O}$ on the southwest limb. No major faults have been found in the area. As in the case of the Transfer Area, further minor faults will likely occur along or near fold axes.

3.4.3 Perry Creek

The Perry Creek exploration target is the Perry Creek Syncline which is an open fold plunging gently to the northwest. The west limb of the fold is expected to have dips of less than 10^{0} while the east limb will have dips of up to 45^{0} .

Table 3.1

Transfer

Summary of Interseam Strata in the Middle Gates Member

	Approximate Range (m)	Thickness	General Lithology
D seam to E seam	12 -	27	Mainly shale with minor very fine sand and channel sandstone
E seam to F seam	16 -	31	Southwest limb of Transfer Anticline- dominant sandstone with shale. North limb of Transfer Anticline - shale with minor sandstone and sandy shale.
F seam to G seam	13 -	33	Alternating beds of shale and sandstone, channel sandstone.
G seam to J seam	13 -		Shale sandstone. A 3 - 4 metre sandstone zone occurs at 3 metres above J seam.
J seam to K1 seam	0.4 -	1.5	Shale, carbonaceous shale.
K1 seam to K2 seam	0.7 -	4.3	Shale, carbonaceous shale and very fine to fine sandstone

Table 3.2

Summary of Interseam Strata in the Middle Gates Member

Grizzly

	Approximate Thick Range (m)	General Lithology
D seam to E seam	12 - 30	Carbonaceous shale with very fine to medium sand.
E seam to F seam	19 - 23	Very fine to fine sand grading to shales and carbonaceous shales towards F seam.
F seam to G seam	18 - 39	Conglomerate and fine sandstone. Shale with fine sandstone bed in upper 6 to 9 metres.
G seam to J seam	14 - 18	Alternating beds of shale, siltstone and fine sandstone.
J seam to K1 seam	0.4 - 1.1	Carbonaceous shale and siltstone.
K1 seam to K2 seam	3 - 7	Shale with very fine to fine sandstone beds.

Table 3.3

Seam Thickness Range

Transfer

Seam	Approximate Range (m)	Thickness
F	2.4 -	5.5
G	2.8 -	5.1
J *	3.9 -	6.0
K1 **	0.8 -	1.4
K2	0.8 -	1.4

^{*} Anomolous thickness of 1.90 m (QHD87010) not included. ** Anomolous thickness of 0.54 m (QHD87010) not included.

Table 3.4

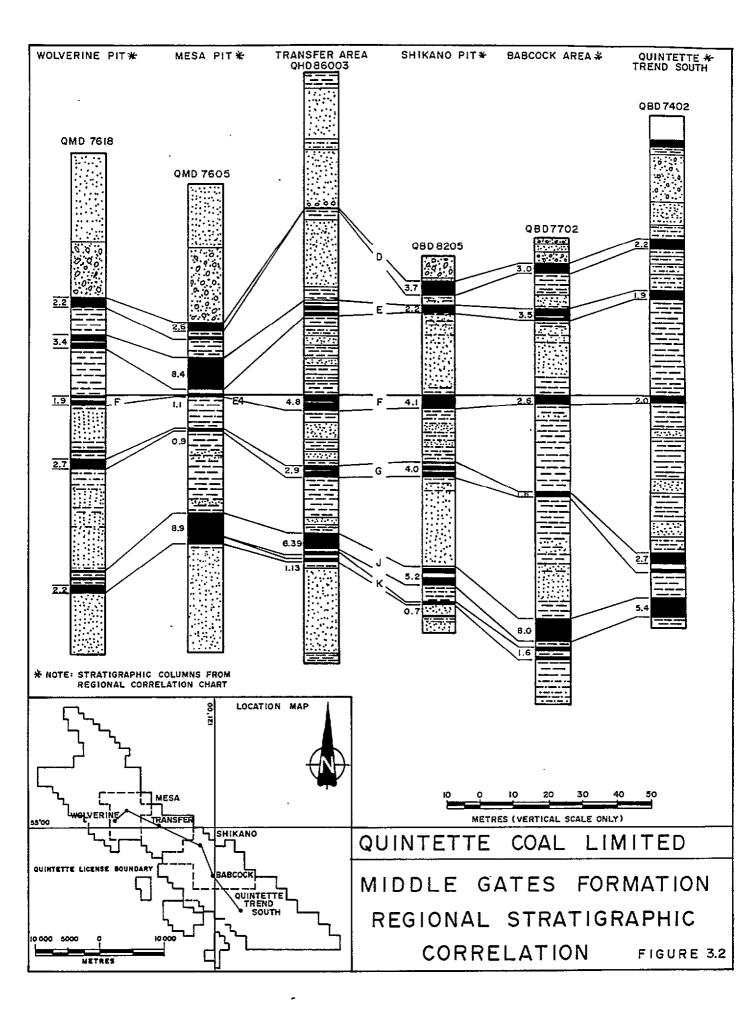
Seam Thickness Range

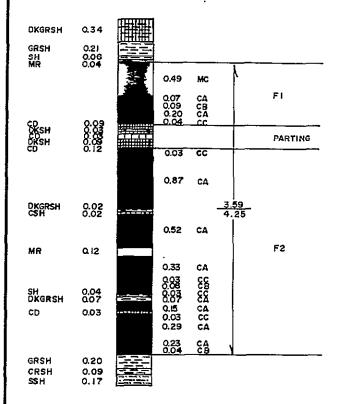
Grizzly

Seam	Approximate Thickness Range (m)
F	3.3 - 4.2
G	2.8 - 4.4
J	4.0 - 4.9
K1	0.9 - 1.5
K2	0.5 - 0.8

OWER CRETACEOUS	FORT ST. JOHN GROUP	GATES FORMATION HULCROSS BOULDER BY BY A FORMATION CREEK BY	TION	Sandstone, con-	Cyclic alternation of interbedded gray scale and coarse to fine grain sand-stone, conglomerate and coal.	
		MOOSEE FORMAT	BAR	Marine shale with glauconific sand	h sideritic concretions, Istone at base.	
	BULLHEAD GROUP	GETHING FORMATION (120 - 200m)		Middle Coal Zon	Skeeter-Chamberlain Middle Coal Zone	
		CADOMIN 15-45 m		Basal conglomer	ate	
UPPER JURASSIC	MINNES GROUP (~ 2100m)			Sultstones, shale	s, some sandstone and coaly	

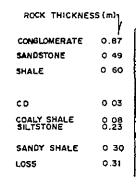
QUINTETTE COAL LIMITED GENERAL STRATIGRAPHIC SECTION

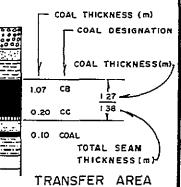




VERTICAL SCALE (metres)

LEGEND



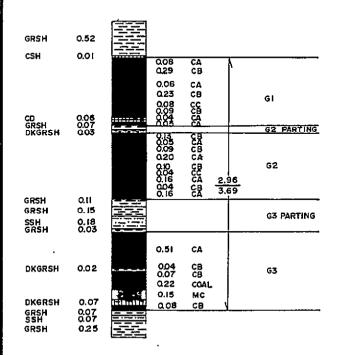


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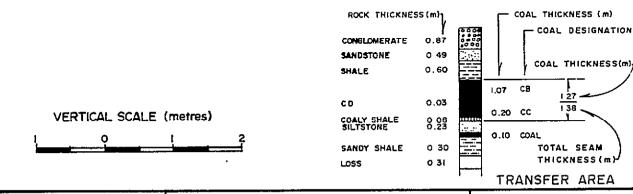
F OF SEAM TAKEN FROM **QHD 86008**

Rev. FIGURE 3.3 0

TYPICAL SECTION



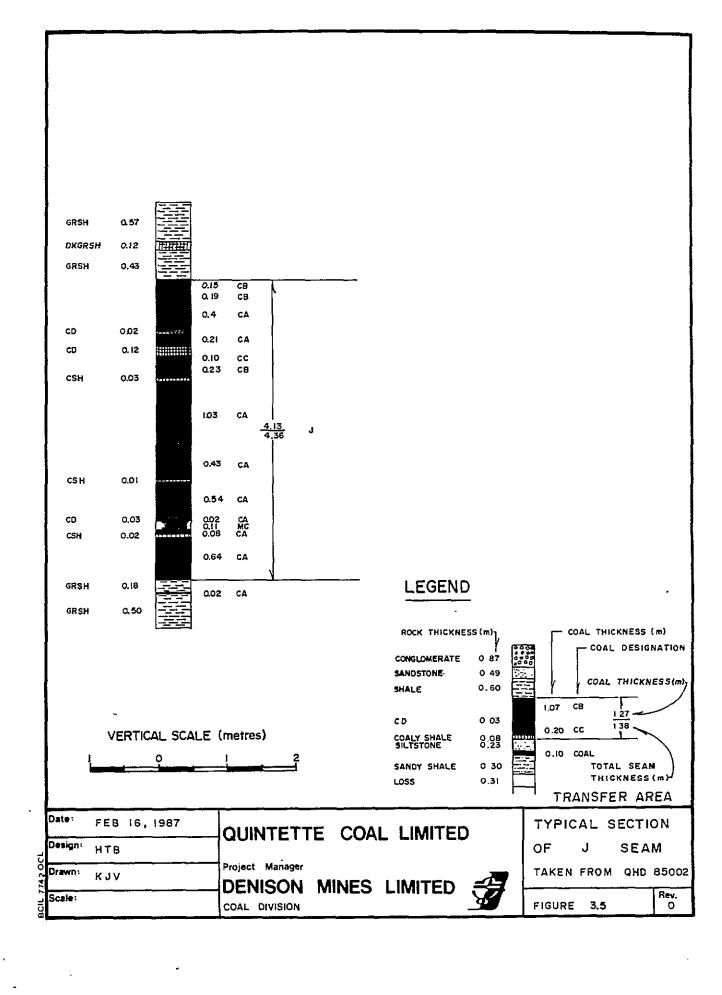
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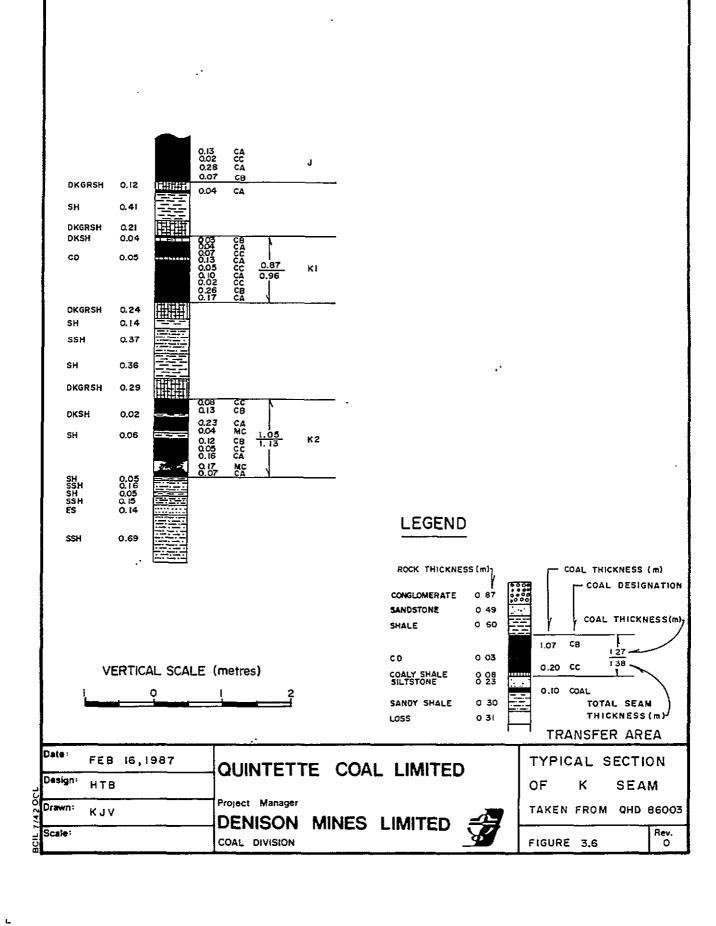


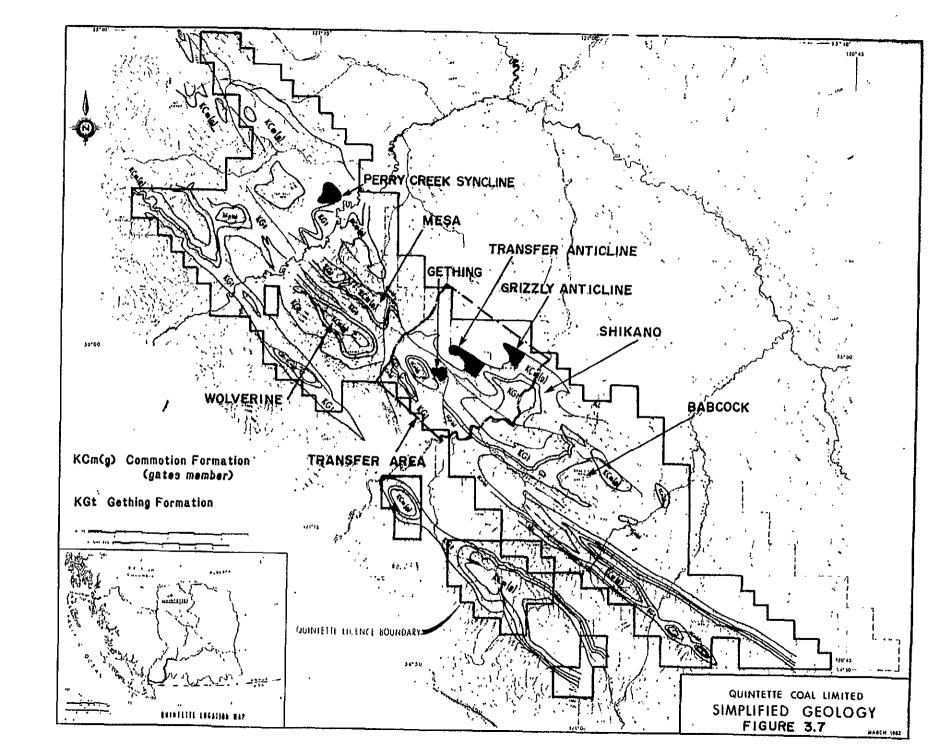
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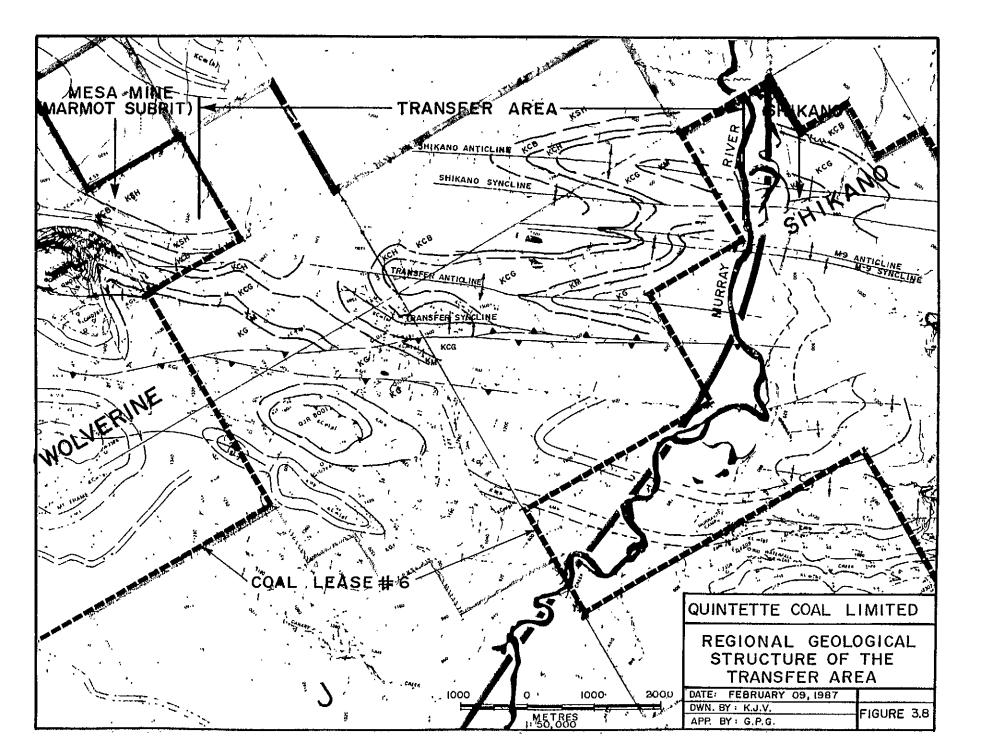


TYPICAL SECTION OF G SEAM TAKEN FROM QHD 86008 Rev. O FIGURE 3.4









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Appendix T.1

1987 Exploration Report

Legal Description of Coal Licences

APPENDIX 1 LEGAL DESCRIPTION OF THE QUINTETTE COAL LICENCES

3633 May 27/75 93-P-3 C 63, 64, 73, 74 297 3632 May 27/75 93-P-3 C 47, 48, 57, 58 297 3631 May 27/75 93-P-3 C 25 75 3630 May 27/75 93-P-3 C 21, 22, 31, 32 298 3628 May 27/75 93-P-3 C 21, 22, 31, 32 298 3628 May 27/75 93-P-3 C 15 75 3627 May 27/75 93-P-3 C 15 75 3627 May 27/75 93-P-3 C 15 75 3627 May 27/75 93-P-3 C 15, 12 149 3626 May 27/75 93-P-3 C 11, 12 149 3626 May 27/75 93-P-3 F 25, 35 149 3627 May 27/75 93-P-3 F 25, 35 149 3628 May 27/75 93-P-3 F 25, 35 149 3600 Apr 29/75 93-P-3 F 25, 35 149 3601 Apr 29/75 93-P-3 F 21, 22, 31, 32 297 3602 Apr 29/75 93-P-3 F 21, 22, 31, 32 297 3603 Apr 29/75 93-P-3 F 2, 6, 15, 16 297 3600 Apr 29/75 93-P-3 F 3, 4, 13, 14 297 3601 Apr 29/75 93-P-3 F 1, 2, 11, 12 297 3600 Apr 29/75 93-P-3 G 9, 10, 19, 20 297 3599 Apr 29/75 93-P-3 G 9, 10, 19, 20 297 3599 Apr 29/75 93-P-3 G 8, 18 149 3598 Apr 29/75 93-P-3 G 8, 18 149 3598 Apr 29/75 93-P-3 B 100 75 3595 Apr 29/75 93-P-3 B 69, 79 3596 Apr 29/75 93-P-3 B 100 75 3595 Apr 29/75 93-P-3 B 66, 76 3594 Apr 29/75 93-P-3 B 67, 68, 77, 78 297 3599 Apr 29/75 93-P-3 B 67, 68, 77, 78 297 3599 Apr 29/75 93-P-3 B 67, 68, 77, 78 297 3590 Apr 29/75 93-P-3 B 67, 68, 77, 78 297 3591 Apr 29/75 93-P-3 B 67, 68, 77, 78 297 3592 Apr 29/75 93-P-3 B 67, 68, 77, 78 297 3593 Apr 29/75 93-P-3 B 67, 68, 77, 78 297 3594 Apr 29/75 93-P-3 B 67, 68, 77, 78 297 3595 Apr 29/75 93-P-3 B 67, 68, 77, 78 297 3590 Apr 29/75 93-P-3 B 67, 68, 77, 78 297 3400 Feb 1/75 93-P-3 D 81, 82, 91, 92 297 3400 Feb 1/75 93-P-3 D 81, 82, 91, 92 297 3400 Feb 1/75 93-P-3 D 81, 82, 91, 92 297 3400 Feb 1/75 93-P-3 D 83, 84, 93, 94 297 3400 Feb 1/75 93-P-3 C 87, 88, 97, 98 297 3398 Feb 1/75 93-P-3 C 67, 68, 77, 78 297 3399 Feb 1/75 93-P-3 C 67, 68, 77, 78 297 3399 Feb 1/75 93-P-3 C 67, 68, 77, 78 297 3399 Feb 1/75 93-P-3 C 67, 68, 77, 78 297 3399 Feb 1/75 93-P-3 C 67, 68, 77, 78 297 3399 Feb 1/75 93-P-3 C 67, 68, 77, 78 297 3399 Feb 1/75 93-P-3 C 67, 68, 77, 78 297 3399 Feb 1/75 93-P-3 C 67, 68, 77, 78 297 3399 Feb 1/75 93-P-3 C 67, 68, 77, 78 297 3399 Feb 1/75 93-P-3 F 87, 88, 97, 98 298	Licence No	Date Issued	Series	Block	Units	Paying Hectares
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3399 Feb 1/75 93-P-3 C 85, 86, 95, 96 297 3398 Feb 1/75 93-P-3 C 69, 70, 79, 80 297 3397 Feb 1/75 93-P-3 C 67, 68, 77, 78 297 3396 Feb 1/75 93-P-3 C 65, 66, 75, 76 297 3395 Feb 1/75 93-P-3 C 49, 59, 60 223 3394 Nov 25/74 93-P-3 F 89, 99 149 3393 Nov 25/74 93-P-3 F 87, 88, 97, 98 296	3400	Feb 1/75	93-P-3	C	87, 88, 97, 98	297
3397 Feb 1/75 93-P-3 C 67, 68, 77, 78 297 3396 Feb 1/75 93-P-3 C 65, 66, 75, 76 297 3395 Feb 1/75 93-P-3 C 49, 59, 60 223 3394 Nov 25/74 93-P-3 F 89, 99 149 3393 Nov 25/74 93-P-3 F 87, 88, 97, 98 296	3399	Feb 1/75	93-P-3	С		297
3396 Feb 1/75 93-P-3 C 65, 66, 75, 76 297 3395 Feb 1/75 93-P-3 C 49, 59, 60 223 3394 Nov 25/74 93-P-3 F 89, 99 149 3393 Nov 25/74 93-P-3 F 87, 88, 97, 98 296	3398	Feb 1/75	93-P-3	C	69, 70, 79, 80	297
3395 Feb 1/75 93-P-3 C 49, 59, 60 223 3394 Nov 25/74 93-P-3 F 89, 99 149 3393 Nov 25/74 93-P-3 F 87, 88, 97, 98 296	3397	Feb 1/75	93-P-3			297
3394 Nov 25/74 93-P-3 F 89, 99 149 3393 Nov 25/74 93-P-3 F 87, 88, 97, 98 296	3396	Feb 1/75	93-P-3	C	65, 66, 75, 76	297
3393 Nov 25/74 93-P-3 F 87, 88, 97, 98 296	3395	Feb 1/75			49, 59, 60	223
	3394	Nov 25/74	93-P-3	F	89, 99	149
3392 Nov 25/74 93-P-3 F 86 75					87, 88, 97, 98	
	3392	Nov 25/74	93-P-3	F	86	75

Licence No	Date Issued	Series	Block	Units	Paying Hectares
3391	Nov 25/74	93-P-3	F	67 69 77 70	207
3390	Nov 25/74 Nov 25/74	93-P-3 93-P-3		67, 68, 77, 78 65, 66, 75, 76	297
3389	Nov 25/74 Nov 25/74	93-P-3 93-P-3	r F	63, 64, 74	297
3388	Nov 25/74 Nov 25/74	93-F-3		45, 46, 55, 56	223 297
3387	Nov 25/74	93-P-3		43, 44, 53, 54	
3386	Nov 25/74	93-P-3	F	41, 42, 51, 52	297
3385	Nov 25/74	93-P-3	G	50	297 75
3384	Nov 25/74	93-P-3	G		75 207
3383	Nov 25/74	93-r-3 93-P-3		29, 30 39, 40	297
3382			, G	27, 28	149
3381	Nov 25/74	93-P-3	В	86, 95, 96	223
	Nov 25/74	93-P-3	C	71, 72	149
3380	Nov 25/74	93-I-14	J	51, 52	149
3374	Nov 25/74	93-I-15	E	85, 86, 95, 96	298
3373	Nov 25/74	93-I-15	E	83, 84, 93, 94	298
3371	Nov 25/74	93-I-15	E	63, 64, 73, 74	298
3369	Nov 25/74	93-I-15	D	90, 100	150
3367	Nov 25/74	93-I-14	G	83, 84, 93, 94	298
3366	Nov 25/74	93-I-14	Α	81, 82, 91, 92	299
3364	Oct 16/74	93-I-15	E	9, 10, 19, 20	299
3362	Oct 16/74	93-1-14	J	5, 15	149
3361	Oct 16/74	93-1-14	J	3, 4, 13, 14	298
3360	Oct 16/74	93-I - 14	Н	69, 70, 79, 80	298
3359	Oct 16/74	93-1-14	Н	67, 68, 77, 78	298
3358	Oct 16/74	93-I - 14	H	65, 66	149
3357	Oct 16/74	93-I-14	Н	49, 59, 60	224
3356	Oct 16/74	93-I -1 4	H	47, 48, 57,58	298
3355	Oct 16/74	93-1-14	Н	45, 46, 55, 56	298
3354	Oct 16/74	93-1-14	Н	43, 44, 53, 54	298
3353	Oct 16/74	93-I - 14	H	37, 38	149
3352	Oct 16/74	93-I -1 4	Н	25, 26, 35, 36	299
3351	Oct 16/74	93-I-14	K	83, 93, 94	223
3350	Oct 16/74	93-1-14	K	81, 82, 92	223
3349	Oct 16/74	93-I-14	K	71	75
3346	Oct 16/74	93-I-14	J	83, 84, 93, 94	298 [.]
3345	Oct 16/74	93-I-14	J	69, 70, 79, 80	298
3344	Oct 16/74	93-I - 14	J	63, 73, 74	223
3343	Oct 16/74	93-I-14	J	61, 62, 71, 72	298
3341	Oct 16/74	93-I-14	I	89, 99	149
3340	Oct 16/74	93-I-14	I	87, 88, 98	223
3339	Oct 16/74	93-I-14		. 85, 86, 95	223
3336	Oct 16/74	93-I-14	I	69, 70, 79, 80	298
3335	Oct 16/74	93-I-14	I	67, 68, 77, 78	298
3326	Oct 16/74	93-I-14	I	29, 30, 39, 40	298
	•				

Licence No	Date Issued	Series	Block	Units	Paying Hectares
3325 ·	Oct 16/74	93-I-14	I	27, 28, 37, 38	298
3324	Oct 16/74	93-1-14	I	25, 26, 35, 36	298
3320	Oct 16/74	93-I - 14	I	7, 8, 17, 18	298
3319	Oct 16/74	93-1-14	I	5, 6, 15, 16	298
3316	Oct 16/74	93-I-14	Н	85, 86, 95, 96	298
3315	Oct 16/74	93-1-14	Н	83, 84, 93, 94	298
3314	Oct 16/74	93-1-14	Н	81, 82, 91, 92	298
3313	Oct 16/74	93-I - 14	Н	73	75
3312	Oct 16/74	93-1-14	Н	61, 62, 71, 72	298
3304	Oct 16/74	93-I-15	E	89, 90, 99, 100	298
3303	Oct 16/74	93-I-15	Ε	87, 88, 97, 98	298
3302	oct 16/74	93-1-15	E	69, 70, 79, 80	298
3301	Oct 16/74	93-I-15	Ē	67, 68, 77, 78	298
3300	Oct 16/74	93-I -1 5	E	65, 66, 75, 76	298
3299	Oct 16/74	93-I -1 5	E	59, 60	149
3298	Oct 16/74	93-I -1 5	E	47, 48, 57, 58	298
3297	Oct 16/74	93-I-15	Ε	45, 46,55, 56	298
3296	Oct 16/74	93-I -1 5	E	43, 44, 53, 54	298
3295	Oct 16/74	93-I-15	E	41, 42, 51, 52	298
3293	Oct 16/74	93-1-15	Ε	25, 26, 35, 36	299
3292	Oct 16/74	93-I-15	Ε	23, 24, 33, 34	299
3291	Oct 16/74	93-1-15	Ε	21, 22, 31, 32	299
3290	Oct 16/74	93-I-15	Ε	3, 4, 13, 14	299
3289	Oct 16/74	93-I - 15	Ε	1, 2, 11, 12	299
3288	Oct 16/74	93-I-15	F	49, 50, 59, 60	298
3287	Oct 16/74	93-I-15	F	48	75
3286	Oct 16/74	93-I-15	F	29, 30, 39, 40	299
3285	Oct 16/74	93-I-15	F	27, 28, 37, 38	299
3284	Oct 16/74	93-I-15	F	25, 26	150
3282	Oct 16/74	93-I -1 5	F	7, 8, 17, 18	299
3281	Oct 16/74	93-I-15	F	5, 6, 15, 16	299
3280	Oct 16/74	93-I -1 5	F	3, 4, 13, 14	299
3279	Oct 16/74	93-I-15	F	2	75
3662	Sep 27/76	93-1-14	J	81, 82, 91, 92	298
3661	Sep 27/76	93-I-14	I	90, 100	149
3660	Sep 17/76	93-P-3	В	1, 2, 11,12	298
4532	Jan 15/79	93-P-3	В	70, 80	149
4533	Jan 15/79	93-P-3	₿	98	75
4534	Jan 15/79	93-P-3	В	89, 90, 99	223
4535	Jan 15/79	93-P-3	C	1, 2	149
4537	Jan 15/79	93-P-3	С	26, 35, 36	223

Licence No	Date Issued	Series	<u>Block</u>	<u>Units</u>	Paying Hectares
4538	Jan 15/79	93-P-3	С	27, 28, 37, 38	297
4540	Jan 15/79	93-P-3	C	43, 44, 53, 54	297
4541	Jan 15/79	93-P-3	C	45, 46, 55, 56	297
4542	Jan 15/79	93-P-3	C	61, 62	149
4544	Jan 15/79	93-I-14	K	91	75
7845	Aug /84	93-I -1 4	I	96	75
7846	Aug /84	93-I-14	I	97	75
7847	Aug /84	93~P-3	S	5, 6, 15, 16	300
7848	Aug /84	93-P-3	Α	7, 8, 17, 18	300
7849	Aug /84	93-P - 3	Α	9, 10, 19, 20	300
7850	Aug /84	93-P-3	В	21, 22, 31, 32	300
7851	Aug /84	93-P-3	В	43, 44, 53, 54	300
7852	Aug /84	93-P-3	В	65, 75	150
7853	Aug /84	93-P-3	В	85	75

Total hectares 33,001

Do not film this appendix

Appendix T.2

1987 Exploration Report

Drill Hole Summaries

(between the red inserts)

