

Sections 1.3, 2.3 & 2.4 and Tables 1.4.1, 1.4.2 & 2.1 contain confidential information or data, as described in Section 2 of the *Coal Act Regulation*, and have been excluded from this report.

*Coal Act Regulation:* [http://www.qp.gov.bc.ca/statreg/reg/C251\\_2004.htm](http://www.qp.gov.bc.ca/statreg/reg/C251_2004.htm)

TITLE PAGE

Coal Licence Numbers: Quintette Trend: 3297, 3309, 3301  
Transfer: 3341, 3661

Peace River Land District:

N. T. S. Map Sheets: 93-I-14, 93-I-15

Transfer Area: Latitude 54° 54'  
Longitude 121° 03'

Quintette Trend: Latitude 54" 56'  
Longitude 121° 00'

Owner: Quintette Coal Limited

Operator: Quintette Coal Limited (Denison Mines  
Limited; Manager)

Consultants: Nil

Author: G. P. Gormley

Date Work Completed: Transfer: August 15 to August 30, 1985  
Quintette Trend: July 15 to August 10/85

Date Submitted: April, 1986

~~CONFIDENTIAL~~

**1985 QUINTETTE GEOLOGICAL EXPLORATION REPORT**  
**QUINTETTE TREND SOUTH AND TRANSFER EXPLORATION AREAS**

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**1985 QUINTETTE GEOLOGICAL EXPLORATION REPORT**  
**QUINTETTE TREND SOUTH AND TRANSFER EXPLORATION AREAS**

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| 85-903-21-002 | Transfer - Cross Section #5                   |

GEOLOGICAL ASSESSMENT REPORT  
**QUINTETTE TREND SOUTH AND TRANSFER AREA, 1985**

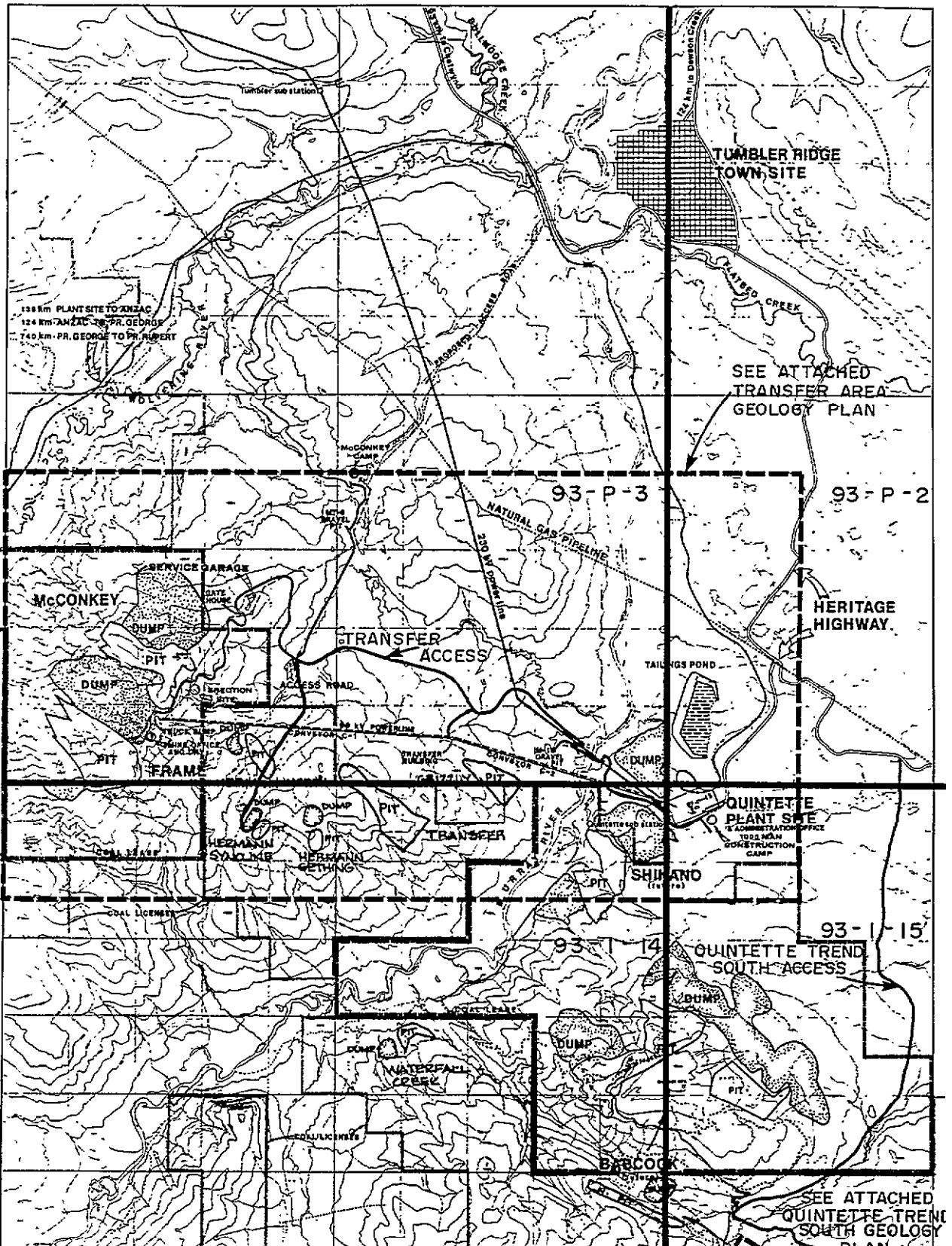
0  
1.0 INTRODUCTION

1.1 **General Geographic and Physiographic Position**

The two aforementioned study areas are located on the Quintette Coal Limited property as indicated on the attached index map. Generally the Quintette Trend area is situated in alpine terrain just above tree level at an average elevation of 1,650 metres. The Transfer area is situated in forested terrain ranging in elevation from 900 metres to 1,550 metres above sea level. Access to Quintette Trend is possible by 4-wheel drive vehicle via 14 kilometres of "well site" access road connecting the old Babcock campsite to the Heritage Highway (Boundary section). The Transfer area may be approached via the road which accesses Quintette's Transfer Point Building on the overland conveyor or alternately via the well site access as indicated on the index map.

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1.2 **Property History**

The Quintette property was initially acquired in 1969. Regional mapping of both the Quintette Trend and Transfer areas was undertaken in 1970 to 1974. Limited diamond drilling and bulldozer trenching was undertaken on the Quintette Trend in 1974 and 1976. No drilling or trenching has been undertaken in the Transfer area prior to the 1985 Programme.



## QUINTETTE COAL LIMITED

MINE SITE DEVELOPMENT  
INDEX MAP: 1985 GEOLOGICAL  
ASSESSMENT REPORT

QUINTETTE TREND SOUTH AND TRANSFER AREAS

MARCH 1984

## **1.0      QUINSETTE TREND SOUTH**

### **1.1      Description**

The Quintette Trend South exploration area lies approximately 11 km south of Quintette's plant site. It is bound on south by Gordon Creek and on North by Babcock Creek. The area is accessed by an exploration road which was built in 1974 from the old Babcock campsite. The elevation ranges from approximately 1500 m to 1700 m and is subalpine to alpine.

Previous work in this area was conducted in 1973 and 1974, and included mapping, drilling and trenching. The results indicated very simple structure with a well developed coal section. The 1985 exploration program included two diamond drill holes, 10 rotary drill holes and geological mapping. It was conducted with the purpose of confirming the structure and to obtain coal quality data.

### **1.2      Stratigraphy and Coal Development**

Regionally, all formation from **Minnes** and Shaftsbury Formation outcrop in this area. Within the exploration area, the minable seams of interest are found in the Middle Member of the Gates Formation. Minable seams recognized are O, E, F, G, and J seams. The Middle Gates Member from top of O to bottom of K reaches a thickness of 115 to 135 m. Table 1.2.1 show interseam **thickness** and **lithology** between each of the minable seams. Table 1.2.2 summarizes seam **thicknesses** obtained from 1985 drilling program.

Seam O, overlain by sandstone and conglomerate of the Upper Gates, can be easily correlated with those of other deposits in Quintette property. It is 2.0 to 2.6 m in thickness and is a clean seam especially toward the north.

Seam E thickness ranged from 2.4 to 3.1 m. There are three distinct coal portions separated by partings. Toward the North, the seam begins to develop more partings resulting in increased in-seam ash.

Seam F is characterized by high-ash bony coal at the top of the seam. The seam thickness ranges from 2.4 to 3.5 m. Excluding the bony portion, F seam is very clean except where it develops parting at the north end.

Seam G varies in thickness from 2.5 to 3.4 m, its upper parting develops significantly in the south resulting in high head ash.

Seam J is a clean seam with thickness ranging from 4.4. to 6.3 m. Seam K (**K1** and **K2**) was considered to be unminable because of its thinness and its distance from the J seam (see Table 1.2.1).

The average cumulative minable **seam thickness** in Quintette Trend South from both 1985 to 1974 data is **15.9 m**.

TABLE 1.2.1

**QUINTETTE TREND SOUTH**  
**INTER-SEAM THICKNESS**

Inter-Seam	Thickness	Range	Lithology
D-E		11 - 25	Carbonaceous and shaly below D seam to sandy shale to find <b>grained sandstone</b> .
D-F		13 - 30	Shale to very fine and find sandstone
F-G		21 - 41	Shale with very fine to sandy shale bands
G-J		4 - 18	fine sandstone to shale and carbonaceous shale
J-K		10 - 14	shale to find sandstone

TABLE 1.2.2

**QUINTETTE TREND SOUTH**  
**SEAM THICKNESS**

Drill Hole	Seam	Thickness
QTD 85001	D	2.45/2.64
	E	2.47/2.86
	F	3.14/3.48
	G	2.19/3.21
	J	4.60/4.93
	K1	0.81/0.81
	K2	0.26/0.34
	D	2.09/2.14
	E	1.99/2.90
QTD 85009	F	2.15/2.67
	G	2.58/2.88
	J	4.36/4.91
	K1	0.95/0.95
	K2	0.48/0.57
	D	2.11
	E	2.37
	F	2.51
	G	2.06
QTR 85001	J	2.84
	K1	4.51
	K2	0.91
	D	0.46
	E	2.46
	F	2.36
	G	3.21
	J	2.71
	K1	4.73
QTR 85002	K2	1.26
	D	0.55
	E	
	F	
	G	
	J	
	K1	
	K2	
	D	
QTR 85003	E	
	F	
	G	
	J	
	K1	
	K2	
	D	
	E	
	F	
QTR 85004	G	
	J	
	K1	
	K2	
	D	
	E	
	F	
	G	
	J	
QTR 85005	K1	
	K2	
	D	
	E	
	F	
	G	
	J	
	K1	
	K2	
QTR 85006	D	
	E	
	F	
	G	
	J	
	K1	
	K2	
	D	
	E	
QTR 85007	F	
	G	
	J	
	K1	
	K2	
	D	
	E	
	F	
	G	
QTR 85008	J	
	K1	
	K2	
	D	
	E	
	F	
	G	
	J	
	K1	
QTR 85009	K2	
	D	
	E	
	F	
	G	
	J	
	K1	
	K2	
	D	
QTR 85010	E	
	F	
	G	
	J	
	K1	
	K2	
	D	
	E	
	F	

### 1.3 structure

Regionally, to the Northeast of the exploration area; the Waterfall **Syncline** and the Babcock-2 anticline pair runs from Southeast to Northwest. The Gates formation exposed in the exploration area forms the south limb of the Waterfall Creek Syncline, and all strata, dips uniformly to the Northeast at  $65^{\circ}$  to  $70^{\circ}$  (see cross sections in Appendix 1). The drill and mapping data indicate that there are no major faults in **this** area.

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Section 1.4 and Table 1.4.2 contain confidential information or data, as described in Section 2 of the *Coal Act Regulation*, and have been excluded from this report.

*Coal Act Regulation:* [http://www.qp.gov.bc.ca/statreg/reg/C251\\_2004.htm](http://www.qp.gov.bc.ca/statreg/reg/C251_2004.htm)

TABLE 1.4.2

**QUINTETTE TREND SOUTH**  
**ROTARY DRILLHOLE ANALYSIS RESULT**

DRILLHOLE	SEAM	VERTICAL DEPTH FROM SURFACE (m)	RAW	ANALYSIS
			ASH%	FSI
QTR 85001	D	20.11	44.27	1.5
	E	83.72	53.16	1.5
QTR 85002	E	21.94	61.42	1.5
QTR 85003	F	19.42	53.60	1.0
QTR 85004	G	19.48	31.51	5.5
QTR 85005	J	16.87	23.22	3.5
	K1	61.47	10.15	3.5
	K	69.11	70.32	0
QTR 85006	D	20.96	27.83	2.5
QTR 85007	E	18.20	42.67	3.0
QTR 85008	F	44.97	18.63	7.5
QTR 85009	G	17.86	24.31	6.5
QTR 85010	J	8.77	21.08	5.5
	K1	85.63	32.54	1.5
	K2	97.49	61.14	1.0

Portions of Table 1.4.2 contain confidential information or data, as described in Section 2 of the Coal Act Regulation, and have been excluded from this report.

