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CSR COAL DIVISION

FOR

AAR LIMITED

EXPLORATION LICENCE 20/80 - LAUNCESTON

EXPLORATION PROGRESS REPORT

FOR THREE MONTH PERIOD

ENDED 22 NOVEMBER 1982

P.R. Ellis

Prepared by:

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1. SUMMARY

Three brown coal deposits and one brown coal prospect have been delineated north and northeast of Westbury. They are the Loatta, Pipers Lagoons, and Selbourne Deposits and the Hillcrest Prospect.

Exploratory drilling to date has identified 118 million tonnes (insitu) of indicated Class I and Class II brown coal reserves and small inferred reserves. The coal occurs in up to 9 brown coal seams ranging in thickness from 1.5 to 8.5 metres and at depths generally less than 60 metres. Substantial reserves of brown coal occur at depths from 10 to 30 metres. The reserves of the three deposits are shown in Table 1.

Analyses of core samples show the coal to be a moderately high ash, low sulphur brown coal. The average in situ quality of the brown coal reserves of the Loatta, Pipers Lagoons and Selbourne Deposits is presented in Table 1.

No exploratory drilling was conducted during the three month period. The three brown coal deposits and one brown coal prospect have been further evaluated. The coal and non coal resource potential of EL20/80 was assessed and reported.

TABLE 1EL 20/80 LAUNCESTONWEIGHTED AVERAGE INSITU COAL RESERVES

(Indicated Class I & II)

AND COAL QUALITY OF INDIVIDUAL DEPOSITS.

DEPOSIT	RELATIVE DENSITY gm/cc	TOTAL MOISTURE %	VOLATILE MATTER %	ASH %	FIXED CARBON %	SPECIFIC ENERGY MJ/kg	TOTAL SULPHUR %	INDICATED RESERVES Tonne
Loatta	1.32	48.1	18.0	21.8	12.1	7.6	0.17	56
Pipers Lagoons	1.33	46.3	18.0	21.9	13.8	7.6	0.11	43
Selbourne	1.33	46.4	18.0	23.7	11.9	7.2	0.18	19
TOTAL/AVERAGE	1.33	47.2	18.0	22.1	12.7	7.5	0.13	118

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2. INTRODUCTION

2.1 Scope of Report

This report documents the evaluation of the brown coal deposits within EL20/80 Launceston by CSR Limited on behalf of AAR Limited during the three month period ended 22 November 1982.

2.2 Tenement Details

EL20/80 Launceston, covering an area of 2,339km², was granted to AAR Limited on 19 September 1980 for a term of one year.

An extension for a 6 month period was granted on 22 August, 1981. A further application for a twelve month extension of EL20/80 Launceston was made, and the EL was granted for the period 22 February, 1982 to 22 February, 1983.

2.3 Location and Access

EL20/80 Launceston extends from Campbell Town in the south-east, west to Deloraine, and north to Launceston, (Figure 1). It is located on the Meander, South Esk, and Tamar 1:100,000 Topographic Map Series.

The Bass and Midlands Highways traverse the area from east to west and north-west to south-east, respectively. The Western Line Railway also crosses the area in an east-west direction, through Perth, Longford and Westbury. The Southern Line Railway parallels the Midlands Highway between Powranna and Campbell Town, and junctions with the Western Line Railway at Western Junction. (Figure 2).

Access in the northern sections of the EL (Westbury, Rosevale, Selbourne) is generally via sealed shire roads and well maintained farm tracks which enable good dry weather access. However, access can only be gained to some sites in the summer months as pastures are extremely boggy when wet. January through March is the ideal time for an exploration programme in the north of the EL.

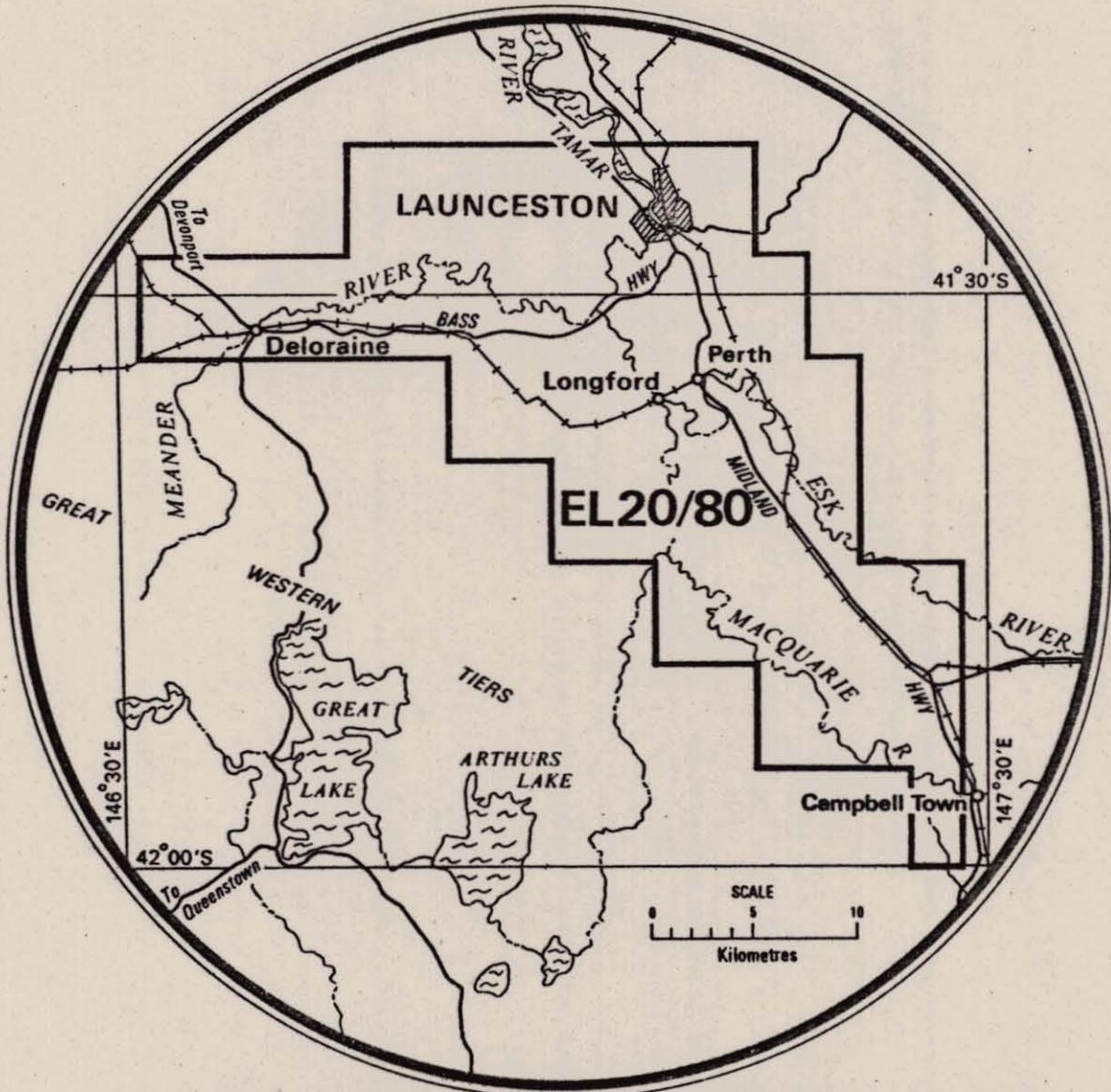
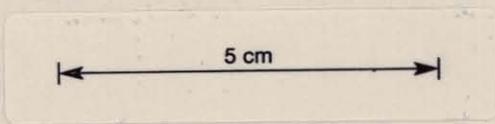
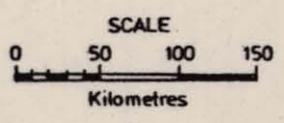
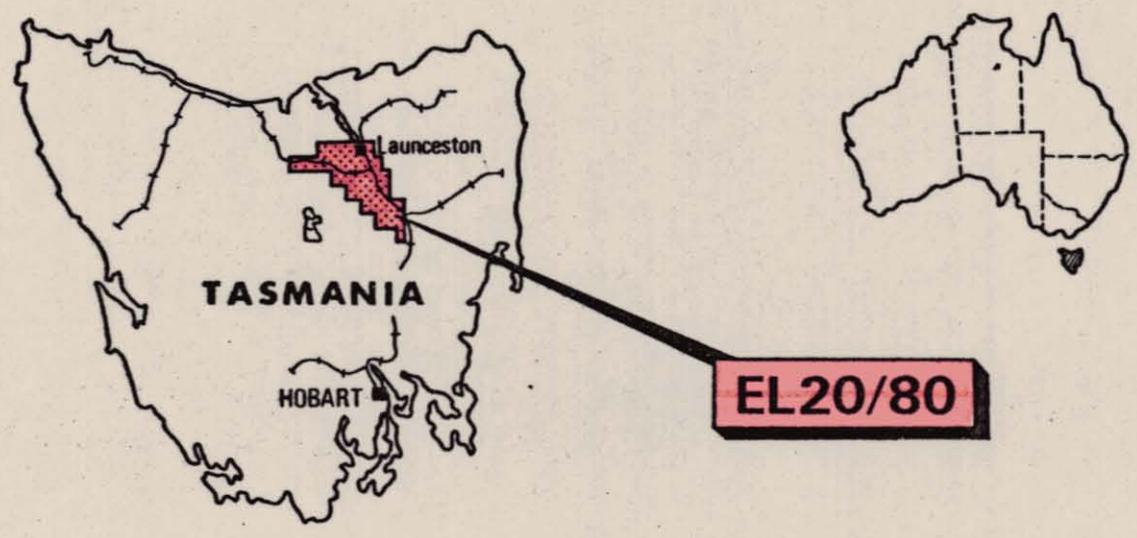
Access in the southern sections of the EL (Conara, Campbell Town), where farms are larger, is predominantly through pastures, once off the sealed shire roads. The southern areas of the EL are drier than the north, and exploration is possible from January through to May.

2.4 Climate, Physiography and Land Use

The climate of the area is temperate. The annual average rainfall throughout the area ranges from approximately 500 to 1,000mm, and generally falls during the winter months, (Mathews, 1974).

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**EL 20/80 LAUNCESTON
TASMANIA**

The Launceston Basin is flat to gently undulating. It is surrounded on all sides by much higher terrain, notably the Great Western Tiers to the west and Ben Lomond to the east.

The major land use of EL20/80 Launceston is farming, predominantly sheep and cattle grazing. The Carrick-Westbury area is notable for its large number of horse, cattle and sheep studs, and intense cultivation of peas, beans, opium poppy, and cereal crops.

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3. GEOLOGY OF EL20/80 LAUNCESTON

3.1 Introduction

The Launceston Basin, contains the largest continuous area of unconsolidated Tertiary sediments in Tasmania. The sediments are primarily fluvial clays, sand, silt and minor brown coal, which have been unconformably deposited on Permian and Triassic sediments and Jurassic dolerites..

Three brown coal deposits and one brown coal prospect * occur in discrete sub-basins of the Launceston Basin north and northeast of Westbury. They are known as the Loatta, Pipers Lagoons and Selbourne Deposits and the Hillcrest Prospect, (Figures 2 and 3). Their outlines are defined by 1.5m coal seam isopachs.

(*the term prospect refers to an area containing inferred and potential coal tonnages which has potential for delineation of coal reserves with further exploration drilling.)

3.2 Regional Stratigraphy and Stratigraphy of the Launceston Basin.

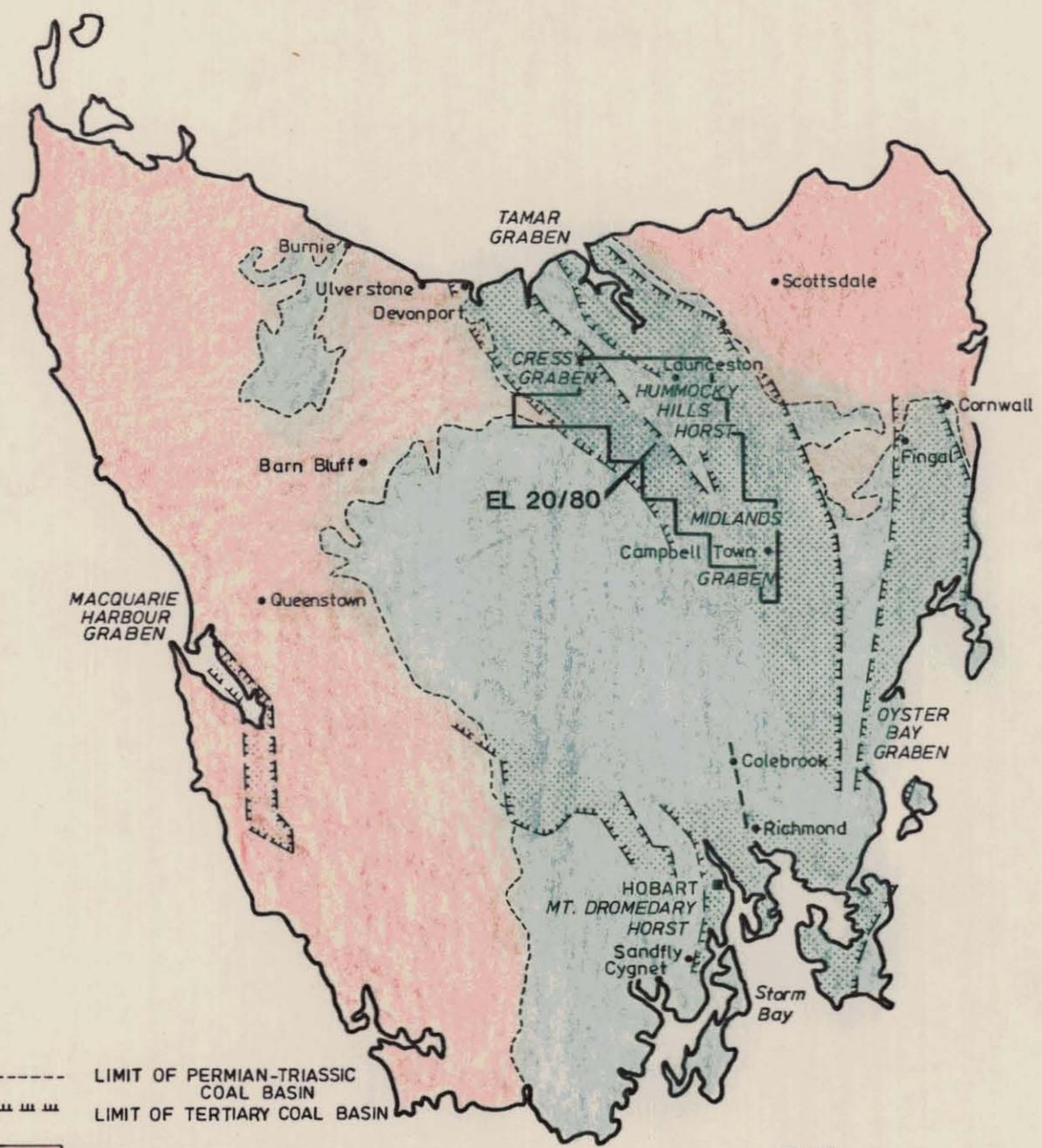
EL20/80 lies within the Permo-Triassic Parameener Supergroup Coal Basin and the Tertiary Launceston Basin (Figure 4). The Permo-Triassic Coal Basin unconformably overlies Precambrian, Cambrian, Ordovician, and Silurian strata. The Tertiary, Launceston Basin unconformably overlies the Permo-Triassic Coal Basin and the intruded Jurassic Dolerite. The regional stratigraphy of EL 20/80 is shown in Figure 5.

Two grabens known as the Cressy and Tamar Troughs are the two main structural elements of the north west - south east trending Launceston Basin were produced by pre-Tertiary and Tertiary faulting. The grabens are separated by a discontinuous central horst which is expressed in the Hummocky Hills, and hills to the north of Perth extending northwesterly to Carrick. The Cressy Trough extends from Campbell Town through Cressy to Westbury, and the Tamar Trough extends from the present mouth of the Tamar River, through Launceston to Campbell Town.

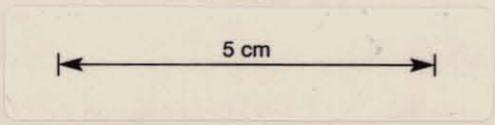
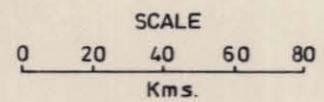
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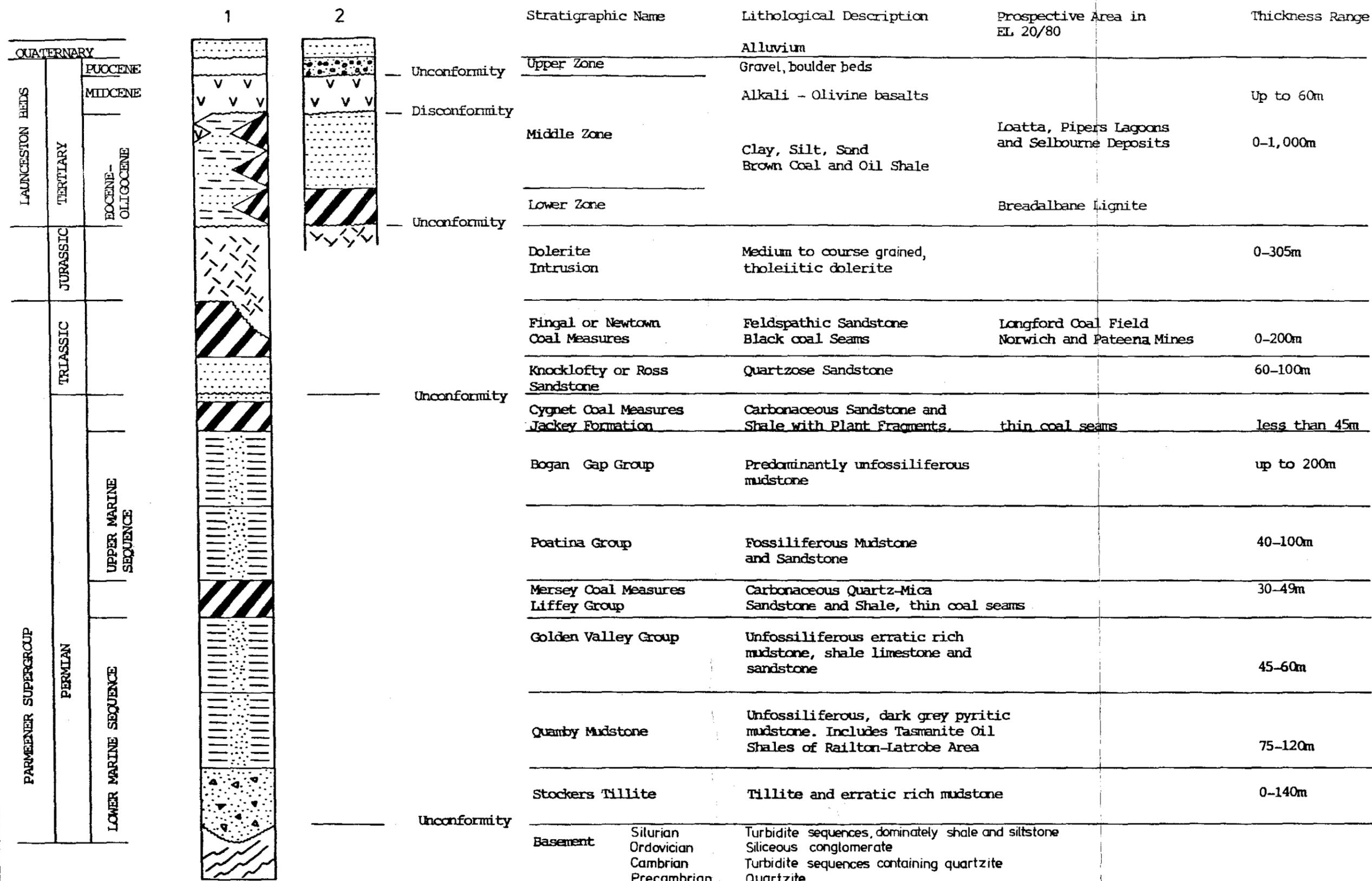
BASS STRAIT



- LIMIT OF PERMIAN-TRIASSIC COAL BASIN
- u u u LIMIT OF TERTIARY COAL BASIN
- PRE-PERMIAN BASEMENT
- PERMIAN-TRIASSIC BASIN
- TERTIARY COAL BASIN

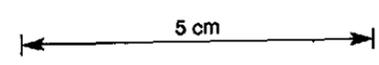


CSR Limited Coal Division EXPLORATION AND EVALUATION GROUP CSR									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">DRAWING / DATE</td> <td style="padding: 2px;">SCALE</td> </tr> <tr> <td style="padding: 2px;">DRAWN C. J. Dec. '82</td> <td style="padding: 2px;">AS SHOWN</td> </tr> <tr> <td style="padding: 2px;">CHECKED</td> <td style="padding: 2px;">FIGURE 4</td> </tr> <tr> <td style="padding: 2px;">REVISED</td> <td style="padding: 2px;">DRAWING No 70020 - 92</td> </tr> </table>	DRAWING / DATE	SCALE	DRAWN C. J. Dec. '82	AS SHOWN	CHECKED	FIGURE 4	REVISED	DRAWING No 70020 - 92	<p>COAL BASINS OF TASMANIA</p>
DRAWING / DATE	SCALE								
DRAWN C. J. Dec. '82	AS SHOWN								
CHECKED	FIGURE 4								
REVISED	DRAWING No 70020 - 92								



Note: Column 2 after Johnson 1873 only applies to Stratigraphy of Launceston Area

Compiled from information contained in Mathews (1974).



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSIR	
DRAWING	DATE	STRATIGRAPHY OF THE PARMEENER SUPERGROUP AND LAUNCESTON BASIN IN EL 20/80		SCALE	
DRAWN	C. J.			Nov. '82	FIGURE 5
CHECKED					DRAWING No 70020 - 90
REVISED					

Predominately non-marine Tertiary Launceston Beds, (Johnson, 1888) outcrop in approximately three quarters of the licence area. Pre-Tertiary strata outcrop along the margins of the Launceston Basin and the discontinuous central Hummocky Hills Horst.

A basin wide correlation of Tertiary strata, in particular brown coal horizons, has not been published. A formal intrabasinal stratigraphic sequence has not been established for the Launceston Basin. The term Launceston Beds, as used by Johnson (1888), to describe the Tertiary strata of the Launceston Basin, is adopted.

Further discussions of the geology of EL20/80 Launceston was outlined in previous exploration reports (Osborne, 1981; Ellis, 1982a, 1982b, 1982c).

3.3 Geology of the Loatta, Pipers Lagoons and Selbourne Coal Deposits

Up to four major brown coal horizons, referred to as A,B,C and D have been intersected in the Loatta, Pipers Lagoons and Selbourne Deposits. Up to twelve individual seams have been intersected.

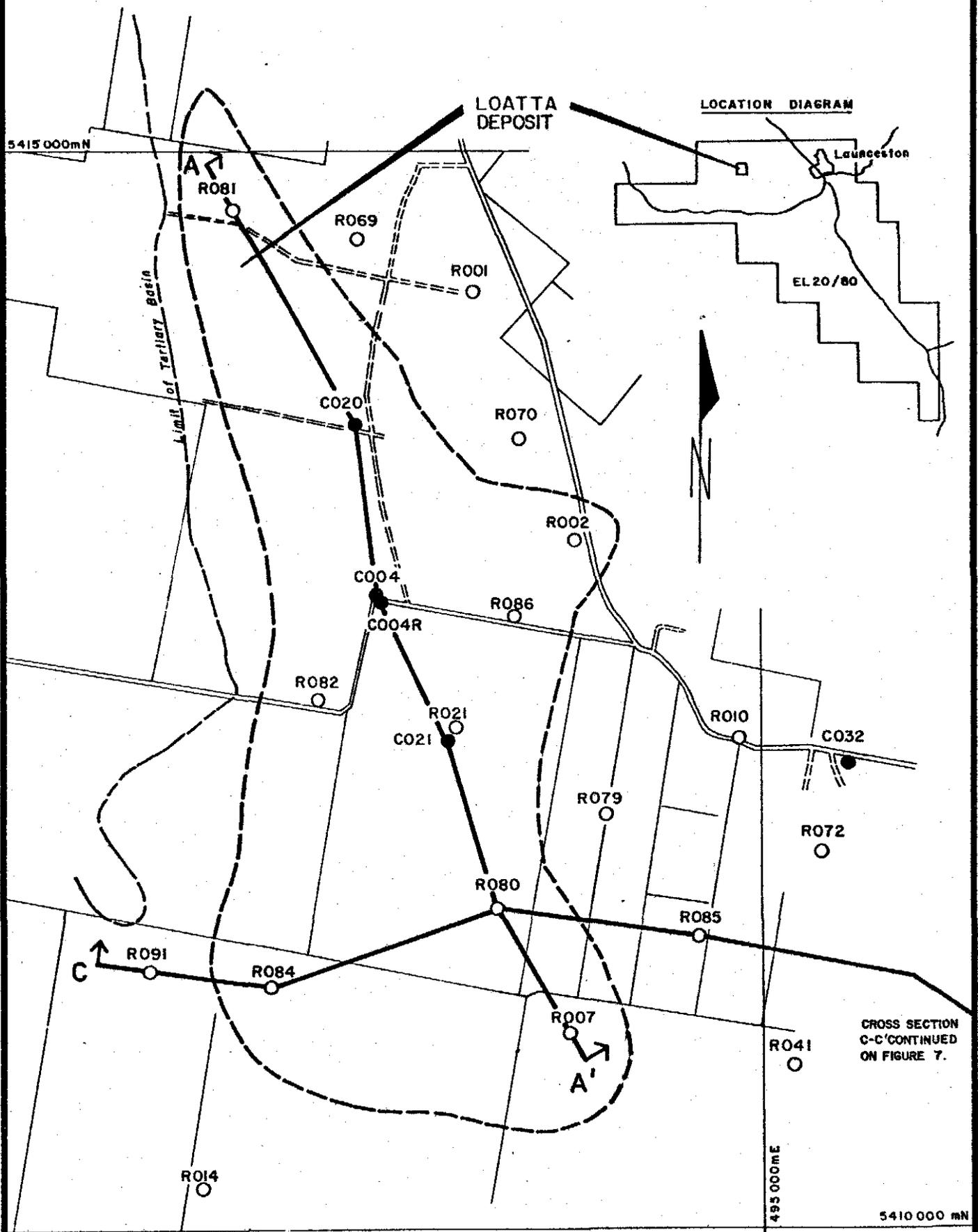
The three stratigraphically highest coal horizons, A,B, and C comprise up to nine coal seams and have been used for reserve calculations. The structure and stratigraphy of coal seams in the three deposits is shown in simplified cross sections, (Figures 6 to 12 inclusive). Coal seam isopachs, (Figures 13 to 36 inclusive) and nomenclature are included as Appendices 1 and 2 respectively.

Brown coal seams have been correlated using characteristic downhole geophysical log signatures and examination of cross sections. Positive coal seam correlations can be made in the central areas of the coal deposits. Tentative coal seam correlations have been made near the margins of the Loatta and Selbourne Deposits.

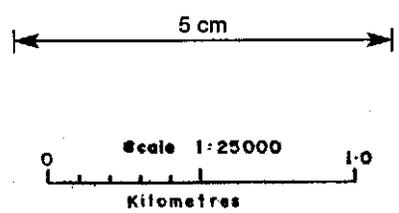
The coal seams are generally flat lying, range in thickness from 1.5 to 8.5 metres and occur at depths from 4 and 75 metres. Most coal seams occur at depths ranging from 10 to 30 metres. Seams generally occur at depths greater than 60 metres close to the deposit margins, particularly in areas of uncertain seam correlations.

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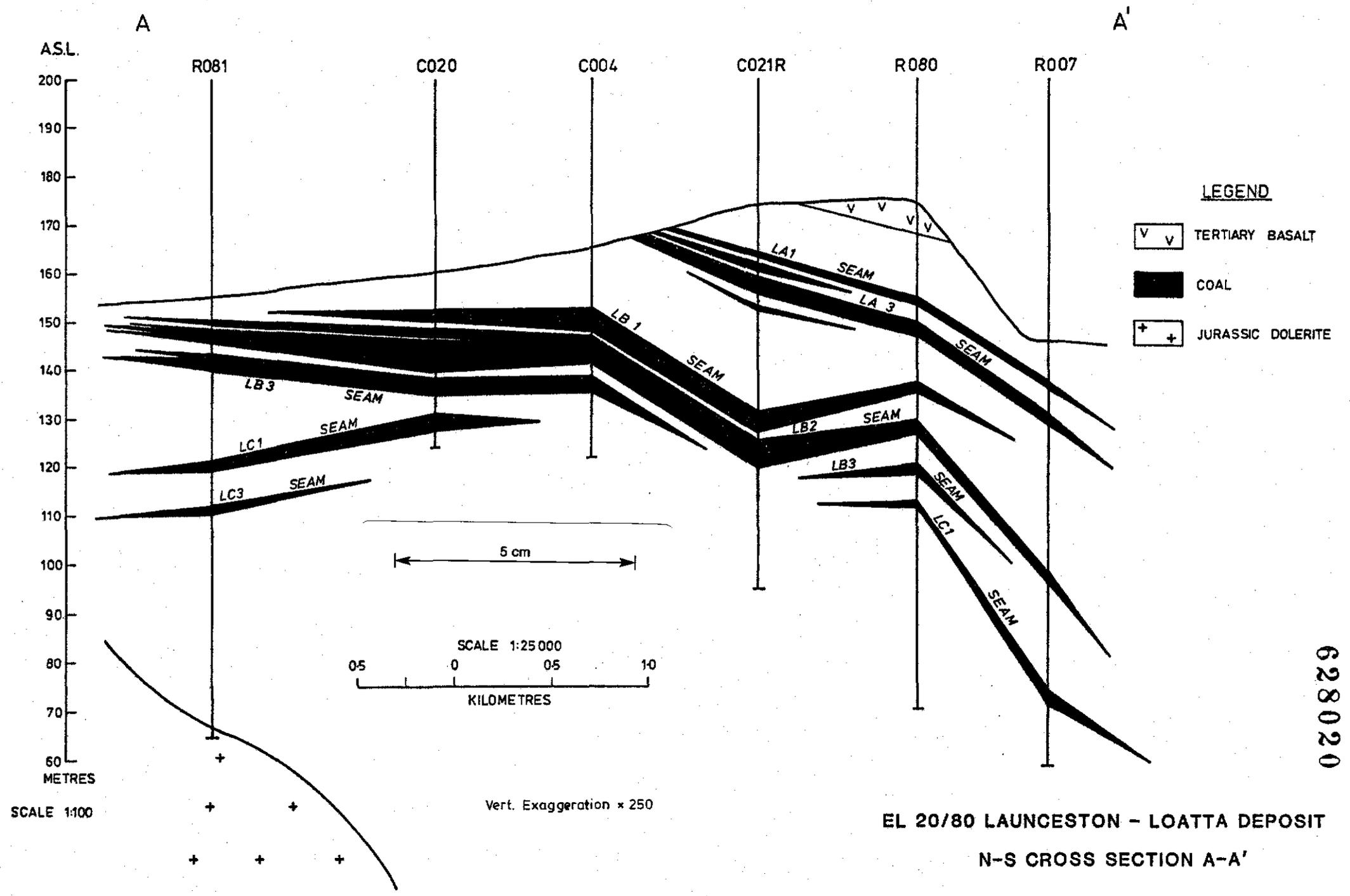
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CROSS SECTION C-C' CONTINUED ON FIGURE 7.



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP CSR	
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EL 20/80 LAUNCESTON LOATTA		LOCATION OF SECTIONS A-A' & C-C'	



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5 cm

495 000 ME

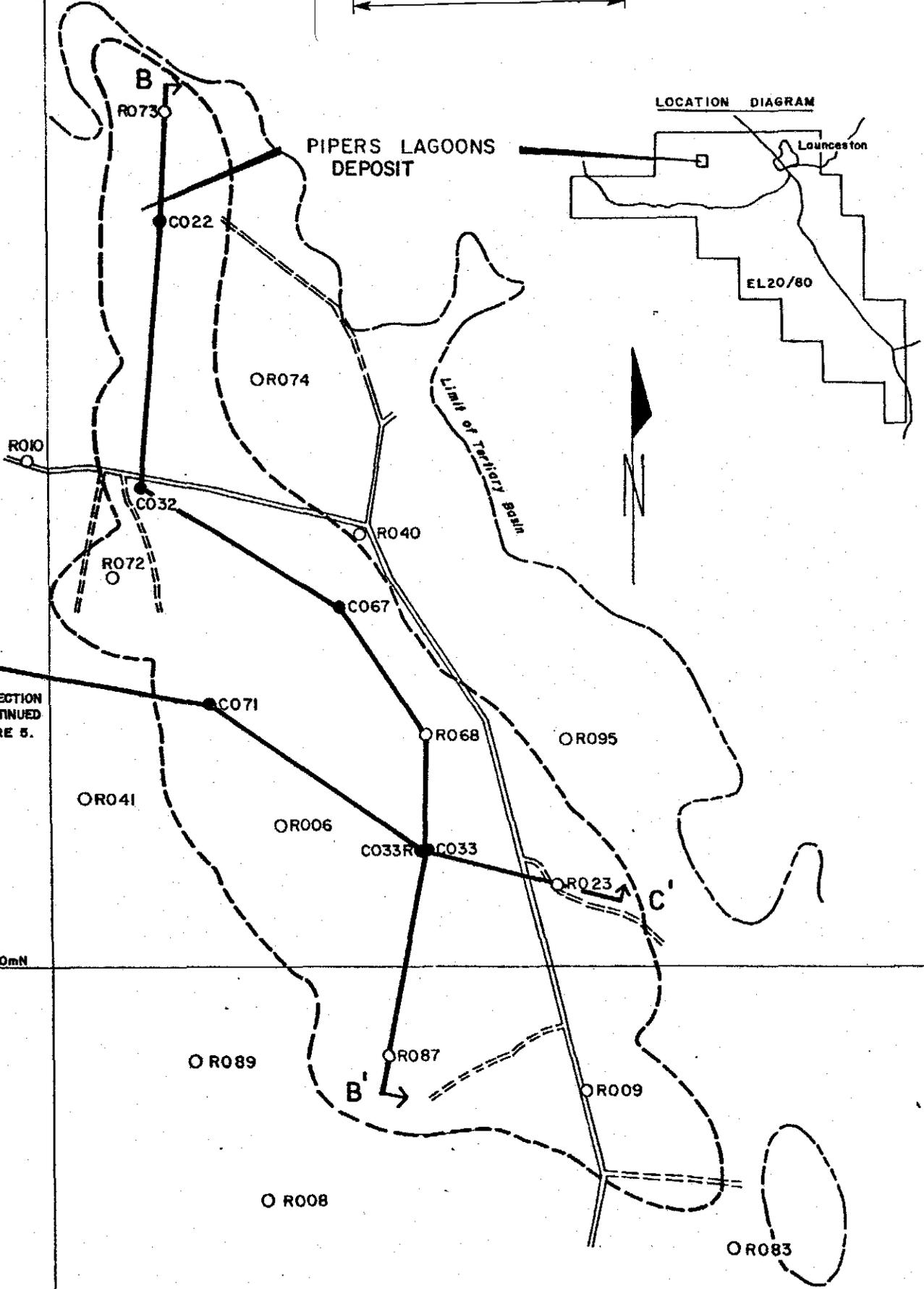
LOCATION DIAGRAM

Launceston

PIPERS LAGOONS DEPOSIT

EL20/80

Limit of Tertiary Basin



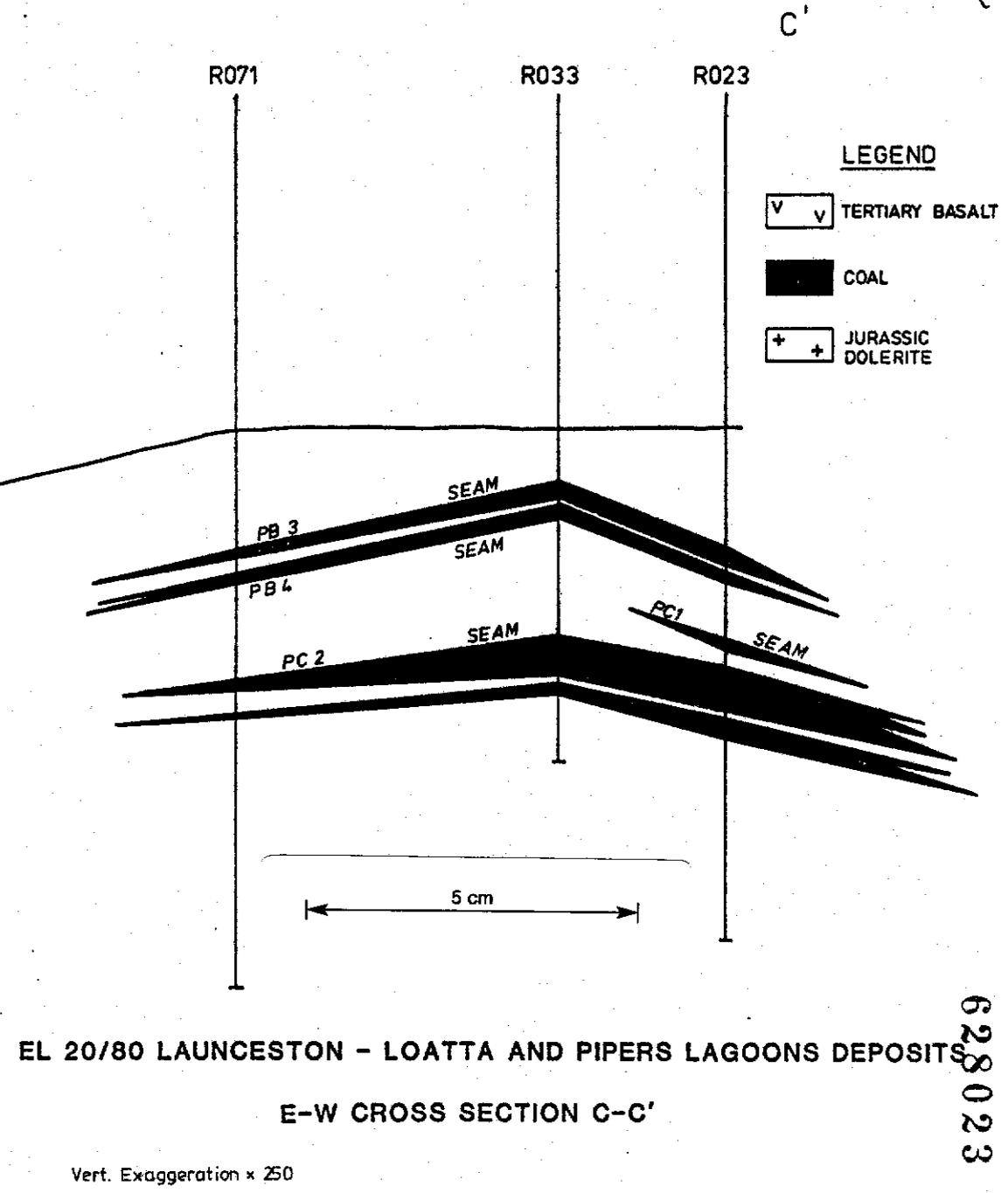
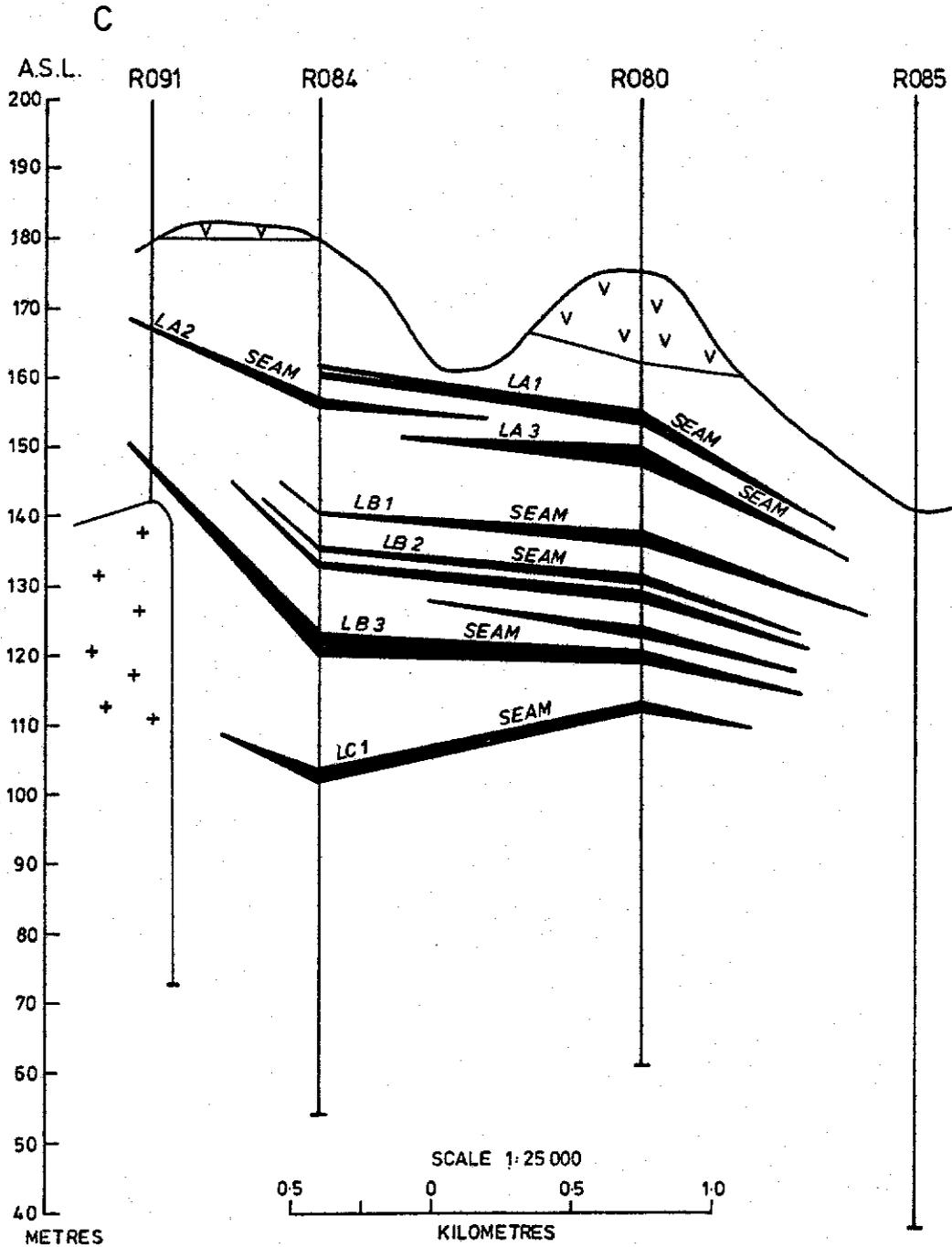
CROSS SECTION C-C' CONTINUED ON FIGURE 5.

5 410 000 mN

Scale 1:25000
0 1-0
Kilometres

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSIR
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE
DRAWN B.H. Aug '82		PIPERS LAGOONS		1 : 25 000
CHECKED		LOCATION OF SECTIONS B-B' & C-C'		FIGURE 8
REVISED				DRAWING No 70020 - 65

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EL 20/80 LAUNCESTON - LOATTA AND PIPERS LAGOONS DEPOSITS

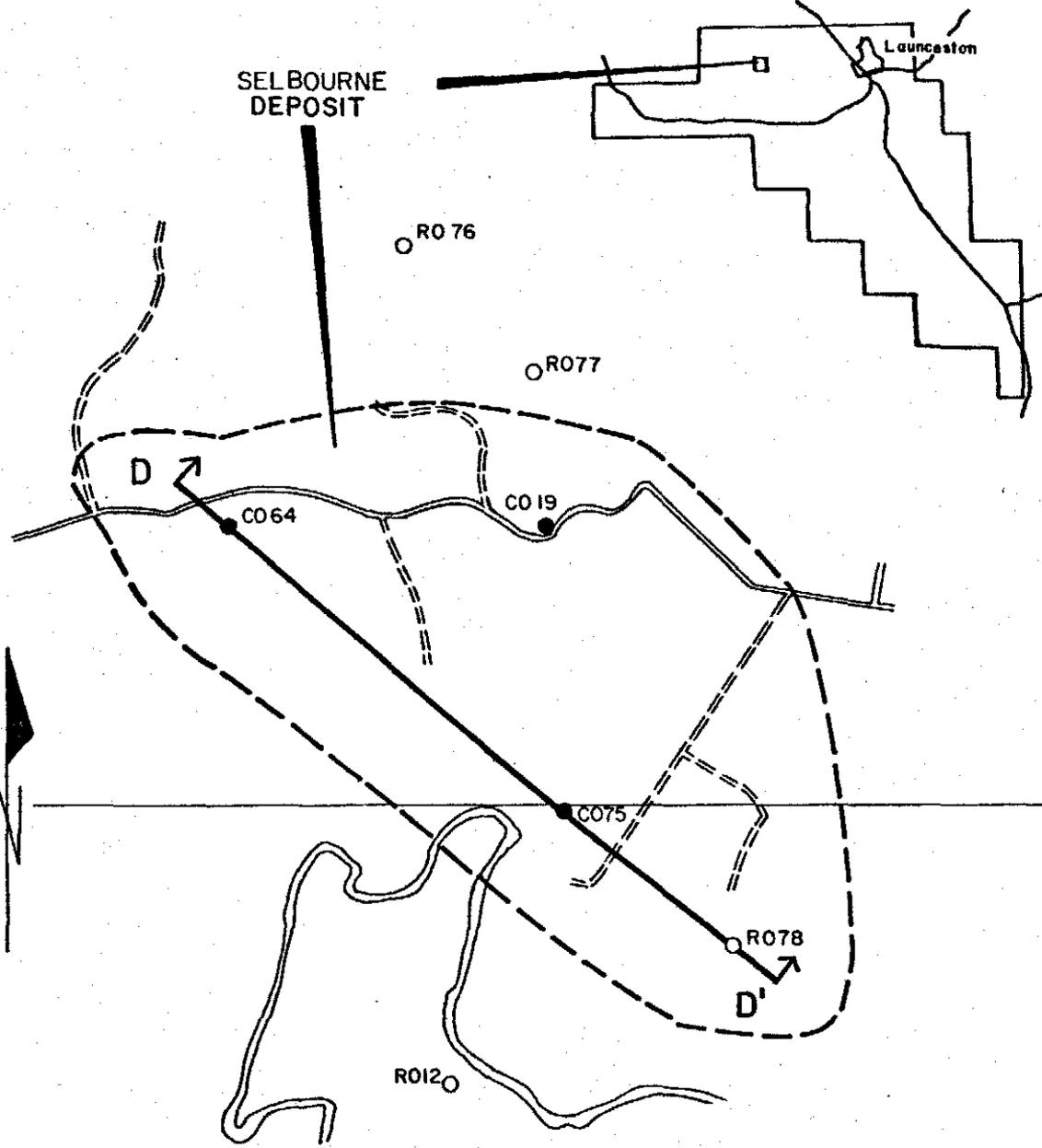
E-W CROSS SECTION C-C'

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LOCATION DIAGRAM



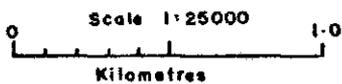
5410900 mN

Legend

- R068 Rotary Chip Hole
- C068 Cored Hole
- R068 Coal Thickness
2-16
- R069 Horizon Intersected
- No Coal
- R070 Seams Not Intersected
x

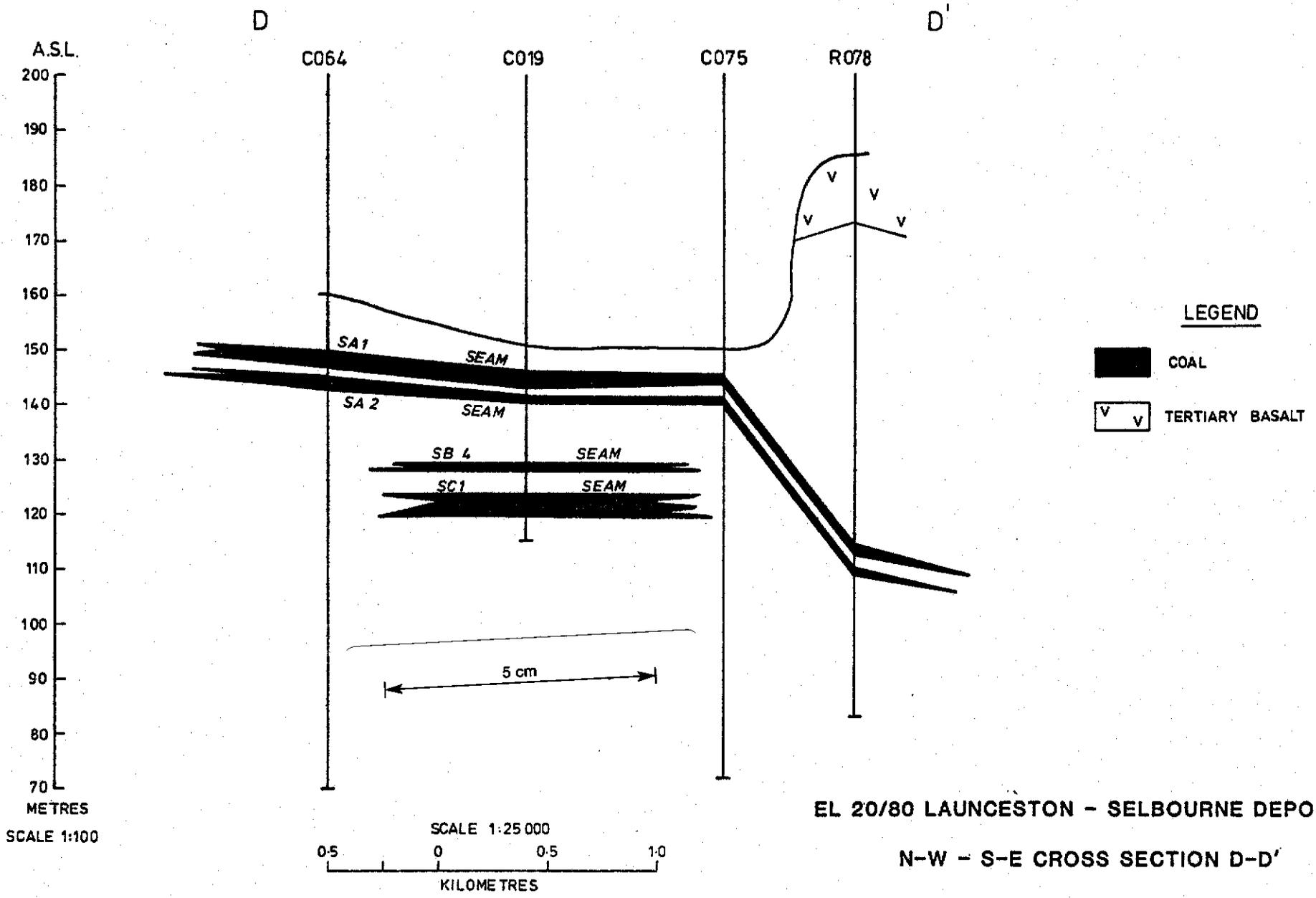
5 cm

490,000 mE



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR
DRAWING / DATE		SCALE		1 : 25 000
DRAWN	Sept '82	FIGURE 11		
CHECKED		DRAWING No		70020 - 66
REVISED		LOCATION OF SECTION D-D'		

024



EL 20/80 LAUNCESTON - SELBOURNE DEPOSIT
 N-W - S-E CROSS SECTION D-D'

628025

025

Cumulative overburden ratios of the coal seams range from 2.8 to 8.3, and are summarised in Table 2.

Incremental overburdens of the B0 and C0 seams range between 1.9 and 8.3, and are presented in Table 3. Overburden and interburden volumes are included as tables 4 and 5, (Appendix 3). Overburden and interburden isopachs of the three coal deposits are included as Figures 37 to 45 inclusive (Appendix 4).

Structure contours of the brown coal seams are presented in Figures 46 to 51, (Appendix 5).