Appendix T.2.1

Rotary Drill Holes

Quintette Coal	Limited

PROJECT GRIZZCY

HOLE NUM	BER	HOLE	ANG	LE	CC	DLLAR	BEA	RING	Т	OTA	L DEPT			RE SIZE	MAP	/ SEC	TION NI	UMBER
Q4R876	901	- G	5°			-21	10 °		1	89	9.6 m	•	St	· Rot.				
					. M.	CO	ORI	DINA	TES							DAT	E (from	/to}
COLLAR ELEV	ATION		,١,	i NOI	тн							EAS	T	·	DRILL	. E D	CORE	LOGGED
948.1 (0096302.76 624679.72																		
			OPI		I C A	L	CAL DIR SLANT DEPTH								VERB	URD	EN	
SCALE DE	N BRD	LSD HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT	 本	Т		0	EPTH		COMI	POSITIO	N
1:200 V			V	V			1	レ	~									· · · · · · · · · · · · · · · · · · ·
1 000								1										
-No Detail	loge	-Taplo	st /			* d);rec	8 mc	10	un	bn E	3PF) —	other C	ogs by	, Q	CC.	
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SEAM ELEVATIO	N DRILL	ED INTERVAL	AVG. B.C. N.	TRU	NESS C	OAL/R	OCK RE	COVERY	INTERS	EAM IESS	DATE DRILLED	SA	DATE MPLED	SAMPLE TAG No.	COMP. LAB No.		COMMEN	ITS
"O" Corrles	/(16.2										··· ······				1		
"O" Correla	1 7	30 h										-				 		
- Correla	Maria is	30.5																
FAULT ?	4	6.7											-					
										[·					
<i>δι</i>	72.	6-73.6								\dashv						<u> </u>		
B2P	73.	6-74.0													····			
B2	74.0	- 74.9										_		•				
									r									
EI	88:	7- 88.9	<u> </u>						2. 2	\dashv								
EZP	88.9	1 - 90.3								\dashv								
E2	90.	3- 92.2								[
E3P	92.2	2-92.8																
E3	92.	8-95,0														lower	zone h	i ash
1	I			1			- !					- 1	i			I	•	

Quintette Coal Limited

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HOLE N	VUMB	ER	Н	OLE	ANGI	LE	co	LLAR	BEAR	≀ING	T/	OTAL	DEPT	Н	CORE	SIZE	МАР	/ SEC	TION NUMBER	
QHR	<u>870</u>	ଅ/_																		
						U. T	. M.	CO	ORD	INA	TES							DAT	E (from /to)	
COLLAR	ELEVAT	ION			ı ^{1,}	NOR	TH							EAS	T		DRILI	LED	CORE LOGGE	ΞD
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				G E	ОРЬ	HYS	I C A	L [DATA	Ā						0	VERB	URD	EN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT 4				DEP	TH		COWL	POSITION	
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						MIN	ING	SEC	TION				
EAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
FI		114.4-	115.0		<u></u>							2 11100	
^c 2P		115.0-	115.0 115.3 118.5										
F2 F)		115.3	- 118.5		·····						,		
الرت		114.4.	1185										
<u>G</u> (ongl.		152.5										
Gı Gze	<u> </u>	152,5.	-152.8 -153.0										
321 52		153.0.											-
53 A)	154.1-	154.9										
53 3)			-156.2 -156.2				·						
			_										
I		174.8-	177.0										

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HOLE N	NUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	ING	T (TOTAL DEPTH CORE SI				SIZE	MAP / SECTION NUM			₽
QHR.	87¢	101																		
						U. T.	. M .	CO	ORD	INA	ATES							DAT	E (from / to)
COLLAR	ELEVAT	ION			111	; N O R	TH							EAS	Т		DRIL	LED	CORE LOG	GED
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				G E	OPI	HYS	I C A	į,	DATA	A						С	VERE	URD	EN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT ∡				DEP	TH		COWL	POSITION	
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				<u> </u>						<u></u>										

	MINING SECTION											
SEAM	ELEVATION { BASE }	DRILLED INTER	/AL AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
Κo												
Kil	uppy	177.7- 178	2									V. hi ash
KI	love	178.2 - 179										
(K))	177,7-179,	7									
							, <u></u>					1
KZ		179.7 - 184 181.3 - 181.	<u>ع</u>									
(Gar	<u>'</u>	181.3 - 181.	(ک									
<u> </u>				-	ļ							
<u>K2</u>	·	184.3 - 185.	0									
Coed	?	185.6-185	.8			•		···				
	<u>. </u>			ļ								
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FORM 79-0850-RO1

Quintette Coal Limited

PROJECT	SR	122L	4
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HOLE N	1 U M B I	ĒR	H	OLE	ANG	LE	CO	LLAR	BEARI	ING	ŢĆ	JATC	DEPT	Н	CORE SIZE	MAP / SECTION NUMBER				
QHR87002 ~- \$3° 210°												159	. 3		S4 "Rot.					
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COLLAR ELEVATION L'I ; NORTH														EAS	T	DRIL	LED	CORE LOGGED		
679.90 (096356.15											424	465	.Zb							
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SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT	·			DEPTH		сом	POSITION		
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	* R	ods only			-	×Х	40	SSM	only.	- hole	blocked	/
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SEAM	ELEVATION (BASE)	DRILLED INTERVA	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
01		19.8-22.3										
120		22.3- 23.0										
1/2		23.0-23.8										
E2_		45.6 - 45.9										
	·											
FI		70.5 - 71.1	ļ					<u>.</u>				
F2F		71.1-71.6										111111111111111111111111111111111111111
F2		71.6-75.8				<u>.</u>						
F2		70.5 -75.8	_									
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G	al	85.0-112.2										
Gi	▼	112.2-112.5										
G2.	2	112.5-112.6										

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HOLE NU	MBER	Н	OLE	ANG	LE	CO	LLAR	BEA	RING	T	OTAL	DEP	TH	CORE	SIZE	MAP / SECTION NUMBER				
QHR87	7002																			
	·····				U. T	. M.	CC	ORE	NIC	TES		•		<u> </u>			DAT	E (from /to)		
COLLAR ELE	VATION	ļ		,11,	; NOF	RTH							EAS	T		DRIL	LED	CORE LOGGED		
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			GE	O P I	HYS	I C A	L.	DAT	A	<u> </u>					С	VER	BURD	EN		
SCALE D	SCALE DEN BRD LSD HRD GAM NEUT FBE FBS CAL DIR													DEP	ТН		COMI	POSITION		
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	MINING SECTION AM ELEVATION DRILLED INTERVAL AVG. TRUE COAL/ROCK RECOVERY INTERSEAM DATE DATE SAMPLE COMP. COMMENTS THICKNESS DRILLED SAMPLED TAG No. LAB NO. COMMENTS														
SEAM	(BASE)	DRILLED INTER	VAL AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS			
			·												
G2		112.6-113	6												
630		113.6-114.	7				ļ <u></u>								
63		114.7- 115.	9												
63 (6)		112,2-115.9)			,									
J		134.0-138	.9												
KIR		138.9- 140.2													
KI		X40.2-141.	1					п							
K2	>	141,1- 145.	3												
<u> KZ</u>		145.3 - 145.	7												
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HOLE N	OLE	ANG	LE	CO	LLAR	BEAR	ING	Ţ	OTAL DE	PTH	CORE SIZE	·····								
QTIR87003 -60° ~211°												140.0)	Sh. Rot						
U. T. M. COORDINATES													TES DATE (from ,							
COLLAR	ELEVAT	ION				₍ NOR	тн						EAS	Τ	DRILLED	CORE LOGGED				
995.45 4096428.35											624	578.6°	م			870604				
	GEOPHYSICAL DATA													0	VERBURD	EN				
SCALE DEN BRD LSD HRD GAM NEUT FBE FBS CAL DIR									CAL	DIR	SLANT			DEPTH	сом	POSITION				
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	MINING SECTION EAM ELEVATION DRILLED INTERVAL AVG. TRUE COAL/ROCK RECOVERY INTERSEAM DATE DATE SAMPLE COMP. COMMENTS THICKNESS DRILLED SAMPLED TAG No. LAB No. COMMENTS														
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS		
<u></u> £3		12.48-	14.55										Significant parting		
													Significant parting from 13.28 to 14.00		
		*													
FI		37.78 -	38.78	,	4										
FZP		3 <i>8.78-</i>	39.17.	, ,											
F2 (6)		39.17-	42.50	:								- <u></u>	,		
0		37.78-	-42.50												
G. Con	eglonetate	48.5-	82.18												
<u>B</u> 2	V ?	B2.18 -	83.10												
<u>43</u>		83.10 -	84.10					·							
63		84.10-			·				 						
63P 63 6	<u> </u>	82.18-													
		102.22	2-106.92						· · · · · · · · · · · · · · · · · · ·						

	Quintette Coal Limited
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HOLE, NUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	₹ING	Т	OTAL	DEPTH		CORE SI	ZE	MAF	/ SEC	TION	NUME	ER
QHR8700	3																	***************************************		
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COLLAR ELEVAT	ION	<u> </u>			NOR	TH						E	AST			DRIL	LED	CO	ORE LO	GGED
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EAM	ELEVATION (BASE)	DRILLED I	INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL	/ ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
5/P) 	106.92												
<i>(L</i> ,	pp.	107.71-	108.13		Very h	igh	ash	-)						
KI	sury	108.13	-107.26				,		-					
		<u> </u>	-107,26											
(2) Coa		109.23 - 111.15 -	113.64											
Coa	<u>, </u>	111.15 -	///.26)			1							
۲2		113.64-	114.34				<u> </u>							,
boel),	113.64- 114.54	-115.08											Very hi ash
									-					•
												. :		
						<u></u>								

PROJECT_	GRIZZLY	
DAGE	1 05	2

HOLE N	JUMBF	ĒR	Н	OLE	ANG	LE	CO	LLAR	BEAR	ING	TC	TAL [DEPTH		CORE SIZ	Е	MAP / SECTION NUMBER		
QHR8	3700	04		!	59°			219	0	121.8 St Rot									
						U. T.	. M.	CO	ORD	INA	TES							DAT	E (from /to)
COLLAR E	ELEVAT	ION				NOR	.TH						E	AST			DRILL	. E D	CORE LOGGED
931.6	.7		600	91 ₀ 45	عممح	න්					624	, F//+	60						870604
				G E	OPI	HYS	I C A	<u>L</u> [DATA	4						0 \	/ E R B	URD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH			СОМР	OSITION
1:200	-				4	۰ ا	پ		-	L*	-*								
1:20	W				سا		 ;		~										

* by BPB

						MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL / ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
7 .			,										Significant parting from
E3		13.29 -	15:44										14.16 - 14.86
Ď'-	•												Significant parting from 19.16 - 14.86 V. hi ash.
	'												
FI		37,39-	38.23								;		
F2P		38.23 -											
F2		38.50-	41.60										
Flo	3	41.60-	42.10										
(E)		37:39 -	41.60										
GC	L	48.9 -	78.80										
60	3 2	78.80-	79.10										
621		79.10 -						,					
62		79.36	-8044										Rack aplit near base
G3/	9	80.44 80.84-	-80.84										
63		80.84-	- 82.43										

Quintette Coal	Limited
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PROJECT		
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			<u>'</u>														1701			_ 01	
HOLE N	NUMB	ER	HOLE ANGLE COLLAR BEARIN							RING	TOTAL DEPTH CORE SIZE					MAP / SECTION NUMBER					
QHR	870	04																,			
						Ծ. T	. M.	CO	ORD	INA	TES							D A	ATE	(from /to)	
COLLAR	ELEVAT	ION				NOR	HTH							EAS	T		D R	ILLED		CORE LOGG	ED
						Ţ.										•					
			'	G E	O P I	HYS	1 C A	L I	DAT	4						(OVE	BUR	DE	N	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DE	PTH		co	мро	SITION	
							*														
							l 														
			l	l	1			i .		<u> </u>	1			1	C						

	•					MIN	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
							ļ						
5		102.12-	107.04								\		
KIP		107.04-	10.7.72		K1 up	er zone	107.6	8-108.0	9 -V	ery hia	sh)		
KI	uppul	107.72	- 108.09	,									V. hi ach
KI	lover	108.09	-109.10										V. hi ach Rod oplit nearbone
(KD)		107.72	- 109.10	•									1
KZP		109.10	-113.11	<u> </u>									
(Coa	Q	110.58	-110.64)									
KZ			1/3,83				ļ						
					<u> </u>				···				
Coa	L	114.35	-114.60				·						hi ash.
								· · · ·					
									•				
											· · · · · · · · · · · · · · · · · · ·		
					<u> </u>								



PROJECT GRIZZLY

HOLE N	IUMBE	R	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	Т	OTAL	DEPT	Н	CORE SIZE	MAF	/ SEC	TION NUMBER
QHR 8	700	5		-6	3°			208	3 °			117.	5		St. Rot			
						U. T			ORD	NA	TES			······································			DAT	E (from / to)
COLLAR I	ELEVAT	ION			1'	, NOR	TH							EAS	Т	DRIL	LED	CORE LOGGED
985,0	<u>ئ</u> ــ		(a, O	3 (p 15)	ર ಎ. દ	54					10 23	3827	.89					
				GE	OPI	HYS	1 C A	L I	DATA	Δ					(VERI	3 U R [DEN
\$CALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COM	POSITION
1:200	v				L	<u>_</u>				-	W1						•	
1:20	U				v				~									

* by BPB MINING SECTION INTERSEAM THICKNESS ELEVATION (BASE) TRUE THICKNESS DATE DRILLED AVG. B.C. N. COAL / ROCK RECOVERY DATE SAMPLED SAMPLE TAG No. COMP. LAB No. DRILLED INTERVAL SEAM COMMENTS FI 28.97-29.78 F2P F2 29.78-29.96 29.96 - 32.98 32.98 - 33.54 28.97-32.98 G Cal 40.7-78.61 78.61- 78.77 G2 G3P G3 G3 78.77-79.63 79.63 80.51 80.51 81.95 78.77 - 81.95 97.51-102.47

Quintette Coal	Limited
Quintette Coal	Limited

PR	Oleci	
		/

																	rage		Or
HOLE N	NUMB	ER	Н	OLE	ANG	ΓE	CO	LLAR	BEAR	RING	Ţ	DTAL	DEP.	TH	CORE S	IZE	MAP	/ SEC	TION NUMBER
QHR 8	3700	5																	,
						U. T	. M .	C O	ORD	NA	TES				<u>*************************************</u>			DAT	E (from /to)
COLLAR	ELEVAT	ION			1, .	NOR	TH							EAS	Т		DRILL	E D	CORE LOGGED
						•.						-							
				G E	O P	HYS	I C A	L I	DATA	4	·					0	VERB	URD	EN
\$ C A L E	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FB5	CAL	DIR	SLANT				DEPTI	1		COM	POSITION
															1				
			I		l			l .	I	l	<u> </u>			<u>l</u> .					

	MINING SECTION													
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS		
KJA	1	102.47-103.3	6	4	•)					
KI	upper	103.36-103.73		•					''					
1<1	Cover	103.73-104.94												
ET)	103.36-1049												
K2P		104.94 - 108.77												
(C	Lover)	106.15-106.26												
K2		108.77-109.0	9											
		•												
Coa	٤	109.40-109.4	9									V. hi ash		
				····		,								
					· · · · · · · · · · · · · · · · · · ·		,					.,		
											····			
					· 									

Quintette	Coal	Limited

129.8-130.9

DRILL HOLE SUMMARY SHEET

PROJECT	GRi	2264	
DAGE	1	25	2

HOLE N				OLE	ĄNG	LE	CO	LLAR	BEAR	RING)	Ţ	DTAL	DEPTH		CORE	SIZE	M	AP/SE	ECT	ION NUMBER
QHR 8	370c	06		/en	tića	Ŀ						182	n	5	(£R	of.				
						U. T	. M.	C O	ORD	INA	TES							D A	A T E	(from / to)
COLLAR	ELEVAT	ION)ti	NOI	RTH						E	AST			DR	ILLED		CORE LOGGED
)057.	.87		(0.0	967	41.	GS					6 25	3311.9	<u> </u>					•		870609
				GE	OPI	H Y S	I C A	L 1	DATA	4						0	VER	BUR	D	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEP	TH		co	M P	DSITION
1:200	•		V		V	V	•			T										
1:20			レ		V			!	44											

Note: All pids from 1:200 # Density MINING SECTION DATE DRILLED ELEVATION (BASE) INTERSEAM THICKNESS COAL / ROCK RECOVERY DATE SAMPLED SAMPLE TAG No. SEAM DRILLED INTERVAL COMP. COMMENTS LAB No. EZ 2.5- 3,3 E3P. 3.3-11.8 E3 Very hi ash 11.8 -12.5 FI 44.3-45.2 F2P 45.2-45.6 FZ 45.6-50.5 FLOS 50.5-51.5 44.3-50.5 G Cal 61.6 - 128.1 GZF 128.1- 128.6 <u>G2</u> G3P 128.6-129.8

	Quintette	Coal	Limited
E 3	Quintette	Coal	Limited

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	•	0

					•											PAGE		Or
HOLE N	NUMBI	ER	Н	OLE.	ANG	LE	CO	LLAR	BEAR	RING	TC	TAL D	EPTH	CORE	SIZE	MAP	/ SECT	TION NUMBER
QHRE	3700	76																
						U. T	. M.	CO	ORD	NA	TES						DAT	E (from / to)
COLLAR	ELEVAT	ION		·····	181	$\mathcal{A}_{I}NOR$	TH						EAS	S T		DRILL	E D	CORE LOGGED
						<i>.</i>						-						
_				GE	ОРІ	HYS	I C A	L	DAT	A	!				0	VERB	URD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT 4			DE	PTH		СОМР	POSITION
														1				
]				

	MINING SECTION													
SEAM	ELEVATION (BASE)	DRILLED II	NTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS	
60		4D - m 40		-				-						
3		130.9-13	1											
63 (6) J		128.6-	153.1						:			·		
KIP		165.2-	168.4											
KL	appr	166.4 -											V. hi ash	
KP	appr	167.2 -												
K21)	169.0-1	174,8		(Thui	coal	70.4-	170.6)						
K2		174.8-	176.0											
2 4												·····		
Coal		176.8-1	//./		-		<u> </u>							

Quintette Coal Limite		Quintette	Coal	Limite
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PROJECT GRIZ	フレイ
PAGE /	OF .3

		• • • • • • • • • • • • • • • • • • • •	_															
HOLE V	1UMB	ER	H	OLE	ANG	LE	CO	LLAR	BEAF	NG	T	OTAL	DEPTH		CORE SIZE	MA	P / SEC	TION NUMBER
WHR E	3700	o' <u>7</u>										170	.2	<	St. Rot.			
					•	U. T	. M.	€ 0	ORD	INA	TES						DAT	E (from / to)
COLLAR	ELEVAT	ION			÷Υ	NOR	тн						E	AST		DRI	LLED	CORE LOGGED
1117. (6	5		60	965	عاد	69					ر ا	3131	0.67					870611
				GE	OP	HYS	1 C A	L 1	DAT	4					C	VER	BURD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		сом	POSITION
1:200					V	V	1		1	1	i							· · · · · · · · · · · · · · · · · · ·
1:20	O4	V							V									

					MINI	NG	SEC	TION				
SEAM	ELEVATION { BASE }	DRILLED INTERV	/AL AVG. B.C. N.	TRUE THICKNESS	COAL / ROCK REC	OVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
γ,		70 00										
DZP		7.2 - 7.7 7.7 - 8.2									(from general log)
D2	,	8.2 - 8.7				-						11
D2		7.2 - 8.7	•									
(
E3		32.0 -39.2										Very poor coal-Caue?
		·		·								Very poor coal-Cave? (from general log) Faulted? Water Level
								· · · · · · · · · · · · · · · · · · ·				Foulted? Water Level
2												Faulted? Water Lavel
FI		Q1/4 @p.								,		
F2P		81.64-82.4 82.44-82.										

Quintette Coal Limited
Quintette Coal Limited

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	7	•	21

																					
HOLE 1	1UMB	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	ING	T	OTAL	DEP.	TH	CORI	SIZE		MAP	/ SEC	TION NU	A B E R
QHR 8	3700	7																			
						U. T	. М.	СO	ORD	INA	TES			*					DAT	E (from /	to)
COLLAR	EL EVAT	ION				NOR	тн							EAS	Т			DRIL	LED	CORE L	OGGED
						•		•													
_			·!	G E	O P I	A Y S	I C A	L I	DATA	4							0 V	E R B	URD	EN	· · · · · · · · · · · · · · · · · · ·
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT 4				D E	PTH			сом	POSITION	
	.1	1	1	F					1			l	L	1	1		1 .				

			-	,		MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED IN	ITERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
F2		82.75-8	35,46					·					
Flo	,	85.46-	86.37										
9		81.64 -8											
FIO BCO GI	L	94.0-13	, ,										
61		134.44-1	,										
G2P		134.74-1										1	Low Ash"~ 40%
92		135.00-	135.77								,		
63A)	135.77-	135.91										
KIP KIP		135.91-1	3 7.34										Two hi ash parkhap.
(<u>a</u>)		134.44 -	137.34										/
		134. 44 - 153 <u>91</u> -1	59.44										Vanclean
KIP		159.44-15	59.93							==-			
1					· · · · · · · · · · · · · · · · · · ·		,		<u>-</u>				
1							-						
'	-	·											

	Quintette Coal Limited
27	Quintette Coal Limited

PROJECT	

																	1,701		
HOLE V	NUMB	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	TO	DTAL	DEP	ГН	CORE SIZ	Е	MAP/	S EC1	ION NUMBER
QHR	870	207																	
						<u>υ</u> . τ	. M.	CC	ORD	NA	TES							DAT	E (from /to)
COLLAR	ELEVAT	ION				NOR	TH							EAS	Τ		DRILLEC	O	CORE LOGGED
						•									- ·				
				G E	O P	H Y S	1 C A	L	DAT	A						0	VERBU	R D	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		C	ОМР	OSITION
·-·																	•		
																	•		

						MIN	IING	SEC	TION				
SEAM	ELEVATION { BASE }	DRILLED IN	TERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
KI	upper	15993-	K0.6	7									hi ash.
K	Lower	159.93 - 160.67 159.93	- 162	03					· · · · · · · · · · · · · · · · · · ·				
(KI))	159.93	-/62	.03						-			
K2A)	162.03-16	34.13										
(Co.	ul	162.55-	162.68	<u>)</u>									
ΚZ		1/1/17	1.6			<u></u> .			,				
<u> </u>		164.13-1	65.0	/									
Coal)	165.47-1	65,59										

FORM 79-0850-RO



PROJECT	GRIZZLY
PAGE /	05 2

																1740		91
HOLE NUM	MBER		Н	9 L E	ANG	LE	CO	LLAR	BEAR	RING	TO	DTAL	DEPT	H	CORE SIZE	MAP	/ SEC	TION NUMBER
QHR 87	000	8	Va	esti	cal.				·		/	03.	6		StiRot.		,	
		· · · · · · · · · · · · · · · · · · ·				U. T	. M .	C O	ORD	INA	TES						DAT	E (from /to)
COLLAR ELE	VATIO	N				∙, _t N O R	TH							EAS	Ţ	DRILL	E D	CORE LOGGED
1107.9	19		(0°0	3165	94.0	<u> </u>					ت دما	196	.40					870612
				G E	OP	HYS	I C A	L i	DATA	4					0	V E R B	URD	EN
SCALE DE	EN B	RD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COW	OSITION
1:200			1		~	V			٠.									
			V		~													

	VOTE	: Dean	Pic	cks n	can be	alle	Hed b	u Ka	d joint	5 - 6	paged	Knough rods
					MIN	PKIG	SEC	TION	7		J0	through rods.
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
_												
FI		21.0 - 21.5										
F2P		21.5-21.8										
F2		21.8-24.6										
FLO	en)	24.6-25.5										
<u>(F)</u>		21.0 - 24.6										
2 9 7	gl	31.6-65.1										
	7							i				
41		65.6-66.2										
೧೭೭		66,2-67,0										
ã <u>2</u>		67.0-68.5										
G3P		68.5-69.1										
63 6) 7		69.1-70.0										
(F)		65.6 - 70.1										
7		85,1-89,9										
								•				

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	-	~	

HOLE N	NUMBE	ER	H	OLE	ANG	LE	O	LLAR	BEAR	ING	TO	OTAL	DEP	TH	CORE SIZ	E	MAP / SEG	CTION NUMBER
Q4R8	700	8																
						U. T	. M .	CO	ORD	INA	TES				•		DA	TE (from / to)
COLLAR	ELEVAT	ION				NOR	TH							E A S	τ		DRILLED	CORE LOGGED
				G E	ОРІ	1 Y S	1 C A	L I	ATA	4						0	VERBUR	DEN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	ÇAL	DIR	SLANT 4				DEPTH		COM	POSITION
					<u> </u>								1	1 .	B .			

	MINING SECTION														
SEAM	ELEVATION (BASE)	DRILLED IN	VTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAI	./ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS	
KIP		89.9 - 9	10:8		K1 up,	بره	90.8	3 - 91.	3)						
KI.	pper	90.8-9	1.3		, ,										
KL	ower	91.3-92	-/												
(KI)		91.3-9	2.1												
1K2P		92,1 -	75,2												
K2		95.2 -	96.1						-	 					
															
										·		,			
					<u>-,,,,,</u>										



PROJECT_	6	Rizze	<u>-</u>	
PAGE	1	OF	2	

HOLE V	NUMBE	ER	Н	OLE	ANG	LE	CO	LLAR	BEAF	RING	TOTAL DEPTH CORE SIZE						MAP / SECTION NUMBER			
QHR	870	09										132	.13		Sti Rot					
						U. T	. M .	CO	ORD	INA	TES						DAT	E (from / to)		
COLLAR	EL EVAT	101				NOR	RTH							EAS	T		DRILLED	CORE LOGGED		
<u></u>	.97		0 یں	961	+71.1	, (g					しる3	<u> </u>	3. 4 4	-				870613		
				G E	OPI	HYS	1 C A	L	DAT	4						OVERBURDEN				
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		сом	POSITION		
1:200	レ				L	7	سا		-	س	~				/ 0					
1:20		سا													(Capina))				

	MINING SECTION														
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS			
gr.				<u></u>								-,-,-,-			
Cool		19.64-19.73										Hiash			
FI		19.88 - 20.76													
F2P		20.76-21.16									•				
FZ FL	وريد	21.16-24.57 24.57-25.48 19.88-2 4. 57									· · · · · ·	V. hi ash			
FL FC		19.88 - 24.57													
]	e	33.2-82.0										(G1 eroded?)			
32		82.34-83.49										(G1 erocled?) BTop 1 G2 may be 6:			
33P 33		83.49-84.02 84.02-85.60													
33 O		82.34 - 85,60													
				·											

FORM 79-0850-ROT

PROJECT	
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PAGE	2	OF 2_
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HOLE 1	<u> UMBI</u>	ER	H	OLE	ANG	LE	CO	LLAR	BEAR	≀I <u>NG</u>	T	OTAL	DEPT	ГН	CORE	SIZI	Ξ	MAF	, / SEC	TION NUM	BER
QHR	87	009																			
						<u>U. T</u>	. M.	C O	ORD	INA	TES								DAT	E (from / i	ro)
COLLAR	ELEVAT	ION				NOR	t H							EAS	T			DRIL	LED	CORE LC	GGED
								•													
				G E	OPI	HYS	I C A	L	DATA	A							0 \	/ E R I	BURE	EN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT ∡				DE	PTH			сом	POSITION	
						,		1		1		. ,			ì						

	MINING SECTION														
SEAM	ELEVATION (BASE)	DRILLED 1	NTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS		
5		10 3,39	-/085	3											
KIF		108.83						-					- two tain coals - two wall ash v. hi.		
KI	Lover	10932 110,15.	-110,99										- Two wall ash v. hi.		
&D 521	rppu Lower	110.15 - 110.99- 111.99 -	-110.99 114.62					-	•						
	e	· · · · · · · · · · · · · · · · · · ·					ĸ								
 <2		114,62-						-							
Coal	?	115.90-	- 116.14										V. hi. ash.		