*Coal Act Regulation:* [http://www.qp.gov.bc.ca/statreg/reg/C251\\_2004.htm](http://www.qp.gov.bc.ca/statreg/reg/C251_2004.htm)

## **2.0      TRANSFER AREA**

### **2.1      Description**

The Transfer Area lies between what was previously known as the **Hermann** North and the **Hermann** South pits. This area is located approximately 1 km southwest of the overland conveyor transfer point. An exploration program was conducted in the M-11 anticline region within the Transfer Area during the **summer** of 1985. The area lies above the **treeline** with elevation ranging from 1400 to 1680 m (see geological map),

The area had been explored with regional scale **geological** mapping in 1975, but at that point it had only been determined as belonging to the Gates Formation, and there was no data to confirm minable coal seams. The 1985 program was conducted with the purpose of confirming the presence of minable coal. The work was limited to 2 exploratory diamond drill holes and detailed mapping in the confined area.

### **2.2      Stratigraphy and Coal Development**

The Gates Formation reaches up to 300 m in thickness within the exploration area. The formation is divided in descending order, into Upper, Middle and Lower Members. The main coal bearing member is the Middle Member with thickness of 102 m. It correlates very well with the northern portion of the Shikano pit on the opposite bank of the Murray River.

There are eight potentially minable seams, B, D, E, F, G, J, K1 and K2. Seam B belongs to the Upper Member and the others belong to the Middle Member. Thickness of each seam is shown on Table 2.1.

Seam B and D have no partings but are thin reaching to only 0.8 and 1.0 m.

Seam E has developed partings and relatively thin coal splits and therefore maybe unminable.

Seam F which lies 22 m below E seam has two parting but is relatively thick developing to 4.2 m.

Seam G attains a thickness of 3.2 m. This seam is made up of three coal splits and two rock partings.

Seam J is 13 m below G and 3.0 m in thickness. It is a very clean seam.

The J and K1 interseam is only 0.7 m while K1 seam is 0.85 m in thickness.

Seam K2 is 0.9 m below K1 and 0.7 m in thickness. Seams J, K1 and K2 may be mined together, but interseam partings will probably be separated. The cumulative minable coal seam thickness (B, D, F, G, J, K1, K2) in this area is 14.77 m. Without seam B and D, the thickness is 12.9 m.

## 2.3 structure

The structure in the Transfer area is dominated by M-11 anticline. The anticlinal axis runs from NW to SE. Both limbs dip from 35° to 60°. Three fault zones have been interpreted, however, **these faults have** not yet been well defined.

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Sections 2.3 & 2.4 and Table 2.1 contain confidential information or data, as described in Section 2 of the *Coal Act Regulation*, and have been excluded from this report.

*Coal Act Regulation:* [http://www.qp.gov.bc.ca/statreg/reg/C251\\_2004.htm](http://www.qp.gov.bc.ca/statreg/reg/C251_2004.htm)

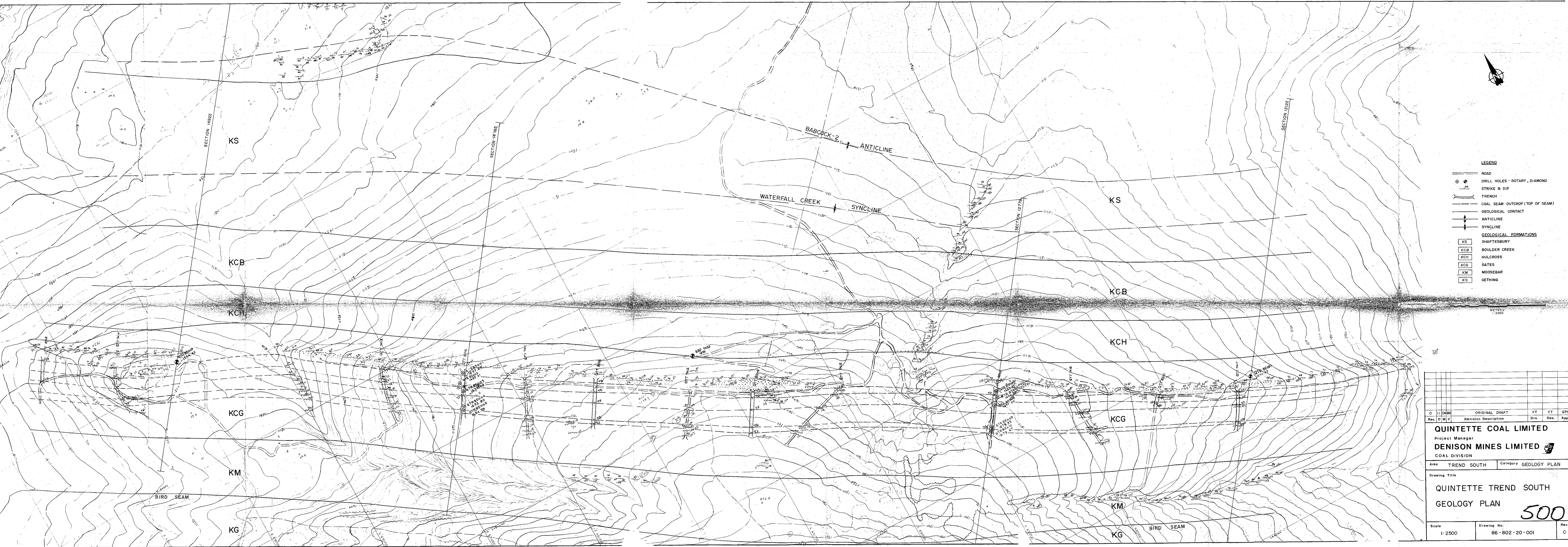
APPENDIX 1.1

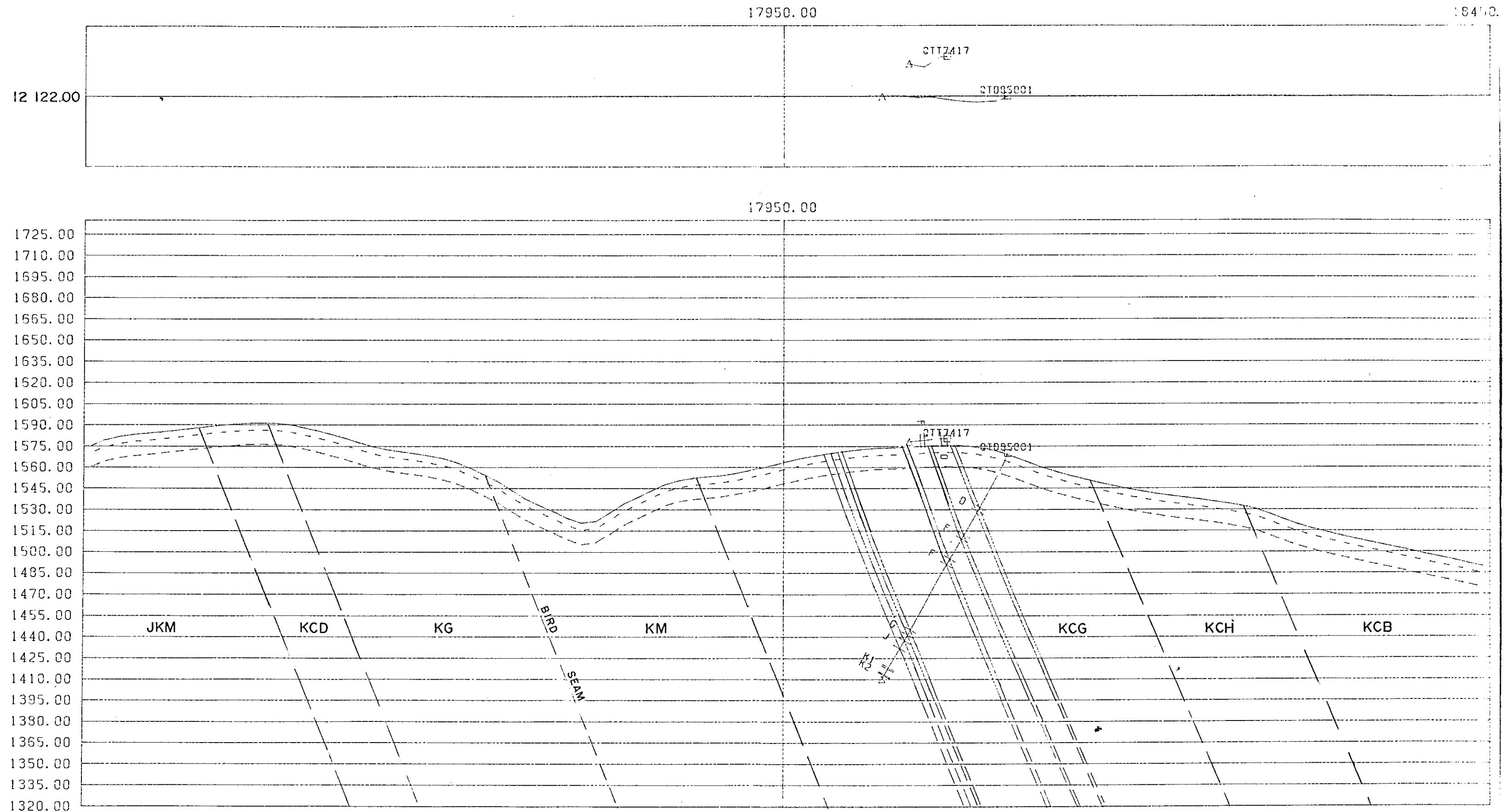
**QUINTETTE TREND SOUTH**

LOCATION **MAP**

SECTION 12122, 12778.~14165 and 14922

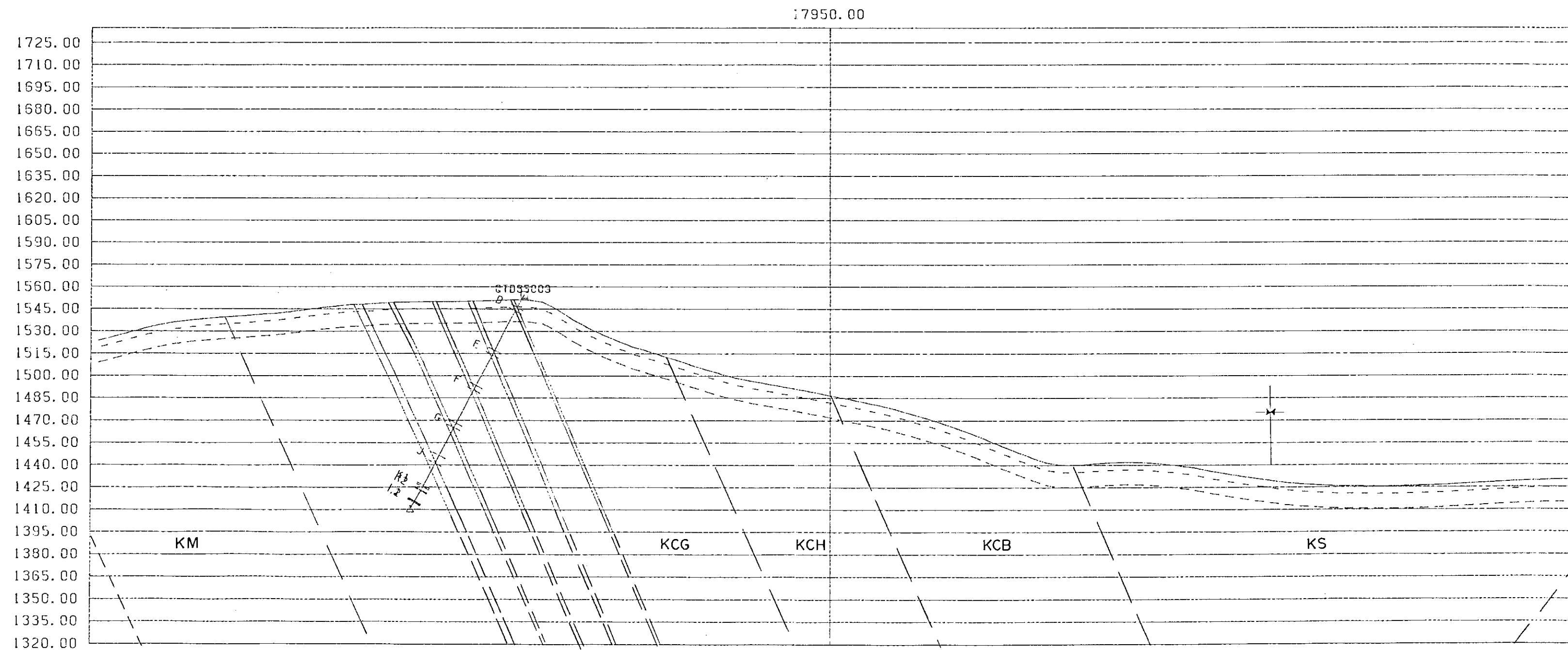
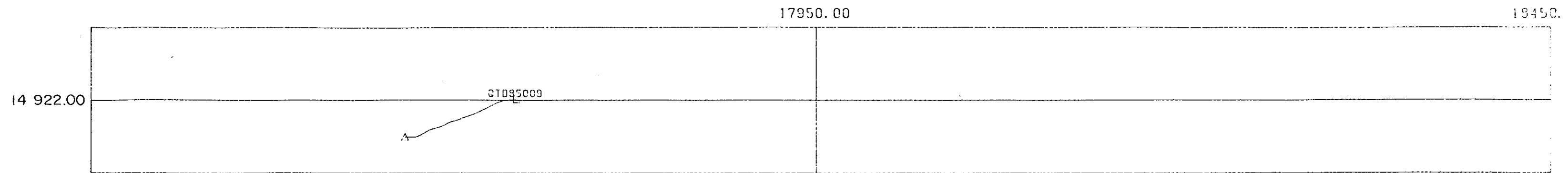
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SECTION 12122