TABLE 2

EL 20/80 LAUNCESTON

Cumulative Overburden Ratios of the Loatta, Pipers Lagoons and Selbourne Deposits.

Cumulative Overburden Ratio (M ³ /tonne)			
Seam	Loatta Deposit	Pipers Lagoons Deposit	Selbourne Deposit
A0	5.7	-	8.3
B0	2.8	5.1	-
C0	3.0	5.0	-

TABLE 3

EL 20/80 Launceston

Incremental Overburden Ratios of the Loatta, Pipers Lagoons and Selbourne Deposits.

Incremental Overburden Ration (m ³ /tonne)			
Seam	Loatta Deposit	Pipers Lagoons Deposit	Selbourne Deposit
B0-A0	1.9	5.1	8.3
C0-B0	4.1	5.0	-

026

3.4 Geology of the Hillcrest Prospect

The Hillcrest Prospect is located southwest of the Loatta Deposit, and adjoins the Selbourne Deposit along its northern and eastern boundaries. Coal seams thicker than 1.5 metres have been intersected at depths ranging between 15 and 42 metres. The coal seams are possibly stratigraphic equivalents of the LA0 and LB0 seams of the Loatta Deposit.

The Hillcrest Prospect was reported to contain inferred reserves, in Ellis (1982c). The area of the Hillcrest Prospect has been increased to include potential coal reserves (Figure 3).

4. EXPLORATION AND GEOLOGICAL EVALUATION4.1 Previous Exploration

Previous exploration for oil shale by AAR Limited and brown coal by CSR Limited within EL20/80 Launceston is discussed in Osborne (1981) and Ellis (1982 a, b and c) respectively.

During 1981, AAR Limited conducted an exploration programme to investigate the occurrence of oil shale, primarily in the Carrick-Longford area. Their investigations showed that thin oil shales are present in the Tertiary sequence in the Carrick area and reach a maximum thickness of 10 metres, yielding 49 litres/tonne at zero moisture. AAR Limited intersected ligneous facies including brown coal of significant thicknesses in the Rosevale-Westwood area.

Two follow up exploration programmes have been conducted by CSR Limited. One in conjunction with AAR Limited in late 1981 to delineate the extent of brown coal and oil shale occurrences in the Rosevale-Westwood and Carrick-Longford areas respectively. The second programme, in early 1982, provided further information on deposit boundaries and seam correlations within the prospects outlined in the 1981 programme.

A summary of Exploration statistics is presented in Table 7.

TABLE 7

EL20/80SUMMARY OF EXPLORATION STATISTICS

EXPLORATION PROGRAMME	NUMBER OF HOLES				METRES METRES CHIPPED CORED	
	TOTAL HOLES	DRILLED ROTARY CHIP	CORED	WIRELINE LOGGED		
March-April 1981	25	21	4	22	1,568	54.5
October-December 1981	42	35	7	41	2,373.5	218.8
March-April 1982	39	34	5	37	2,558	115.49
TOTALS	106	90	16	100	6,499.5	388.79

4.2 Future Exploration

An exploration drilling programme is proposed for 1983. Work will be directed at delineating the extent of seams within all three deposits and the Hillcrest Prospect, and producing core samples for further detail testing.

Exploration will be undertaken in other areas of the EL to identify further shallow occurrences of Tertiary brown coal and Parmeener Super Group black coal.

4.3 Evaluation During the Three Month Period

4.3.1 Summary

During the three month period the results of the October-December 1981 and March-April 1982 exploration programmes have been assessed. No exploratory drilling was undertaken during the quarter. The coal, and non coal resource potential of EL20/80 has been assessed, and reported. These reports will be included with the next six monthly exploration report.

4.3.2 CSR Coal Database System

All drillhole data has been encoded onto the CSR Coal Database System. Lithological logs of cored holes have been merged with logs of rotary chip holes. The geological database has been updated, so that it can be used for computer modelling of the three coal deposits.

During the three month period, improvements have been made to computer software so that improved English and computer generated graphic logs can be produced.

Detailed English and computer generated graphic logs of drillholes from the 1981 and 1982 exploration programmes were reported as Appendices 1 and 2 respectively to Ellis, (1982c). These are now included with this report as Appendices 6 and 7 respectively.

Analytical data from the 1981 drilling programme has been encoded onto the Database system, while analytical data from the 1982 drilling programme will be encoded shortly. Computer generated analytical data from the 1981 drilling programme was reported as Appendix 3 to Ellis (1982c), and is now included with this report as Appendix 8. Computer generated analytical data from the 1982 drilling programme will be forwarded when available.

4.3.3 Coal Sampling and Analysis

Brown coal samples were taken from 100mm core cut during the October-December 1981 and March-April 1982 exploration programmes.

During the 1981 exploration programme selected representative samples were taken for moisture analysis and sealed in airtight PVC casing. All other samples from the 1981 exploration programme were sealed in PVC bags, and analysed for full proximate, total sulphur, relative density, and specific energy.

All samples from the 1982 exploration programme were sealed in PVC bags and analysed for total moisture and ash. Selected working section composites were analysed for full proximate, total sulphur, relative density, and specific energy.

Two weighted composite samples from the LB3 seam of cored hole C020 were prepared. One sample will be analysed by the SECY Herman Research Laboratory as part of the Standards Association of Australia's programme to test the reliability and accuracy of analytical methods used on brown coals and char. The second sample was analysed by the CSR Materials Laboratory in Brisbane for the following:- Ultimate Analysis, Ash Analysis, Sodium, Phosphorus, Chlorine and Ash Fusion Temperatures. Coal analysis results from the 1982 exploration programme have not been encoded onto the CSR Coal Database, and will be reported when available.

4.4 Future Evaluation

4.4.1 Coal Analysis

Further coal analysis will involve composite samples of proposed mining sections to be tested for:-

- Proximate Analysis
- Specific Energy
- Total Sulphur
- Sodium
- Chlorine
- Phosphorus
- Ultimate Analysis
- Ash Analysis
- Ash Fusion Temperatures

4.4.2 Hydrogeology

It was reported in Ellis (1982b, Appendix 8) that thirteen piezometers were installed at seven sites in the Loatta, Pipers Lagoons and Selbourne Deposits. The Tasmanian Department of Mines, Hydrology Section has monitored the sites piezometers, and six measurements have been made, at approximately one month. The piezometric measurements are included as Table 18, (Appendix 11).

The results of the piezometric measurements should be viewed in the light that Tasmania experienced a very dry year.

4.4.3 Mining Studies

A preliminary mining study will commence shortly. The study will investigate the following:-

- . The effects that changing ash cut off points will have on total reserves, (refer to Section 5.2).
- . The possibility of an opencut mine based on the brown coal resources in the three deposits.
- . The environmental impact of an open cut mine and powerstation.
- . The suitability of the brown coal resource for combustion in a power station.

The results of this study will be reported when available.

5. COAL RESOURCES

5.1 Brown Coal Reserves

118 Mt insitu Class I and II Indicated Reserves and very small inferred reserves have been defined in the Loatta, Pipers Lagoons and Selbourne Deposits, as previously reported (Ellis 1982). Very small inferred and potential reserves have been outlined in the Hillcrest Prospect. Coal reserves are tabulated in Table 8.

Reserve figures have been calculated using Geological Survey of Queensland Guidelines, after Mengel, 1977, and Australian Standard 2519-1982.

TABLE 8

EL20/80 COAL RESERVES

DEPOSIT OR PROSPECT	INSITU RESERVES - million tonnes			
	INDICATED			INFERRED POTENTIAL RESOURCES
	CLASS I	CLASS II	TOTAL	
Loatta Deposit	33	23	56	Very Small
Pipers Lagoons Deposit	23	20	43	---
Selbourne Deposit	14	5	19	Very Small
Hillcrest Prospect	-	-	-	Very Small Very Small
Totals	70	48	118	

N.B. Very small inferred reserves are for those less than 20mt.

Seam isopachs are presented as figures 13 to 36 inclusive, Appendix 1, while detailed reserve calculations are included as Tables 9 to 11, (Appendix 9).

Reserves have been calculated for seams with a minimum 1.5m thickness. Stone bands greater than 0.5m and coal seams containing greater than 50% ash on a dry basis, have been excluded from calculations.

An RD of 1.2 has been used for brown coal where no laboratory determinations are available. Where analyses are available the weighted average RD for each specific seam was used in calculating reserves.

In areas of the Loatta and Selbourne Deposits where seam correlations are uncertain, Inferred Reserves have been calculated. Reserves of the Hillcrest Prospect are classified as Inferred and Potential because the spacing between drillholes exceeds 0.5km to 1km. A drillhole spacing between 0.5km to 1km is considered to be the upper confidence level of geological observations for the style of brown coal deposit found in EL20/80.

Further exploration, as outlined in Section 4.2, will be directed at identifying further reserves of brown and black coal within EL20/80.

5.2 Brown Coal Quality

The brown coal of the Launceston Basin is a typical brown coal with a high insitu moisture content. It has a low specific energy, a moderately high ash and a low sulphur content.

The weighted average insitu coal quality of the Loatta, Pipers Lagoons and Selbourne Deposits is summarised in Table 1. The weighted average insitu quality of individual seams is presented in Table 12. Further weighted average quality of individual seams is presented on Tables 13 to 16, (Appendix 10).

033

628034

14.

TABLE 12
EL20/80 LAUNCESTON
WEIGHTED AVERAGE INSITU QUALITY
OF INDIVIDUAL SEAMS

SEAM	RELATIVE DENSITY gm/cc	TOTAL MOISTURE %	VOLATILE MATTER %	ASH %	FIXED CARBON %	SPECIFIC ENERGY MJ/kg	TOTAL SULPHUR %	INSITU RESERVES TONNES x 10 ⁶
LA1	1.30	48.70	18.26	21.44	11.60	7.40	0.11	2.56
LA2	1.30	46.20	22.0	16.22	15.58	9.44	0.16	2.35
LA3	1.27	51.35	17.85	18.36	12.44	7.85	3.12	6.80
LB1	1.33	45.55	19.67	21.72	13.06	8.71	0.20	8.19
LB2	1.32	48.87	16.88	23.31	10.94	6.84	0.17	18.07
LB3	1.30	48.59	18.57	19.82	13.02	7.97	0.17	10.19
LC1	1.35	45.65	17.52	25.98	10.85	6.95	0.18	6.83
PA0	1.33	48.13	15.62	25.62	10.83	6.30	0.17	2.48
PB2	1.33	46.25	18.63	23.77	11.25	7.47	0.15	2.75
PB3	1.30	47.49	19.19	20.9	12.42	8.20	0.12	8.91
PB4	1.32	46.26	17.04	18.44	18.26	7.38	0.09	8.39
PC2	1.33	46.24	14.67	21.40	17.69	0.07	5.77	
PC3	1.33	45.82	18.59	22.45	13.14	8.12	0.10	5.24
PC4	1.36	44.07	20.15	24.91	10.87	8.05	0.13	7.66
SA1	1.31	48.20	17.53	22.50	11.77	7.06	0.19	9.57
SA2	1.39	42.24	18.58	27.46	11.72	7.23	0.19	4.18
SB4	1.33	47.4	17.35	24.0	11.25	7.07	0.16	2.77
SC1	1.32	45.5	19.62	21.02	13.86	8.25	0.15	2.18

The insitu brown coal quality of the Launceston Basin, Latrobe Valley, and a Murray Basin deposit is compared in Table 17.

TABLE 17

INSITU QUALITY OF SOME TERTIARY BROWN COALS

BROWN COAL AREA/DEPOSIT	TOTAL MOISTURE %	VOLATILE MATTER %	ASH %	SPECIFIC ENERGY MJ/kg	TOTAL SULPHUR %
Launceston Basin	47	18	22.1	7.5	0.15
Yallourn (Latrobe Valley)	60 - 70	16 - 19	0.5-1.5	6 - 9	0.2 - 0.5
Sedan (Murray Basin)	59	18	7.8	9.1	2.2

Launceston Basin coal has a lower total moisture and sulphur content, but a significantly higher ash content than the Yallourn and Sedan Deposits. The specific energy of Launceston Basin coal is lower than Sedan coal, but similar to Yallourn coal.

Reserves have been calculated from coal seams containing up to 50% dry basis ash. By calculating reserves for seams containing up to 40% dry basis ash the reported average coal quality will improve. It is estimated that 90Mt of coal is present within the three deposits with a average ash of 20% and a specific energy of 8MJ/kg (in situ). However, the proposed mining study and future exploration will indicate the effect that quality cut-offs will have on total mineable reserves.

035

6. REFERENCES

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P. Ellis, Geologist, Coal Exploration and Evaluation Group, CSR Energy Division.

062

628063

APPENDIX ONE

COAL SEAM ISOPACHS OF THE LOATTA,
PIPERS LAGOONS AND SELBOURNE DEPOSITS.

063

028064

J of M	A.O.	C.G.	E.O.	D.S.M.E
Received - 1 FEB 1983				Registrar
Answered				E & IL
DEPT. OF MINES				
REF. No. 785/83				

LEGEND

- R068 Rotary Chip Hole
- C068 Cored Hole
- R068
2-16 Rotary Chip Hole Showing Coal Thickness
- R069
○ Rotary Chip Hole Showing Seam Horizon Intersected
- R070
x Rotary Chip Hole Showing Seam Horizon Not Present

COAL ISOPACHS

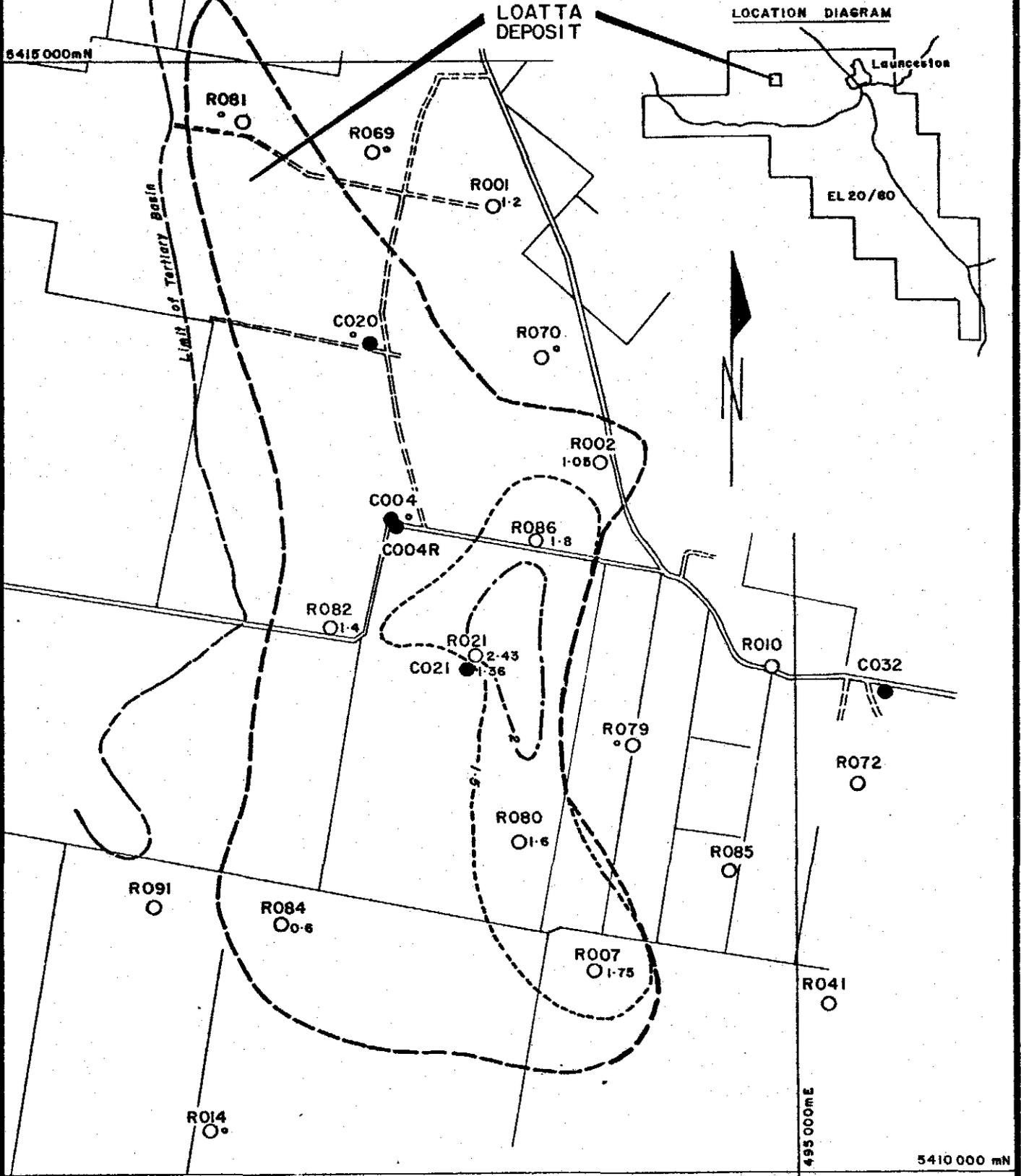
- Deposit Outline
- - - 1.5m
- - - 2.0m
- . - . 3.0m
- 4.0m
- - - 5.0m
- . - . 6.0m
- . - . 7.0m
- . - . 8.0m

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP CSR	
DRAWING / DATE	EL20/80 LAUNCESTON SEAM ISOPACH LEGEND	SCALE	
DRAWN Sept '82		FIGURE 13	
CHECKED		DRAWING No	
REVISED		70020-63	

064

628065

5 cm



LOCATION DIAGRAM

Launceston

EL 20/80

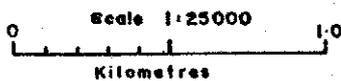


5415 000mN

Limit of Tertiary Basin

495 000mE

5410 000 mN

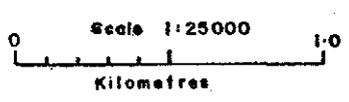
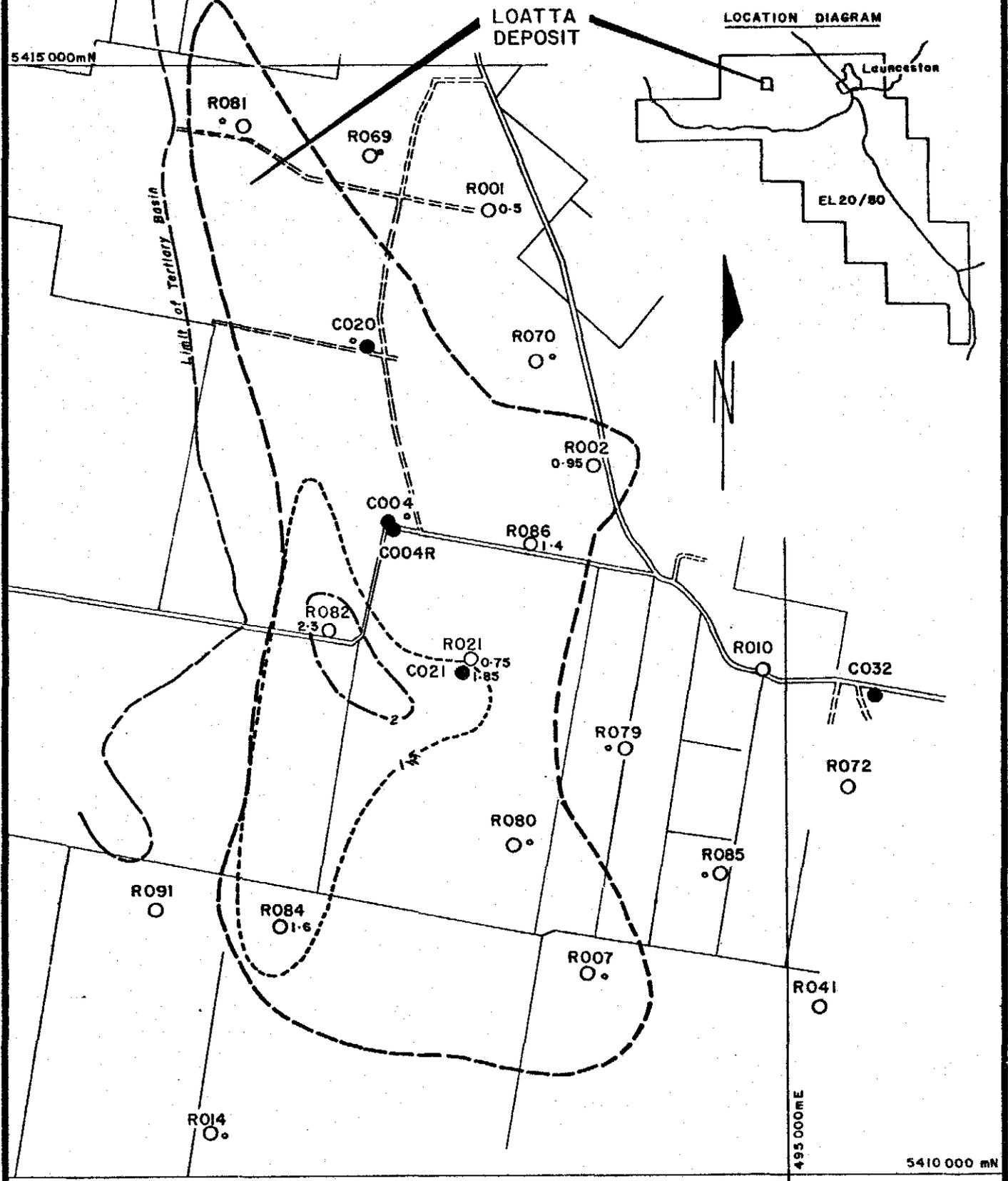


CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE 1 : 25 000
DRAWN	Aug '82	LOATTA		FIGURE 14
CHECKED		LAI SEAM ISOPACHS		DRAWING No 70020 - 48
REVISED				

065

628066

5 cm



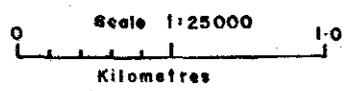
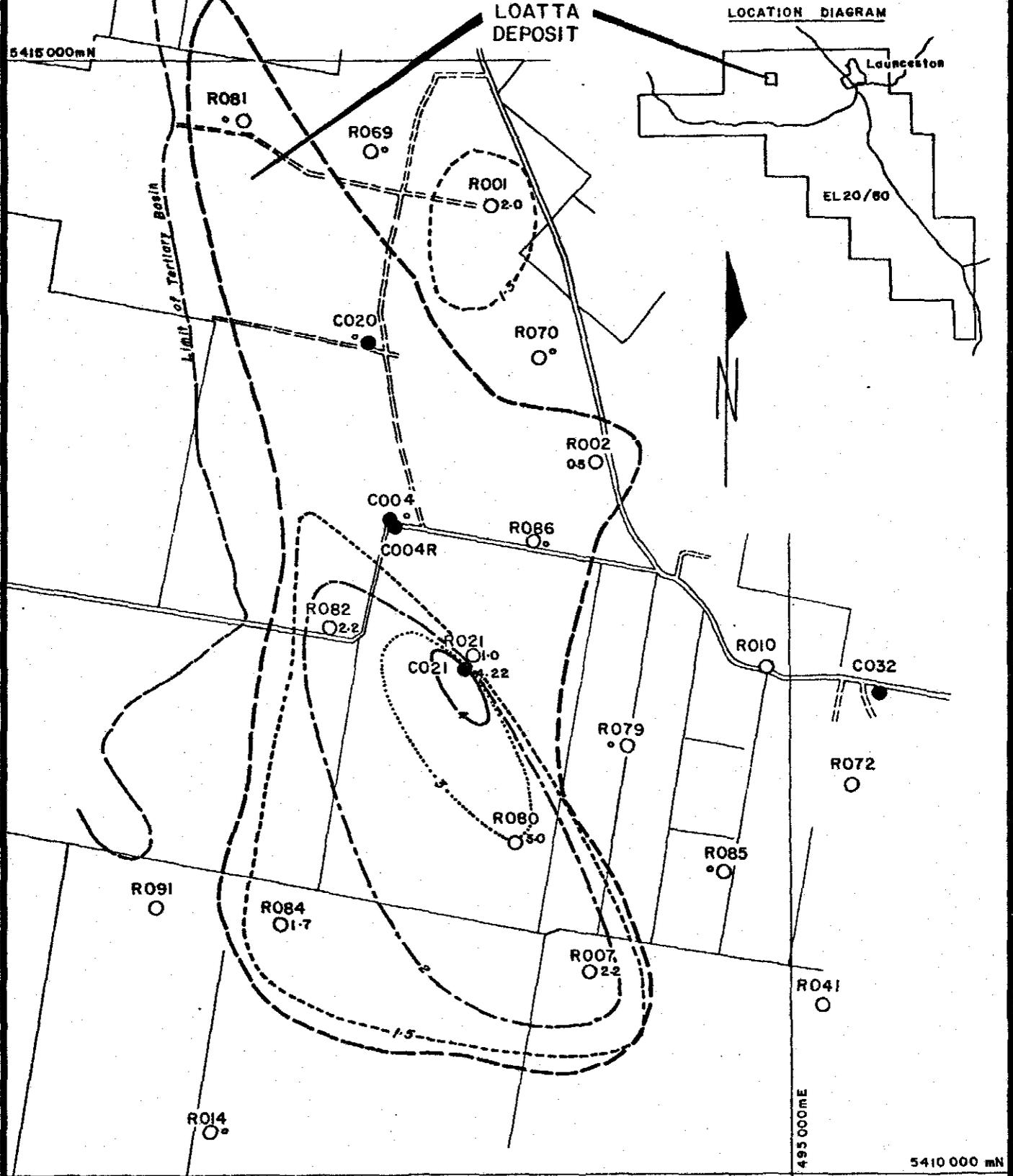
CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR
DRAWING / DATE		SCALE		1 : 25 000
DRAWN	Aug '82	FIGURE 15		DRAWING No
CHECKED		70020 - 49		
REVISED				

EL 20/80 LAUNCESTON
LOATTA
LA2 SEAM ISOPACHS

066

628067

5 cm

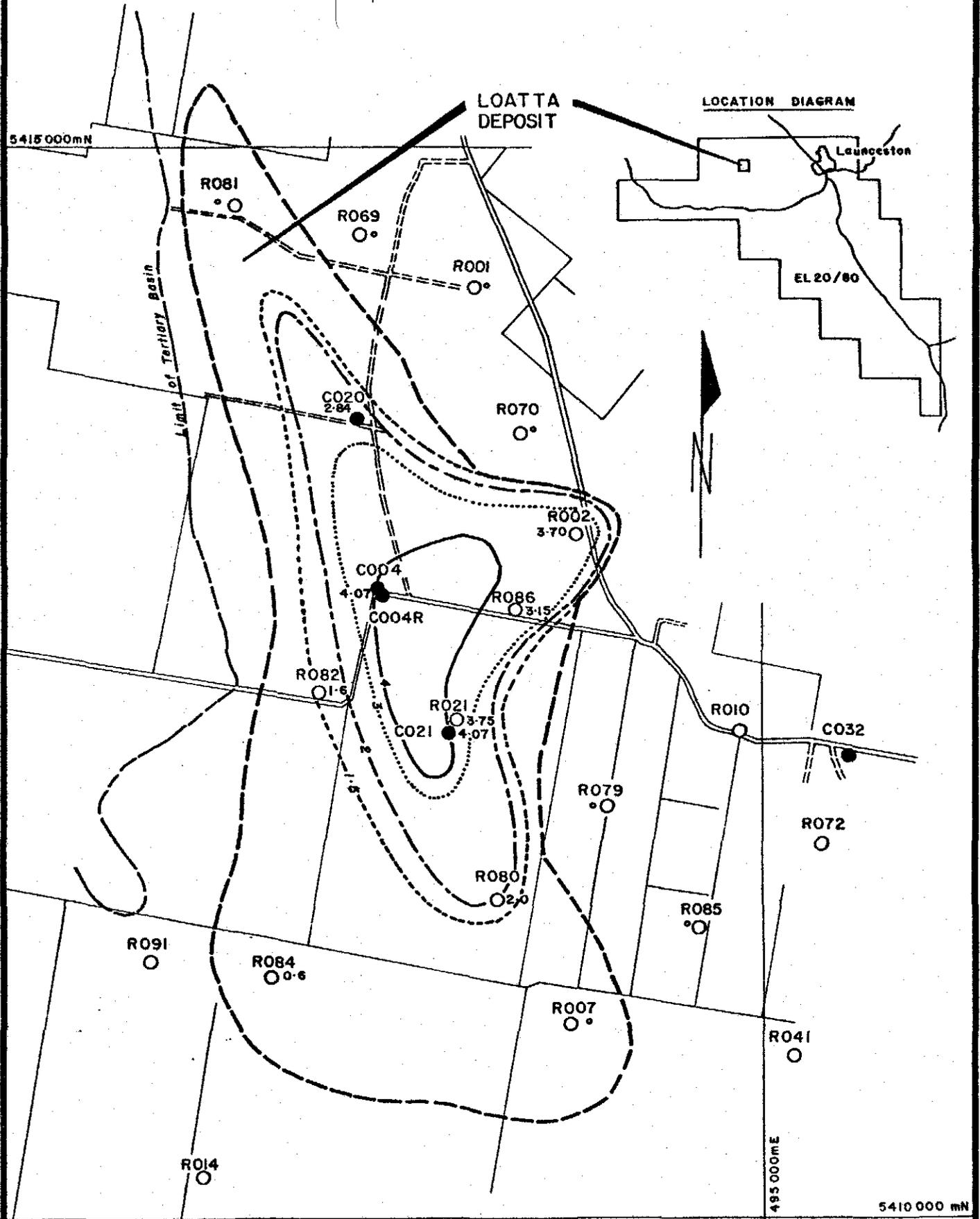


CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP CSR	
DRAWING / DATE		SCALE	
DRAWN	Aug '82	1 : 25 000	
CHECKED		FIGURE 16	
REVISED		DRAWING No 70020 - 50	
		EL 20/80 LAUNCESTON LOATTA LA3 SEAM ISOPACHS	

067

628068

5 cm

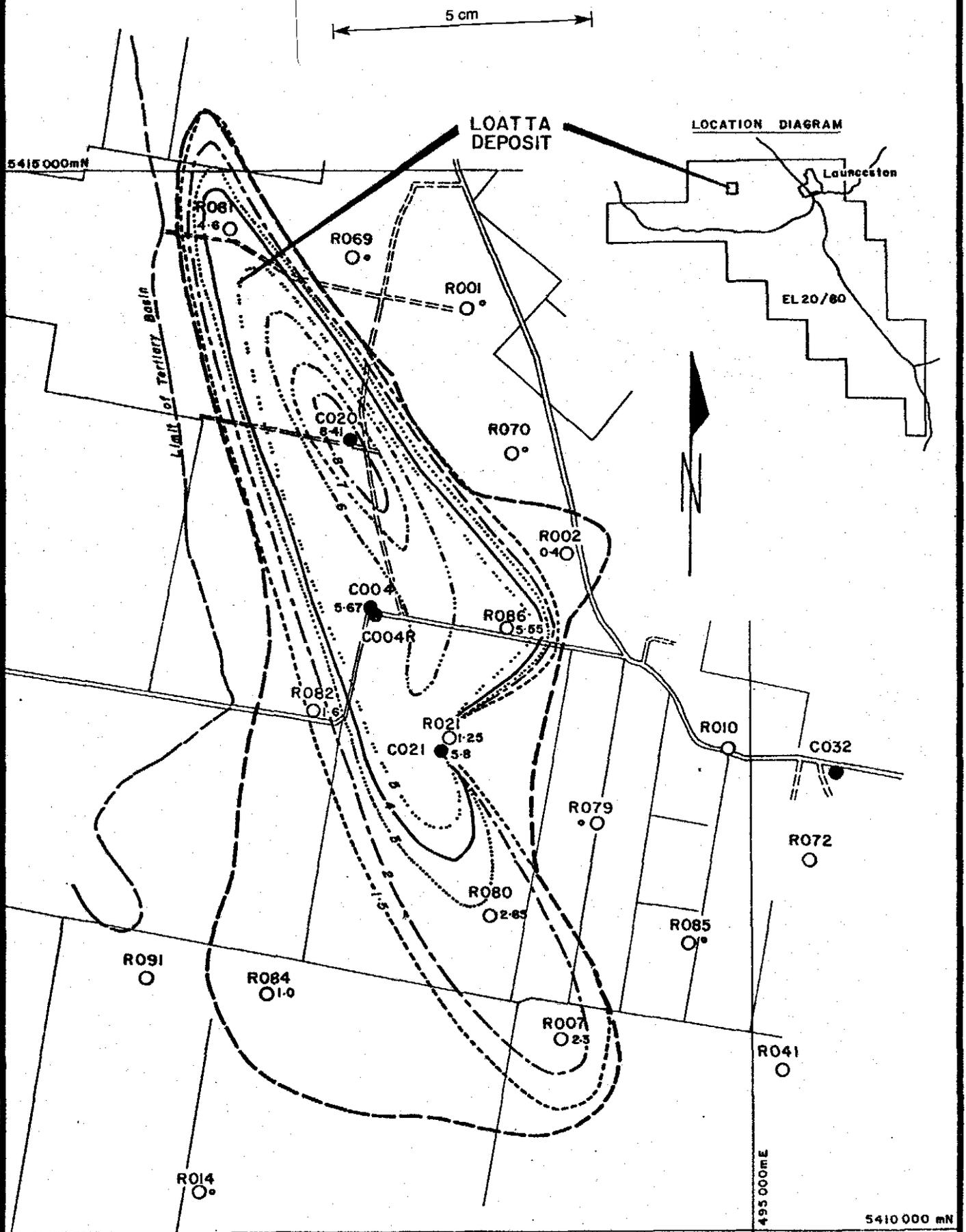


CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR	
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE	
DRAWN Aug '82		LOATTA		1 : 25 000	
CHECKED		LBI SEAM ISOPACHS		FIGURE 17	
REVISED				DRAWING No	
				70020 - 51	

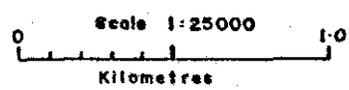
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0 1.0
Kilometres

068

628069



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP CSR	
DRAWING / DATE		SCALE	
DRAWN	Aug '92	1 : 25 000	
CHECKED		FIGURE 18	
REVISED		DRAWING No 70020 -52	



EL 20/80 LAUNCESTON
LOATTA
LB2 SEAM ISOPACHS

069

628070

5 cm

5415 000mN

LOCATION DIAGRAM

Launceston

EL 20/80

Limit of Tertiary Basin

LOATTA DEPOSIT

R081
5.4

R069

R001

C020
3.75

R070

R002

C004
4.46

R086

R082
2.6

R021
C021

R010

C032

R079

R072

R080
2.0

R085

R091

R084
2.6

R007
01.95

R041

R014

495 000mE

5410 000 mN

Scale 1:25000
0 1.0
Kilometres

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE 1 : 25 000
DRAWN Aug '82		LOATTA		FIGURE 19
CHECKED		LB3 SEAM ISOPACHS		DRAWING No 70020 - 53
REVISED				

070

628071

5 cm

5415 000mN

LOCATION DIAGRAM

Launceston

EL 20/80

Limit of Tertiary Basin

LOATTA DEPOSIT

R081

O1-3

R069

O

R001

O

C020

2-26

R070

O

R002

O

C004

O

R086

O

C004R

R082

O1-6

R021

O

C021

O

R010

O

C032

R072

O

R080

O1-4

R085

O

R091

O

R084

O1-8

R007

O2-55

R041

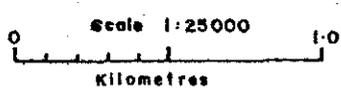
O

R014

O

495 000mE

5410 000 mN



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP CSR	
DRAWING / DATE		SCALE	
DRAWN	Aug '82	1 : 25 000	
CHECKED		FIGURE 20	
REVISED		DRAWING No	
		70020 - 54	

EL 20/80 LAUNCESTON
LOATTA
LCI SEAM ISOPACHS

071

628072

5 cm

5415 000mN

LOCATION DIAGRAM

Launceston

EL 20/80

Limit of Tertiary Basin

LOATTA DEPOSIT

R081

R069

R001

C020

R070

R002

C004

R086

C004R

R082

R021

C021

R010

C032

R072

R079

R080

R085

R091

R084

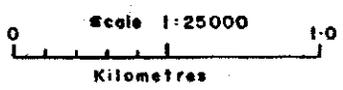
R007

R041

R014

495 000mE

5410 000 mN

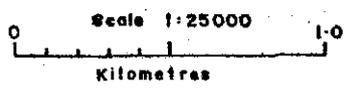
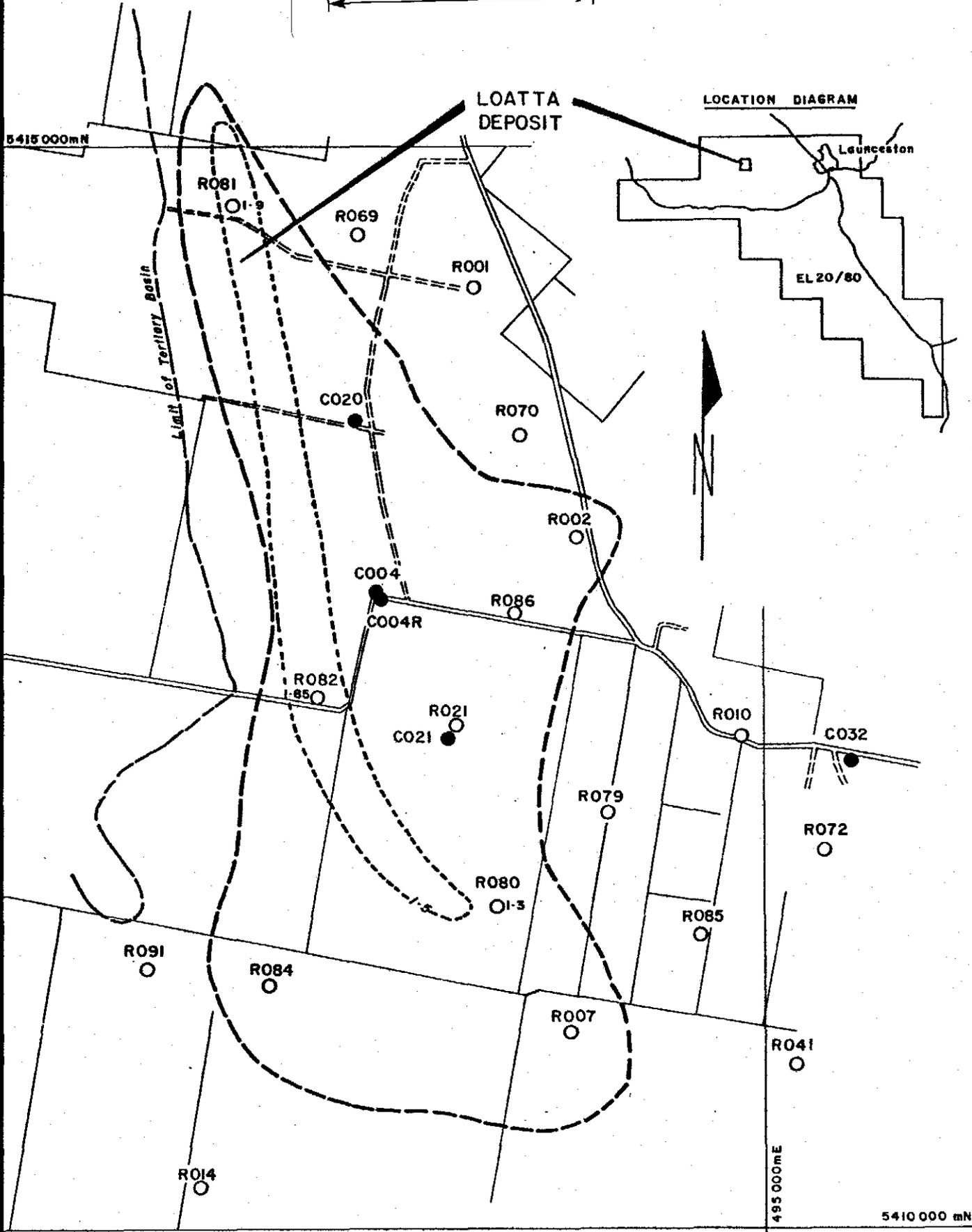


CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP CSR	
DRAWING / DATE		SCALE	
DRAWN	Aug '82	1 : 25 000	
CHECKED		FIGURE 21	
REVISED		DRAWING No 70020-55	
EL 20/80 LAUNCESTON LOATTA LC2 SEAM ISOPACHS			

072

628073

5 cm



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP CSR	
DRAWING / DATE		SCALE	
DRAWN	Aug '82	1 : 25 000	
CHECKED		FIGURE 22	
REVISED		DRAWING No 70020 - 56	
EL 20/80 LAUNCESTON LOATTA LC3 SEAM ISOPACHS			

073

628074

495 000 ME

5 cm

LOCATION DIAGRAM

Launceston

PIPERS LAGOONS DEPOSIT

EL 20/80

Limit of Territory Basin

RO10

RO730
x

●C022
x

OR074
o

RO72
O 1-6

●C032
x

RO40
o

●C067
1-73

●C071
x

OR068
x

OR095
x

OR041

OR006
x

●C033R ●C033
x

OR023
x

5 410 000 mN

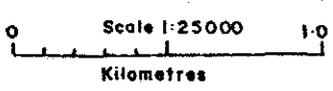
O RO89
o

OR087
2-7

OR009
1-4

O RO08
o

OR083
x



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		
DRAWING / DATE		EL 20/80 LAUNCESTON PIPERS LAGOONS PAO SEAM ISOPACHS		SCALE
DRAWN B.H. Aug '82				1 : 25 000
CHECKED				FIGURE 23
REVISED				DRAWING No 70020-38

074

628075

495 000 ME

5 cm

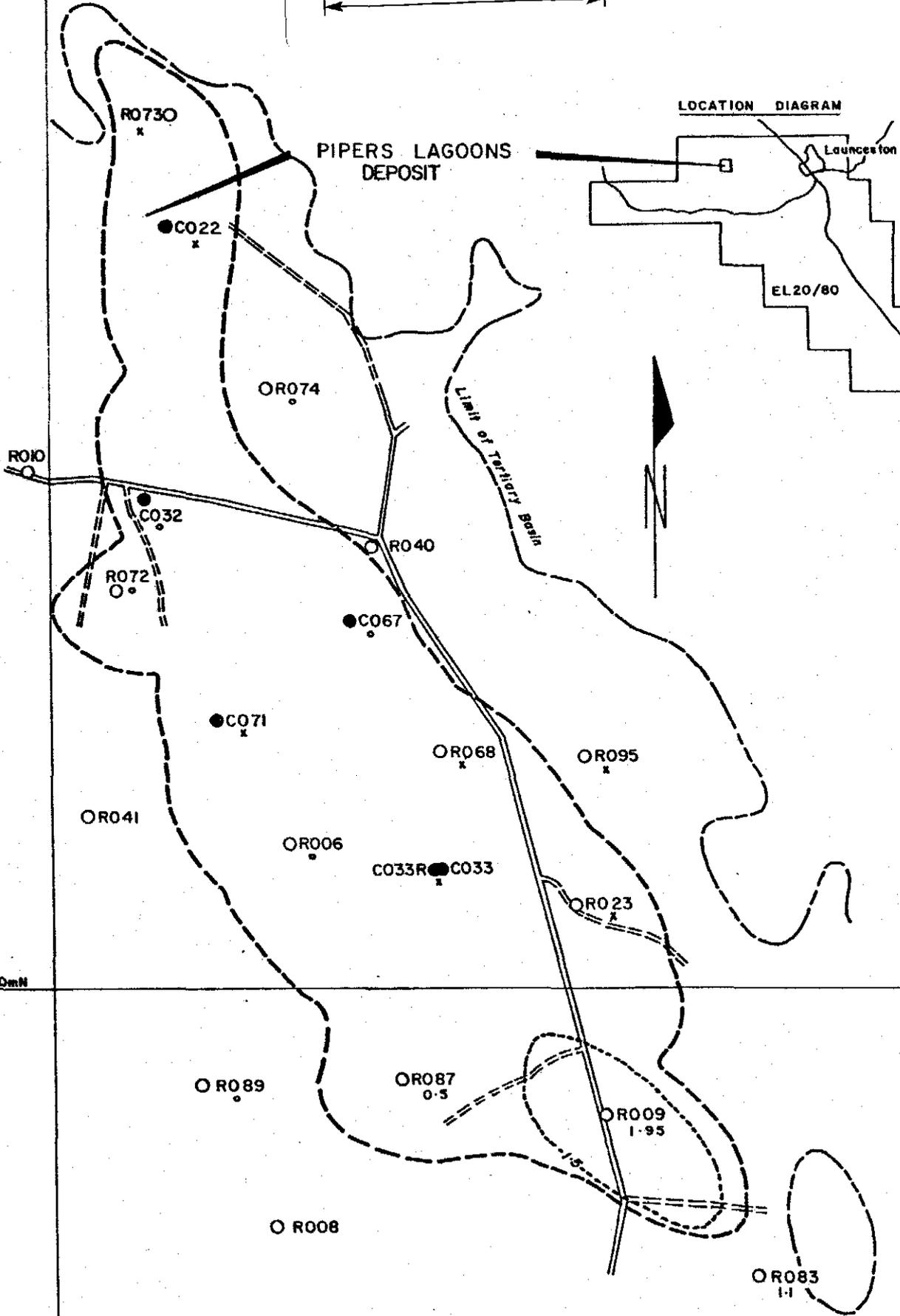
LOCATION DIAGRAM

Launceston

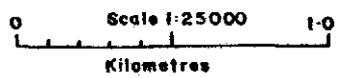
PIPERS LAGOONS DEPOSIT

EL 20/80

Limit of Tertiary Basin



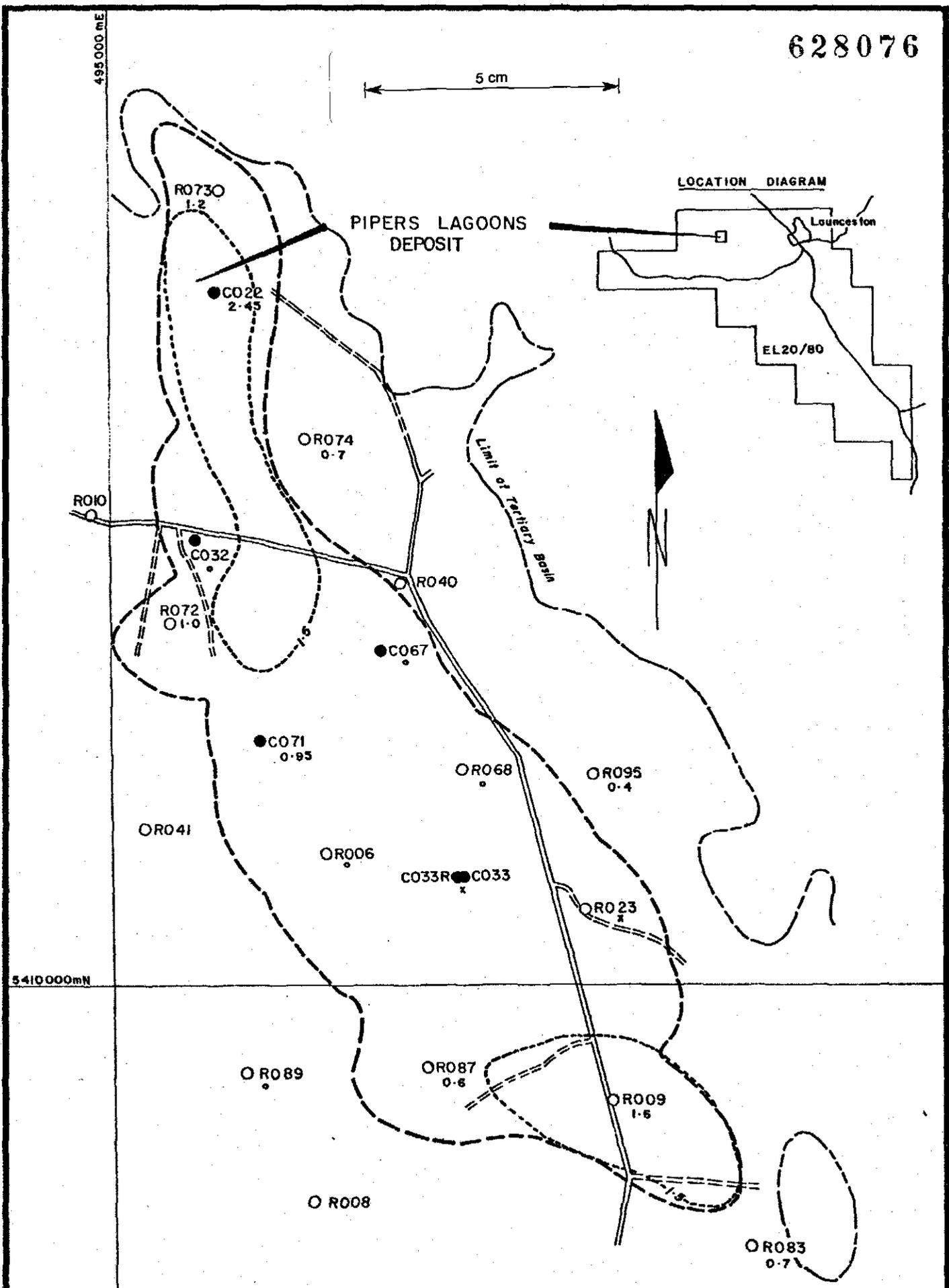
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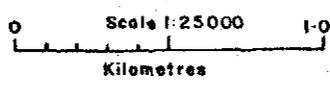
CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSIR	
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE	
DRAWN B.H. Aug '82		PIPERS LAGOONS		1 : 25 000	
CHECKED		PBI SEAM ISOPACHS		FIGURE 24	
REVISED				DRAWING No 70020-39	

075

628076



5410 000 MN



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSIR
DRAWING / DATE		DRAWN		SCALE
CHECKED		B.H. Aug '82		1:25000
REVISED		EL 20/80 LAUNCESTON PIPERS LAGOONS PB2 SEAM ISOPACHS		FIGURE 25
				DRAWING No 70020-40