PROJECT_	GRI	224	,
DACE	1	^:	2_

HOLE N	JUMB I	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	ING	TO	TALD	EPTH	CORE SIZE	MA	P / SEC	TION NUMBER
QHRE	3701	0		61.	5°			0	41°	,	/	164.4		St. Rot.			
						U. T	. M.	C O	ORD	INA	TES					DAT	E (from /to)
COLLAR E	ELEVAT	ION)		NOR	TH						EAS	T	DRI	LLED	CORE LOGGED
1100	ا ۔ لو	7	(G)	و ما ا	347	3عا		1			623	<i>ع مه در</i>	13				870615
				GE	OPI	HYS	ICA	L i	TAC	4					VER	BURD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT			DEPTH		COMI	OSITION
1:200			V		V	~				لار	V*						
1:20			レ		V				,·]		•	

	Roz	is only.				*Ca	sing on	ly.				
					MIN	ING		TÍON				
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK		INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
											•	
1	•	32.0 - 32.9								-		
02 02 63) ·	32.9 - 33.4										
02		33.4 - 33.9										
		33.4 - 33.9 32.0 - 33,9										1
€3		66.8-67.2										V. hi ash
FI		87.5-87.9										
F21	2	87.9-88.3						•				
FZ D		88.3-90.5										Thick hi ash parting
D	-	87.5-90.5										Thick hi ash parting in bottom half of
												F2.
GC	yl:	98.4-125.9		·····								
B.		125.9-126.2										
G21	-	126.2-126.6										

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PROJECT_				
PAGE	2	O.F	2	

HOLE V	NUMBI	ER	Н	OLE	ANG	LΕ	CO	LLAR	BEAR	RING	T	OTAL	DEPTH	1	CORE SIZE	MAP	/ SECT	TION NUMBER
QHR &	3701	0																
						U. T	. M .	C O	ORD	INA	TES						DAT	E (from / to)
COLLAR	ELEVAT	ION				NOR	тн						1	EAST		DRILL	. E D	CORE LOGGED
						•												
				G E	OPI	HYS	ICA	L I	DATA	4	•				C	VERB	URD	ΕN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		СОМР	OSITION
						1				<u> </u>						1		

		· · · · <u>-</u> ·				MIN	IING	SEC	TION				- · · · · · · · · · · · · · · · · · · ·
SEAM	ELEVATION { BASE }	DRILLED II	NTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL / ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
G2		126.6-12	27.2										
Sza)	127.2-1	27.B										
SZ		127.8-1	28.8						· · · · · · · · · · · · · · · · · · ·				
G J KIP		125.9- 143.8-1	128.8 49.4										
KIP	,	149.4-15	0.3										
KL		1503-1	51.7										
<2P KZ		151.7 -											
<u> </u>		154,5 -	/25										
	•								:				
	<u></u>												
-													
			·-·-					-		<u> </u>			

Quintette Coal Limited

DRILL HOLE SUMMARY SHEET

PROJECT_	GRIZZLY
PAGE	OF

	$\overline{}$																		
HOLE N	IUMBI	E R	Н	OLE	ANG	LE	CO	LLAR	BEAR	ING	Ţ(JATC	DEPT	Н	CORE SIZE		MAP/	SECT	ION NUMBER
QHRE	570	//		91	0°							121.	5		SERI.				
						U. T.	. M .	CO	ORD	INA	TES							DAT	E (from / to)
COLLAR E	<u>EL EVAT</u>	ION				,N O R	TH							EAS	Τ		DRILLE	E D	CORE LOGGED
FOLL	18.		رود	مر ال	تا. ر و	`					623	5132.	37						870615
<u>-</u>				G E	. O P I	HYS	I C A	L [DATA	4						0 V	E R B	URĐ	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH			COMP	OSITION
1:200			-		V	V				LA	V X								
1:20			1												:	İ			1

* Top 25 m anly

			 			<u> </u>	10b 72		•			
					MIN	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTERV	AL AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
FI		39.3-39.8										
FZP		39.8-40.1									-	
FZP FZ (B)		<u>40.1- 42.8</u> 39.3 - 42.8	,									
(E)		39,3 - 42,8	3									
G C	gL	49.6 - 81.5	-									
Q1		81.5-817										
G2P		81.7-81.9										
GZ		81.9-82.7										
52 50 17		82.7 - 84.1 81.5 - 84.1										
<u>t</u>		81.9 - 82.7 82.7 - 84.1 81.5 - 84.1 100.7-106.1										
KIP		106.1-106.8										
KKKA S	we/	107.3-68.4										
KZP		106. - 106.8 106.8 - 107.3 107.3 - 16 8.4 106.8 - 10 9 .4 108.4 - 10.4	7									
K2		110.9- 111.4	2									•



PROJECT GRIZZLY

HOLE V	IUMBI	ER	H	OLE	ANG	LE	CO	LLAR	BEAR	≀ING	TO	DTAL	DEPTH		CORE SIZE	MAP/	SECT	ION NUMBER
QHRE	970	1/2		9	00						1	83	.3		S4. Ct.			
						U. T	. M.	CO	ORD	INA	TES						DATI	(from / to)
COLLAR E	LEVAT	ION				NOR	тн							AST		DRILLE	D	CORE LOGGED
1116.	581		روی	<u> </u>	90.	3.T					<u>لوع</u> ع	<u> </u>	.54					870617
			_	GE	OP	HYS	1 C A	L	DAT	4			•		0	VERB	URD	ΕN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COMP	OSITION
1:200			V		V	レ			V	レ	V							
		V	-		~													:

						1 I M	1 I N G	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
A .		 .						-			······		
DI		22.30-											
120		- 23.06 -	23.17										
02		23,17 -	23.96				•						
20 2 D) F1		22.30	-23.96										
FI		97.09-	97.80										
FZP		77.80-											
FZ		97.99 -	10 1.73										
F/o F)	ພ	101.73-	102.87)									Vany his ash
\mathcal{E}_{2}		97.09 -	101.73										(roch 4 and)
60	gl	109.2											
СЦ		145.58-	147.69	-	·					~ · · · · · · · · · · · · · · · · · · ·			
GZA		147.69-											
32		147.97.	-148.88										
336	>	148.88											
G3		149.08											

intette Coal	Limited
	intette Coal

PROJECT		
	_	

PAGE ______ OF ____

																		··		·	
HOLE N			Н	OLE	ANG	LE	CO	LLAR	BEAR	≀ING	TOTAL DEPTH CORE SIZE							MA) / SEC	TION	NUMBER
QHR	870	2/2																7.00			
						U. T	. M .	CO	ORD	INA	TES								DA.	re (fro	om / to)
COLLAR	ELEVAT	ION			· · · · · · · · · · · · · · · · · · ·	, N O R	TH							EAS	Т			DRIL	LED	COR	E LOGGED
						•		•													
		·		G E	OPI	H Y \$	I C A	L [DATA	Ā				, , ,			0 V	ER	BURI	DEN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				Đ	EPTH			COW	POSITI	ON
					į														,		
															1.						
				<u></u>						l		<u> </u>	<u> </u>				- 1				

					MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
7		166.44-170.82			<u></u>							
KIP		170,82-171,2	+									
Klu	ppr	171,24-171,48										
KI	ower	171.48-172.21										•
(ED)		171.24 - 172.28	\$									hiash)
KZF Co.		172.28-174.44					-	· · · · · · · · · · · · · · · · · · ·				
(Ca	Q	172.53-17267)									
K2	, •	174.44-175.2	_									
•												
Coal		175.84-175.9	•									
	····											
								······································				
-												
			<u> </u>									



PROJECT_	Si	132	Ly.
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HOLE N	IUMBE	₹R	H	OLE	ANG	LE	CO	LLAR	BEAR	ING	TC	TAL D	EPTH	CORE SIZE	MAI	/ SECT	TION NUMBER
QHR	870	7/3		- 4	8			20	8 *		/	43.7	7	SÉ'Rot			
U. T. M. COORDINATES														DAT	E (from / to)		
COLLAR E	ELEVAT	ION				N O R	TH						EAS	T	DRIL	LED	CORE LOGGED
1041.	15		روه	7107	2&·,	18					1,23	<i>(4,4</i> ,4,	31				870618
				G E	OPI	H Y 5	1 C A	L I	DATA	Ą					OVER	BURD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT			DEPTH		СОМР	OSITION
1:200			1		•	~			L	u	レ						
1:20		レ	١		レ											•	

						MIN	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
<i>,</i> — ,											:		
FI		<u>56.30 -</u>											
F2F			57.34										
FZ		57.34-	-60.33									·	
FL	ک	60.33.	-61,04										Hiash wal w. rock
\bigcirc		56.30	60.33										
FL GC	e	68.1-	103.68										
61			103.99										
62			- 104,22						F				
G2		104.22											
G3.6	>		105.64			_							
63			-107.07										
63			107.07										
J			128.74										
			, /										

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PROJEC	T		
PAGE	2	O.F.	2

																170-				
HOLE N	JUMB I	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	≀ING	TOTAL DEPTH CORE SIZE					MA	MAP / SECTION NUMBER			
QHR 8	970	13																		
						U. T	. M.	CO	ORD	INA	TES			·			DAT	E (from / to)		
COLLAR	ELEVAT	ION				,NOR	TH							EAS	ī	DRI	LLED	CORE LOGGED		
						·•														
				G E	O P I	HYS	I C A	L	DATA	A					(OVER	BURE) E N		
SCALE	DEN	BRD	LSĐ	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	\$LANT ∡				DEPTH		сом	POSITION		
-																				
4				,	1 7		,	4							l .	a b		,		

				·	MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
KIP		12 <i>8.74-</i> 129.23										
Klu	ppy	129.23-129.8	6									
KI	oines	129.86-131.01										hiash coal + rockplit
K2P		129.23-131.0										
(Car		131.78-131.83										
		<u> </u>								·		
K2		134.25-134.98										
Cool		135.33-135.59										V. hi ash
								,				
									<u> </u>			



PROJECT C	PRIZZ	/y
PAGE	OF.	2

HOLE N	IUMBI	ER	Н	OLE	ANG	LE	СО	LLAR	BEAR	ING	T	JATC	DEPTI	Н	CORE SIZ	E	MAP/SEC	TION NUMBER
QHRE	870	14		90	0	*					2	07.	4m		S! Rotur	7		
						U. T	. M.	C O	ORD	INA	TES				,		DAT	E (from / to)
COLLAR E	ELEVAT	ION			'	NOR	TH							EAS	r		DRILLED	CORE LOGGED
115710	00		600	36.77	13.	<u>(5</u>					La	<u> </u>	.30				0	870620
				G E	ОР	HYS	I C A	L I	DAT	4						0	VERBURG	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		сом	POSITION
1:200			V		レ	~												
1:20			~		V											İ		

* No DEviation

					11/17	MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED IN	ITERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
								_					
E3		34.9-3	5.2										
FI		67.5-6	8.5									 	
F24	•	68.5 - 6	9.1										
FZ		69.1-7	74.0							•			
FL	2~)	74.0	74.8		,								V. hi ash
FL.		67.5 -	74.0										
G 0	gl	85.0-1	48.7										
GI		148.7-1	49.2										
GZA)	149.2-1											
62		149.6-1											
<u>631</u>)	150.9-	152.6										
<u>G</u> 3		152.6-	154.6										
G3 (S)		148.7 -1	54.6					<u> </u>					



PROJEC	T			
	9			
DAGE		0.5	2	

HOLE 1	NUMBI	ER	Н	OLE	ANG	LΕ	CO	LLAR	BEAF	RING	T	DTAL	DEP	TH	CORE	SIZE	MA	P / SEC	TION NUMBER
QHR	870	14																	
						U. T	. M.	CO	ORE	NIC	TES							DAI	E (from /to)
COLLAR	ELEVAT	NOL			·	NOR	тн							EAS	T		DRI	LLED	CORE LOGGE
						•		•											
				GE	ОР	HYS	I C A	L	DAT	A	•					C	VER	BURI	DEN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DE	PTH		сом	POSITION
			}																
												·							

						٨	N I N	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/	ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
1	/	181.6-	190.1											
KIA) 	190.1 -	191.0											
Kly	ppy	191.0-	191.8							·				
KIL	Pfy own,	191.8-	193.7											upperpat hi ash
		191.0 -	193.7									-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
K2/	٥	193.7-	198.3		**************************************									
<u>K2</u>		198.3 -	- 199.5	-	 					• 				
	· · · · · · · · · · · · · · · · · · ·													
														
														

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PROJECT	GR	122	Ly	
DACE	,	0.5	í	

HOLE V	IUMB	ER	H	OLE	ANG	LE	O	LLAR	BEAR	RING	TO	DTAL	DEPTH		CORE SIZE	M	AP/SEC	TION NUMBER
QHRE	370	15		9	o°							45	M		54"Rot.			
						U. T	. M .	CO	ORD	INA	TES						DAT	E (from /to)
COLLAR E	LEVAT	10N			`i	,N O R	TH						Е	AST		Di	RILLED	CORE LOGGED
1079	<u> 99</u>		مدا	845	09.5	್ವ					(42)	345Lc	.49					870621
			_	GE	OP	HYS	1 C A	L I	DAT	A					,	O V E	RBURD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	5LANT ∡⊊				DEPTH	Ī	сом	POSITION
1:200			V		V	V			v	V	V							
1:20*		V	V		1				V								-	

* J See	m only		OTE:	DRILLER	's DE	PTH = 1	6.7 m	: LOG	GER'S .	= 45n	1
					I ľ N G	SEC	TION				
SEAM (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
G Cal	0-7.7										
G2 ?	7.7 - 9.7			0]					Too thick
G3/P	9.7- 10.8	ا ج	pick 1			<u> </u>					
ഒട	10.8-12.1		Ge	100.]		,			
63 (G)	7.7 - 12.1] 	•				
子	26.10-31.14										
KIA	21.14 - 31.81					 				**	
Kl. upper	31.81 - 32.19					<u></u>					Pack coally parky
K1 Cower	32.19 - 33.44					 					Incl. coally parking and upper rock solit
KD	31.81 - 33.44					<u> </u>					and worse out malit
K2P	33.44-36.47										The state of the s
Cool	34.08-34.20				:	-					
K2 P (Conl						<u> </u>			•		
K2	36.47-37.20					<u></u>					
KLOW	37.20-37.82					\vdash					hish coalt rad post
				· · · · · · · · · · · · · · · · · · ·		<u> </u>					part part



PROJECT GRIZZCY

HOLE N	NUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAF	RING	1	OTAL	DEPT	H	CORE SIZE	MAI	/ SEC	TION NUMBER
QURE	3701	6		-5	50			03	'S'°			146.	6 n		Sir Rot.			
						U. T	. M.	CO	ORD	INA	ATES	,					DAT	E (from /to)
COLLAR	ELEVAT	ION			'l	NOF	TH							EAST	т	DRIL	LED	CORE LOGGED
1071	99		60	اجر ا	. 8FC	.3 Le					62	362	1 .55					870622
		•		G E	OP	HYS	I C A	l i	DAT	A					O	VER	BURD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	\$LAN ≄	ī			DEPTH		сом	POSITION
1:200		4	V		1	レ	v		レ	<u>ا</u>	1							
1:20		V	レ		V				V									

			· · · · · · ·			MIN	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
													
D_		9.39-	10.83										
FI		19 03.	- 70.57				-					·····	
520			70,75										
F2_		70.75	-73.86										
FL	9w		-74.50				1						
3 Cg	2		73.86		<u></u>	-							
3 L			-108.07 -108.23					-					
<u>52/</u>			3 -108.6										
<u>G2</u>			-109.4c	1 1									
63P		-	<u>-/10.94</u>			-							
63 G		=	-111.00 - 111.00]		<u> </u>			1	<u></u>	
		egatelinist # T											

PROJECT	
\sim	

																	
HOLE N	VUMB I	ER	Н	OLE	ANG	LΕ	CO	LLAR	BEAR	RING	T (DTAL	DEP	TH	CORE SIZE	MAP / SE	CTION NUMBER
QHR8	701	6															
						U. T	. M.	C O	ORD	INA	TES					DA	TE (from / to)
COLLAR	ELEVAT	ION			'i 	NOR	TH							EAS	T	DRILLED	CORE LOGGED
						•											
				G E	OP	HYS	I C A	L 1	DAT	4	<u> </u>		· · · · · · · · · · · · · · · · · · ·			VERBUR	DEN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	S LANT				DEPTH	co	MPOSITION
			•												•		
							-]		
					•			•				_					

						IING		TION				
SEAM	(BASE)	DRILLED INTERVA	L AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
			_								····	
\mathcal{I}		126.15-130.59)								 	
CIP		130.59 - 131.30			. ,,,,,							
(0		131.03-131.12										
<1 u	ppe	131,30-131.6										
410	mer	131.67-132,5										
<u>(S)</u>		131.30-132.5	3									
<u> </u>		100	_									
20		132.58-136.25 134.36-134.44	<u> </u>									•
(2P (Coo K2	<u> </u>	136.24-136.9	7	-				.				
Cons		137.12 - 137.18										
Coal	9	137.46-137.18	3									V. hi ash.
							 -{				,	



PROJECT	GR	1226	Y
PAGE	1	OF	2

HOLE N	ІИМВІ	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	ING	Т	OTAL	DEPT	Н	CORE SIZE	. MAP,	/ SECT	TON NUMBER		
QHR 8	170	17		C	70°							164	.8 m		St"Rot					
						U. T	. M.	C O	ORD	INA	TES			٠			DAT	E (from / to)		
COLLAR ELEVATION ,NORTH												EAST DRILLED								
1019	1.93)	رون	<u>959</u>	٠, ١	,5					(₂)	3801.4	ما د							
				GE	OPI	H Y S	1 C A	L	DATA	4					0	V E R B	URD	EN		
SCALE DEN BRD LSD HRD GAM NEUT FBE FBS CAL DI										DIR	SLANT				DEPTH		COMP	OSITION		
1:200			V		<u>اسا</u>	V	سا		レ	レ	v									
1:20		V			烂		v		<u>ب</u>											

	MINING SECTION EAM ELEVATION DRILLED INTERVAL AVG. TRUE B.C.N. THICKNESS COAL/ROCK RECOVERY INTERSEAM DATE DATE SAMPLE COMP. COMMENTS THICKNESS DRILLED SAMPLED TAG No. LAB No. LAB No.														
SEAM	ELEVATION (BASE)	DRILLED INT	TERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS		
													Hi ash - Significant		
<u> </u>		44,09-4	6.63					`					Hi ash - Significant parting from 45.37 to		
													45.99		
E3p		46.63 - 49	1.51				·								
E4		49,51-5	0.11												
								· · · · · · · · · · · · · · · · · · ·				·			
FI		73,34 - 1	74.3/												
F2F	>	74.31 - 7													
F2		74.66-7	02.8												
FQC)	73,34-	78.Sd												
Q C	gl	94.7-1	10.3		· · · · · · · · · · · · · · · · · · ·										
GI	9.	110.3-110	2.7	>	(Alot	61.							hi anh ?		
													<u>-</u>		
G2A		1107 - 116	6,73	×	(Not	62P		·					Mostly conglomeral		
G2 G3/													, J		
લ્ક્ર/	2	117.85-	118.51	/											

Quintette Coal Limite	d
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PROJEC	T			
PAGE	2	OF	2	

																		
HOLE N			Н	OLE	ANG	LE	CO	LLAR	BEAR	₹ING	T	OTAL	. DEPT	ſΗ	CORE SIZE	MAP/	SECT	TON NUMBER
QHRE	3701	17																
		7				U. T	. M.	CO	ORD	INA	TES				· · · · · · · · · · · · · · · · · · ·	3	ATE	E (from /to)
COLLAR	EL EVAT	ION			,	NOR	TH							EAS	Т	DRILLEC	5	CORE LOGGED
																		f
				GE	OPF	ΗΥѕ	I C A	L	DATA	Ā	<u> </u>				C	OVERBU	R D	ΕN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT 4				DEPTH	(OMP	OSITION
			'	!			ı '		'									
							i											

					MIN	ING	S E C	TION		· · · · · · · · · · · · · · · · · · ·		
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
α		110 51 - Dani					-				····	
S2 G)		118.51-120.06										62 463
					.,		-					<u> </u>
7		137.65-142.72					-		\			,
KI	upper	143,52-144,24					-					Very hi ash
KI	Come	144,24-145,4										
KI)	143,52-145.4		· · · · · · · · · · · · · · · · · · ·								
K2P		145.44-150.01										
(Con	<u>{</u>	147,03-147,29)	-								
K2		150.01-150.8	<u> </u>									

FORM 79-0850-R01



PROJECT_	GR.	1220	_4
PAGE	/	Of	2

HOLE NUMBER HOLE ANGLE COLLAR BEARING												DTAL	DEPT	Н	CORE SIZE	MA	P / SEC	TION NUMBER
QHR 87018 -60° -086°											1	23	.0 m		Sti Retan			
	U. T. M. COORDINATES															DAT	E (from /to)	
COLLAR	COLLAR ELEVATION NORTH EAST														DRI	LLED	CORE LOGGED	
978.03 6095705.40											1020	kCP3	.48					870624
GEOPHYSICAL DATA													' (VER	BURD	EN		
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COM	POSITION
1:200			~		~	U	1		V	س	<u></u>	·						
1:20		レ							سا							t 		

MINING SECTION													
SEAM	ELEVATION [BASE }	DRILLED IN	TERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP.	COMMENTS
_ <i>E</i> 3		21.8-24.	.1.										hi ash in parting
ε		,											, ,
			, ,						:				
FID	,,	4200 4	2.44			i							
F2/	a . <i>i</i>	47.08-4	7.99										
	<i>U1</i>	47.99 - 4						-					C
F2	12	4821-5	0.20				<u></u>						FAULTINF 2 - cuts
Fol													Fr & regreats thall
FAUL	T	50.20		CLA	NGE	70 49.6	<i>.</i> سا			!			F seem, including
	72					-5P.	:						FAULTINF2 - cuts From regreats full Freeze including Splits in roof.
FI		50.43-5	1.09										
F2P		51.09 - 5	1.41	_									
F2		51.41-5	5.04										-
FLa	ω	55.04-5											Very hi ash
E)	50.43-55	5.04										•
													

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PROJEC.	Γ <u></u>		_
PAGE	2	OF 2	

HOLE N	HOLE NUMBER			HOLE ANGLE COLLAR BEARING						T	TOTAL DEPTH CORE SIZ				ZE MAP / SECTION NUMBER			
QHR 8	3700	18																
						U. T	. M.	C O	ORD	INA	TES						D A	TE (from /to)
COLLAR		ŅORTH								EAST					DRILLED	CORE LOGGED		
								•										
				GE	ОРІ	HYS	I C A	L	DATA	4						0	VERBUR	DEN
SCALE	E DEN BRD LSD HRD GAM NEUT FBE FBS CAL DIE					DIR	SLANT				DEPTH		COMPOSITION					
		,											*					

						MIN	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
GI		74.25	-74.86		•								hi ash w. 2 patings
621	2	74.86-	74.99		 							·	
G ₂	`		<u>-76.31</u>					•	· · · · · · · · · · · · · · · · · · ·				
63/ 63 (B)			- 77.04 78.25									 -	
(g)			78.25										
		05 11	~~~~					-	-	-			
J	Δ		98.46										
KI	()		- 98.79										V. hi ash
KI	auter .	98.79-	- 99.80									· • · · · · · · · · · · · · · · · · · ·	
KI	<u> </u>		- 99.80 104.42										
Con	!		101.49										
K2		104.47	2-105.	17									1 1 6000 70 0007



PROJECT SRIZZCY	
PAGE OF	

HOLE N	IUMBE	ER	Ĭ	OLE	ANG	LE	CO	LLAR	BEAR	ING	TO	DTAL	DEPT	H	CORE SIZE	MAP/	S E C 1	TON NUMBER
QHR 8	370	19		<u> </u>	o°			~ 0	257	0		110	.7/	1	SZ'Rot.			
	U. T. M. COORDINATES														DATE (from / to)			
COLLAR ELEVATION ,NORTH											! }			EAS	T	DRILLE	D	CORE LOGGED
9110.10 4095531.26										1024	ક્રાજે.	70					870625	
GEOPHYSICAL DATA														OVERBURDEN				
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COMP	OSITION
1:200			١		١	<u></u>	<u></u>		۱	١	<u>ــــ</u>							
		4	1		١				-							-		

						MIN	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED IN	NTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
EЗ		17.1- 1	8.3										V. hi ash w.pathing
F1		40.73-4											
F2P		41.10-4	44.87										
F2 FL	> ~↓	<u> 44.87-4</u> 40.73-4											V.V. hi ash.
GI		63,68 -6											Top. V. hi ach
62P		64.64-6 6 4.86-6											
63F		65.72 - 6 66.34-1			· · · · · · · · · · · · · · · · · · ·								
63 (B)		63.68-											

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PROJECT		
	7	0

			•																	
HOLE 1	NUMBE	R	H	OLE	ANG	LE	CO	LLAR	BEAR	RING	T	TOTAL DEPTH CORE SIZE						MAP / SECTION NUMBER		
82HR	<u>870</u>	19																		
		•				U. T	. M .	CO	ORD	NA	TES							DAT	E (from /to)	
COLLAR	ELEVAT	ION				,NOR	тн							EAS	T		DRILL	. E D	CORE LOGGED	
						1														
				G E	OPI	H Y S	I C A	L	DAT	A						0	VERB	URC	EN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPT	Н		сом	POSITION	

·						ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
T		85.09-89.32					-					
KI)	89.32-89.87										
KI 4	over	89.87-90.51									:	hi ash.
KI	over	90.51 -91.57										
	<u> </u>	89.87 - 91.57					-					
K21	2	91.57-96.34					-					
(Co.	l	91.57-96.34)				-					
K2		96.34 - 96.94		•								
				 								
Coa		97,16-97,25										
_				·········								
	· · · · · · · · · · · · · · · · · · ·											



PROJECT_	GRIZZEY
PAGE	1 05 3

HOLE N	UMBE	R	H	OLE	ANG	LΕ	CO	LLAR	BEAR	ING	(Z)T(OTAL	DEPT	Н	CORE SIZE	MAF	/ SEC	TION NUMBER
QHR8	702	20		- 3	60		~~	210) "		2	244.	0	_	5'4" Rot			
U. T. M. COORDINATES												DATE (from / to)						
COLLAR EL	DLLAR ELEVATIONU NORTH Z											EAS	т 3	DRIL	LED	CORE LOGGED		
797.8	797.81 6096256.36									621	1879	.72					870701	
				G E	OPI	HYS	I C A	L I	DATA	4					0	VER	BURD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COM	OSITION
1:200			レ		ر	~	<u> </u>		ب	レ	سب							
1:20		0	<u>ا</u>		\				<u> </u>									

SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
								•				1 1 1
<u>C</u> _		53,52-54.92										Lowe & hiash.
\mathcal{B}_{-}		74.4-75.2										V. hi ash
•											, , , , , , , , , , , , , , , , , , , ,	
DI		123.88-124.67										
D2P		124.67-124.83										
12		124.83-126.91										
12 D		123.88-126.91										
		•					·					
EI		140.77-141.08	· •									
E2P		41.08 142.06	,				-					Significant parking
£2		142.06 - 143.14	V									
E36												
		143.14 - 143.44 143.44 - 145.46										
		142.06 - 145.46										

PROJEC	- I			
DACE	2	0.5	2	

HOLE N	NUMBI	ER	Η	OLE	ANG	LE	CO	LLAR	BEAR	ING	-	OTAL	DEP1	ГН	CORE SIZE	: [MAP,	/ SECT	TION NUMBER
QHRE	370	20								1									
						U. T	. M .	C O	ORD	INA	TES							DAT	E (from / to)
COLLAR	ELEVAT	10N				,N O R	ТН						. ,	EAST			DRILL	E D	CORE LOGGED
						1													
				GE	O P I	HYS	I C A	L	DAT	4						0 \	/ E R B	URD	ΕN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLAN				DEPTH			COMP	OSITION
											1								
		ľ			<u> </u>			1	1			1							·

				•	MIN	ING	SEC	TION				
EAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
FI		163.03-163.66										
2ρ		163.66-163.90	l 1									
F2 (F)		163.90-167.08					-	***************************************			<u></u>	
<u>E)</u>	· · · · · · · · · · · · · · · · · · ·	163.03-167.0 <u>8</u>					-					
31		204.00 - 204.00										
\$2P		204.00-204.00										
32 53P		<u>204.00 -204.71</u> 20 4.71- 205,50	, ,				-	<u> </u>			· · · · · · · · · · · · · · · · · · ·	
33		205.50-206.74					-					
(3)		204.00-206.74										
~		221.28-226.10					<u>-</u>					
٧	\	226.10-226.59										
	\ 	226.59-228.29										hi ach in upperpa



PROJECT TRANSFER
<u>.</u>

PAGE _____ OF __ HOLE NUMBER HOLE ANGLE COLLAR BEARING TOTAL DEPTH CORE SIZE MAP / SECTION NUMBER 168.8 m 51"Rot. de 900 QHR STOZI U. T. M. COORDINATES DATE (from / to) COLLAR ELEVATION NORTH EAST CORE LOGGED DRILLED 6096160.32 1572 82 626569.25 GEOPHYSICAL DATA OVERBURDEN SLANT SCALE DEN BRD LSD GAM NEUT FBE FBS CAL DIR HRD DEPTH COMPOSITION 605.1 1 **/** 1:20 111

41	JOTE -	All picks	3	from 6	== Long	2 Space	e Jensix	y clex	end long	<u> </u>	+ gr	eat!
									l .	,		
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
									u u			
Δı	$\mathcal{A}(\Sigma)$	46.65-47.42										
١٠٠		10183 (7.70							-			
EI		67.40-67.92										
EZP		67.92-68.61										
E2		68.61-70.18									•	
€3P	1	70.18-71.94										\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
EЗ	1	71.94 - 72.47										V. high ash
(No		le coal)									••••	o manasa.
											. ,	
				į								
							,				: 	
FI		95.91-96.27										Wiash "
F2P	`	96.27-96.74										Thickness may be affe
F2		96.74-100.11										by root join
F2 (F)		9591-100.11										

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PROJECT	 	
	_	

																FAGE		Or
HOLE N	JUMB F	Ē R	Н	OLE	ANG	LE	CO	LLAR	BEAR	≀ING	T(JATC	DEPT	H	CORE SIZE	MAP/	SEC	TION . NUMBER
QHRE	370	21																
						U. T	. M.	CO	ORD	INA	TES						DAT	E (from /to)
COLLAR	ELEVAT	ION				':NOR	TH							EAS	T	DRILLE	D	CORE LOGGED
				GE	OPI	HYS	I C A	L '	DATA	Ā					C	VERBI	J R D	EN
·SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		сомі	OSITION
					'		,											

						MIN	ING	SEC	TION		· · · · · · · · · · · · · · · · · · ·		
SEAM	ELEVATION (BASE)	DRILLED II	NTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
91		126:70-1	27.10										
920		27.10-1											
32		2-7.62-1	28.30								-		
<u>ୟ3</u> ନ ଜସ		128.30-											
લ્ડું		126.20-							,				
J		146.20-1	5001										
KIP		150.86-	152.12										
KI KZP		152.12-							····				
<u>K2P</u> K2		152.99-	154.06 -154.96	•							:		
	<u> </u>												
!													