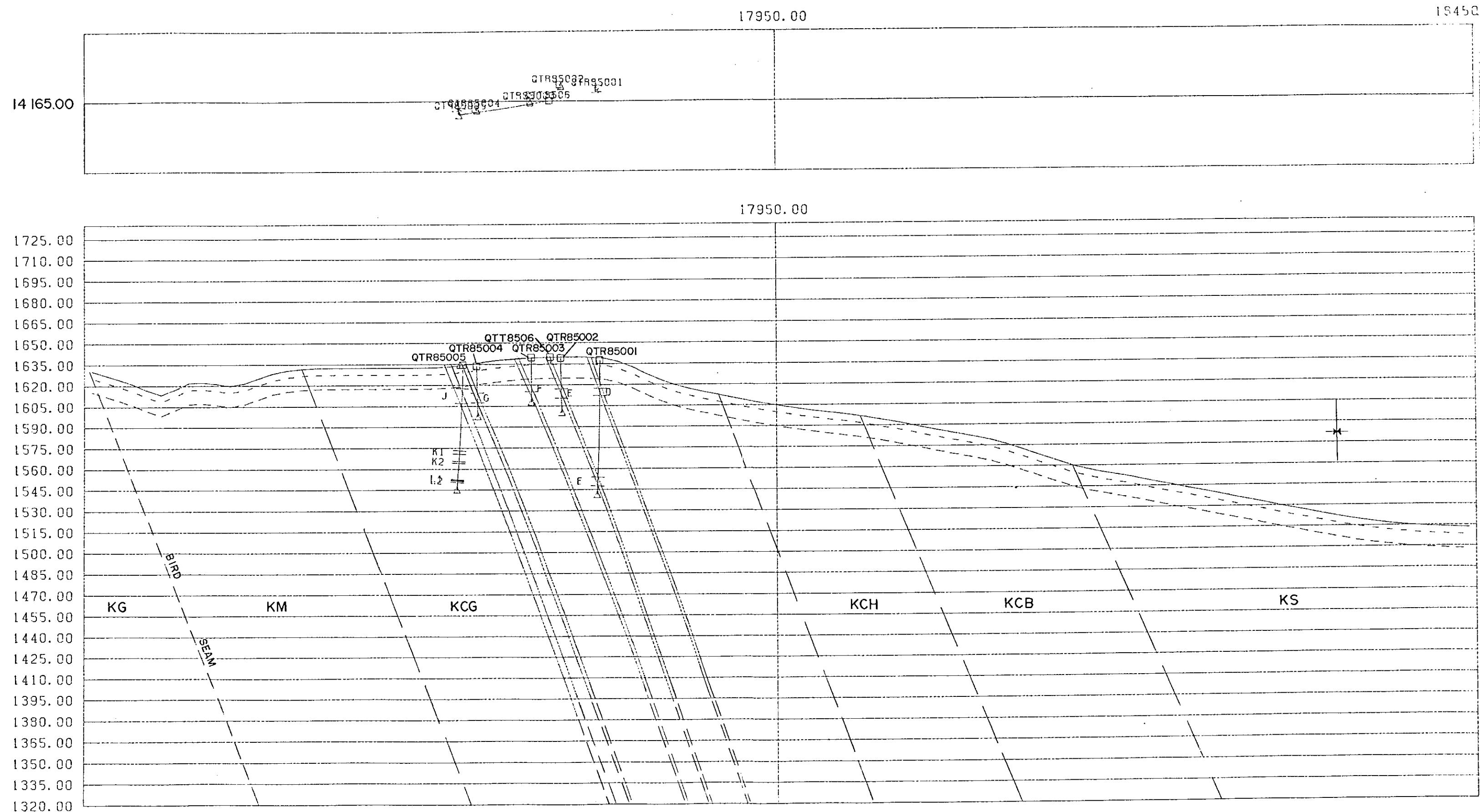
**500** SECTION 12122



SECTION 14922

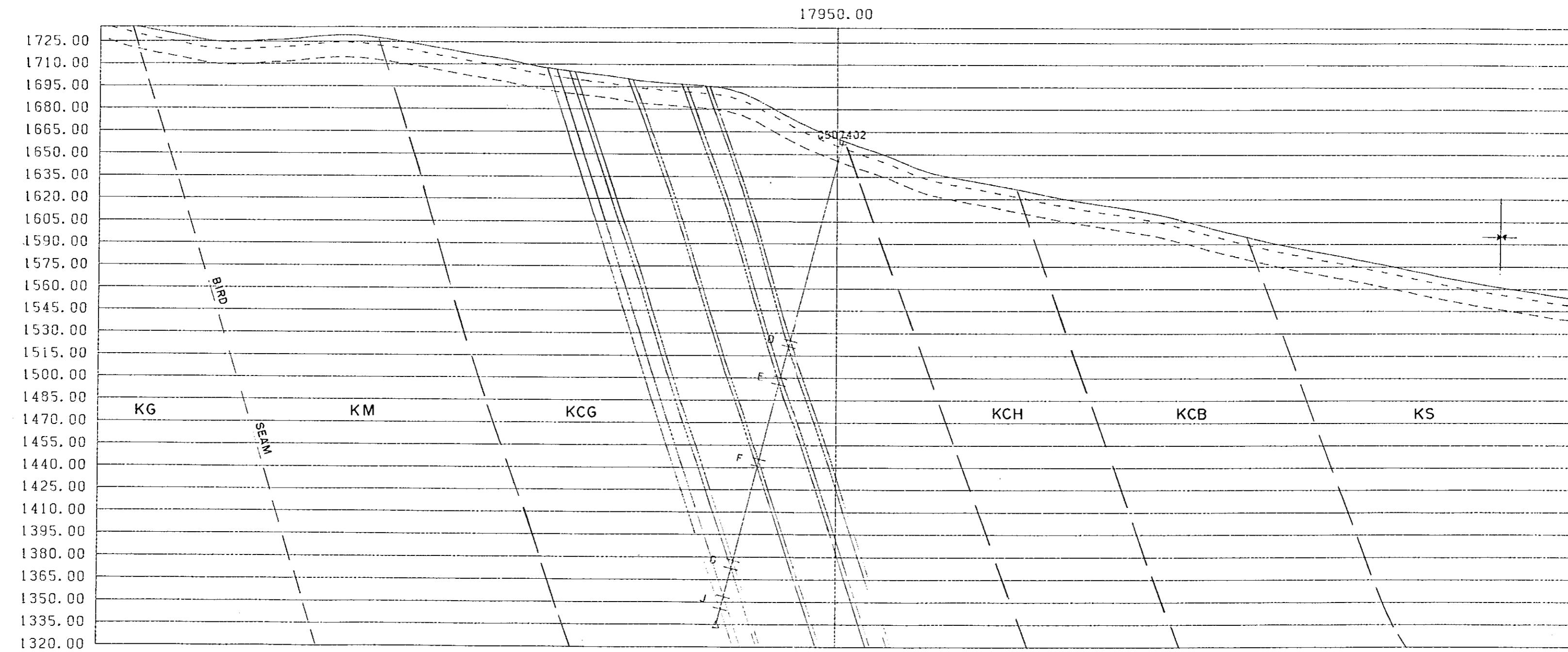
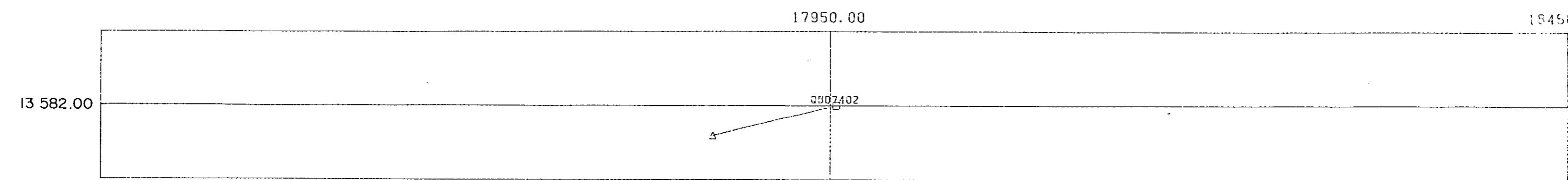
**500**

SECTION 14922



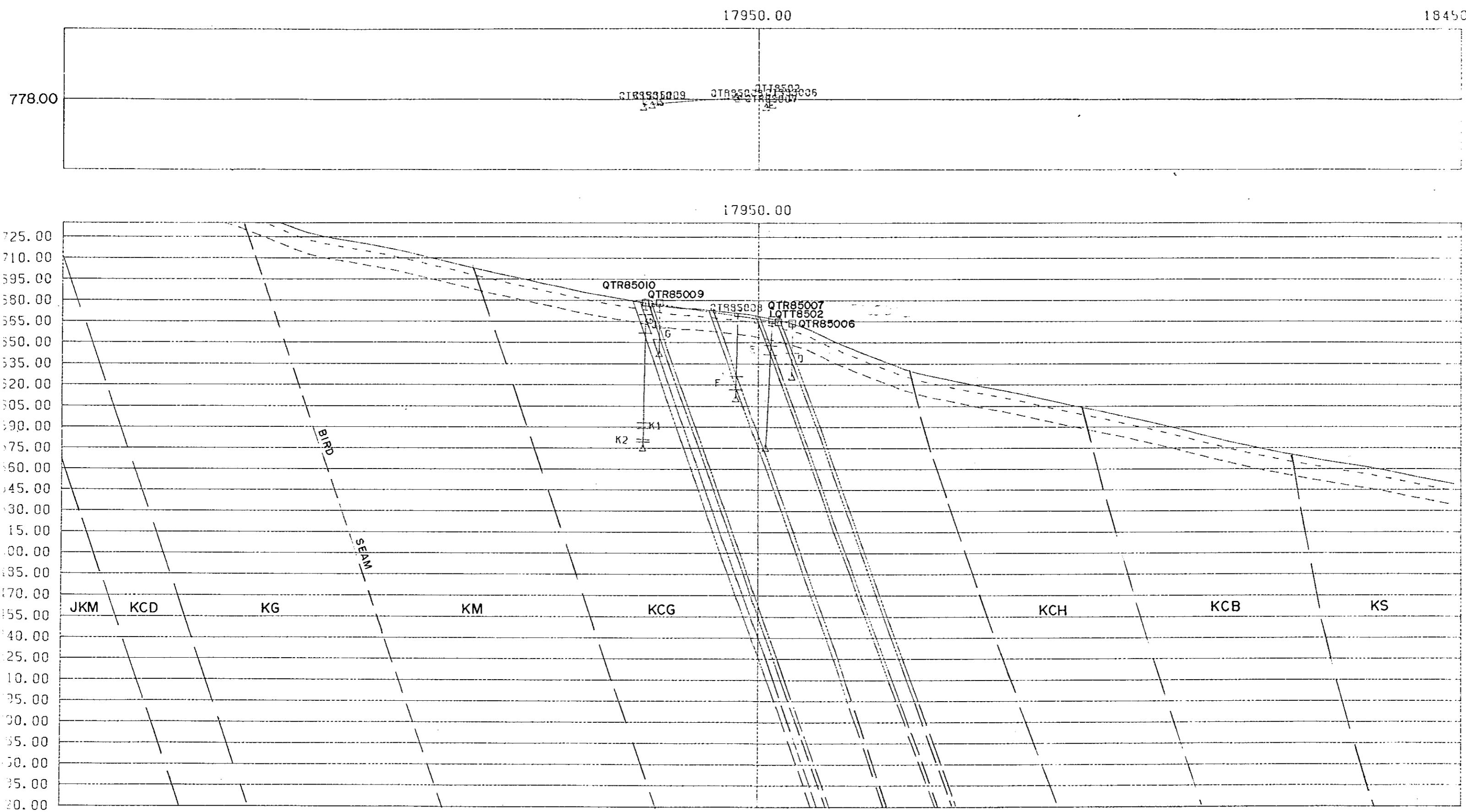
SECTION 14165

**500** SECTION 14165



SECTION 13582

**500** SECTION 13582



SECTION 12778

**500** SECTION 12778

**GEOLOGICAL ASSESSMENT REPORT  
QUINTETTE TREND SOUTH AND TRANSFER AREA, 1985**

**DIAMOND AND ROTARY DRILLING REPORT**

**DIAMOND DRILLING:**

Contractor: Canadian Longyear, Vancouver, British Columbia

Equipment: Longyear 44 and 38 drills equipped for HQ coring operation

Core Location: BC Mines Core Storage, Charlie Lake, British Columbia

Sampling: 100% of core representing Mining sections was sampled and analyzed by Cyclone Engineering Sales Limited, Edmonton, Alberta. Results have been previously reported.