076

628077

495 000 ME

5 cm

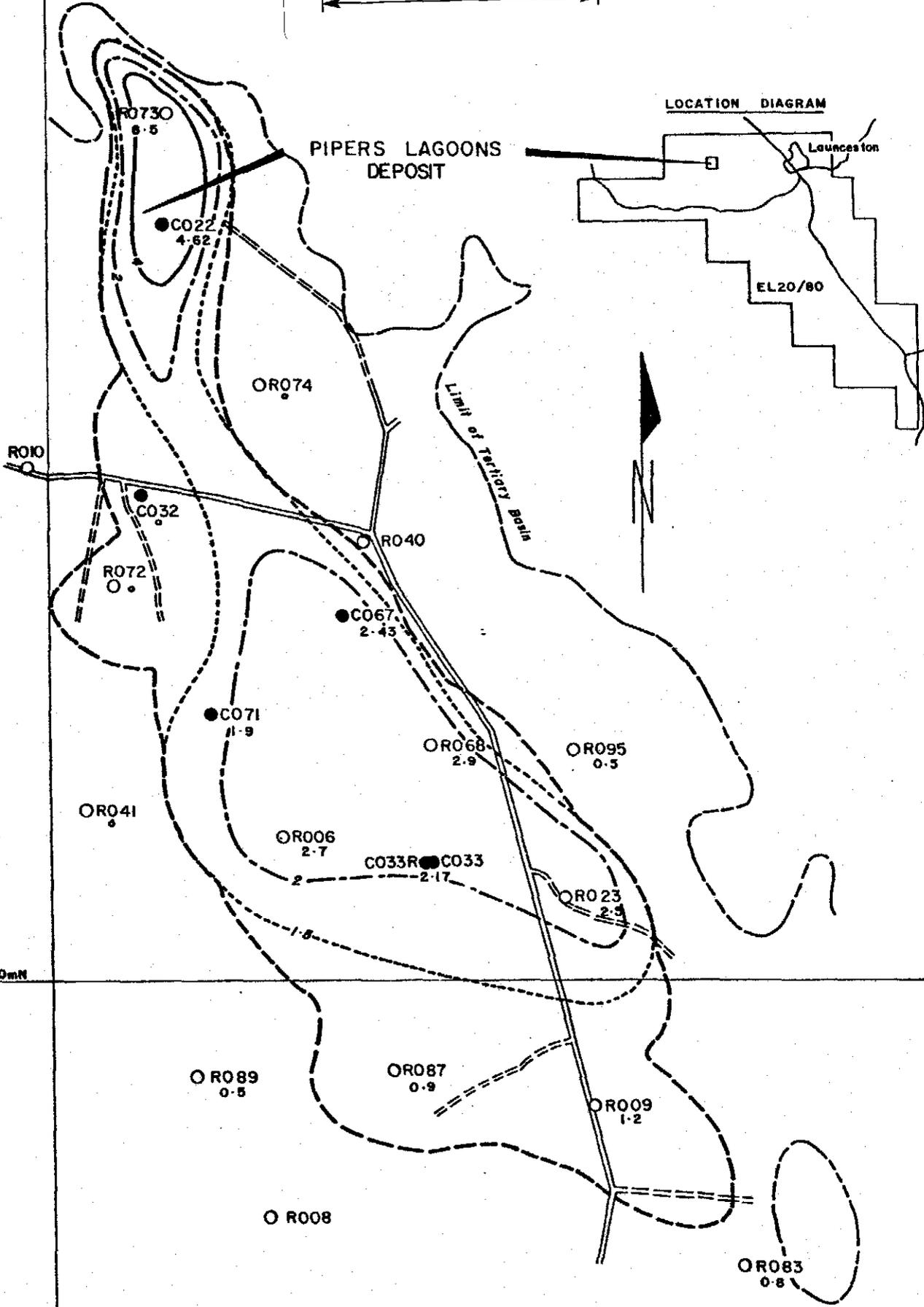
LOCATION DIAGRAM

Launceston

PIPERS LAGOONS DEPOSIT

EL20/80

Limit of Tertiary Basin



5410000mN

Scale 1:25000
0 1.0
Kilometres

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR	
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE	
DRAWN B.H. Aug '82		PIPERS LAGOONS		1 : 25 000	
CHECKED		PB3 SEAM ISOPACHS		FIGURE 26	
REVISED				DRAWING No	
				70020 - 41	

077

628078

496,000 ME

5 cm

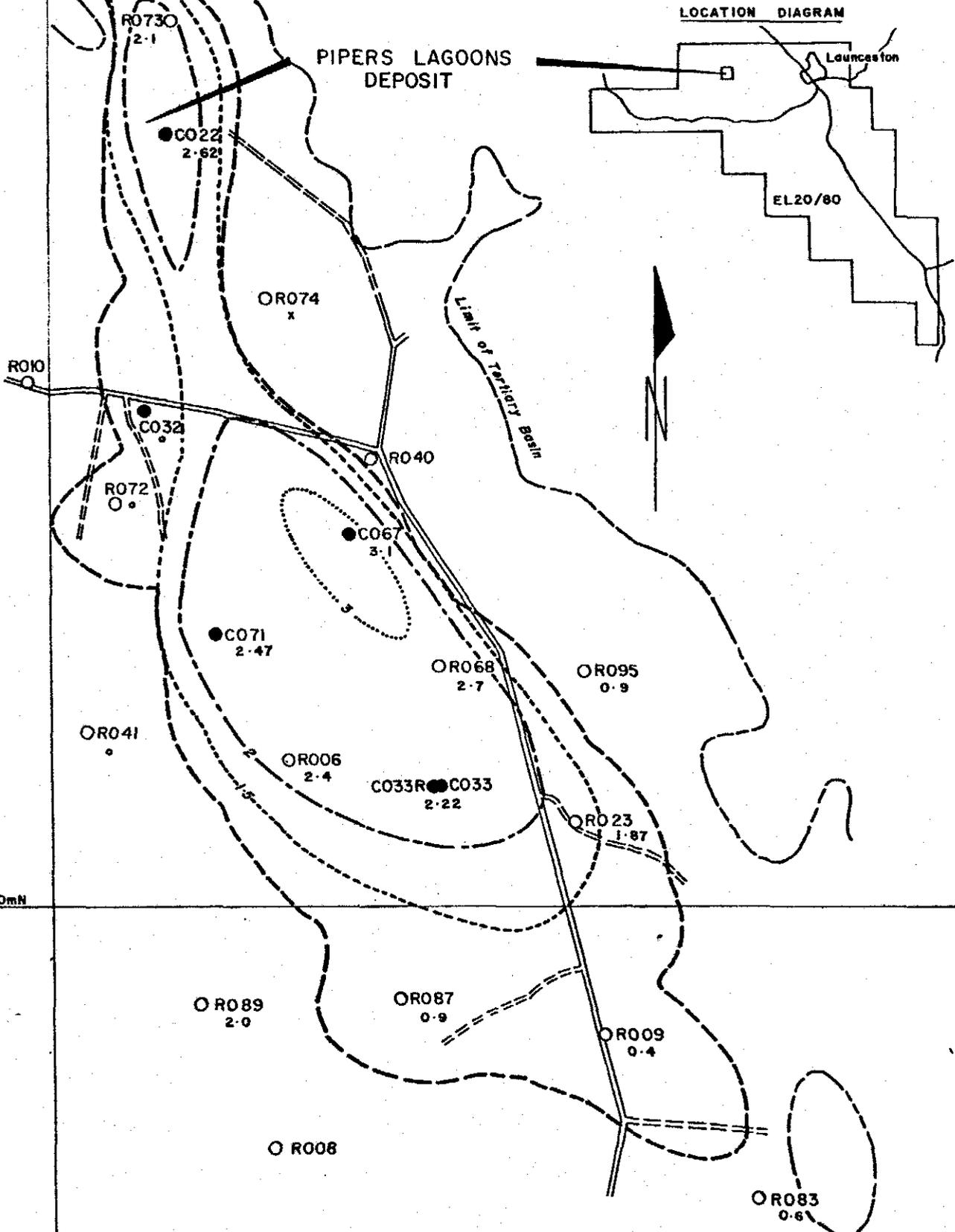
LOCATION DIAGRAM

Launceston

PIPERS LAGOONS DEPOSIT

EL20/80

Limit of Tertiary Basin



5410000mN

Scale 1:25000
Kilometres

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE
DRAWN B.N. Aug '82		PIPERS LAGOONS		1 : 25 000
CHECKED		PB4 SEAM ISOPACHS		FIGURE 27
REVISED				DRAWING No
				70020 - 42

078

628079

498 000 ME

5 cm

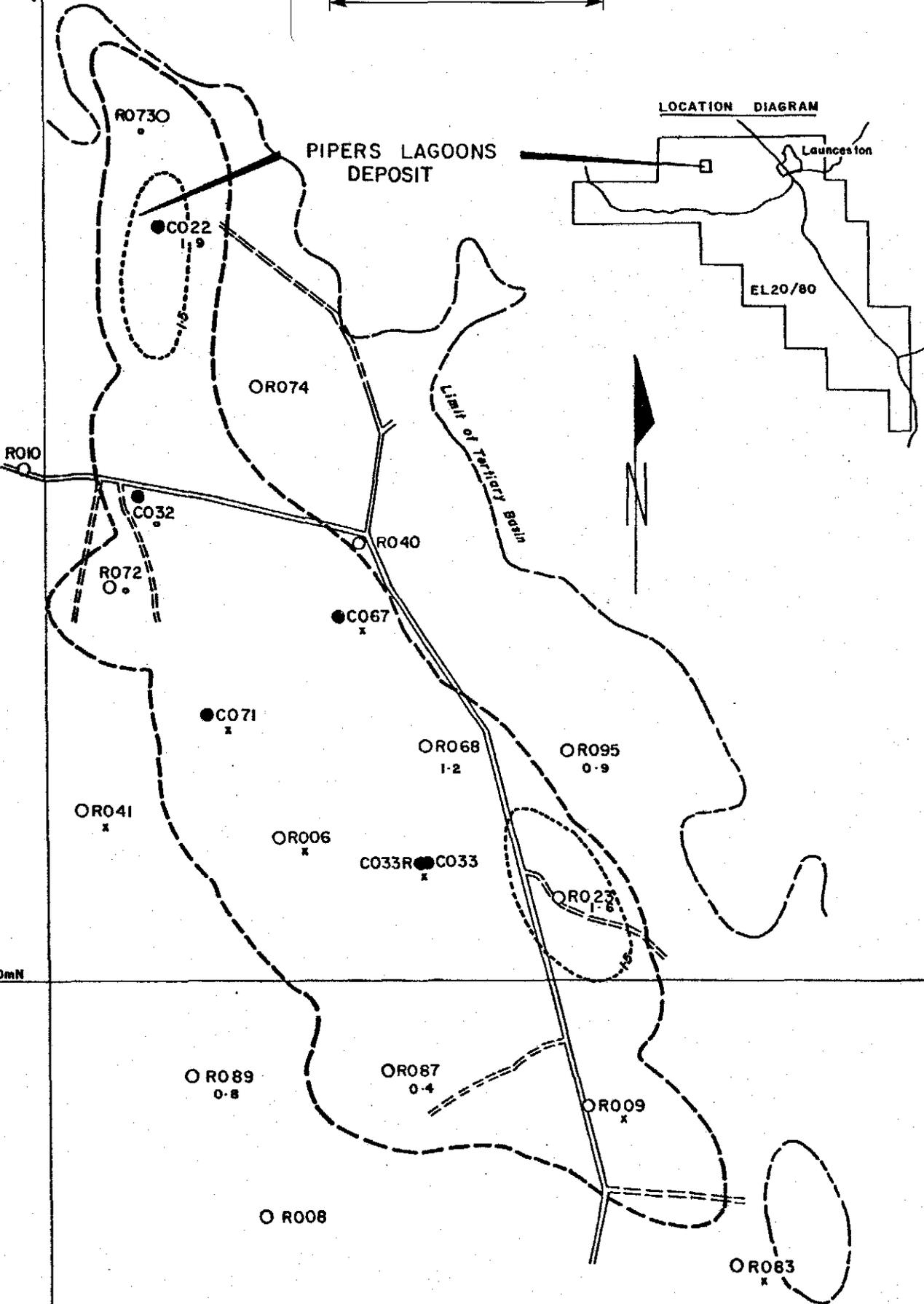
LOCATION DIAGRAM

Launceston

PIPERS LAGOONS DEPOSIT

EL20/80

Limit of Tertiary Basin



RO10

RO730

CO22

OR074

RO72

CO32

RO40

CO67

CO71

OR068

OR095

OR041

OR006

CO33R CO33

OR023

5410000mN

OR089

OR087

OR009

OR008

OR083

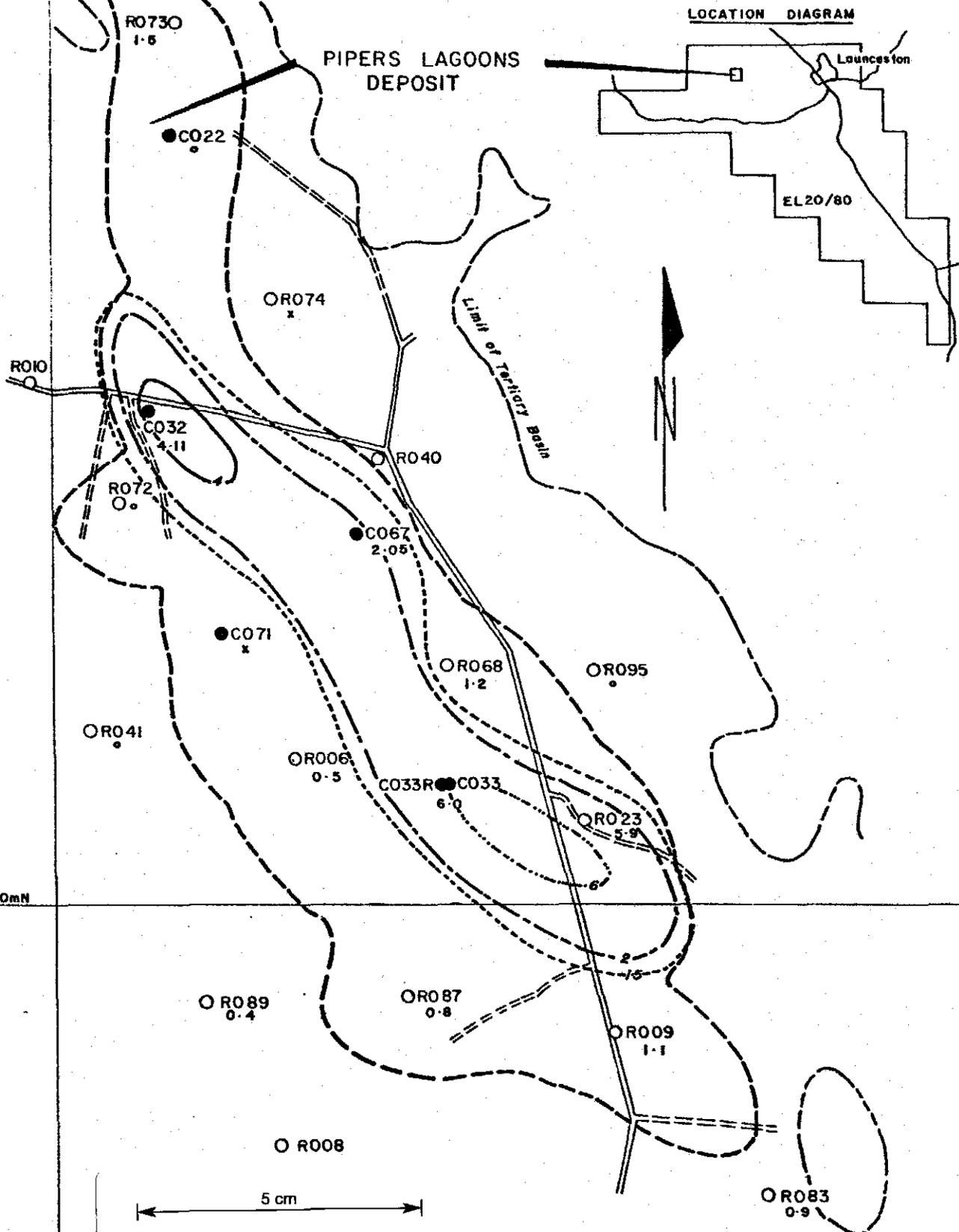
Scale 1:25000
Kilometres

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR	
DRAWING / DATE		EL 20/80 LAUNCESTON PIPERS LAGOONS PCI SEAM ISOPACHS		SCALE	
DRAWN B.H. Aug '82				1 : 25 000	
CHECKED				FIGURE 28	
REVISED				DRAWING No 70020-43	

079

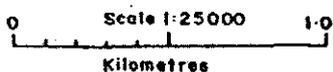
628080

495 000 mE



5410 000 mN

5 cm

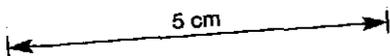


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DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE
DRAWN B.H. Aug '82		PIPERS LAGOONS		1 : 25 000
CHECKED		PC2 SEAM ISOPACHS		FIGURE 29
REVISED				DRAWING No 70020-44

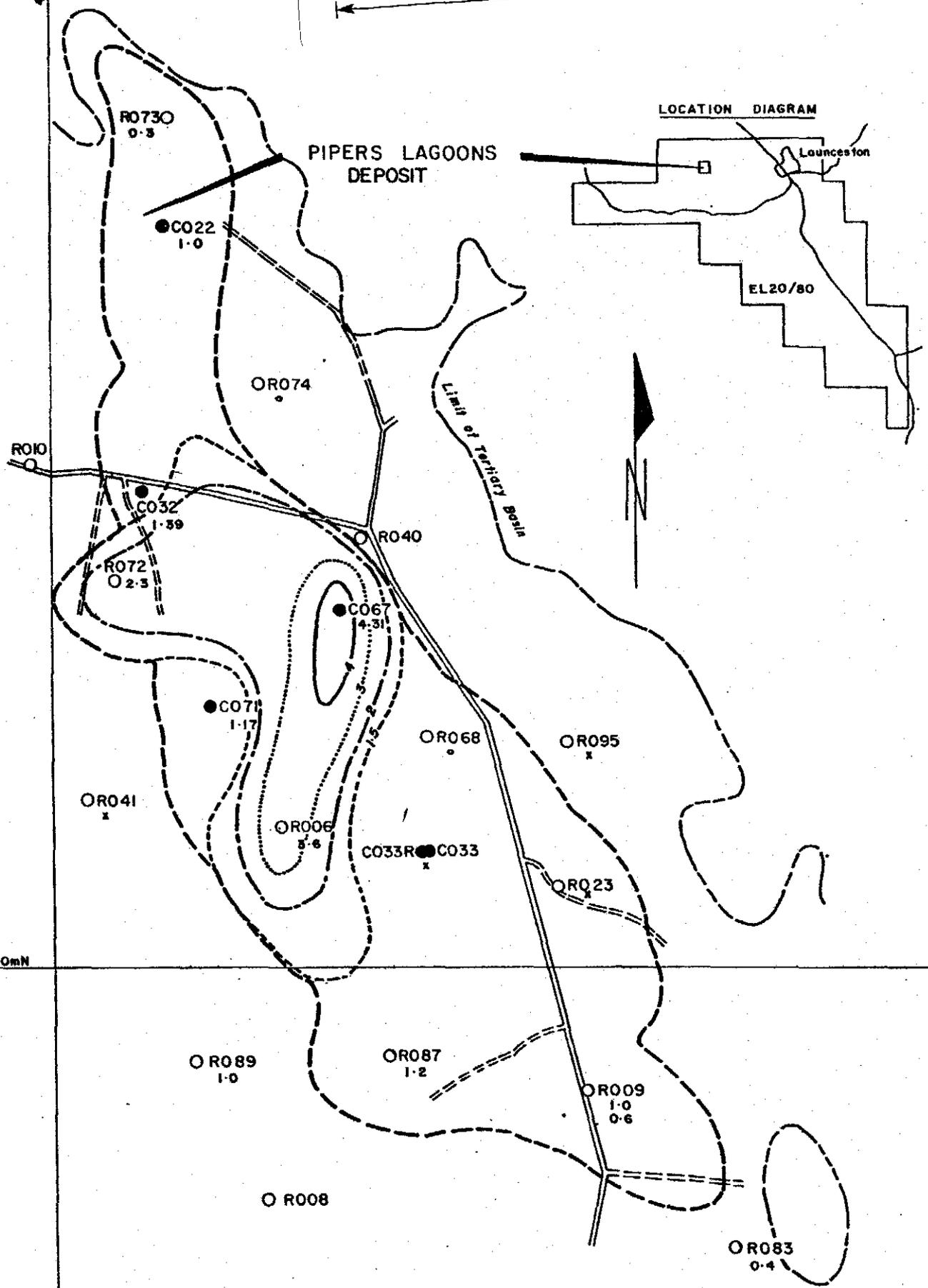
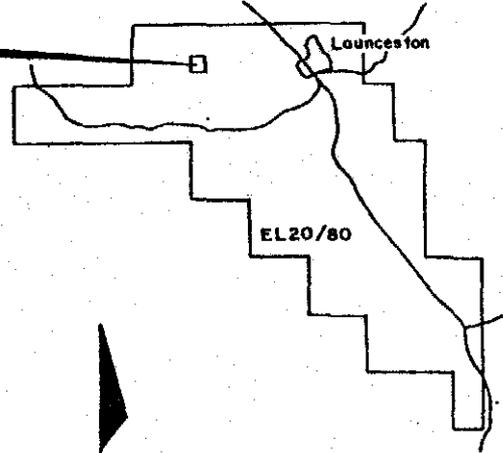
080

628081

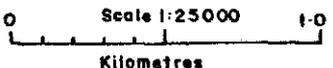
498 000 ME



LOCATION DIAGRAM



5 410 000mN



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE 1 : 25 000
DRAWN B.H. Aug '82		PIPERS LAGOONS		FIGURE 30
CHECKED		PC3 SEAM ISOPACHS		DRAWING No 70020 - 45
REVISED				

081

628082

495 000 mE

5 cm

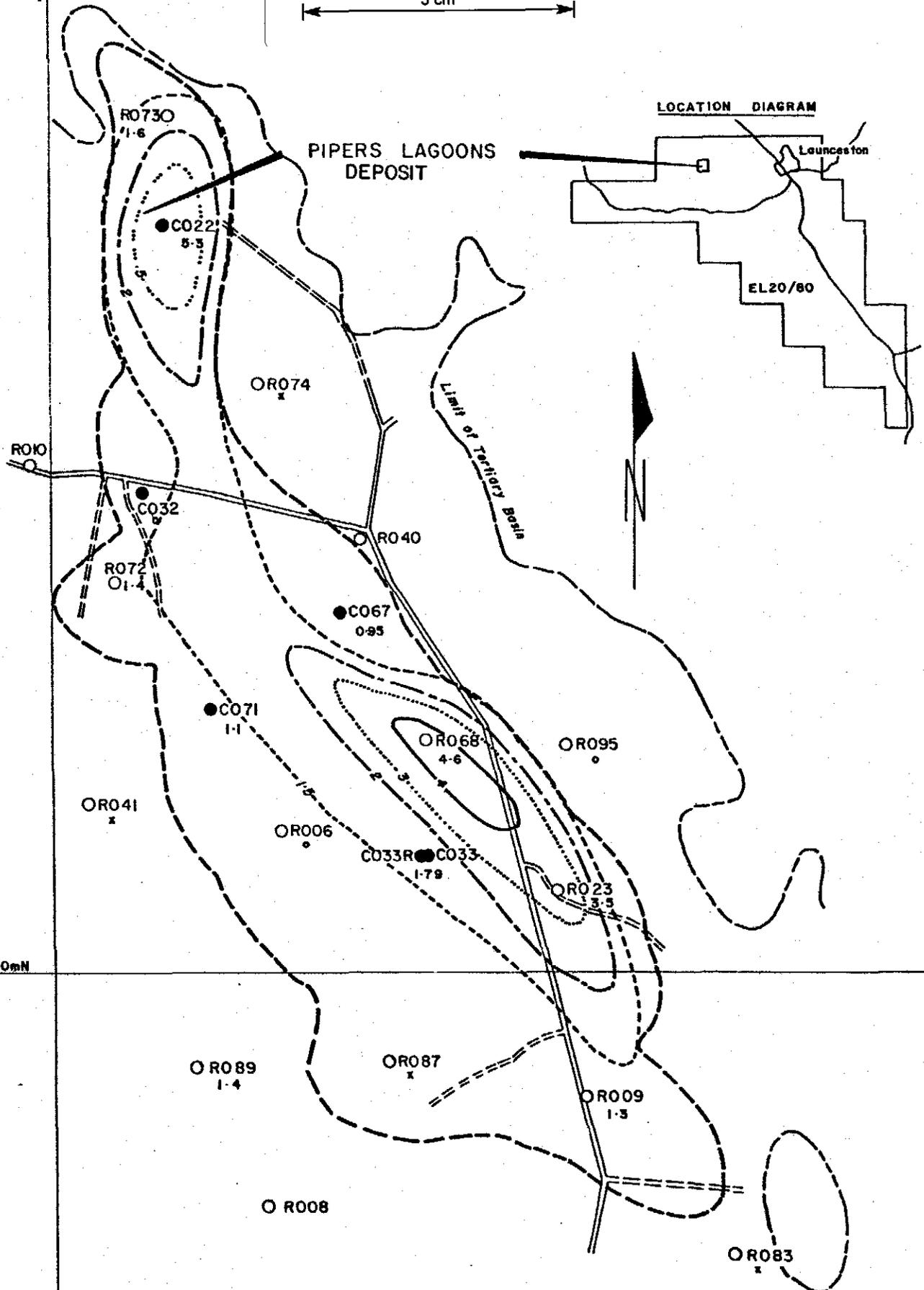
LOCATION DIAGRAM

Launceston

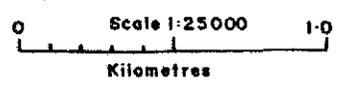
PIPERS LAGOONS DEPOSIT

EL20/80

Limit of Tertiary Basins



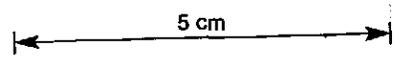
5410000mN



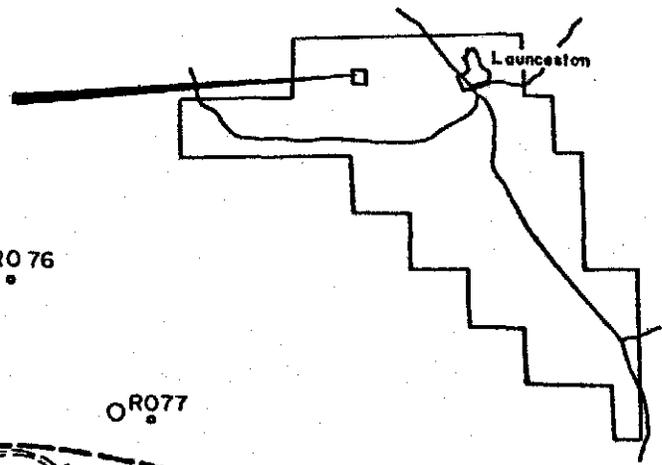
CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR	
DRAWING / DATE		EL 20/80 LAUNCESTON PIPERS LAGOONS PC4 SEAM ISOPACHS		SCALE	
DRAWN B.H. Aug '82				1 : 25 000	
CHECKED				FIGURE 31	
REVISED				DRAWING No 70020 - 46	

082

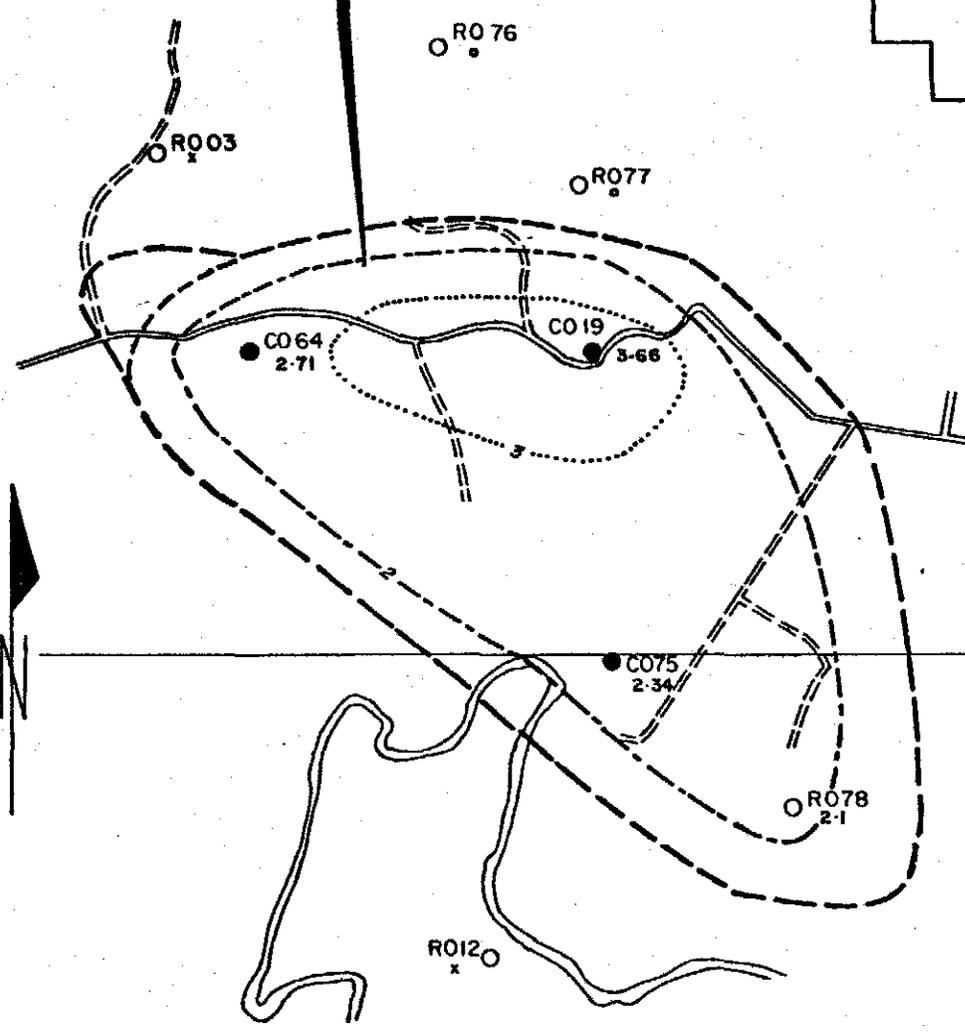
628083



LOCATION DIAGRAM

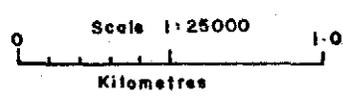


SELBOURNE DEPOSIT



Legend

- RO68 Rotary Chip Hole
- CO68 Cored Hole
- RO68 Coal Thickness
2-16
- RO69 Horizon Intersected
- No Coal
- RO70 Seams Not Intersected
x



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CS12
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE
DRAWN Sept '82		SELBOURNE		1:25000
CHECKED		SAI SEAM ISOPACHS		FIGURE 32
REVISED				DRAWING No
				70020-58

490 000 mE

083

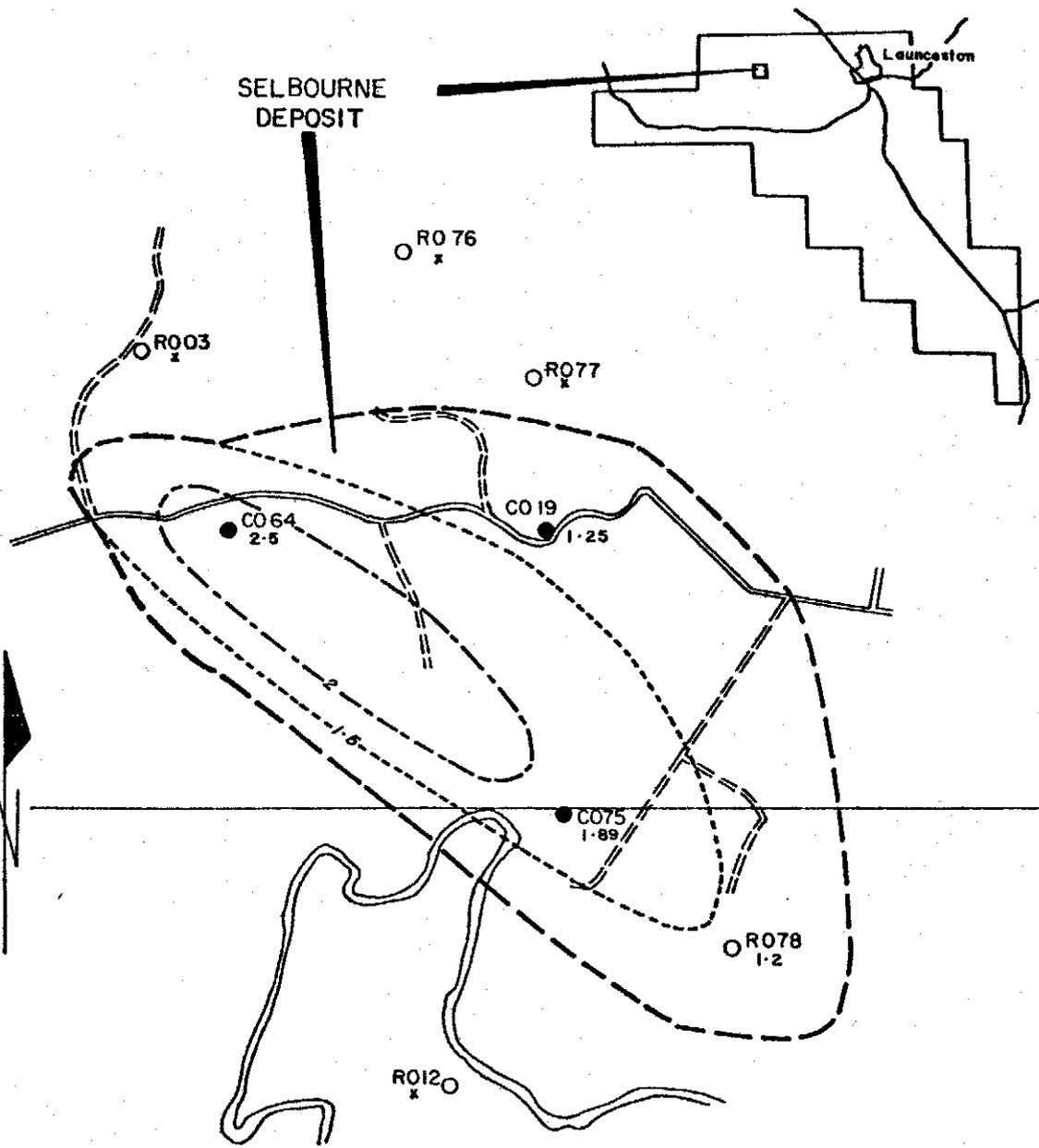
628084

5 cm

LOCATION DIAGRAM

Launceston

SELBOURNE DEPOSIT

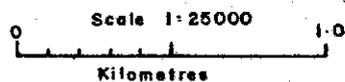


5410000 mN

490 000 mE

Legend

- R068 Rotary Chip Hole
- C068 Cored Hole
- R068 Coal Thickness
2-16
- R069 Horizon intersected
- No Coal
- R070 Seams Not intersected



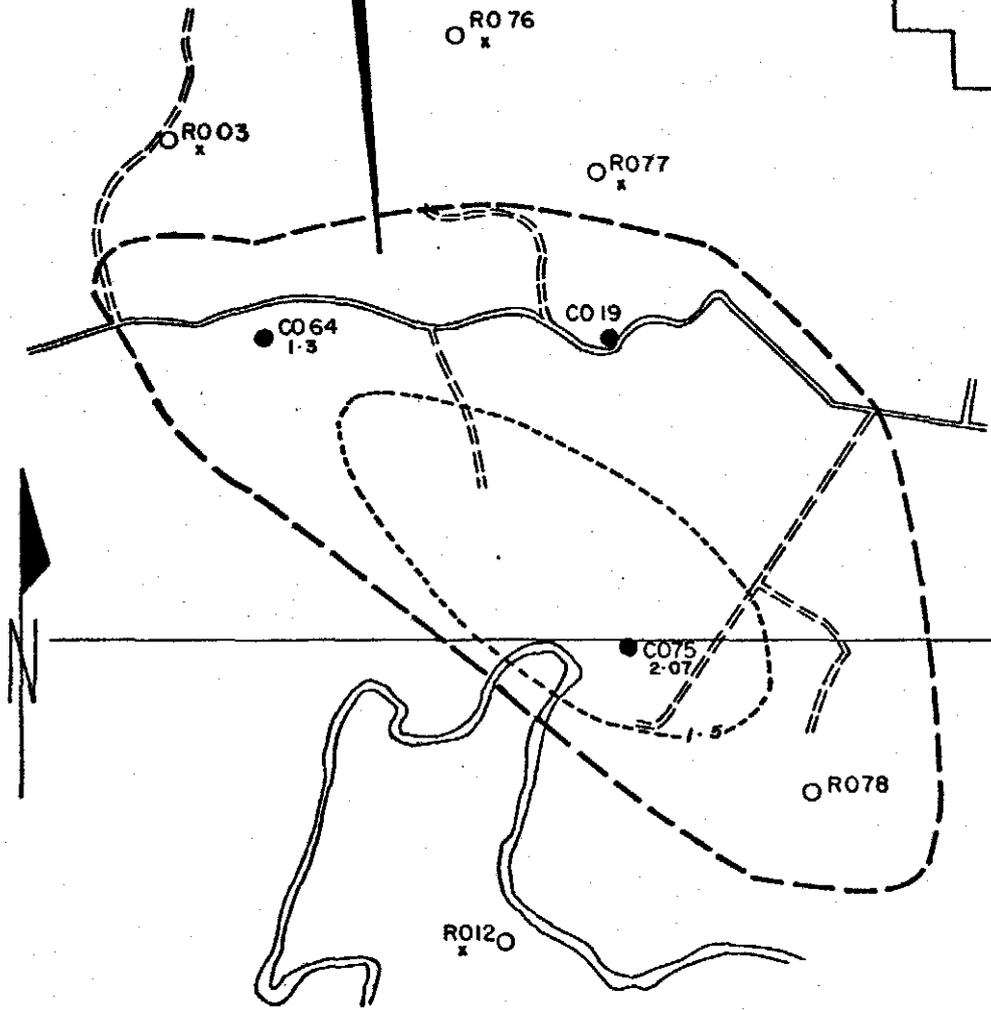
CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSIR
DRAWING / DATE		EL 20/80 LAUNCESTON SELBOURNE SA2 SEAM ISOPACHS		SCALE 1 : 25 000
DRAWN Sept '82				FIGURE 33
CHECKED				DRAWING No 70020 - 59
REVISED				

5 cm

LOCATION DIAGRAM

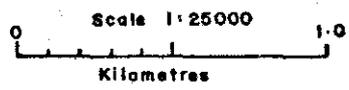
Launceston

SELBOURNE DEPOSIT



Legend

- RO68 Rotary Chip Hole
- CO68 Cored Hole
- RO68 Coal Thickness
2.16
- RO69 Horizon Intersected
- No Coal
- RO70 Seams Not Intersected



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR	
DRAWING / DATE		EL 20/80 LAUNCESTON SELBOURNE SB3 SEAM ISOPACHS		SCALE	
DRAWN	Sept '82			1: 25 000	
CHECKED				FIGURE 34	
REVISED				DRAWING No 70020 - 60	

490 000mE

085

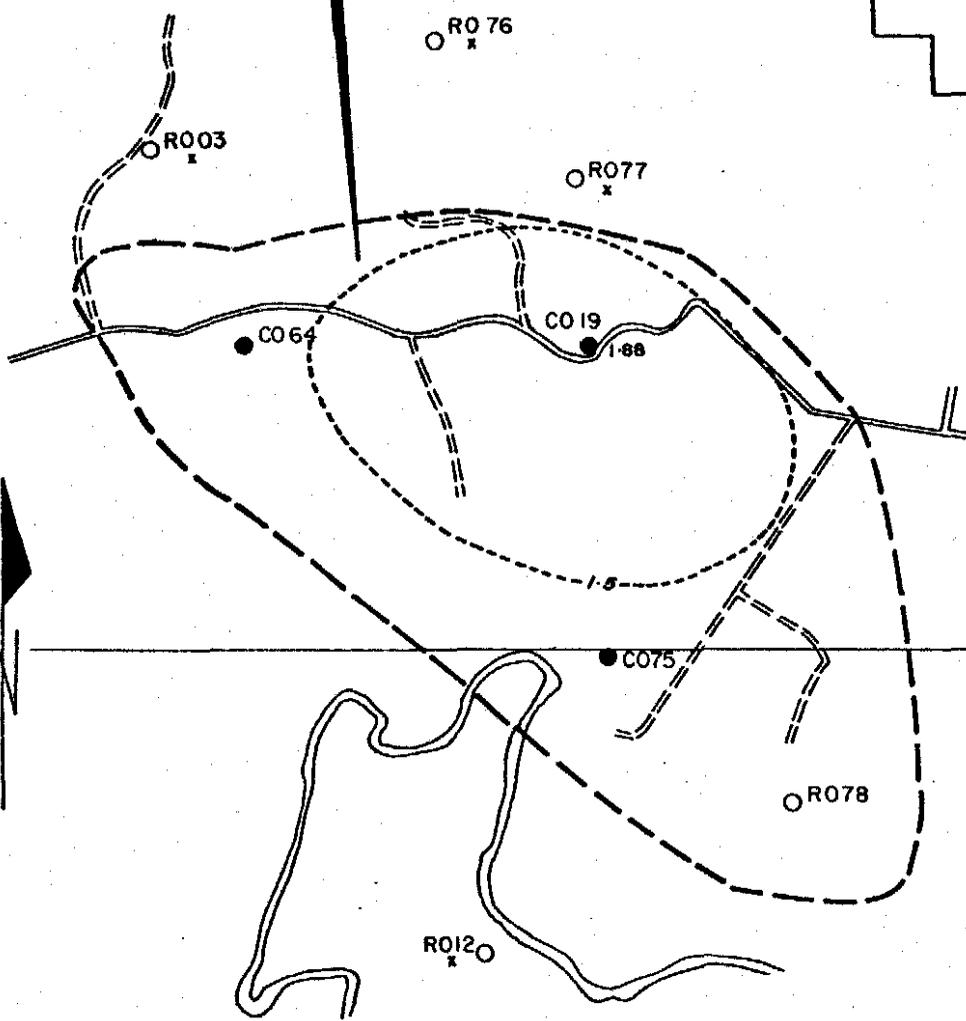
628086

5 cm

LOCATION DIAGRAM

Launceston

SELBOURNE DEPOSIT



5410000 mN

490 000 mE

Legend

- RO68 Rotary Chip Hole
- C068 Cored Hole
- RO68 Coal Thickness
2-16
- RO69 Horizon intersected
- No Coal
- RO70 Seams Not intersected

Scale 1:25000

0 1.0

Kilometres

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSIR
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE
DRAWN Sept '82		SELBOURNE		1:25000
CHECKED		SB4 SEAM ISOPACHS		FIGURE 35
REVISED				DRAWING No
				70020-61

086

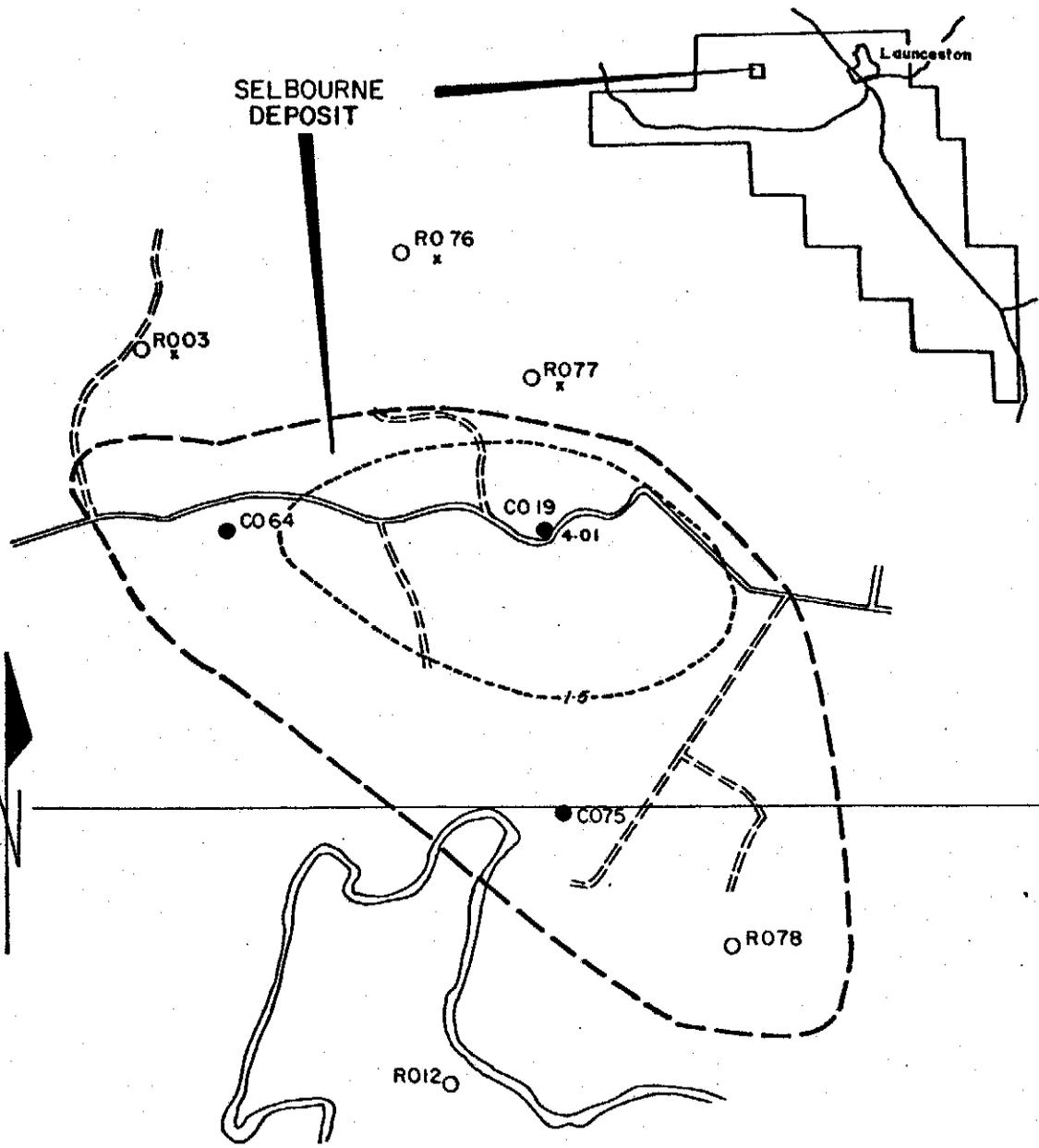
628087

5 cm

LOCATION DIAGRAM

Launceston

SELBOURNE DEPOSIT



Legend

- RO68 Rotary Chip Hole
- CO68 Cored Hole
- RO68 Coal Thickness 2-16
- RO69 Horizon Intersected - No Coal
- RO70 Seams Not Intersected

Scale 1:25000

0 1.0

Kilometres

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSIR
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE 1:25000
DRAWN	Sept '82	SELBOURNE		FIGURE 36
CHECKED		SCI SEAM ISOPACHS		DRAWING No 70020-62
REVISED				

490 000 mE

APPENDIX 2

EL20/80 LAUNCESTON

Coal Seam Nomenclature

Table 6

038

APPENDIX 2

Coal Seam Nomenclature

The following nomenclature, of two upper case english letters and one numeral, will be used to name the seams and seam splits. The letters S, L, and P will signify that the seam is in the Selbourne, Loatta and Pipers Lagoons sub-basin respectively.

Seams will be identified in descending stratigraphic order by the letters A, B, C, D and so on. Seam splits will be identified in descending order by numerals, 1, 2, 3 etc. The numeral, zero, will refer to the entire seam. For example, LB1 refers to the uppermost seam split of the second stratigraphically highest brown coal seam in the Loatta sub-basin.

Table 6 summarises the amendments made to seam nomenclature and correlations, showing in the left hand column the seam correlations as reported previously, (Ellis, 1982 a, b, and c), and the amended seam designations in the columns on the right.

APPENDIX 2TABLE 6EL 20/80 LAUNCESTON

Summary of amendments to Coal Seam Nomenclature, from 19th January, 1982 to 22nd August, 1982.

6 Monthly Period
Ended 19th January,
(Ellis, 1982a)

3 Monthly Period
Ended 22nd May,
(Ellis, 1982b)

Current Coal
Seam Nomenclature
(Ellis, 1982c)
(as of June, 1982)

	Selbourne Sub-Basin		
-		SA0	SA0
-		SBO	SBO
-		SCO	SCO
-		SD0	SD0
	Loatta Sub-Basin		
S11		LA1	LA1
S12		LA2	LA2
S13		LA3	LA3
		LA4	LA4
S21		LB1	LB1
S22		LB2	LB2
S31		LB1	LB2
S32		LB2	LB3
S33		LB3	
S34		LC1	LC1
S35		LC2	LC2
S36		LC3	LC3
	Pipers Lagoons Sub-Basin		
		PA0	PA0
-		-	PB1
-		-	PB2
S21		PB1	PB3
S22		PB2	PB4
S31		PC1	PC1
S32		PC2	PC2
S33		PC3	PC3
S41		PD1	PD1
S42		PD2	PD2
S43		PD3	PD3
		PC0 (C022)	PB0 (C022)
		PDO (C022)	PC0 (C022)

APPENDIX 3

EL20/80 LAUNCESTON

Overburden and Interburden Volumes

Tables 4 and 5

APPENDIX 3TABLE 4

Overburden Volumes of the Loatta, Pipers Lagoons and Selbourne Deposits.

Seam	Overburden x 10 ⁶ m ³		
	Loatta Deposit	Pipers Lagoons Deposit	Selbourne Deposit
A0	66.3	-	114.5
B0	132.4	105.7	-
C0	169.0	203.2	-

TABLE 5EL 20/80 LAUNCESTON

Interburden Volumes of the Loatta, Pipers Lagoons and Selbourne Deposits

Seams	Interburden x 10 ⁶ m ³		
	Loatta Deposit	Pipers Lagoons Deposit	Selbourne Deposit
B0-A0	66	-	-
C0-B0	102.8	97.5	-

APPENDIX FOUR

OVERBURDEN AND INTERBURDEN ISOPACHS OF
THE LOATTA, PIPERS LAGOONS AND
SELBOURNE DEPOSITS.