FORM 79-0850-RO1



PROJECT_	TRANSI	FER
PAGE	1 0	. 2

HOLE N	IUMBI	ER ·	Н	OLE	ANG	ĻΕ	CO	LLAR	BEAR	RING		ΤΟΤΑΙ	DEPT	ГΗ	CORE	SIZE	MA	P / SEC	TION NUMBER
QHR &	70z	ລ		90	υ						1	144.6	,		SER	<i>i</i> t.			
						U. T	. M .	C O	ORD	INA	ATE	3						DAT	「E(from/to)
COLLAR E	EL EVAT	ION			i '	,NOR	TH						···	EAS	S T		DRI	LLED	CORE LOGGED
15%0.	رره)	رو (<u> </u>	8O.	₹.3	5				لي:	<u> 205 (</u>	\8.1º	Z					870703
				G E	OP	H Y S	I C A	L	DAT	4							VER	BURI	DEN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLAN	T			D E	PTH		сом	POSITION
1:200	/				/													<u> </u>	
1120			/																

					MIN	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTERV	AL AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
	,											
E1 E2P		19.8-20.7										
		20.2 - 208	3							•		
E2		208-24.4										V. high ash
E2 E3P E3		24.4 - 26.8	L									<u> </u>
E3		26.8 -28.2	- /									Good Coal.
•											- · · · · · · · · · · · · · · · · · · ·	
1												·
												•
FI		50.06-50.7	8									
F2P		50.78-51.0	/									
F2		51.01-54.	83	<u> </u>								
<u>(E)</u>		50.06-54,8	33		-							
	·											
GI		84.10-85.	20	-	1	-						
G2P		85.20-85.	2	<u> </u>								FORM 70 - 0850 - 0

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PROJEC	T	
	2	 5

NUMBER
(1.5)
/
om/to)
RE LOGGED
ON

	MINING SECTION											
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL / ROCK RECOV	ERY INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS	
B2		85.32-87.22										
G3P		87.22-87.55										
ત્ર		8755-89.0	7									
63 ©		87.22-87.55 87.55-89.09 84.10-89.09	,									
J		105.87-110.73										
KIP		110.73 - 111.59										
KI		111.59-112.79										
K2P		112.79-113.73										
K2		112.79-113.73	,									
							<u></u>					



PROJECT_ / K	ANSFER
PAGE	o. 3

HOLE V	UMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	ΤC	TALI	DEPTH		CORE SIZE	1	MAP / SE	CTION NUMBER	
Q4883	1023	5		92	2			_	,		/	71.0			SÉ"Rot.				
U. T. M. COORDINA											TES						DATE (from / to)		
COLLAR ELEVATION NORTH										EAST						RILLED	CORE LOGGED		
1601.62 6095983.11								620	O 4 36	2.72					870704				
				GE	OP	HYS	1 C A	L !	DAT	A						OVE	OVERBURDEN		
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT 4				DEPTH		CO.	MPOSITION	
1:200	/				/	Ý													
1170		✓	/														•		

					MIN	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
ŊΙ		54.94 - 55.56										
D2P		55.76 - 55.71										
ĎZ.		55.71 - 56.10										
Ď3ρ		56.10-57.08										
D,3		57.08 - 57.32				<u> </u>					· · · · · · · · · · · · · · · · · · ·	V. high ash
D4P		<i>57.32 - 57.89</i>										1.0
04		57.89-58.50					·					high ash
,												,,,
E1 .		73.05 - 73.51						•				high ash
E2P		73. <i>51 -</i> 73.98										
E2		73.98 - 15.50										high ash
<u>E</u> 3P		75.50-17.9 <i>4</i>								и		
<u>E3</u>		77.94-79.64										mineable
							 					•
FI		97.76-98.40										

PROJECT	
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····			· .													PAGE		OF
HOLE V	1 U M B F	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	≀ING	TC	JATC	DEP.	TH	CORE SIZE	MA	P / SEC	TION NUMBER
QHRE	<u> 370.</u>	23																
						U. T	. M.	C O	ORD	INA	TES						DAT	E (from / to)
COLLAR I	ELEVAT	ION				/N O R	тн							EAS	T	DR	ILLED	CORE LOGGED
						7												
				GE	O P I	HYS	I C A	L	DATA	A					(OVER	BURD) EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT 4				DEPTH	!	COM	POSITION
			'	'			, !	1					,					
																	,	

					MIN	ING	SEC	TION			\ <u>.</u>	
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N,	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB ·No.	COMMENTS
							-				,	
F2P		98.40-98.67										
F2 E)		98.67-102.79										
E		97.76-802.79			· · · · · · · · · · · · · · · · · · ·							
~ .	•	100										
GI		128.92-/29.98										
62P		129.98-130.10					-					
<u>62</u>		130.10-130.91						•				
53 <i>P</i>		130.91-131:36										
<u>G</u> 3		131.36-132.51										
ও 3 (G)		128.92-132.51										
<u></u>		16.0										
I_		148.04-152.68										
KIP		152.68-153.39										
<u> </u>		153.39-154.35	<u>-</u>									
		,										

Quintette Coal Limited	Ī
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PROJEC	T	 	
5.46.5	2	 ~	

HOLE	NUMB	ER	Н	OLE	ANG	LΕ	CO	LLAR	BEAR	RING	Т	OTAL	DEP	тн	CORI	E SIZE		MAP.	/ SECT	ION NU	MBER
QHR	970	23																			
						U. T	. M.	CO	ORD	NA	TES								DAT	E (from	/to)
COLLAR	ELEVAT	ION				NOR	тн							EAS	Т			DRILL	E D	CORE	LOGGED
						:														,	
				G E	OPI	H Y S	I C A	L I	DAT	Ą	·						0 V E	R B	URD	ΕN	:
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				D E	PTH			COMP	OSITIO	N
			1																		
															1						
		<u> </u>						<u> </u>		1	1	l	I	1	2						

					MIN	ING	SEC	TION				
EAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
(2/2		154.35-15668								,		
2P	<u></u>	154.35-156,68 155.40-155.66)									
<2		156.68-157.84					-					



PROJECT	TR	MUSI	FER	
PAGE	1	0.5	\mathbf{c}	

																I A G L _		Or
HOLE V	1UMB1	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	₹ING	T	OTAL	. DEPT	Ή	CORE SIZE	MA	P / SEC	TION NUMBER
QUR 87	1024	r	<u> </u>	90	<u>) </u>	<u> </u>		<u> </u>				128	3.5		Stillet.			
				<u></u>	<u>-</u> -	<u>U. T</u>	. M.	<u> </u>	ORD	NA	ATES						DAT	E (from / to)
COLLAR	ELEVAT	ION	<u> </u>			NOR	(TH							EAS	Т	DRI	LLED	CORE LOGGED
1564	.25	>	60	960:	<u>، ما 2</u>	86				<u> </u>	45	1507	12,80	<u>}</u>				870705
<u></u>				G E	: O P I	HYS	1 C A	<u>L </u>	DATA	Α					C	VER	BURE	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COW	POSITION
1,200																<u> </u>		
1:20			1															

						M I	NING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED IN	ITERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/RO	CK RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
EI	7	19.3 - 19.8	3)
62P	Stown	19.8 - 20.											Jan w who
EZ E3P	1	<u>20.4 - 22</u> 22.7-25.											Spin sin
<u> 53</u>		25.57-26	.78										
			v			_							Groad Coal.
FI		40.00											
F2P		49.29 - 4 49.70 - Si	7.70 0.14					-					
E 2		50.14-5	3,30	,									
		49.29 - 5	3.30			····							
G1 62P		87.55 - 8	38.64										
7211		88.64-8	18.80										



PROJEC	T	RAWS	HER
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HOLE N	IUMBE	ER .	Η	OLE	ANG	LE	CO	LLAR	BEAF	RING	Т	OTAL	DEPT	H	CORE	SIZE	MAP	/ SEC	TION NUMBER
QHR	<u> 370</u>	24	·																
					,,	U. T	. M.	CC	ORD	INA	TES							DAT	E (from /to)
COLLAR	ELEVAT	ION				; NOR	TH							EAS	Т		DRIL	LED	CORE LOGGED
						:		•											
				G E	O P I	HYS	ICA	L	DAT	4					· · · · · · · · · · · · · · · · · · ·	0	VERE	URD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEP	ГН		COMP	OSITION
<u> </u>															•				

		1		•	MINI			TION				
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL / ROCK RE	COVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
32		88.80-89.80		:								
53/		89.80-90.37	2									
63 6)		89.80-90.3; 90.37-91.54 8755-91.54							***			
7.0		107.12-112.00	70	hably	rineable ether.							
KIP KI		112.60-112.43 112.43-11 2. 56		400	other.							Con tamis some coa
K2P K2		113,56-114.16										
*		114.16-113.19										
						•	,					



PROJECT_	TRANSFER	
0.4.0.5	1 0" -	

HOLE N	IUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	ING	TC	TAL	DEPTH		CORE SIZE	МА	P / SEC	TION NUMBER
QHR87	025										11	0.0			5 14" Rot			
						U. T	. M.	CO	ORD	INA	TES						DAT	E (from / to)
COLLAR E	ELEVAT	ION			,ı	NOI	RTH						E	AST		DRI	LLED	CORE LOGGED
1585.	04			609	5957	. 56					620	647	.17					870707
				G E	OP	HYS	I C A	L I	DAT	4		• "				OVER	BURC	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COM	POSITION
1:200	\				/	$\overline{}$												
1:20		>	>												4.5	Ì		

					MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL / ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
0B		0.0-4.5					·					
FI		31.49 - 32.14										
F2P		32.14 - 32.29										
F2		32.29-36.20										
E		31.49 - 36.20										
											·	
GI		64.99-66.04			:		- · · · · · · · · · · · · · · · · · · ·					
<u> 62P</u>		66.04-66-41		-81				•				Contains coal parting
<u> 42</u>		66.41-67.50	· · · · ·			:						, 0
G3P		67.50-67.92										
<u>G3</u>		67.92-69.23	···									
9		64.99-69.23										
								-				

Coal Limited

PROJECT	TRANSFER
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Quintette Coa	i rivilited				PAGE2	OF <u></u>
HOLE NUMBER	HOLE ANGLE	COLLAR BEARING	TOTAL DEPTH	CORE SIZE	MAP/SEC	TION NUMBER
QHR 87025		,				
	U.	T.M. COORDINA	TES		DAT	E (from /to)
COLLAR ELEVATION	, , NO	RTH	EAS	Τ	DRILLED	CORE LOGGED
	;					
	GEOPHYS	ICAL DATA		0	VERBURD	EN
SCALE DEN BRD	LSD HRD GAM NEUT	FBE FBS CAL DIR	SLANT #	DEPTH	COM	POSITION

						MIN	IING	SEC	TION			 	
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY		DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP.	COMMENTS
L		89.60-	95.62										
KIP		95.62 -	96.61										contains coal parting
KI		96.61-	97.92										/)
KZP		97.92 -	98.69										
<i>K</i> 2		98.69 -	99.55										uppen 1/2 v. high ash
													,,
COAL		99.87-	100.11						,				
								-					
<u> </u>													
_													
	:		· · · · · -										
		<u></u>	···					,					

FORM 79-0850-RO

PROJECT		RANS	FER	
D 4 C 5	1		0	

HOLE 1	NUMBI	ER	H	OLE	ANG	LE	CC	LLAR	BEAF	RING		TOTAL	DEPTH	i	CORE SIZE	MA	P / SEC	TION NUMBER
QHRG7	-62L	.			20							140.	0		S' Rot.			
						U. T	. M.	C C	ORD	NI	ATE	S					DA1	[E (from / to)
COLLAR	ELEVAT	ION			, ·	,, NOF	HTS							EAST		DRI	LLED	CORE LOGGED
1573	80.		رود	956	(GO)	; 43.					(و:	207 <i>0</i>	1.80					870707
	-4-11			G E	OP	HYS	1 C A	L	DAT	A					C	VER	BURI	DEN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLAI		Ī		DEPTH		сом	POSITION
11200	/				~	/												
1:20		\checkmark	/															

_	-				MIN	I N G	SEC	TION				
SEAM	(BASE)	DRILLED INTERVA	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK R	ECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
1/)2	13.16-14.34										mineable
D3P		14.34 - 15.06	,				-				·	,
D3 D4P		<u> 15.06 - 15.35</u> 15.35 - 15.57									• .	hi ash
04		15.57-16.24					- - -					hiash.
	e-)											
£3		43.95-45.4	-2									low & V. hi ach.
FI		64.55-65.36	,				<u> </u>					
F2P F2		65.36-65.81 65.81- 6 8.91					-					Contains coally park;
F2		64.55 - 68.91										

FORM 79-0850-ROI

PROJEC	T	·····		
0 4 6 5	7	0.5	0	

																			VI
HOLE 1	NUMB	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	T	OTAL	DEPT	Н	CORES	SIZE	MAP	/ SEC	TION NUMBER
QHR	870	26				_													
						U. T	. M .	C O	ORD	INA	TES							DAT	E (from / to)
COLLAR	ELEVAT	ION			դ t յ,	_{rl} NOR	ТН							EAS	T		DRIL	LED	CORE LOGGED
						`; 		_											
				G E	ОРІ	HYS	I C A	L	DAT	Δ.						0	VERI	BURD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPI	Н		COW	POSITION
																İ			
				·								1							

						M I I	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED I	NTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCE	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
SI		104.26	105.58										
32P		105.58.	105.77								i		
32		105.77-	106.85								:		
33P		106-85	-107.14										
<u>G3</u>		107,14-	108.4	<u> </u>									
G3 (S)		104.26-	108.45										
\mathcal{J}		123.32	-12 <i>8.</i> 83				ļ						
KIP		128.83	129.70					-					
Kı		129.70-	- /31.13										upperpart his as
KZA		13413-	1					-					
<u>K2</u>		132.68-	134.10				<u> </u>						includes lower
			:					-					includes lower coal parting
								-					
					· · · · · · · · · · · · · · · · · · ·								
							1						

PROJECT	TRANSFER	
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HOLE V	IUMBI	ER	Н	OLE	ANG	LE	co	LLAR	BEAR	RING	T	OTAL	DEPTH		CORE SIZE	MA	MAP / SECTION NUMBE		
OHREZ	[.so	F		90	>						i	80.	0	ļ	5'_ ''Rot,				
						Ų. T	. M .	_ C O	ORD	INA	TES				- "		DAT	E (from / to)	
COLLAR	ELEVAT	ION) 1 56	ı, NOR	ТН						E	AST		DRI	LLED	CORE LOGGED	
1549	. L. 4		UG	95R	47.	94	······································	•			62	080 <u>U</u>	1.17					870707	
				GE	OPI	HYS	I C A	L 1	DAT	4					C	VER	BURE		
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		сом	POSITION	
1',200	\				~	/													
じてい		~	/																

	MINING SECTION														
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL / ROCI	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS			
લા	···	16.69-17.71			:	-									
		17.71 -17.83													
72P 52		17.83 - 19.19													
63P		19.19-79.84													
<u>G3</u>		19.84-21.66				<u> </u>									
ري		16.69 - 21.66					-								
I		112 55 - 11 06					-								
KIP		42.05-46.94 46.94-47.60													
KI.		47.60 - 49.00									·				
K2P		49.00 - 49.99									· · · · · · · · · · · · · · · · · · ·				
K2		49.99 - 51.36										incl. Comer Split.			
								 				<u>'</u>			
							-								

FORM 79-0850-ROI

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DAGE	1	0.5	つ	

HOLE N	1 U M BI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	T	OTAL	DEP.	ТН	COF	RE SIZI		MAI	/ SEC	TION NUM	ИBER
QURST	1028	ś		9	0							172	0		87	"Rot					
						U. T	. M.	CO	ORD	INA	TES								D A 1	E (from /	′ to)
COLLAR	ELEVAT	ION				Ji, NOR	≀тн							EAS	ĭ			DRII	LED	COREL	OGGED
1542	<u>. 10 </u>		رين	962	2014.	リス					42	047	21.7	O						8707	208
						HYS		L	DAT	Δ							0	VER	BURI	DEN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				D	EPTH			сом	POSITION	
20S'.1	✓				V	1															
1:20		J	<u></u>																		

SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
ÞΙ		58.59 - 59.10										mine able
D2P		59.10 - 59.21										
<u>Ď2</u>		59.21 - 59.60										mineable
D3P		59.60-61.12										
D3		61.12 - 61.41										v. high ash
D4P		61.41-61.74						= 				
D4		61.74-62.30	<u></u>									V. high ash
ΕI		78.72-79.22						,				
EZP		79.22-79.75										!
E2_		19.15- <u>81.48</u>						_				high ash significaut paiting at 80.90 - 81.10
Е ЗР		81.48 - 82,53										parting at 80,90-81.16
E 3		82.53-83.72						_				love to U. hi ash.
			··							-		

Quintette Coal Limited
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PROJEC	T		
DAGE	2_	OF 4	7

																	FAGE			UF	
HOLE N	NUMB	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	T	OTAL	DEP	TH	COR	E SIZE	M.A	AP / SE	CTIC	N NUMBI	ER
QHR	870	28																			
						U. T	. M.	CO	ORD	NA	TES							DA	TE	(from/to)
COLLAR	ELEVAT	ION	<u> </u>		pl	li NOR	TH							EAS	T	-	DR	ILLED		CORE LOG	GED
								•													
				G E	O P I	HYS	I C A	L	DAT	A	· 						OVER	BUR	DE	N	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FB\$	CAL	DIR	SLANT				DI	РТН		CO.	MPOS	ITION	
:																					
												<u> </u>			1						
			l	<u> </u>	<u> </u>							J	!	<u> </u>			<u> </u>				

	MINING SECTION													
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS		
FI		107.54-108.19										•		
F21		108.19-108.65	14									coally.		
F2		108.65-112.18										,		
F2 F)		107.54-112.18		·										
GI		134.88 - 136.09												
829		136.09-136.22				ļ								
G2		136.22 - 137.10												
631	•	137.10-137.80					-	·						
63 (G)		139.80-139.08				ļ			!					
(G)		134.88-139.08					-				···			
						<u> </u>								
<u>J</u>		156.37-161.58										0. 01 100 100 11		
KIP		161.58-162.66					-					Coally-incl. upper K1.		
KI		162.66-163.77					-				·			
K2P		163.77-164.67												
レコ			•									EQRMAP. 4850-		



PROJECT_TR	ANSFER
PAGE	OF

HOLE N	IUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	ING	<i>,</i> TO	TAL D	EPTH	CORE SIZE	MAP/SE	CTION NUMBER	
QURET	075	<u>م</u>		9	0_						1	110,0)	St "Rot	,		
U. T. M. COORDINATES												DA	TE (from / to)				
COLLAR E	EL EVAT	ION				η NOR	TH						EAS	T	DRILLED	CORE LOGGED	
1545.46 605579.20						1070	ماھاچ	,5%		870710							
						HYS	I C A	L	DAT	4				OVERBURDEN			
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT			DEPTH	COI	A POSITION	
1',200	~					~											
1:20		✓	~														

	MINING SECTION												
SEAM	ELEVATION (BASE)	DRILLED INTERVA	L AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS	
FI		15.59-16.4											
F2F		16.47 - 16.71											
F2		16.71 - 19.30								<u>-</u> -			
F2		1559-19.34											
										ļ			
81		48.39-49.4	<u> </u>			<u> </u>							
<u>G2f</u> G2		49.42 - 49.50				<u> </u>							
<u>G2</u>		49.54 - 50.63											
G731	>	50,63 - 50.9		ļ		<u> </u>	-						
<u>63</u>		50.97 - 52.20	<u> </u>				-						
60 H		4-8.39 - 52.2				<u></u>				_			
I		66.86-71.3	i	<u>-</u>									
KIP		71.31 - 72,0	1							_			
Kt_		72.09 - 73.3		<u> </u>		-						top! hi ash.	
K2P		73.39-74.54				<u> </u>				-			
K2		74.54 - 75.80			<u> </u>	<u> </u>					·	ind. lower spli	

Quintette Coal Limited
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PROJECT	RANSFER
	<i>,</i>

															PAGE_		OF /
HOLE N	NUMB	ER	Н	OLE	ANG	LE	CO	LLAR	BEA	RING		OTAL	DEPTH	CORE SIZE	МА	P / SEC	TION NUMBER
QHRGI	1030	>		9	0							8	5.8				
						U. T	. M.	C C	ORE	NIC	ATES					DAI	E (from / to)
COLLAR	ELEVAT	ION			19	I NO	RTH	EAST						DRI	LLED	CORE LOGGED	
1489	,50	•	الع	953	, sz) 51					ره۶	سالالوع	26				870711
k.				GE	O P	H Y S	1 C A	L	DAT	Α			· •	(OVERBURDEN		
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FB5	CAL	DIR	\$LAN -∡£	г		DEPTH		сом	POSITION
1'.00					✓	V											
1100			1.7														

					MΙ	NING	SEC	TION				···
EAM	ELEVATION (BASE)	DRILLED INTERV	AL AVG. B.C. N	TRUE THICKNESS	COAL/ROC	K RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
Ø		1.9 - 4.9										From General Cog
GI		33.08-34.5	2_									
G2P G2		34.52-34: 34.79 - 36:3								,		
G3P		36.30 - 36.7	70									
63 (6)		36.70 - 38.9 33.08 -38.9										
T												
KIP)	58.86 - 65.3 65.35 - 66.4	4									Contains 2 coal par
KI		66.44-67.7	4									
1	6 K2	- Note	; K1	may	be t	2 7	the	fluir co	als be	hween A	1 6 7	are "KI"
					<u> </u>							FORH 70 - 0850 - B

FORM 79-085Q-RO:



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DAGE	1	0.6	7

HOLE	I U M BI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING		JATC	DEPT	Н	CORE SIZ	E	MAP/	SEC	TION NUMBER
Q456	E01	١		90)							50	0.0		Siret.				
						U. T	. M .	CO	ORD	INA	TES			· · · · · · · · · · · · · · · · · · ·				DAT	E (from / to)
COLLAR	ELEVAT	ION			1"	NOF	тн							E A S	T		DRILLE	D	CORE LOGGED
1425.	リマ		609	[⊃] 67+ ∟	シェチナ	<u>, </u>					621	267.	20						870712
						H Y S	I C A	L I	DAT	Α					-	0	VERBL	J R D	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	5 LANT ∡≾				DEPTH			сомі	POSITION
11,200	✓				✓	✓													
1:20			/																

						MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED I	NTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
J		23,33-2	28.72										
KIP		28.72 -	29.76										
KI		29.76-	31.30			·		-					appropart his ash.
4- 0								-					
(2P K2		31.30 - 3											
<u>K2</u>		32.56-	34.11	l					i				Incl. Cower split
										_			
	_				····								
				- /									
							<u> </u>						
								-					
		<u> </u>											

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HOLE	NUMBI	ER	Н	OLE	ANG	LE	CC	LLAR	BEAF	RING	T	OTAL	DEPTH		CORE SIZE	MA	AP / SEC	TION NUMBER
OHR8	103	<u> </u>		9	0							92.	7	,	5! 'Rot			•
			r			U. T	. M.	C C	ORD	NA	TES						DAT	E (from /to)
COLLAR	ELEVAT	ION				"NOF	RTH							E A S T		DR	ILLED	CORE LOGGED
1451	<u>587</u>		رو د	295	887	185)				زي ز	2110	(o e (X)	+				870713
				GE	OP	HYS	1 C A	L	DAT	A						OVER	BURI	DEN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	\$LANT ∡				DEPTH		сом	POSITION
1:200	✓				/	~			1		-							
1:20		~	~		V				レ						• 			

	MINING SECTION													
SEAM	ELEVATION (BASE)	DRILLED INTER	RVAL AVC	3. TRUE N. THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS		
Fi		10.03-10.7	9											
F2P		10.79-11.1			-		<u>- </u>							
F2		11.15-14.2												
F2		10.03-14.						7						
GI		50.56-51.					ļ							
SZP		5167- 51.												
32	1	51.78 - 52.	i i											
39	ı	52.85 -53.												
93		53,20 - 54.	43											
9)		50.56 -54.	43 .											
1	. <u>.</u>	71.09-76.6	55											
KIP		78.65-77.8	6											
K1		77.86-79.	38									upper part hi as		
21		79.38 - 8a	40											
k2		<u> 80.40 - 82.</u>	00									und. Comer split		
							·							



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PAGE	1 05 2

HOLE 1	NUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAF	RING		TOTAL	DEPT	H	COF	E SIZI	E	MAF	/ SEC	NOIT:	IUMBER
QHR=	6700	33									(78.7	7								
			_		<u> </u>	U. T	. M .	C C	ORD	INA	ATE:	5							DAI	E (fro	m / to)
COLLAR	ELEVAT	ION				NOF	ETH .							EAS	T			DRIL	LED	COR	LOGGED
1437	.70	·····	60	951	48.	೮ತ		,			رو :	21296	3.3	}						870	714
	_			GE	OP	H Y S	I C A	L	DAT	Д		1					0 '	V E R I	BURI	DEN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLAN	Т			D	EPTH			сом	POSITIO	D N
1,200	. 1				✓	/						\									
1:20			V																		

	MINING SECTION SEAM ELEVATION DRILLED INTERVAL AVG. TRUE THICKNESS COAL/ROCK RECOVERY THICKNESS DRILLED SAMPLED TAG NO. LAB NO. COMMENTS													
SEAM	ELEVATION (BASE)			TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS		
FI		2.95-4.10						f		:				
F2P		4.10 - 4.51												
F2		4.51 - 8.56						·						
Ð		2.95 - 8,56												
F2 D G1		31.35-32.6												
3 <i>2P</i>		32.64 - 32.6												
62		32.92-34.2	.6											
53P		3426-34.6	6					•	:					
53		<u> 34.66 - 35.8</u>	6											
936 93		31.35-35.8	<u> </u>											
<u> </u>							·							
Corl		36.25-36.8	36				·					V. hi ash		
		-					<u></u>							

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	2	~	

			OLE	ANG	LE	CO	LLAR	BEAR	RING	Ţ	OTAL	DEP	ΤН	CORE	SIZE	M	AP / SEG	CTION NUMBER
870	33		. =															
					U. T	. M.	CC	ORD	INA	TES							D A	TE (from / to)
ELEVAT	ION			†	ŅOR	RTH .							EAS	Т		DR	ILLED	CORE LOGGED
					4				·									
			G E	OPI	HYS	I C A	L.	DAT	4	<u> </u>	,				(OVER	BUR	DEN
DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DE	PTH		сом	POSITION
										-								
	370' ELEVAT	ELEVATION	B7033 ELEVATION	B7033 ELEVATION G E	B7033 ELEVATION GEOPE	B7033 U. T ELEVATION NOR	U. T. M. ELEVATION NORTH	U. T. M. C. C. ELEVATION NORTH	U. T. M. COORD ELEVATION NORTH	U. T. M. COORDINA ELEVATION NORTH GEOPHYSICAL DATA	U. T. M. COORDINATES ELEVATION NORTH GEOPHYSICAL DATA DEN BRD LSD HRD GAM NEUT FRE FRS CAL DIR SLANT	U. T. M. COORDINATES ELEVATION NORTH GEOPHYSICAL DATA DEN BRD LSD HRD GAM NEUT FRE FRS CAL DIR SLANT	U. T. M. COORDINATES ELEVATION NORTH GEOPHYSICAL DATA DEN BRD LSD HRD GAM NEUT FRE FRS CAL DIR SLANT	U. T. M. COORDINATES ELEVATION NORTH EAS GEOPHYSICAL DATA DEN BRD LSD HRD GAM NEUT FBE FBS CAL DIR SLANT	U. T. M. COORDINATES ELEVATION NORTH EAST GEOPHYSICAL DATA DEN BRD LSD HRD GAM NEUT FRE FRS CAL DIR SLANT DE	U. T. M. COORDINATES ELEVATION NORTH EAST GEOPHYSICAL DATA DEN BRD LSD HRD GAM NEUT FBE FBS CAL DIR SLANT DEPTH	U. T. M. COORDINATES ELEVATION NORTH EAST DR GEOPHYSICAL DATA OVER DEN BRD LSD HRD GAM NEUT FRE FRS CAL DIR SLANT DEPTH	U. T. M. COORDINATES ELEVATION GEOPHYSICAL DATA OVERBUR DEN BRD LSD HRD GAM NEUT FBE FBS CAL DIR SLANT DEPTH COM

						MIN	IING	SEC	TION			***************************************	
SEAM	ELEVATION (BASE)	DRILLED I	NTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
I		60.73-	66.71			1			 				
KIP		66.71-			Could	e poined		<u>.</u>					
KI		67.19-	68.17		dog	Just							
KZP		68.17		,									harsthing coalpation in a lower split
<u>K2</u>		70.18 -	72.03		:			-	•				ind lower split
											,		
		<u> </u>					<u> </u>						



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																	,	
HOLE 1	NUMBE	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	T	JATC	DEPT	Н	CORE SIZE	MAP/	SEC.	TION NUMBER
QHRE	8709	34		900	•							108	M		51. Rot.		•	
			·			U. T	. M .	CO	ORD	NA	TES						DAT	E (from /to)
COLLAR	ELEVAT	ION			1 1	. NOR	тн							EAS	T	DRILL	E D	CORE LOGGED
/3/	9.00			60	<u> </u>	<u> 77</u>	8.1	6			ļ	62	175	50	.45	8707	15	
				GE	OPI	HYS	I C A	L I	DAT	4					0	VERB	URD	ΕN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COMP	OSITION
	1)	/												7 @			
		0		OG	2 S -										~20m			

						MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
	()												
	X	_//		,)								
	-D	Thic	ult	l	res Ce	due 4	,	ex ces	sive	ove	burde		
		///			-)	_				
		1	_										
	- K) o c	oal	ردی	as	inte	sec	fed.					
		7									11	1	1.
	- (one	booke	9) 6	it 0	10	8 m.	K 5.	andone	1 140	۷. ا	No charge.
				/	/								0
		7-	_/	,			<u></u>		100	1	_0 /_ _		10
		(riseo		<u>8</u>	re do	ill u	<u> </u>	Dee	87	but	not	ACC	cessful
.		auss.	~g_ }	Lan	magh		hu	den		20	h		
		0	/					<u></u>		XA	/		
											4.0	<u>_</u> _	
				·-·		· · · · · · · · · · · · · · · · · · ·				88	0121		



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HOLEN	IUMBE	R	Н	OLE	ANG	LE	CO	LLAR	BEA	RING	T	JATC	DEPTH	С	ORE S12	ZE	MAP	/ SEC	TION NUMBER
QHRE	370	35		<i>C</i>	70						12	29,0)	SĘ	'Rot				
					: <u>! </u>	,U. T	. M.	CO	ORD	NA	TES							DAT	E (from / to)
COLLAR ELEVATION NORTH													E A	A S T			DRIL	LED	CORE LOGGED
1558.01 609.6125.30									6	20:	293.6	6			870809				
<u> </u>				G E	OPI	HYS	I C A	L I	DAT	A						0	VERB	URE) E N
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH			COM	POSITION
1:200	1				V				L	سا	~						•		
		4	-		سا				~										

	MINING SECTION EAM ELEVATION DRILLED INTERVAL AVG. TRUE COAL/ROCK RECOVERY INTERSEAM DRILED SAMPLE COMP. COMMENTS														
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS			
DI		16.4 - 17.0													
DI DŹP		17.0 - 17.4			. ^										
D2		17.4-17.7													
D3e		17.7-18.0										,			
D3	/	18.0-18.4									/	Some coally mix below			
D4P		18.4 - 19.4			,										
D4		194-20.9													
								•							
El		82.7-34.0										Rock parkings.			
E2P	į.	34.0-34.8													
E 2		34.8 - 39.15			-							V. hi ash			
<u>Е ЗР</u> Е З		39.15 - 40.62													
E3		40-62-41.38							,						
FI		61.26-61.96													
F2P		61.96-82.28													



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D 4 6 5	7		9	

HOLE N	UMB	ER	Н	OLE	ANG	LΕ	CO	LLAR	BEAR	RING	TO	OTAL DE	PTH	CORE SIZE	MAP / SEC	TION NUMBER
QHRE	370	35		9	0					,	1.	29.0	۸	SI "Rot		
	. U.T.M. COORDINA														DAT	E (from /to)
COLLAR ELEVATION TO NORTH													EAS	DRILLED	CORE LOGGED	
μ																870809
			·	G E	O P I	HYS	I C A	L I	DATA	Δ				0	VERBURD	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT			DEPTH	СОМ	POSITION
1:200	سا				سسا	-	سسا		سا	1	اسا					
		سسا	_													

	MINING SECTION EAM ELEVATION DRILLED INTERVAL AVG. TRUE COAL/ROCK RECOVERY INTERSEASE DATE SAMPLE COMP. COMMENTS														
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL / ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS		
F2	:	62,28	-65.65	•											
F2		61.26	- 65.65 - 65.65												
61		91.01-	92.09					-							
SZP		92.09.	92.21												
62 63P	•		-93.02 -93.61												
63 6)			- 94.61						·····						
S 2		91.01-	94.61												
J		111.47	-116.92					<u> </u>							
KIR)		-117.51												
K1 K2A)	_	-118.83 -120.00										excl. lower split		
<i>K</i> 2		120.00	- 120.88										excl. Lower split		



PROJEC	TIR	ANSFE	R
	,	. 7	•

																	,	
HOLE N	NUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	Ţ	JATC	DEPT	Н	CORE SIZE	МАР	/ SEC	TION NUMBER
QHRE	1887036 90										/	17.0	60		5%"Rot			
U. T. M. COORDINA																DATE (from / to)		
COLLAR	COLLAR ELEVATION													EAST		DRIL	LED	CORE LOGGED
15	1544.31 6096202.09										6	20	351	.14				870809
				G E	OPI	HY\$	I C A	L	DAT	A					C	VERE	URD	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COM	POSITION
1:200	V				V	レ			L-	-	L						-	·····
1:20	20																	

	MINING SECTION AM ELEVATION DRILLED INTERVAL AVG. TRUE COAL/ROCK RECOVERY INTERSEAM DATE DATE SAMPLE COMP. COMMENTS THICKNESS DRILLED SAMPLED TAG No. LAB No. COMMENTS														
SEAM ELEVATION	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL / ROCK	RECOVERY	INTERSEAM THICKNESS		DATE SAMPLED	SAMPLE TAG No.	COMP.	COMMENTS				
Dopal?	2.4-3.2	\overline{h}			Ī										
		/)												
EI	21.3 - 21.8	,	Dom G	aneral log											
E2P	21.8 - 22.4	5	0												
£2	22.4 - 24.24										,				
Ξ3 <i>P</i>	24.24 - 25.27														
€3	25.27-27.77														
F1	50.18 - 50.70														
F2P	50.70-51.14														
F2	51.14 - 54.25		'												
F2	50.18-54.25				,,-										
<u> </u>	77.99- 79.23														
G2P	79.23 - 79.40														

FORM 79-0850-R0

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HOLE 1	NUMB	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	≀ING	TC	JATC	DEP.	ТН	CORE SI	ZE	MAP	/ SEC	TION NUM	BER
QHRE	370°	36																	-	
						U. T	. M.	CO	ORD	INA	ATES				1			DAT	E (from / 1	10)
COLLAR	ELEVAT	ION			1. staritali	' 'NOR	.TH							E A S	T		DRIL	LED	CORE LO	GGED
		1				i		•												
				G E	O P I	HYS	I C A	L /	DATA	Ā						0	VERE	URC) E N	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT 4				DEPTH	1		сом	POSITION	
		<u> </u>	!	<u> </u>	'		, 1	'												
							i													