Geophysical Logging: Gamma, Neutron, Density and Caliper. 1:200 general and 1:20 detailed scales. (Contractor - Century Geophysical, Quintette Trend; BPB Instruments, Transfer Area)

Logging Sheets: Records of the original core logging sheets are attached.

**ROTARY DRILLING:**

Contractor: Garrity and Baker Drilling, Edmonton, Alberta

Equipment: Mayhew 1000 Singlewall on Nodwell carrier

Sampling: Chip samples taken at 1 metre intervals in coal sections only. Samples were processed by Cyclone Engineering Sales Limited, Edmonton, Alberta. Results have been previously reported

Geophysical Logging: As above.

APPENDIX 1.2

**QUINTETTE TREND SOUTH**

DRILLING **SUMMARY** SHEETS  
CORE - QTD 86001 and QTD 85009  
ROTARY - QTR 85001 to QTR 85010

**Wittette Coal Limited**

## DRILL HOLE SUMMARY SHEET

PROJECT QUINTETTE TREND SOUTH  
PAGE 1 OF 3

NUMBER	HOLE ANGLE	COLLAR BEARING	TOTAL DEPTH	CORE SIZE	MAP / SECTION NUMBER										
QTD 85001	60	~ 298	183.90	HQ											
U. T. M. COORDINATES					DATE (DD/MM/YY)										
ELEVATION	NORTH		EAST	DRILLED	COPE I										
1570.39	6083396.14		632964.784	210785/240785	25 07 85										
GEO PHYSICAL DATA										OVERBURDEN					
DEN	BRD	LSD	HRD	GAM	NEUT	FRE	IBS	CAL	DIP	SLANT	Res		DEPTH	COMPOSED	
X				X	X			X	X	X	X			6.70	
20	X			X				X							



© Intertech Coal Limited

## DRILL HOLE SUMMARY SHEET

PROJECT .....

## MINING SECTION

## Quintette Coal Limited

## **DRILL HOLE SUMMARY SHEET**

## PROJET QUINTETTE TREND SOUTIEN

PAGE 1 1 3

ELEVATION [BASE]	DRILLED INTERVAL	AVG. BTN	MINING SECTION								COMMENTS
			TRUE THICKNESS	COAL/ROCK	RECOVER	INTERSEAM THICKNESS	DATE DRILLED	DATE SAMPLED	SAMPLE TAG No.	CMP LAB ID	
D	9.87-12.51		2.14		--	--	--	--			
E1	43.04-44.10		0.88		--	--	--	--			
E2F	44.10-44.72		0.53		--	--	--	--			
E2	44.72-45.30		0.50		--	--	--	--			
E3F	45.30-45.61		0.25		--	--	--	--			
E3	45.61-46.52		0.74		--	--	--	--			
E	43.04-46.52		2.90		--	--	--	--			
F1U	70.34-70.87		0.41		--	--	--	--			
F1	70.87-73.02		1.65		--	--	--	--			
F2P	73.02-73.25		0.18		--	--	--	--			
F2	73.25-73.81		0.43		--	--	--	--			
	70.34-73.81		2.67		--	--	--	--			





Waltette Coal Limited

## **DRILL HOLE SUMMARY SHEET**

PRO ' EC / QUINTETTE TREND SOUTH



**Writte Coal Limited**

## DRILL HOLE SUMMARY SHEET

PROJECI QUINTETTE TREND SOUT'.

PAGE . . . 1 OF 1

NUMBER	HOLE ANGLE	COLLAR BEARING	TOTAL DEPTH	CORE SIZE	PAGE	OF 1							
					MAP / SECTION (ELEV)								
MR 85003	90		31.6	54"									
U. T. M. COORDINATES						DATE (from / to)							
ELEVATION	NORTH			EAST			DRILLED	CORE (cm)					
1639.48	6084352.18			631128.796			28 07 85	28 07 85					
GEOPHYSICAL DATA									OVER BURDEN				
DEN	BRD	LSD	IRD	GAM	NEUT	TBE	FBS	CAI	DIR	SLANT	Res	DEPTH	COMPOSITION
X				X	X			X	X	X	X		
X				X				X				4.2	

Intette Coal Limited

## DRILL HOLE SUMMARY SHEET

PROJECT QUINTETTE TREND SOUT

PAGE 1 OF 1

NUMBER	HOLE ANGLE	COLLAR BEARING	TOTAL DEPTH	CORE SIZE	PAGE
QTR 85004	90		36.2	5"	1 OF 1

U. T. M. COORDINATES												DATE	
ELEVATION		NORTH						EAST					
1633.80		6084317.72						631109.448				290785/300785	30 07 85
1:200	x			x	x			x	x				
1:20	x			x							4.0		
GEO PHYSICAL DATA												OVERBURDEN	
DEN	BRD	LSD	HRD	GAM	NEUT	FBE	IBS	CAI	DIR	SLANT	Res	DEPTH	COMPOSITION

Jette Coal Limited

## DRILL-HOLE SUMMARY SHEET

PROJECT : QUINTETTE TREND SOUTH

PAGE 1 OF 1

NUMBER	HOLE ANGLE	COLLAR BEARING	TOTAL DEPTH	CORE SIZE	MAP / SECTION REF.
WTR 89005	0	- -	89.40	5 $\frac{1}{2}$ "	
U.T.M. COORDINATES	DATE (from / )				
ELEVATION	NORTH	EAST	DRILLED	CORE	
1034.39	6084308.83	631104.807	300785/310785	31 07 85	

## GEOPHYSICAL DATA

OVERBORDEN												DEPTH	COMPOSITION
LEN	BRD	USD	HRD	GAM	NEUT	FBF	FBS	CAL	DIR	SLANT	Res		
X				X	X			X	X	X	X		
X				X				X				6.1	

## OVERBURDEN

## MINING SECTION

•Viatte Coal Limited

## DRILL HOLE SUMMARY SHEET

P R Q , cc i QUINTETTE TREND SOUTIEN

PAGE 1 OF 1

NUMBER	HOLE ANGLE	COLLAR BEARING	TOTAL DEPTH	CORE SIZE	MAP / SECTION NUMBER									
QTR 85006	90		37.60	5 <sup>11</sup>										
U. T. M. COORDINATES														
ELEVATION	NORTH		EAST		DATE (mm / yy)									
1663.95	6083682.13		632358.591		DRILLED CORE LOCATED 05 08 85 06 08 85									
GEOPHYSICAL DATA														
DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT	Res	DEPTH	OVERBURDEN	COMPOSITION
X				X	X			X	X	X	X			
X				X				X				2.0		

**Wijfette Coal Limited**

## DRILL HOLE SUMMARY SHEET

PROJECT QUINTETTE TREND SOUTI  
PAGE 1 OF 1

NUMBER	HOLE ANGLE	COLLAR BEARING	TOTAL DEPTH	CORE SIZE	MAP / SECTION NUMBER									
QTR 85007	90		90.9	54"										
ELEVATION	U.T.M. COORDINATES		DATE (from / to)		DRILLED CORE LOC.									
	NORTH		EAST											
1665.32	6083667.68		632353.658		040885/050885 06 08 85									
GEO PHYSICAL DATA														
DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT	Res	DEPTH	OVERBURDEN	COMPOSITION
:200	X			X	X			X	X	X	X			
:20	X			X			X					3.0		

## MINING SECTION

## **Mette Coal Limited**

## DRILL 'HOLE SUMMARY SHEET

PROJECT QUINTETTE TREND SOUTH

HOLE NUMBER	HOLE ANGLE	COLLAR BEARING	TOTAL DEPTH	CORE SIZE	MAP / SECTION NUMBER										
QTR 85008	90		60.50	54"											
U. T. M. COORDINATES															
ELEVATION	NORTH		EAST		DATE (from / to)										
1671.00	6083650.37		632335.589	03 08 85	03 08 85										
GEOPHYSICAL DATA															
1:200	DEN	BRD	LSD	HRD	GAM	NEUT	FBE	FBS	C A L	DIR SIAN	Res			DEPTH	COMPOSITION
1:20	X				X		X		X		X			3.0	

## Quintette Coal Limited

## DRILL HOLE SUMMARY SHEET

PROJECT QUINTETTE TREND SOUTH

PAGE 1 OF 1

H / ID NUMBER	HOLE ANGLE	COLLAR BEARING	TOTAL DEPTH	CORE SIZE	MAP / SECTION NUMBER													
QTR 85009	90		36.00	5"														
U. T. M. COORDINATES					DATE (from / to)													
COLLAR ELEVATION	NORTH		EAST		DRILLED	CORE LOGS												
1678.35	6083604.71		632303.510		010885/020885	02-08-85												
GEO PHYSICAL DATA					OVERBURDEN													
IP	DEN	BRO	LSD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT	Res				DEPTH		COMPOSITION
1:200	x				x	x			x	x	x	x						
1:20	x				x			x				x				5.0		

MINING SECTION

## Quintette Coal Limited

## DRILL HOLE SUMMARY SHEET

PROJECI QUINTETTE TREND SOUTH

PAGE 1 OF 1

DRILL NUMBER	HOLE ANGLE	COLLAR BEARING	TOTAL DEPTH	COKE SIZE	MAP / SECTION NUMBER									
QTR 85010	90		103.30	54"										
U. T. M. COORDINATES														
COLLAR ELEVATION	NORTH		EAST		DATE (from / to)									
1678.67	6083596.45		632297.493	0430885/040885	08 85									
GEOPHYSICAL DATA														
S. ALT	DEN	BRD	LSD	HRD	CAM	NEUT	FBE	FRS	CAL	DISTANT	Res	DEPTH	OVERBURDEN	COMPOSITION
1:200	X				X	X			X	X	X			
1:20	X				X			X				2.0		

APPENDIX 1.3

**QUINTETTE TREND SOUTH**

**GENERAL GAMMA-DENSITY - CALIPER GEOPHYSICAL LOG  
(1:200)**

**QTD 85001 and QTD 85009  
.QTR 85001 to QTR 85010**



RECEIVED  
CENTURY GEOPHYSICAL CORP.

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

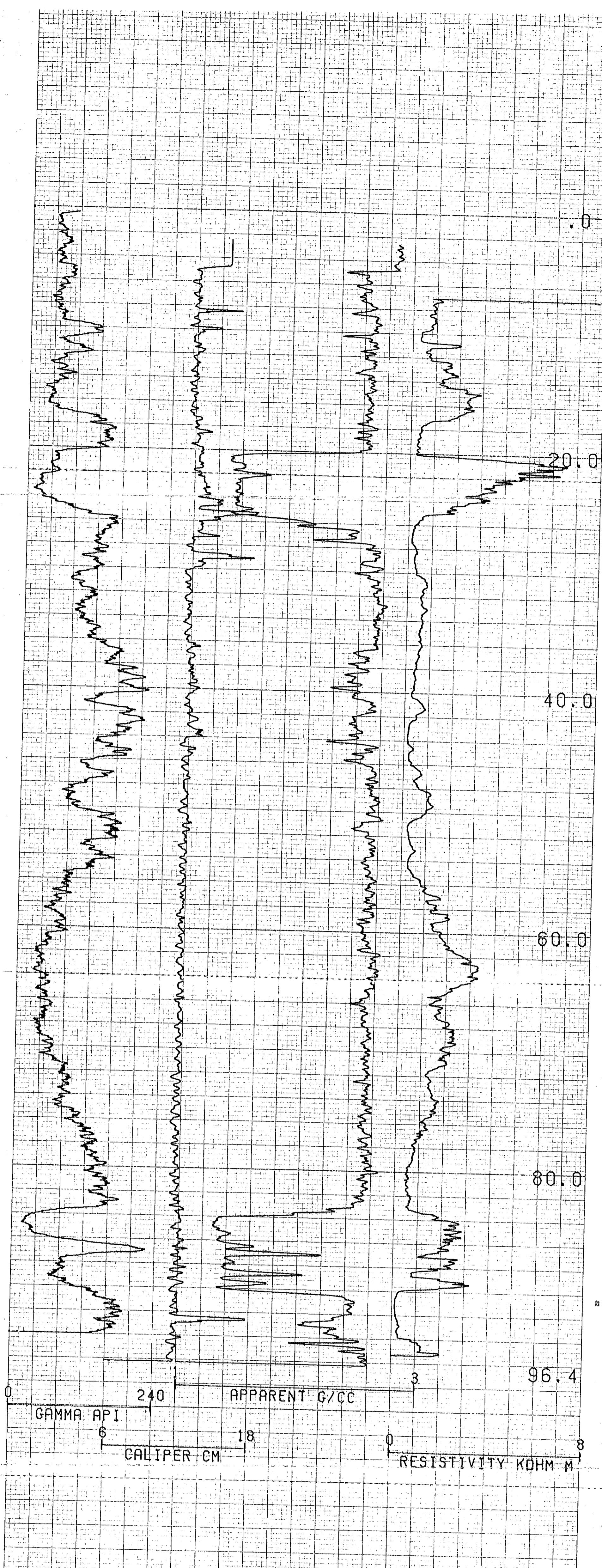
52

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

RECEIVED  
CENTURY GEOPHYSICAL CORP.