088

628089

5 cm

5415000mN

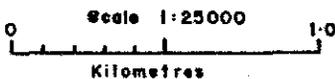
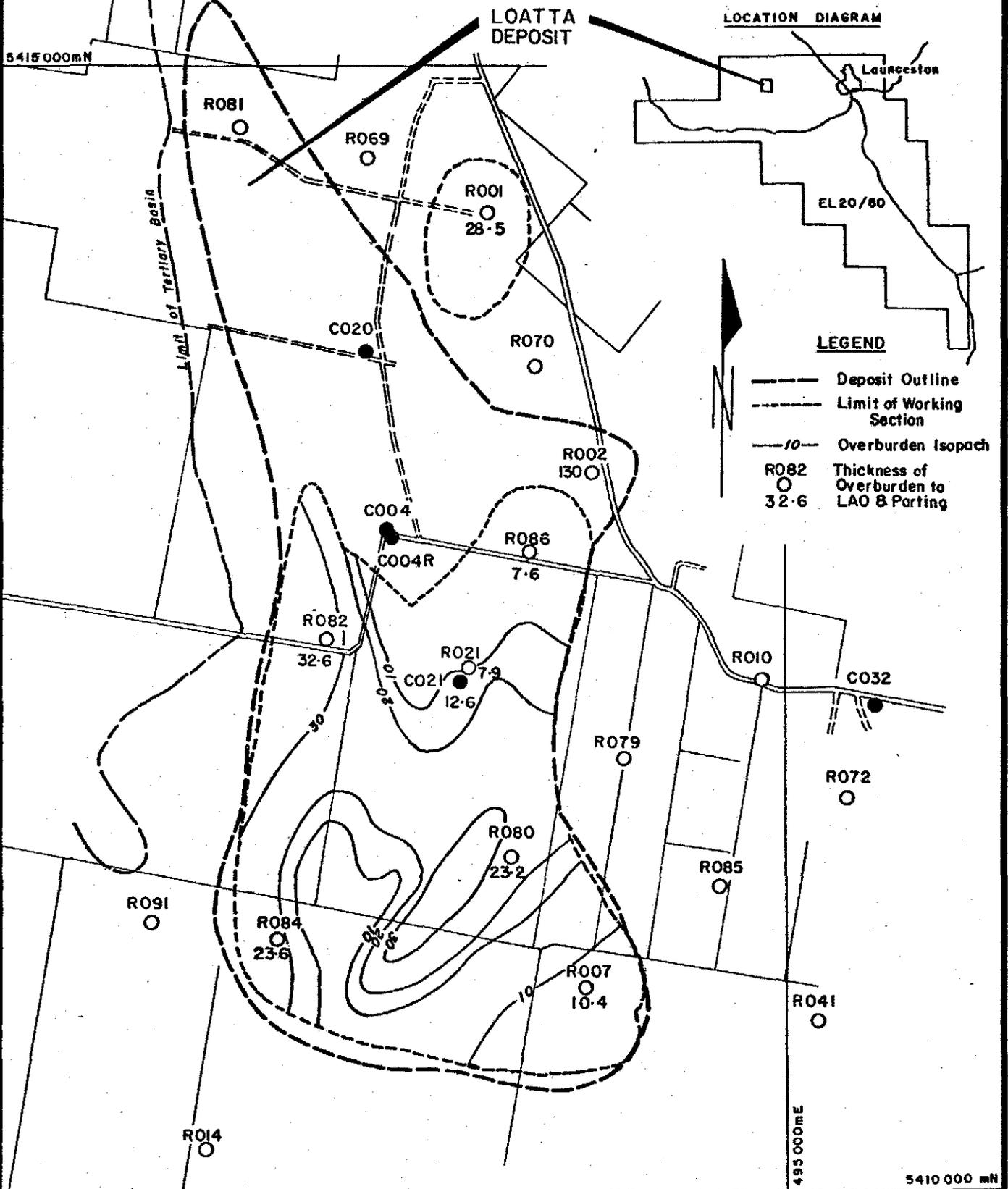
LOCATION DIAGRAM

Launceston

EL 20/80

LEGEND

- Deposit Outline
- Limit of Working Section
- Overburden Isopach
- Thickness of Overburden to LAO B Parting

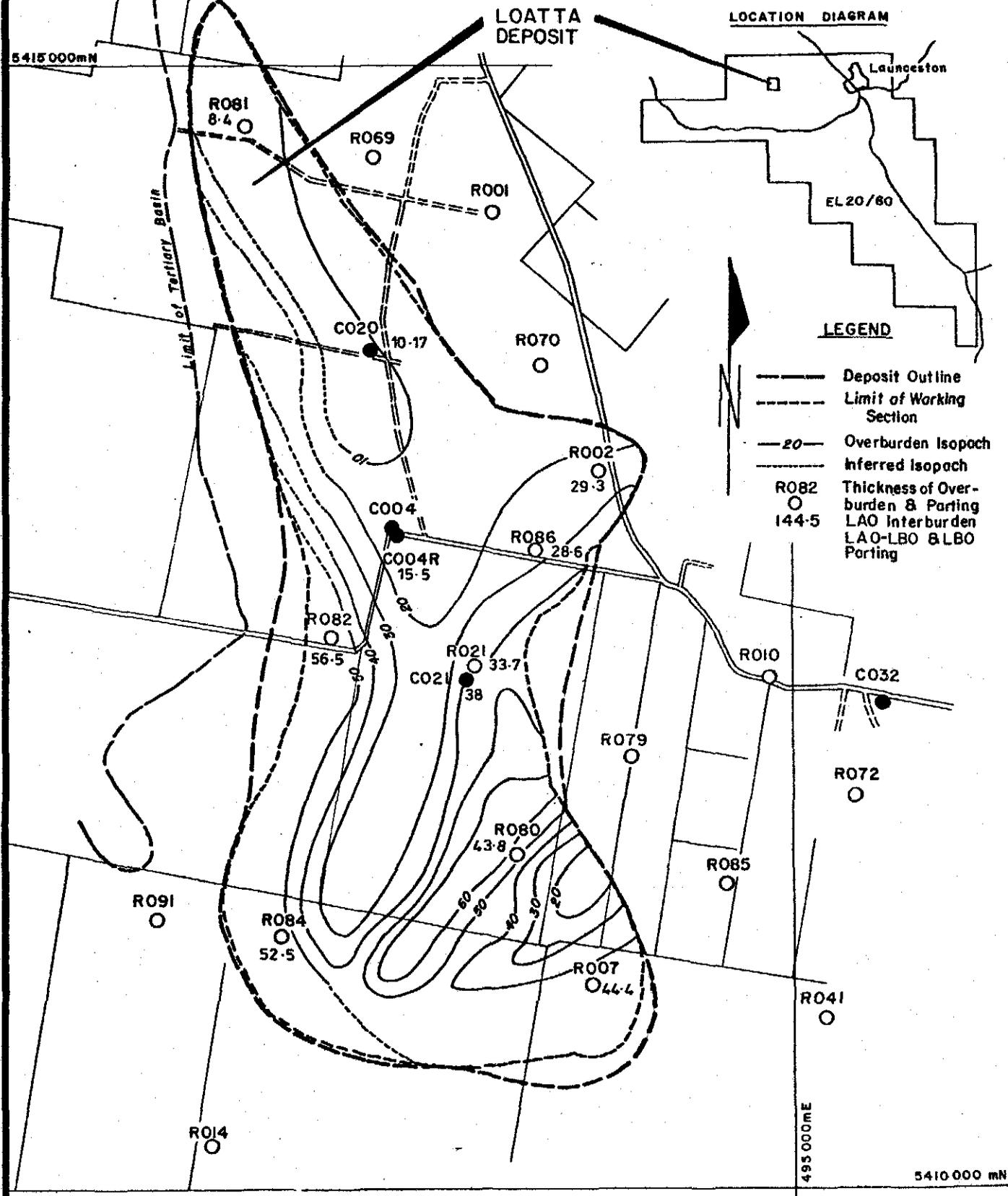


CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP CSR	
DRAWING / DATE		SCALE	
DRAWN A.Y. Oct.'82.		1 : 25 000	
CHECKED		FIGURE 37	
REVISED		DRAWING No 70020-78	
		EL 20/80 LAUNCESTON LOATTA DEPOSIT LAO OVERBURDEN ISOPACHS	

089

628090

5 cm



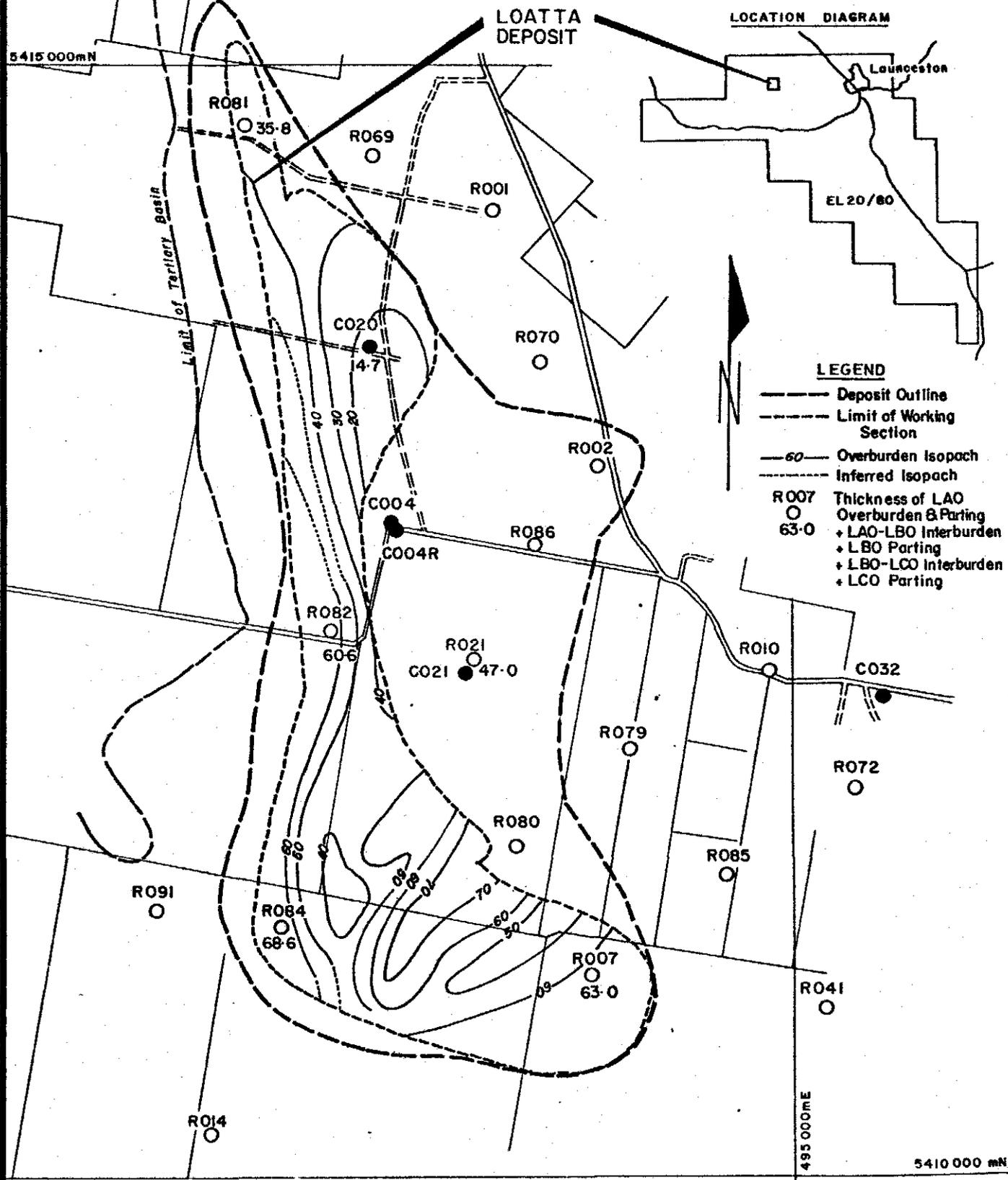
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 Kilometres

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP CSR	
DRAWING / DATE		SCALE	
DRAWN A.Y. Oct. '82		1 : 25 000	
CHECKED		FIGURE 38	
REVISED		DRAWING No 70020 -78	
		EL 20/80 LAUNCESTON LOATTA DEPOSIT LBO OVERBURDEN ISOPACHS	

090

628091

5 cm



Scale 1:25000
0 1.0
Kilometres

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP CSR	
DRAWING / DATE		SCALE	
DRAWN A.Y. Oct. '82		1 : 25 000	
CHECKED		FIGURE 39	
REVISED		DRAWING No 70020 -77	
		EL 20/80 LAUNCESTON LOATTA DEPOSIT LCO OVERBURDEN ISOPACHS	

091

628092

495 000 ME

5 cm

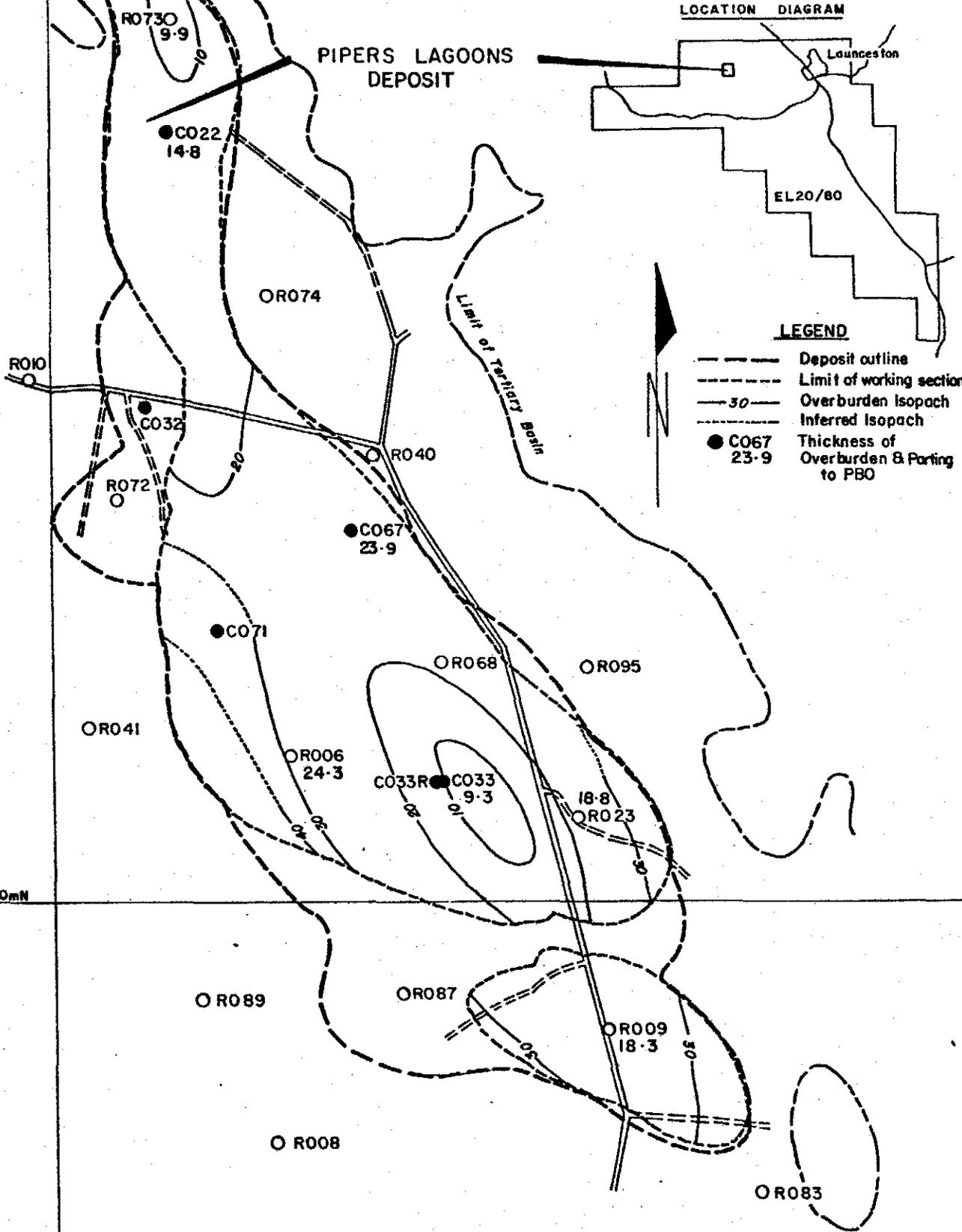
LOCATION DIAGRAM

Launceston

EL20/80

LEGEND

- Deposit outline
- Limit of working section
- Overburden Isopach
- Inferred Isopach
- C067 23.9
- Thickness of Overburden & Parting to PBO



5 410 000 mN

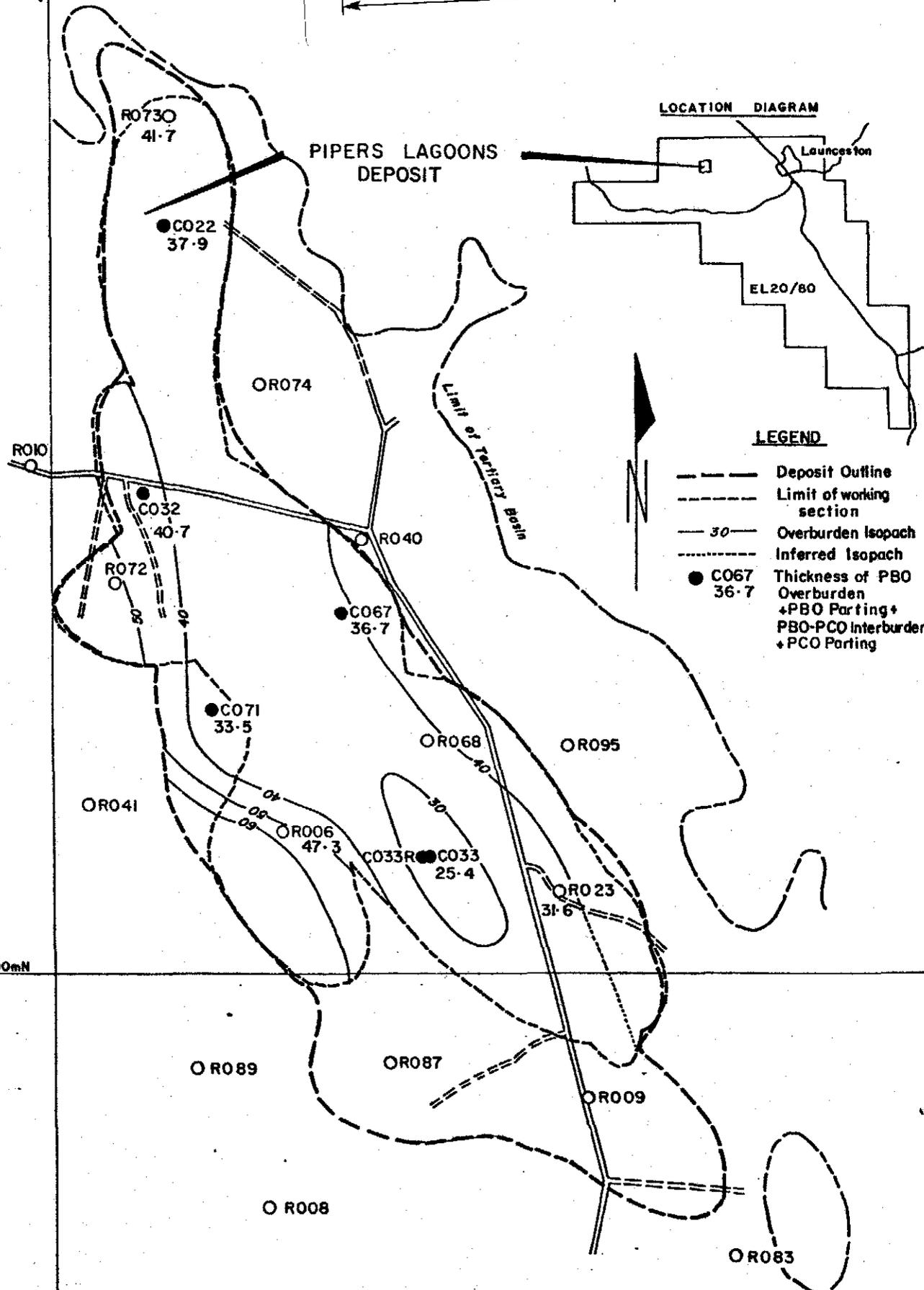
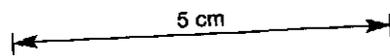
0 Scale 1:25000 1.0
Kilometres

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR	
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE	
DRAWN A.Y. Oct.'82		PIPERS LAGOONS DEPOSIT		1 : 25 000	
CHECKED		PBO - OVERBURDEN ISOPACHS		FIGURE 40	
REVISED				DRAWING No 70020-80	

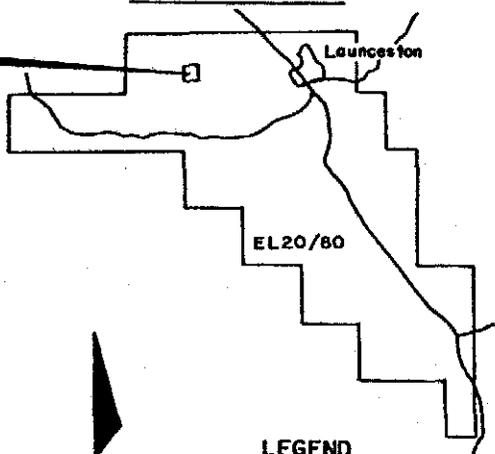
092

628093

498 000 mE



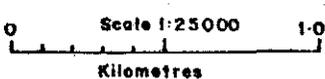
LOCATION DIAGRAM



LEGEND

- Deposit Outline
- - - Limit of working section
- 30 - Overburden Isopach
- - - Inferred Isopach
- C067 Thickness of PBO Overburden + PBO Parting + PBO-PCO Interburden + PCO Parting

5410000mN



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR	
DRAWING / DATE		EL 20/80 LAUNCESTON PIPERS LAGOONS DEPOSIT PCO OVERBURDEN ISOPACHS		SCALE	
DRAWN A.Y. Oct. '82				1 : 25 000	
CHECKED				FIGURE 41	
REVISED				DRAWING No 70020 - 81	

093

628094

5 cm

LOCATION DIAGRAM

SELBOURNE DEPOSIT

Launceston

RO 76

RO77

CO 64
12.35

CO 19
4.1

5410000 mN

RO78
70.7

RO120

Meander River

LEGEND

- Deposit Outline
- 10- Overburden Isopach
- - - Inferred Isopach
- RO78 Thickness of SAO
- 70.7 Overburden Parting

Scale 1:25000

0 1.0

Kilometres

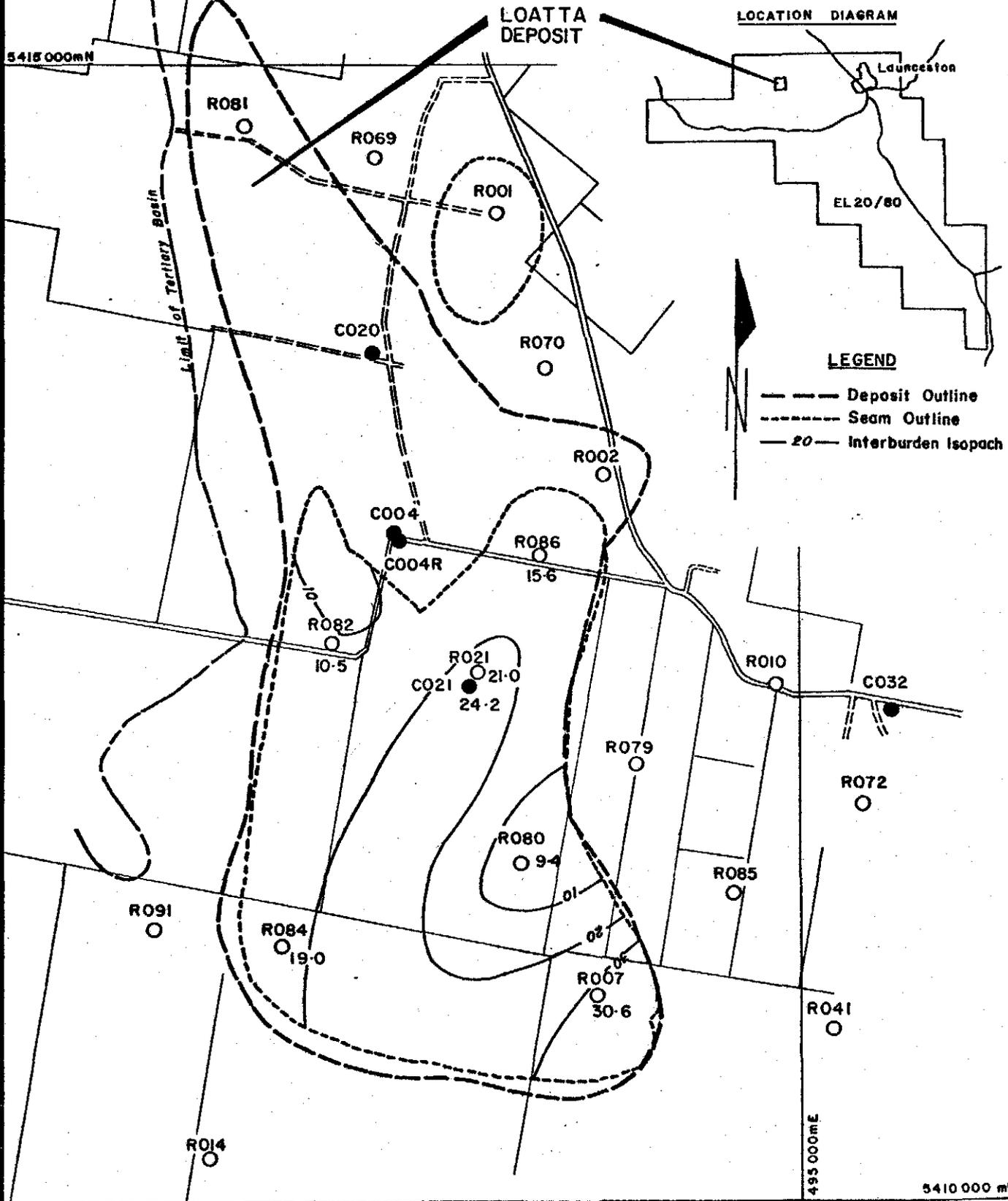
CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSIR
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE
DRAWN A.Y. Oct '82		SELBOURNE DEPOSIT		1 : 25 000
CHECKED		SAO OVERBURDEN ISOPACHS		FIGURE 42
REVISED				DRAWING No 70020-83

490 000 mE

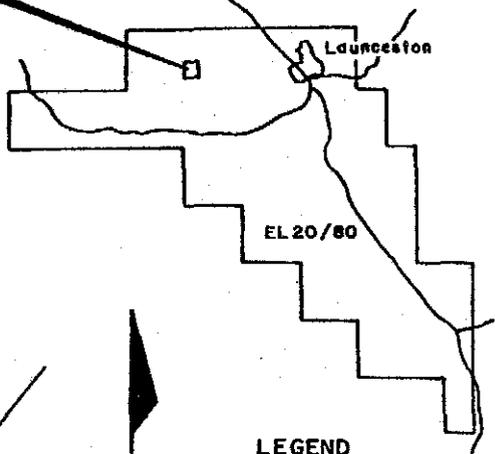
094

628095

5 cm



LOCATION DIAGRAM



LEGEND

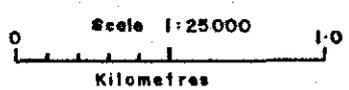
- Deposit Outline
- - - Seam Outline
- 20 - Interburden Isopach

5415 000mN

Limit of Tertiary Basin

495 000mE

5410 000 mN



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP CSR	
DRAWING / DATE		SCALE	
DRAWN A.Y. Oct. '82		1 : 25 000	
CHECKED		FIGURE 43	
REVISED		DRAWING No 70020-78	
		EL 20/80 LAUNCESTON LOATTA DEPOSIT LAO-LBO INTERBURDEN ISOPACHS	

095

628096

5 cm

5415 000mN

LOATTA DEPOSIT

LOCATION DIAGRAM

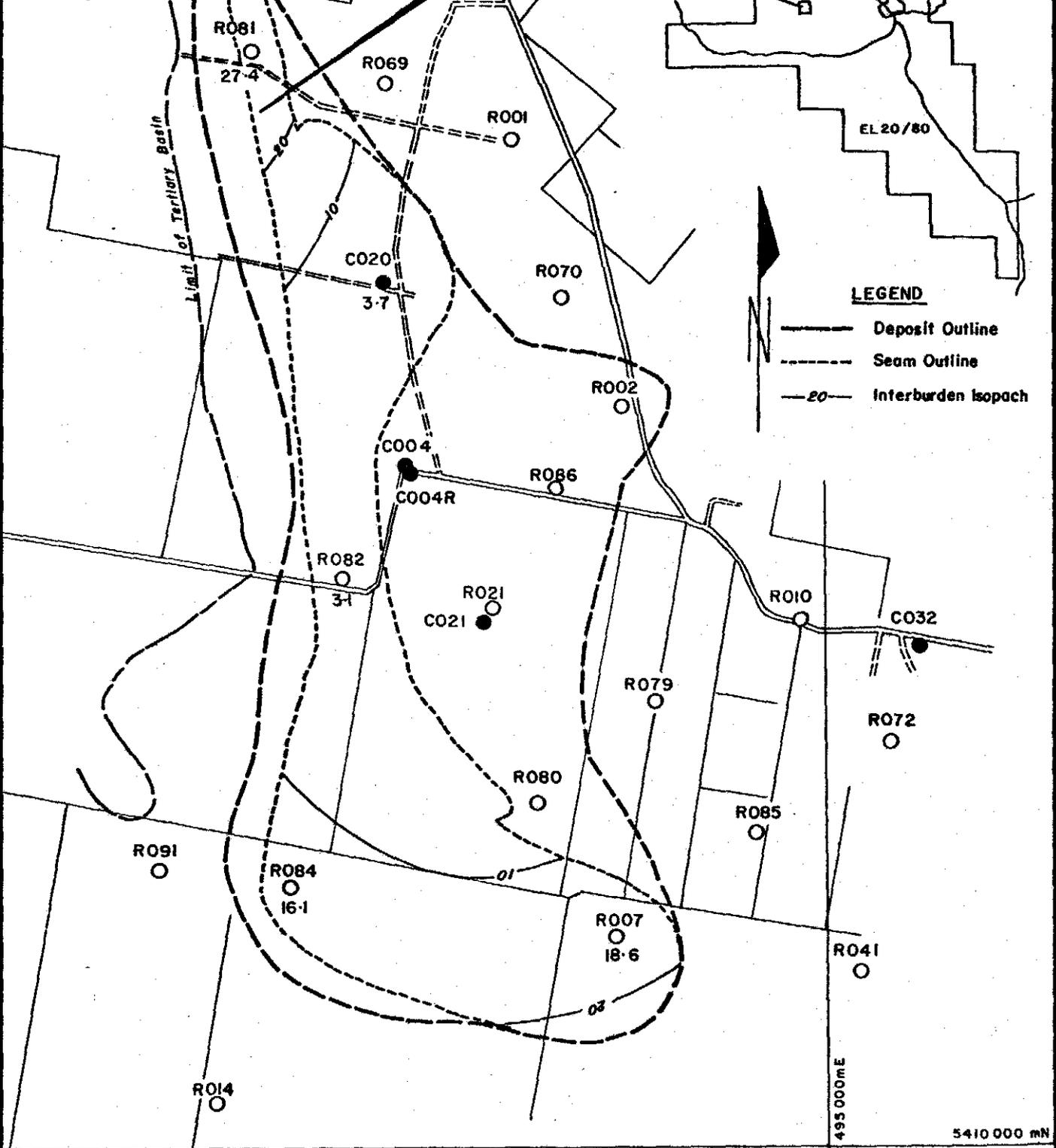
Launceston

EL 20/80

Limit of Tertiary Basin

LEGEND

- Deposit Outline
- - - Seam Outline
- 20- Interburden Isopach

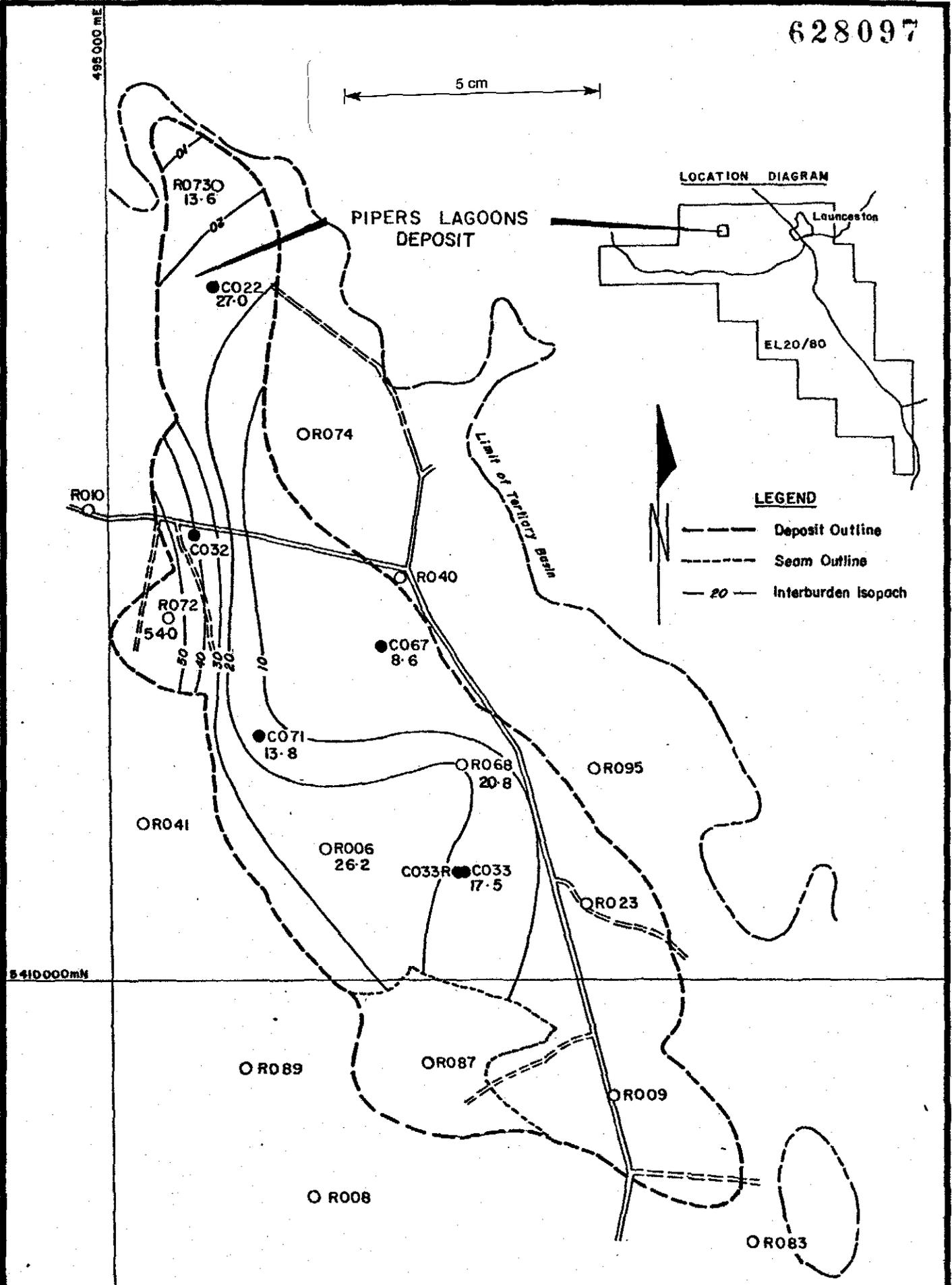


Scale 1:25000
 0 ————— 1.0
 Kilometres

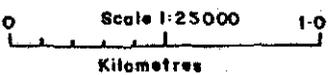
CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP CSR	
DRAWING / DATE		SCALE	
DRAWN A.Y. Oct. '82		1 : 25 000	
CHECKED		FIGURE 44	
REVISED		DRAWING No 70020 - 79	
		EL 20/80 LAUNCESTON LOATTA DEPOSIT LB0-LC0 INTERBURDEN ISOPACHS	

096

628097



8410000mN



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR	
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE	
DRAWN A.Y. Oct.'82		PIPERS LAGOONS DEPOSIT		1 : 25 000	
CHECKED		PBO-PCO INTERBURDEN ISOPACHS		FIGURE 45	
REVISED				DRAWING No 70020 - 82	

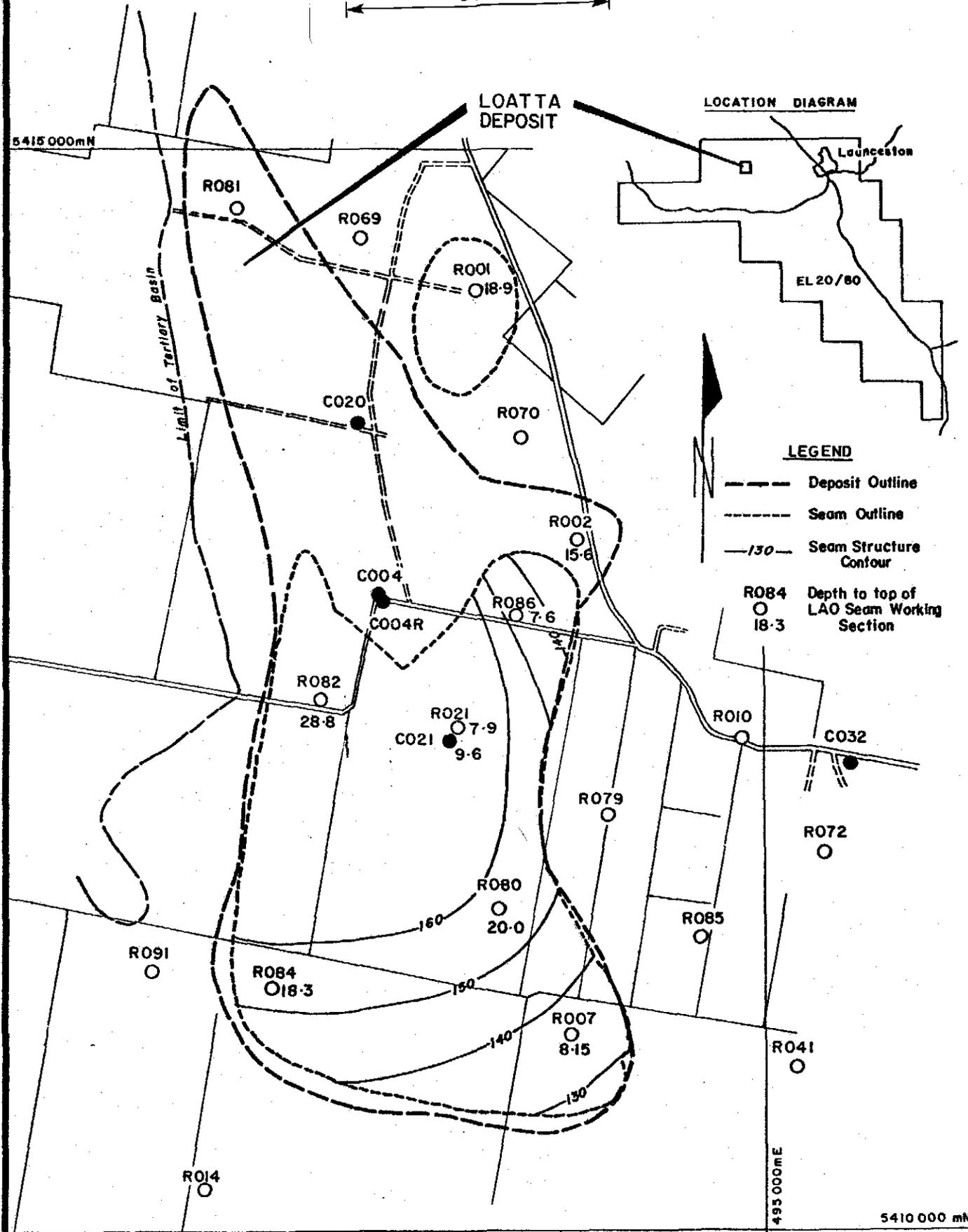
APPENDIX FIVE

STRUCTURE CONTOURS OF THE LOATTA,
PIPERS LAGOONS AND SELBOURNE DEPOSITS.

098

628099

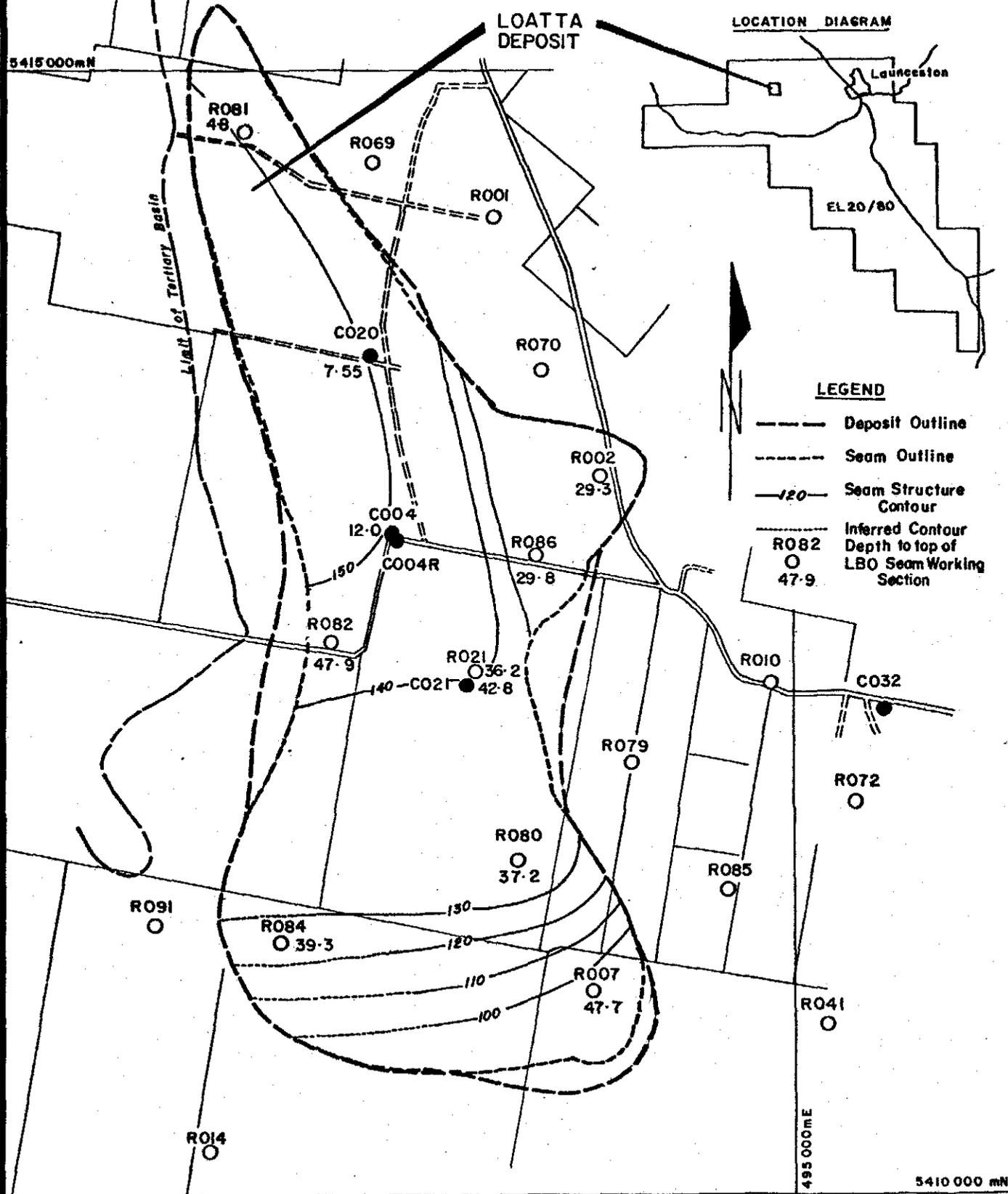
5 cm



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP	
DRAWING / DATE		SCALE	
DRAWN A.Y. Oct.'82		1 : 25 000	
CHECKED		FIGURE 46	
REVISED		DRAWING No 70020 - 84	
		EL 20/80 LAUNCESTON LOATTA DEPOSIT LAO SEAM STRUCTURE CONTOURS	

099

5 cm

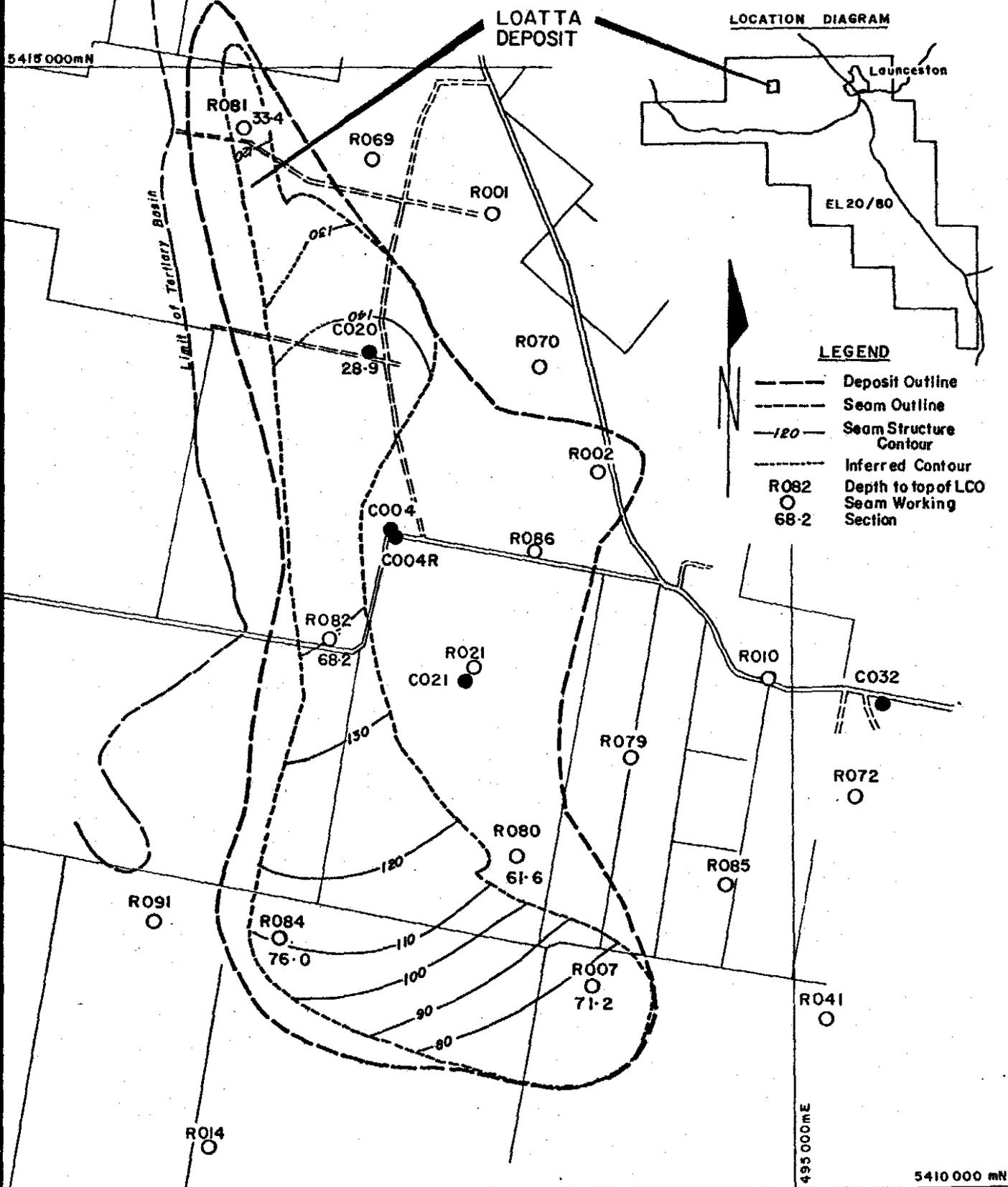


CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP CSIR	
DRAWING / DATE		SCALE	
DRAWN A.Y. Oct.'82		1 : 25 000	
CHECKED		FIGURE 47	
REVISED		DRAWING No 70020 - 85	
		EL 20/80 LAUNCESTON LOATTA DEPOSIT LBO SEAM STRUCTURE CONTOURS	

100

628101

5 cm



LOCATION DIAGRAM

Launceston

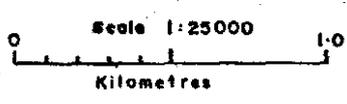
EL 20/80

LEGEND

- Deposit Outline
- Seam Outline
- 120- Seam Structure Contour
- Inferred Contour
- R082 Depth to top of LCO
- 68-2 Seam Working Section

493 000mE

5410 000 mN

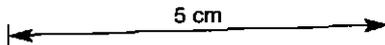


CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP CSR	
DRAWING / DATE		SCALE	
DRAWN A.Y. Oct. '82		1 : 25 000	
CHECKED		FIGURE 48	
REVISED		DRAWING No 70020 - 86	
		EL 20/80 LAUNCESTON LOATTA DEPOSIT LCO SEAM STRUCTURE CONTOURS	

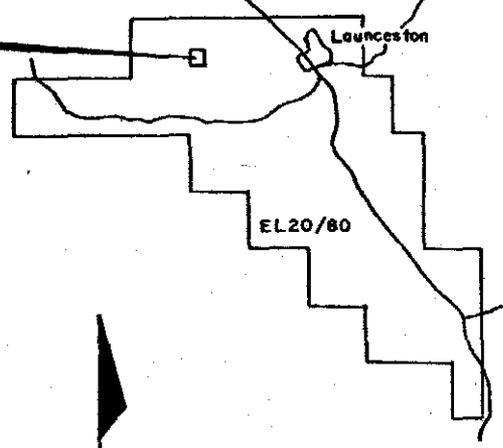
101

628102

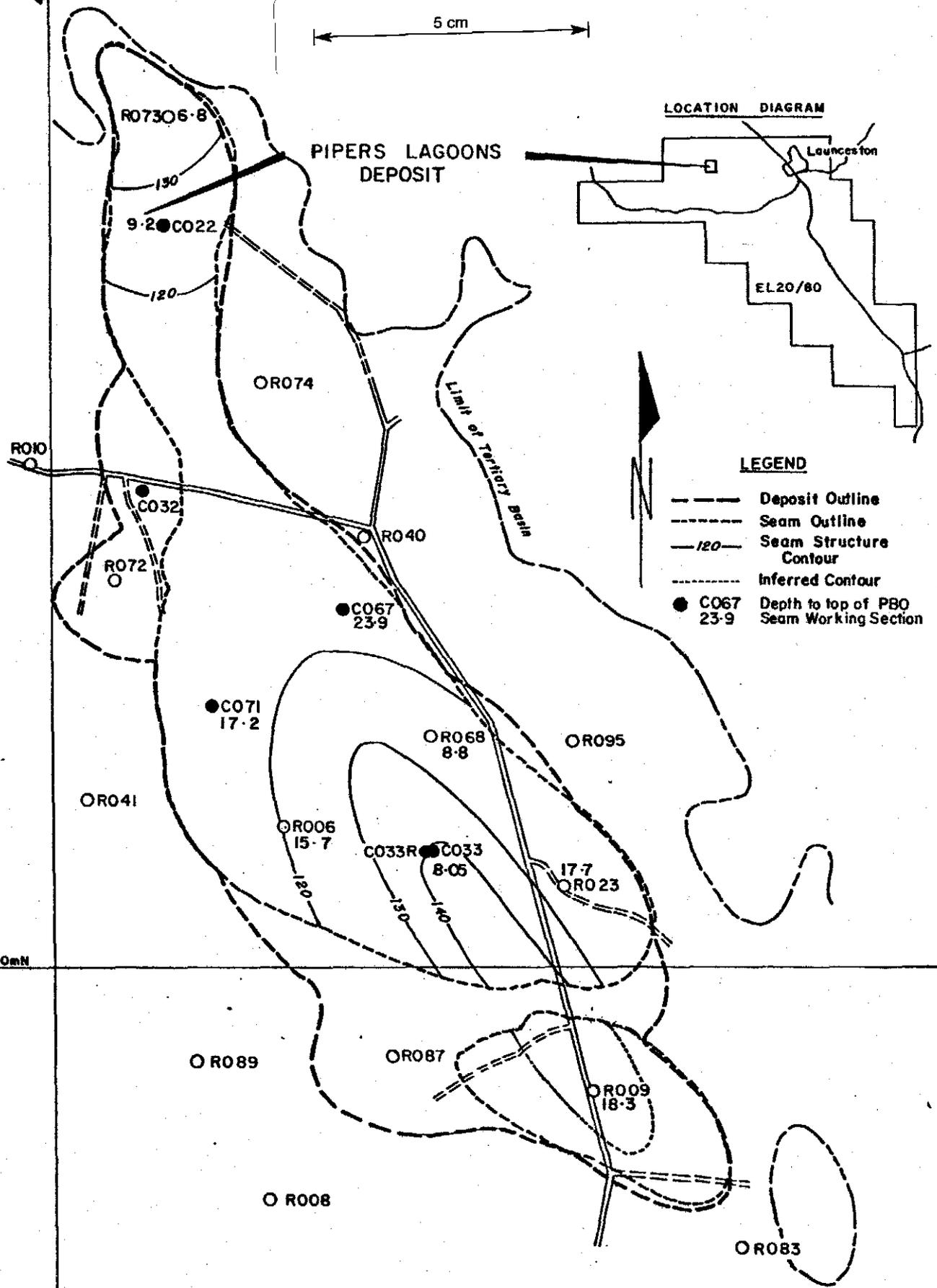
498000 ME



LOCATION DIAGRAM



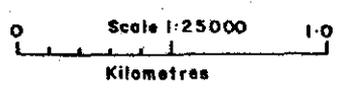
PIPERS LAGOONS DEPOSIT



LEGEND

- Deposit Outline
- - - Seam Outline
- 120- Seam Structure Contour
- - - Inferred Contour
- C067 Depth to top of PBO Seam Working Section

5410000mN

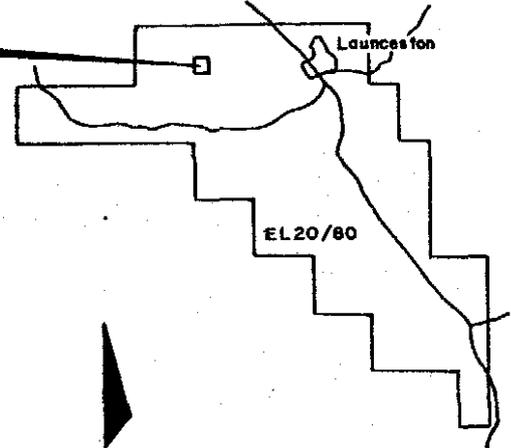


CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR	
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE	
DRAWN A. Y. Oct. 82		PIPERS LAGOONS DEPOSIT		1 : 25 000	
CHECKED		PBO SEAM STRUCTURE CONTOURS		FIGURE 49	
REVISED				DRAWING No 70020-87	

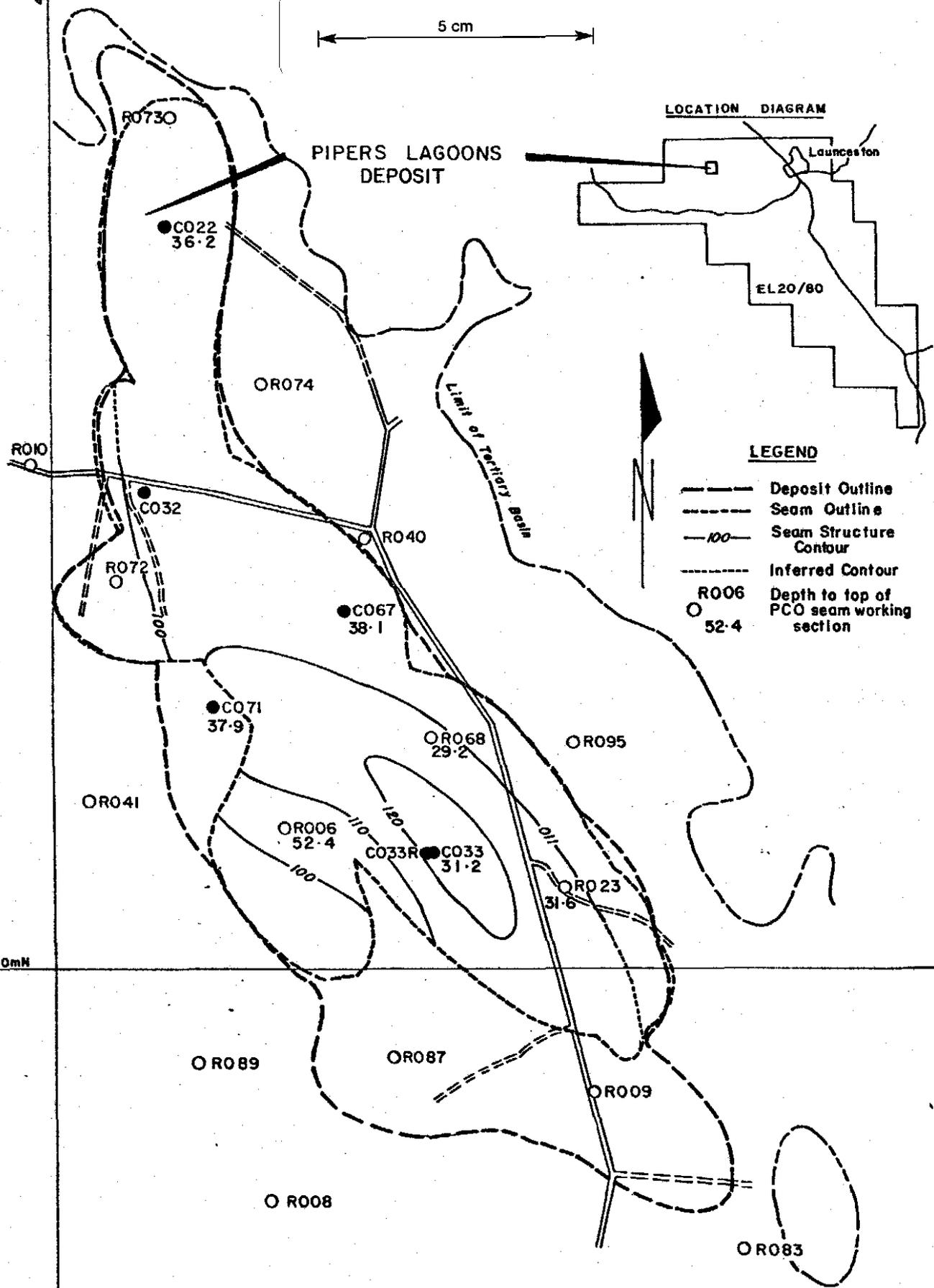
495000 ME

5 cm

LOCATION DIAGRAM



PIPERS LAGOONS DEPOSIT



LEGEND

- Deposit Outline
Seam Outline
Seam Structure Contour
Inferred Contour
Depth to top of PCO seam working section

5410000mH

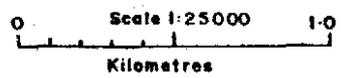


Table with drawing metadata including CSR Limited Coal Division, EXPLORATION AND EVALUATION GROUP, EL 20/80 LAUNCESTON, PIPERS LAGOONS DEPOSIT, PCO SEAM STRUCTURE CONTOURS, and drawing number 70020-88.