						MIN	IING	SEC	TION				
SEAM	(BASE)	DRILLED I	NTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
32		79.40-	80.34										
G3 P		80,34-											
63 6		80.97- 1											×
(S)		77.99-	82.12										
T		97.80-	103.48										
KIP	,	103.48-	104.48	}	.1				*				
KI		104.48 - 105.74- 106.70-	-105.74					-				'	
K2P K2		105,74- 106,70-	105.70						· · ·				
-			15.12.72										
				·					,				
													
_		· · · ·											

FORM 79-0850-RO1



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																.		
HOLE N	NUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	ING	Ţ	JATC	DEP	ΤH	CORE SIZE	MAP/S	SECTI	on number
QHRB	3703	37	,	90	6			_			9	1. 8	3	ı	S#"Rot			,
U. T. M. COORDINATES														DATE (from / to)				
COLLAR	COLLAR ELEVATION COLLAR ELEVATION												EAS	T	DRILLED)	CORE LOGGED	
156	2.4	2	6095758.00								6	20	77/	.32				870809
			_	G E	O P	HYS	I C A	L I	DATA	4					0	VERBU	RDI	ΕN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH	C	ОМРО	SITION
1:200	~				1	~			<u>ارا</u>	し	L							
1:20		سا	سسا		سا				سسا									

					MIN	IING	SEC	TION	· · · · · · · · · · · · · · · · · · ·			
SEAM	ELEVATION (BASE)	DRILLED, INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
						<u> </u>						\
FI		7.7-8.1		/		ļ						
F2P		8.1-8.4	\ \frac{1}{2}	From	General							
F2		8.4-12.2			Log							
(P)		7.7-12.2		J								
GI		41.47 - 42.70										
620		42.70 - 42.85										
G2		42.85-43.74						•				
63P 6 3		43.74-44.22										
63		44.22 - 45.60										•
(G)		41.47 - 45.60										

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PAGE	2	OF 2	<u>></u>

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						MIN	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
T		59.64	-64.44										
KIP		64.44 -	64.91									****	
KI			66.22										V. high and wager -
KZP		66.22 -											The state of the s
K2		67.01-											V. high ash upper =
									,				
							ļ <u> </u>	-					
						N		-					· · · · · · · · · · · · · · · · · · ·
							<u> </u>						

FORM 79-0850-ROI



PROJECT_	TRANSFER
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HOLE	NUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	T	JATC	DEPT	H	CORE SIZE	MAP / SECTION NUMBER		
QHR87038		8		90			129.0			·	SZ "RJ+							
U. T. M. COORDINATES													S DATE (from / to)					
COLLAR	ELEVAT	ION		** * ENORTH										EAS	Т	DRILL	E D	CORE LOGGED
1490	.85		6096017.01								(20	942	2.6	7	870813		
				G E	OPI	H Y S	I C A	L	DAT	A						OVERBURDEN		
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COM	POSITION
1:200	レ				سسا	سا			سا	سا	اسا							
		اسا	سسا		<i></i>				سسا									

						MIN	IING	SEC	TION				
SEAM	(BASE)	DRILLED	INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL / ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
DI		10.30	-10.68										large ash band
D2P		10.68-	10.94										9
D.2		10.94 -	11.38										
D3P		11.38 -	11.78.									· · · · · · · · · · · · · · · · · · ·	
⊅3		11.78 -	11.98										
DAP.		11.96 -	12.27										
D4		12.27 -	12.90.										
D		10.30-	12.90						:				mmeable?
					<u> </u>								
ΕI		32.24-3	32.88							,			
E2P		32.88 -	33.32										
Ę2	`	33. 3 2 -	36.03				<u> </u>						high ash.
ЕЗР		36.03 - 3	38.26										O .
<u>E3</u>		38. 26 -	39.851	- 									high ash - excludi
		h		.•									high ash - excluding lower split.
													·



PROJECT	
- · · · ·	
PAGE	<u>*</u> OF

HOLE 1	NUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	T	OTAL	DEP	TH	COR	E SIZ	E	MAP	/ SEC	TION NU	MBER
QHR 8	<i>370</i> .	<u> 38</u>		,																	
					. 11.6	, U. T	. M.	CO	ORD	INA	TES								DAT	E (from	/ to)
COLLAR	ELEVAT	ION				NOR	RTH.							EAS	T			DRIL	LED	CORE	LOGGED
						i ,		•													
				G E	OPI	HYS	I C A	L	DAT	4							0 V	ERE	URC	EN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				D	EPTH			сом	POSITION	1
				•		:															
															1						
				l	<u> </u>				l.	L		ļ	ļ								

<u> </u>						MIN	IING	SEC	TION		*		
SEAM	ELEVATION (BASE)	DRILLED IN	TERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
FI		58.26- 5	8.92										
F2A		58.97-5											
F2		59.24-6	2,50										
(E)		58.26 -6											
												:	
GI		97.42-9	8.45		-			*					
GZP		98.45-9											
62	- ·	98.62 - 9							•				
<u>63P</u>		99.58 -10	00.15										
63 (S) J		100.15-1											
		97.42 -1											
J		115.70-1	20.59										
<u>K10</u>		120.59-1	21.48										
KI		121.48-1	1										hi ash upper & has thin coalop ! Intl. lower split
KZP		122.76-12	23,53										has this coalspl
K2	•	123.53-12	15.01										Indl. Cower split

PROJEC	TR	ARUS	FER
DAGE	1	0.5	2

																	-	
HOLE V	NUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEA	RING	T.	JATC	DEPTH	1	CORE SIZE	MA	P / SEC	TION NUMBER
QHRE	370	39		90	<u> </u>							99	.0		5 1 . Rot			
						, υ. τ	. M.	C C	ORD	INA	ATES						DAI	E (from / to)
COLLAR	ELEVAT	ION	, r _{NORTH}											EAST		DRI	LLED	CORE LOGGED
152	2.50	>		6095418.96								521	016	.01				870815
				G E	OPI	HYS	1 C A	Ļ	DAT	A					C	VER	BURI	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		сом	POSITION
1:200	~				<u></u>				<u></u>	سا	<u> </u>							
1:20		سا	سا	-	<u> </u>					 								

	MINING SECTION													
EAM	(BASE)	DRILLED INT	ERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS	
FI		/3 02	<u> </u>											
F2P		13.93-19 15.30-15												
		15.63-20	L											
F2 (F)		13.93-20												
S,		53.75- 55	500											
528		<u>55.06 - 55</u>							•					
52		55,27 - 56	6.74											
63P		56.74 - 57	- 1-											
63 6	I	<u>57.38-51</u> 53.75-5	I											
													, , , , , , , , , , , , , , , , , , , ,	
														



PROJEC	T	ansfer	
DAGE	0	~ ~	

HOLE N	NUMB	ER	Н	OLE	ANG	L E	CO	LLAR	BEAR	RING	1	OTAL	DEPTI	H	CORE SIZ	E	MAP	/ SEC	TION NUMBER
BHR E	3703	39							,										
					. 12.5.	, U. T	. M.	CO	ORD	INA	TES				·			DAT	E (from /to)
COLLAR	ELEVAT	ION				NOR	TH							EAS	T		DRILL	E D	CORE LOGGED
						i.				•								:	
				G E	ОР	HYS	I C A	L I	DAT	A		 				0	/ E R B	URD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLAN	Г			DEPTH			COMP	OSITION
					ļ												****		
				'		<u> </u>		1											

						MIN	IING	\$ E C	TION				
SEAM	(BASE)	DRILLED	INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
1		79.48	-83.02									•	
KIP		83.02-	83.92										
K/		83.92-	-85.54										upper & hi ash
K2/			87.10										has coalsplit
<u>K2</u>		<u> 87.10-</u>	88.80							-			has coal split incl. lower split
									· · · · · · · · · · · · · · · · · · ·				
							•						
		······································											

FORM 79-0850-ROI

	Quintette Coal Limited
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PROJECT	TRAI	US <i>FER</i>	
0.4.0.5	1	~~ ~	

																1005		Ur
HOFE V	JUMB	ER	Н	OLE	ANG	LE	. CO	LLAR	BEAR	≀ING	T	OTAL	DEPT	Н	CORE SIZE	MAP	/ SEC	TION NUMBER
QHRE	<u> 370</u>	40		9	00		• ,	•				98	.20		52'R+			
						U. T	. M.	CO	ORD	NA	TES						DAT	TE (from / to)
COLLAR	ELEVAT	HON				NOR	≀TH							EAST	ſ	DRIL	LED	CORE LOGGED
/36,	1.19				600	75:	283	3.74	<u>'}</u>			627	2166	5.77	7	8		870816
				GE	ОРІ	HYS	1 C A	L	DATA	A			-			OVERI	BURI	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		сом	POSITION
1:200	V				1	V			~	レ	L							7,77
		し	レ						-									

	MINING SECTION												
SEAM	ELEVATION (BASE)	DRILLED I	NTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL / ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
FI		14.18 - /	ري 33										,
F2A		15.33-1	5.60										
F2_		15.60-											
F2 (D)		14.18 - 2											
	 .												
Gaul	<i>t</i> ?	25.5											
					•				•				
F2	?	25.5-	27.2										
·													
<u>G</u> 1		43 <u>,99- 4</u>	45.05										
320		45.05-	45,22										
32		45.72-	46.49						_				
32 <i>p</i> 32 33 <i>p</i>		45.72-1 46.49-4	47.05										
63		47.05-	48.61										
63 6)		43.99-											

Quintette Coal Limited		Quintette Coal Limited
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PROJECT_				
PAGE	2	OF	2	

HOLE 1	VUMBI	ER	Н	OLE	ANG	LΕ	CC	LLAR	BEA	RING		OTAL	. DEP	TH	COR	E SIZ	E	MAF	SEC	TION NUM	BER
QHR	870	40																			
						,U. T	. M.	C O	ORE	NA	TES)							DAT	E (from /	to)
COLLAR	ELEVAT	ПОП			• •	NOI	RTH							EAS	T			DRIL	LED	CORE LO	OGGED
						<i>f</i>												<u> </u>			
				G E	OP	H Y S	I C A	L	DAT	A	•						0	VER	BURE	EN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLAN	r			D	EPTH			сом	POSITION	
												:					l				

						MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED IN	ITERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP, LAB No.	COMMENTS
J	·	72.04-7	77.82										
KIP		77.82-7	79.00										has wally partings
KL		79.00 - E											has wally partings upper ; hi ash.
K2P		80.67-8	3.59	_(4	hin coa	1 82.28-1	32.37)						
K2		83.59 -8	35.06							:			excl. Comer coally
													parting
						_							
-								,-					
				·i	···				:				



PROJECT_	TRANS	FER
PAGE	OF	2

HOLE N	1UMB	ER	Н	OLE	ANG	LE	co	LLAR	BEAF	RING	T	JATC	DEPT	Н	CORE SIZE	MAI	P / SEC	TION NUMBER
QHR	870	41		90							/	<i>87.</i> ,	8		S'F'Rot.			
					ا المنظم	U. T	. M.	C O	ORD	NIC	TES						DAT	E (from / to)
COLLAR	ELEVAT	TON				NOF	₹TΗ							EAST	i	DRIL	LED	CORE LOGGED
891.53 6095/50.74										6	23,	801	94				870816	
				G E	OP	HYS	1 C A	L	DAT	A					1	OVER	BURE) E N
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COW	POSITION
1:200	/				L	~			-	-	<u></u>			Ī			_	
1:20		<u></u>	レ															

					MIN	ING	SEC	TION				
SEAM	ELEVATION { BASE }	DRILLED INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
Δı		24.62-25.17										
D2/	2	25.17-25.53										
<u>D2</u>		25.53-26.40					-					
E3		59.82-61.06										hi ach
FI		79.40-79.76										
-2P -2		79.76-80.10 80.10-83.47										
=2 B		79.40-83.47					-					
હા		104.04-104.92										
ଦ୍ର । ନୁଅନ ଓ ଅ		<u>104.92-105.01</u> 105.01-106.05 106.05-108.18										
33A		106.05-108.18	<u>·</u> }					t				

Quintette Coal Limited

DRILL HOLE SUMMARY SHEET

PROJECT

PAGE 2 OF 2

HOLE N	NUMBI	ER	H	OLE	ANG	LE	CO	LLAR	BEAR	ING	Ţ	OTAL	DEPT	Н	CORE	SIZE		MAP,	/ SEC	TION N	UMBER
QHR	870	41													· · · · · · · · · · · · · · · · · · ·						
					·	,U. T	. M.	¢ o	ORD	INA	TES								DAT	E (from	/to)
COLLAR	ELEVAT	ION				NOF	RTH .		_					EAS	T		1	DRILL	E D	CORE	LOGGED
						ř		1													
-				G E	ОРІ	HYS	ICA	L	DAT	Δ.							O V E	R B	URD	ΕN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	\$LAN				DE	PTH			COMP	OSITIO	N

		_				MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTE	RVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
													`
(9)		104.04-1	07.9										
1		126.40-13	1.12						1				
KIP		131.12-131											
KI		131.61 - 13:											uppy ! hi ash
K2P		133.18-131	9.37						-				incl. coal split
K2		<u> 138,37-139</u>	7.20							-		···	•
									,				
										·			
			•				<u> </u>						
_													



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DRILL HOLE SUMMARY SHEET

PROJECT.	TR	ANSFER
0 4 6 5	,	or 7.

						1 M G L	Or
HOLE 1	NUMBER	HOLE ANGLE	COLLAR BEARING	TOTAL DEPTH	CORE SIZE	MAP / SEC	TION NUMBER
QHR 8	37042	90		129.70	St. Rot		
		_{II} U	.T.M. COORDINA	TES		DAT	E (from /to)
COLLAR	ELEVATION	'' '*,'N	ORTH	EAS	S T	DRILLED	CORE LOGGED
80	11.10	60950	281.35	623748.75			870818
		GEOPHY	SICAL DATA	N.a	0	VERBURD	DEN
SCALE	DEN BRD	LSD HRD GAM NE	UT FBE FBS CAL DIR	SLANT JI	DEPTH	сом	POSITION

						M I-N	IING	\$ E C	TION				
SEAM	ELEVATION (BASE)	DRILLED IN	ITERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
E3		<u>38.64-4</u>	0.15										
FI		57.89-5	8.38										
F2P		58.38 - 5	8.72							-{			
F2		58.72-6	2.68										
F2 (F)	:	57.89-6	62.68										
GI		<u>84.59-8</u>	35.62					,					
G28		85.62-8	35.79										V. coally
92		<u>85.79 - 8</u>	36.36										
(3/	>	<u> 86.36 - 8</u>	6.76								ĺ		
63		36.76 - 8											
62 63 63 6 3		<u> 84.59 - 8</u>											
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Quintette Coal Limited
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UOLE MILLAR			<u> </u>	A N.C			11 40	2545		T -	~ ~									
HOLE NUMB	EK	Н	OLE	ANG	<u>L</u>		LLAK	BEAR	≀ING	1	OTAL	DEP	[H	CORE	ESIZE		MAP	/ SEC	MUN NOIT	BER '
QHR 870	142																			/
				III.	U. T.	. M.	C O	ORD	INA	TES								DAT	E (from /t	ro)
COLLAR ELEVAT	ΠΟΝ				'NOR	TH							EAS	Т			DRILL	E D	CORE LO	GGED
					*		•													
			GE	OPI	ΗΥѕ	I C A	L I	DATA	Ā	,						OVE	R B	URD	ΕN	
SCALE DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DE	PTH			COMP	OSITION	
			'																	

						MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED II	NTERVAL	A V.G. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
J		10/ 04	W 00										
KIP	•	106.80- 111.88-											
KI		1/2.36-						-					and high ash uppy
<u>к</u> 2Р К2	•	11418-12						-					mid love split
ΝZ		120,33-	121.57										mid. lower split
FAO	LTM	121.6							•				
K 2	<u> </u>	12/90	102					-					. 07
1/4	(repeat)	141.78	125.0/										indlover split



PROJECT TRA	NS/	ER	
PAGE /	O.F.	1	

											-								
HOLE N			<u>H</u>	OLE	ANG	LE	CO	LLAR	BEAR	ing '	<u>T</u> /	OTAL	DEPTH		CORE SIZE	MAP/	SEC1	TION NUMBER	
QUR 8	1701	+3		90	<u>)</u>			******				116	,4	<u></u>	S# "Rot.				
					10 ***	լ Ս . Т.	. M .	C O	ORD	INA	TES						DAT	E (from / to)	
COLLAR E	<i>E</i> LEVAT	ION				'N O R	TH						,	EAST		DRILLE	E D	CORE LOGGED	
902	2.//		<u></u>	_6	09	1482	<u> 27.</u> '	36				62	3622	2.90	7			870820	
				GE	OPI	HYS	I C A	L ſ	DATA			0:0			0	OVERBURDEN			
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT	Mexi	/		DEPTH		COMP	OSITION	
1:200	1				اسا	سا	,			ー	1	V							
1:20		-	اسسا		اسسا								(

	MINING SECTION											
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	A V G. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP.	COMMENTS
ଣ		36,40-37,63										
621		37.63-37.80										
S2		37.80-39.39										
6 34	>	39.39-40.35					-			-		
<u>G</u> 3		40.35-42.32										
3 000		36.40 - 42.32	t 1									
J		71.76 - 79.63										
KIP		79.63-80.81						•				
.KI		80.81-81.25										Thing clean
K2f K2)	81.25-90.37							-			
<u>K2</u>		90.37-91.48										
6		,	1 1					•				
(ba	lly zone	91.60-92.47)									



PROJECT 1	RAWS	FER
PAGE	0.5	2

HOLE	JUMBI	ER	Ξ	OLE	ANG	LE	CO	LLAR	BEAR	RING	Т	OTAL	DEPTH		CORE SIZE	M	AP/SEC	TION NUMBER
SHRE	370	44		90							1	35%	7		St" Rot	:		
					19.55	U. T	. M.	CO	ORD	NA	TES						DA.	TE (from / to)
COLLAR	ELEVAT	ЮИ			· ·	NOF	тн						E	AST		DF	RILLED	CORE LOGGED
88	30.0	94		6	094	992	2.35					623	705.	19				870820
				G E	OP	HYS	I C A	L,	DAT			A				VE	RBUR	DEN
SCALE	· DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT	mere,	/		DEPTH		COM	POSITION
1:200	L				<u></u>	L			-	_	<u>_</u>	-						
1:20		سسا	سا		<u> </u>				L								•	

					MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL / ROCK R	ECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
Δı		10.68-11.69										
D2P		11.69-12.04		<u></u>								
D2	·	12.04-12.87										
	<u> </u>	10.68-12.87										
								· · · · · · · · · · · · · · · · · · ·				
<u>E3</u>		47.27-48. 8 6	7					,				
FI		65.53-65.91						•				
FZ		65.91-66.09					<u> </u>					Coally
FZ (F)		66.09-69.50					·					
E)		65.53-69.50										
	<u> </u>						-,,					,
<u>ର ।</u>		92.10 - 92.80	1			<i></i>						0 00
926	<u></u>	92.80 - 92.98										Coally.
Gz		92.98 - 93.85	_									
<u>63</u>	<u> </u>	93.85 - 94.23										FORM 79 - 0850

PROJEC	T			
BACE	2	0.5	2_	
PAGE.	<i></i>	() 1-		

HOLE	NUMB	ER	Н	OLE	ANG	l, E	CO	LLAR	BEAF	RING	T	OTAL	DEP	TH	CO	RE SIZ	Ε	MAF	/ SEC	TION NUM	BER
QHR	870	44																			
					16.14.	, U. T	. M.	C O	ORE	NIC	TES								DAT	E (from /t	o)
COLLAR	ELEVAT	ION				''NOF	RTH							EAS	T			DRIL	LED	CORE LO	GGED
						:															
				GE	O P	HYS	I C A	L I	DAT	A		• • • • • • • • • • • • • • • • • • • •					0 '	VER	BURE	EN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT ∡					DEPTH			COW	POSITION	
				i																	
			<u> </u>			L			l	i	I)	ł	1							

						1 I M	ING	SEC	TION				
EAM	ELEVATION (BASE)	DRILLED IN	ITERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL / ROCI	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
23		9473-	96.66										
33 S)		94.23-	95:55										
T		112.72-1	17.12						- · · · · · · · · · · · · · · · ·				
KIP		117,12-1	17.61	·									
K!		117.61-1	19.07					,				· - · ·	upper ! hi ash
K2P		119.07-12	25,06					-					
K2		125.06-1	25.80										excludes wally zone below
													Zone below
					·								



PROJECT_	TRANS	FER
PAGE	/ 05	1

HOLE	IUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAF	RING	T	OTAL	DEPI	ſH	CORE SIZE		MAP / SEC	TION NUMBER
QHRE	370	45	(70								99.	0		51"R+			
					II) 131	ຸU. T	. M .	C O	ORD	INA	TES			<u></u>			DA.	「E (from / to)
COLLAR	ELEVAT	ION	"'N ORTH											EAS	Т	[DRILLED	CORE LOGGED
838	3.09	•			6	094	<i>8</i> 3°	7.80	2		(523	932	2,43	3			870821
				G E	OPI	H Y S	I C A	L	DAT	Ą		N.a				O V E	RBUR	DEN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT -	Mile	-		DEPTH		сом	POSITION
1:200	7				سا	-			سا	-	سيا	1						
1:20		レ	سسا		L	-			س ا	-								

							ING		TION				
SEAM		DRILLED INT		AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
GI		24.76 - 25 25.64 - 25	5.64	-									
GZP		25.64 - 25	5.90										
62		25.90-26	5.64										
6 38 ©		2664-26							· · · · · · · · · · · · · · · · · · ·				
63		26.85 - 2	8.14										λ
<u>@</u>		24.76 - 28	3.14										
J		48 25-53	1.28										
KIP		5328-53	3.90										upper! hi ash
KI		53.90-5	5.62										
				-									
K2A)	55.62-6						<u></u>					
k2		61.62 - 6	2.80					<u> </u>					mid. biash lowersp
<u>-</u> -			···					-	····				

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PAGE /	O.F.	2_

HOLE N	IUMB	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	T	JATC	DEPTH	CORE SIZ	E	MAP/	SEC	TION NUMBER
QHRE	370	47		9	0_							79.	0	5% "Rot				
		7			. 16.411	U. T	. M .	C O	ORD	NA	TES					DATE (from /		
COLLAR	ELEVAT	ION			וי	`'''N O R	тн						E A S	S T		DRILLE	E D	CORE LOGGED
838	3.7.	3		e	094	492	2,28	3 <u> </u>				62	1397	7.78				870822
				G E	OP	HYS	1 C A	L	DAT	4					0 V	ERB	URD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	\$LANT ∡			DEPTH			сомі	POSITION
1:200				~	1				<u></u>	~								
					V													

	<u></u>	<u> </u>	ore – Lo	90 Y1	hough	rocks	only_	ex ce		eviation			
		_			J	MIN	IING	S E C	TION				
SEAM	ELEVATION (BASE)	DRILLE	D INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
		X P	icks -	from	1 L	SD							
Fi		13.78	- 14.16										
F2P		1	- 14.46										
		1	-17.91	<u> </u>									
F2 (E)		13.78	-17.91				<u> </u>		-				
51		39.64	- 40.68				. ,						
G2P			- 41.05						·				
62			- 40.80						,				
531	<u> </u>	40.80	- 42.10						.				
<u>83</u>	<u> </u>	42.10	- 43.23										
র ও ভ		39.64	-43.23										
			····	ļ			<u> </u>						
		 		<u> </u>			ļ		<u></u>				
1		59.72	2-66.28	ļ	<u> </u>								

FORM 79-0850-ROT

Quintette Coal Limited
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PROJEC	r		
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																			Or
HOLE			<u>H</u>	OLE	ANG	<u>LE</u>	CO	LLAR	BEAR	<u> ING</u>	<u> </u>	OTAL	. DEP	'TΗ	CORE	SIZE	MA	P / SEC	TION NUMBER
QHR 8	8701	4 7																	
					[p. 14.1	U. T	. M .	C O	ORD	INA	TES							DAT	「E (from / to)
COLLAR	ELEVAT	10N	ļ			''N O R	TH				<u> </u>			EAS	T		DRI	LLED	CORE LOGGED
						1													
				GE	OPI	HYS	I C A	L !	DATA	A						C	VER	BURI) E N
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	\$LANT ∡⊄				DE	PTH		сом	POSITION
			<u> </u>				ļļ	<u> </u>	<u> </u>										
			1				_]				

	MINING SECTION EAM ELEVATION DRILLED INTERVAL AVG. TRUE COAL/ROCK RECOVERY INTERSEAM DATE DATE SAMPLE COMP. COMMENTS THICKNESS DRILLED SAMPLED TAG No. LAB No. COMMENTS														
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY		DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS		
KIA)	66.28-	67.44					•	•		₹				
KIF KI		67.44	67.44 -68.98										upper pat his ash		
K2.P)	68.98.	-7554 -76.19					-							
<u>K2</u>		75,54.	-76.19		-								lower of his ash.		
									,						
							_								
										- "					



PROJECT_	TRANSFER
PAGE	OF 2

HOLE N	IUMBI	ĒR	Н	OLE	ANG	LE	CO	LLAR	BEAR	IING	Ţ	JATC	DEPT	ГН	CORE	SIZE	MA	P / SEC	TION NUMBER
QHR8	4R87048 90°								/	//-3	0		54"Ro	/					
					.th +11	ຸ ປ. T	. M.	СO	ORD	INA	TES							DAT	E (from /to)
COLLAR	COLLAR ELEVATION "NORTH											LLED	CORE LOGGED						
836	82	-		6	09	500	5.9	7				62	140	37.	45				870823
GEOPHYSICAL DATA								4		مند				0	VER	BURD			
SCALE	DEN	BRD	LSD									тн		COM	OSITION				
1:200	1					u			_	<u></u>	_	1							
1:20	20 - - -																		

						MI	NING	SEC	TION				
SEAM		DRILLE			G. TRUE I.N. THICKNE	ss COAL/ROC	KRECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
δ	a	Tops) Ho	'a ?									
E3		27.3	2-289	0				<u></u>					
													
FI		47.4	9-47.9	3									
F2P		47.9	3-48.1	7									
F2		48.17	- 51.8	_ ه									
F2 (F)		47.4	9-51.8	0									
			···-										
GI		72.33	- 73.2	9									
G2P		73.20	7-73.5	3									
G2		I	3 - 74.2										
<u> G3</u> P		1	7 - 74,4	1									
63			6-75:										
63		72.33	3 - 75	4									

d
1

PROJEC	TR	- A4/	SFER	
PAGE	2	OF	2_	

										$\overline{}$										
HOLE 1	<u>NUMB</u> I	ER	H	OLE	ANG	LE /	CO	DLLAR	BEAF	RING	TC	LATC	DEPT	r <u>H</u>	CORE :	SIZE	MAP	/ SEC	TION NUA	ABER
QHR	<u>870</u>	48																		,
					th ey.		. M.	CO	ORD	JINA	ATES							DAT	E (from /	to)
COLLAR	ELEVAT	ION	ļ			''N O R	,TH							EAS	Τ		DRIL	LED	CORE L	OGGED
				G F	OPI	HYS	I C A	L f	DATA	A						0	VERB	3 U R D	ΕN	·
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT 4				DEPT	тн		COMP	OSITION	
				'	'		į į	1	1			· , [,		
							1						[
		1								1	. I		1	, ,						

			*********		MIN	ING	SEC	TION	·····			
SEAM	ELEVATION (BASE)	DRILLED INTERVA	L AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
J		94.07-98.5	7									
KIP		98.57-99.3	4									
KI		98.57-99.3 99.34-100.6	8									upper part hi ash.
大2.F		100.68-105.8	7									
K2		100.68-105.8 105.87-106.59	3									excl. Low himsh spl
•												
<u>K3</u>		107.65-107.9	6									
								·				

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S)	Quintette Coal	Limited

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PAGE _____ OF ____

HOLE N	IUMBI	ER	<u> </u>	OLE	ANG	LE	CO	LLAR	BEAF	≀ING	TC	OTAL	DEPT	H	CORE SIZE	MA	P / SEC	TION NUMBER
QHRE	<u> 370</u>	49		9	0 "					!	<	90.8	5 m		S# "Rot.			
					11.41.	U. T.		CO	ORD	JINA	ATES						DAT	E (from /to)
COLLAR E	LEVAT	ION	<u> </u>			NOR	TH							EAST	T	DRI	LLED	CORE LOGGED
841	.24			66	<u> 294</u>	78	<u>⊘'3</u>	<u>:3</u>		·	(623	870	6.6	5			870823
				GE	OPI	HYS	I C A	L ſ	DATA	A					ı	OVER	BURE	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		сом	POSITION
1:200	V				V	V												
1:200			V		V													

* LOGGED THROUGH Rods MINING SECTION TRUE THICKNESS INTERSEAM THICKNESS DRILLED INTERVAL DATE DATE SAMPLED SAMPLE TAG No. COAL / ROCK RECOVERY SEAM COMP. COMMENTS LAB No. COAL INTERSECTIONS 49-54 m 70-76 m 76.5-78.5m 80-81 m 83-84m EI? 25,76-26.24 Note: This is near water level & the log is "irregular". There is a possibility of thicker eval, although the drillers distant note it. G1 49.71-50.43 50.43 - 50.77 G2A 50.77-51.37

FORM 79-0850-RO1

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PAGE	2	OF	2	

																					·
HOLE 1	NUMB	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	Т	OTAL	. DEPT	ГН	CORE	SIZE	Ν	AP/	SECT	ION NU	MBER
OHR	870	49			·													,			
					19 ***	U. T	. M.	C C	OORD	NA	TES							ſ	DATE	E (from	/ to)
COLLAR	ELEVAT	ΠΟΝ				"NOR	:TH							EAS	T		D	RILLE	D	CORE	LOGGED
								•													
			·	G E	OPE	ΗΥЅ	I C A	L	DATA	Ā							OVE	R B U	J R D	EN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DE	PTH		(COMP	OSITION	1
						'															
				,	1 ,	, ,		1					. ,								

					MIN	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTERV	AL AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP.	COMMENTS
0												
& G3P		51.37-520										
୍ର ଓ		5200-53.2	4									
G3		49.71- 53.2										
I		70.69-75. 75.21-75	21									upper part his ash?
KIA		75,21-75	90									
K1		75.90-77.9	4					•			· · · · · · · · · · · · · · · · · · ·	upper f v. hi ash.
											···	
K2P		77.94 - 83.7	4									
KZ		77.94 - 83.7 83.74-84:	0									
								· · ·				
											-	

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PROJECT	SR.	/22	LL/
PAGE	1	O.F.	7/

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HOLE NUMBER	R HOLE	ANGLE	COLLAR BE	ARING	TOTA	AL DEPTH		RE SIZE	MAP / SECTION NUMBER		
OHR8705	0 90	<u> </u>			9	1.8	54	"Rot			
1		" , U. T	.M. COO	RDINA	ATES					DATE	(from /to)
COLLAR ELEVATION		NOR	тн			E	AST		DRILL	ED	CORE LOGGED
844.50		60952	63.27		62	4327	7.41			1	370824
	G E	OPHYS	ICAL DA	TA	,	····		0	VERB		
SCALE DEN	BRD LSD HRD	GAM NEUT	FBE FBS CA	AL DIR	SLANT		1	DEPTH		СОМРО	SITION
1:200 V		VV									
1:20	<u></u>	اسا									
* 4	ogged th	rough r	och.	KL	ste de	d not	doil	1 6060	Hom SI	K. Ca	silla's impation
* Hicks	from LSD		MIN	II N G	SEC	TION				(rilla's impation
	DRILLED INTERVAL	AVG. TRU B.C. N. THICK	IESS COAL / ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	co	MMENTS
1)1 / 1)2 / 1)2 /	16.32 - 17.71										
120	17.71 - 18.34										
12	18.34-19.58										
\bigcirc	16.32 -19.58										
E3 4	49.48-51.8	150d 001	t from gene	1 /6	<u> </u>					hia	1
			i om gene	4	97					19 62	3.5
FI T	75.43-75.72										
	75.72 - 76.09										
	76.09-79.53	1/	over 1 (78.00	-79.53	مراف	ry hi. o	oh)		<u></u>	,
	75.43 - 79.53			<u> </u>							:
				 	·						
							:			<u> </u>	
			· · · · · · · · · · · · · · · · · · ·	 							



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PAGE	1	0.5	/

HOLE N	IUMB	ER	Н	OLE	ANG	LE	CO	LLAR	BEAF	RING	TO	DTAL [DEPTH	CORE SIZE	MAP/SEC	TION NUMBER
QHR	870	120		9	O 7	بز،						147.	7	St'Rot		
U. T. M. COORDINATES												DAT	E (from /to)			
COLLAR I	ELEVAT	ION				NOR	тн						ŧΑ	ST	DRILLED	CORE LOGGED
85	7.5	0		6	09	398	36.	57				62	272	8.37		871003
				GE	OPI	HYS	I C A	L 1	DAT	A				C	VERBURG	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT			DEPTH	сом	POSITION
1:200	1				سا	7			س	سا	<u> </u>					
														1		

					MIN	ING	SEC	TION		,		
SEAM		DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
Top	of Gettin	1 110.8										
Cool	'	<u>, 110.8</u> 114.98-115.50										
Coal	h I	115,75-115,92										
Coel		116,22-117.65										
C_{i}		130.34 - 1 30,97										
Coal Coal		131.25-136.86						•				
Coal		138,55-139, 8 1	73									Hiash-containspat
Coal		139.84-141.92	-						:			
Coal		142.74-142.87										

FORM 79-0850-ROI

7	Quintette Coal Limited

PROJECT	TRA	NSFER	W,
	/		

																			Or
HOLE N	IUMB	ER	Н	OLE	ANG	LE	CO	LLAR	BEAG	RING	Т	OTAL	DEPTH		ÇORE SI	ZΕ	MAP	/ SEC	TION NUMBER
OHR ?	970	252		90)						. /	1279	,	3	S.E. Rot	-			
					ner.	, U. T	. M .	CO	ORE	INA	TES		······································					DAT	E (from /to)
COLLAR	ELEVAT	ION			1	' [иоғ	RTH						Е	AST			DRILL	. E D	CORE LOGGED
95	1.88	3		60	938	829	7.3	1				62:	209	3.2	22				87 10 05
				GE	OPI	HYS	ICA	L	DAT	A						0	VERB	URI	DEN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH			сом	POSITION
1:200					I		-												
										-									

		<u> </u>	ods	only								
				/	A I M	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTER	VAL AVG B.C.	TRUE J. THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
Mb	16+ Co	tact 58	2./									
GT.	<u> </u>	67.0-69.	3	(Blod))						im	Rock fating Clean coal.
G72		74.6- 78.	4									Clean coal.
GT. GT:	3 uppy	848-85 86.6-88	5					•				
										1		
		(rick	pfn	m G'e	nera	¢ }-	- news	ronlog			
						-						

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PROJECT TRANSFER	W.
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HOLE NU	MBER		Ĥ	OLE	ANG	LE !	CO	LLAR	BEAR	RING	Т	OTAL	DEPTI	1	CORE SIZE		MAP / SE	CTION NUMBER
QHR8	705	3		90	20							86	m.		5% "Rot			
					16 411	, U. T	. M.	C C	ORD	NIC	TES						DA	TE (from / to)
COLLAR EL	EVATIO	N				NOR	(TH							EAST			DRILLED	CORE LOGGED
1034	79		- 6	309	140	70	.22		,			62	206	5.	95			871007
				G F	OP	H Y S	I C A	L	DAT	Α .						OVE	RBUR	DEN
SCALE	DEN B	RD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	S LANT				DEPTH		CON	APOSITION
1:200	'				U	سا			L	し								
								İ										

* Logged to 36.5 MINING SECTION (BASE) DRILLED INTERVAL INTERSEAM THICKNESS DATE DRILLED TRUE THICKNESS COAL / ROCK RECOVERY DATE SAMPLED SAMPLE TAG No. SEAM COMP. COMMENTS LAB No.