52

CENTURY GEOPHYSICAL CORP. PART NO. 786-0040

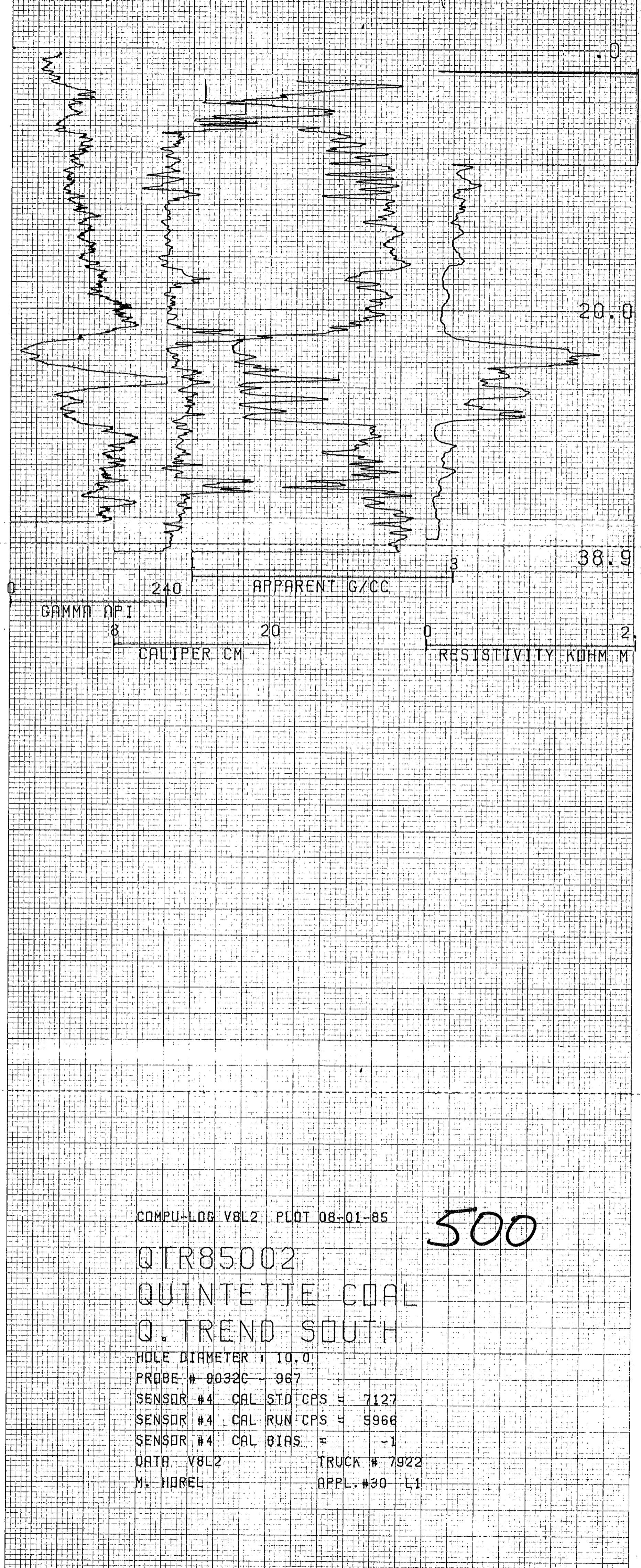


COMPU-LOG V8L2 PLOT 07-27-85

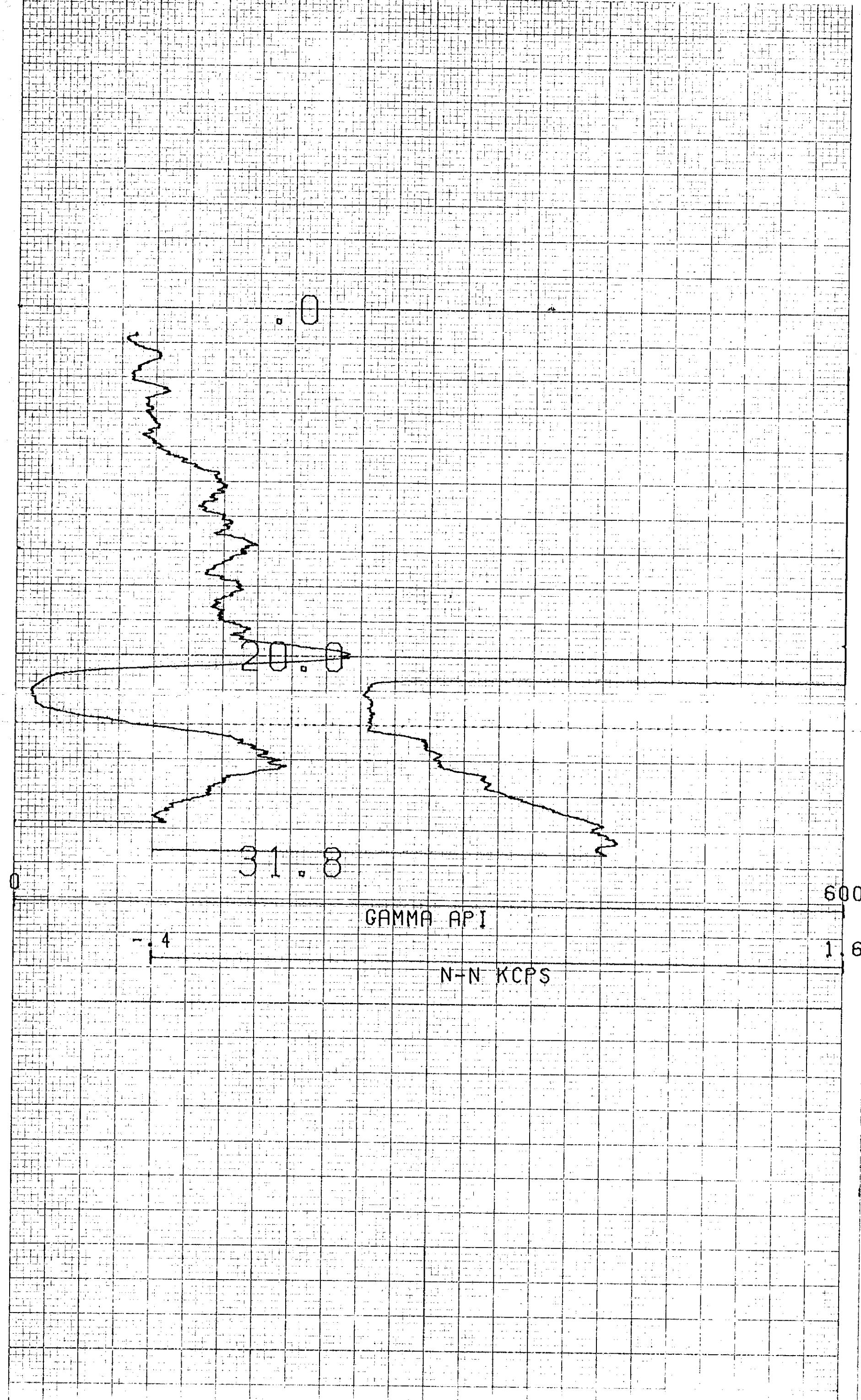
QTR85001 QUINTETTE COAL  
Q. TREND SOUTH

HOLE DIAMETER : 10.0  
PROBE # 9032C - 967  
SENSOR #4 CAL STD CPS = 7127  
SENSOR #4 CAL RUN CPS = 5966  
SENSOR #4 CAL BIAS = -1  
DATA V8L2\*A TRUCK # 7926  
M. MOREL APPL. #30 L1