103

628104

5 cm

LOCATION DIAGRAM

SELBOURNE DEPOSIT

Launceston

RO 76

RO77

CO 64
10.8

CO 19
4.1

150

140

130

120

5410000 mN



RO78
70.7

Meander River

RO120

LEGEND

- Deposit Outline
- 130- Seam Structure Contours
- RO78 Depth to top of SAO
- 70.7 Seam Working Section

Scale 1:25000

0 1.0

Kilometres

490 000 mE

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CS17
DRAWING / DATE		EL 20/80 LAUNCESTON		SCALE
DRAWN A.Y. Oct. '82		SELBOURNE DEPOSIT		1 : 25 000
CHECKED		SAO SEAM STRUCTURE CONTOURS		FIGURE 51
REVISED				DRAWING No 70020 - 89

APPENDIX SIX

COPIES OF ENGLISH LOGS OF BOREHOLES.

387073

104

EL2080 LAUNCESTON. C0004

Easting: 493260.000
Northing: 5412960.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 165.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 43.14
Drilling Commenced: 03/12/81
Drilling Completed: 03/12/81
Inclination:
Azimuth:
Standing Water Level: 3.2

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: H. J. Stacpools
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter: 100
Cased Depths:
Core Barrel: Triefus Triple Barrel

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Drill Bits: Rollers

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080
LAUNCESTON

TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					4.00	4.00	CLAY	Mottled grey - white, weathered, stiff, high plasticity (clay), gradational base; Additional features include: yellow - red.
TE					6.50	2.50	CLAY	Mottled grey - yellow, weathered, firm, low plasticity (clay); Additional features include: brown; Bands include: CLAY, 00.10 m thick, base at 0005.50m, silty, light to medium yellow, weathered, firm, low plasticity (clay).
TE					8.40	1.90	CLAY	Light to medium purple - brown, firm, high plasticity (clay).
TE					10.38	1.80	CLAY	Carbonaceous, light to medium brown, firm, high plasticity (clay), common ligneous wisps.
				C2784	10.68	0.30	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C2784	10.72	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2784	10.85	0.13	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C2784	10.91	0.06	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C2784	11.03	0.12	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2784	11.10	0.07	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken, occasional ligneous wisps.
				C2784	11.21	0.11	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken, subfissile, abundant ligneous wisps.
				C2784	11.81	0.40	CLAY	Light to medium brown - grey, firm, slickensides on fracture, high plasticity (clay), common, oblique joints, angle of joints 50 degrees, good core - unbroken, gradational base, occasional ligneous wisps;
								LESS CARBONACEOUS TOWARDS BASE

EL2080 LAUNCESTON. C0004

105
628107

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2784	12.00	0.39	CLAY	Light to medium grey - brown, firm, slickensides on fracture, high plasticity (clay), common, oblique joints, angle of joints 50 degrees.
				C2784	12.01	0.01	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
					13.31	1.30	CORE LOSS	
CORE GROUND AWAY, BARREL NOT CLEARED OF BROKEN PVC CASING								
					----- TOP OF SEAM LB1 -----		13.31	
		LB1		C2785	13.38	0.07	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, fissile.
		LB1		C2785	13.52	0.14	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LB1		C2785	13.59	0.07	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, fissile.
		LB1		C2785	13.63	0.04	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB1		C2785	13.65	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, subfissile.
		LB1		C2785	13.72	0.07	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB1		C2785	13.74	0.02	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (clay), good core - unbroken.
		LB1		C2785	13.89	0.15	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, sharp planar base, beds dip at 00 degrees.
		LB1		C2785	13.94	0.05	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 03 degrees.
		LB1		C2785	14.07	0.13	LIGNITE	Dark brown, firm, friable, good core - unbroken, gradational base.
		LB1		C2785	14.14	0.07	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, subfissile, gradational base.

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628108

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080
LAUNCESTON

TENEMENT 2060

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB1		C2785	14.33	0.19	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common woody fragments; Bands include: LIGNEOUS CLAY, 00.05 m thick, base at 0014.28m, dark brown, firm, high plasticity (organic), good core - unbroken.
		LB1		C2785	14.45	0.12	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB1		C2786	14.53	0.08	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C2786	14.57	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB1		C2786	14.68	0.11	LIGNITE	Dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 05 degrees.
		LB1		C2786	14.69	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 05 degrees.
		LB1		C2786	14.75	0.06	LIGNITE	Dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 05 degrees.
		LB1		C2787	14.81	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 05 degrees.
		LB1		C2787	14.88	0.07	LIGNITE	Dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 02 degrees.
		LB1		C2787	14.92	0.04	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, gradational base.
		LB1		C2787	15.26	0.34	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, sharp planar base, beds dip at 00 degrees.
		LB1		C2788	15.30	0.04	LIGNEOUS CLAY	Dark brown, firm, friable, good core - unbroken.
		LB1		C2788	15.35	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown - grey, firm, friable, good core - unbroken.
		LB1		C2788	15.45	0.10	INFERIOR LIGNITE	Clayey, medium to dark grey - brown, firm, friable, good core - unbroken; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic), good core - unbroken.

EL2080 LAUNCESTON. C0004

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628109

LAUNGESTON.

GEOLOGICAL LOG REPORT

ATP EL2080
LAUNGESTON

TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB1		C2788	15.68	0.23	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp planar base, beds dip at 00 degrees.
		LB1		C2788	15.83	0.15	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB1		C2789	15.90	0.07	CLAY	Dark brown - grey, firm, low plasticity (clay), good core - unbroken.
		LB1		C2789	15.93	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB1		C2789	15.95	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB1		C2789	15.98	0.03	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB1		C2789	16.00	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB1		C2789	16.10	0.10	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB1		C0004	16.15	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
		LB1		C0004	16.24	0.09	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB1		C0004	16.30	0.06	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, subfissile.
		LB1		C0004	16.32	0.02	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB1		C2790	16.36	0.04	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LB1		C2790	16.37	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, gradational base.
		LB1		C2790	16.44	0.07	LIGNEOUS CLAY	Dark brown - grey, firm, friable, good core - unbroken, subfissile.
		LB1		C2790	16.47	0.03	INFERIOR LIGNITE	Clayey, dark black - brown, firm, friable, good core - unbroken.
		LB1		C2790	16.50	0.03	LIGNEOUS CLAY	Dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		LB1		C2790	16.55	0.05	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB1		C2790	16.60	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.

EL2080 LAUNGESTON. C0004

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB1		C2790	16.65	0.05	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		LB1		C2790	16.68	0.03	LIGNEOUS CLAY	Dark grey - brown, firm, low plasticity (clay), good core - unbroken.
		LB1		C2790	16.75	0.07	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		LB1		C2790	16.86	0.11	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C2790	16.90	0.04	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LB1		C2790	17.08	0.18	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
BASE OF SEAM LB1					17.08	3.77		
				C2791	17.13	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C2791	17.20	0.07	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken.
				C2791	17.75	0.55	CLAY	Ligneous, medium to dark brown, firm, high plasticity (organic), good core - unbroken.
				C2791	17.77	0.02	INFERIOR LIGNITE	Clayey, medium to dark brown - grey, firm, friable, good core - unbroken.
TOP OF SEAM LB2					17.77			
		LB2		C2792	17.82	0.05	LIGNITE	Dark brown, firm, friable, good core - unbroken, sharp irregular base.
		LB2		C2792	17.85	0.03	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
		LB2		C2792	17.86	0.01	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB2		C2792	17.88	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken.

EL2080 LAUNCESTON. C0004

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080 TENEMENT 2080
LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB1		C2790	16.65	0.05	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		LB1		C2790	16.68	0.03	LIGNEOUS CLAY	Dark grey - brown, firm, low plasticity (clay), good core - unbroken.
		LB1		C2790	16.75	0.07	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		LB1		C2790	16.86	0.11	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C2790	16.90	0.04	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LB1		C2790	17.08	0.18	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

BASE OF SEAM LB1					17.08	3.77		

				C2791	17.13	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C2791	17.20	0.07	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken.
				C2791	17.75	0.55	CLAY	Ligneous, medium to dark brown, firm, high plasticity (organic), good core - unbroken.
				C2791	17.77	0.02	INFERIOR LIGNITE	Clayey, medium to dark brown - grey, firm, friable, good core - unbroken.

TOP OF SEAM LB2					17.77			

		LB2		C2792	17.82	0.05	LIGNITE	Dark brown, firm, friable, good core - unbroken, sharp irregular base.
		LB2		C2792	17.85	0.03	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
		LB2		C2792	17.86	0.01	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB2		C2792	17.88	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken.

EL2080 LAUNCESTON. C0004

628112

110

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C2792	17.99	0.11	LIGNITE	Dark brown, firm, friable, good core - unbroken; Bands include: INFERIOR LIGNITE, medium to dark brown - grey, firm, friable, good core - unbroken.
		LB2		C2792	18.02	0.03	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.
		LB2		C2792	18.09	0.07	CLAY	Light to medium brown, firm, low plasticity (clay), good core - unbroken, gradational base.
		LB2		C2792	18.12	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB2		C2792	18.14	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken.
		LB2		C2792	18.38	0.24	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB2		C2792	18.40	0.02	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken, sharp oblique base, beds dip at 05 degrees.
		LB2		C2792	18.51	0.11	CLAY	Ligneous, medium to dark brown, good core - unbroken, sharp oblique base, beds dip at 10 degrees.
		LB2		C2793	18.58	0.07	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB2		C2793	18.61	0.03	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, gradational base.
		LB2		C2793	18.69	0.08	LIGNEOUS CLAY	Medium to dark brown - grey, firm, friable, good core - unbroken, sharp oblique base, beds dip at 15 degrees.
		LB2		C2793	18.83	0.14	LIGNITE	Dark brown, firm, friable, good core - unbroken; RARE CLAY LENSES
		LB2		C0005	18.86	0.03	LIGNEOUS CLAY	Dark brown - grey, firm, friable, good core - unbroken.
		LB2		C0005	18.98	0.12	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB2		C2794	19.01	0.03	LIGNITE	Dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C2794	19.08	0.07	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, friable, good core - unbroken.
		LB2		C2794	19.18	0.10	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		LB2		C2794	19.20	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C2794	19.22	0.02	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		LB2		C2794	19.24	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C2794	19.28	0.04	INFERIOR LIGNITE	Clayey, medium to dark brown - grey, firm, friable, good core - unbroken.
		LB2		C2794	19.37	0.09	INFERIOR LIGNITE	Clayey, medium to dark brown - grey, firm, friable, good core - unbroken, sharp oblique base, beds dip at 05 degrees.
		LB2		C2794	19.40	0.03	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		LB2		C2794	19.49	0.09	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.
		LB2		C2795	19.56	0.07	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C2795	19.60	0.04	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 05 degrees, abundant woody fragments.
		LB2		C2795	19.66	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C2795	19.78	0.12	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees.
		LB2		C2795	19.88	0.10	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 05 degrees.

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STRAT NAME	SEQ NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C2795	19.91	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C2795	19.94	0.03	CLAY	Ligneous, medium to dark brown, firm, friable, good core - unbroken.
		LB2		C2795	20.01	0.07	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken, sharp oblique base, beds dip at 05 degrees.
		LB2		C2795	20.05	0.04	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 10 degrees.
		LB2		C2795	20.19	0.13	INFERIOR LIGNITE	Clayey, medium to dark brown - grey, firm, friable, good core - unbroken.
		LB2		C2795	20.38	0.20	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		LB2		C2795	20.40	0.02	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB2		C2795	20.42	0.02	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken.
		LB2		C2795	20.49	0.07	LIGNEOUS CLAY	Dark brown - grey, firm, low plasticity (clay), good core - unbroken.
		LB2		C2796	20.54	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown - grey, firm, friable, good core - unbroken.
		LB2		C2796	20.57	0.03	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB2		C2796	20.60	0.03	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.
		LB2		C2796	20.87	0.27	LIGNITE	Dark brown, firm, friable, good core - unbroken, occasional resin aggregates; Bands include: LIGNEOUS CLAY, dark brown - grey, firm, low plasticity (clay), good core - unbroken.
		LB2		C2796	21.15	0.28	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken; Bands include: LIGNEOUS CLAY, dark brown - grey, firm, low plasticity (clay), good core - unbroken.
		LB2		C2796	21.20	0.05	LIGNITE	Dark brown, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C2796	21.25	0.05	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB2		C2796	21.30	0.05	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken.
		LB2		C2797	21.48	0.18	LIGNITE	Dark brown - black, firm, friable, good core - unbroken; Bands include: LIGNITE, clayey, dark brown, firm, friable, good core - unbroken.
		LB2		C2797	21.52	0.04	LIGNEOUS CLAY	Medium to dark brown - grey, firm, friable, good core - unbroken.
		LB2		C2797	21.57	0.05	LIGNITE	Dark brown, firm, friable, good core - unbroken, subfissile.
		LB2		C0006	21.64	0.07	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0006	21.75	0.11	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB2		C2798	21.78	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB2		C2798	21.82	0.04	LIGNITE	Medium to dark brown, firm, friable, good core - unbroken.
		LB2		C2798	21.91	0.09	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C2798	22.04	0.13	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB2		C2799	22.10	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB2		C2799	22.13	0.03	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, high plasticity (organic), good core - unbroken.
		LB2		C2799	22.16	0.03	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken.
		LB2		C2799	22.27	0.11	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C2800	22.64	0.37	LIGNITE	Dark brown, firm, friable, good core - unbroken, sharp planar base, beds dip at 00 degrees.
		LB2		C2800	22.66	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C2800	22.76	0.10	LIGNITE	Dark brown, firm, friable, good core - unbroken.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C2800	22.86	0.10	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, gradational base.
		LB2		C2800	22.93	0.07	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C2801	22.95	0.02	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C2801	23.04	0.09	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB2		C2801	23.07	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C2801	23.12	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, gradational base.
		LB2		C2801	23.25	0.13	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, gradational base, beds dip at 10 degrees.
		LB2		C2802	23.28	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 10 degrees.
		LB2		C2802	23.54	0.26	LIGNITE	Dark brown - black, firm, friable, good core - unbroken; CONTAINS RARE CLAY LENSES
		LB2		C0007	23.49	0.15	LIGNITE	Dark brown, firm, friable, good core - unbroken; FIBROUS LIGNITE
		LB2		C0007	23.83	0.14	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 05 degrees; INCREASED CLAY CONTENT TOWARDS BASE
		LB2		C0007	23.88	0.05	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 05 degrees.
		LB2		C0007	23.90	0.02	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C0007	24.24	0.34	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, sharp irregular base, common resin aggregates; Additional features include: occasional woody fragments.
BASE OF SEAM LB2					24.24	6.47		
				C2803	24.28	0.04	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C2803	24.39	0.11	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2803	24.42	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
				C2803	24.45	0.03	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, sharp oblique base, beds dip at 15 degrees.
				C2803	24.49	0.04	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C2803	24.57	0.08	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2803	24.63	0.06	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C2803	24.65	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken.
				C2803	24.70	0.05	LIGNITE	Dark brown, firm, friable, good core - unbroken.
				C2803	24.77	0.07	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken.
				C2803	24.81	0.04	INFERIOR LIGNITE	Clayey, medium to dark grey - brown, firm, friable, good core - unbroken.
				C2804	24.86	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2804	24.91	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, gradational base.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2804	24.96	0.05	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C2804	24.99	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C2804	25.11	0.12	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken, gradational base.
				C2804	25.13	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C2804	25.19	0.06	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken.
				C2804	25.26	0.07	LIGNEOUS CLAY	Medium to dark brown, firm, friable, good core - unbroken.
				C2804	25.32	0.06	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C2804	25.34	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2804	25.36	0.02	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C2804	25.39	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees.
				C2804	25.42	0.03	CLAY	Ligneous, light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2804	25.45	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken.
				C2804	25.55	0.10	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C2804	25.73	0.18	INFERIOR LIGNITE and CLAY	Interbedded 80:20, INFERIOR LIGNITE: clayey, dark brown, firm, friable, good core - unbroken; CLAY: ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C2804	25.78	0.05	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 15 degrees.
				C2804	25.83	0.05	LIGNITE	Dark brown, firm, friable, good core - unbroken.

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TENEMENT 2050

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2804	26.09	0.26	LIGNEOUS CLAY and INFERIOR LIGNITE	Interbedded 60:40. LIGNEOUS CLAY: medium to dark brown, firm, high plasticity (clay), good core - unbroken; INFERIOR LIGNITE: clayey, dark brown, firm, friable, good core - unbroken.
				C2804	26.20	0.11	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, abundant ligneous wisps.
				----- TOP OF SEAM LB3		26.20		
		LB3		C2805	26.54	0.34	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB3		C2806	27.24	0.70	LIGNITE and INFERIOR LIGNITE	Interbedded 80:20. LIGNITE: dark brown, firm, friable, good core - unbroken, common woody fragments; INFERIOR LIGNITE: clayey, dark brown, firm, friable, good core - unbroken.
		LB3		C2806	27.38	0.14	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB3		C2806	27.44	0.06	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken.
		LB3		C2806	27.51	0.07	CLAY	Ligneous, light to medium brown - grey, firm, good core - unbroken, abundant bioturbation.
		LB3		C2806	27.56	0.05	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LB3		C2807	27.59	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C2807	27.80	0.21	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (clay), good core - unbroken.
		LB3		C2807	27.85	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C2807	28.05	0.20	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional woody fragments;
								LENSES OF LIGNEOUS CLAY, DARK BROWN
								FIRM HIGHLY PLASTIC
		LB3		C2808	28.26	0.21	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB3		C2808	28.37	0.11	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken; FIBROUS LIGNITE
		LB3		C0008	28.39	0.02	LIGNEOUS CLAY	Dark brown - grey, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 20 degrees.
		LB3		C0008	28.57	0.18	LIGNITE	Dark brown, firm, friable, good core - unbroken; Bands include: INFERIOR LIGNITE, dark brown, firm, friable, good core - unbroken.
		LB3		C2809	28.74	0.17	LIGNEOUS CLAY	Interbedded 80:20; Bands include: *** ERROR TRANSLATING LEGEND FOR THIS DATA ***
		LB3		C2809	28.78	0.04	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees.
		LB3		C2810	28.82	0.04	LIGNEOUS CLAY	Dark brown - grey, firm, low plasticity (clay), good core - unbroken.
		LB3		C2810	28.89	0.07	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees.
		LB3		C2810	29.06	0.17	LIGNEOUS CLAY and CLAY	Interbedded 80:20. LIGNEOUS CLAY: mottled brown, firm, high plasticity (clay), good core - unbroken; CLAY: ligneous, mottled brown, firm, high plasticity (clay), good core - unbroken.
		LB3		C0009	29.19	0.13	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LB3		C0009	29.47	0.28	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB3		C0009	29.50	0.03	LIGNEOUS CLAY	Dark brown, firm, slickensides on fracture, low plasticity (organic), sparse, oblique joints, angle of joints 40 degrees, good core - unbroken.
		LB3		C0009	29.66	0.16	LIGNITE	Dark brown, firm, friable, good core - unbroken, occasional resin aggregates.

BASE OF SEAM LB3 29.66 3.46

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2811	29.70	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (clay), good core - unbroken.
				C2811	29.74	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, occasional resin aggregates.
				C2811	29.89	0.15	LIGNEOUS CLAY	Dark brown, stiff, high plasticity (clay), good core - unbroken, occasional resin aggregates.
				C2811	29.94	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C2811	30.27	0.33	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken.
				C2811	30.32	0.05	INFERIOR LIGNITE	Dark brown, firm, friable, good core - unbroken, abundant bioturbation; Additional features include: occasional resin aggregates.
				C2811	30.46	0.14	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C2811	30.59	0.13	LIGNITE	Dark brown, firm, friable, good core - unbroken, common bioturbation.
				C2811	30.68	0.09	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken.
				C2811	30.73	0.05	INFERIOR LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C2812	30.76	0.03	CORE LOSS	
				C2812	30.79	0.03	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, common bioturbation.
				C2812	31.05	0.26	LIGNEOUS CLAY	Dark brown, firm, low plasticity (clay), good core - unbroken, common bioturbation.
				C2812	31.10	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
				C2812	31.12	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2812	31.23	0.11	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 20 degrees, common bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2812	31.53	0.30	CLAY	Light to medium brown, firm, low plasticity (clay), good core - unbroken, subfissile, sharp oblique base, beds dip at 15 degrees, common bioturbation.
				C2812	31.57	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base.
				C2812	31.63	0.06	LIGNITE	Dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 20 degrees, occasional bioturbation.
				C2812	31.84	0.21	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, occasional bioturbation.
				C2812	31.87	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, occasional bioturbation.
				C2812	31.93	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 20 degrees, occasional bioturbation.
				C2813	32.01	0.08	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 10 degrees.
				C2813	32.17	0.16	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 10 degrees, occasional ligneous wisps.
				C2813	32.24	0.07	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 05 degrees.
				C2813	32.26	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken.
				C2813	32.33	0.07	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken.
				C2813	32.38	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.
				C2813	32.51	0.13	CLAY	Ligneous, medium to dark brown, stiff, high plasticity (clay), good core - unbroken.

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ATP EL2080
LAUNCESTON

TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2813	32.82	0.31	LIGNITE and INFERIOR LIGNITE	Interbedded 60:40. LIGNITE: woody textured, dark brown, firm, friable, good core - unbroken; INFERIOR LIGNITE: dark brown, firm, friable, good core - unbroken.
				C2813	33.10	0.28	CLAY and INFERIOR LIGNITE	Interbedded 60:40. CLAY: ligneous, medium to dark brown - grey, stiff, high plasticity (clay), good core - unbroken; INFERIOR LIGNITE: clayey, dark brown - black, firm, friable, good core - unbroken.
				C2814	33.51	0.41	LIGNITE	Medium to dark brown - black, firm, friable, good core - unbroken.
				C2814	33.59	0.08	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.
				C2814	33.74	0.15	LIGNITE	Dark brown, firm, friable, good core - unbroken.
				R	37.17	3.43	NO RECORD	
				C2815	37.41	0.24	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
				C2815	37.61	0.20	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.
				C2815	38.28	0.67	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.
				C2815	38.37	0.09	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.
				C2816	38.66	0.29	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.
				C2816	39.01	0.35	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, occasional resin aggregates.
				C2816	39.14	0.13	CLAY	Ligneous, medium to dark grey - brown, firm, low plasticity (clay), good core - unbroken, common bioturbation.
				C2816	39.29	0.15	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, common bioturbation.
				C2816	39.57	0.28	CLAY	Ligneous, light to medium brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2817	39.64	0.07	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation.
				C2817	39.67	0.03	LIGNITE	Dark brown, firm, friable, good core - unbroken, common bioturbation.
				C2817	39.73	0.06	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				C2817	39.79	0.06	LIGNITE	Dark brown, firm, friable, good core - unbroken, common bioturbation.
				C2817	39.82	0.03	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C2817	39.89	0.07	LIGNITE	Dark brown, firm, friable, good core - unbroken, common bioturbation.
				C2817	39.90	0.01	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C2817	39.96	0.06	LIGNITE	Dark brown, firm, friable, good core - unbroken, common bioturbation.
				C2818	40.04	0.08	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional resin aggregates.
				C2818	40.11	0.07	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, fissile, occasional resin aggregates.
				C2818	40.16	0.05	LIGNITE	Dark brown, firm, friable, good core - unbroken, occasional resin aggregates.
				C2818	40.29	0.13	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2818	40.32	0.03	LIGNEOUS CLAY	Medium to dark brown - grey, firm, high plasticity (organic), good core - unbroken, subfissile.
				C2819	40.41	0.09	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C2819	40.42	0.01	CLAY	Ligneous, mottled brown - grey, firm, high plasticity (clay), good core - unbroken, subfissile.
				C2819	40.46	0.04	LIGNEOUS CLAY	Medium to dark brown - grey, firm, friable, good core - unbroken.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2819	40.57	0.11	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C0010	40.63	0.06	LIGNEOUS CLAY	Dark brown, firm, friable, good core - unbroken.
				C0010	40.69	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C0010	40.76	0.07	LIGNEOUS CLAY	Dark brown - grey, firm, friable, good core - unbroken.
				C0010	40.89	0.13	LIGNITE	Dark brown, firm, friable, good core - unbroken.
				C0010	41.04	0.15	LIGNEOUS CLAY	Dark grey - brown, firm, high plasticity (clay), good core - unbroken; CONTAINS LOGS OF WOOD
				C0010	41.10	0.06	LIGNITE	Dark brown, firm, friable, good core - unbroken.
				C0010	41.32	0.22	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken.
				C2820	41.39	0.07	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C2820	41.42	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2820	41.45	0.03	INFERIOR LIGNITE	Clayey, medium to dark brown - yellow, firm, friable, good core - unbroken.
				C2820	41.54	0.09	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2820	41.57	0.03	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken.
				C2820	42.53	0.96	CLAY	Lithic, light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2820	42.69	0.16	CLAY	Mottled brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C2820	42.86	0.17	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2820	43.07	0.21	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments, siderite, secondary, nodules.
				C2820	43.14	0.07	SAND	Ligneous, medium to dark brown, low strength, friable, good core - unbroken, occasional siderite, secondary, nodules.
TE					44.10	0.96	INFERIOR LIGNITE	Medium to dark brown - black, soft, friable; Bands include: INFERIOR LIGNITE, clayey, medium to dark brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					46.00	1.90	CLAY	Carbonaceous, light to medium brown, soft, low plasticity (clay); Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic);
TRIPPED OUT OF HOLE AT 45.00 METRES 9/10/81								
TE					46.40	0.40	INFERIOR LIGNITE	Medium to dark brown, firm, friable.
TE					47.60	1.20	CLAY	Carbonaceous, light to medium brown, soft, low plasticity (clay).
TE					49.50	1.90	CLAY	Light white - yellow, very soft, low plasticity (clay).
TE					49.80	0.30	SIDERITE	Light to medium brown - green, high strength, tough.
TE					50.30	0.50	CLAY	Light white - yellow, very soft, low plasticity (clay).
TE					50.80	0.50	SIDERITE and CLAY	Interbedded 50:50, SIDERITE: light to medium brown, low strength, brittle; CLAY: light white - yellow, very soft, low plasticity (clay).
TE					54.60	3.80	CLAY	Mottled white - cream, soft, low plasticity (clay); Additional features include: yellow; Bands include: SIDERITE, 00.10 m thick, base at 0052.50m, light to medium brown, low strength, brittle.
TE					58.40	3.80	CLAY and CLAY	Interbedded 70:30, CLAY: carbonaceous, light to medium grey - brown, soft, low plasticity (clay), common woody fragments; CLAY: mottled white - cream, soft, low plasticity (clay); Additional features include: yellow.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					58.80	0.40	SIDERITE	Light to medium brown, high strength, tough.
TE					59.80	1.00	SAND	Quartzose, clayey, light grey, medium dense, non-plastic, fine grained.
TE					63.30	3.50	CLAY	Sandy, quartzose, light to medium grey, firm, high plasticity (clay), very fine grained.
TE					64.80	1.50	SAND	Quartzose, clayey, light grey, medium dense, non-plastic, fine grained.
TE					65.00	0.20	SIDERITE	Light to medium brown, high strength, tough;
CIRCULATION POOR BETWEEN 61.8 AND 65.00 METRES								
TE					66.00	1.00	SAND	Quartzose, clayey, light grey, medium dense, non-plastic, fine and medium grained.
TE					70.00	4.00	CLAY	Sandy, quartzose, light grey, very soft, low plasticity (clay), fine and medium grained.
TE					76.00	6.00	CLAY	Silty, sandy, light grey, very soft, low plasticity (clay), fine grained; Bands include: CLAY, light white, very soft, low plasticity (clay).
TE					81.00	5.00	SAND	Quartzose, light grey, medium dense, non-plastic, fine and medium grained.
TE					90.00	9.00	SAND	Quartzose, light grey, medium dense, non-plastic, fine grained.

END OF BORE AT 90.00 m

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Easting: 488160.000
Northing: 5410940.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Cr1: 150.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 34.78
Drilling Commenced: 02/12/81
Drilling Completed: 02/12/81
Inclination:
Azimuth:
Standing Water Level: 3.8

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: HINRICHS
Drilling Contractor: H. J. Stacpoole
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 150
Core Diameter: 100
Cased Depths: 6.0
Core Barrel: Triefus Triple Barrel

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Drill Bits: Blades
Rollers

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.10	0.10	SAND	Silty, medium to dark brown, weathered, medium dense, non-plastic.
					2.00	1.90	CLAY	Sandy, quartzose, medium to dark yellow - buff, firm, low plasticity (clay), fine and medium grained, uniform, gradational base.
					3.55	1.55	SAND	Clayey, quartzose, medium to dark yellow - buff, soft, non-plastic, fine and medium grained.
				C2746	3.64	0.09	LIGNEDUS CLAY	Mottled brown, firm, low plasticity (organic), good core - unbroken.
				C2746	3.86	0.22	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
				C2746	3.91	0.05	LIGNEDUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C2747	3.97	0.06	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, common bioturbation.
				C2747	4.08	0.11	INFERIOR LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
					<u>TOP OF SEAM SA1</u>		<u>4.08</u>	
		SA1		C2748	4.09	0.01	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken.
		SA1		C2748	4.18	0.09	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base; RARE CLAY BANDS
		SA1		C2748	4.22	0.04	CLAY	Ligneous, dark brown, firm, high plasticity (clay), good core - unbroken.
		SA1		C2748	4.27	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile, occasional bioturbation.
		SA1		C2748	4.37	0.10	LIGNITE	Dark brown, firm, friable, good core - unbroken.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SA1		C2748	4.44	0.07	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		SA1		C2748	4.49	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, subfissile.
		SA1		C2748	4.53	0.04	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile.
		SA1		C2748	4.55	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, subfissile, occasional bioturbation.
		SA1		C2748	4.80	0.25	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, fissile, gradational base.
		SA1		C2749	4.83	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, fissile.
		SA1		C2749	4.89	0.06	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		SA1		C2749	5.09	0.20	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, sharp irregular base, beds dip at 05 degrees, occasional ligneous wisps; Additional features include: occasional woody fragments; Additional features include: occasional bioturbation.
		SA1		C2750	5.14	0.05	INFERIOR LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fissile; Bands include: INFERIOR LIGNITE, woody textured, clayey, dark brown - black, low strength, brittle, good core - unbroken, fissile.
		SA1		C2750	5.16	0.02	INFERIOR LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		SA1		C2750	5.37	0.21	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, fissile, occasional resin aggregates.
		SA1		C2751	5.42	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common resin aggregates.
		SA1		C2751	5.55	0.13	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fissile, occasional resin aggregates.
		SA1		C2751	5.64	0.09	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, fissile, occasional resin aggregates.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SA1		C2751	5.67	0.03	LIGNITE	Dark brown - black, low strength, friable, good core - unbroken, fissile.
		SA1			5.74	0.07	CORE LOSS	
		SA1		C2752	6.17	0.43	LIGNITE	Woody textured, clayey, dark brown, firm, friable, core crushed, fissile; COMMON CLAY WISPS, WOOD IS LOW STRENGTH AND BRITTLE
		SA1		C2752	6.35	0.18	LIGNITE	Humified, clayey, dark brown - black, soft, friable, core crushed; FISSILE WHEN FIRM FRIABLE
		SA1		C2752	6.58	0.23	INFERIOR LIGNITE	Clayey, humified, dark brown, soft, friable, core crushed, gradational base, occasional resin aggregates; Additional features include: gelatinous; LOW PLASTICITY TO FRIABLE, COLLOIDAL, RELATIVELY HIGH MOISTURE
		SA1		C2753	6.85	0.27	INFERIOR LIGNITE	Clayey, humified, dark brown - black, soft, friable, core crushed, gradational base, rare resin aggregates; LOW PLASTICITY TO FRIABLE, GELATIONOUS COLLOID, OCCASIONAL WOOD BANDS
		SA1		C2754	7.38	0.53	INFERIOR LIGNITE	Clayey, dark brown, soft, friable, core crushed; LOW PLASTICITY TO FRIABLE, GELATIONOUS, LESS CLAY THAN OVERLYING UNIT Bands include: LIGNITE, woody textured, dark brown - black, firm, friable; THICKNESS OF WOODY LIGNITE BANDS INCREASES DOWN SEQUENCE

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SA1		C2755	7.41	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, gradational base.
		SA1		C2755	7.44	0.03	CLAY	Ligneous, dark brown - black, firm, high plasticity (clay), good core - unbroken, gradational base.
		SA1		C2755	7.47	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken; LOW PLASTICITY TO FRIABLE, OCCASIONAL CLAY WISPS
		SA1		C2755	7.64	0.17	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, soft, friable, good core - unbroken, fissile, common woody fragments.
		SA1		C2755	7.70	0.06	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, fissile.
		SA1		C2755	7.74	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, fissile, gradational base, abundant woody fragments.

BASE OF SEAM SA1					7.74	3.66		
				C2756	7.78	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, occasional ligneous wisps.
				C2756	7.91	0.13	CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken, occasional bioturbation; Additional features include: occasional ligneous wisps.
				C2756	8.15	0.24	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, sharp irregular base, occasional bioturbation.
				C2756	8.18	0.03	CLAY	Ligneous, dark brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C2756	8.24	0.06	CLAY	Ligneous, dark brown, firm, low plasticity (clay), good core - unbroken, gradational base, occasional bioturbation.
				C2756	8.44	0.20	CLAY	Ligneous, dark brown, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2756	8.53	0.09	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken.
				C2757	8.57	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C2757	8.63	0.06	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base; INCREASED CARBONACEOUS CONTENT TOWARDS BASE
				C2757	8.83	0.20	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, common woody fragments; RARE CLAY WISPS
				----- TOP OF SEAM SA2		8.83		
		SA2		C2758	9.12	0.29	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, gradational base, common woody fragments; RARE CLAY WISPS, WOOD FRAGMENTS MORE COMMON TOWARDS BASE OF UNIT
		SA2		C2758	9.44	0.32	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, rare bioturbation.
		SA2		C2758	9.78	0.34	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, fissile; RARE CLAY BANDS, WOODY TEXTURE IN PART
		SA2		C2758	10.07	0.29	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken, fissile, gradational base, occasional bioturbation; Additional features include: abundant woody fragments; INCREASED BIOTURBATION AND INHERENT CLAY TOWARDS BASE OF UNIT

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SA2		C2758	10.08	0.01	LIGNEOUS CLAY	Light to medium brown - grey, firm, high plasticity (organic), good core - unbroken.

					BASE OF SEAM SA2	10.08	1.25	

				C2759	10.71	0.63	CLAY	Mottled brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps; CLAY IS LIGHT TO MID BROWN-GREY, WITH RARE CARBONACEOUS WISPS
				C2759	10.93	0.22	CLAY	Sandy, quartzose, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, very fine grained, gradational base.
				C2759	11.07	0.14	SAND	Clayey, quartzose, light to medium grey, firm, low plasticity (clay), good core - unbroken, very fine grained, occasional ligneous wisps.
				C2759	11.10	0.03	CLAY	Sandy, woody textured, medium to dark grey - brown, firm, low plasticity (clay), good core - unbroken.
				C2759	11.22	0.12	SAND	Clayey, light to medium grey, firm, low plasticity (clay), good core - unbroken, very fine grained.
				C2759	11.33	0.11	SAND	Clayey, light to medium grey - brown, firm, low plasticity (clay), good core - unbroken, very fine grained, rare ligneous wisps; Additional features include: good core - unbroken, abundant woody fragments.
				C2759	11.45	0.12	SAND	Clayey, light to medium grey, firm, low plasticity (clay), good core - unbroken, very fine grained, abundant bioturbation.
				C	11.56	0.11	CORE LOSS	
				R	14.80	3.24	CLAY	Sandy, light to medium grey, firm, low plasticity (clay), very fine grained; Bands include: LIGNEOUS CLAY, silty, medium to dark brown, firm, low plasticity (organic), common ligneous wisps.

					TOP OF SEAM SB1	14.80		

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SB1		C2760	14.84	0.04	CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken.
		SB1		C2760	14.90	0.06	INFERIOR LIGNITE	Clayey, mottled brown, firm, friable, good core - unbroken, common bioturbation; LIGNITE IS MOTTLED MID TO DARK BROWN
		SB1		C2760	15.06	0.16	LIGNITE	Dark brown, firm, friable, good core - unbroken, common bioturbation.
-----					BASE OF SEAM SB1	15.06	0.26	-----
		SB2		C2761	15.40	0.34	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional resin aggregates; Additional features include: common bioturbation.
		SB2		C2761	15.58	0.18	LIGNITE	Dark brown, firm, friable, good core - unbroken, subfissile, common bioturbation; Additional features include: good core - unbroken, common resin aggregates.
		SB2		C2761	15.62	0.04	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, fissile, common bioturbation.
		SB2		C2761	15.84	0.22	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, rare resin aggregates; Additional features include: good core - unbroken, common bioturbation.
		SB2		C2761	15.92	0.08	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, fissile, gradational base, common bioturbation; Bands include: LIGNITE, woody textured, dark brown, low strength, brittle, good core - unbroken, fissile.
-----					BASE OF SEAM SB2	15.92	0.86	-----
				C2762	16.11	0.19	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, rare resin aggregates; Additional features include: good core - unbroken, common bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2762	16.22	0.11	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken, common bioturbation.
				C2762	16.55	0.33	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation; DEGREE OF BIOTURBATION INCREASES DOWN SEQUENCE
				C2763	16.85	0.30	CLAY	Silty, light to medium grey - brown, firm, low plasticity (clay), good core - unbroken, gradational base, rare resin aggregates; Additional features include: good core - unbroken, common bioturbation.
				C2763	17.08	0.23	INFERIOR LIGNITE and CLAY	Intermixed 70:30. INFERIOR LIGNITE: clayey, dark brown, firm, friable, good core - unbroken, common bioturbation; CLAY: medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.
				C2763	17.10	0.02	CLAY	Light to medium brown - grey, firm, low plasticity (clay), good core - unbroken.
				C	17.17	0.07	CORE LOSS	
				C2764	17.24	0.07	CLAY	Ligneous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, subfissile, rare woody fragments.
				C2764	17.36	0.12	CLAY	Light to medium brown - grey, firm, low plasticity (clay), good core - unbroken.
				C2764	17.55	0.19	CLAY	Light to medium grey - brown, firm, low plasticity (clay), good core - unbroken, gradational base, occasional bioturbation; Additional features include: good core - unbroken, rare ligneous wisps; Additional features include: good core - unbroken, rare resin aggregates.
				C2764	17.66	0.11	CLAY	Ligneous, light to medium brown, firm, low plasticity (clay), good core - unbroken, gradational base.
				C2764	17.68	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, subfissile, common ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				TOP OF SEAM SB3	17.68			
		SB3		C2765	17.73	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken, subfissile.
		SB3		C2765	17.83	0.10	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation; Bands include: CLAY, dark brown - grey, firm, low plasticity (clay), good core - unbroken.
		SB3		C2765	18.00	0.17	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, common bioturbation.
		SB3		C2766	18.14	0.14	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile, common bioturbation.
		SB3		C2766	18.25	0.11	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation.
		SB3		C0001	18.29	0.04	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, fissile, common bioturbation.
		SB3		C0001	18.35	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
		SB3		C0001	18.38	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile, common bioturbation.
		SB3		C0001	18.73	0.35	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation; Additional features include: good core - unbroken, common woody fragments.
		SB3		C0001	18.75	0.02	INFERIOR LIGNITE	Clayey, dark brown, low strength, brittle, good core - unbroken, fissile.
		SB3		C0001	18.97	0.22	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
		SB3		C0001	19.21	0.24	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
		SB3		C2767	19.41	0.20	LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, common woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SB4		C2769	21.44	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, common leaf fragments.
		SB4		C2769	21.84	0.40	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, subfissile, rare resin aggregates; Additional features include: good core - unbroken, occasional bioturbation.
		SB4		C2769	21.94	0.10	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, fissile, occasional bioturbation.
		SB4		C2770	21.97	0.03	LIGNITE	Clayey, dark brown - black, low strength, brittle, good core - unbroken, fissile, occasional bioturbation.
		SB4		C2770	22.34	0.37	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
		SB4		C0002	22.36	0.02	LIGNITE	Woody textured, dark brown - black, low strength, brittle, good core - unbroken, fissile.
		SB4		C0002	22.42	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, occasional bioturbation.
		SB4		C0002	22.53	0.11	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken, gradational base, common bioturbation.
		SB4		C0002	22.56	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
		SB4		C0002	22.58	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, gradational base, common bioturbation.
					BASE OF SEAM SB4	22.58	1.88	
				C2771	22.71	0.13	LIGNEOUS CLAY	Medium to dark brown, firm, friable, good core - unbroken, common bioturbation.
				C2771	22.94	0.23	CLAY	Ligneous, silty, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken, common bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2771	23.19	0.25	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, common bioturbation; Additional features include: good core - unbroken, abundant ligneous wisps.
				C2771	23.40	0.21	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, rare ligneous wisps.
				C2771	23.54	0.14	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C	24.11	0.57	CORE LOSS	
				C2772	24.14	0.03	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken.
				C2772	24.17	0.03	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, rare ligneous wisps.
				C2772	24.23	0.06	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2772	24.26	0.03	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, occasional woody fragments; Additional features include: good core - unbroken, rare ligneous wisps.
				C2772	24.64	0.39	CLAY	Silty, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, rare ligneous wisps.
				C2772	24.75	0.11	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2772	25.11	0.36	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, sharp irregular base.
				C2773	25.17	0.06	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, fissile.
				C2773	25.45	0.28	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile, rare bioturbation; Additional features include: good core - unbroken, common woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2774	25.50	0.05	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, common woody fragments.
				C2774	25.60	0.10	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, gradational base, common woody fragments.
				C2774	25.69	0.09	CLAY	Light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base, rare resin aggregates.
				C2774	25.74	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, occasional resin aggregates; Additional features include: good core - unbroken, rare bioturbation.
				C0003	26.15	0.41	LIGNITE	Medium to dark brown, firm, friable, good core - unbroken, gradational base, occasional bioturbation.
				C0003	26.20	0.05	LIGNITE	Clayey, woody textured, medium to dark brown, firm, friable, good core - unbroken, subfissile.
				C0003	26.26	0.06	LIGNITE	Dark brown, firm, friable, good core - unbroken, sharp planar base, beds dip at 30 degrees;
WHOLE UNIT DIPS AT 30 DEGREES								
				C0003	26.39	0.13	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C0003	26.45	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile, common woody fragments; Additional features include: good core - unbroken, occasional bioturbation.
				TOP OF SEAM SC1		26.45		
		SC1		C2775	26.55	0.10	LIGNITE	Dark brown, firm, friable, good core - unbroken, fissile.
		SC1		C2775	26.57	0.02	INFERIOR LIGNITE	Clayey, woody textured, medium to dark brown, low strength, friable, good core - unbroken, rare resin aggregates.
		SC1		C2775	26.78	0.21	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, occasional resin aggregates.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SC1		C2776	26.81	0.03	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, subfissile.
		SC1		C2776	26.93	0.12	LIGNITE	Dark brown, firm, friable, good core - unbroken, rare bioturbation.
		SC1		C2776	27.21	0.28	LIGNITE	Dark brown, firm, friable, good core - unbroken, rare bioturbation.
		SC1		C2777	27.73	0.52	LIGNITE	Dark brown, firm, friable, good core - unbroken, occasional woody fragments.
		SC1		C2777	27.80	0.07	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile.
		SC1		C2777	28.42	0.62	LIGNITE	Dark brown, firm, friable, good core - unbroken, rare bioturbation; Additional features include: good core - unbroken, occasional woody fragments.
		SC1		C2778	28.45	0.03	LIGNITE	Woody textured, dark brown - black, low strength, brittle, good core - unbroken, fissile.
		SC1		C2778	28.65	0.20	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, common bioturbation.
		SC1		C2779	28.68	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		SC1		C2779	28.72	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		SC1		C2779	28.91	0.19	LIGNITE	Dark brown, firm, friable, good core - unbroken, occasional bioturbation.
		SC1		C2779	28.99	0.08	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, gradational base.
		SC1		C2779	29.07	0.08	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		SC1		C2779	29.12	0.05	CLAY	Ligneous, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, occasional bioturbation.
		SC1		C2780	29.33	0.21	LIGNITE	Dark brown, firm, friable, good core - unbroken, occasional bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SC1		C2781	29.38	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown - grey, firm, friable, good core - unbroken, occasional bioturbation.
		SC1		C2781	29.94	0.56	LIGNITE	Dark brown, firm, friable, good core - unbroken, fissile, occasional bioturbation.
		SC1		C2781	30.27	0.33	LIGNITE	Dark brown, firm, friable, good core - unbroken, fissile, common bioturbation.
		SC1		C2781	30.46	0.19	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base, common bioturbation.

 BASE OF SEAM SC1 30.46 4.01

				C2782	30.49	0.03	CLAY	Sandy, quartzose, medium to dark brown, firm, low plasticity (clay), good core - unbroken, very fine grained, common resin aggregates.
				C2782	30.54	0.05	CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken, rare woody fragments.
				C2782	30.59	0.05	CLAY	Sandy, medium to dark brown, firm, low plasticity (clay), good core - unbroken, very fine grained, common woody fragments.
				C2782	30.88	0.29	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, rare bioturbation; Additional features include: good core - unbroken, rare woody fragments.
				C2782	30.98	0.10	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, rare bioturbation.
				C2782	31.73	0.75	CLAY	Silty, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, rare ligneous wisps; Additional features include: good core - unbroken, common bioturbation.
				C2782	32.24	0.51	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
				C2783	32.26	0.02	LIGNEOUS CLAY	Medium to dark brown - black, firm, low plasticity (organic), good core - unbroken, occasional woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2783	32.30	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, rare resin aggregates; Additional features include: good core - unbroken, common bioturbation.
				C2783	32.51	0.21	LIGNITE	Dark brown - grey, firm, friable, good core - unbroken, gradational base, common bioturbation.
				C2783	32.59	0.08	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base; INCREASED CLAY CONTENT TOWARDS BASE
				C2783	32.63	0.04	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C2783	32.66	0.03	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.
				C2783	33.04	0.38	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base, common carbonaceous remains; Additional features include: good core - unbroken, common bioturbation.
				C2783	33.18	0.14	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, common bioturbation.
				C	34.78	1.60	CORE LOSS	
					35.40	0.62	INFERIOR LIGNITE	Clayey, humified, medium to dark black - brown, firm, friable.
					40.00	4.60	SILT	Sandy, quartzose, light to medium grey, medium dense, non-plastic; Bands include: CLAY, light white, soft, high plasticity (clay); Bands include: CLAY, silty, sandy, light to medium grey, soft, low plasticity (clay).
					47.20	7.20	CLAY	Light white, soft, high plasticity (clay).
					48.90	1.70	SILT	Sandy, clayey, light to medium grey, medium dense, non-plastic, very fine grained.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					52.00	3.10	SILT	Sandy, clayey, light to medium grey, medium dense, non-plastic, very fine grained; Bands include: CLAY, light white, soft, high plasticity (clay).
					58.00	6.00	SILT	Sandy, clayey, light to medium grey, medium dense, non-plastic, very fine grained; Bands include: INFERIOR LIGNITE, 00.70 m thick, base at 0053.70m, clayey, humified, medium to dark black - brown, firm, friable; Bands include: GRAVEL, 00.05 m thick, base at 0057.05m, medium dense, non-plastic.
					60.00	2.00	CLAY	Silty, light white - grey, soft, high plasticity (clay); WITH SOME FINE-VERY FINE SAND Bands include: CLAY, silty, light brown - grey, soft, high plasticity (clay); WITH SOME FINE-VERY FINE SAND
					69.70	9.70	CLAY	Light brown - grey, soft, high plasticity (clay).
					70.40	0.70	SILT	Ligneous, woody textured, light to medium brown, medium dense, non-plastic.
					71.90	1.80	CLAY	Light brown - grey, soft, high plasticity (clay).
					72.50	0.60	INFERIOR LIGNITE	Humified, clayey, dark black - brown, firm, friable.
					80.00	7.50	SILT	Clayey, sandy, light brown, medium dense, non-plastic; Bands include: CLAY, light brown - grey, soft, high plasticity (clay).