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PROJECT_	TRANSFER	W.
0 4 6 6	1 05 1	

HOLE	JUMBI	R	Н	OLE	ANG	1 E	CO	IIAR	BEAR	RING	Τſ	ΤΔΙ	DEPT	ТН	CORE SIZE	۸۸	AP / SEC	TION NUMBER
QHRE] -		30			22711	0		<u> </u>	99.		, , ,	CONE SIZE		M / 3L	TION NOMBER
	<u></u>	<u> </u>	<u>. </u>		<i>ب</i> ن (U. T	. M .	C O	ORD	NA	TES						D A 1	TE (from / to)
COLLAR	EL EVAT	ION			1	, иог	RTH							EAS	Τ	D	RILLED	CORE LOGGED
104	9.4	+3			60	942	201	7.2	1			62	20	91.	59			871007
				GE	O P	HYS	I C A	L I	DAT	A				·		OVE	RBURI	DEN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		СОМ	POSITION
1:200	u				L	سا			سيا	L	<u>_</u>							
												,						

						MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
													
Kz		3.75'-	5,28										
Li	gamma?	<4.14 - 1	Ľ4.9u										Coally
<i>γ</i> ν													Contra
	-												
								· · · · · · · ·					
	······································												
								-					
				·									
								<u> </u>					

2	Quintette Coal Limited

PROJECT 7	PANSFER	W
PAGE	O.F.	1

																		•	
HOLE V				OLE	ANG	LE	CO	LLAR	BEAF	RING	T	DTAL	DEP	тн	CORE SIZ	E	MAP / S	SECT	ION NUMBER
QHR	874	288		9	00			,		, , , , , ,	4	5S,	6						
					14 -11	_ U. T	<u>. M .</u>	CC	ORD	INA	TES						D	AT	E (from / to)
COLLAR E	ELEVAT	ION			1	NO	TH							EAS	Τ		DRILLED	,	CORE LOGGED
89	10.0	45		60	93	811.	20					62	25	606.	62				871007
,	r		· · · · · · · · · · · · · · · · · · ·	G E	OP	HYS	I C A	Ĺ	DAT	Α		•				0 \	/ E R B U		
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	5LANT				DEPTH		C	ОМР	OSITION
1:200	<u></u>				~	1			~	レ	4								
	سيا				سا				سسا										

						M I N	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED II	NTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
Coal Tool		12.80-1	3 <i>.5</i> 7										
oal		13.95 - 1 23. 0 4-	5,35		1								
rel		73.04-	26.69										
oal		33,63 -	34./3									-	
- 1											·		
and		34.71 -	36.28										
						,							
							ļ						



PROJECT	TR	ANSFER	W
D A C E	1	0.5	

HOLE N	IUMBE	ĒR	Н	OLE	ANG	LE	CO	LLAR	BEA	RING	T	DTAL	DEP	ГΗ	COR	E SIZE		MAP	/ SEC	TION NUMBER
QPR &	870	256		62.	83	0	(747	32°	•		91	3					-		
					m er	,U. T	. M.	CO	ORD	NIC	TES								DAT	E (from /to)
COLLAR E	ELEVAT	ION			• 1.	NOF	RTH							EAS	T			DRILL	. E D	CORE LOGGED
ි සිර	7.5	1			60	938	369	150)			62	13/	34.	02					871009
				G E	O P I	HYS	1 C A	L	DAT	A							0 V	E R B		, ,
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				D	EPTH			COMP	OSITION
1:200	لخسيا				اس	V			V*	7	1 79	,								
								·												

* 6 33.3 m.

		<u> </u>			MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
Coal	?	5.27-5.81										
Coal		10.23-10.93										
Coal		18.02-18.81			,		-					himh
Coal		22,33-25.45					-					
Coal		26.60 - 29.72										
Co.	;	20.28-30.5					-					
Gl		75.2-82.3					-					
							-					



PROJECT	TK	ANSI	FER	W.
DAGE	1	0.5	7	

HOLE	VUMB	ER	Н	OLE	ANG	LE	CC	LLAR	BEAR	ING	T	JATC	DEPT	Н	CORE S	SIZE	MAP	/ SEC	TION NUMBER
QHRE	370	57		90	2							91.	3		54"R	oγ.			
			,		<u> </u>	, U. T	. M.	CC	ORD	INA	TES							DAT	E (from /to)
COLLAR	LAR ELEVATION EAST								DRILL	. E D	CORE LOGGED								
876	376.83 6094089.28 623303.90											871011							
				G E	O P	HYS	I C A	L	DATA	4						0	VERB	URD	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH			COM	OSITION
1:200					<u> </u>	سا													

	MINING SECTION													
SEAM		DRILLED I	NTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP.	COMMENTS	
Cg	2	0-8	15											
<u>L</u> o	mer Ga	Thing	8.5-	62.	8									
(a	domin	26	2.8-	> >	7.0.									
													, ,	



PROJECT	TRan	usky	W.
DACE	. <i>j</i>	<i>V</i>	7

																		'
HOLE V	IUMB	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	TO	JATC	DEP.	ТН	CORE SIZE	MAP	/ SEC	TION NUMBER
QHRZ	970	58		90)							79	.2		S'Z'Rot			
					-, th (1).1	U. T	. M .	CO	ORD	INA	TES			,			DAT	E (from /to)
COLLAR		ION		,		NOR	тн				<u> </u>			EAS	Т	DRIL	LED	CORE LOGGED
<i>6</i> 81.	<u>64</u>				6094282.63 623438.87										871011			
_,		•		G E	OPI	H Y S	I C A	L 1	DAT	A			•		C	VERB	URD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT 4				DEPTH		сомі	POSITION
1:200					/	7												

	MINING SECTION													
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE \$AMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS	
		<u>, </u>												
	M6/	64?	46.5	Ti.										
			41.2	~ <	C. C. C. C.	crelit.)	27 705	1					
_								- 700	f					
								<u>.</u>						
	<u></u>													
_														
									ч,					
			· · · · · · · · · · · · · · · · · · ·						*15					

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PROJECT	TRO	UNSFI	ER	
PAGE	1	OF	/	

HOLE N	IUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	TC	DTAL	DEPT	Н	CORE SIZE	MAP	/ SEC	TION NUMBER
QHRE	970	59		9	00						190.6 St. Rotan			·				
		· · · · · · · · · · · · · · · · · · ·			15:11	<u>, U. T</u>	. M.	CO	ORD	NA	TES						DAT	E (from / to)
COLLAR	ELEVAT	ION				NOF	RTH							EAS	T	DRIL	LED	CORE LOGGED
1368	3.63			۱۰ (609	159	42.	95				62	139	72.	13			87 12 09
				G E	ОР	HYS	1 C A	L	DATA	Δ					C	VERB	URD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COM	POSITION
1:200	V				V	V	V		レ	<u></u>	レ				2m			
															V"			

	MINING SECTION													
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C. N	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS	
DI		48.8-	49.6											
D2P	- 1	49.6 -			م مر									
<u>D2</u>		49.8 -												
D3P		50.9 -								:				
D3 (D)	1	<u> </u>		\										
(<u>D</u>)		48.8 -	\$2.1	M					•					
ΕI		73.0-	74.1	00					<u> </u>			<u> </u>		
(, , , , ,	7										
E3		101.9-1	04.8	hi				-					hi ash-incl Cowarepl	
FI		140.4- 1	142.15	-			,		11					
FzP		142.15 -	-142,85											
Γ2 (5)		142.85 -	149.85	J)										
(F)		140.4-	149.85											



PROJECT.		
PAGE	1 OF /	

HOLE N	IUMBI	ER	Н	OLE	ANG	LΕ	CO	LLAR	BEAR	ING	Ţ	JATC	DEPT		CORE SIZE	MAP/	SECTION NUMBER
QHR	870	60		9	0	•			_			<u> 80</u>	.3		S# Rot.		
					. (1) • (1)	JU. T	. M.	CO	ORD	INA	TES					C	ATE (from / to)
COLLAR E	EL EVAT	ION			1 11 11	· NOR	тн							EAS	T	DRILLEC	CORE LOGGED
134	6.00	7		6	09	57	49.	25				62	-15	<u>03,</u>	17		
				G E	OPI	H Y S	I C A	L !	DAT	4					0	VERBU	RDEN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE,	FBS	CAL	DIR	SLANT				DEPTH	C	OMPOSITION
1:200	V				レ	L	1		レ	_	レ				7		
															3m		

	MINING SECTION												
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL / ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS	
GI	:	32.0- 33.4	•	•									
PZD		33.4 - 33.55											
<u>62</u>		33.85-34.9											
63P C3		34.9 - 35.4 35.4 - 37.8		= Den	sitylog	h	mu - mal	ian "Oi'de	"di lia	08.		wich Cower hiash gone	
G3 B		32.0 - 37.8				7	7		30.00				
J		56.7-64.1				-							
KIP		64.1-65.3											
Ķ I		65.3 - 67.4										wich hi ash upper KI	
<u> </u>		67.4 - 69.5						h				has cont parting	
K2_		67.4 - 69.5						. In				has cont parting incl. Lower split	
				,									



PROJECT_	TRANSFER
PAGE	1 05 2

HOLE	NUMBI	ER	HOLE ANGLE COLLAR BEARING							ING	TC	TAL	DEPTH	1	CORE SIZE	MAP	MAP / SECTION NUMBER		
QHRE	3706	51			70			,				99	1.2		St"Rot				
U. T. M. COORDINATES												DATE (from / to)							
COLLAR	ELEVAT	ION		15		NOR	TH							EAST		DRILL	E D	CORE LOGGED	
152	7.81	<i>,</i>	6095928.12								6	20	879	5.61				871213	
				G E	ОРІ	HYS	1 C A	L I	DATA	4					C	VERB	URD	ΕN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COMP	OSITION	
1:200	ン				<u>_</u>	-	Ì		し	L	<u></u>			Ì	A				
															Am				

					MIN	ING	SEC	TION				
EAM	ELEVATION (BASE)	DRILLED INT	ERVAL AV	/G. TRUE C.N. THICKNESS	COAL / ROCK R	ECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
FI		17.0 10										
·2Ρ		17.9 - 18. 18.4- 18.1 18.7 - 23	7									
F2		18.7 - 23	15									
F2 F)		17.9 - 23	15									
3 (gl.	·33,3-56	15									
							<u></u>					
G1		56.15-57	12									
52P		57.2 -57										
52 53 <i>P</i>		<u> 575 - 58</u> 585 - 59										
		59.2 -60	.6					11				
€3 ⑤		56.15-60	٥.6									
								<u> </u>				EDD11 70 - 086

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PROJE	C T	

HOLE N	IUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEA	RING	Т	OTA	DEP	тн	COI	RE SIZ	E	MAI	/ SEC	TION NUM	BER
QHRE	970	61								·									·		
					. algert et	, U. T	. M.	C C	ORE	NIC	TES					***		•	DAT	E (from /	to)
COLLAR E	LEVAT	ION		1		NOR	TH							EAS	T			DRIL	LED	CORELO	OGGED
			Ì	٠,				•										·			
				G E	O P	HYS	ICA	L	DAT	A	·						0	VER	BURD	EN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	S LANT				C	EPTH		· · · · · · · · · · · · · · · · · · ·	COM	POSITION	
]						

						MIN	ING	SEC	TION				
SEAM	(BASE)	DRILLED	INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
							ļ						
1		75.5-	80.4						·				
KIP		80.4-	81.3										
FI		80.4 - 81.3 -	82.6		•••								in cl. Klupper-fias
K2P		82.6 -	83,25		•								
KZ.		83,25	-84.95						•				ind. Lower split
	:												
			_						** .6				
									γ -1+			· · · · · · · · · · · · · · · · · · ·	
													500 H 70 - 0850 -



PROJECT	<u>TRANSFER</u>	
D . O .	1 00	. 2

HOLE N	UMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAF	RING	TOTAL DEPTH COR				ORE SIZE	MA	P / SEC	TION NUMBER
QHR87	062			90							178.9 51/4" ROT							
					414***	, U. T.	. M .	C O	ORD	NA	TES						DAI	「E (from / to)
COLLAR E	LEVAT	ION	NORTH										E	AST		DRI	LLED	CORE LOGGED
1544.	99		6096057.41								62	0103	3.84					87 12 13
				G E	OP	HYS	I C A	L	DAT	A	OVERB						BURI	DEN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		сом	POSITION
1:200	V				V	V			V	~	~				···			
															6m			

SEAM	ELEVATION (BASE)	DRILLED IN	NTERVAL	AVG. B.C. N.	TRUE THICKNESS		ING	INTERSEAM THICKNESS	TION DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP.	COMMENTS
	10000			U.C. 14.	MICKNESS	·		INICKNESS	DRILLED	SAMPLED	IAG No.	LAB No.	COMMENTO
B		25.1- Z	6.2										
C		45.2-4	7.5										Y. high ash-correlation
hi go	лта	69. 3			,								``
DI/D2	<u>-</u>	87.4 - 8	9.2										
D3 P		<u> 89.2 - 9</u>	0.7										
D3		90.7-9	1.4										
D7/P		91.4-9										•	
D 4		91.9-9	2.9										
									•				
_		 .											
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FORM 79-0850-PO

Quintette Coal Limite	d
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PROJECT	TRANSFER

Qui	HICKLO	, Quai	F3111116	EU													P A	AGE	2		OF _	<u>_3</u>	
HOLE N	JUMB	ER	Н	OLE	ANG	LΕ	CO	LLAR	BEAR	RING	T	OTAL	DEPT	ГН	COR	E SIZE		MAP	/ SEC	TIO	N NU	MBER	
QHR8	7062																						
					<u>د د د بالد</u>	ູ່ປ. T	. M.	CO	ORD	INA	TES								DA.	TE	(from	/to)	_
COLLAR	ELEVAT	101		1		NO I	RTH.							EAS	T			DRIL	LED	7	ORE	LOGGE	D
				•,				•															
				G E	ОРІ	HYS	I C A	L !	DAT	A							0 V	E R B	URI	DE	N		
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				D	EPTH			COM	POS	10111	4	
							, 																
															1								

				· · · · · · · · · · · · · · · · · · ·	MIN	ING	SEC	TION	·			
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL / ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
							-					•
ΕI		107.6-108.0										
EZP		108.0-108.4										Thigh ash.
E 2		108.4-109.95										
E3P		109.95-111.25										
EЗ		111.25-112.0										excl. lower high
							<u> </u>					excl. lower high
FL		129.2-129.8										,
F2P		129.8-130.2		 .								
F2_		130.7-133.6										
F 2 F		129.2-133.6										
								A 1				
				 -							. <u>-</u>	



PROJECT TRANSFER

PAGE ______3_ OF __3_

HOLE	NUMB	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	T	OTAL	DEP	TH	CORE	SIZE	MA	P / SEC	TION NUMBER
QHDE	37067	2																	
					Ifs: 1.3	, U. T	. M.	C O	ORD	NA	TES							DAT	E (from / to)
COLLAR	ELEVAT	ΠΟΝ		, ,	*	NO	ТН							EAS	Т		DRI	LLED	CORE LOGGED
						ś													
				G E	OPI	HYS	I C A	L	DAT	A						C	VER	BURD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	5LANT				DEF	РТН		COW	POSITION
										' '	,								
						-												4	
						1	L	1	L	J	.11	L		I	1				

			-		•	MIN	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED IN	ITERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
į					•								
3 <i>Cg1</i>		157.8-16	50.1										
GI_		160.6 -16	1.75						***				
G2P		161.75-16	1.95					-					
G2		161.95-1	62.8										
G3P		162.8-16	3.2										
63		163.2 - 16	L										
G3		160.6 - 16	64.5										
									•				
J _	(TOP)	178 1-17	8.9										
									•				

Quintette Coal Limited

PROJECT_	TRI	HUSFE.	R
PAGE	1	OF 2	

HOLE 1	NUMB	ER	Н	OLE	ANG	LE	CC	LLAR	BEAF	RING	T	OTAL	DEPTH		CORE S	IZE	MA	P / SEC	TION NUMBER
QHRE	870	63		90	י כ			•			1	09.	9		SÉ Rot			•	
					<u> </u>	U. T	. M.	CC	ORE	NIC	TES						· · · · · · · · · · · · · · · · · · ·	DAI	E (from / to)
COLLAR	ELEVAT	ION		1		NOI	RTH						E	AST			DRII	LED	CORE LOGGED
1508	3,25	_		6.0	096	27	9.5	4				6:	201	68,	56				871214
				G E	ОР	HYS	1 C A	L	DAT	A						0	VER	BURE	DEN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	S LANT				DEPT	н		COW	POSITION
1:200	3				V	V									Δ				
				Ko	DS	c	nli	1							3 WI				

	MINING SECTION EAM ELEVATION DRILLED INTERVAL AVG. TRUE COAL/ROCK RECOVERY INTERSEAM DRILE SAMPLE COMP. COMMENTS														
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS			
El		15.2 - 15.7													
E2P		15.7 - 16.3													
<u>E</u> 2		16.3-19.1													
E3P		19.1-20.8					,								
E3		20.8-22.2													
FI		44.2 - 44.8													
FZP		44.8 - 45.3													
F ₂ (F)		45.3 -48.8						•							
(F)		442 - 48.8		l											
61		69.3-70.2													
921		70.2 - 70.6													
52		70.6-71.5						• ,							
G 3/		71.5 - 72.0													
53		72,0-73,4					<u> </u>								
<u>(G)</u>		89.3-73.4													

Quintette Coal Limite	d
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PROJECT		

															,	ı	PAGE			. OF _	
HOLE V	1 U M B F	ĒR	Н	OLE	ANG	LE	CO	LLAR	BEAR	≀ING	Ţſ	OTAL	DEPT	Ή	CORE	SIZE	M.A	AP/SE	ECTIO	MUM NO	IBER
QHR	870	63																			
					· : (15 · ' + 5	<u>, U. T</u>	. M .	CO	ORD	DINA	TES						T	D A	AT E	(from /	to)
COLLAR	ELEVAT	ION	<u> </u>	1		ŅOR	TH							EAS	T		DR	ILLED	1	CORE LO	OGGED
				GE	: O P I	H Y S	I C A	L 1	DATA	Ā						С	VER	BUR	DE	N	
SCALE	DEN	N BRD LSD HRD GAM NEUT FBE FBS CAL DIR SLANT DEPTH						TH		со	MPOS	SITION									
			'		1		, 1													'	
	1	·		 		(<u>,</u> ——→		\vdash		1 1		,								

					MIN	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY		DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
J		90.0-95.2									·	
KI	2	95.2-95.9										
KI	·	95,9-97,0		***********								
K21	>	95.2 - 95.9 95.9 - 97.0 97.0 - 98.3	\$									
KZ		98.3-99.5	1							···		
								· *** - * * * * * * * * * * * * * * * *				
										.==		
			-	-				•				
							-					
												·



PROJECT TRA	ANSFER	
PAGE/	_ OF	

HOLE N	IUMBE	R	HOLE ANGLE COLLAR BEARING							RING	TOTAL DEPTH CORE				CORE SIZ	E	MAP / SECTION NUMBER		
QHD8	706	4		90					_		/	03	6		5 = " Pot				
U. T. M. COORDINATES													•	DATE (from /to)					
COLLAR ELEVATION COLLAR ELEVATION										EAST						DRILLED	CORE LOGGED		
1499.61 6096360.01										620222.27						871214	871220		
GEOPHYSICAL DATA										A						0 1	VERBUR	DEN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COMPOSITION		
1:200					V	~									E				
				R	OD	S	0	nli							5m1				

						IING		TION				
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
D_		21.2 - 22.6				1.						
`				·								
EI		43.4 - 44.2			" " " " " " " " " " " " " " " " " " " "							
EZP		44.2 - 45.0										
2		<u> 45.0 - 45.8</u>										
3P		45.8-46.9										
₹3		46.9-48.4										
FI 3	?	68.0-68.4				1		•				
F2P	,	68.4 - 68.8										
FZ		68.8 - 73.z										
F		68.0-73.2										
FZ F)		91.9 - 92.8										
GZP		92.8 - 93.2										
62		93.2 - 94.2										
530		94.2 - 94.6						· · · · · · · · · · · · · · · · · · ·				
G3		94.6 - 95.9			·····							

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2	Quintette Coal Limited

PROJECT.	Transfe	,
DAGE	1 05 7	7

			Y																
HOLE	NUMB!	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	TC	DTAL	DEPTH	co	RE SIZE		MAP / SECTION NUMBER		
QHR	<u>87c</u>)(S		9	O'			*****	_		14	6.7	7	54	"Rot				
			,	,	aller a		. M.	C O	ORD	INA	TES	,						DAT	E (from /to)
COLLAR	R ELEVATION HE SENORTH											EA	ST			DRIL	LED	CORE LOGGED	
15	19.1	31	6096311.43							619929.82								871216	
				G E	OP	HYS	I C A	L I	DATA	4						0 ۷	OVERBURDEN		
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH			сом	POSITION
1:200					۰	~									7				
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	MINING SECTION														
SEAM	ELEVATION (BASE)	DRILLED INT	ERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP.	COMMENTS		
hi	gamma.	_19.6													
D		50.B - 5	2. <i>0</i>												
ΕI		90.5.01					<u> </u>					· · · · · · · · · · · · · · · · · · ·			
E2ρ		80.2 - 81.0 81.0 - 81.4	t t					-							
É2		81.4-83.	.0						-			V	hi ash.		
E3P		83.0 -83	.5												
E3		<i>83.5 - 85</i>	.4										excl. Cower split		
FL		105.8- 10	5.2					-					hiash.		
F2P)	106.2-10													
F2	_,	106.7-11	0.75						;						
E		106.7-110													
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FORM 79-0850-ROI

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HOLE N	NUMBE	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	T	ATC	. DEP1	ГН	CORE SI	ZE	MAP	/ SEC	TION NUMBER
OHR	870	65/		·															
							. M .	C C	ORD	NIC	TES							DAT	E (from /to)
COLLAR	ELEVAT	ION		1	14 14	¹ NOR	TH							EAS	Τ		DRILL	ED	CORE LOGGED
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				GE	O P	HYS	I C A	L	DAT	A						0	VERB	URC	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH			COM	POSITION
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	MINING SECTION													
SEAM	1011021			-74-17	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP.	COMMENTS	
G	Posl	129.2-13	30.5											
GI		131.4-13	2./											
620	i i	132.1 - 1												
52		13.2.3-1				-								
<u>638</u>		133.5-13	1											
(A)		134.0-13											Contains sock parking.	
(G)		130.4 - 1	35.7											
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HOLE N	1UMB	ER	Н	OLE	ANG	LE	CC	LLAR	BEAR	RING	T	OTAL	DEPTH	1	CORE SIZE	MAP	SEC	TION NUMBER
QHR 8	<u>870</u>	166		90	i							8sî	.2		52:R+			
						U. T	. M.	C C	ORE	NIC	ATES						D A I	[E (from / to)
COLLAR	ELEVAT	ION		<u> </u>	,	NOF	RTH						E	EAST		DRIL	LED	CORE LOGGED
1505	5.69	}		6	09	63	22	.92	-			62	-00	77.	60			871217
				GE	EOPI	HYS	ICA	L	DAT	Ā					(OVERE	3 U R I	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	ÇAL	DIR	SLANT				DEPTH		COW	POSITION
1: 700	,				~	~									1 .			
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	MINING SECTION													
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS		
E)		27.2 - 28.2												
E2P		28.2 -28.5				v						V. hi ash		
EZ		28:5 - 29.8												
ЕЗР		29.8 - 3 <i>0</i> .9												
€3		30.9-32.0										,		
FI		62.1-62.8												
F2P		62.8-13.3												
F2		62.8-13.3 63.3- 87. 1												
F2 F		62.1 - 67.1									**************************************			
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HOLE NUMBER	HOLE ANGLE	COLLAR BEARING	TOTAL DEPTH	CORE SIZE	MAP / SECTION NUMBER			
QHR87067	90	_	42					
,	" U.	T.M. COORDINA	TES		DAT	E (from / to)		
COLLAR ELEVATION	NO	RTH	EA	ST	DRILLED	CORE LOGGED		
1499.61	.6096	417.41	61999	5.34	871218			
1	GEOPHYS	ICAL DATA		0	VERBURD	EN		
SCALE DEN BR	_	I 100 100 I CAL DIK	SLANT #	DEPTH	СОМІ	POSITION		
Rods	STUCK - had to P	Molo	35	9m	,			

MINING SECTION													
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
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HOLE	IUMBE	:R	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	T (DTAL	DEPTH	1	CORE SIZE		MAP / SECTION NUMB			
QHR 8	370	68		9	0						,	79.	3		Sti Ret					
	U. T. M. COORDINATES															DATE (from / to)				
COLLAR	ELEVAT	ЮИ		1		NOR	TH						Į.	EAST			DRILLI	E D	CORE LOGGED	
148	84.15 6096527.44 620065.10									D				87-12-19						
GEOPHYSICAL DATA																0 V	E R B	URD	EN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH			COM	OSITION	
1:200					し										Q		· · · · · · · · · · · · · · · · · · ·			
				Cool	ما	مرد	4								5m					

	MINING SECTION														
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS			
'C'		19.6- 22.8									,	Correlation aly			
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Lái	g anna	46.8													
	U														
		65.7-67.6						<u>.</u>		****					
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FORM 79 - 0850 - RQ1



PROJECT PAGE 1 OF 1

HOLE NUMBER HOLE ANGLE COLLAR BEARING TOTAL DEPTH CORE SIZE MAP / SECTION NUMBER QPR87001 73.5 COORDINATES U. T. M. DATE (from / to) COLLAR ELEVATION NORTH EAST CORE LOGGED DRILLED 6105215.21 918.24 871015 612398.18 GEOPHYSICAL DATA OVERBURDEN STAIIT SCALE DEN 150 GAM NEUT FBE FBS BRD HRD DIR CAL DEPIH COMPOSITION :200

	MINING SECTION														
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG BCN	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP LAB No	COMMENIS			
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HJ11		,				~									
7	<u> </u>	29.5-30.0	···········					• • • • • • • • • • • • • • • • • • •			i				
14.0	Gamia 7	45.9										· · · · · · · · · · · · · · · · · · ·			
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HOLF NUMBER	HOLF	ANGLE	COL	LAR BE	ARING	Ţ	OTAL	DEPT	ГН	CORE SIZE	MAP/SE	CTION NUMBER	
QPR87002		70'			- *-		60	ر کی در		,			
		U.	T. M.	C O O	RDIN	ATES					DA	TE (from / 10)	
COLLAR ELEVATION		ИО	ŔĬН						EAS	T	DRILLED	CORE LOGGED	
954.63		6104	982	.65			6/3	20	49.	34	1	871014	
	G	EOPHYS	ICAL	. DA	TΑ					C	OVERBURDEN		
SCALE DEN BRD	LSD HRD	GAM NEUT	FBE	FBS C	AL DIR	SLANT •*				DEPTH	COA	APOSITION	
1:200		VV			- 4								