279



453



COMPU-LOG V8L2 PLOT 07-28-85

500

QTR85003

QUINTETTE COAL

Q. TREND SOUTH

HOLE DIAMETER : 10.0

PROBE # 9055A - 246

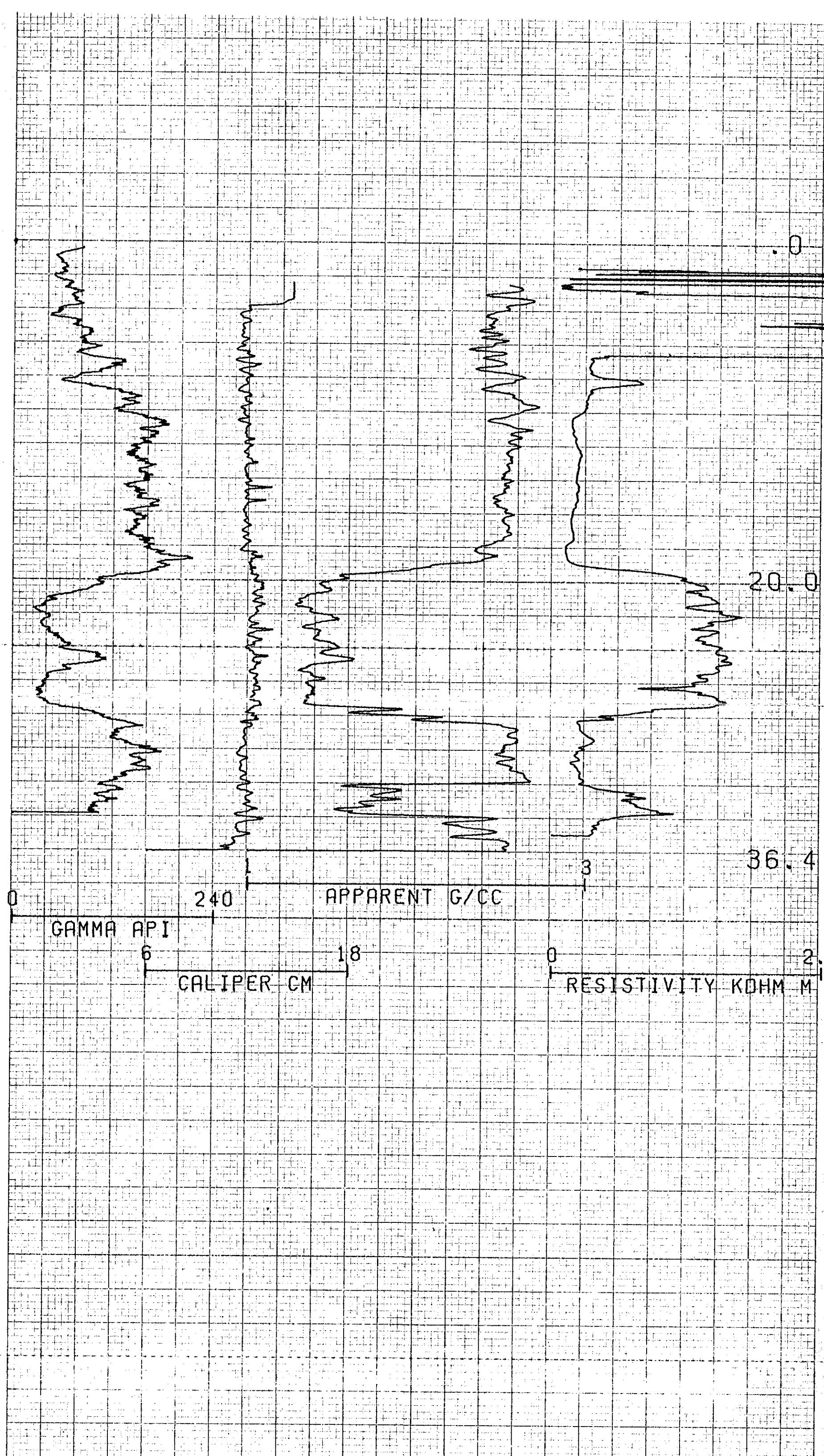
SENSOR #4 CAL STD CPS = 152

SENSOR #4 CAL RUN CPS = 166

SENSOR #4 CAL BIAS = 0

DATA V8L2 TRUCK # 7922

M. MOREL APPL. #7 L1



COMPU-LOG V8L2 PLOT 07-30-85

**500**

QTR85004

QUINTETTE COAL

Q. TREND SOUTH

HOLE DIAMETER : 10.0

PROBE # 9032C - 967

SENSOR #4 CAL STD CPS = 7127

SENSOR #4 CAL RUN CPS = 5966

SENSOR #4 CAL BIAS = -1

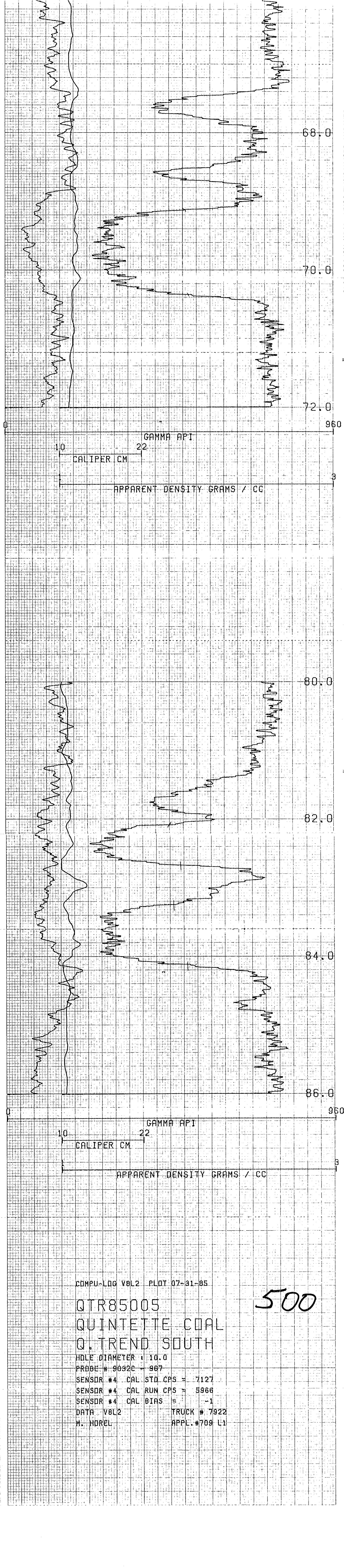
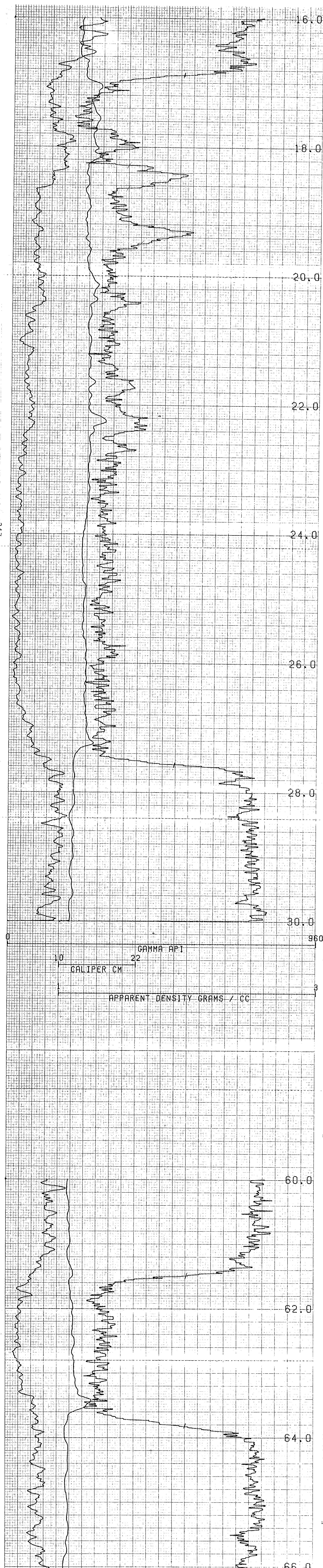
DATA V8L2

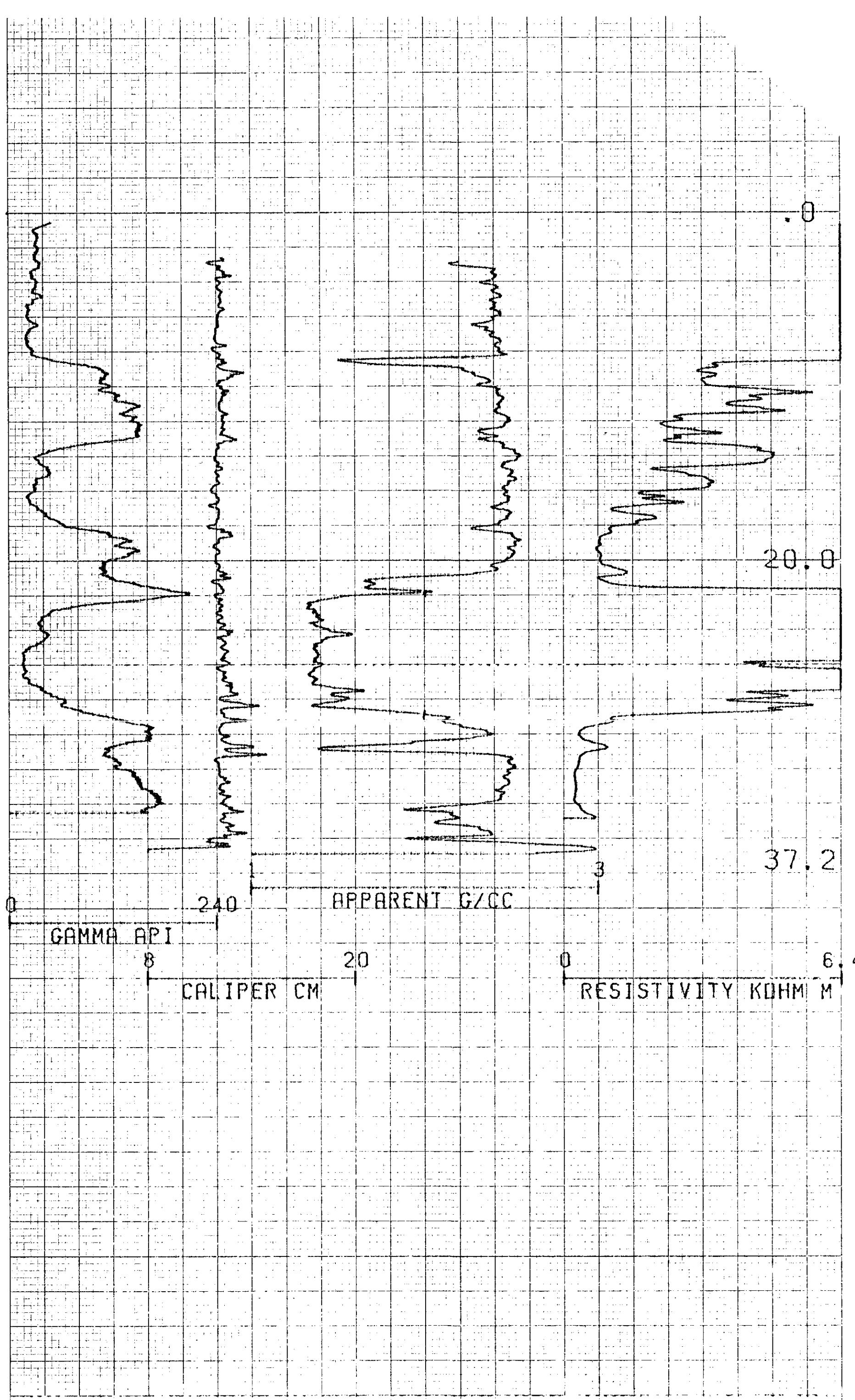
M. HOREL

TRUCK # 7922

APPL.#30 L1

CENTURY GEOPHYSICAL CORP. PART NO. 786-U040





COMPU-LOG VBL2 PLOT

500

85006  
QUINTETTE COAL  
Q. TREND SOUTH

HOLE DIAMETER : 10.0

PROBE # 9030A - 420

SENSOR #4 CAL STD CPS = 6588

SENSOR #4 CAL RUN CPS = 5141

SENSOR #4 CAL BIAS = 31

DATA VBL2

TRUCK # 7922

M. HOREL

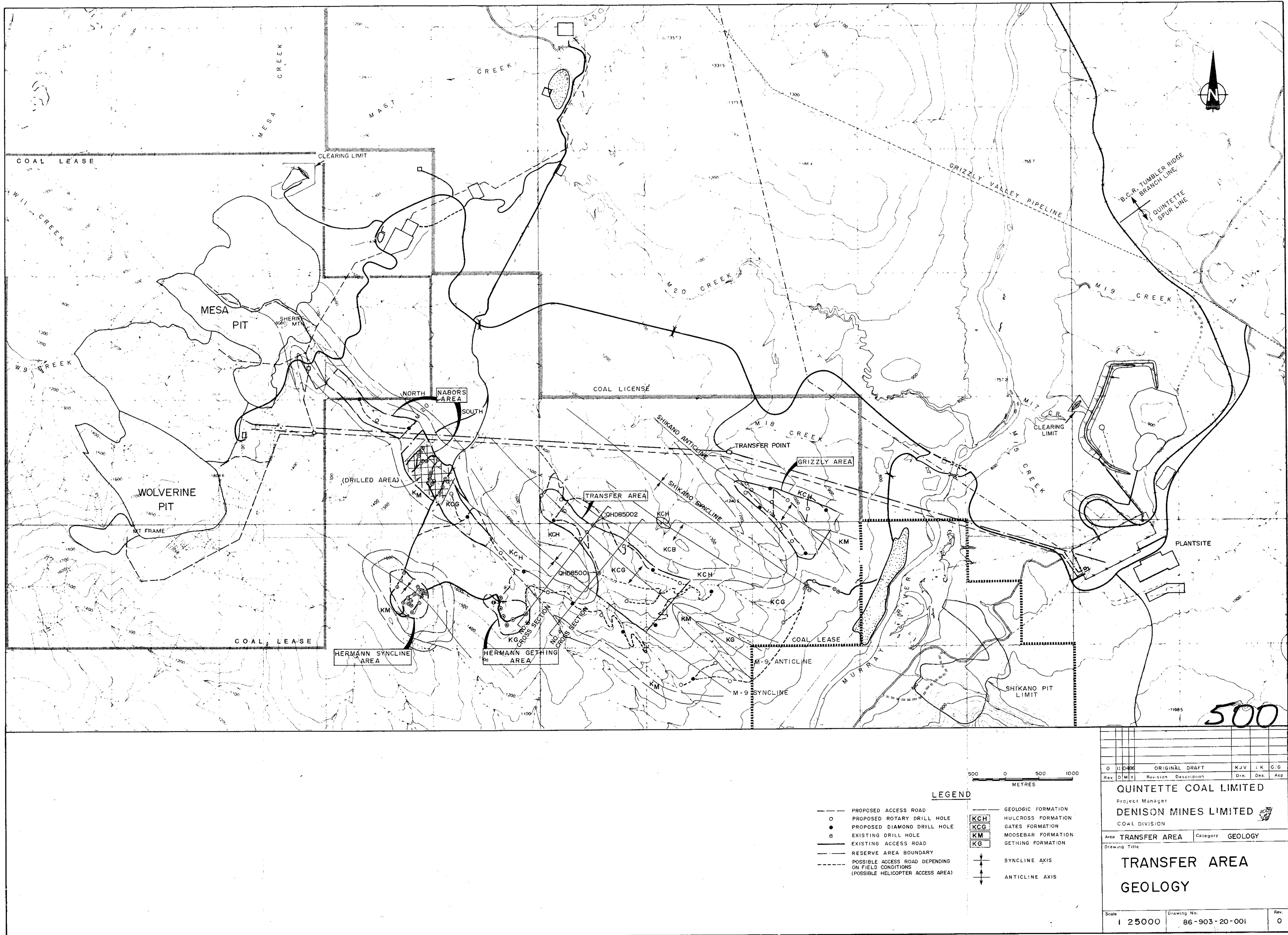
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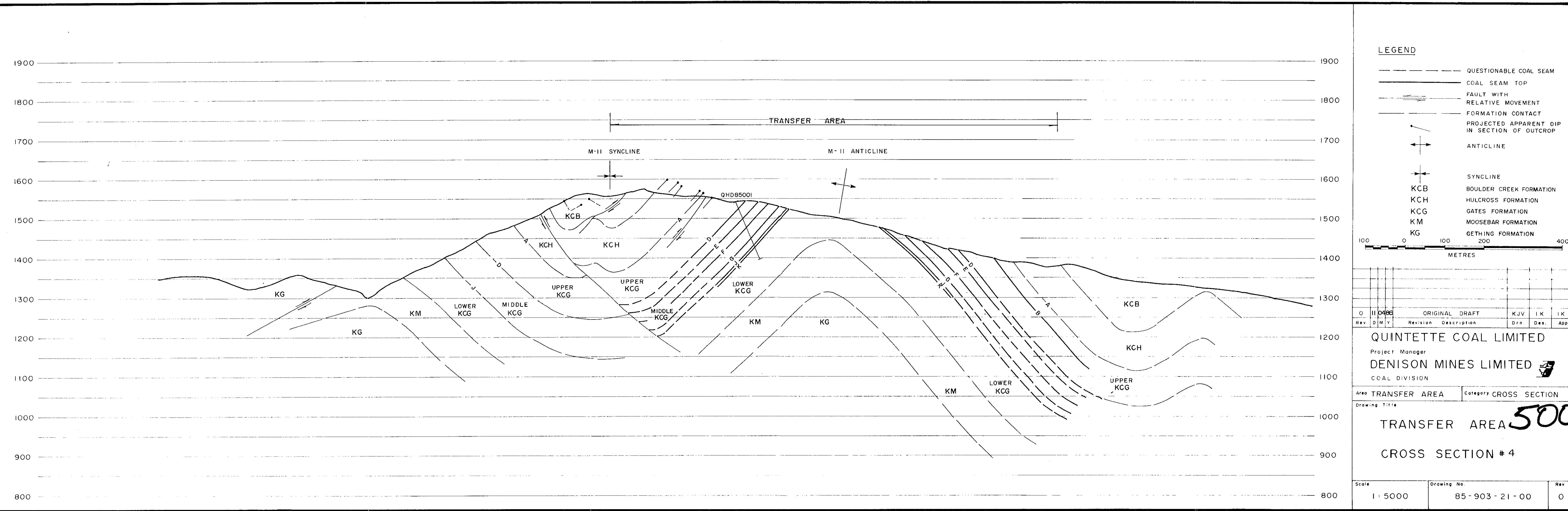