END OF BORE AT 80.00 m

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Easting: 493150.000
Northing: 5413660.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Ccl: 160.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 36.00
Drilling Commenced: 12/04/82
Drilling Completed: / /
Inclination:
Azimuth:
Standing Water Level:

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: Deadline Drilling
Geophysical Logging: Century Geophysical Corp.

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 140
Core Diameter: 100
Cased Depths:
Core Barrel:

Available Data: Gamma Logs
Neutron Logs
Density Logs
Self Potential Logs
Resistivity Logs
Caliper Logs

Drill Bits: Blades
Tungsten Carbide

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.30	0.30	SILT	Sandy, medium to dark brown, medium dense, non-plastic.
					1.80	1.50	CLAY	Sandy, mottled buff - orange, firm, low plasticity (clay); WITH A TRACE OF GRAVEL
					1.90	0.10	GRAVEL	Medium to dark red - purple, medium dense, non-plastic; BUCKSHOT/IRONSTONE
					3.50	1.60	CLAY	Silty, mottled yellow - grey, firm, low plasticity (clay); Additional features include: pink; WITH STIFF LOW PLASTICITY BANDS
					3.90	0.40	IRONSTONE - UN-DIFFERENTIATED	Medium to dark brown - yellow, low strength, brittle; CONCRETIONARY IRONSTONE, FERRICRETE
					5.00	1.10	CLAY	Kaolinitic, mottled grey - yellow, firm, high plasticity (clay), gradational base.
					7.00	2.00	CLAY	Silty, kaolinitic, mottled buff - grey, stiff, low plasticity (clay); Additional features include: yellow.
			R		7.50	0.50	CLAY	Light to medium grey - brown, firm, high plasticity (clay).
			R		7.55	0.05	INFERIOR LIGNITE	Dark brown - black, firm, friable.
					TOP OF SEAM LB1		7.55	
		LB1		C0221	7.63	0.08	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0221	7.79	0.16	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB1		C0221	7.82	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB1		C0221	7.89	0.07	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB1		C0221	7.99	0.10	LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		LB1		C0221	8.01	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB1		C0221	8.05	0.04	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0221	8.12	0.07	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB1		C0221	8.14	0.02	LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken.
		LB1		C0221	8.21	0.07	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB1		C0221	8.24	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0222	8.32	0.08	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB1		C0222	8.35	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0222	8.39	0.04	LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		LB1		C0222	8.40	0.01	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0222	8.42	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB1		C0222	8.44	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0222	8.47	0.03	LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		LB1		C0222	8.52	0.05	LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken.
		LB1		C0222	8.58	0.06	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.

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TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB1		C0222	8.61	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB1		C0222	8.64	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0222	8.65	0.01	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB1		C0222	8.67	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0222	8.71	0.04	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LB1		C0222	8.74	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB1		C0222	8.78	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		LB1		C0222	8.81	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB1		C0222	8.88	0.07	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0222	8.89	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB1		C0222	8.95	0.06	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB1		C0222	8.97	0.02	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken.
		LB1		C0222	9.01	0.04	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB1		C0223	9.19	0.18	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0223	9.39	0.20	LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		LB1		C0223	9.55	0.16	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB1		C0223	9.58	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB1		C0223	9.59	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB1		C0223	9.61	0.02	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		LB1		C0223	9.72	0.11	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB1		C0223	9.81	0.09	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0223	9.93	0.12	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB1		C0223	9.98	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0223	9.99	0.01	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		LB1		C0223	10.07	0.08	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0223	10.09	0.02	LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		LB1		C0223	10.17	0.08	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
		LB1		C0223	10.24	0.07	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB1		C0223	10.29	0.05	LIGNEOUS CLAY and LIGNITE	Intermixed 80:20. LIGNEOUS CLAY: dark brown - grey, firm, high plasticity (clay), good core - unbroken; LIGNITE: clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0223	10.39	0.10	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		BASE OF SEAM LB1			10.39	2.84		
				C0224	10.46	0.07	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, sharp planar base, beds dip at 05 degrees.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0224	10.50	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0224	10.56	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0224	10.58	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0224	10.60	0.02	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0224	10.62	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0224	10.67	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0224	10.73	0.06	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0224	10.76	0.03	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0224	10.99	0.23	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.
				C0224	11.02	0.03	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				TOP OF SEAM LB2		11.02		
		LB2		C0225	11.08	0.06	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, subfissile.
		LB2		C0225	11.11	0.03	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.
		LB2		C0225	11.13	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, subfissile.

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TENEMENT 2090

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C0225	11.20	0.07	LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken; Bands include: LIGNITE, base at 0011.14m, woody textured, clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0225	11.27	0.07	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0225	11.29	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0225	11.32	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0225	11.34	0.02	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0225	11.40	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0225	11.43	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0225	11.45	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0225	11.55	0.10	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0225	11.56	0.01	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0225	11.57	0.01	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0225	11.58	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0225	11.60	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0225	11.62	0.02	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C0225	11.63	0.01	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0225	11.64	0.01	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0225	11.66	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0225	11.80	0.14	LIGNEOUS CLAY and CLAY	Intermixed 60:40. LIGNEOUS CLAY: dark brown, firm, high plasticity (clay), good core - unbroken; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0225	11.92	0.12	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0225	11.95	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0225	12.02	0.07	LIGNEOUS CLAY and CLAY	LIGNEOUS CLAY: dark brown, firm, high plasticity (clay), good core - unbroken; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0225	12.04	0.02	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0225	12.07	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0226	12.12	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0226	12.14	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0226	12.19	0.05	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB2		C0226	12.22	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0226	12.49	0.27	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

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TENEMENT 2020

STRAT NAME	SEQ NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C0226	12.52	0.03	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		LB2		C0226	12.54	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0226	12.55	0.01	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		LB2		C0226	12.57	0.02	LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		LB2		C0226	12.58	0.01	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0226	12.74	0.16	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, rare bioturbation.
		LB2		C0226	12.77	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0226	12.83	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0226	13.05	0.22	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB2		C0226	13.07	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0227	13.09	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0227	13.11	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0227	13.15	0.04	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0227	13.18	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0227	13.20	0.02	CLAY	Ligneous, medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0227	13.22	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.

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TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C0228	13.34	0.12	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0228	13.39	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0228	13.40	0.01	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0228	13.43	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0228	13.45	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0228	13.47	0.02	LIGNEOUS CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0228	13.50	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0228	13.54	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0228	13.56	0.02	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.
		LB2		C0228	13.61	0.08	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0228	13.62	0.01	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0228	13.64	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0228	13.67	0.03	LIGNITE	Woody textured, clayey, dark brown, firm, friable, good core - unbroken, fibrous.
		LB2		C0228	13.71	0.04	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0228	13.73	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB2		C0228	13.76	0.03	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.

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TENEMENT 2080

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C0228	13.78	0.02	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0228	13.79	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0228	13.80	0.01	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0228	13.81	0.01	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB2		C0228	13.82	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0228	13.86	0.04	LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 05 degrees.
		LB2		C0228	13.88	0.02	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0228	13.91	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0228	13.93	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0228	13.96	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0228	14.00	0.04	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		LB2		C0229	14.02	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0229	14.03	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0229	14.08	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0229	14.09	0.01	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB2		C0229	14.15	0.06	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.

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TENEMENT 2020

STRAT NAME	SEQ NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C0229	14.21	0.06	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		LB2		C0229	14.28	0.07	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB2		C0229	14.30	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0229	14.44	0.14	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB2		C0229	14.45	0.01	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0229	14.67	0.22	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB2		C0229	14.75	0.08	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0229	14.79	0.04	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB2		C0229	14.83	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0229	14.98	0.15	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB2		C0229	15.33	0.35	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, common resin aggregates.
		LB2		C0230	15.36	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0230	15.38	0.02	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0230	15.39	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0230	15.42	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0230	15.44	0.02	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0230	15.48	0.04	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C0230	15.53	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0230	15.56	0.03	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0230	15.68	0.12	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0230	15.70	0.02	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0230	15.72	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0230	15.75	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0231	15.99	0.24	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB2		C0231	16.04	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0231	16.19	0.15	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LB2		C0231	16.40	0.21	LIGNITE	Clayey, dark brown - black, firm, friable, core broken;
							30% RECOVERY	
		LB2		C0231	16.50	0.10	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0231	16.54	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0232	16.57	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0232	16.66	0.09	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0232	16.71	0.05	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0232	16.74	0.03	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		00232	16.81	0.07	LIGNEDUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		00232	16.84	0.03	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB2		00232	16.89	0.05	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		00232	16.92	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		00232	16.94	0.02	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		00232	16.98	0.04	CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		00232	17.00	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		00232	17.01	0.01	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		00232	17.04	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		00233	17.26	0.22	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		00233	17.28	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		00233	17.39	0.11	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LB2		00233	17.54	0.15	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LB2		00233	17.55	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		00233	17.57	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		00233	17.58	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C0233	17.69	0.11	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0233	17.73	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0233	17.86	0.13	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0233	17.87	0.01	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0233	18.25	0.38	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0234	18.30	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0234	18.35	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0234	18.45	0.10	INFERIOR LIGNITE	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0234	18.48	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0234	18.52	0.04	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0234	18.58	0.06	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0234	18.63	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0234	18.65	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0234	18.85	0.20	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LB2		C0234	18.86	0.01	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.
		LB2		C0234	18.90	0.04	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C0234	18.94	0.04	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0234	18.97	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0234	18.99	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0234	19.03	0.04	LIGNEOUS CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0234	19.10	0.07	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0234	19.11	0.01	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C0234	19.14	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0235	19.25	0.11	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0235	19.27	0.02	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.
		LB2		C0235	19.55	0.28	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0235	19.58	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C0235	19.72	0.14	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0236	19.76	0.04	LIGNEOUS CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0236	19.78	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0236	19.83	0.05	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C0236	19.87	0.04	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
		LB2		C0236	19.88	0.01	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0236	19.91	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, occasional bioturbation.
		LB2		C0236	19.93	0.02	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0236	19.95	0.02	LIGNEDUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0236	20.02	0.07	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, occasional bioturbation.
		LB2		C0236	20.06	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C0236	20.27	0.21	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0236	20.29	0.02	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB2		C0236	20.33	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
				BASE OF SEAM LB2		20.33	9.31	
				C0237	20.37	0.04	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken; Additional features include: expanding clay.
				C0237	20.40	0.03	CLAY	Mottled brown, firm, high plasticity (clay), good core - unbroken; Additional features include: expanding clay.
				C0237	20.46	0.06	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken; Additional features include: expanding clay.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB3		C0238	21.46	0.06	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C0238	21.53	0.07	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		LB3		C0238	21.56	0.03	LIGNITE	Clayey, dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		LB3		C0238	22.14	0.58	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
		LB3		C0239	22.22	0.08	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C0239	22.26	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB3		C0239	22.28	0.02	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB3		C0239	22.41	0.13	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C0239	22.42	0.01	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB3		C0239	22.43	0.01	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		LB3		C0239	22.48	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C0239	22.60	0.12	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LB3		C0239	22.66	0.06	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C0239	22.80	0.14	LIGNITE and LIGNITE	Interbedded 60:40. LIGNITE: dark brown, firm, friable, good core - unbroken; LIGNITE: clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C0239	22.83	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.

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TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB3		C0239	22.85	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB3		C0239	22.87	0.02	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		LB3		C0239	22.89	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB3		C0239	23.01	0.12	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C0239	23.06	0.05	LIGNITE	Clayey, dark black - brown, firm, friable, good core - unbroken.
		LB3		C0239	23.08	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB3		C0239	23.10	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB3		C0239	23.18	0.08	LIGNITE	Dark brown, firm, fault, friable, sparse, oblique joints, subhorizontal joints, good core - unbroken, siderite, secondary, fractures.
		LB3		C0239	23.24	0.06	LIGNITE	Clayey, medium to dark brown - grey, firm, friable, good core - unbroken.
		LB3		C0239	23.40	0.16	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C0239	23.41	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB3		C0239	23.51	0.10	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C0240	23.52	0.01	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB3		C0240	23.64	0.12	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB3		C0240	23.68	0.04	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		LB3		C0240	23.73	0.05	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.

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TENEMENT 2090

STRAT NAME	SEQ NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB3		C0240	23.77	0.04	LIGNEOUS CLAY	Medium to dark brown - grey, firm, friable, good core - unbroken.
		LB3		C0240	23.99	0.22	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C0240	24.03	0.04	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LB3		C0240	24.16	0.13	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LB3		C0240	24.19	0.03	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB3		C0240	24.20	0.01	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C0240	24.27	0.07	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		LB3		C0240	24.42	0.15	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB3		C0240	24.45	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB3		C0240	24.48	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C0240	24.51	0.03	LIGNEOUS CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		LB3		C0241	24.64	0.13	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB3		C0241	24.66	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB3		C0241	24.80	0.14	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
		LB3		C0241	25.07	0.27	LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken, occasional bioturbation.
		LB3		C0241	25.15	0.08	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0243	25.81	0.16	CLAY	Silty, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0243	25.85	0.04	CLAY and CLAY	Intermixed 70:30. CLAY: light to medium brown, firm, high plasticity (clay), good core - unbroken; CLAY: silty, light brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0243	26.04	0.19	CLAY	Silty, light to medium brown, firm, high plasticity (clay), good core - unbroken, rare ligneous wisps; Additional features include: good core - unbroken, bioturbation.
				C0243	26.17	0.13	CLAY and CLAY	Interbedded 60:40. CLAY: silty, sandy, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken; CLAY: sandy, silty, light grey - brown, firm, high plasticity (clay), good core - unbroken;
								FINELY LAMINAR
				C0243	26.21	0.04	CLAY	Sandy, light grey - brown, firm, high plasticity (clay), good core - unbroken, fine grained, common bioturbation.
				C0243	26.29	0.08	CLAY and CLAY	Interbedded 70:30. CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken; CLAY: sandy, light grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0243	26.31	0.02	SAND	Clayey, light grey - brown, soft, low plasticity (clay), good core - unbroken, fine grained.
				C0243	26.38	0.07	CLAY and CLAY	Interbedded 80:20. CLAY: silty, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, fine bedding, common bioturbation; CLAY: sandy, light grey - brown, good core - unbroken.
				C0243	26.66	0.28	SAND and CLAY	Interbedded 80:20. SAND: clayey, quartzose, light grey, firm, low plasticity (clay), good core - unbroken, fine grained, fine cross bedding, fine bedding, common bioturbation; CLAY: silty, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0243	26.92	0.26	CLAY and CLAY	Interbedded 60:40. CLAY: sandy, light grey - brown, firm, high plasticity (clay), good core - unbroken, fine bedding, common bioturbation; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0243	27.01	0.09	CLAY and CLAY	Interbedded 80:20. CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, fine bedding; CLAY: sandy, light grey - brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0244	27.12	0.11	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0244	27.26	0.14	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.
				C0244	27.61	0.35	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.
				C0244	27.68	0.07	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0244	27.80	0.12	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.
				C0244	28.02	0.22	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.
				C0244	28.12	0.10	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.
							SAND INFILLS WORM BURROWS	
				C0244	28.15	0.03	SAND	Sideritic, medium to dark grey - brown, firm, non-plastic, good core - unbroken, siderite, secondary, cement.
				C0244	28.18	0.03	CLAY	Sandy, light to medium brown - grey, firm, low plasticity (organic), good core - unbroken.
				C0245	28.20	0.02	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0245	28.22	0.02	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0245	28.24	0.02	INFERIOR LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken.
				C0245	28.26	0.02	CLAY and INFERIOR LIGNITE and SAND	Interbedded 40:30:30. CLAY: silty, light to medium brown, firm, high plasticity (clay), good core - unbroken; INFERIOR LIGNITE: clayey, medium to dark brown, firm, low plasticity (organic), good core - unbroken; SAND: light grey - brown, firm, low plasticity (organic), good core - unbroken.
				C0245	28.29	0.03	CLAY	Silty, light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.
				C0245	28.32	0.03	CLAY	Silty, sandy, light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0245	28.40	0.08	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0245	28.52	0.12	CLAY	Light brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0245	28.55	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0245	28.56	0.01	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0245	28.59	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0245	28.66	0.07	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0245	28.87	0.21	CLAY and CLAY	Interbedded 50:50. CLAY: light to medium grey, firm, high plasticity (clay), good core - unbroken; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.

TOP OF SEAM LC1 28.87

EL2080 LAUNCESTON, C0020

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LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080
LAUNCESTON

TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LC1		C0246	29.14	0.27	LIGNITE and LIGNITE	Interbedded 60:40. LIGNITE: clayey, dark brown - black, firm, friable, good core - unbroken; LIGNITE: clayey, dark brown, firm, friable, good core - unbroken.
		LC1		C0246	29.17	0.03	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LC1		C0246	29.20	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LC1		C0246	29.27	0.07	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LC1		C0246	29.30	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LC1		C0246	29.33	0.03	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		LC1		C0246	29.40	0.07	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LC1		C0246	29.42	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		LC1		C0246	29.46	0.04	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LC1		C0246	29.50	0.04	LIGNITE	Clayey, dark brown - buff, firm, friable, good core - unbroken; Additional features include: black, good core - unbroken.
		LC1		C0246	29.61	0.11	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LC1		C0246	29.73	0.12	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		LC1		C0246	29.78	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LC1		C0246	29.89	0.11	LIGNITE and INFERIOR LIGNITE	Interbedded 70:30. LIGNITE: clayey, dark brown - black, firm, friable, good core - unbroken; INFERIOR LIGNITE: clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LC1		C0246	30.04	0.15	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.

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GEOLOGICAL LOG REPORT

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LAUNCESTON

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LC1		C0247	30.24	0.20	LIGNEOUS CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		LC1		C0247	30.27	0.03	LIGNITE	Clayey, dark brown - yellow, firm, friable, good core - unbroken, fibrous.
		LC1		C0247	30.38	0.11	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LC1		C0247	30.46	0.08	LIGNITE	Clayey, dark brown - yellow, firm, friable, good core - unbroken, fibrous.
		LC1		C0247	30.51	0.05	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		LC1		C0247	30.57	0.06	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant ligneous wisps.
		LC1		C0247	30.59	0.02	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		LC1		C0247	30.68	0.09	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		LC1		C0247	30.73	0.05	LIGNITE	Clayey, woody textured, dark brown - yellow, firm, friable, good core - unbroken.
		LC1		C0247	30.77	0.04	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		LC1		C0247	30.79	0.02	LIGNITE	Clayey, dark brown - yellow, firm, friable, good core - unbroken.
		LC1		C0247	30.83	0.04	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		LC1		C0247	30.88	0.05	LIGNITE	Clayey, dark brown - yellow, firm, friable, good core - unbroken.
		LC1		C0247	31.00	0.12	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		LC1		C0248	31.14	0.14	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

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GEOLOGICAL LOG REPORT

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LAUNCESTON

TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LC1		C0248	31.17	0.03	LIGNITE	Clayey, dark brown - yellow, firm, friable, good core - unbroken.
		LC1		C0248	31.36	0.19	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken; Additional features include: yellow, good core - unbroken.
		LC1		C0248	31.41	0.05	LIGNITE	Clayey, dark brown - yellow, firm, friable, good core - unbroken, fibrous.
		LC1		C0248	31.51	0.10	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LC1		C0248	31.54	0.03	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LC1		C0248	31.63	0.09	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LC1		C0248	31.65	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		LC1		C0248	31.70	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		LC1		C0248	31.88	0.18	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation.
		LC1		C0248	31.97	0.09	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
		LC1		C0248	32.04	0.07	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, abundant bioturbation.
		LC1		C0248	32.05	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, abundant bioturbation.
		LC1		C0248	32.10	0.05	CLAY	Medium to dark brown, firm, friable, good core - unbroken, abundant bioturbation.
		LC1		C0248	32.18	0.08	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, abundant bioturbation.
		LC1		C0248	32.24	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, abundant bioturbation.

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TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LC1		C0248	32.42	0.18	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
					BASE OF SEAM LC1	32.42	3.55	
				C0249	32.50	0.08	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
				C0249	32.59	0.09	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, abundant bioturbation.
				C0249	32.64	0.05	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0249	32.67	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
				C0249	32.75	0.08	LIGNEOUS CLAY and CLAY	Interbedded 80:20. LIGNEOUS CLAY: dark brown, firm, high plasticity (clay), good core - unbroken; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0249	32.78	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
				C0249	32.80	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
				C0249	32.83	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0250	33.16	0.33	CLAY and CLAY	Interbedded 90:10. CLAY: light brown - grey, firm, high plasticity (clay), good core - unbroken; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0250	33.35	0.19	CLAY and CLAY	Intermixed 80:20. CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken; CLAY: light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0250	33.43	0.09	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0250	33.64	0.21	CLAY and CLAY	Intermixed 50:50. CLAY: light to medium grey - brown, firm, high plasticity (clay), good core - unbroken; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0250	33.89	0.25	CLAY and CLAY and CLAY	Interbedded 40:40:20. CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken; CLAY: light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps; CLAY: light to medium grey, firm, high plasticity (clay), good core - unbroken.
					34.09	0.20	CORE LOSS	
					36.85	2.76	CLAY	Carbonaceous, medium to dark brown - grey, firm, high plasticity (clay).
					37.30	0.45	SAND	Ligneous, quartzose, medium to dark brown, medium dense, non-plastic.
					38.20	0.90	INFERIOR LIGNITE	Sandy, quartzose, medium to dark brown, firm, friable; Additional features include: humified, clayey.
					38.55	0.35	CLAY	Medium to dark brown - grey, firm, high plasticity (clay).
					40.20	1.65	INFERIOR LIGNITE	Humified, clayey, medium to dark brown, firm, friable; Bands include: CLAY, carbonaceous, medium to dark brown - grey, firm, high plasticity (clay), common woody fragments; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
					47.20	7.00	CLAY	Carbonaceous, medium to dark brown, firm, high plasticity (clay), gradational base, common woody fragments; Additional features include: abundant ligneous wisps; Bands include: CLAY, ligneous, medium to dark brown, firm, low plasticity (clay); Bands include: INFERIOR LIGNITE, humified, clayey, medium to dark brown, firm, friable.
					47.85	0.65	CLAY	Light to medium grey - brown, firm, high plasticity (clay).
					49.60	1.75	CLAY	Carbonaceous, medium to dark brown, firm, high plasticity (clay).

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GEOLOGICAL LOG REPORT

ATP EL2080
LAUNCESTON

TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					60.30	10.70	SAND	Quartzose, light to medium grey, medium dense, non-plastic, fine and medium grained, poorly sorted, subrounded, equant, fining upwards, common woody fragments; Additional features include: rounded, common ligneous fragments.
					62.80	2.50	SAND	Quartzose, light to medium grey, medium dense, non-plastic, fine and medium grained, poorly sorted, subrounded, equant, coarsening upwards, common woody fragments; Additional features include: rounded, common ligneous fragments.
					63.50	0.70	CLAY	Light to medium brown - grey, firm, high plasticity (clay), gradational base.
					67.50	4.00	SAND	Quartzose, woody textured, light to medium grey, medium dense, non-plastic, fine and medium grained, abundant ligneous fragments;
								WOOD NOT HUMIFIED, FIBROUS TEXTURE
					69.80	2.30	SAND	Quartzose, clayey, light to medium grey, medium dense, non-plastic, fine grained.
					70.90	1.10	SAND	Quartzose, woody textured, light to medium grey, medium dense, non-plastic, fine and medium grained.
					71.14	0.24	LIGNITE	Woody textured, medium to dark brown, firm, friable, fibrous.
					72.15	1.01	SIDERITE	Light grey, high strength, tough.
					80.00	7.85	SAND	Quartzose, clayey, light to medium grey, medium dense, non-plastic, fine grained.

END OF BORE AT	80.00 m
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EL2080 LAUNCESTON, C0021

Easting: 493630.000
Northing: 5412350.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 175.00

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: HINRICHS
Drilling Contractor: H. J. Stacpoole
Geophysical Logging: Murdoch Geophysics

Datum: Approximate Level - Not Surveyed

Sheet Reference:

County:

Sheet Index:

Parish:

Total Depth: 9.75

Portion:

Drilling Commenced: 04/12/81

Drilling Completed: 04/12/81

Inclination:

Plug Depths:

Azimuth:

Hole Diameter: 150

Standing Water Level: 11.6

Core Diameter: 100

Cased Depths:

Core Barrel: Triefus Triple Barrel

Available Data: Gamma Logs

Density Logs

Resistivity Logs

Caliper Logs

Drill Bits: Rollers

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	7.00	7.00	NO RECORD	
				C	8.24	1.24	CORE LOSS	
								CORE BARREL DROPPED RAPIDLY THROUGH FIRST 1.5 METRES OF RUN. SUSPECT A CAVITY BECAUSE LOSING CIRCULATION TO ADJACENT ROTARY HOLE
				C2821	8.61	0.37	CLAY	Light to medium yellow - grey, firm, slickensides on fracture, high plasticity (clay), sparse, oblique joints, angle of joints 50 degrees, good core - unbroken, gradational base, rare ligneous wisps; Additional features include: cream, occasional bioturbation.
				C2822	8.64	0.03	CLAY	Ligneous, mottled brown - grey, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.
				C2822	8.70	0.06	LIGNEOUS CLAY	Mottled brown - black, firm, high plasticity (organic), good core - unbroken, occasional bioturbation;
								MOTTLED DARK BROWN BLACK
				C2822	8.71	0.01	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C2822	8.85	0.14	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (organic), good core - unbroken, gradational base, abundant ligneous wisps; Additional features include: good core - unbroken, occasional bioturbation.
				C2822	9.02	0.17	LIGNEOUS CLAY	Medium to dark black - brown, firm, high plasticity (organic), good core - unbroken, gradational base, occasional bioturbation; Additional features include: good core - unbroken, abundant ligneous wisps.
				C2822	9.06	0.04	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2822	9.17	0.11	CLAY	Ligneous, dark brown - grey, firm, high plasticity (clay), good core - unbroken, rare ligneous wisps; Additional features include: good core - unbroken, occasional bioturbation.

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LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080
LAUNCESTON

TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2822	9.19	0.02	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken; CLAY IS ALMOST FRIABLE, LOW STRENGTH
				C2822	9.23	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
				C2822	9.26	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2822	9.27	0.01	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, abundant woody fragments.
				C2822	9.31	0.04	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2822	9.36	0.05	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, subfissile, rare resin aggregates.
				C2822	9.56	0.20	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile, occasional bioturbation; Additional features include: good core - unbroken, abundant woody fragments.
				C2822	9.69	0.13	LIGNITE	Clayey, dark brown - black, firm, coal cleat, friable, sparse, subvertical joints, vertical joints, good core - unbroken, occasional bioturbation.
				C2822	9.72	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C2822	9.76	0.04	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken, occasional bioturbation;
								HOLE ABANDONED DUE TO CIRCULATION LOSS TO ADJACENT ROTARY HOLE

END OF BORE AT 9.76 m

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EL2080 LAUNCESTON. C021R

Easting: 493630.000
Northing: 5412320.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Cri: 174.00
Datum: Approximate Level - Not Surveyed

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: H. J. Stacpoole
Geophysical Logging: Murdoch Geophysics

Sheet Reference:
Sheet Index:

County:
Parish:
Portion:

Total Depth: 79.47
Drilling Commenced: 04/12/81
Drilling Completed: 06/12/81

Plug Depths:
Hole Diameter: 1500
Core Diameter: 1000
Cased Depths:
Core Barrel: Triefus Triple Barrel

Inclination:
Azimuth:
Standing Water Level:

Drill Bits: Blades
Rollers
Tungsten Carbide

Available Data: Gamma Logs
Neutron Logs
Density Logs
Self Potential Logs
Resistivity Logs
Caliper Logs

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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REPORT TC14-01

THIESS COAL SYSTEM

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LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080 TENEMENT 2080
LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.50	0.50	CLAY	Medium to dark brown, firm, high plasticity (clay), gradational base; Bands include: CLAY, medium to dark brown, stiff, high plasticity (clay).
					2.50	2.00	CLAY	Mottled cream - yellow, stiff, high plasticity (clay), gradational base.
					3.20	0.70	CLAY	Mottled white - cream, very stiff, high plasticity (clay), gradational base.
					5.00	1.80	CLAY	Mottled white - cream, firm, high plasticity (clay), gradational base.
				C2823	6.94	1.94	CLAY	Light grey - brown, soft, high plasticity (clay), good core - unbroken; BROWN AND ORANGE HORIZONTAL STREAKS
				C2823	7.14	0.20	CLAY	Light grey - brown, firm, high plasticity (clay), good core - unbroken.
					7.38	0.24	CORE LOSS	
				C2824	7.40	0.02	CLAY	Light grey, firm, high plasticity (clay), good core - unbroken.
				C2824	7.72	0.32	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C2824	7.92	0.20	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, common woody fragments; Additional features include: common bioturbation; WOOD CHIPS COMMON
				C2825	8.06	0.14	CLAY	Medium to dark grey - brown, firm, low plasticity (clay), good core - unbroken, coaly wisps; CARBONACEOUS WISPS COMMON

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2825	8.32	0.26	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common bioturbation; Additional features include: common woody wisps; WOOD WISPS COMMON
				C2825	8.47	0.15	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C2825	8.72	0.25	CLAY	Medium to dark grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, common bioturbation; Additional features include: common woody wisps; PLANAR CARBONACEOUS PARTING DECREASING IN ABUNDANCE TOWARDS BASE OF UNIT WOOD WISPS COMMON
				C2825	8.88	0.16	CLAY	Sandy, light to medium grey - brown, firm, low plasticity (clay), good core - unbroken, gradational base; HORIZONTAL DARTINGS
				C2825	9.01	0.13	CLAY	Sandy, medium to dark grey, firm, low plasticity (clay), good core - unbroken, very fine grained, common woody wisps; WOOD WISPS COMMON
				C2825	9.22	0.21	CLAY	Silty, medium to dark grey - brown, firm, low plasticity (clay), good core - unbroken, common woody fragments; Additional features include: occasional ligneous wisps.
				C2825	9.29	0.07	CLAY	Light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, common ligneous wisps.
				C2825	9.32	0.03	SAND	Ligneous, medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, common woody fragments.
				C2825	9.37	0.05	CLAY	Sandy, light to medium grey - brown, firm, low plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2825	9.56	0.19	CLAY	Medium to dark grey - brown, firm, high plasticity (clay), good core - unbroken; PLANAR PARTINGS LESS THAN 4 DEGREES
				C2825	9.61	0.05	CLAY	Sandy, mottled brown - grey, firm, low plasticity (clay), good core - unbroken, fine grained, sharp planar base, beds dip at 05 degrees.
				TOP OF SEAM LA1		9.61		
		LA1		C2826	9.66	0.05	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, gradational base.
		LA1		C2826	9.73	0.07	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LA1		C2826	9.81	0.08	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LA1		C2826	9.92	0.11	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, occasional resin aggregates.
		LA1		C2826	9.95	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional resin aggregates.
		LA1		C2826	10.16	0.21	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile, rare resin aggregates; Additional features include: occasional bioturbation; RARE CLAY LENSES
		LA1		C2827	10.28	0.12	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
		LA1		C2827	10.44	0.16	LIGNITE	Dark brown, firm, coal cleat, friable, sparse, subvertical joints, vertical joints, good core - unbroken, subfissile, occasional bioturbation.
		LA1			10.46	0.02	CORE LOSS	
		LA1		C0019	10.51	0.05	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LA2		C2830	11.76	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LA2		C2830	12.17	0.41	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, subfissile, occasional bioturbation.
		LA2		C2830	12.22	0.05	LIGNITE	Humified, gelatinous, dark brown - black, soft, good core - unbroken.
		LA2		C2830	12.87	0.65	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile, gradational base, common resin aggregates; Additional features include: occasional bioturbation.
		LA2		C2830	13.20	0.33	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, subfissile, occasional woody fragments;
INCREASED CLAY OVER ABOVE UNIT								
		LA2		C2831	13.50	0.30	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, subfissile, occasional woody fragments;
INCREASED CLAY OVER ABOVE UNIT								
		LA2		C0020	13.53	0.03	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, fissile;
SLIGHT CLAY CONTENT								
		LA2		C0020	13.55	0.02	LIGNEOUS CLAY	Dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		LA2		C0020	13.58	0.03	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, gradational base.
					BASE OF SEAM LA2	13.58	1.85	
				C2832	13.80	0.22	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2832	13.88	0.08	CLAY	Ligneous, dark brown - grey, firm, friable, good core - unbroken.
				C2832	13.98	0.10	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, rare resin aggregates.
				C2832	14.11	0.13	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C2832	14.14	0.03	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, occasional bioturbation.
				C2832	14.27	0.13	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.
				C2832	14.33	0.06	LIGNEOUS CLAY	Dark brown, firm, friable, good core - unbroken.
				C2832	14.37	0.04	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C2832	14.40	0.03	CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken, sharp planar base, beds dip at 00 degrees.
					TOP OF SEAM LA3		14.40	
		LA3		C2833	14.54	0.14	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, rare resin aggregates; Additional features include: occasional bioturbation; SLIGHT CLAY CONTENT
		LA3		C2833	14.68	0.14	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LA3		C2833	14.76	0.08	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LA3		C2833	14.78	0.02	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (clay), good core - unbroken.
		LA3		C2833	14.89	0.11	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, gradational base.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LA3		C2833	15.01	0.12	CLAY	Ligneous, dark brown, firm, high plasticity (clay), good core - unbroken.
		LA3		C2833	15.06	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base.
		LA3		C2833	15.18	0.12	LIGNEOUS CLAY	Dark brown - black, firm, friable, good core - unbroken.
		LA3		C2834	15.37	0.19	LIGNITE	Dark brown, firm, friable, good core - unbroken;
							RARE CLAY BANDS	
		LA3		C2834	15.50	0.13	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, rare resin aggregates.
		LA3		C2835	15.66	0.16	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
		LA3		C2835	15.72	0.06	CLAY	Ligneous, dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous fragments.
		LA3		C2835	15.82	0.10	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LA3		C0021	15.84	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, gradational base.
		LA3		C0021	15.88	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LA3		C0021	15.94	0.06	INFERIOR LIGNITE	Dark brown - black, firm, friable, good core - unbroken;
							RARE CLAY BANDS	
		LA3		C0021	15.95	0.01	CLAY	Ligneous, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
		LA3		C0021	15.98	0.03	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LA3		C0021	16.01	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LA3		C0021	16.06	0.05	LIGNITE	Dark brown, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LA3		C0021	16.09	0.03	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.
		LA3		C0021	16.15	0.06	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LA3		C0021	16.23	0.08	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base.
		LA3		C0021	16.45	0.22	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LA3			16.51	0.06	CORE LOSS	
		LA3		C2836	16.53	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, subfissile, occasional bioturbation.
		LA3		C2836	16.55	0.02	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.
		LA3		C2836	16.61	0.06	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LA3		C2836	16.63	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
		LA3		C2836	16.67	0.04	INFERIOR LIGNITE	Clayey, gelatinous, dark brown - black, soft, good core - unbroken, fissile, gradational base.
		LA3		C2836	16.74	0.07	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LA3		C2836	16.76	0.02	LIGNEOUS CLAY	Dark brown - black, firm, friable, good core - unbroken.
		LA3		C2836	16.88	0.12	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LA3		C2836	16.94	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken; CLAY BANDS AND WISPS COMMON
		LA3		C2836	16.96	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken; Bands include: LIGNITE, dark brown, firm, friable, good core - unbroken.
		LA3		C2837	17.84	0.88	LIGNITE	Dark brown, firm, friable, good core - unbroken.

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STRAT NAME	SEG NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LA3		C2837	18.24	0.40	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, subfissile; SOME CLAY INCREASED MOISTURE OVER PREVIOUS UNIT
		LA3		C2837	18.30	0.06	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LA3		C2838	18.42	0.12	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LA3		C2838	18.45	0.03	INFERIOR LIGNITE	Dark brown - black, firm, friable, good core - unbroken, subfissile.
		LA3		C2838	18.55	0.10	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LA3		C2838	18.59	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LA3		C2838	18.62	0.03	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
					BASE OF SEAM LA3	18.62	4.22	
				C2839	18.81	0.19	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
				C2839	18.97	0.16	CLAY	Ligneous, medium to dark brown - black, firm, high plasticity (organic), good core - unbroken, common ligneous wisps; Additional features include: rare woody fragments.
				C2839	18.98	0.01	CLAY	Ligneous, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, common bioturbation.
				C2839	19.03	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
				C2839	19.11	0.08	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
					19.50	0.39	CORE LOSS	
				C2840	19.57	0.07	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, rare resin aggregates.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2840	19.62	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2840	19.69	0.07	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, gradational base.
				C2840	19.72	0.03	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, gradational base.
				C2840	19.82	0.10	CLAY	Ligneous, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, abundant bioturbation.
				C2840	19.92	0.10	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base, common woody fragments; Additional features include: rare resin aggregates.
				C2840	19.99	0.07	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken; CLAY WISPS COMMON
				C2840	20.08	0.09	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C2840	20.10	0.02	LIGNEOUS CLAY	Medium to dark brown - grey, firm, friable, good core - unbroken.
				C2840	20.15	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken, gradational base.
				C2840	20.25	0.10	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
				C2840	20.34	0.09	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, sharp planar base, beds dip at 05 degrees; WOOD WISPS COMMON
				TOP OF SEAM LA4		20.34		
		LA4		C2841	20.42	0.08	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LA4		C2842	20.51	0.09	INFERIOR LIGNITE	Clayey, dark black - brown, firm, friable, good core - unbroken.
		LA4		C2842	20.79	0.28	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		LA4		C0022	20.84	0.05	LIGNITE	Dark brown, firm, friable, good core - unbroken, gradational base, rare resin aggregates; Additional features include: occasional bioturbation; CLAY WISPS RARE
		LA4		C0022	20.86	0.02	CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		LA4		C0022	20.99	0.13	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, gradational base, abundant bioturbation.
		LA4		C0022	21.28	0.29	LIGNITE	Dark brown, firm, friable, good core - unbroken, subfissile, gradational base, occasional bioturbation.
		LA4		C0022	21.37	0.09	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
BASE OF SEAM LA4					21.37	1.03		
					21.61	0.24	CORE LOSS	
				C2843	21.68	0.07	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
				C2843	21.75	0.07	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sparse bioturbation.
				C2843	21.94	0.19	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation; Bands include: LIGNITE, dark brown - black, firm, friable, common bioturbation.
				C2843	22.06	0.12	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, abundant bioturbation; LIGNEOUS BANDS COMMON

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2844	22.54	0.48	CLAY	Light to medium grey, firm, slickensides on fracture, high plasticity (clay), common, subhorizontal joints, angle of joints 40 degrees, good core - unbroken, sparse bioturbation; PARALLEL SLICKENSIDES WITH APPROXIMATELY 9 CENTIMETER SPACING AT APPROXIMATELY 45 DEGREE ANGLE
				C2844	22.95	0.41	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, sparse bioturbation; Additional features include: occasional ligneous wisps.
				C2844	23.13	0.18	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
				C2844	23.31	0.18	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
				C2844	23.33	0.02	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, common bioturbation.
				C2844	23.36	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2844	23.40	0.04	CLAY	Light to medium brown, firm, low plasticity (clay), good core - unbroken.
				C2844	23.42	0.02	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, gradational base.
				C2844	23.80	0.38	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, rare ligneous wisps; LIGNEOUS WISPS INCREASED TOWARDS BASE
				C2845	24.16	0.36	INFERIOR LIGNITE	Woody textured, clayey, medium to dark brown - black, firm, friable, good core - unbroken, fissile.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2845	24.26	0.10	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken; LIGNEOUS BANDS COMMON
				C2845	24.28	0.02	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, fissile.
				C2845	24.29	0.01	CLAY	Light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, common woody fragments.
				C2845	24.32	0.03	INFERIOR LIGNITE	Clayey, woody textured, medium to dark brown, firm, friable, good core - unbroken, fissile.
				C2845	24.43	0.11	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
				C2845	24.60	0.17	CLAY and INFERIOR LIGNITE	Interbedded 60:40. CLAY: light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, abundant woody fragments; INFERIOR LIGNITE: clayey, dark brown, firm, friable, good core - unbroken, fissile.
				C2845	24.75	0.15	CLAY and CLAY	Interbedded 80:20. CLAY: light to medium brown - grey, firm, low plasticity (clay), good core - unbroken; CLAY: light to medium brown, firm, low plasticity (clay), good core - unbroken, abundant woody fragments; WOODY BANDS
				R	35.51	10.76	NO RECORD	
				C2846	35.98	0.47	CLAY	Light to medium grey, firm, low plasticity (clay), good core - unbroken, uniform, rare bioturbation.
				C2846	36.07	0.09	CLAY	Silty, light to medium grey, firm, low plasticity (clay), good core - unbroken, uniform, rare bioturbation; SANDY INFILLING
				C	38.51	2.44	CORE LOSS	

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2847	38.72	0.21	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, uniform, rare bioturbation; SANDY INFILLINGS
				C2847	38.79	0.07	SAND	Sideritic, light to medium brown - grey, high strength, tough, core broken, fine grained.
				C2847	39.20	0.41	CLAY	Silty, light to medium grey, firm, high plasticity (clay), good core - unbroken.
				C2847	39.39	0.19	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken; SOME SILT, WOODY BANDS COMMON
				C2847	39.80	0.41	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, occasional bioturbation; CLAY INFILLING
				C2847	40.02	0.22	CLAY	Silty, light to medium grey, firm, high plasticity (clay), good core - unbroken, rare bioturbation; FINE SIDERITE ON CLEATS
				C2847	40.30	0.28	CLAY	Silty, light to medium grey, firm, high plasticity (clay), good core - unbroken, rare bioturbation.
				C2847	40.33	0.03	SAND	Sideritic, light to medium buff, low strength, brittle, core broken, fine grained.
					41.09	0.76	CORE LOSS	
				R	43.77	2.68	CLAY	Light to medium grey, firm, high plasticity (clay), occasional ligneous wisps; Bands include: CLAY, silty, light to medium grey, firm, low plasticity (clay), occasional ligneous wisps; Bands include: SIDERITE, light to medium buff, low strength, brittle.

TOP OF SEAM LB1	43.77
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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB1		R	44.27	0.50	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 50:50. INFERIOR LIGNITE: clayey, woody textured, dark brown, firm, friable; LIGNEOUS CLAY: dark brown, firm, low plasticity (organic).
		LB1		C2848	44.38	0.11	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C2848	44.41	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
		LB1		C2848	44.62	0.21	INFERIOR LIGNITE	Clayey, dark brown - black, firm, coal cleat, low plasticity (organic), sparse, subvertical joints, vertical joints, good core - unbroken, gradational base.
		LB1		C2848	44.67	0.05	LIGNITE	Woody textured, dark brown - black, firm, coal cleat, friable, sparse, subvertical joints, vertical joints, good core - unbroken, fissile.
		LB1		C2848	44.80	0.13	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile.
		LB1		C2848	44.97	0.17	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
WOODY IN PARTS								
		LB1		C2848	44.98	0.01	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
OCCASIONAL CLAY WISPS								
		LB1		C2849	45.06	0.08	LIGNITE	Dark brown - black, firm, slickensides on fracture, friable, sparse, oblique joints, angle of joints 40 degrees, good core - unbroken, fissile.
		LB1		C2849	45.07	0.01	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB1		C2849	45.25	0.18	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, subfissile.
		LB1		C2849	45.32	0.07	LIGNITE	Medium to dark black - brown, firm, friable, good core - unbroken, fissile, gradational base.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB1		C0023	45.43	0.11	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile, occasional woody fragments.
		LB1		C0023	45.47	0.04	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
		LB1		C0023	45.52	0.05	LIGNEDUS CLAY	Dark brown - black, firm, friable, good core - unbroken, gradational base.
		LB1		C0023	45.57	0.05	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
		LB1		C0023	45.62	0.05	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile.
		LB1		C0023	45.65	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, slickensides on fracture, friable, sparse, oblique joints, angle of joints 60 degrees, good core - unbroken.
		LB1		C0023	45.92	0.27	LIGNITE	Dark brown - black, firm, slickensides on fracture, friable, sparse, oblique joints, angle of joints 60 degrees, good core - unbroken, fissile.
		LB1		C0023	45.94	0.02	LIGNITE	Dark brown - black, firm, friable, good core - unbroken;
								CLAY WISPS COMMON
		LB1		C0023	45.99	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		LB1		C0023	46.07	0.08	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken.
					BASE OF SEAM LB1	46.07	2.30	
				C2850	46.18	0.11	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, sharp oblique base, beds dip at 50 degrees;
								PARTING AT 46.10 METRES, OBLIQUE AT 30 DEGREES
				C2850	46.19	0.01	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2850	46.40	0.21	LIGNEOUS CLAY and LIGNITE	Intermixed; LIGNEOUS CLAY: dark brown, firm, slickensides on fracture, friable, sparse, oblique joints, angle of joints 50 degrees, good core - unbroken, sharp oblique base, beds dip at 60 degrees, abundant woody fragments; LIGNITE: woody textured, dark brown, firm, friable, good core - unbroken; INTERNAL DIP WITH UNIT AT 60 DEGREES
				C2850	46.61	0.21	CLAY	Light to medium brown, firm, low plasticity (clay), good core - unbroken, sharp planar base, beds dip at 05 degrees, occasional bioturbation.
				C2850	46.66	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base; OCCASIONAL CLAY BANDS
				C2850	46.76	0.10	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, sharp planar base, beds dip at 03 degrees.
				C2850	46.79	0.03	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile, gradational base.
				C2850	46.85	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base.
				C2850	46.86	0.01	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, gradational base.
				C2850	46.87	0.01	INFERIOR LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken.
					47.05	0.18	CORE LOSS	
					47.10	0.05	CORE LOSS	
				C2851	47.19	0.09	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
				C2851	47.21	0.02	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2851	47.23	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken.
				C2851	47.32	0.09	LIGNITE	Woody textured, clayey, dark brown - black, soft, friable, good core - unbroken, fissile.
				C2851	47.36	0.04	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2851	47.38	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2851	47.41	0.03	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
				C2851	47.60	0.19	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
							CLAY WISPS COMMON	
				C2851	47.61	0.01	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
				C2851	47.64	0.03	LIGNITE	Woody textured, clayey, medium to dark brown - grey, firm, friable, good core - unbroken, gradational base.
				C2852	47.70	0.06	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, gradational base.
				C2852	47.71	0.01	CLAY	Ligneous, dark brown - black, firm, high plasticity (organic), good core - unbroken.
				C2852	47.82	0.11	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base.
							CLAY WISPS COMMON	
				C2852	47.86	0.04	LIGNEOUS CLAY	Medium to dark brown - grey, firm, high plasticity (organic), good core - unbroken.
				C2852	47.89	0.03	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C2852	47.92	0.03	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2852	48.00	0.08	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2852	48.08	0.08	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, subfissile.
				C2852	48.17	0.09	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (organic), good core - unbroken.
				TOP OF SEAM LB2		48.17		
		LB2		C2853	48.24	0.07	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
		LB2		C2853	48.28	0.04	INFERIOR LIGNITE	Clayey, dark black - brown, firm, friable, good core - unbroken.
		LB2		C2853	48.32	0.04	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
		LB2		C2853	48.39	0.07	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, fissile.
		LB2		C2853	48.45	0.06	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, fissile.
		LB2		C2853	48.48	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
		LB2		C2853	48.52	0.04	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile.
		LB2		C2853	48.53	0.01	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
		LB2		C2854	48.95	0.42	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, subfissile, gradational base.
		LB2		C2854	49.17	0.22	LIGNITE	Dark brown, firm, coal cleat, friable, sparse, subvertical joints, vertical joints, good core - unbroken, fissile.
		LB2		C2854	49.24	0.07	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken, occasional ligneous fragments; Additional features include: rare resin aggregates.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C2854	49.39	0.15	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base.
		LB2		C2855	49.45	0.06	CLAY	Ligneous, dark brown, firm, high plasticity (organic), good core - unbroken.
		LB2		C2855	49.48	0.03	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (organic), good core - unbroken, sharp planar base, beds dip at 00 degrees, occasional bioturbation.
		LB2		C2855	49.51	0.03	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C2855	49.54	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C2855	49.64	0.10	LIGNEOUS CLAY and LIGNITE	Interbedded 80:20. LIGNEOUS CLAY: dark brown - black, firm, friable, good core - unbroken; LIGNITE: dark brown - black, firm, friable, good core - unbroken.
		LB2		C2855	49.72	0.08	LIGNEOUS CLAY	Dark brown, firm, friable, good core - unbroken, rare bioturbation.
		LB2		C2855	49.78	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C2856	49.96	0.18	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, fissile, gradational base;
							DECREASED FISSILITY AND INCREASED	
							CLAY CONTENT TOWARDS BASE	
		LB2		C2856	49.97	0.01	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C2856	50.02	0.05	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LB2		C2856	50.29	0.27	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C2857	50.35	0.06	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken; LOWER STRENGTH THAN OVERLYING UNIT
		LB2		C2857	50.46	0.11	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
		LB2		C2857	50.57	0.11	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LB2		C2858	50.62	0.05	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile.
		LB2		C2858	50.66	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		LB2		C2858	50.71	0.05	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken, common ligneous fragments.
		LB2		C2858	50.78	0.07	LIGNITE	Dark brown - black, firm, coal cleat, friable, sparse, subvertical joints, vertical joints, good core - unbroken, fissile.
		LB2		C2858	50.83	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		LB2		C2858	50.89	0.06	LIGNITE	Dark brown - black, firm, coal cleat, friable, sparse, subvertical joints, vertical joints, good core - unbroken, fissile.
		LB2		C2858	50.94	0.05	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
		LB2		C2858	51.15	0.21	LIGNITE	Clayey, dark brown - black, firm, coal cleat, friable, common, subvertical joints, vertical joints, good core - unbroken, fissile; CLEATS IRREGULARLY ORIENTATED
		LB2		C2858	51.24	0.09	LIGNITE	Dark brown, firm, friable, good core - unbroken, subfissile, common resin aggregates.
		LB2		C2858	51.25	0.01	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
	LB2			C2858	51.33	0.08	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, abundant resin aggregates.
	LB2			C2858	51.42	0.09	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, abundant resin aggregates.
	LB2			C2858	51.46	0.04	LIGNITE	Dark brown, firm, friable, good core - unbroken.
	LB2			C2858	51.48	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
	LB2			C2858	51.58	0.10	LIGNITE	Woody textured, clayey, dark brown, firm, friable, good core - unbroken, gradational base.
	LB2			C2859	51.75	0.17	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, rare woody fragments; Additional features include: common bioturbation.
	LB2			C2859	51.81	0.06	LIGNEOUS CLAY	Dark brown - black, firm, friable, good core - unbroken, gradational base.
	LB2			C2860	52.21	0.40	LIGNITE	Clayey, dark brown - black, firm, coal cleat, friable, sparse, oblique joints, angle of joints 50 degrees, good core - unbroken, subfissile.
	LB2			C0024	52.27	0.06	LIGNITE	Woody textured, dark black - brown, firm, friable, good core - unbroken, fissile.
	LB2			C0024	52.52	0.25	LIGNITE	Clayey, woody textured, dark black - brown, firm, coal cleat, friable, sparse, subvertical joints, vertical joints, good core - unbroken, fissile.
	LB2			C0024	52.64	0.12	INFERIOR LIGNITE	Clayey, dark brown - black, firm, uneven fracture, friable, sparse, oblique joints, angle of joints 50 degrees, good core - unbroken, gradational base.
								CLEAT ORIENTATED IN OPPOSITE DIRECTION TO FRACTURE IN PREVIOUS UNIT
	LB2			C0024	52.82	0.18	LIGNITE	Clayey, dark brown - black, firm, even fracture, friable, sparse, oblique joints, angle of joints 40 degrees, good core - unbroken.
	LB2			C0024	52.84	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		LB2		C0024	52.86	0.02	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
		LB2		C0024	52.88	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, high plasticity (organic), good core - unbroken, gradational base.
		LB2		C2861	52.90	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken.
		LB2		C2861	52.99	0.09	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp oblique base, beds dip at 15 degrees.
		LB2		C2861	53.04	0.05	CLAY	Medium to dark grey - brown, firm, high plasticity (clay), good core - unbroken.
		LB2		C2861	53.08	0.04	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
		LB2		C2861	53.10	0.02	CLAY	Ligneous, medium to dark brown - grey, firm, friable, good core - unbroken.
		LB2		C2861	53.17	0.07	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		LB2		C2861	53.21	0.04	LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken.
		LB2		C2861	53.38	0.17	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees.
		LB2		C2861	53.53	0.15	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken, gradational base, common resin aggregates.
		LB2		C2861	53.58	0.05	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (organic), good core - unbroken, sharp irregular base, beds dip at 10 degrees.
		LB2		C2861	53.69	0.11	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		LB2		C2862	53.74	0.05	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (organic), good core - unbroken.
		LB2		C2862	53.97	0.23	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.