MINING SECTION														
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG B C, N	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No	COMP.	COMMENTS		
G ?	?	1.1-2.3		1.2				- 			-			
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II		14.4-19.6	<10°	5.2	·+			THE PARTY OF THE P	e laguatem norm — norm de como, empo, grocosco co					
J2P	ŀ	19.6 - 20.9)	1.3			每							
J2		20,9-22.9)	2.0										
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HOLE NU	UMBE	ER	H	OLE	ANG	LE	CO	LLAR	BEAR	ING		DTAL		ſΗ	CORE	SIZL	MAP / SECTION HUMBE		
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			,			U. T	. M .	C 0	ORD	INA	TES							DAT	E (from /to)
COLLAR EL	EVAT	ION				NOR	TH							EAS	T		DRIL	t t D	CORE LOGGEL
945	.01				61	051	31.	43				61	216	6.3	36				871015
GEOPHYSICAL DATA																0	VERB	URD	EN
SCALE	DLN	BRD	เรย	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT 45				DEP	ĭΗ		COMI	POSITION
1:200	سا	V		[レ	سا			سما	سا	سا								-

	MINING SECTION														
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG B C-11	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSLAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE IAG No.	COMP LAB No	COMMENTS		
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HOLE ANG	SLE CO	LLAR BEAL	UNG	TOTAL	DEPTH	CORE SIZE	MAP / SEC	TION NUMBER
90				37.	9	SZ Rot		
		DAT	E (from / to)					
	NORTH				EΑ	ST	DRILLED	CORE LOGGED
610	5276.	67		612	2307.	37		871015
GEOP	0	VERBURD	ΕN					
LSD HRD GAM	NEUT FBE	FBS CAL	DIR	SLANT 4		DEPTH	COMI	POSITION
- L	-							
	90 610 GEOP	90 U. T. M. NORTH 6/05276. GEOPHYSICA LSD HRD GAM NEUT FBE	U. T. M. COORE NORTH 6/05276.67 GEOPHYSICAL DATA LSD HRD GAM NEUT FBE FBS CAL	U. T. M. COORDINA NORTH 6105276.67 GEOPHYSICAL DATA 1SD HRD GAM NEUT FBE FBS CAL DIR	U. T. M. COORDINATES NORTH 6/05276.67 GEOPHYSICAL DATA 1SD HRD GAM NEUT FBE FBS CAL DIR SLANT	90 U. T. M. COORDINATES NORTH EA 6105276.67 GEOPHYSICAL DATA 1SD HRD GAM NEUT FBE FBS CAL DIR SLANT U U U U U U U	90 U. T. M. COORDINATES NORTH EAST 6105276.67 GEOPHYSICAL DATA OLIST HRD GAM NEUT FBE FBS CAL DIR SLANT DEPTH	90 U. T. M. COORDINATES DAT NORTH 6105276.67 GEOPHYSICAL DATA OVERBURD LSD HRD GAM NEUT FBE FBS CAL DIR SLANT U. U. U. U. U. U. U. C. OMF

	MINING SECTION SEAM ELEVATION DRILLED INTERVAL AVG TRUE COAL/ROCK RECOVERY THICKNESS DRILLED SAMPLE TAG NO LAB NO COMMENTS														
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG B C. N	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No	COMP LAS No	COMMENTS			
					 						- -				
J/		13.08 -20.12	<u> </u>	7.04											
			7				·				•				
Jzp		20.12-21.77	<u>}</u> <0°-	1.65								a — All III.			
JZ		21.77 - 24.03		2.26											
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HOLE NUM	ABER	Н	OLE A	ANGL	Ε	ÇO	LLAR	BEA	RING	Ţ	STAL	DLPI	ΓH.	CORE	SIZE	MA	P/SEC	TION NUMBER
QPR87	7005		90	0						.	43.	3		S'-	Rot			,
	U. T. M. COORDINATES															DAI	[E (from / 10)	
COLLAR ELEV	COLLAR ELEVATION NORTH												EAS	ĭ		DRI	LLED	CORE LOGGED
923.	923.61 6105449.84										61	24	22	,97				871015
		_	GE	ОРН	1 Y S	I C A	L	DAT	A						(VER	BURI	DEN
SCALE DE										SLANT				DE	РТН		COW	POSITION
1:200 0	:200 V V V V V					<u>ا</u>	1					* ***********						
							- ~ * ~~~			-								

	MINING SECTION SEAM ELEVATION DRILLED INTERVAL AVG TRUE COAL/ROCK RECOVERY INTERSEAM DATE DATE SAMPLE COMP COMMENTS THICKNESS DRILLED SAMPLED TAG NO LAB NO COMMENTS														
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG BÇN	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No	COMP LAB No	COMMENTS		
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G		8.62 -	9,16	\supset	0.84				1						
				\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\											
11		25.65		X10°	5.55			N. O. Completion							
JZP			4.		1,66										
12		3186	- 212)	2.36	_ * _ * _ * _ * _ * _ * _ * _ *									
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Quintette Coal Limited

DRILL HOLE SUMMARY SHEET

PROJECT SliDE ARCa.

HOLE NUMBER HOLE ANGLE COLLAR BEARING TOTAL DEPTH CORE SIZE MAP / SECTION NUMBER 900 54° R.+. <u>QMR87135</u> 290.6 U. T. M. COORDINATES DATE (from / to) COLLAR ELEVATION NORTH EAST DRILLED CORE LOGGED 615507.452 1262.40 6101146.97 GEOPHYSICAL DATA OVERBURDEN SLANT SCALE DEN BRD HRD GAM NEUT FBE FBS CAL DIR LSD DEPTH COMPOSITION 1200

		10TE - 2	2 /	rens	Thro	ugh	nodo	be lo	e ho	le com	pleAin	
						1NG		TION			·	
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. BCN.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No	COMP LAB No.	COMMENTS
Sh	Stesbury	0-10.1m										
Bow	der Ch Fin	10.1 m-172	2.0 0									
										AN COMPANY OF THE PERSON AND THE PERSON AND	and the second second	
1/2	1 == 7	172.0 m - 28	282					· · · · · · · · · · · · · · · · · · ·	# * * * * * * * *		· •	
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0	d. 1	288.3-290										
(2) a	ms fre	200.5 210	<u> </u>						<u></u> .			· •- •- •- «- «» «» — « « « » «» « « « « » « « « « » « « « «
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Appendix T.2.2

Diamond Drill Holes



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HOLE N	UMBE	R	Н	OLE	ANG	LE	CO	LLAR	BEAR	ING	T(OTAL	DEPT	ſН	CORE	SIZE	MAF	/ SEC	TION NUMBER
Q4057	<u>0Ω</u> 1		_	-65	/ O			215	0		1	60.	79		Ho	Ż			
	U. T. M. COORDINATES															DAT	E (from / to)		
COLLAR ELEVATION NORTH														EAS	T		DRIL	LED	CORE LOGGED
(121,15 (e09(a 99,55												ن'' ي ي	• • • • •						8706 28
						HYS	1 C A	L [ATA	7	,					0	VER	BURD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				De	РТН		COM	POSITION
1.200	1.200 V				V	V	レ		レ	7	سا			_	8.	73 /			
1:20		V	し […]		V				V						Os.	76			

	MINING SECTION														
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG B C N	TRUE THICKNESS	COAL / ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No	COMP LAB No.	COMMENTS		
Δı		44,08	- 45.03					-					all missing		
F1 F2f		ļ -	68.91 69.15					-			1006	Ç1	all		
F2 (F)		69.15	5-7361 - 73.61		· · · · · · · · · · · · · · · · · · ·						10/1/03	£1(1001)			
କ ପ			-117.96												
G1 620		1	-118.46	ľ					THE STATE OF THE S	-	1003	C2			
62 63P		118.82	- 118.82 -119.88 -120.79		anaghanaga Ada a Iginaga Adapada						1004 1005 1004	C2 C2			
60		120.79	- /22./6 · /22./6		a to considerate gar						:1	C2			

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PAGE 2 . OF 2

HOLE N	NUMBI	ER	H	OLE	ANG	LE	CO	LLAR	BEAR	RING	Т	OTAL	DEP	ТН	COR	E SIZ	E	MAI	/ SEC	TION NUI	иBER
QHDE	<u>870</u>	01																*****			
						U. T	. M .	C C	ORD	INA	TES								D A 1	E (from ,	/ to)
COLLAR	COLLAR ELEVATION NORTH													E A S	ī			DRIL	LED	CORE	OGGED
				G E	OP	HYS	I C A	L	DAT	A							0	VER	BURI	DEN	
SCALE DEN BRD LSD HRD GAM NEUT FBE FBS CAL										ĿŧŔ	S LANT				D	ЕРТН			COW	POSITION	
												~	~]						
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					MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. BCN	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No	COMP LAB No.	COMMENTS
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J		141.76-147.6	7						7008		C3	
			<u> </u>				· · · · · · · · · · · · · · · · · · ·					
KIP		147.69 - 149.	27									wich upper Hiash KI
							·		Д			7 7 7 4 Vm 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
KI		149.07-1505	-						166			
,				,					34 3			
K2P		150.52 - 154.	68	_ ~,					70			
K2		154.50 - 155	~	- "								
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HOLE N	NUMBE	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	Ţ	OTAL	DEP	TH	COF	E SIZE	MA	r / SEC	TION NUMBER
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GI		61.85-62.06							1014	CE	
G2P		62.06 - 62.44		· 				·	<u>}</u>		
<u>G2</u>		62.44 - 63.57		. .					J015.,	_ <u>_</u>	e e ele anno man manera agresia que se
63P		62.27-63.77					****	~- 	سالالد	८5	
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Quintette Coal Limited

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HOLE N	UMB	ER	Н	OLE	ANG	l E	CO	LLAR	BEAL	RING	T	OTAL	DEP	TΗ	CC	DRE SI	2 E	МΑ	P / SI	ECTI	ON NU	MBER
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KI		8821-	27.85								IC = 1	£7	
K2P		B1.83	- 92 .68			<u> </u>			•			-	and thin cool parter
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PROJECT GRIZZLY

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SEAM	ELEVATION (BASE)	DRILLED I	NTERVAL	AVG B C N	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No	COMP LAB No	COMMENTS
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MAP / SECTION NUMBER
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DATE (from / to)
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SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG 8 C N	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSFAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No	COMP.	COMMENTS
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52		109.89-110.69	; 				· · · · · · · · · · · · · · · · · · ·			1026	ÇIO	Thick rock partings of Hum will be and search search
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6	P	108.78-112.09				ļ		·	···	*- * *		
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KIP		13322-1344								15Q/Q51	•	midhiah upper KI
KL		134.40-135.4			a					IO3 Z _	CIZ	
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K2		139.48- 140.11		_ 		<u>_</u>						9 // 5 /
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DRILL HOLE SUMMARY SHEET PROJECT TRansfer

HOLE	чимві	ΕR	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	Ţ	OTAL	DEPI	ГН	COR	E SIZE		MAI	SEC	TION NUMBER
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PROJECT Ransfer
PAGE 7. OF 3.

HOLE NUMBER CORE SIZE HOLE ANGLE COLLAR BEARING TOTAL DEPTH MAP / SECTION NUMBER QHD 87001 U. T. M. COORDINATES DATE (from / to) COLLAR ELEVATION NORTH CORE LOGGED EAST DRILLED GEOPHYSICAL DATA OVERBURDEN SLANT HRD GAM NEUT FBE FBS CAL DIR SCALE DEN BRD LSD DEPTH COMPOSITION

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SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. BC.N	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSTAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE FAG No	COMP LAB No	COMMENTS
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GL		8514-	86.56							3	1033		Fund & Huckensel
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<u>G21</u>) 	87.78-							···		1035	CIS	en e
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PROJECT Transfer
PAGE 3 OF 3

HOLE NUMBER	HOLE ANGLE	COLLAR BEARING	TOTAL DEPTH	CORE SIZE	MAP / SEC	TION NUMBER
QHD 87004						
		.M. COORDINA	TES		DAT	E (from /10)
COLLAR ELEVATION	NO	RTH	EAS	T	DRILLED	CORE LOGGED
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<u>K2</u>		111.28-112.5	<u> </u>					· 		104:1	<u> </u>	incl. rock Spire base
						 						
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HOLE N	IUMBI	E.R	, H	OLE	ANG	LE	CO	LLAR	BFAR	ING	Ţ	OŢĄL	DEP	TΗ	CORE SI	ΖE	MAP	/ SEC	TION NUMBER
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HOLE N	HOLE NUMBER HOLE ANGLE								BFAF	RING	Ţ	TOTAL DEPTH			COR	E SIZE		MAF	TION NUMBER	
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SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG BCN	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No	COMP LAB No	COMMENTS
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SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DE	РТН			сом	POSITION		
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		hut mm<u>e</u>			MIN	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C. N	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
ΕI		105.93.106.46	· •						V-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	1136	a	
52 P		104.96-106.69		•••						11:15		,
EZ.		106.89-108:5	_					,		1140		Contrary - 100 portur
E3P		108.55-109.55									·	* v · · · · · · · · · · · · · · · · · ·
£3		109.3 110.03	re gygodjod reskolenske									The state of the s
(E)		10592-110.03		-	4.4	ļ						Ven, lu ash
	(7/10				E 15	000	164- 1011.	<u>, j. 3'.",</u>	·			
FI		13574-136:								1055	0.21	
F21-		13637-13694		THE REPRESENTATION OF THE PERS			-			1056	<u>£21</u>	- 11
E		14, 16, 120.00								1657	CZ1	
(6)	anders and the state of the sta	1-11-1424										
ला		1/10 10000)	and the second of the second of	The state of the s
		16171-16278 17.179-162.18			1			Þ		(1058)		Co. to. sociepit
G21.		163.18 - 64			,							
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HOLE N	NUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	T	OTAL	DEPT	ſН	CORE	SIZE	٨	IAP/	SECT	ION NUM	BER
QHD &	370	06																			***
						U. T	. M.	C O	ORD	INA	TES								ATE	(from /	to)
COLLAR	ELEVAT	ЮИ				NOR	тн							EAS	T		D	RILLE		CORE LO	GGED
								•													
				GE	OP	H Y S	I C A	L	DAT	4	·h					(O V E	R B U	R D	ΕN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	ÇAL	DIR	51ANT				DE	PTH		(ОМР	OSITION	
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						· M 1 N	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
				i					 _				••••
GBP.		164.03-	16465										- 4 -th or service with the service state of the se
(G) (G)		164.65	- 166 02	· · · · · · · · · · · · · · · · · · ·							1059		
(C)		161.71.	166.02										_
								***************************************					1
4		186.63-	192,19			*** *** * *** * * * * * * * * * * * * * * * *				<u> </u>	1060	Ç22	
									•				
KIP	/	<u> 72.19 -</u>	192.62	~~~ · · · ·		··		**			1061		ني سري من من ا
42									/	1	**		
<u> </u>		12262	19426		(192	.67-193	26	io Ver	y hi a	رکم	1063/63	**** **** ******* **********	
KZA	·	19426	-145,39										was well-one of the second of
K2		195.39	-170.4	/							1064	<u>C23</u>	
K3P	. -	196,41	-196.7	27	This	kas	600		budod-	: 1	<u>2 101c5(T</u>	5197.19	appylatelitetikk PR-88-disselleriyeleriyi (k-1854-sik bila kirin se. p 448-kiringendesir yiq - 185-
K3		14379:	<u>- 197.17</u>		1 //-								
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1. of 2 HOLE NUMBER HOLE ANGLE COLLAR BEARING 10TAL DEPTH CORE SIZE MAP / SECTION NUMBER Ha 900 120.63 TOOF8 OHD U. T. M. COORDINATES DATE (from / to) GORE LOGGED Geograpion Long. 8702.): COLLAR ELEVATION NORTH EAST DRILLED 1329.15 6095442.39 622019.43 GEOPHYSICAL DATA OVERBURDEN SLANT SCALE DEN BRD LSD HRD GAM NEUT FBE | FBS CAL DIR DEPTH COMPOSITION 1:200 1:20 BPB Logs for desthe Except SECTION MINING INTERSEAM ELEVATION TRUE DATE DRILLED DRILLED INTERVAL SAMPLE COMP. SEAM COAL / ROCK RECOVERY DATE SAMPLED TAG No LAB No FI 32.22-3340 1066 _c24 33,40-33,95 12P 1067 C24 f? (F) 33.95 - 38.68 1068 C24 32.22 - 38,68 61 72.66-7393 1069 C25 GZP 7:9: 74.15 C 25 1070 6.2 74.15-75.62 1071 025 639 75.62 - 76.00 CLE 1012 .. 76.00 - 7847 63 1072 9 726-7847 $C \in \mathcal{U}_2$ 1074 103.12-109.99



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HOLE N	IUMBI	ER	Н	OLE	ANGI	LE	CO	LLAR	BEAR	ING	Ţ	OTAL	DEP:	ľΗ	COR	E SIZ	Ē	MAI	/ SEC	וו מסוד	JMBER
QHD	870	907										V						,			
		,				U. T	. M .	CO	ORD	INA	TES								DAT	E (from	/ to)
COLLAR E	ELEVAT	иог				NOR	TH				,			EAS	T			DRIL	FED	CORE	LOGGED
				G E	OPI	1 Y S	1 C A	L	DATA	4							0	VER	3 U R D	DEN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				D	EPTH			COW	POSITIO	N
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						MIN	ING	SEC	TION	, <u>, , , , , , , , , , , , , , , , , , </u>			
SEAM	ELEVATION (BASE)	DRILLED IN	TERVAL	AVG. B C. N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
KIP		109.99-1	11.76									THE SAME AND ASSESSED AS AS AS	
KI		111.76 - 1	//3.28								1075		
K2P		113.28-					<u>k.2.1</u>	to 1" Q	CL Det	illog.	1076		
KZ.		116.5 1	<u>/ * 3</u> , <u>/</u>							,	4 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1		
			u v man						:		And the second second second		· · · · · · · · · · · · · · · · · · ·
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HOLE N	I U M B E	R	Н	OLE	ANG	l, E	CO	LLAR	BEAR	ING	TO	JAIC	DEPT	ГН	CORE \$12E	M	AP/SEC	TION NUMBER
GHO &	<u>t00</u>	જ		-6	8 "		(040	o°		1:	38,	62		HQ			
						U. T	. М.	C O	ORD	INA	TES						DAT	E (from / to)
COLLAR E	LEVAT	ION				NOR	TH					·		EASì	Т		ILLED	CORE LOGGED
1167	α)	و	094	<u>538</u>	<i>58,</i> {	>				62	175	7.19)		Jo	(, /37	870801
				G E	OPI	HYS	ICA	L 1	DATA	4					1	O V E I	RBURI) E N
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		сом	POSITION
1,200	✓.				<i></i>	<i>\</i> .			'		~							
1:20		./	/		V				1/									

						MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	A V G. B.C. N	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP LAB No.	COMMENTS .
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						* * * * * * * * * * * * * * * * * * * *				-	-		
FI		3722 -3	7.89									and management of the state of	The control of the co
1200		37.87-3	•										
F2		38.12 -	40.26										11 makes
(E)		3722	40.26									. 	
				······································									n) n n
Flo	w c/	40.26-	41.27								AND PART IN CASE OF BUT ON THE WORLD	4 / Com an - 44 - 18 -	V. /11 1.56 -
													· · · · · · · · · · · · · · · · · · ·
6,1		_6882-	- 51.78										
<u>G2P</u>		59.78 -											
C,2		59.86-	62.41					<u> </u>					
G30		6241-	6294									******	Carla, Cont Split
63	<u> </u>	62.94-	-64.75						· · · · · · · · · · · · · · · · · · ·		·	one hallogy — kolo y von	
<u>63</u>		<u> </u>	-69.75										
	·												



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HOLE N	VUMB I	ER	Н	OLE	ANGI	l, E	CO	LLAR	BEAR	≀ING	70	OTAL	DEPT	Ή [CORE	SIZE	W	AP/S	ECTI	ON NU	v B E R
QHD.	87 <i>o</i>	08																			.
						U. T	. M.	CO	ORD	NA	ATES							D.	ATE	(from/	/ to)
COLLAR	ELEVAT	ION				NOR	(TH							EAS	T		DR	ILLED		CORE L	.OGGED
									·												
			**************************************	GE	OPI	HYS	I C A	l.	DATA	A		ARTHURSON				(O V E	RBUI	R D E	i N	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT 4				DE	РТН		cc	оч м с	SITION	
		1															·				

					MIN	IING	S E C	TION	·····			
SEAM	ELEVATION { BASE }	DRILLED INTE	RVAL AVG	TRUE	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
J		3451-70).06					,	,	av - v - var - varane - v-		
KIP		9006-91	i	- hi	anh ng	2 · ((1 3m	2				
K1 K2(<u> 1498 - 93</u> 0 9343 - 96	1 .)		was gar magaag) y step.	A CONTRACTOR OF A CONTRACTOR O
K2		962 -98]									
1	((18.49-	79.80-	hi a		k 2	3000)				
											-	
												CORU 70 0850 00



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HOLEN	1 U M B I	ER	Н	OLE	ANG	LE	co	LLAR	BEAG	RING		OTAL	DEPT	Н	COI	RE SIZI	E	MAI	/ SEC	TION	NUM I	BŁR
QHDE	3700	> 9		- 6	20		}	0	43	c>		105	1.14		H	Q						
			,			U. T	. M.	CO	ORD	NINA	ATES								DAT	E (from /	to)
COLLAR	ELEVAT	ION				ИОИ	нтя		-,					E A S	ſ			DRL	LED,	C	ORE LO	GGED
110%.	43		(g (5	95	<u> </u>	<u> 3-65.</u>					હિશ	2957	.:50						808	A	ug /8	7
				GE	OP	H Y S	I C A	L	DAT	Δ							0	VER	BURD) E N	1	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	\$LAN ⊿.	ſ			C	EPTH		•	COM	POSI	TION	
1,200	<u> </u>					✓							· -								**************************************	
1:20		√	✓		<u> </u>																	

	·					MIN	IING	SEC	TION		****		<u> </u>
SEAM	ELEVATION (BASE)	DRILLED I	NTERVAL	AVG. B.C. N	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No	COMP. LAB No.	COMMENTS
					way aggregated array Algorithm aggregated and					, ,			
E1		24.70-2	5.34								1077	<u></u>	
F2F		25.34- 3	25.71								1078	.c27	
F2		25.71-	27.56								1079	c27.	
(F)		24.70-	27.56										
,	:												
<u>G1</u>		61.08- B	61.93								1080	C28	
<u>62P</u>		6193- 6	62.10								1051	C28	
G 2		6210-6	63.23 <u> </u>								1082 _	_ 238	+
<u>636</u>		63.23-6	63.65					*****			1083	_ 228 .	
63 (G)		63.65-	6520						<u> </u>		1684	ے ت	markly development in a planting of the control conjugate of the control contr
(G)		61.08 -	65.20							-			44 +4400 41 - 4 4 - 4 4000 - 44000 - 4
							ļ				<u>1655</u>	ـ دني	
J		<u>88 12 - 6</u>	1394		Marijanija de rijeja – ko e – k						-terr erber om		
						AP-1- Condition to the last way							



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1 7 0 5	THE PERSON NAMED IN COLUMN	

HOLE NUMBER	Н	OLE AN	vGLE	COI	LLAR	BEAR	ING	TO	TAL D	EPTH	CORES	IZE	MAP/	SECT	ION NUMBER
QH)87009															
			U. T.	. M .	CO	ORD	INA	TES					[DATE	[(from / to)
COLLAR ELEVATION			NOR	TH						EAS	ĭ		DRILLE	D	CORE LOGGED
								İ					· •		
		GEO	PHYS	ICAI	<u> </u>) AT/	Ā	A				0	VERBL	JRD	EN
SCALE DEN BR	D LSD	HRD GA	AM NEUT	FBE	FBS	CAL	DIR	SLANT			DEPT	н		COMP	OSITION
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			************			MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INT	ERVAL	AVG. B C. N	TRUE THICKNESS	COAL / ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No	COMP. LAB No.	COMMENTS
KI)	93.94 - 99	5.40	· • • • • • • • • • • • • • • • • • • •					,		£		And upper hiersh KI
Ki		95.40-91									SAMPLI		
K2P		96.62-107	2.29						<u> </u>		N.C 5,	ali phijamaga dalamba sarajar sasir sasir sa	
KZ		10029-10	1.27		againeach an agus an an an an an an an an an an an an an	- In the paper of the color of			-				
		101.27-10	2.07	- 4	i anh c	oally zo	<u>ne)</u>					•	
												e a marriador a como de se	
								-					



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HOLE N	1UMBI	ER	Н	OLE	ANG	LE	co	LLAR	BEAR	ING	TC	TAL	DEPTH		CORE SI	ZΕ	MAP	/ SEC	TION NUMBER
QHD 8	3701	10		-69	<u> </u>			013	3 0		1	2.82	5		HQ				
						U. T	. M.	C O	ORD	INA	ATES							DAT	E (from / to)
COLLAR E	ELEVAT	NOI				NOR	тн						£	AST			DRIL	LED	CORE LOGGED
894.8	59		رمد	<u>>94%</u>	79.U	٠٦					رمت	<u>در برح</u>	, 3 5						670B11
,				G E	OPI	HYS	1 C A	L !	DATA							0	VERI	BURC	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH			COM	POSITION
1,200	~				✓	V			1	سا	1								
1:20		レ	1		レ				L										

						MII	NING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED IN	TERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROC	K RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
<i>€</i> 3		22.18- 2-	4.03								1133		-called DI on sample -also 1134 and 1135 as DZP and DZ
FAU	CT	48,09	·				-						
F		4809 - 4	940										,
G1		89.91 - 9	0.82								1086		
GZD		90.82 - 9	1.03								1087		
52 G3P	. · ·	9103-9			:						1088	C30	
63 (G)		92.40-9	4.50								1090		
		89.91 - 9	4,50							.			
			,										

7	Quintette Coal Limited

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D A C E	2	a. 7	

HOLE 1	NUMBI	ER	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	T	OTAL	DEP	TН	CO	RE SIZ	ZE	MAF	/ SEC	TION N	JM BER
QHD	870	10										,									
						U. T	. M.	C O	ORD	INA	TES								DA.	「E(from	/to)
COLLAR	ELEVAT	ION				NOF	TH	,						E A S	T			DRIL	LED	CORE	LOGGED
					I			•													
			_	G E	O P I	H Y S	I C A	L !	DAT	4	•						0	VER	BURI	DEN	
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				į	HT43C			сом	POSITIO	N
																•					

						MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C. N	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
J		114.68	3-117,62	.						<u></u>	1091	C31	
KIP													9 4 4 4 4 4 4
NIT		117.62-	11578								1092/93		and coal split
KI		118.78	-119.81								1094	C32	
K2P		119.81 -	128.06						•				
KZ		128.06-	-129.77								1095	<u> </u>	
ΚZ	lower	130,03	- [31.11							-			V. hi ash.
		·											



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HOLE N	NUMB	ER	Н	OLE	ANG	LE	CC	LLAR	BEA	RING	TO	JATC	DEPT	Ή	CORE SIZE	MAF	/ SEC	TION NUMBER
QHDE	3701	"		9	o°				_		/.	<i>39</i> ,	/2		40		··	
						U. T	. M.	C C	ORD	NIC	ATES						DAT	E (from /to)
COLLAR	ELEVAT	ΠΟΝ				NOF	RTH							EAS	Т	DRIL	LED	CORE LOGGED
8	77.	77			60	295	26	7.5	55	•	,	6	23	87	5.17			Sept /87
				G E	ОР	HYS	I C A	L	DAT.	A					C	VER	BURD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COW	POSITION
1:200	V				W	V			V	I	-							
1:20		V	V		V				V									

						M I M	IING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTE	RVAL	AVG. B.C. N.	TRUE THICKNESS	COAL / ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
11		61.40-62	.22								1127		
11/	2	62.22 -62	,64						4		1128		
12		62.64 - 63	347								1129		
Δ1/ Δ2 Δ)		61.40-63.											
EB		000											
<u>C5</u>		97.80 - 99	-50								1130/31/32		V. hi bush.
									·····				
FI		121,53-12	1.92								1096	<u>C34</u>	
F2P	1	121.92-122									1097		
F2_		122.08-125	1								1098	C 34	
F2 (F)	I	121.5 <mark>3 - 12</mark> 5	1										
SI		146.22-147	7.27			<u> </u>					1099	C 35	
G2P		147.27 -14									1100	C35	



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E (from /to)
CORE LOGGED
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•					MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED INTERVAL	AVG. B.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
92		147.59-14841								1101	C35	
G3P		148.41-14888								1102	c 35	
હું <u>3</u> (ઉ)		148.88-150.42								1103	<u>c35</u>	
<u>(a)</u>		146.22-150.42										
t _j		170 10 17/25						, ,				
KIP		170.19-175.22 175.22-17636								1104	<u>c 36</u>	•
KI		/2/ 2/ 122 -									0.27	
KZP		176,36-177.4 3 177,43-183,82					· · · · · · · · · · · · · · · · · · ·			.1107 N.5	C37	
<u>K2</u>		183.82 -184.66								N-S.		