**APPENDIX 2.1**

**TRANSFER AREA**

**LOCATION MAP  
SECTIONS #4 and #5**





500

## LEGEND

QUESTIONABLE COAL SEAM
COAL SEAM TOP
FAULT WITH RELATIVE MOVEMENT
FORMATION CONTACT
PROJECTED APPARENT DIP IN SECTION OF OUTCROP
ANTICLINE
SYNCLINE
KCB BOULDER CREEK FORMATION
KCH HULLCROSS FORMATION
KCG GATES FORMATION
KM MOOSEBAR FORMATION
KG GETHING FORMATION

100      0      100      200      400  
METRES

O	20	11	85	ORIGINAL DRAFT	KJV	I	K	I	K
Rev	D	M	Y	Revision	Description	Dra	Des	App	

QUINTETTE COAL LIMITED

Project Manager

DENISON MINES LIMITED

COAL DIVISION

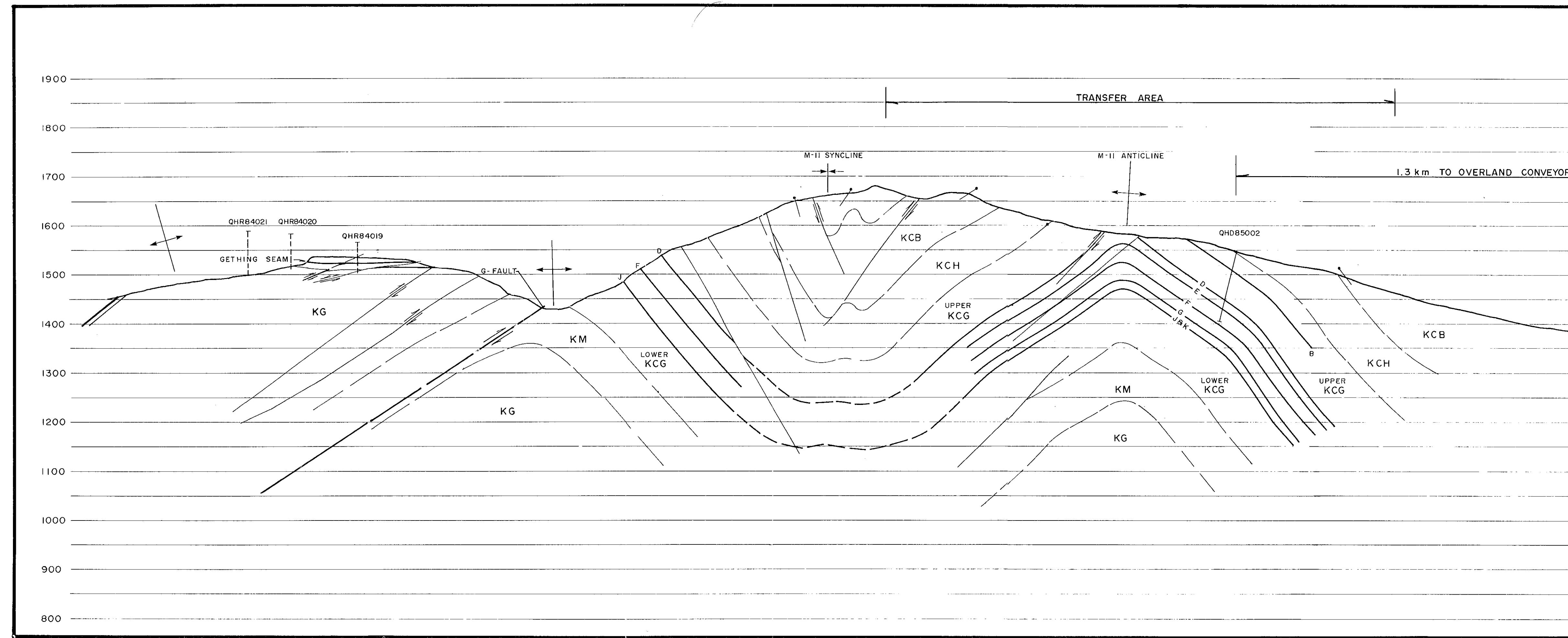
Area TRANSFER AREA Category CROSS SECTION

Drawing Title

TRANSFER AREA

CROSS SECTION # 5

Scale	1 : 5000	Drawing No	85-903-21-002	Rev
				0



**APPENDIX 2.2**

**TRANSFER AREA**

**CORE DRILLING SUMMARY SHEETS  
QHD 85001 and QHD 85002**





Writte Coal Limited

## DRILL HOLE SUMMARY SHEET

Project

## Transfer

PAGE . . . 1 . . . OF 1

NUMBER	HOLE ANGLE	COLLAR BEARING	TOTAL DEPTH	CORE SIZE	MAP / SECTION NUMBER
SHD 85002	77	228	140.00	HQ	

**U.T.M. COORDINATES (Not surveyed)**

ELEVATION	NORTH	EAST	DRILLED	CORE
1547	~ 6096257	- 621330	Aug.18,1985	

## GEOPHYSICAL DATA

DEN	BRD	ISD	HRD	GAM	NEUT	FBE	FBS	CAL	DIR	SLANT	Res.		DEPTH	COMPOSITION
X				X	X			X	X	X	X			
X				X				X						

OVERBURDEN

MINING SECTION

APPENDIX 2.3

TRANSFER AREA

**GENERAL GAMMA-DENSITY - CALIPER GEOPHYSICAL LOG (1:200)**  
**QHD 85001 and QHD 85002**





ITEMIZED COST LISTING  
FOR 1985 QUINNTE GEOLOGICAL EXPLORATION REPORT  
QUINNTE TREND SOUTH AND TRANSFER EXPLORATION AREAS  
APRIL, 1986

Please do not copy  
this section.





09-Dec-85

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1	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	
2	FILENAME: GEOLOGY	AS OF: 09-Dec-85																					
3		PURCHASE ORDER			INVOICE																		
4	VENDOR	NO.	DATE	\$	NO.	DATE	PERIOD	\$	TYPE	OPERATING	CAPITAL	#	CAP. RCE	REMAINING	PAID		TO BE					PAID	
5	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	
222	SUB TTL	08519745		25,425.00				17,708.10		0.00	17,708.10			7,716.90				0.00					
223																							
224	OKANAGAN HELICOPTERS	08519877	29-Aug-85	85,000.00	887	07-Aug-85		16,466.44	2	0.00	16,466.44	859001	68,533.56					0.00					
225	OKANAGAN HELICOPTERS	08519877	29-Aug-85		949	14-Aug-85		21,614.90	3	0.00	21,614.90	859001	46,918.66					0.00					
226	OKANAGAN HELICOPTERS	08519877	29-Aug-85		982	21-Aug-85		7,647.15	2	0.00	7,647.15	859001	39,271.51					0.00					
227	OKANAGAN HELICOPTERS	08519877	29-Aug-85		997	23-Aug-85		879.30	2	0.00	879.20	859001	38,392.31					0.00					
228	OKANAGAN HELICOPTERS	08519877	29-Aug-85		1040	28-Aug-85		5,909.60	2	0.00	5,909.60	859001	32,482.71					0.00					
229	OKANAGAN HELICOPTERS	08519877	29-Aug-85		1046	29-Aug-85		20,430.80	2	0.00	20,430.80	859001	12,051.91					0.00					
230	OKANAGAN HELICOPTERS	08519877	29-Aug-85		1064	30-Aug-85		1,443.36	2	0.00	1,443.36	859001	10,608.55					0.00					
231	OKANAGAN HELICOPTERS	08519877	29-Aug-85		0	09-Oct-85		3,276.32	2	0.00	3,276.32	859001	7,332.23	2	3,276.32								
232	SUB TTL	08519877		85,000.00				77,667.77		0.00	77,667.77		7,332.23		3,276.32								
233																							
234	OKANAGAN HELICOPTERS	08522099	28-Sep-85	4,790.00	1068	09-Mar-85		750.00	2	0.00	750.00	859001	4,040.00					0.00					
235	OKANAGAN HELICOPTERS	08522099	28-Sep-85		1096	09-Sep-85		(4,040.00)	2	0.00	(4,040.00)	859001	8,080.00					0.00					
236	OKANAGAN HELICOPTERS	08522099	28-Sep-85		1171	20-Sep-85		2,187.18	2	0.00	2,187.18	859001	5,892.82					0.00					
237	OKANAGAN HELICOPTERS	08522099	28-Sep-85		0	09-Oct-85		3,603.68	2	0.00	3,603.68	855014	2,289.14					0.00					
238	SUB TTL	08522099		4,790.00				2,500.86		0.00	2,500.86		2,289.14		0.00								
239																							
240	OKANAGAN HELICOPTERS TTL		115,215.00	115,215.00				97,876.73	TTL	0.00	97,876.73		17,338.27		3,276.32								
241																							
242	PACIFICANA	08518335	12-Aug-85	5,500.00	6	13-Sep-85	1 AUG-1 SEP	5,500.00	TTL	0.00	5,500.00	855009	0.00		0.00								
243																							
244	PEREGRINE	08503457	12-Feb-85	920.20	9195	07-Mar-85		490.20	1	490.20	0.00		430.00		0.00								
245	PEREGRINE	08503457	12-Feb-85					430.00	1	430.00	0.00		.00		0.00								
246	SUB TTL	08503457		920.20				920.20		920.20	0.00		0.00		0.00								
247																							
248	PEREGRINE	08509182	25-Apr-85	802.50	9286	25-Apr-85		794.48	2	0.00	794.48	855009	8.02		0.00								
249																							
250	PEREGRINE TTL			1,722.70				1,714.68	TTL	920.20	794.48		8.02		0.00								
251																							
252	QUADRA VENTURES	08502179	28-Jan-85	13,200.00	33	13-Jan-85	3 DEC-13 JAN	3,053.24	2	0.00	3,053.24	855009	10,146.76		0.00								
253	QUADRA VENTURES	08502179	28-Jan-85		35	27-Jan-85		948.98	2	0.00	948.98	855009	9,197.78		0.00								
254	QUADRA VENTURES	08502179	28-Jan-85		37	10-Feb-85		3,672.14	2	0.00	3,672.14	855009	5,525.64		0.00								
255	QUADRA VENTURES	08502179	28-Jan-85		44	24-Feb-85		557.01	2	0.00	557.01	855009	4,968.63		0.00								
256	QUADRA VENTURES	08502179	28-Jan-85		41	24-Feb-85		5,095.61	2	0.00	5,095.61	855009	(126.98)		0.00								
257	QUADRA VENTURES	08502179	28-Jan-85		42	24-Feb-85		123.79	2	0.00	123.79	855009	(250.76)		0.00								
258	QUADRA VENTURES	08502179	28-Jan-85		49	10-Mar-85		4,167.26	2	0.00	4,167.26	855009	(4,418.02)		0.00								
259	SUB TTL	08502179		13,200.00				17,618.02		0.00	17,618.02		(4,418.02)		0.00								
260																							
261	QUADRA VENTURES	08505789	12-Mar-85		54	24-Mar-85		2,372.45	2	0.00	2,372.45	855009	10,427.55		0.00								
262	QUADRA VENTURES	08505789	12-Mar-85	12,800.00	61	07-Apr-85		1,836.07	2	0.00	1,836.07	855009											