BASE OF SEAM LB2	53.97	5.80
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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2863	54.05	0.08	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2863	54.10	0.05	CLAY	Ligneous, medium to dark brown - grey, firm, friable, good core - unbroken
				C2863	54.23	0.13	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2863	54.26	0.03	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
				C2863	54.34	0.08	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2863	54.37	0.03	LIGNEOUS CLAY	Dark brown - black, firm, friable, good core - unbroken.
				C2863	54.55	0.18	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, gradational base.
				C2864	54.72	0.17	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, common ligneous wisps.
				C2864	54.86	0.14	LIGNEOUS CLAY	Dark brown - grey, firm, high plasticity (organic), good core - unbroken, gradational base, common ligneous wisps.
				C2864	55.01	0.15	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2864	55.09	0.08	CLAY	Medium to dark grey - brown, firm, high plasticity (clay), good core - unbroken.
				C2864	55.14	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base.
				C2864	55.17	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C2864	55.21	0.04	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile.
				C2864	55.42	0.21	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken, common bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2864	55.46	0.04	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, high plasticity (organic), good core - unbroken, fissile.
				C2864	55.48	0.02	LIGNEOUS CLAY	Medium to dark brown - grey, firm, high plasticity (organic), good core - unbroken.
				C2864	55.54	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken;
							WITH ABUNDANT CLAY RICH BANDS	
				C2864	55.71	0.17	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (organic), good core - unbroken, occasional ligneous wisps.
				C2864	55.78	0.07	LIGNEOUS CLAY	Medium to dark brown - grey, firm, friable, good core - unbroken.
				C2864	55.92	0.14	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken; Bands include: CLAY, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C2864	55.96	0.04	CLAY	Ligneous, dark brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base.
				C2864	56.03	0.07	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken; Bands include: CLAY, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2864	56.11	0.08	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C2864	56.17	0.06	LIGNITE	Clayey, medium to dark black - brown, firm, friable, good core - unbroken.
				C2864	56.24	0.07	INFERIOR LIGNITE	Clayey, medium to dark black - brown, firm, friable, good core - unbroken.
				C	56.67	0.43	CORE LOSS	
				C2865	56.74	0.07	INFERIOR LIGNITE	Woody textured, clayey, medium to dark black - brown, firm, friable, good core - unbroken, gradational base.

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				C2865	56.78	0.04	LIGNEDUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C2865	56.80	0.02	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile.
				C2865	56.84	0.04	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken.
				C2865	56.88	0.04	LIGNEDUS CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2865	56.98	0.10	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
							WITH COMMON CLAY WISPS	
				C2865	57.11	0.13	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, fissile, gradational base.
				C2865	57.13	0.02	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2865	57.17	0.04	INFERIOR LIGNITE	Woody textured, clayey, medium to dark brown - black, firm, friable, good core - unbroken, gradational base.
							WITH COMMON CLAY WISPS	
				C2865	57.21	0.04	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2865	57.26	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
				C2865	57.29	0.03	CLAY	Medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.
				C2865	57.31	0.02	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken, gradational base.
				C2865	57.34	0.03	CLAY	Medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.

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LAUNCESTON.

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LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2865	57.36	0.02	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken.
				C2865	57.37	0.01	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C2865	57.62	0.25	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fissile, gradational base; INCREASED FISSILITY AND SOFTNESS TOWARDS BASE
				C2865	57.66	0.04	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.
				C2865	57.75	0.09	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken, common ligneous wisps.
				C2865	57.81	0.06	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, low plasticity (organic), good core - unbroken, gradational base, common woody fragments.
				C2865	57.90	0.09	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2865	57.96	0.06	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2865	58.06	0.10	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2866	58.12	0.06	LIGNEOUS CLAY	Medium to dark brown - black, firm, high plasticity (organic), good core - unbroken, abundant ligneous wisps.
				C2866	58.15	0.03	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C2866	58.24	0.09	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken.
				C2866	58.36	0.12	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, abundant bioturbation.

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GEOLOGICAL LOG REPORT

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2866	58.44	0.08	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, gradational base, abundant ligneous wisps.
				C2866	58.62	0.18	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, gradational base, occasional bioturbation. Additional features include: occasional resin aggregates.
				C2866	58.75	0.13	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, abundant bioturbation.
				C2866	58.85	0.10	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, rare bioturbation. Additional features include: abundant ligneous fragments.
				C2866	58.90	0.05	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, subfissile.
				C2866	58.98	0.08	LIGNEOUS CLAY	Medium to dark brown - black, firm, friable, good core - unbroken, common ligneous wisps.
				C2866	59.06	0.08	CLAY	Light to medium brown - grey, firm, high plasticity (clay), gradational base.
				C2866	59.14	0.08	CLAY	Light to medium brown, firm, high plasticity (clay).
				C2866	59.28	0.14	LIGNITE	Medium to dark brown, firm, friable, rare resin aggregates; CLAY WISPS OCCASIONAL
				C2866	59.36	0.08	CLAY	Light to medium brown - grey, firm, high plasticity (clay), sharp oblique base, beds dip at 45 degrees, abundant bioturbation.
				C2866	59.49	0.13	LIGNITE	Clayey, medium to dark brown - black, firm, friable.
				C2866	59.57	0.08	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable.
				R	60.80	1.23	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, fissile.
				R	65.50	4.70	CLAY	Ligneous, medium to dark brown, soft, low plasticity (clay); Bands include: INFERIOR LIGNITE, clayey, dark brown, firm, friable.
				R	68.40	2.90	INFERIOR LIGNITE	Clayey, dark brown, firm, friable.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	68.70	0.30	CLAY	Carbonaceous, light to medium brown - grey, firm, high plasticity (clay).
				R	71.20	2.50	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic); Bands include: LIGNEOUS CLAY, medium to dark brown, firm, high plasticity (organic).
				R	72.50	1.30	CLAY	Light to medium brown - grey, firm, high plasticity (clay).
				R	76.20	3.70	CLAY	Carbonaceous, medium to dark grey - brown, firm, high plasticity (clay); Bands include: LIGNEOUS CLAY, medium to dark brown, firm, high plasticity (organic); Bands include: INFERIOR LIGNITE, clayey, dark brown, firm, low plasticity (organic).
				R	79.00	2.80	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic); Bands include: LIGNEOUS CLAY, medium to dark brown, firm, high plasticity (organic).
				R	79.47	0.47	NO RECORD	

LOG FROM 59.57 METRES INTERPRETED FROM

GEOPHYSICAL LOG. CUTTING RETURN POOR DURING ROTARY CHIP DRILLING

END OF BORE AT 79.47 m

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LAUNCESTON

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Easting: 495520.000
Northing: 5413340.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 145.00

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: HINRICHS
Drilling Contractor: H. J. Stacpoole
Geophysical Logging: Murdoch Geophysics

Datum: Approximate Level - Not Surveyed

Sheet Reference:

County:

Sheet Index:

Parish:

Total Depth: 63.55

Portion:

Drilling Commenced: 25/11/81

Drilling Completed: 28/11/81

Inclination:

Plug Depths:

Azimuth:

Hole Diameter: 180

Standing Water Level: 3.3

Core Diameter: 100

Cased Depths:

Core Barrel: Triefus Triple Barrel

Available Data: Gamma Logs

Density Logs

Resistivity Logs

Caliper Logs

Drill Bits: Rollers

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					1.00	1.00	CLAY	Sandy, medium to dark brown - orange, firm, low plasticity (clay), fine and medium grained; WITH FINE GRAVEL
					1.50	0.50	GRAVEL	Clayey, medium to dark brown - yellow, firm, low plasticity (clay), medium grained.
					3.50	2.00	GRAVEL	Light to medium brown, medium dense, non-plastic.
					5.50	2.00	SAND	Woody textured, medium to dark brown, medium dense, non-plastic; BANDS OF CARBONACEOUS CLAY
					8.00	1.50	CLAY	Sandy, medium to dark brown, firm, low plasticity (clay), fine and medium grained.
					8.50	0.50	SAND	Woody textured, clayey, medium to dark brown, medium dense, non-plastic; 180 MM HOLE DRILLED SO CORE BARREL CLEARS HOLE WALLS
TE					8.54	0.04	CORE LOSS	
TE				C2635	8.68	0.14	CLAY	Carbonaceous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base; INCREASED CARBONACEOUS CONTENT TOWARDS BASE
TE				C2635	8.72	0.04	CLAY	Carbonaceous, medium to dark grey - brown, firm, low plasticity (clay), good core - unbroken, gradational base.
TE				C2635	8.81	0.09	CLAY	Carbonaceous, ligneous, medium to dark black - brown, firm, high plasticity (clay), good core - unbroken, gradational base; LOW STRENGTH CLAY, CRUMBLES READILY

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA	
TE				C2635	8.84	0.03	CLAY	Carbonaceous, medium to dark grey - brown, firm, low plasticity (clay), good core - unbroken.	
TE				C2636	8.88	0.04	INFERIOR LIGNITE	Clayey, medium to dark black - brown, firm, friable, good core - unbroken.	
TE				C2636	8.91	0.03	INFERIOR LIGNITE	Dark black - brown, firm, friable, good core - unbroken, fissile;	
CLAY CONTENT LESS THAN PREVIOUS									
UNIT									
TE				C2636	8.93	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, subfissile, gradational base.	
TE				C2636	8.98	0.05	CLAY	Carbonaceous, light to medium brown - black, firm, low plasticity (clay), good core - unbroken, gradational base.	
TE				C2636	9.06	0.08	INFERIOR LIGNITE	Clayey, dark black - brown, firm, friable, good core - unbroken.	
TE				C2636	9.18	0.12	CLAY	Carbonaceous, light to medium brown - black, firm, low plasticity (clay), good core - unbroken.	
TE				C2636	9.19	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.	
					TOP OF SEAM PB2		9.19		
TE		PB2		C2637	9.46	0.27	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken.	
TE		PB2		C2637	9.57	0.11	LIGNITE	Woody textured, medium to dark black - brown, firm, friable, core crushed.	
TE		PB2		C2638	9.61	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, coal cleat, low plasticity (organic), sparse, subvertical joints, vertical joints, core crushed.	
TE		PB2		C2638	9.70	0.09	LIGNITE	Woody textured, clayey, medium to dark black - brown, firm, friable, core crushed.	

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE		PB2		C2638	9.81	0.11	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
TE		PB2		C2638	9.84	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
TE		PB2		C2638	9.90	0.06	INFERIOR LIGNITE	Woody textured, clayey, medium to dark brown, firm, friable, good core - unbroken.
TE		PB2		C2639	10.03	0.13	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, sharp planar base, beds dip at 05 degrees.
TE		PB2		C2639	10.05	0.02	CLAY	Ligneous, light to medium grey - brown, firm, low plasticity (clay), good core - unbroken, sharp planar base, beds dip at 05 degrees.
TE		PB2		C2639	10.34	0.29	INFERIOR LIGNITE	Dark brown, firm, friable, good core - unbroken, sharp planar base, beds dip at 05 degrees, rare resin aggregates.
TE		PB2		C2639	10.35	0.01	CLAY	Ligneous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, sharp planar base, beds dip at 05 degrees.
TE		PB2		C2639	10.49	0.14	LIGNITE	Humified, medium to dark brown - black, firm, friable, good core - unbroken, sharp planar base, beds dip at 05 degrees.
TE		PB2		C2639	10.64	0.15	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken, gradational base.
TE		PB2		C2640	10.86	0.22	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, gradational base.
TE		PB2		C2640	11.27	0.41	LIGNITE	Humified, dark brown, firm, friable, good core - unbroken, gradational base.
TE		PB2		C2640	11.32	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken.
TE		PB2		C2641	11.53	0.21	INFERIOR LIGNITE	Clayey, humified, medium to dark black - brown, soft, coal cleat, common, subvertical joints, vertical joints, good core - unbroken, subfissile.
								GELATINOUS, HIGHER APPARENT MOISTURE CONTENT THAN PREVIOUS LIGNITES

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE		PB2		C2641	11.64	0.11	INFERIOR LIGNITE	Humified, clayey, medium to dark black - brown, soft, coal cleat, common, subvertical joints, vertical joints, good core - unbroken; GELATINOUS LIGNITE
-----					BASE OF SEAM PB2	11.64	2.45	
TE				C2642	11.67	0.03	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
TE				C2642	11.76	0.09	INFERIOR LIGNITE	Humified, medium to dark black - brown, soft, good core - unbroken; GELATINOUS LIGNITE, SOFT GELATINOUS HUMIC LIGNITES HAVE A HIGHER APPARENT MOISTURE CONTENT THAN FIRM-FRIABLE LIGNITE
TE				C2642	11.95	0.19	INFERIOR LIGNITE	Clayey, medium to dark black - brown, firm, friable, good core - unbroken.
TE				C2642	11.97	0.02	LIGNITE	Woody textured, medium to dark brown, firm, friable, good core - unbroken, fissile.
TE				C2642	12.04	0.07	INFERIOR LIGNITE	Clayey, humified, medium to dark black - brown, soft, good core - unbroken; GELATINOUS LIGNITE
TE				C2642	12.09	0.01	LIGNITE	Woody textured, medium to dark brown - black, firm, friable, good core - unbroken, fissile.
TE				C2642	12.09	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic).
TE				C2642	12.15	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, friable.
-----					TOP OF SEAM PB3	12.15		

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LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE		PB3		C2643	12.27	0.12	LIGNITE	Medium to dark black - brown, firm, friable, gradational base.
TE		PB3		C2643	12.41	0.14	LIGNITE	Medium to dark black - brown, firm, friable, gradational base;
								APPARENT HIGHER MOISTURE CONTENT THAN PREVIOUS UNIT
TE		PB3		C2643	12.53	0.12	INFERIOR LIGNITE	Humified, clayey, dark black - brown, soft, friable, subfissile, sharp planar base, beds dip at 00 degrees; FRIABLE TO LOW PLASTICITY LIGNITE
TE		PB3		C2644	12.56	0.03	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (organic), good core - unbroken, sharp planar base.
TE		PB3		C2644	12.59	0.03	INFERIOR LIGNITE	Humified, clayey, dark black - brown, soft, friable, good core - unbroken, subfissile, sharp planar base; FRIABLE TO LOW PLASTICITY LIGNITE
TE		PB3		C2644	12.62	0.03	LIGNITE	Humified, dark black - brown, firm, friable, good core - unbroken; SOME WOODY TEXTURE DEVELOPED
TE		PB3		C2644	12.84	0.22	INFERIOR LIGNITE	Humified, clayey, dark black - brown, soft, friable, good core - unbroken, subfissile; FRIABLE TO PUGGY LIGNITE
TE		PB3		C2644	12.87	0.03	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
TE		PB3		C2644	13.16	0.29	INFERIOR LIGNITE	Humified, dark black - brown, soft, good core - unbroken, subfissile; GELATINOUS, APPROX 20% WOODY BANDS

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE		PB3		C2644	13.27	0.11	INFERIOR LIGNITE	Humified, dark black - brown, firm, good core - unbroken; GELATINOUS LIGNITE
TE		PB3		C2645	13.38	0.11	LIGNEOUS CLAY	Medium to dark brown - black, firm, low plasticity (organic), good core - unbroken.
TE		PB3		C2645	13.41	0.03	LIGNITE	Woody textured, dark black - brown, firm, friable, core crushed.
TE		PB3		C2645	13.48	0.07	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken.
TE		PB3		C2645	13.65	0.17	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken.
TE		PB3		C2645	13.83	0.18	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, sharp planar base, beds dip at 00 degrees.
TE		PB3		C2645	13.90	0.07	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
TE		PB3		C2645	13.98	0.08	INFERIOR LIGNITE	Clayey, medium to dark black - brown, firm, friable, good core - unbroken, gradational base.
TE		PB3		C2645	14.07	0.09	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken;
								INCREASED CLAY CONTENT OVER
								PREVIOUS UNIT
TE		PB3		C2646	14.49	0.42	LIGNITE	Medium to dark black - brown, firm, friable, good core - unbroken.
TE		PB3		C2646	14.64	0.15	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken, sharp planar base, beds dip at 00 degrees.
TE		PB3		C2646	14.72	0.08	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, gradational base.
TE		PB3		C2646	14.96	0.24	LIGNITE	Medium to dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE		PB3		C2647	15.06	0.10	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken.
TE		PB3		C2647	15.31	0.25	LIGNITE	Clayey, medium to dark black - brown, firm, friable, good core - unbroken.
TE		PB3		C2648	15.40	0.09	LIGNITE	Humified, dark brown, firm, brittle, good core - unbroken, fissile; SLIGHTLY CLAYEY LIGNITE
TE		PB3		C2648	15.48	0.08	INFERIOR LIGNITE	Clayey, dark brown - black, soft, friable, good core - unbroken, fissile.
TE		PB3		C2648	15.63	0.15	LIGNITE	Dark brown, firm, friable, good core - unbroken, fissile.
TE		PB3		C2648	15.71	0.08	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
TE		PB3		C2648	15.78	0.07	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
TE		PB3		C2648	15.83	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common ligneous wisps.
TE		PB3		C2648	15.98	0.13	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken, gradational base.
TE		PB3		C2648	16.03	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken.
TE		PB3		C2648	16.10	0.07	LIGNITE	Dark brown, firm, friable, good core - unbroken, fissile; Bands include: LIGNITE, woody textured, dark brown, firm, brittle, good core - unbroken.
TE		PB3		C2648	16.18	0.08	LIGNITE	Woody textured, dark brown, stiff, brittle, good core - unbroken.
TE		PB3		C2649	16.35	0.17	LIGNEOUS CLAY	Medium to dark brown - black, firm, low plasticity (organic), good core - unbroken.
TE		PB3		C2649	16.77	0.42	LIGNITE	Dark brown, firm, brittle, good core - unbroken.
				BASE OF SEAM PB3	16.77	4.62		

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2650	16.82	0.05	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
TE				C2650	17.24	0.44	LIGNITE	Medium to dark brown - black, firm, brittle, good core - unbroken.
TE				C2651	17.79	0.53	LIGNITE	Medium to dark brown - black, firm, brittle, good core - unbroken; COMMON CLAY WISPS LESS THAN 1CM IN SIZE
TE				C2651	17.89	0.10	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken; HIGH INHERENT ASH, CLAY LENSES AND BANDS
TE				C2652	18.32	0.43	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, rare leaf impressions; Additional features include: rare ligneous fragments; CARBONACEOUS WISPS AT 18.22 METRES
TE					18.42	0.10	CORE LOSS	
TE				C2653	19.11	0.69	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken; CARBONACEOUS WISPS RARE
TE				C2654	19.12	0.01	CLAY	Silty, light to medium grey - brown, firm, low plasticity (clay), good core - unbroken, rare ligneous wisps.
TE				C2654	19.48	0.36	CLAY and CLAY	Interbedded 50:50. CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base; CLAY: light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
TE				C2654	19.55	0.07	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, rare ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2654	19.70	0.15	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, subfissile, sharp planar base, beds dip at 03 degrees; LOW STRENGTH, READILY CRUMBLES
TE				C2655	19.88	0.18	LIGNITE	Medium to dark brown, firm, friable, good core - unbroken, fissile; CLAY WISPS OCCASIONAL
TE				C2655	19.99	0.11	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken.
TE				C2655	20.01	0.02	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps; CLAY OCCURENCE LENSIDAL
TE				C2655	20.10	0.09	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common woody fragments.
TE				C2655	20.13	0.03	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
TE				C2655	20.21	0.08	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken; VERY HIGH INHERENT ASH, WITH CLAY WISPS HIGHLY INTERBANDED WITH LIGNITE AND CLAY WISPS
TE				C2655	20.23	0.02	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
TE				C2655	20.38	0.15	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken.
TE				C2656	20.78	0.40	INFERIOR LIGNITE and CLAY	Interbedded 80:20. INFERIOR LIGNITE: clayey, dark brown, firm, friable, good core - unbroken; CLAY: light to medium grey - brown, firm, low plasticity (clay), good core - unbroken.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2656	20.90	0.12	LIGNITE	Medium to dark brown - black, firm, friable, good core - unbroken; WITH CLAY WISPS
TE				C2656	20.94	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
TE				C2656	21.11	0.17	CLAY	Light to medium grey - brown, firm, low plasticity (clay), good core - unbroken; LOW STRENGTH CLAY
TE				C2657	21.31	0.20	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken.
TE				C2657	21.45	0.14	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken; WITH CLAY WISPS
TE				C2657	21.54	0.09	CLAY	Medium to dark grey - brown, firm, low plasticity (clay), good core - unbroken, gradational base.
TE				C2657	21.63	0.09	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken.
TE				C2657	21.85	0.22	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, rare resin aggregates.
				TOP OF SEAM PB4		21.85		
TE		PB4		C2658	21.94	0.09	INFERIOR LIGNITE	Clayey, medium to dark black - brown, firm, friable, good core - unbroken; Bands include: CLAY, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.
TE		PB4		C2658	21.96	0.02	LIGNITE	Woody textured, medium to dark brown, firm, friable, good core - unbroken, fissile.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE		PB4		C2658	22.12	0.16	INFERIOR LIGNITE	Clayey, medium to dark brown - grey, firm, friable, good core - unbroken, gradational base.
TE		PB4		C2658	22.22	0.10	LIGNEDUS CLAY	Light to medium brown - grey, firm, low plasticity (organic), good core - unbroken, abundant resin aggregates.
TE		PB4		C2658	22.28	0.06	LIGNITE	Medium to dark brown - black, firm, friable, good core - unbroken.
TE		PB4		C2658	22.46	0.18	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
TE		PB4		C2658	22.72	0.26	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
TE		PB4		C2658	22.92	0.20	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
TE		PB4		C2658	22.92	0.00	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
TE		PB4		C2659	23.32	0.40	LIGNITE	Dark brown, firm, coal cleat, friable, sparse, subvertical joints, vertical joints, good core - unbroken.
TE		PB4		C2660	23.50	0.18	LIGNITE	Dark brown, firm, friable, good core - unbroken, gradational base, occasional resin aggregates, clay, clasts.
TE		PB4		C2660	23.78	0.28	LIGNITE	Dark brown, firm, friable, good core - unbroken, common resin aggregates.
TE		PB4		C2660	23.83	0.05	LIGNEDUS CLAY	Light to medium brown - grey, firm, low plasticity (organic), good core - unbroken, subfissile, common ligneous fragments.
TE		PB4		C2661	23.94	0.11	LIGNITE and INFERIOR LIGNITE	Interbedded 60:40. LIGNITE: dark brown, firm, friable, good core - unbroken, subfissile; INFERIOR LIGNITE: clayey, dark brown, firm, friable.
TE		PB4		C2661	24.18	0.24	LIGNITE	Dark brown, firm, friable, good core - unbroken.
TE		PB4		C2662	24.24	0.06	LIGNEDUS CLAY	Dark brown - black, firm, high plasticity (organic), good core - unbroken, occasional resin aggregates.
TE		PB4		C2662	24.47	0.23	LIGNITE	Woody textured, medium to dark black - brown, firm, friable, good core - unbroken, fissile, common resin aggregates.
BASE OF SEAM PB4					24.47	2.62		

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C	24.55	0.08	CORE LOSS	Good core - unbroken.
TE				C2663	24.56	0.01	LIGNITE	Woody textured, dark black - brown, low strength, slickensides on fracture, brittle, sparse, subhorizontal joints, angle of joints 10 degrees, good core - unbroken.
TE				C2663	24.59	0.03	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken.
TE				C2663	24.75	0.16	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken.
TE				C2663	24.84	0.09	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken; CLAY AND WOOD WISPS COMMON
TE				C2663	24.89	0.05	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, common resin aggregates.
TE				C2663	25.06	0.17	LIGNITE	Medium to dark brown - black, firm, friable, good core - unbroken, gradational base, common resin aggregates; CLAY WISPS RARE
TE				C2663	25.08	0.02	INFERIOR LIGNITE	Medium to dark brown, firm, friable, good core - unbroken.
TE				C2663	25.18	0.10	LIGNEOUS CLAY	Light to medium brown, firm, low plasticity (organic), good core - unbroken.
TE				C2663	25.23	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken; CLAYEY WISPS PRESENT
TE				C2664	26.22	0.99	CLAY and CLAY	Interbedded 80:20. CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, rare muscovite, disseminated; CLAY: sandy, light grey - brown, firm, low plasticity (clay); OCCASIONAL WOOD WISPS

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2664	26.38	0.16	CLAY	Sandy, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
TE				C2664	26.69	0.31	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, sharp irregular base, beds dip at 15 degrees, rare muscovite, disseminated.
TE				C2665	27.31	0.62	SILT	Sideritic, light grey - brown, high strength, brittle, good core - unbroken, erosional base, beds dip at 15 degrees, siderite, secondary, cement.
TE				C2665	27.65	0.34	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
			R		33.40	5.75	CLAY	Carbonaceous, silty, medium to dark brown - grey, firm, high plasticity (clay).
			R		34.20	0.80	SIDERITE	
					TOP OF SEAM PC1		34.20	
		PC1	R		36.20	2.00	LIGNEOUS CLAY	
		PC1	R		37.40	1.20	INFERIOR LIGNITE	
		PC1	R		38.10	0.70	INFERIOR LIGNITE	
					BASE OF SEAM PC1		38.10	3.90
			R		39.30	1.20	CLAY	Carbonaceous.
					TOP OF SEAM PC2		39.30	
		PC2	R		41.70	2.40	LIGNEOUS CLAY	
					BASE OF SEAM PC2		41.70	2.40
			R		43.00	1.30	CLAY	

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
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TOP OF SEAM PC3 43.00

		PC3		R	44.30	1.30	LIGNEOUS CLAY	
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		PC3		R	45.30	1.00	INFERIOR LIGNITE	
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BASE OF SEAM PC3 45.30 2.30

				R	47.00	1.70	CLAY	
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TE				C2666	47.43	0.43	CLAY	Dark brown, soft, high plasticity (clay), good core - unbroken.
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TE				C2666	47.55	0.12	CLAY	Ligneous, dark brown - black, firm, high plasticity (clay), good core - unbroken.
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TE				C2666	47.80	0.25	CLAY	Ligneous, dark brown, firm, high plasticity (clay), good core - unbroken.
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TE				C2666	48.02	0.22	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
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TE				C2666	48.46	0.44	CLAY	Ligneous, dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
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TE				C2666	48.54	0.08	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
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TE				C2666	48.67	0.13	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, common ligneous fragments;
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CLAYS BETWEEN 47.0 AND 48.67 METRES ARE

NON KERRAGINOUS
CLAYS ARE SATURATED, WHEN SQUEEZED WATER
IS RELEASED FROM CLAYS

TOP OF SEAM PC4 48.67

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE		PC4		C2667	48.69	0.02	INFERIOR LIGNITE	Clayey, dark black - brown, firm, friable, good core - unbroken.
TE		PC4		C2667	49.03	0.34	CORE LOSS	
TE		PC4		C2667	49.38	0.35	LIGNITE	Dark brown, firm, friable, good core - unbroken.
TE		PC4		C2667	49.47	0.09	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
TE		PC4		C2667	49.52	0.05	LIGNITE	Dark brown, firm, friable, good core - unbroken.
TE		PC4		C2667	49.60	0.08	LIGNITE	Dark black - brown, firm, friable, good core - unbroken, fissile.
TE		PC4		C2667	49.61	0.01	LIGNEDUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
TE		PC4		C2667	49.70	0.09	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, subfissile.
TE		PC4		C2668	49.80	0.10	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, subfissile.
TE		PC4		C2668	49.92	0.12	LIGNITE	Dark brown, firm, friable, good core - unbroken.
TE		PC4		C2668	50.11	0.19	LIGNITE	Woody textured, dark black - brown, firm, friable, good core - unbroken, fissile.
								SLIGHT CLAY CONTENT IN LIGNITE. HIGHER
								WATER CONTENT THAN PREVIOUS LITHOLOGIES FROM 49.03 METRES
TE		PC4		C2669	50.49	0.38	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, fissile.
TE		PC4		C2669	50.70	0.21	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
								INCREASED CLAY CONTENT OVER PREVIOUS
								OVER PREVIOUS INFERIOR LIGNITE
TE		PC4		C2670	50.88	0.18	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fissile.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE		PC4		C2670	51.08	0.20	LIGNITE	Dark brown - black, firm, friable, good core - unbroken; CLAY WISPS PRESENT
TE		PC4		C2671	51.19	0.11	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
TE		PC4		C2671	51.25	0.06	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
TE		PC4		C2671	51.38	0.13	LIGNITE	Woody textured, clayey, dark black - brown, firm, friable, core broken, fissile, occasional resin aggregates.
TE		PC4		C2671	51.44	0.06	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
TE		PC4		C2671	51.49	0.05	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
TE		PC4		C2671	52.00	0.51	LIGNITE	Woody textured, clayey, medium to dark brown, firm, friable, good core - unbroken, occasional resin aggregates.
TE		PC4		C2671	52.01	0.01	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, rare resin aggregates.
TE		PC4		C2672	52.06	0.05	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken.
TE		PC4		C2672	52.10	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
TE		PC4		C2672	52.25	0.15	LIGNEOUS CLAY	Light to medium grey - brown, firm, low plasticity (organic), good core - unbroken, common woody fragments; Additional features include: common ligneous wisps.
TE		PC4		C2672	52.28	0.03	LIGNITE	Woody textured, clayey, dark brown, firm, friable, good core - unbroken.
TE		PC4		C2672	52.31	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
TE		PC4		C2672	52.32	0.01	LIGNITE	Woody textured, dark brown - black, low strength, brittle, good core - unbroken.
TE		PC4		C2672	52.41	0.09	CLAY	Light to medium grey - brown, firm, low plasticity (clay), good core - unbroken, gradational base.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE		PC4		C2672	52.60	0.19	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, gradational base, occasional resin aggregates.
TE		PC4		C2672	52.80	0.20	CLAY	Light to medium grey - brown, firm, low plasticity (clay), good core - unbroken, gradational base, abundant woody fragments.
TE		PC4		C2673	52.94	0.14	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, common ligneous wisps.
TE		PC4		C2673	53.09	0.15	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken;
CLAY WISPS AND WOODY BANDS COMMON								
TE		PC4		C2673	53.11	0.02	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile;
VERY MOIST, SATURATED LIGNITE								
TE		PC4		C2674	53.21	0.10	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, fissile.
TE		PC4		C2674	53.49	0.22	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, common resin aggregates.
TE		PC4		C0025	53.63	0.20	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, common resin aggregates.
				BASE OF SEAM PC4	53.63	4.96		
TE				C2675	53.77	0.14	INFERIOR LIGNITE	Silty, medium to dark brown, firm, friable, good core - unbroken, rare muscovite, secondary, disseminated.
TE				C2676	53.90	0.13	INFERIOR LIGNITE	Silty, medium to dark brown, firm, slickensides on fracture, friable, common, oblique joints, angle of joints 40 degrees, good core - unbroken, rare muscovite, secondary, disseminated.
TE				C2676	54.01	0.11	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, common woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2676	54.05	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
TE				C2676	54.20	0.15	LIGNITE	Dark brown, firm, friable, good core - unbroken, occasional resin aggregates.
TE				C2676	54.52	0.32	LIGNITE	Woody textured, dark black - brown, firm, friable, good core - unbroken; Bands include: LIGNITE, woody textured, dark black - brown, low strength, brittle.
TE				C0026	54.66	0.14	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
TE				C0026	54.73	0.07	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
TE				C0027	54.76	0.03	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, gradational base.
TE				C2677	54.87	0.11	CLAY	Ligneous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base.
TE				C2677	55.04	0.17	CLAY	Light to medium grey, firm, low plasticity (clay), good core - unbroken, common ligneous wisps.
TE				R	58.20	3.16	NO RECORD	
TE				C2678	58.73	0.53	CLAY	Silty, light to medium grey, firm, high plasticity (clay), good core - unbroken, common ligneous fragments.
OCCASIONAL CARBONACEOUS BANDS								
TE				C2678	59.31	0.58	CLAY	Carbonaceous, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
FREQUENT CARBONACEOUS BANDS								
TE				C2678	59.54	0.23	LIGNEOUS CLAY	Light to medium brown - grey, firm, low plasticity (organic), good core - unbroken, subfissile, gradational base, abundant ligneous fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2678	60.04	0.50	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, gradational base, occasional woody fragments; CONTAINS VERY FINELY DISSEMINATED COALLY FRAGMENTS
TE				C2678	60.15	0.11	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments.
TE				C2679	60.20	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown - grey, firm, slickensides on fracture, friable, sparse, oblique joints, angle of joints 40 degrees, good core - unbroken.
TE				C2679	60.55	0.35	CLAY	Light to medium brown - grey, firm, slickensides on fracture, high plasticity (clay), sparse, oblique joints, angle of joints 60 degrees, good core - unbroken, gradational base, occasional woody fragments.
TE				C2680	60.60	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken.
TE				C2680	60.74	0.14	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, fissile, occasional resin aggregates.
TE				C2681	61.04	0.30	INFERIOR LIGNITE and CLAY	Interbedded 80:20 INFERIOR LIGNITE: clayey, woody textured, medium to dark brown, firm, friable, good core - unbroken, fissile, occasional resin aggregates; CLAY: light to medium brown - grey, firm, high plasticity (clay); FINELY INTERBANDED, FINELY LAMINAR
TE				C0028	61.09	0.05	LIGNITE	Dark black - brown, firm, friable, good core - unbroken, fissile.
TE				C0028	61.13	0.04	INFERIOR LIGNITE and CLAY	Interbedded 60:40 INFERIOR LIGNITE: clayey, dark brown - black, firm, friable, good core - unbroken; CLAY: ligneous, medium to dark brown - grey, firm, high plasticity (clay); FINELY LAMINAR, CLAY IS OF LOW STRENGTH
TE				C0028	61.16	0.03	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					61.43	0.27	CORE LOSS	
TE				C2682	61.45	0.02	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
TE				C2682	61.57	0.12	CLAY	Ligneous, dark brown, firm, low plasticity (organic), good core - unbroken, common woody fragments.
TE				C2682	61.69	0.12	INFERIOR LIGNITE	Woody textured, clayey, dark brown, firm, friable, good core - unbroken, fissile.
								VERY MOIST SATURATED LIGNITE
TE				C2682	61.77	0.08	LIGNITE	Woody textured, dark brown, low strength, coal cleat, brittle, sparse, subvertical joints, vertical joints, good core - unbroken, sharp irregular base;
								POSSIBLY A TREE BRANCH
TE				C2682	61.99	0.22	CLAY	Ligneous, medium to dark brown - black, firm, friable, good core - unbroken, fissile, abundant ligneous wisps; Additional features include: common resin aggregates;
								LOW STRENGTH CLAY
TE				C2682	62.03	0.04	LIGNITE	Woody textured, medium to dark black - brown, firm, friable, good core - unbroken, fissile.
TE				C2682	62.15	0.12	INFERIOR LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, rare resin aggregates.
TE				C2682	62.19	0.04	LIGNITE	Woody textured, dark black - brown, firm, friable, good core - unbroken, fissile.
TE				C2683	62.29	0.10	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken;
								CARBONACEOUS WISPS COMMON
TE				C2683	62.35	0.06	CLAY	Ligneous, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2683	62.42	0.07	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, common resin aggregates.
TE				C2683	62.55	0.13	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
TE				C2683	62.59	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
TE				C2683	62.71	0.12	CLAY	Light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base.
TE				C2683	62.78	0.07	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken; CLAY LENSES COMMON
TE				C2683	62.84	0.06	INFERIOR LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, fissile; CLAY WISPS COMMON
TE				C2683	62.90	0.06	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
TE				C2683	62.93	0.03	LIGNITE	Peaty, woody textured, medium to dark black - brown, firm, friable, fissile.
TE				C2683	63.07	0.14	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, fissile.
TE				C2684	63.12	0.05	INFERIOR LIGNITE	Peaty, woody textured, dark brown - black, firm, friable, fissile, sharp irregular base, beds dip at 20 degrees; CEMENTED SILTY INFILLING IN WOODY ZONES
TE				C2684	63.31	0.19	CLAY	Medium to dark brown - grey, firm, low plasticity (clay); CONTAINS NODULES OF CEMENTED SILT

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C2684	63.38	0.07	INFERIOR LIGNITE	Peaty, woody textured, medium to dark black - brown, firm, friable, common woody fragments; Additional features include: clayey; POSSIBLY A BRANCH WASHED INTO CLAYS
TE				C2684	63.55	0.17	CLAY	Light to medium brown - grey, firm, low plasticity (clay), abundant woody fragments; Additional features include: abundant ligneous wisps.
					65.10	1.55	CLAY	Light to medium brown - grey, firm, high plasticity (clay).
					68.00	2.90	CLAY	Woody textured, light to medium brown - grey, firm, high plasticity (clay).
					76.80	8.80	CLAY	Light to medium grey, firm, high plasticity (clay); Bands include: <u>SIDERITE</u> , 00.20 m thick, base at 0070.20m, light to medium brown, extremely high strength, tough.
END OF BORE AT					76.80 m			

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Easting: 496690.000	Logging Organisation: CSR Exploration and Evaluation Group
Northing: 5410550.000	Logged By: ELLIS
Grid Type: Australian Mapping Grid	Drilling Contractor: H. J. Stacpoole
Accuracy: Approximate	Geophysical Logging: Murdoch Geophysics
Cr1: 150.00	
Datum: Approximate Level - Not Surveyed	

Sheet Reference:	County:
Sheet Index:	Parish:
Total Depth: 50.28	Portion:

Drilling Commenced: 30/11/81
 Drilling Completed: 01/12/81
 Inclination:
 Azimuth:
 Standing Water Level: 6.9

Plug Depths:
 Hole Diameter: 150
 Core Diameter: 100
 Cased Depths:
 Core Barrel: Trifus Triple Barrel

Available Data: Gamma Logs	Drill Bits: Blades
Density Logs	
Resistivity Logs	
Caliper Logs	

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					4.00	4.00	CLAY	Mottled grey - blue, firm, high plasticity (clay).
					8.00	4.00	CLAY	Silty, mottled grey - orange, firm, high plasticity (clay); Additional features include: brown.
				C	8.13	0.13	CORE LOSS	
					TOP OF SEAM PB3		8.13	
PB3		C2707			8.27	0.14	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common ligneous wisps; LIGNEOUS WISPS ARE DARK BLACK-BROWN, SOFT AND GELATINOUS
PB3		C2707			8.31	0.04	INFERIOR LIGNITE	Clayey, gelatinous, dark black - brown, soft, low plasticity (organic), good core - unbroken.
PB3		C2707			8.34	0.03	CLAY	Ligneous, light to medium brown, firm, low plasticity (clay), good core - unbroken, gradational base.
PB3		C2707			8.41	0.07	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, gradational base, beds dip at 02 degrees.
PB3		C2707			8.51	0.10	INFERIOR LIGNITE	Clayey, woody textured, dark black - brown, firm, friable, good core - unbroken, fissile.
PB3		C2707			8.59	0.08	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees, abundant ligneous wisps.
PB3		C2707			8.68	0.09	CLAY	Ligneous, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, common ligneous wisps.
PB3		C2708			8.78	0.10	LIGNITE	Woody textured, clayey, medium to dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 05 degrees; HIGH CLAY CONTENT, LOOKS LIKE A LOG OF WOOD IN CLAY

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB3		C2708	8.88	0.10	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 02 degrees, common ligneous fragments; WOODY LIGNEOUS FRAGMENTS
		PB3		C2708	8.91	0.03	LIGNITE	Woody textured, dark brown - black, good core - unbroken, sharp irregular base, beds dip at 10 degrees; LOOKS LIKE A LOG OF WOOD
		PB3		C2708	8.99	0.08	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, gradational base, common ligneous wisps.
		PB3		C2708	9.10	0.11	LIGNITE	Medium to dark brown, firm, friable, good core - unbroken.
		PB3		C0011	9.15	0.05	LIGNITE	Woody textured, dark brown - black, low strength, brittle, good core - unbroken.
		PB3		C0011	9.21	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB3		C0011	9.32	0.11	LIGNITE	Dark brown, firm, friable, good core - unbroken, common woody fragments.
		PB3		C0011	9.36	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken, gradational base.
		PB3		C2709	9.41	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees, common woody fragments.
		PB3		C2709	9.49	0.08	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 10 degrees, abundant woody fragments.
		PB3		C2709	9.59	0.10	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, gradational base, abundant woody fragments.
		PB3		C2709	9.65	0.06	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, sharp irregular base, common woody fragments.
		PB3		C2709	9.72	0.07	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB4		C2713	11.96	0.12	INFERIOR LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, common resin aggregates.
		PB4		C2713	12.01	0.05	CLAY	Ligneous, medium to dark brown, firm, high plasticity (organic), good core - unbroken, common woody fragments.
		PB4		C2713	12.14	0.13	INFERIOR LIGNITE	Woody textured, clayey, dark brown, firm, friable, good core - unbroken, common resin aggregates.
		PB4		C2713	12.17	0.03	LIGNEOUS CLAY	Dark brown - grey, firm, high plasticity (organic), good core - unbroken.
		PB4		C2713	12.25	0.08	INFERIOR LIGNITE	Woody textured, clayey, dark brown, firm, friable, good core - unbroken.
LIGNEOUS CLAY LENSES								
		PB4		C2714	12.30	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 20 degrees, common woody fragments.
		PB4		C2714	12.35	0.05	LIGNITE	Woody textured, medium to dark brown - yellow, firm, friable, good core - unbroken.
LOOKS LIKE A TREE BRANCH, RESINOUS?								
		PB4		C2714	12.38	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, sharp oblique base, beds dip at 15 degrees, common woody fragments.
		PB4		C2714	12.44	0.06	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, fibrous. Bands include: LIGNITE, woody textured, dark brown, low strength, brittle, good core - unbroken, fibrous.
		PB4		C2714	12.54	0.10	LIGNITE	Dark brown, firm, friable, good core - unbroken, occasional resin aggregates. Additional features include: good core - unbroken, common woody fragments.
		PB4		C2715	12.71	0.17	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB4		C2715	12.94	0.23	INFERIOR LIGNITE	Dark brown, firm, friable, good core - unbroken, common resin aggregates; Additional features include: good core - unbroken, common woody fragments.
		PB4		C2716	12.98	0.04	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken, common woody fragments.
		PB4		C2716	13.22	0.24	INFERIOR LIGNITE	Clayey, dark brown, firm, slickensides on fracture, friable, common, oblique joints, angle of joints 40 degrees, good core - unbroken, fibrous, sharp irregular base, common woody fragments.
		PB4		C2717	13.39	0.17	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
		PB4		C2717	13.43	0.04	CLAY	Ligneous, dark brown, low strength, slickensides on fracture, brittle, common, oblique joints, angle of joints 30 degrees, core crushed, fissile;
							LOW STRENGTH CLAY	
		PB4		C2717	13.45	0.02	CLAY	Ligneous, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB4		C2717	13.66	0.21	LIGNITE	Woody textured, medium to dark brown, firm, friable, good core - unbroken, common resin aggregates.
					BASE OF SEAM PB4	13.66	2.22	
				C2718	13.71	0.05	CLAY	Ligneous, dark brown, firm, low plasticity (clay), good core - unbroken, subfissile, sharp irregular base, common woody fragments.
				C2718	13.74	0.03	CLAY	Carbonaceous, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C2718	13.82	0.08	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, subfissile, gradational base, common woody fragments.
				C2718	13.88	0.06	CLAY	Ligneous, mottled brown, firm, low plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2718	13.92	0.04	INFERIOR LIGNITE	Woody textured, clayey, dark brown, firm, friable, good core - unbroken.
				C2718	14.03	0.11	CLAY	Carbonaceous, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, common woody fragments.
				C2718	14.10	0.07	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 15 degrees, occasional woody fragments.
				C2718	14.17	0.07	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C2718	14.37	0.20	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, abundant woody fragments.
				C2718	14.46	0.09	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C2718	14.51	0.05	CLAY	Mottled brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C2718	14.53	0.12	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, common woody fragments.
					15.25	1.62	CORE LOSS	
					17.50	1.25	CLAY and CLAY	Interbedded 50:50. CLAY: carbonaceous, light to medium grey - brown, firm, high plasticity (clay), common woody fragments; CLAY: mottled brown, firm, high plasticity (clay), common woody fragments.
					23.26	5.76	CLAY	Mottled brown, firm, high plasticity (clay), common woody fragments.
				C2719	23.31	0.05	CLAY	Ligneous, medium to dark brown - black, firm, high plasticity (clay), good core - unbroken, fissile;
							PRECURSOR TO CARBONACEOUS SHALE	
				C2719	23.42	0.11	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2719	23.56	0.14	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2719	23.68	0.12	CLAY	Mottled brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2719	23.76	0.08	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
				C2719	23.82	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2719	23.87	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
				C2720	23.91	0.04	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C2720	23.96	0.05	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken, fissile, common ligneous wisps.
PRECURSOR TO CARBONACEOUS SHALE								
				C2720	24.08	0.12	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees, abundant woody fragments.
				C2720	24.25	0.17	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, sharp oblique base, beds dip at 15 degrees, abundant woody fragments.
				C2720	24.34	0.09	INFERIOR LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, subfissile, sharp oblique base, beds dip at 05 degrees.
				C2720	24.36	0.02	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, sharp planar base, beds dip at 05 degrees.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2720	24.55	0.19	INFERIOR LIGNITE	Clayey, woody textured, medium to dark brown, firm, friable, good core - unbroken, sharp planar base; Bands include: CLAY, light to medium brown - grey, firm, low plasticity (clay); CLAY BANDS VERY THIN LAMINAE
				C2721	24.70	0.15	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken, sharp planar base, beds dip at 03 degrees; Bands include: CLAY, light to medium brown, firm, high plasticity (clay); Bands include: INFERIOR LIGNITE, clayey, medium to dark brown, firm, friable.
				C2721	24.75	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, high plasticity (organic), good core - unbroken.
				C2721	24.81	0.06	INFERIOR LIGNITE	Woody textured, clayey, medium to dark brown - black, firm, friable, good core - unbroken, fissile.
				C2721	24.82	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2721	24.89	0.07	LIGNITE	Medium to dark brown, firm, friable, good core - unbroken, fissile.
					25.42	0.53	CORE LOSS	
				C2722	25.49	0.07	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile.
				C2722	25.53	0.04	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (clay), good core - unbroken, fissile.
				C2722	25.59	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, fissile.
				C2722	25.63	0.04	INFERIOR LIGNITE	Clayey, dark brown, soft, low plasticity (organic), good core - unbroken, fissile;
								LITHOLOGIES BETWEEN 25.42 AND 25.63 LOOK LIKE A CARBONACEOUS SHALE PRECURSOR

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2722	25.65	0.02	CLAY	Ligneous, light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2722	25.70	0.05	INFERIOR LIGNITE	Woody textured, medium to dark brown - black, firm, low plasticity (organic), good core - unbroken, fissile.
				C2722	25.71	0.01	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2722	25.74	0.03	INFERIOR LIGNITE	Woody textured, medium to dark brown - black, firm, low plasticity (organic), good core - unbroken, fissile.
				C2723	25.76	0.02	CLAY	Carbonaceous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C2723	25.79	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
				C2723	25.91	0.12	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, subfissile.
				C2723	25.96	0.05	CLAY	Light to medium brown - grey, firm, slickensides on fracture, high plasticity (clay), sparse, oblique joints, angle of joints 20 degrees.
				C2723	26.11	0.15	LIGNEOUS CLAY	Medium to dark brown - black, firm, high plasticity (organic), good core - unbroken, subfissile, sharp oblique base, beds dip at 20 degrees, abundant ligneous wisps; Bands include: CLAY, light to medium brown - grey, firm, high plasticity (clay); LIGNEOUS CLAY IS MACROBIOTURBATED
				C2723	26.16	0.05	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, sharp planar base, beds dip at 00 degrees, abundant bioturbation.
				C2723	26.23	0.07	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common bioturbation; Additional features include: good core - unbroken, common ligneous lamellae.
				C2723	26.26	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, gradational base, beds dip at 00 degrees, common bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2723	26.34	0.08	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp planar base, beds dip at 05 degrees, abundant bioturbation.
				C2724	26.40	0.06	CLAY	Light to medium brown, firm, slickensides on fracture, high plasticity (clay), sparse, oblique joints, angle of joints 40 degrees, good core - unbroken, sharp irregular base, beds dip at 30 degrees, occasional ligneous wisps.
				C2724	26.45	0.05	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, sharp planar base, beds dip at 00 degrees.
				C2724	26.51	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp irregular base, common bioturbation.
				C2724	26.76	0.25	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2724	27.04	0.28	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2724	27.06	0.02	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.
				C2724	27.09	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C2725	27.12	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken, sharp planar base, beds dip at 00 degrees, common ligneous wisps.
				C2725	27.18	0.06	INFERIOR LIGNITE	Clayey, dark black - brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees, common bioturbation.
				C2725	27.20	0.02	CLAY	Dark black - brown, firm, friable, good core - unbroken.
				C2725	27.22	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees, common bioturbation.
				C2725	27.29	0.07	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2725	27.34	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable, good core - unbroken.
				C2725	27.35	0.01	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps; Additional features include: good core - unbroken, common bioturbation.
				C2725	27.38	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation.
				C2725	27.43	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, sharp irregular base, common ligneous wisps.
				C2725	27.44	0.01	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, bioturbation.
				C2725	27.49	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees, bioturbation.
				C2725	27.52	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, sharp planar base, beds dip at 00 degrees.
				C2725	27.59	0.07	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, bioturbation.
				C2725	27.63	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, bioturbation.
				C2725	27.66	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C2725	27.68	0.02	INFERIOR LIGNITE	Clayey, woody textured, medium to dark brown, firm, friable, good core - unbroken, subfissile, bioturbation.
				C2725	27.78	0.10	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
				C2725	27.88	0.10	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C2725	28.05	0.17	CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken, common ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA	
				C2725	28.07	0.02	CLAY	Light to medium brown, firm, low plasticity (clay), good core - unbroken, sharp planar base, beds dip at 00 degrees.	
				C2725	28.09	0.02	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken.	
				C2725	28.11	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.	
				C2725	28.14	0.03	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, bioturbation.	
				C2725	28.18	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.	
				C2725	28.78	0.60	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.	
				C2725	28.86	0.08	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, subfissile, sharp planar base, beds dip at 00 degrees.	
LOW STRENGTH CLAY									
					TOP OF SEAM PC2		28.86		
		PC2		C2726	28.93	0.07	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, gradational base, bioturbation.	
		PC2		C2726	29.22	0.29	LIGNITE	Dark brown, firm, friable, good core - unbroken, gradational base, bioturbation.	
		PC2		C2726	29.28	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, occasional resin aggregates; Additional features include: good core - unbroken, occasional bioturbation.	
		PC2		C2726	29.36	0.08	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.	
		PC2		C2726	29.45	0.09	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common woody fragments.	