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HOLE N	1 U M BI	ER	Н	OLE	ANG	l E	CO	LLAR	BEAR	RING	TC	STAL	DEPTH		CORE SIZE	MAP	/ SEC	TION NUMBER
QHDE	370	/2		(55'	•		01	o°		/	55.	24		140			
						U. T	. M.	C O	ORD	INA	TES						DAT	E (from /to)
COLLAR E	ELEVAT	ION			.,,	NOR	TH						E .	AST		DRIL	LED	CORE LOGGED
86.	191			G	0:90	170	157	7				62	4820	6,0	2			
				G E	O P I	HYS	1 C A	L	DATA	4					0	VER	BURD	EN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH		COMI	POSITION
1:200	7				١	~			L	V	اسا							
1.20		1	4		۳				~									

						MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. B.C. N.	TRUE THICKNESS	COAL/ROCK	ECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
λ.												- III 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
DI		24.86-	26.41								1120		
D2P		26.41 -	26.74								1121		
12 (1)		26.74	-27.64								1122	4	;
(P)	•	24.66-	27.64						<u>.</u>				
EI		43.12-	43.41										
F21	,	43.41-											
EZ.		44.68 -	46.02										2 partings - V. hi as
E3A	-	46.02 -	46.80										
<u>E</u> 3		46.80-	49.36								1123/24/25/2	o	3 parkings - Whi aich
	<u> </u>				:	, ,							
FI		71.44-	72.10								1108	<u> </u>	
F2P		72.10-	12.43								1109	c38	
FZ		72.43-									1110	C38	



PROJECT

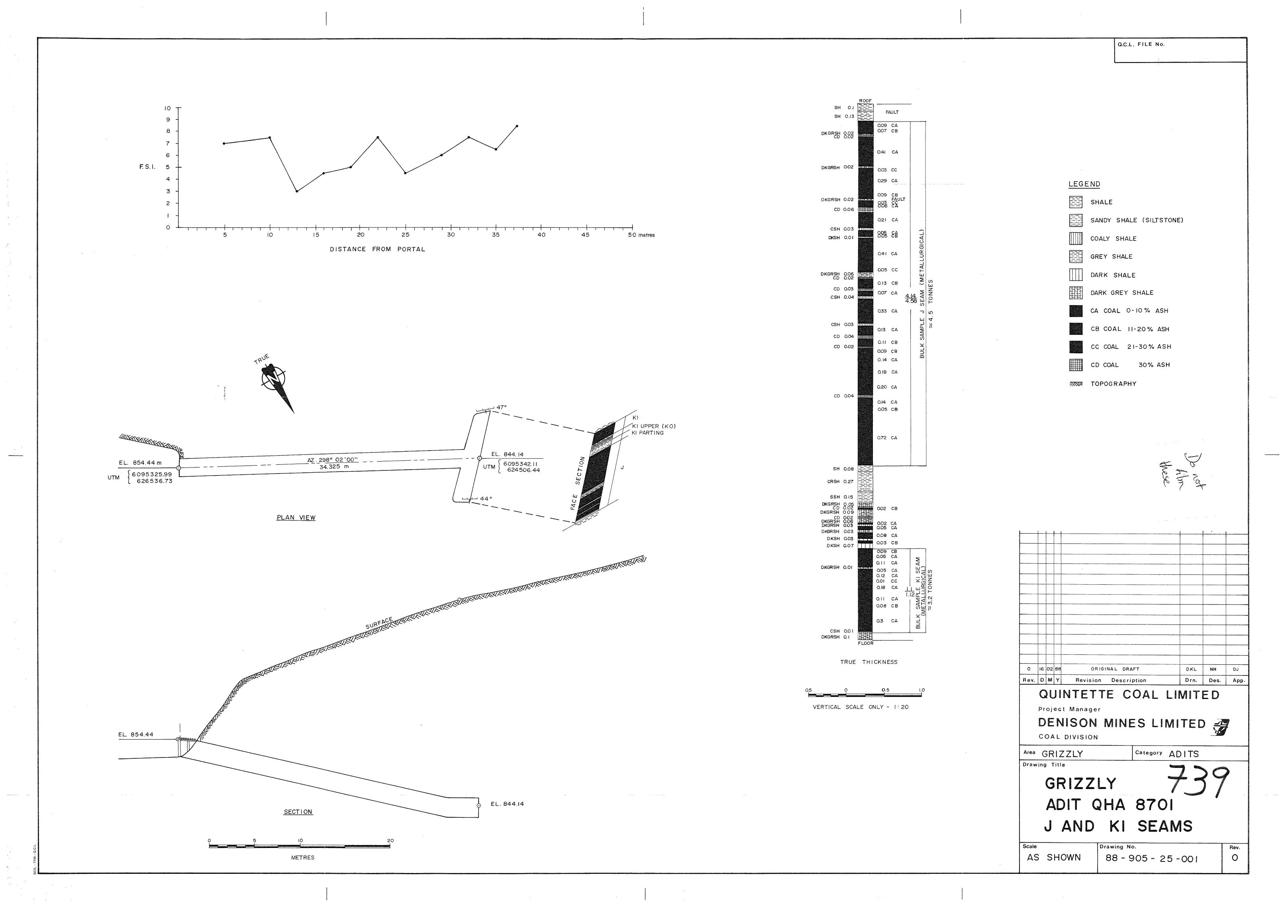
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PAGE		OF

HOLE N	IUMBE	R	Н	OLE	ANG	LE	CO	LLAR	BEAR	RING	T	OTAL	DEPT	Н	CORE SIZ	E	MAP/	SECT	ION NUMBER
QHDE	370	12																•	
						U. T	. M .	CO	ORD	INA	TES				•			DATI	E (from / to)
COLLAR	ELEVAT	ION				NOR	ТН							EAST	Т		DRILLE	D	CORE LOGGED
					· .														
_,				G E	ОРІ	HYS	I C A	L I	DATA	4				*		0 V	ERBU	J R D	ΕN
SCALE	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT				DEPTH			COMP	OSITION
															-				

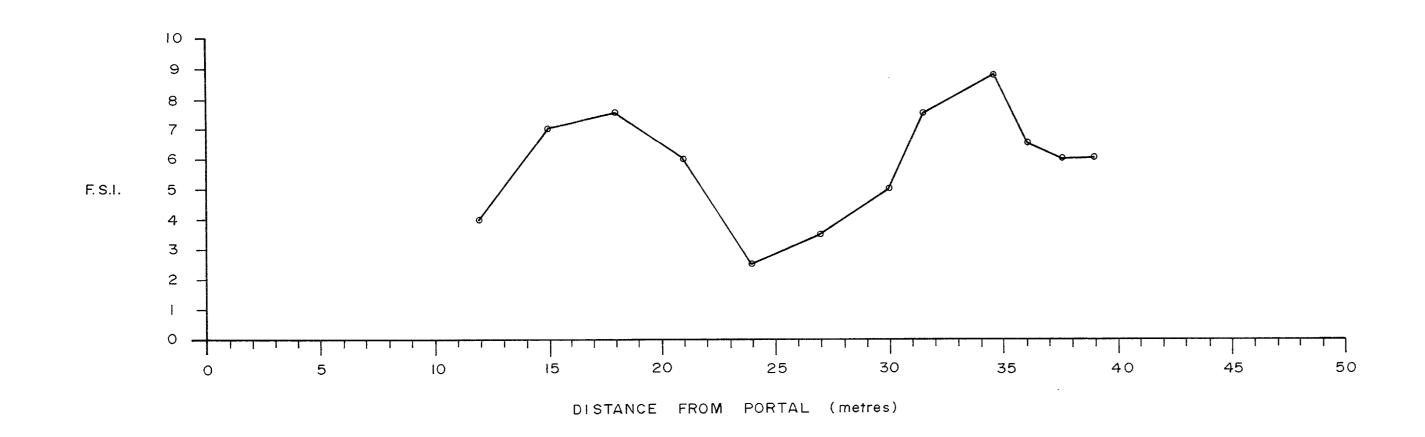
			<u></u> .			MIN	ING	SEC	TION				
SEAM	ELEVATION (BASE)	DRILLED	INTERVAL	AVG. 8.C.N.	TRUE THICKNESS	COAL/ROCK	RECOVERY	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	COMP. LAB No.	COMMENTS
GI		440.03											
			-119.16	, ,							-1111	<u> ტ</u>	
G 2A		119.16 -	119.27								_1112	<u> </u>	
G2			120.73	1 1							.1113	c 39_	
G31		120.73-	- 121.96								1114		
<u>63</u>		121.96	-1 2 3.22								1115	C40	
<u>63</u>			-123.22										incl. very thick 53P.
4		141.94-	14800								1116	<u>C41</u>	
KIP	,	148.00	-149.21								1116 KOP /KO 1117/18		ind. hiash upper KI
KL		149.21	-150,90								1119	C42	
K21	>	150.90	1- E.O.H.	(15	5.24)								
	(K	2 n	ot dri	led.	<u> </u>								
													
									:				

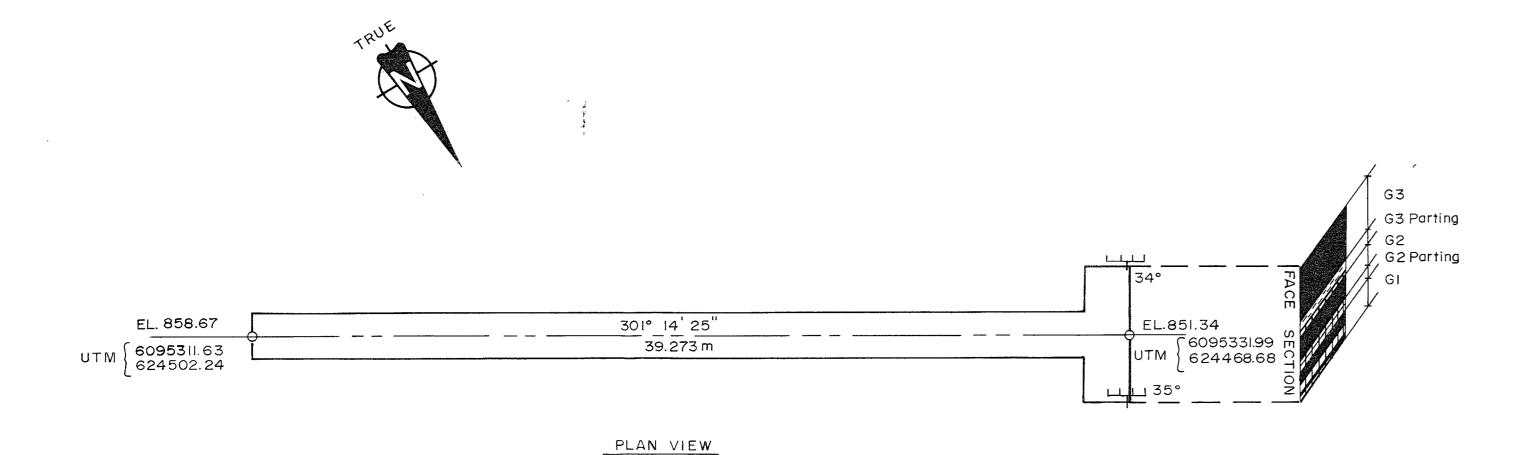
Appendix T.3
Adit Drawings

Do not, film this appendix.

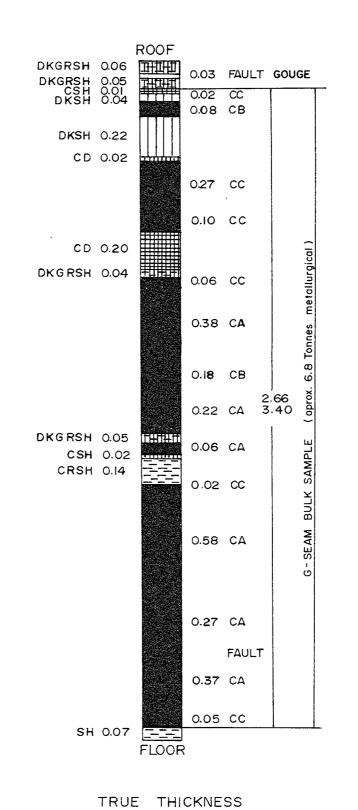


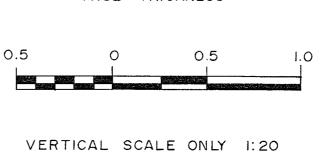
Q.C.L. FILE No.



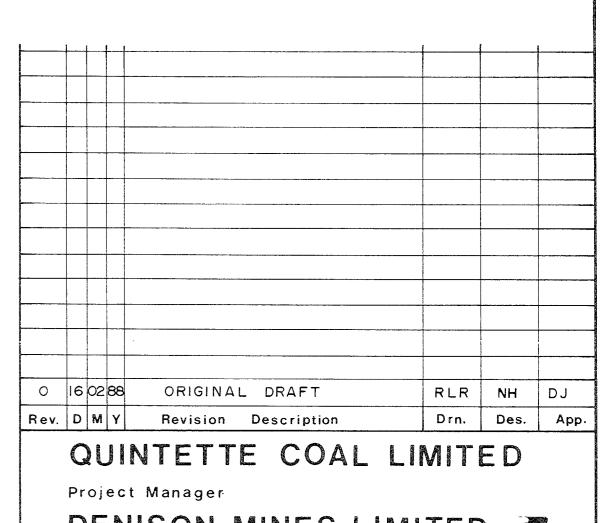










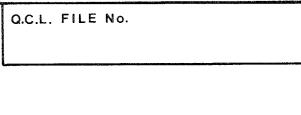


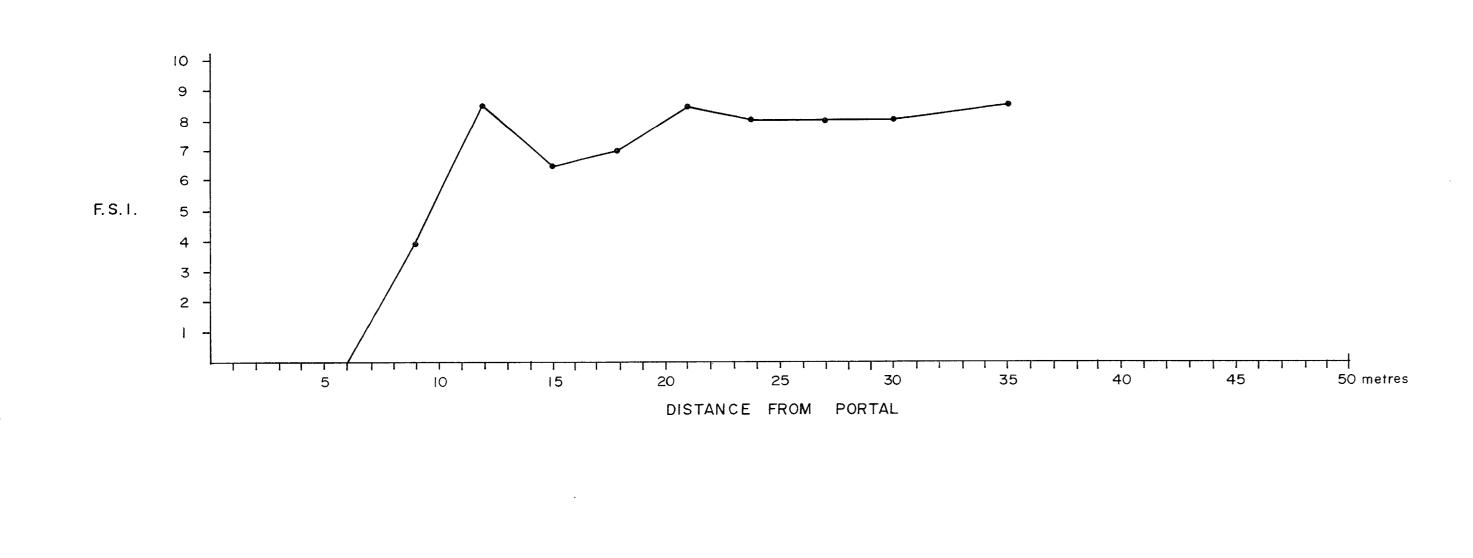
DENISON MINES LIMITED COAL DIVISION

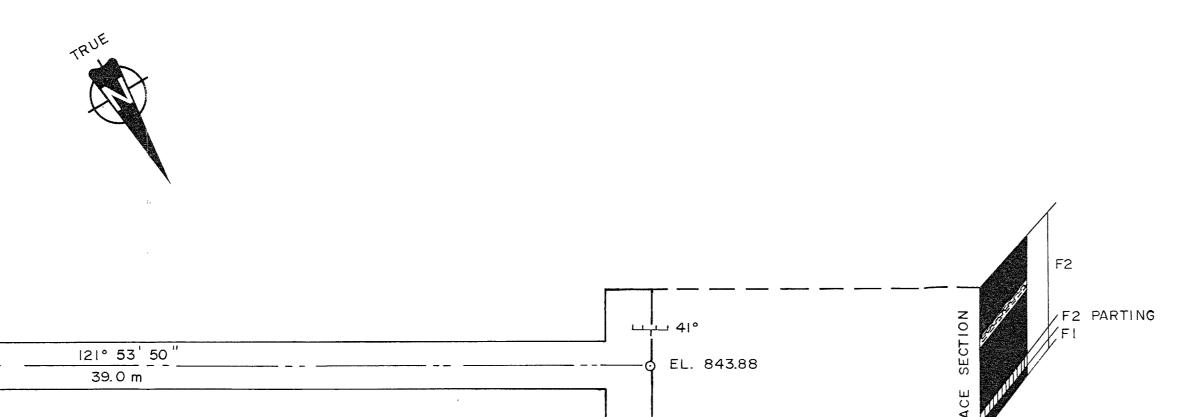
GRIZZLY Category ADITS Drawing Title GRIZZLY

ADIT QHA 8702 G- SEAM

88-905-25-002 0 AS SHOWN







TRUE THICKNESS VERTICAL SCALE ONLY - 1:20

0.07 CA 0.06 CA

0.15 CA

0.47 CA

0.02 CC

0.20 CA

0.63 CA

0.01 CC 0.13 CA 0.02 CC 0.17 CA

0.29 CA

0.18 CB

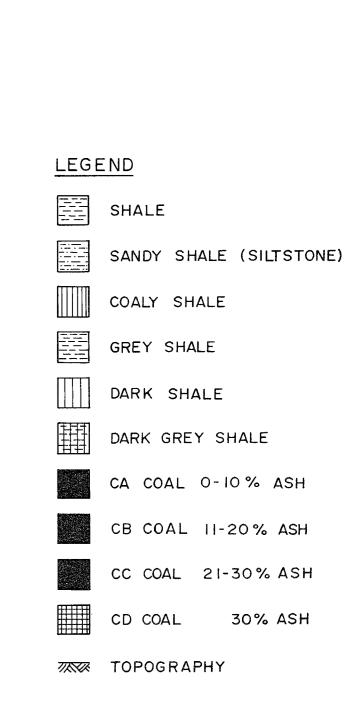
0.09 CA

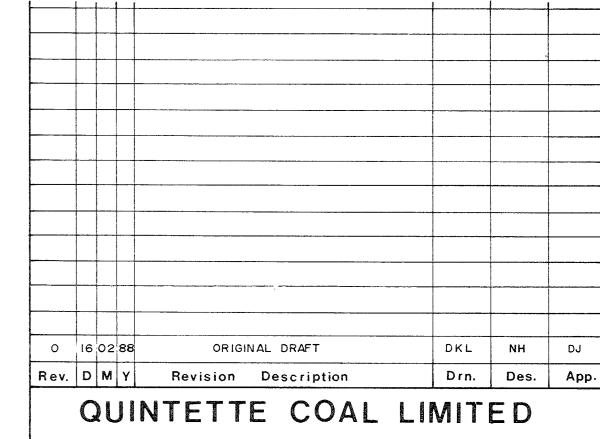
0.12 CA

CSH 0.08

CSH 0.27

CSH 0.08 GRSH 0.02





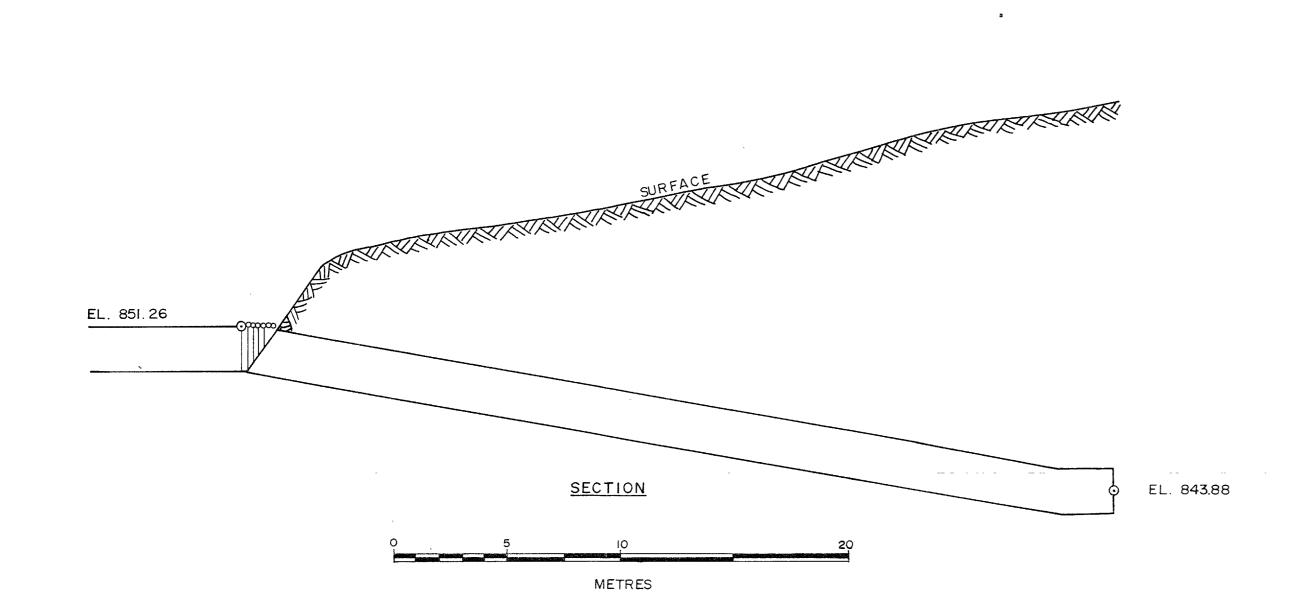
Project Manager DENISON MINES LIMITED

COAL DIVISION

Area GRIZZLY Category ADITS Drawing Title

GRIZZLY ADIT QHA 8703 F SEAM

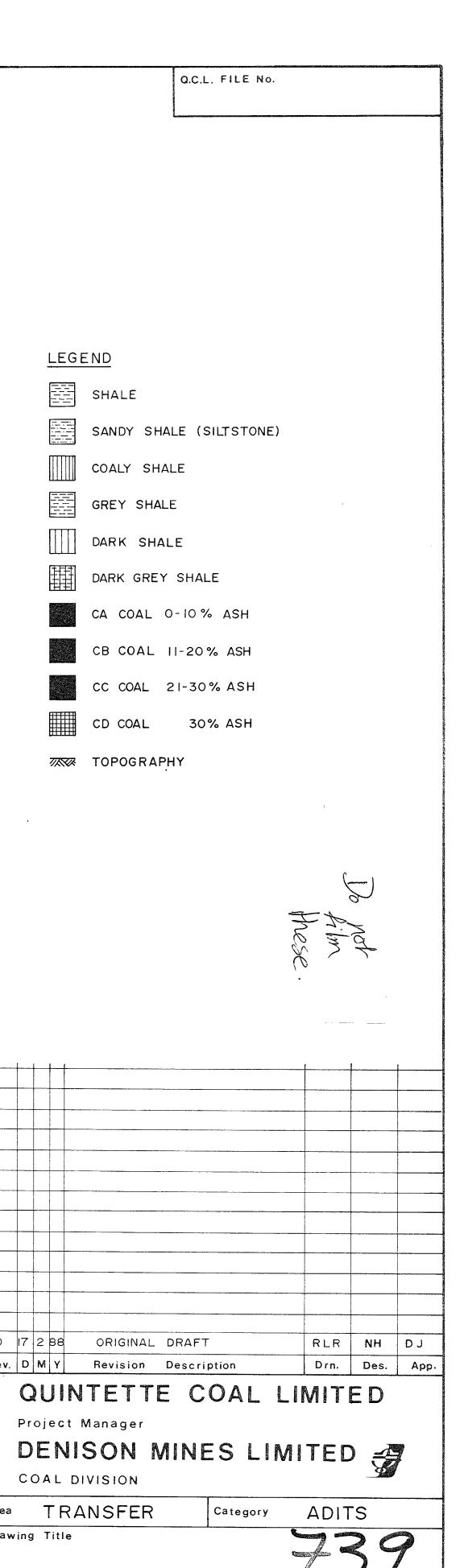
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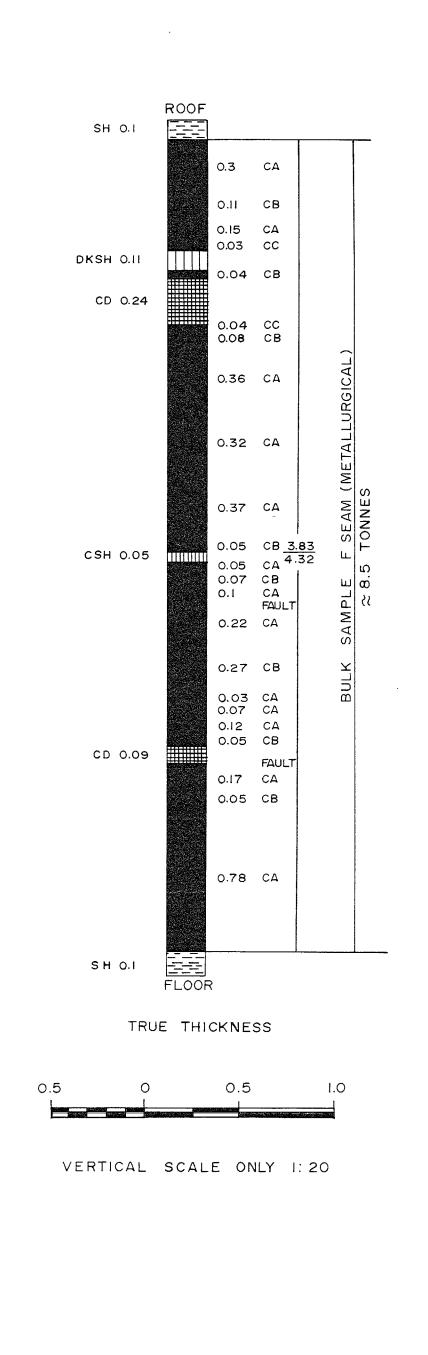


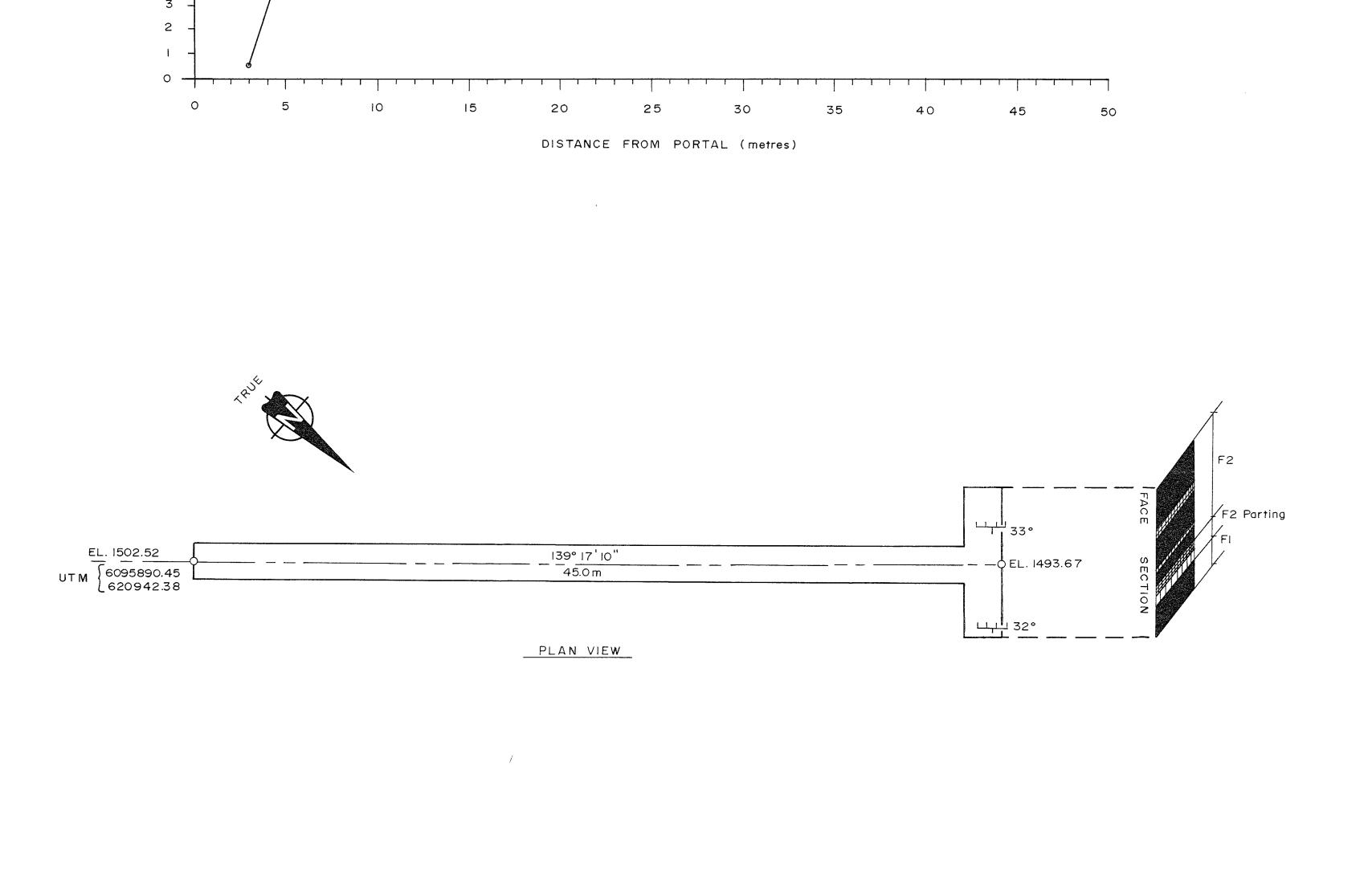
PLAN VIEW

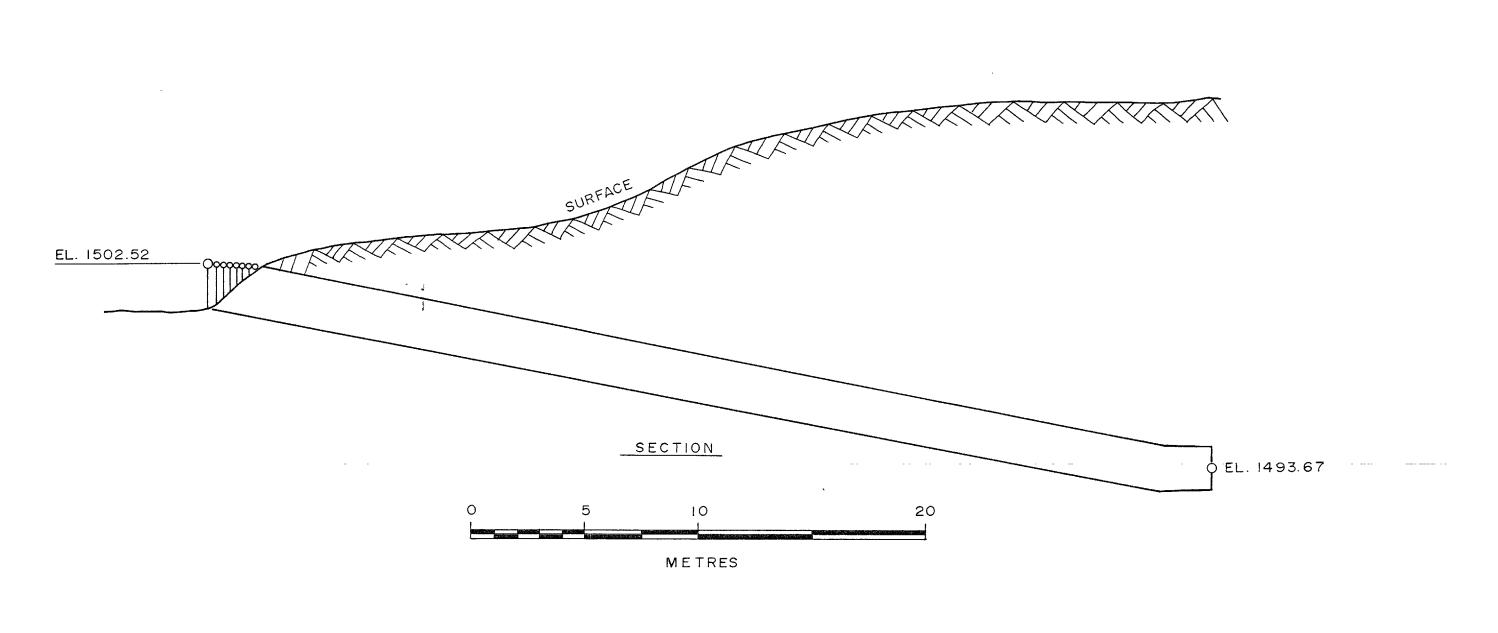
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ORIGINAL DRAFT Rev. D M Y Revision Description

QUINTETTE COAL LIMITED

LEGEND

COAL DIVISION Area TRANSFER

Drawing Title

TRANSFER ADIT QHA 8704 F SEAM

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