1	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	
2	FILENAME: GEOLOGY				AS OF:	09-Dec-85																	
3																							
4	VENDOR																						
5																							
277	SDS DRILLING		08505268	06-Mar-85		6372	29-Mar-85	ADJUSTMENT	(400.00)	2	0.00	(400.00)	855009	89,316.49								0.00	
278	SDS DRILLING		08505268	06-Mar-85	157,200.00	6405	25-Apr-85	27 FEB	699.20	2	0.00	699.20	855009	88,617.29								0.00	
279		SUB TTL	08505268		157,200.00				68,582.71		0.00	68,582.71		88,617.29								0.00	
280																							
281	SDS DRILLING		08519883	29-Aug-85	150,000.00	6455	24-Jul-85	3-9 JUL	29,711.53	1/2	37,511.53	2,200.00	855014	120,288.47								0.00	
282	SDS DRILLING		08519883	29-Aug-85		6462	24-Jul-85		(148.33)	1	(148.33)	0.00		120,436.80								0.00	
283	SDS DRILLING		08519883	29-Aug-85		6463	30-Jul-85	10-13 JUL	18,129.00	1/2	2,440.00	15,689.00	855014	102,307.80								0.00	
284	SDS DRILLING		08519883	29-Aug-85		6464	30-Jul-85	14-18 JUL	11,378.50	1/2	6,907.50	4,471.00	855014	90,929.30								0.00	
285	SDS DRILLING		08519883	29-Aug-85		6473	09-Aug-85	23-29 JUL	39,922.50	1/2	7,718.10	32,204.40	855014	51,006.80								0.00	
286	SDS DRILLING		08519883	29-Aug-85		6472	09-Aug-85	19-23 JUL	10,733.30	1/2	1,982.30	8,751.00	855014	40,273.50								0.00	
287		SUB TTL	08519883		150,000.00				109,726.50		46,411.10	63,315.40		40,273.50								0.00	
288																							
289	SDS DRILLING		08519938	30-Aug-85	60,000.00	6441	04-Jul-85	19-26 JUN	24,917.85	2	0.00	24,917.85	858021	35,082.15								0.00	
290	SDS DRILLING		08519938	30-Aug-85		6442	05-Jul-85	26 JUN-2 JUL	24,250.04	2	0.00	24,250.04	858021	10,832.11								0.00	
291		SUB TTL	08519938		60,000.00				49,167.89		0.00	49,167.89		10,832.11								0.00	
292																							
293	SDS DRILLING TTL			367,200.00	367,200.00				227,477.10	TTL	46,411.10	181,066.00		139,722.90								0.00	
294																							
295	TARGET TUNNELLING		08511689	23-May-85	184,971.75	383	24-Apr-85		46,403.80	2	0.00	46,403.80	855009	138,567.95								0.00	
296	TARGET TUNNELLING		08511689	23-May-85		389	02-May-85		29,167.00	2	0.00	29,167.00	855009	109,400.95								0.00	
297	TARGET TUNNELLING TTL		08511689		184,971.75				75,570.80	TTL	0.00	75,570.80		109,400.95								0.00	
298																							
299	THE ORTHOSHOP		08514879	02-Jul-85	1,000.00	1785	08-Jul-85		1,010.00	2	0.00	1,010.00	858021	(10.00)								0.00	
300																							
301	THE ORTHOSHOP		08517268	29-Jul-85		1899	09-Sep-85		510.86	2	0.00	510.86	859001	25,289.14								0.00	
302	THE ORTHOSHOP		08517268	29-Jul-85		1921	18-Sep-85		2,828.00	2	0.00	2,828.00	859001	22,461.14								0.00	
303	THE ORTHOSHOP		08517268	29-Jul-85		1950	25-Sep-85		9,218.26	2	0.00	9,218.26	859001	13,242.88								0.00	
304	THE ORTHOSHOP		08517268	29-Jul-85		2021	23-Oct-85		11,670.10	2	0.00	11,670.10	859001	1,572.78	2.00	11,670.10							
	THE ORTHOSHOP		R28167CAP	05-Dec-85	3,600.00									1,572.78									
	THE ORTHOSHOP		R28167CAP	05-Dec-85										1,572.78									
	THE ORTHOSHOP		R28167CAP	05-Dec-85										1,572.78									
305	THE ORTHOSHOP		08517268	29-Jul-85	22,200.00	?	TO COME		1,500.00	2	0.00	1,500.00	859001	72.78	2.00	1,500.00							
306		SUB TTL	08517268		25,800.00				25,727.22		0.00	25,727.22		72.78								13,170.10	
307																							
308	THE ORTHOSHOP TTL				26,800.00				26,737.22	TTL	0.00	26,737.22		62.78								13,170.10	
309																							
310	TONTO DRILLING		08503953	19-Feb-85		5774C	31-Jan-85	12-31 JAN	46,888.92	2	0.00	46,888.92	855009	179,311.08								0.00	
311	TONTO DRILLING		08503953	19-Feb-85		5778C	15-Feb-85	1-15 FEB	35,587.69	2	0.00	35,587.69	855009	143,723.39								0.00	
312	TONTO DRILLING		08503953	19-Feb-85		5790C	28-Feb-85	16-28 FEB	35,121.07	2	0.00	35,121.07	855009	108,602.32								0.00	
313	TONTO DRILLING		08503953	19-Feb-85		5798C	14-Mar-85	1-14 MAR	67,576.37	2	0.00	67,576.37	855009	41,025.95								0.00	
314	TONTO DRILLING		08503953	19-Feb-85	226,200.00	5808C</																	

1	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	
2	FILENAME: GEOLOGY				AS OF:	09-Dec-85																	
3		PURCHASE ORDER						INVOICE				\$'s	\$'s	CAP.	RCE	REMAINING	PAID		TO BE				
4	VENDOR		NO.	DATE	\$			NO.	DATE	PERIOD	\$	TYPE	OPERATING	CAPITAL	#	IN P.O.	Y/N		PAID				
5	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	=====	
329	WESTERN HYDRO AIR		08503381	12-Feb-85				156	01-Feb-85		43,915.87	1	43,915.87	0.00		257,926.68			0.00				
330	WESTERN HYDRO AIR		08503381	12-Feb-85				154	01-Feb-85		18,881.56	1	18,881.56	0.00		239,045.12			0.00				
331	WESTERN HYDRO AIR		08503381	12-Feb-85				157	16-Feb-85		31,332.62	1	31,332.62	0.00		207,712.50			0.00				
332	WESTERN HYDRO AIR		08503381	12-Feb-85				161	28-Feb-85		22,180.70	1	22,180.70	0.00		185,531.80			0.00				
333	WESTERN HYDRO AIR		08503381	12-Feb-85				163	16-Mar-85		34,600.00	1	34,600.00	0.00		150,931.80			0.00				
334	WESTERN HYDRO AIR		08503381	12-Feb-85				167	31-Mar-85 to 31 MAR		62,922.95	1	62,922.95	0.00		88,008.85			0.00				
335	WESTERN HYDRO AIR		08503381	12-Feb-85				165	31-Mar-85 18-27 MAR		33,609.98	1	33,609.98	0.00		54,398.87			0.00				
336	WESTERN HYDRO AIR		08503381	12-Feb-85				171	15-Apr-85		24,709.95	1	24,709.95	0.00		29,688.92			0.00				
337	WESTERN HYDRO AIR		08503381	12-Feb-85				172	02-May-85		15,753.50	1	15,753.50	0.00		13,935.42			0.00				
338	WESTERN HYDRO AIR		08503381	12-Feb-85				173	02-May-85 to 30 APR		56,976.68	1	56,976.68	0.00		(43,041.26)			0.00				
339	WESTERN HYDRO AIR		08503381	12-Feb-85	331,800.00			170	14-May-85		7,120.20	1	7,120.20	0.00		(50,161.46)			0.00				
340	SUB ITL		08503381		331,800.00				P.O.FINI		381,961.46		381,961.46	0.00		(50,161.46)			0.00				
341																							
342	WESTERN HYDRO AIR		08503413	12-Feb-85				155	01-Feb-85		10,629.22	2	0.00	10,629.22	1	855009	153,170.78		0.00				
343	WESTERN HYDRO AIR		08503413	12-Feb-85				159	16-Feb-85		32,773.18	2	0.00	32,773.18	1	855009	120,397.60		0.00				
344	WESTERN HYDRO AIR		08503413	12-Feb-85				160	28-Feb-85		13,923.18	2	0.00	13,923.18	1	855009	106,474.42		0.00				
345	WESTERN HYDRO AIR		08503413	12-Feb-85				162	18-Mar-85		63,800.34	2	0.00	63,800.34	1	855009	42,674.08		0.00				
346	WESTERN HYDRO AIR		08503413	12-Feb-85				166	31-Mar-85 to 31 MAR		13,067.92	2	0.00	13,067.92	1	855009	29,606.16		0.00				
347	WESTERN HYDRO AIR		08503413	12-Feb-85	163,800.00			169	07-May-85 to 10 APR		34,974.49	2	0.00	34,974.49	1	855009	(5,368.33)		0.00				
348	SUB ITL		08503413		163,800.00				P.O.FINI		169,168.33		0.00	169,168.33			(5,368.33)		0.00				
349																							
350	WESTERN HYDRO AIR		08513112	10-Jun-85				174	15-May-85 to 15 MAY		36,967.65	1	36,967.65	0.00		288,032.35			0.00				
351	WESTERN HYDRO AIR		08513112	10-Jun-85				175	15-May-85 to 15 MAY		20,675.13	1	20,675.13	0.00		267,357.22			0.00				
352	WESTERN HYDRO AIR		08513112	10-Jun-85	325,000.00			177	31-May-85		36,709.25	1/2	38,765.30	7,943.95	1	855014	230,647.97		0.00				
353	WESTERN HYDRO AIR		08513112	25-Jun-85				176	31-May-85		30,999.07	1/2	27,885.25	3,113.82	1	855014	299,648.90		0.00				
354	WESTERN HYDRO AIR		08513112	25-Jun-85				178	14-Jun-85		11,250.98	1	11,250.98	0.00		288,397.92			0.00				
355	WESTERN HYDRO AIR		08513112	25-Jun-85				180	16-Jun-85 to 15 JUN		44,288.21	1	44,288.21	0.00		244,109.71			0.00				
356	WESTERN HYDRO AIR		08513112	25-Jun-85				182	30-Jun-85		46,243.12	1/2	30,408.02	15,835.10	1	855014	197,866.59		0.00				
357	WESTERN HYDRO AIR		08513112	25-Jun-85				183	16-Jul-85		16,434.70	1/2	5,054.73	11,379.97	1	855014	181,431.89		0.00				
358	WESTERN HYDRO AIR		08513112	25-Jun-85				184	18-Jul-85		34,652.63	1	34,652.63	0.00		146,779.26			0.00				
359	WESTERN HYDRO AIR		08513112	25-Jun-85				187	31-Jul-85		42,956.80	1/2	11,492.90	31,463.90	1	855014	103,822.46		0.00				
360	WESTERN HYDRO AIR		08513112	25-Jun-85	100,000.00			188	15-Aug-85 to 15 AUG		45,767.24	1/2	32,713.56	13,053.68	1	855014	58,055.22		0.00				
361	SUB ITL		08513112		425,000.00						366,944.78		284,154.36	82,790.42			58,055.22			0.00			
362																							
363	WESTERN HYDRO AIR		08524509	30-Oct-85	104,000.00			192	30-Aug-85 to 30 AUG		31,134.55	2	0.00	31,134.55	1	855014	328,865.45		0.00				
364	WESTERN HYDRO AIR		08524509	30-Oct-85				193	02-Sep-85		2,813.19	1	2,813.19	0.00		326,052.26			0.00				
365	WESTERN HYDRO AIR		08524509	30-Oct-85				196	15-Sep-85 to 15 SEP		3												

Q9-1-2-85

**GEOLOGY RCE STATUS**  
AS OF 29-Nov-85

AFC K.O.E. #	APPROVED \$	SPENT + TO COME \$	VAR	TO COME \$ (INCLUDED)
85.5.009	\$1,330,000	\$1,310,674.79	\$19,325.21	32,490.00 CANMET =32.49
85.5.014	\$420,000	\$409,958.06	\$10,041.94	21,000.00 WHA = 10.0
85.8.021	\$120,000	\$126,244.46	(\$6,244.46)	
85.9.001	\$700,000	\$236,978.88	\$463,021.12	1,500.00 THE ORTHOSHOP
TOTAL	\$425,570.000	\$2,083,856.19	\$486,143.81	

GEOLOGY CAP BUDGET  
AS OF 29-Nov-85

APPROVED P.C.E. #	SPENT + TO COME \$	VAK	TO COME \$ (INCLUDED)
85.5.009	\$1,210,208 \$1,310,674.79 (\$100,466.79)		32,490.00 CANMET =32.49
85.5.014	\$420,000 \$409,953.06 \$10,041.94		21,000.00 WHA = 10.0
85.8.021	\$120,000 \$126,244.46 (\$6,244.46)		
85.9.001	\$0- (\$236,978.88) (\$236,978.88)		1,500.00 THE ORTHOSHOP
TOTAL	\$1,750,208 \$2,083,856.19 (\$333,648.19)		