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC2			29.67	0.22	CORE LOSS	
		PC2		C2727	29.82	0.15	LIGNITE	Woody textured, peaty, dark brown - black, firm, friable, good core - unbroken.
		PC2		C2727	29.87	0.05	LIGNEOUS CLAY	Dark black - brown, firm, low plasticity (clay), good core - unbroken.
		PC2		C2727	29.89	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, rare quartz, accessory, clasts.
		PC2			31.79	1.90	CORE LOSS	Good core - unbroken.
		PC2		C2728	31.82	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC2		C2728	31.87	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PC2		C2728	31.93	0.06	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		PC2		C2728	31.95	0.02	LIGNITE	Woody textured, peaty, dark brown, low strength, brittle, good core - unbroken.
		PC2		C2728	32.14	0.19	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken.
		PC2		C2729	32.19	0.05	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, subfissile.
		PC2		C2729	32.23	0.04	CLAY	Ligneous, dark brown, firm, high plasticity (organic), good core - unbroken.
		PC2		C2729	32.27	0.04	CLAY	Light to medium brown, firm, low plasticity (clay), good core - unbroken, occasional ligneous wisps.
		PC2		C2729	32.31	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (clay), good core - unbroken, subfissile.
		PC2		C2729	32.38	0.07	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC2		C2729	32.43	0.05	LIGNITE	Woody textured, peaty, dark brown, low strength, brittle, good core - unbroken.
		PC2		C2729	32.48	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC2		C2729	32.53	0.05	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC2		C2729	32.58	0.05	INFERIOR LIGNITE	Clayey, dark black - brown, firm, friable, good core - unbroken.
		PC2		C2729	32.62	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC2		C2729	32.72	0.10	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PC2		C2729	32.76	0.04	LIGNEOUS CLAY	Dark grey, firm, friable, good core - unbroken.
		PC2		C2730	33.10	0.34	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC2		C2731	33.19	0.09	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC2		C2731	33.30	0.11	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common ligneous wisps.
		PC2		C2731	33.34	0.04	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		PC2		C2731	33.47	0.13	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC2		C2731	33.54	0.07	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC2		C2731	33.57	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
				BASE OF SEAM PC2		33.57	4.71	
				33.68	0.11	CORE LOSS		
				C2732	33.74	0.06	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, fibrous.
				C2732	33.78	0.04	INFERIOR LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C2732	33.90	0.12	LIGNEOUS CLAY	Dark grey - brown, firm, low plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2732	33.92	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2732	33.94	0.02	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, low plasticity (organic), good core - unbroken.
				C2732	33.98	0.04	INFERIOR LIGNITE	Dark brown, firm, friable, good core - unbroken, occasional woody fragments.
				C2733	34.03	0.05	LIGNEOUS CLAY	Medium to dark brown, firm, slickensides on fracture, low plasticity (organic), sparse, oblique joints, angle of joints 40 degrees, good core - unbroken, occasional resin aggregates.
				C2733	34.06	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2733	34.22	0.16	CLAY	Ligneous, medium to dark brown, firm, good core - unbroken, occasional resin aggregates; Additional features include: good core - unbroken, common woody fragments.
				C2733	34.25	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, subfissile.
				C2733	34.27	0.02	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, subfissile, sharp oblique base, beds dip at 05 degrees.
				C2733	34.30	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 05 degrees.
				C2733	34.31	0.01	CLAY	Light to medium brown - grey, firm, good core - unbroken.
				C2733	34.38	0.07	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken; CONTAINS THIN CLAY WISPS
				C2733	34.62	0.24	LIGNITE	Dark brown, firm, friable, good core - unbroken.
				C2734	34.80	0.18	LIGNEOUS CLAY	Dark brown - grey, firm, low plasticity (clay), good core - unbroken, abundant ligneous wisps.
				C2734	34.83	0.03	CLAY	Mottled brown, firm, high plasticity (organic), good core - unbroken.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2734	34.86	0.03	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken.
				C2734	34.88	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2734	34.89	0.01	CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken.
				C2734	34.92	0.03	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2734	35.01	0.09	LIGNEOUS CLAY	Dark brown - grey, firm, low plasticity (organic), good core - unbroken, common ligneous wisps.
				C2734	35.03	0.02	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C2734	35.07	0.04	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken.
				C2734	35.16	0.09	CLAY	Carbonaceous, medium to dark grey - brown, firm, good core - unbroken.
				C2734	35.22	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2734	35.27	0.05	CLAY	Carbonaceous, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken.
				C2734	35.32	0.05	CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken, common ligneous wisps.
				C2734	35.48	0.16	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2734	35.57	0.09	CLAY	Medium to dark grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C2734	35.66	0.09	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2734	35.77	0.11	CLAY	Medium to dark grey - brown, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2734	35.79	0.02	LIGNITE	Woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken.
				C2734	35.84	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.

TOP OF SEAM PC3 35.84

PC3				C2735	35.89	0.05	LIGNITE	Dark brown, firm, friable, good core - unbroken, gradational base.
PC3				C2735	35.92	0.03	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken, gradational base.
PC3				C2735	35.95	0.03	LIGNEOUS CLAY	Dark brown - grey, firm, low plasticity (organic), good core - unbroken.
PC3				C2735	35.96	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
PC3				C2735	35.97	0.01	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
PC3				C2735	36.02	0.05	LIGNITE	Dark brown, firm, friable, good core - unbroken.
PC3				C2735	36.08	0.06	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken.
								IRREGULARLY FRACTURED
PC3				C2735	36.13	0.05	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
								IRREGULARLY FRACTURED
PC3				C2735	36.18	0.05	LIGNITE	Woody textured, dark brown - black, low strength, brittle, good core - unbroken.
								OCCASIONAL CLAY PODS

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC3		C2735	36.21	0.03	LIGNITE	Dark brown, firm, slickensides on fracture, friable, sparse, oblique joints, angle of joints 30 degrees, good core - unbroken.
		PC3		C2735	36.28	0.07	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		PC3		C2735	36.37	0.09	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken; Bands include: LIGNITE, woody textured, dark brown, low strength, brittle, good core - unbroken, subfissile.
		PC3		C2735	36.41	0.04	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		PC3		C2735	36.46	0.05	LIGNITE	Woody textured, dark brown, firm, coal cleat, friable, sparse, subvertical joints, vertical joints, good core - unbroken; Bands include: LIGNITE, woody textured, dark brown, low strength, brittle, good core - unbroken, subfissile.
		PC3		C2736	36.56	0.10	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, gradational base, common woody fragments.
		PC3		C2736	36.61	0.05	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, common woody fragments.
		PC3		C2736	36.65	0.04	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		PC3		C2736	36.74	0.09	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
		PC3		C2737	36.78	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken; HIGH CLAY CONTENT, ALMOST LOW PLASTICITY
		PC3		C2737	36.83	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken; LESS CLAY THAN PREVIOUS UNIT
		PC3		C2737	36.91	0.08	LIGNITE	Dark brown, firm, friable, good core - unbroken.
		PC3		C2737	36.99	0.08	LIGNITE	Silty, medium to dark black, firm, friable, good core - unbroken, fibrous.
		PC3		C2737	37.05	0.06	INFERIOR LIGNITE	Dark brown, firm, friable, good core - unbroken.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC3		C2737	37.30	0.25	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, common woody fragments.
		PC3		C2737	37.57	0.27	LIGNITE	Woody textured, peaty, dark brown - black, firm, friable, good core - unbroken; LOOKS LIKE A BRANCH, SOME CLAY
		PC3		C2737	37.63	0.06	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, common woody fragments.
					BASE OF SEAM PC3	37.63	1.79	
				C2738	37.78	0.15	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, common woody fragments.
				C2738	37.90	0.12	LIGNEOUS CLAY	Dark brown - grey, firm, low plasticity (organic), good core - unbroken, common woody fragments.
				C2738	37.96	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2738	38.00	0.04	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, low plasticity (organic), good core - unbroken, gradational base.
INCREASED CLAY DOWN SEQUENCE								
				C2738	38.15	0.15	LIGNEOUS CLAY	Dark brown - grey, firm, low plasticity (organic), good core - unbroken, gradational base.
				C2738	38.16	0.01	CLAY	Medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base.
				C2738	38.18	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C2738	38.23	0.05	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, friable, core crushed, fissile.
				C2738	38.26	0.03	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (organic), good core - unbroken, fissile, common woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2738	38.31	0.05	LIGNEOUS CLAY	Dark brown - grey, firm, high plasticity (clay), good core - unbroken, subfissile.
				C2738	38.43	0.12	CLAY	Mottled grey - brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
				C2738	38.48	0.05	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken; Bands include: CLAY, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C2738	38.77	0.29	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, fibrous, sharp irregular base; LOOKS LIKE A BRANCH
				C2739	38.85	0.08	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C2739	38.96	0.11	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, gradational base, occasional woody fragments.
				C2739	39.16	0.20	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C2739	39.30	0.14	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, gradational base.
				C2739	39.38	0.08	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C2739	39.51	0.13	CLAY	Ligneous, light to medium brown, firm, low plasticity (clay), good core - unbroken, common woody fragments.
				C2739	39.61	0.10	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C2739	39.74	0.13	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
				C2739	39.84	0.10	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2739	40.13	0.29	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments; Additional features include: good core - unbroken, occasional resin aggregates.
				C2739	40.34	0.21	CLAY	Medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken, common woody fragments; Additional features include: good core - unbroken, occasional resin aggregates.
				C2739	40.64	0.30	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, occasional resin aggregates; Additional features include: common woody fragments.
				C2739	40.78	0.14	CLAY	Light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, common woody fragments.
				C2739	40.84	0.06	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken.
				R	45.00	4.16	NO RECORD	
				C2740	45.23	0.23	CLAY	Bentonitic, light to medium grey, firm, high plasticity (clay), good core - unbroken.
				C2740	45.41	0.18	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 10 degrees.
				C2740	45.42	0.01	SAND	Clayey, light to medium grey, firm, non-plastic, good core - unbroken, coarsening upwards, sharp planar base, beds dip at 00 degrees.
				C2740	45.50	0.08	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, common coaly wisps.
				C2740	45.51	0.01	CLAY	Sandy, light to medium grey, firm, low plasticity (clay), good core - unbroken.
				C2740	45.54	0.03	CLAY	Sandy, light to medium brown, firm, low plasticity (clay), good core - unbroken, fining upwards;
							LESS SAND TOWARDS TOP OF UNIT	
				C2740	45.62	0.08	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2740	45.75	0.13	CLAY	Sandy, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2740	45.90	0.15	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				TOP OF SEAM PDO		45.90		
	PDO			C2741	46.32	0.42	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
	PDO			C2742	46.38	0.06	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken.
	PDO			C2742	46.57	0.19	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
	PDO			C0012	46.59	0.02	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
	PDO			C0012	47.01	0.42	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, sharp irregular base, common resin aggregates.
	PDO			C2743	47.15	0.14	CLAY	Mottled brown - grey, firm, high plasticity (clay), good core - unbroken.
	PDO			C2743	47.21	0.06	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
	PDO			C2743	47.26	0.05	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
	PDO			C2743	47.32	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
	PDO			C2743	47.45	0.13	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
								LOOKS LIKE A BRANCH

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PDO		C2743	47.51	0.06	CLAY	Light to medium brown - grey, firm, slickensides on fracture, high plasticity (clay), sparse, oblique joints, angle of joints 30 degrees, good core - unbroken, sharp oblique base, beds dip at 10 degrees.
		PDO		C2743	47.80	0.29	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 10 degrees, abundant resin aggregates; Bands include: CLAY, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken; Bands include: INFERIOR LIGNITE, clayey, woody textured, dark brown, low strength, brittle, good core - unbroken, abundant resin aggregates.
		PDO		C2743	47.95	0.15	CLAY	Ligneous, dark brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
BASE OF SEAM PDO					47.95	2.05		
					48.08	0.13	CORE LOSS	Good core - unbroken.
				C2744	48.51	0.43	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C2744	48.55	0.04	CLAY	Ligneous, light to medium brown, firm, high plasticity (clay), good core - unbroken, subfissile.
				C2744	48.61	0.06	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, fissile, common woody fragments.
				C2744	48.71	0.10	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, occasional woody fragments.
				C2744	48.78	0.07	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
				C2744	48.79	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2744	48.86	0.07	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, fissile, common woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2745	49.09	0.23	CLAY	Kaolinitic, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, common woody fragments.
				C2745	49.14	0.05	CLAY	Kaolinitic, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken; RADLIN NODULES
				C2745	49.36	0.22	CLAY	Kaolinitic, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2745	49.55	0.19	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
				C2745	49.70	0.15	CLAY	Kaolinitic, light brown - grey, firm, high plasticity (clay), good core - unbroken.
					50.28	0.58	CORE LOSS	
					64.80	14.52	CLAY	Light brown - grey, firm, high plasticity (clay), occasional woody fragments; Bands include: INFERIOR LIGNITE, medium to dark brown, soft, friable.
					68.40	3.60	CLAY and INFERIOR LIGNITE	Interbedded 70:30. CLAY: silty, light to medium grey, soft, occasional woody fragments; INFERIOR LIGNITE.
					90.00	21.60	CLAY	Silty, light to medium grey, soft; Bands include.
					90.00		END OF BORE AT	

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Easting: 496690.000
Northing: 5410550.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 150.00

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: H. J. Stacpoole
Geophysical Logging: Murdoch Geophysics

Datum: Approximate Level - Not Surveyed

Sheet Reference:

County:

Sheet Index:

Parish:

Total Depth: 39.67

Portion:

Drilling Commenced: 06/12/81

Drilling Completed: 07/12/81

Inclination:

Plug Depths:

Azimuth:

Hole Diameter: 150

Standing Water Level: 7.1

Core Diameter: 100

Cased Depths: 6.0

Core Barrel: Trisfus Triple Barrel

Available Data: Gamma Logs

Density Logs

Resistivity Logs

Calliper Logs

Drill Bits: Blades

Rollers

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					4.80	4.80	CLAY	Mottled blue - grey, firm, high plasticity (clay).
					5.40	0.60	CLAY	Silty, light grey, firm, high plasticity (clay).
					5.90	0.50	CLAY	Mottled blue - grey, firm, high plasticity (clay).
					6.90	1.00	SILT	Clayey, mottled grey - orange. Additional features include: brown.
					10.20	3.30	CLAY	Mottled brown, firm; Bands include:
					10.50	0.30	LIGNITE	Woody textured, clayey, medium to dark brown - black, firm, fibrous.
					10.70	0.20	INFERIOR LIGNITE	Woody textured, clayey, medium to dark brown - black, firm, fibrous.
					11.50	0.80	LIGNITE	Woody textured, clayey, medium to dark brown - black, firm, fibrous.
					12.00	0.50	INFERIOR LIGNITE	Woody textured, clayey, medium to dark brown - black, firm, fibrous.
					12.70	0.70	LIGNITE	Medium to dark brown - black, firm, fibrous; Bands include: LIGNEDUS CLAY, medium to dark brown, firm.
					13.75	1.05	LIGNEDUS CLAY	Medium to dark brown, firm; Bands include: INFERIOR LIGNITE, medium to dark brown - black, firm.
					16.00	2.25	LIGNITE	Clayey, woody textured, firm, fibrous.
					25.70	9.70	CLAY	Light to medium brown - grey, firm; Bands include: LIGNEDUS CLAY, medium to dark brown, firm.
					26.80	1.10	LIGNEDUS CLAY	Medium to dark brown, firm.
					27.04	0.24	INFERIOR LIGNITE	

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2867	27.11	0.07	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, subfissile, sharp planar base, beds dip at 02 degrees, occasional bioturbation; Additional features include: common leaf fragments; LOOKS LIKE CARBONACEOUS SHALE
				C2867	27.19	0.08	LIGNEOUS CLAY	Dark brown, firm, low plasticity (clay), good core - unbroken; Bands include: INFERIOR LIGNITE, clayey, dark brown, firm, friable, good core - unbroken.
				C2867	27.20	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2867	27.30	0.10	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, subfissile, rare bioturbation; Additional features include: good core - unbroken, common leaf fragments.
				C2867	27.36	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C2867	27.51	0.15	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken; Bands include: CLAY, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, common woody wisps.
				C2867	27.57	0.06	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
				C2867	27.73	0.16	CLAY	Carbonaceous, mottled brown - grey, firm, high plasticity (clay), good core - unbroken, common bioturbation; Additional features include: good core - unbroken, common woody fragments.
				C2867	27.76	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C2867	27.79	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
					28.26	0.47	CORE LOSS	

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2868	28.35	0.09	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C2868	28.52	0.17	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, rare ligneous wisps; Additional features include: common bioturbation.
				C2868	28.56	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C2868	28.62	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, high plasticity (organic), good core - unbroken, common bioturbation.
				C2868	28.72	0.10	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, abundant bioturbation.
				C2868	29.08	0.36	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C2868	29.20	0.12	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2869	29.31	0.11	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, abundant bioturbation.
				C2869	29.36	0.05	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2869	29.39	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, abundant bioturbation.
				C2869	29.40	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2869	29.44	0.04	LIGNEOUS CLAY	Dark brown, firm, friable, good core - unbroken, common ligneous wisps; Bands include: CLAY, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C2869	29.47	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation.
				C2869	29.55	0.08	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2869	29.56	0.01	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C2869	29.62	0.06	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2869	29.68	0.06	LIGNEOUS CLAY	Dark brown, firm, low plasticity (clay), good core - unbroken, occasional woody wisps.
				C2869	29.82	0.14	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, fissile, abundant bioturbation.
				C2869	30.00	0.18	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2869	30.18	0.18	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken, abundant bioturbation.
				C2869	30.25	0.07	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, abundant bioturbation.
				C2869	30.34	0.09	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, subfissile, abundant bioturbation.
				C2869	30.95	0.61	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
				C2869	30.98	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2869	31.15	0.17	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, occasional woody wisps.
				TOP OF SEAM PC2		31.15		
		PC2		C2870	31.31	0.16	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common woody fragments; Additional features include: occasional bioturbation.
		PC2		C2870	31.38	0.07	CORE LOSS	

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC2		C2870	31.62	0.24	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, common bioturbation; Additional features include: good core - unbroken, common resin aggregates.
		PC2		C2871	31.67	0.05	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PC2		C2871	31.81	0.14	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, sharp irregular base, woody fragments;
EROSIONAL CONTACT WITH UNDERLYING UNIT.								
		PC2		C2872	32.04	0.23	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, occasional bioturbation; Additional features include: good core - unbroken, common woody fragments.
		PC2		C2872	32.09	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common woody fragments; Additional features include: good core - unbroken, occasional bioturbation.
		PC2		C2873	32.29	0.20	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common woody fragments; Additional features include: good core - unbroken, common resin aggregates.
		PC2		C2873	32.56	0.27	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (clay), good core - unbroken, common woody fragments.
		PC2		C2873	32.63	0.07	LIGNITE	Dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 15 degrees.
		PC2		C2873	32.66	0.03	LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 20 degrees.
		PC2		C2873	32.77	0.11	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		PC2		C2873	32.92	0.15	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, abundant ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC2		C2874	32.98	0.06	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, occasional resin aggregates; Additional features include: good core - unbroken, occasional woody fragments.
		PC2		C2874	33.05	0.07	CLAY	Light to medium grey, firm, low plasticity (clay), good core - unbroken, gradational base, occasional woody fragments.
		PC2		C2874	33.13	0.08	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken.
		PC2		C2874	33.20	0.07	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		PC2			33.34	0.14	CORE LOSS	
		PC2		C2875	33.47	0.13	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PC2		C2875	33.50	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic).
		PC2		C2875	33.59	0.09	LIGNITE	Clayey, dark brown - black, firm, friable, subfissile.
		PC2		C2875	33.73	0.14	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), abundant woody fragments.
		PC2		C2875	34.00	0.27	LIGNITE	Clayey, dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, dark brown, firm, high plasticity (clay), common woody fragments.
		PC2		C2876	34.06	0.06	LIGNITE	Clayey, dark brown - black, firm, friable.
		PC2		C2876	34.13	0.07	LIGNEOUS CLAY	Dark brown - grey, firm, low plasticity (clay);
								WITH WISPS OF LIGHT TO MID
		PC2		C2876	34.22	0.09	LIGNITE	Clayey, dark brown - black, firm, friable.
		PC2		C0013	34.55	0.33	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, abundant woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC2		C0013	34.60	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile; HIGHER MOISTURE CONTENT THAN PREVIOUS UNIT
		PC2		C0013	34.64	0.04	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
		PC2		C2877	34.68	0.04	LIGNEDUS CLAY	Dark brown, firm, low plasticity (clay), good core - unbroken, subfissile.
		PC2		C2877	34.74	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		PC2		C2877	34.89	0.15	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, low plasticity (organic), good core - unbroken, subfissile, gradational base.
		PC2		C2877	34.94	0.05	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PC2		C2877	34.99	0.05	INFERIOR LIGNITE	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC2		C2877	35.19	0.16	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		PC2		C2877	35.23	0.08	LIGNEDUS CLAY	Dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		PC2		C2877	35.32	0.09	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC2		C2877	35.42	0.10	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, common woody fragments.
		PC2		C2877	35.48	0.06	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC2		C2877	35.75	0.27	LIGNEDUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken, abundant woody fragments; Additional features include: good core - unbroken, abundant ligneous wisps.
		PC2		C2877	35.82	0.07	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC2		C2878	36.23	0.41	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC2		C2878	36.46	0.23	LIGNEOUS CLAY	Dark brown - black, firm, coal cleat, low plasticity (organic), sparse, subvertical joints, vertical joints, good core - unbroken.
		PC2		C2879	36.49	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PC2		C2879	36.52	0.03	LIGNITE	Woody textured, clayey, medium to dark brown - black, firm, friable, good core - unbroken.
		PC2		C2879	36.63	0.11	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken; Bands include: LIGNEOUS CLAY, dark brown, firm, low plasticity (clay), good core - unbroken.
		PC2		C2879	36.67	0.04	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC2		C2879	36.72	0.05	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PC2		C2879	36.77	0.05	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PC2		C2879	36.79	0.02	CLAY	Light grey - brown, firm, high plasticity (clay), good core - unbroken.
		PC2		C2880	36.85	0.06	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, subfissile.
		PC2		C2880	36.87	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, gradational base.
		PC2		C2880	36.88	0.01	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		PC2		C2880	36.95	0.07	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PC2		C2880	37.03	0.08	LIGNITE and LIGNEOUS CLAY	Interbedded 60:40, LIGNITE: clayey, dark brown, firm, friable, good core - unbroken; LIGNEOUS CLAY: dark brown, firm, high plasticity (clay), good core - unbroken.

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ATP EL2080 TENEMENT 203C
LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC2		C0014	37.15	0.12	INFERIOR LIGNITE	Clayey, gelatinous, dark brown - black, soft, low plasticity (organic), good core - unbroken.

					BASE OF SEAM PC2	37.15	6.00	

				C2881	37.35	0.20	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (clay), good core - unbroken, subfissile, gradational base.
				C2881	37.39	0.04	CLAY	Ligneous, dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C2881	37.46	0.07	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, rare bioturbation.
				C2881	37.53	0.07	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C2881	37.66	0.13	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2881	37.70	0.04	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (clay), good core - unbroken.
				C2881	37.78	0.08	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, common bioturbation.
				C2881	37.91	0.13	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, occasional ligneous wisps.
				C2881	38.02	0.11	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base, common ligneous wisps.
				C2881	38.17	0.15	CLAY	Carbonaceous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C2881	38.36	0.19	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
				C2881	38.42	0.06	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken, subfissile.
				C2882	38.52	0.10	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.

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LAUNCESTON

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2882	38.56	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C2882	38.62	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C2882	38.69	0.07	LIGNITE	Woody textured, dark brown, firm, coal cleat, friable, sparse, subvertical joints, vertical joints, good core - unbroken.
				C2882	38.83	0.14	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (clay), good core - unbroken.
				C2882	38.93	0.10	INFERIOR LIGNITE	Clayey, gelatinous, dark brown - black, soft, friable, good core - unbroken, common woody fragments.
				C2882	39.16	0.23	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C2882	39.22	0.06	LIGNEOUS CLAY	Dark brown, firm, low plasticity (clay), good core - unbroken.
				C2882	39.40	0.18	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken.
				C2882	39.50	0.10	INFERIOR LIGNITE	Clayey, gelatinous, medium to dark brown - black, soft, low plasticity (clay), good core - unbroken.
				C2882	39.67	0.17	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common ligneous wisps.

END OF BORE AT 39.67 m

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PRODUCTION LOG SHEET

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EL2080 LAUNCESTON. C0034

Easting: 597500.000	Logging Organisation: CSR Exploration and Evaluation Group
Northing: 5403500.000	Logged By: ELLHINOS
Grid Type: Australian Mapping Grid	Drilling Contractor:
Accuracy: Approximate	Geophysical Logging: Murdoch Geophysics
Cr1: 155.00	
Datum: Approximate Level - Not Surveyed	
Sheet Reference:	County:
Sheet Index:	Parish:
Total Depth: 49.60	Portion:
Drilling Commenced: 16/11/81	
Drilling Completed: 18/11/81	
Inclination:	Plug Depths:
Azimuth:	Hole Diameter: 150
Standing Water Level:	Core Diameter:
	Cased Depths:
	Core Barrel: Triefus Triple Barrel
Available Data: Gamma Logs	
Density Logs	Drill Bits: Blades
Resistivity Logs	Rollers
Caliper Logs	

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	2.00	2.00	SILT	Clayey, humified, medium to dark red - brown.
				R	4.30	2.30	CLAY	Silty, mottled blue - grey, firm; Additional features include: brown - yellow.
				R	9.10	4.80	CLAY	Silty, mottled blue - grey, firm.
				R	9.60	0.50	LIGNEOUS CLAY	Medium to dark brown.
				R	10.40	0.80	LIGNITE	Medium to dark black - brown.
				R	16.00	5.60	CLAY	Mottled blue - grey.
				R	21.00	5.00	CLAY	Light to medium brown - grey.
				C	21.50	0.50	CLAY	Light to medium brown - grey.
				C2620	22.00	0.50	INFERIOR LIGNITE	Clayey, medium to dark brown - black.
				C2620	22.20	0.20	INFERIOR LIGNITE	Clayey, medium to dark brown - black; Bands include: LIGNEOUS CLAY, medium to dark brown.
				C2620	22.70	0.50	INFERIOR LIGNITE	Clayey, medium to dark brown - black.
				C2620	23.00	0.30	LIGNEOUS CLAY	Medium to dark brown; Bands include: INFERIOR LIGNITE, clayey, medium to dark brown - black.
				C2621	23.40	0.40	LIGNEOUS CLAY	Medium to dark brown; Bands include: INFERIOR LIGNITE, clayey, medium to dark brown - black.
				C2621	24.20	0.80	INFERIOR LIGNITE	Clayey, medium to dark brown - black; Bands include: LIGNEOUS CLAY, medium to dark brown.
				C2622	25.00	0.80	LIGNEOUS CLAY	Medium to dark brown.
				C2623	25.30	0.30	LIGNEOUS CLAY	Medium to dark brown.
				C2623	25.76	0.46	INFERIOR LIGNITE	Clayey, medium to dark brown - black.
				C2623	26.10	0.34	LIGNEOUS CLAY	Medium to dark brown.
				C2623	26.45	0.35	INFERIOR LIGNITE	Clayey, medium to dark brown - black.
				C	26.60	0.15	INFERIOR LIGNITE	Clayey, medium to dark brown - black.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					27.60	1.00	CLAY	Light to medium grey.
				C	28.20	0.60	CLAY	Carbonaceous, light to medium grey - brown.
				C2624	28.26	0.06	CLAY	Carbonaceous, light to medium grey - brown, firm, low plasticity (clay), good core - unbroken, common ligneous wisps.
				C2624	28.50	0.24	CLAY	Carbonaceous, ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, gradational base, common ligneous wisps; Bands include: CLAY, carbonaceous, ligneous, medium to dark brown, stiff, low plasticity (clay), good core - unbroken, common ligneous wisps.
				C2624	28.80	0.30	CLAY	Carbonaceous, light to medium grey - brown, stiff, low plasticity (clay), good core - unbroken, gradational base, common ligneous wisps.
				C2624	28.95	0.15	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C2624	29.02	0.07	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, fissile;
								SOME BRIGHT BANDS, HIGHER CLAY CONTENT THAN PREVIOUS UNIT
				C2624	29.49	0.47	CLAY	Ligneous, medium to dark brown, firm, low plasticity (clay), good core - unbroken, rare resin aggregates.
				C2624	29.54	0.05	INFERIOR LIGNITE	Clayey, medium to dark black - brown, stiff, low plasticity (organic), good core - unbroken.
					31.00	1.46	CORE LOSS	
				C2614	31.13	0.13	INFERIOR LIGNITE	Clayey, medium to dark black - brown, firm, friable, good core - unbroken, gradational base;
								INCREASED CLAY CONTENT TOWARDS BASE
				C2614	31.18	0.05	LIGNEOUS CLAY	Medium to dark brown - black, firm, low plasticity (organic), good core - unbroken, sharp irregular base.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2614	31.23	0.05	CLAY	Carbonaceous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, sharp planar base, beds dip at 10 degrees, occasional ligneous wisps.
				C2614	31.30	0.07	CLAY	Ligneous, medium to dark brown, firm, low plasticity (organic), good core - unbroken, gradational base, occasional ligneous wisps.
				C2614	31.36	0.06	CLAY	Carbonaceous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, sharp irregular base.
				C2614	31.44	0.08	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken, gradational base, abundant ligneous wisps.
				C2614	31.64	0.20	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 60:40 - INFERIOR LIGNITE: clayey, medium to dark black - brown, firm, friable, good core - unbroken, sharp planar base, beds dip at 05 degrees; LIGNEOUS CLAY: medium to dark brown, firm, high plasticity (organic), good core - unbroken.
				C2614	31.72	0.08	CLAY	Carbonaceous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base, rare resin aggregates; Additional features include: common ligneous wisps; INCREASED CARBON CONTENT TOWARDS BASE
				C2614	31.80	0.08	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken, occasional resin aggregates; Additional features include: common ligneous wisps; LOW STRENGTH CLAY, CRUMBLES READILY RELATIVELY HIGH LIGNEOUS CONTENT
				C2614	31.98	0.18	CLAY	Carbonaceous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, occasional resin aggregates; Additional features include: common ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2614	32.04	0.06	CLAY	Carbonaceous, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base; occasional ligneous wisps; INCREASED CARBON CONTENT TOWARDS BASE
				C2614	32.07	0.03	INFERIOR LIGNITE	Clayey, medium to dark black - brown, firm, friable, good core - unbroken, gradational base; HIGHER CLAY CONTENT THAN STRATIGRAPHICALLY LOWER UNIT.
				C2614	32.15	0.08	INFERIOR LIGNITE	Clayey, dark black - brown, firm, friable, good core - unbroken, gradational base.
				C2614	32.26	0.11	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, good core - unbroken, gradational base; INCREASED CLAY CONTENT OVER PREVIOUS UNIT
				C2614	32.34	0.08	CLAY and INFERIOR LIGNITE	Intermixed 70:30. CLAY: carbonaceous, light to medium brown, firm, low plasticity (clay), good core - unbroken; INFERIOR LIGNITE: clayey, medium to dark brown, firm, friable.
				C2615	32.60	0.26	CLAY	Carbonaceous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, common ligneous wisps.
				C2615	32.63	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
				C2615	32.67	0.04	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, low plasticity (organic), good core - unbroken; Bands include: INFERIOR LIGNITE, clayey, medium to dark brown, firm, friable.
				C2615	32.70	0.03	LIGNEOUS CLAY	Light to medium brown, firm, low plasticity (organic), good core - unbroken.
				C2615	32.97	0.27	CLAY	Carbonaceous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2615	33.09	0.12	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, common ligneous wisps.
				C2615	33.26	0.17	LIGNEOUS CLAY	Carbonaceous, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base, common woody fragments.
				C2615	33.40	0.14	LIGNEOUS CLAY	Light to medium brown, firm, low plasticity (organic), good core - unbroken, gradational base, common ligneous wisps.
				C2615	33.52	0.12	CLAY	Carbonaceous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, sharp irregular base, beds dip at 15 degrees.
				C2615	33.54	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, gradational base, DECREASED CLAY CONTENT TOWARDS BASE.
				C2615	33.55	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, fissile, gradational base.
				C2615	33.58	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp irregular base, beds dip at 15 degrees.
				C2615	33.64	0.06	CLAY	Carbonaceous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, occasional ligneous wisps.
				C2616	33.97	0.33	CLAY	Light to medium grey - brown, firm, low plasticity (clay), good core - unbroken, gradational base.
				C2616	34.19	0.22	CLAY	Light to medium brown - grey, firm, low plasticity (clay), good core - unbroken.
				C2616	34.60	0.41	CORE LOSS	
				C2616	34.62	0.02	CLAY	Carbonaceous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, common ligneous fragments.
				C2616	34.65	0.03	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, occasional ligneous fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2616	34.71	0.06	CLAY	Carbonaceous, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, common ligneous wisps.
				C2616	35.43	0.72	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C2616	35.86	0.43	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, common bioturbation.
				C2616	35.98	0.12	CLAY	Carbonaceous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base.
				C2616	36.15	0.17	CLAY and INFERIOR LIGNITE	Interbedded 60:40. CLAY: carbonaceous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken; INFERIOR LIGNITE: clayey, medium to dark brown, firm, friable.
				C2616	36.30	0.15	CLAY	Carbonaceous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base, common woody fragments.
				C2616	36.98	0.68	CLAY	Carbonaceous, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C2616	37.02	0.04	CLAY	Carbonaceous, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, common ligneous wisps.
				C2616	37.54	0.52	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, occasional bioturbation; RARE CARBONACEOUS WISPS.
					37.60	0.06	CORE LOSS	
				C2617	38.01	0.41	CLAY	Light to medium grey, firm, expanding clay, good core - unbroken, gradational base, occasional bioturbation.
				C2617	38.35	0.34	CLAY	Carbonaceous, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2617	38.54	0.19	CLAY	Interbedded 50:50: carbonaceous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, sharp irregular base, common ligneous fragments; Additional features include: occasional bioturbation; LIGNEOUS CLAY: medium to dark brown - black, firm, low plasticity (organic).
				C2617	38.72	0.18	CLAY	Carbonaceous, light to medium grey - brown, firm, high plasticity (clay), gradational base, common ligneous wisps.
				C2617	38.84	0.12	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), gradational base.
				C2617	38.97	0.13	CLAY	Carbonaceous, light to medium grey - brown, firm, high plasticity (clay), common ligneous wisps.
				C2617	39.39	0.42	INFERIOR LIGNITE and CLAY	Interbedded 90:10: INFERIOR LIGNITE: clayey, medium to dark black - brown, firm, friable, gradational base, common bioturbation; CLAY: carbonaceous, light to medium grey - brown, firm, high plasticity (clay).
				C2617	39.50	0.11	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), rare resin aggregates.
				C2617	39.61	0.11	CLAY	Carbonaceous, light to medium brown - grey, firm, low plasticity (clay), gradational base.
				C2617	39.71	0.10	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable, rare resin aggregates; RARE SANDY, CLAYEY LENSES
				C2617	39.79	0.08	INFERIOR LIGNITE	Medium to dark black - brown, stiff, friable, common woody fragments.
				C2617	39.87	0.08	INFERIOR LIGNITE	Clayey, medium to dark black - brown, stiff, friable, gradational base, rare resin aggregates; Additional features include: common woody fragments.
				C2617	39.92	0.05	INFERIOR LIGNITE	Woody textured, clayey, medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, gradational base.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2617	40.09	0.17	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (clay), good core - unbroken, rare resin aggregates.
				C2619	40.20	0.11	CLAY	Carbonaceous, woody textured, light to medium brown, firm, low plasticity (clay), good core - unbroken, gradational base.
				C2619	40.42	0.22	CLAY	Carbonaceous, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, common woody wisps.
				C2619	40.60	0.18	CLAY	Ligneous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base, common ligneous fragments.
				C2619	40.67	0.07	INFERIOR LIGNITE and INFERIOR LIGNITE	Interbedded 60:40 INFERIOR LIGNITE: clayey, medium to dark brown - black, firm, low plasticity (organic), good core - unbroken; INFERIOR LIGNITE: clayey, medium to dark brown, firm, low plasticity (organic).
				C2619	40.91	0.24	LIGNEOUS CLAY	Medium to dark black - brown, firm, high plasticity (organic), good core - unbroken, gradational base, abundant clay clasts; RARE ANGULAR PEBBLES
				C2619	40.95	0.04	INFERIOR LIGNITE	Clayey, medium to dark black - brown, firm, high plasticity (organic), good core - unbroken.
				C2619	41.05	0.10	CLAY	Ligneous, light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, gradational base.
				C2619	41.14	0.09	CLAY	Light to medium brown - grey, firm, low plasticity (clay), good core - unbroken, sharp irregular base, beds dip at 05 degrees.
				C2619	41.16	0.02	LIGNEOUS CLAY	Medium to dark brown - black, firm, low plasticity (organic).
				C2619	41.23	0.07	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, low plasticity (organic).
				C2619	41.29	0.06	INFERIOR LIGNITE	Medium to dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, light to medium brown - grey, firm, low plasticity (organic).

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2619	41.32	0.03	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable.
				C2619	41.35	0.03	LIGNEDUS CLAY	Medium to dark brown - black, firm, low plasticity (organic), common woody fragments.
				C2619	41.37	0.02	CLAY	Ligneous, light to medium brown, firm, low plasticity (clay), common woody fragments.
				C	42.99	1.62	CLAY	Light to medium grey, firm, low plasticity (clay), subfissile, rare resin aggregates; Additional features include: common bioturbation; RARE CARBONACEOUS WISPS
				C	43.60	0.61	CLAY	Light to medium grey - brown, firm, low plasticity (clay), good core - unbroken, abundant woody fragments.
				C	44.41	0.81	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, rare resin aggregates; COMMON DISSEMINATED FINE GRAINED CARBONACEOUS MATERIAL, SOME BRANCHES AND LOGS.
				C	45.14	0.73	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken; LESS BROWN IN COLOR THAN OVERLYING UNIT
				C	46.58	1.44	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken; TRACE OF CARBONACEOUS MATERIAL
				C	46.60	0.02	CORE LOSS	

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C	47.69	1.09	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, occasional carbonaceous root traces; RARE SANDY CLASTS UP TO 2CM IN SIZE
				C	48.26	0.57	CLAY	Light to medium grey - brown, firm, high plasticity (clay).
				C	48.44	0.18	CLAY	Ligneous, light to medium brown - grey, firm, low plasticity (clay).
				C	49.60	1.16	CLAY	Light to medium grey, firm, high plasticity (clay); RARE SANDY PODS AND LENSES

END OF BORE AT 49.60 m

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EL2080 LAUNCESTON. C0042

Easting: 509700.000
Northing: 5392400.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 150.00
Datum: Australian Height Datum

Logging Organisation: AAR Limited
Logged By: DSBHOLZ
Drilling Contractor: Exploration Drilling, WA Pty. Ltd.
Geophysical Logging: AAR Limited

Sheet Reference:

County:

Sheet Index:

Parish:

Total Depth: 60.00

Portion:

Drilling Commenced: 14/03/81

Drilling Completed: 15/03/81

Inclination: 90

Azimuth:

Standing Water Level:

Plug Depths:

Hole Diameter: 125

Core Diameter:

Cased Depths:

Core Barrel: Triefus Triple Barrel

Available Data: Gamma Logs

Self Potential Logs

Resistivity Logs

Drill Bits:

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

EL2080 LAUNCESTON. C0042

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					2.00	2.00	SILT	Humified, red - brown, highly weathered, soft, iron oxide, secondary, staining.
TE					7.00	5.00	CLAY	Siliceous, gravelly, red - brown, highly weathered, soft, iron oxide, secondary, staining.
TE					15.00	8.00	CLAY	Mottled red - grey, highly weathered, soft, plasticity (un-differentiated), iron oxide, secondary, staining.
TE					20.00	5.00	CLAY	Dark grey - brown, plasticity (un-differentiated), abundant carbonaceous remains; THIN SIDERITE BANDS 1 TO 5CM THROUGHOUT, 35CM SIDERITE BAND BETWEEN 29 AND 32M
TE				C0101	21.00	1.00	CLAY	
TE					33.00	12.00	CLAY	
TE					37.00	4.00	SILT	Sandy, light brown - grey, abundant carbonaceous remains; FEW THIN SIDERITE BANDS, WOOD FRAGMENTS NUMEROUS
TE				C0102	38.00	1.00	SILT	
TE					40.00	2.00	SILT	
TE					48.00	8.00	GRAVEL	Pebbly, grey, loose, non-plastic, poorly sorted, rounded, occasional carbonaceous remains; PEBBLES OF QUARTZ AND QUARTZITE
TE					60.00	12.00	CLAY	Siliceous, dark brown - grey, soft, plasticity (un-differentiated), abundant carbonaceous remains; THIN LIGNITE INTERBEDS.
								MUCH HOLE CONTAMINATION FROM GRAVELS. POOR SAMPLES.
								CORE RUNS-RECOVERY 20-23, REC 1.2M; 23-26 REC 2.2M;
								26-29 REC 2.55M; 29-32 REC 1.0M, 32-35 REC 1.5M,
								35-38 REC 2.2M, 38-41 REC 1.5M
								AAR BH1 HAS BEEN RENAMED C0042
								END OF BORE AT 60.00 m

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LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080
LAUNCESTON

TENEMENT 2080

EL2080 LAUNCESTON. C0052

Easting: 503700.000
Northing: 5392300.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Cr1: 185.00

Logging Organisation: AAR Limited
Logged By: OSBHDLZ
Drilling Contractor: Exploration Drilling, WA Pty. Ltd.
Geophysical Logging: AAR Limited

Datum: Australian Height Datum

Sheet Reference:
Sheet Index:

County:
Parish:
Portion:

Total Depth: 65.00
Drilling Commenced: 25/03/81
Drilling Completed: 25/03/81
Inclination: 90

Plug Depths:
Hole Diameter: 125
Core Diameter: 20
Cased Depths: 0.1
Core Barrel: Triefus Triple Barrel

Azimuth:
Standing Water Level:

Available Data: Gamma Logs
Detail Density Logs
Self Potential Logs

Drill Bits:

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					2.00	2.00	SOIL	Silty, clayey, red - brown, highly weathered, soft, friable.
					15.00	13.00	CLAY	MOTTLED AND BANDED BROWN, RED-BROWN, AND BLUE-GREY (PLASTIC) CLAYS
					30.00	15.00	CLAY	Dark grey - brown, soft, plasticity (un- differentiated), abundant carbonaceous remains.
					34.00	4.00	CLAY	Dark grey - brown, soft, plasticity (un- differentiated), abundant carbonaceous remains; INTERBEDDED BLUE-GREY (PLASTIC) CLAY AND MINOR LIGHT GREY SILT
					36.00	2.00	CLAY and SILT	Irregularly interbedded 80:20. CLAY: light blue - grey, soft, plasticity (un- differentiated); SILT: light to medium grey;
CORE RUN 1 FROM 36.00 TO 39.00 REC 100%								
				C1101	36.35	0.35	SILT	Clayey, light grey.
				C1101	36.45	0.10	SILT	Light grey, high strength, (SIDERITIC?)
				C1101	36.55	0.10	SILT	Clayey, light grey.
				C1101	36.62	0.07	SILT	Light grey, high strength, (SIDERITIC?)
				C1101	38.00	1.38	CLAY	Silty, light grey.
				C1102	38.10	0.10	CLAY	Silty, light grey.
				C1102	38.57	0.47	SILT	Clayey, light grey.
				C1102	39.00	0.43	CLAY	Silty, light grey.
				C1102	39.45	0.45	CLAY	Silty, light grey; VERY SOFT WATERLOGGED MIXED UP DURING THE DRILLING PROCESS CORE LOSS PROBABLY OCCURRED HERE
				C1102	39.66	0.21	SILT	Clayey, light grey; FEW LIGNITIC LAMELLAE

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GEOLOGICAL LOG REPORT

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LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C1102	39.73	0.07	SILT	Clayey, grey - brown, abundant carbonaceous remains; FEW LARGE WOODY FRAGMENTS
				C1102	39.81	0.08	SILT	Clayey, light grey - brown.
				C1102	39.91	0.10	SILT	Sandy, light grey.
				C1102	40.00	0.09	SILT	Sandy, light grey, high strength; (SIDERITIC?)
				C1102	40.02	0.02	SILT	Sandy, light grey, high strength; (SIDERITIC?)
				C1102	40.07	0.05	SILT	Clayey, light grey.
				C1102	40.15	0.08	SILT	Sandy, light grey - brown; LARGE WOODY FRAGMENTS
				C1102	44.00	3.85	SILT and SAND	Interbedded 90:10. SILT: clayey, light grey; SAND: silty, loose, non-plastic, fine grained; WOODY FRAGMENTS ABUNDANT
				C1102	50.00	6.00	SILT and CLAY	Interbedded 50:50. SILT: light grey; CLAY: silty, light grey - brown; MINOR FINE SAND; WOODY FRAGMENTS ABUNDANT
				C1102	52.65	2.65	CLAY	Soft, abundant carbonaceous grains; GRADES IN COLOUR FROM A DARK BROWN AT 50.00 TO A LIGHT GREY-BROWN AT 52.65; SOME LARGE WOODY FRAGMENTS
				C1102	52.75	0.10	CLAY	Silty, light grey - brown; WOODY FRAGMENTS
				C1102	52.85	0.10	SILT	Clayey, light grey - brown; WOODY FRAGMENTS
				C1102	52.94	0.09	SILT	Light grey; SOME LARGE WOOD FRAGMENTS
				C1102	53.01	0.07	SILT	Light grey, high strength; (SIDERITIC?)
				C1102	53.10	0.09	SILT	Grey - brown; WOODY FRAGMENTS

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C1102	56.10	3.00	SILT and CLAY	Interbedded 50:50. SILT: light grey; CLAY: silty, light grey - brown, plasticity (undifferentiated); ABUNDANT WOOD FRAGMENTS AND PIECES MINOR FINE SAND
				C1102	57.00	0.90	SILT and SILT	Interbedded 50:50. SILT: light grey - brown; SILT: clayey, light grey - brown, abundant carbonaceous grains; MINOR GREY CLAY LAMINAE AND MINOR WOODY FRAGMENTS
				C1102	60.00	3.00	SILT and CLAY	Interbedded 50:50. SILT: light grey; CLAY: silty, light grey - brown; MINOR FINE SAND AND WOODY FRAGMENTS
				R1103	62.00	2.00	CLAY	
					65.00	3.00	CLAY	

CORE RUNS 36-39 REC 3.0M (100%), 39-42 REC 1.15M (38%), 50-53.1 REC 3.1M (100%), 53.1-56.1 REC 15.5CM (5%), 56.1-59.1 REC 0.9M (30%)
 AAR BOREHOLE 11 IS NOW NUMBERED C0052

END OF BORE AT 65.00 m

EL2080 LAUNCESTON. C0052

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GEOLOGICAL LOG REPORT

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EL2080 LAUNCESTON. C0056

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Easting: 495300.000	Logging Organisation: AAR Limited
Northing: 5399300.000	Logged By: OSBHOLZ
Grid Type: Australian Mapping Grid	Drilling Contractor: Exploration Drilling, WA Pty. Ltd.
Accuracy: Approximate	Geophysical Logging: AAR Limited
Cr1: 165.00	
Datum: Australian Height Datum	
Sheet Reference:	County:
Sheet Index:	Parish:
Total Depth: 112.00	Portion:
Drilling Commenced: 28/03/81	
Drilling Completed: 04/04/81	
Inclination: 90	Plug Depths:
Azimuth:	Hole Diameter: 125
Standing Water Level:	Core Diameter:
	Cased Depths:
	Core Barrel: Triefus Triple Barrel
Available Data: Gamma Logs	
Self Potential Logs	
Resistivity Logs	Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

EL2080 LAUNCESTON. C0056

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					4.00	4.00	CLAY	Highly weathered, soft; MOTTLED AND BANDED RED-BROWN, YELLOW-BROWN, LIGHT BROWN AND BLUE-GREY CLAYS AND SILTY CLAYS HUMIC MATERIAL. FEW PEBBLES
					11.00	7.00	CLAY	Light blue - grey, soft, plasticity (un-differentiated); MINOR RED-BROWN CLAY. MINOR THIN HARD SILTY LAMELLAE AT 6-8M. MINOR FINE SAND AT 10-11M
					16.00	5.00	CLAY	Dark grey - brown, soft, plasticity (un-differentiated), abundant carbonaceous remains.
					18.00	2.00	CLAY	Silty, light grey, soft, plasticity (un-differentiated).
					20.00	2.00	CLAY and SILT	Interbedded 50:50. CLAY: dark grey - brown, soft, plasticity (un-differentiated), abundant carbonaceous remains; SILT: clayey, light grey - brown, soft, plasticity (un-differentiated).
					28.00	8.00	CLAY and SILT	Interbedded 50:50. CLAY: light grey - brown, soft; SILT: light grey.
					42.00	14.00	SAND	Fine grained; SMALL SAMPLE RETURN, SO SUSPECT FINE LOOSE SANDS WITH ABUNDANT WOODY MATERIAL
					50.00	8.00	SILT	Clayey, light grey - brown; MINOR WOODY MAERIAL MINOR COARSE SAND AT 40-44M
					50.68	0.68	LIGNITE	Dark brown - black, soft; MINOR SANDY INCLUSIONS
				C1501	51.30	0.62	SILT	Clayey, medium to dark brown, abundant carbonaceous remains; THIN LIGNITIC LAMELLAE OCCASIONAL WOOD FRAGMENTS
				C1501	51.44	0.14	LIGNITE	Dark brown - black, soft; FEW FINE CLAY LAYERS
				C1501	52.10	0.66	SILT and LIGNITE	Lamellae 60:40. SILT: clayey, dark brown; LIGNITE: black, fissile.
				C1502	52.75	0.65	OIL SHALE	Ligneous, black, fissile, lamellae; ABUNDANT SOFT BLACK LIGNITIC FRAGMENTS

EL2080 LAUNCESTON, C0055

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C1502	56.00	3.25	SILT	Clayey, brown; LIGNITIC INTERBEDS
				C1502	60.00	4.00	SILT and CLAY	Interbedded 50:50. SILT: clayey, light grey - brown; CLAY: silty, light grey - brown; LIGNITIC BANDS ABUNDANT WOODY FRAGMENTS. RARE PEBBLES
				C1504	62.00	2.00	CLAY	
				C1505	64.00	2.00	CLAY	
				R1506	66.00	2.00	CLAY	
					70.00	4.00	CLAY	
					70.50	0.50	CLAY	Blue - grey, soft; FEW ORGANIC INCLUSIONS AND WOODY FRAGMENTS
					71.20	0.70	LIGNITE	Black - brown, fissile.
					72.10	0.90	SILT	Clayey, sandy; LIGNITIC LAMINAE AND OCCASIONAL WOOD FRAGMENTS
					72.23	0.13	LIGNITE	Clayey, brown; FEW SILT INCLUSIONS
					73.35	1.12	SILT	Clayey, grey; ABUNDANT WOOD FRAGMENTS AND THIN LIGNITIC LAMELLAE
				C1507	73.50	0.15	OIL SHALE	Ligneous, brown - black, fissile; CLAYEY LAMINAE AND SANDY INCLUSIONS
				C1507	75.30	1.80	CLAY	Silty, blue - grey; OCCASIONAL LIGNITIC FRAGMENTS
				C1507	75.80	0.50	SILT	Clayey, brown - grey; NUMEROUS WOODY INCLUSIONS
				C1507	76.24	0.44	SILT	Clayey, sandy, fine grained; NUMEROUS THIN BLACK WOODY LAMELLAE
				C1507	76.60	0.36	CLAY	Silty, blue - grey; FEW ORGANIC FRAGMENTS

LAUNCESTON.

GEOLOGICAL LOG REPORT

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C1507	76.70	0.10	SILT	High strength; (SIDERITIC?)
				C1507	77.00	0.30	CLAY	Silty, blue - grey; FEW ORGANIC FRAGMENTS
				C1507	86.00	9.00	SILT and CLAY	Interbedded 50:50. SILT: clayey, light grey - brown, very soft; CLAY: silty, light grey - brown, very soft; LIGNITIC BANDS WOODY FRAGMENTS ABUNDANT. RARE PEBBLES
				C1508	89.00	3.00	CLAY	
					89.35	0.35	CLAY	Brown - grey; DISSEMINATED WOOD PARTICLES. OCCASIONAL LIGNITIC LAMELLAE. RARE PEBBLES
					90.55	1.20	SILT	Clayey, burrows; MINOR BROWN SILT CLASTS
					91.45	0.90	SILT	Light grey, very soft; FINELY SANDY AT BASE
					91.55	0.10	SILT	(SIDERITIC?)
					92.20	0.65	SILT	Sandy, light grey, very soft.
					92.48	0.28	SILT	Clayey, light grey.
					92.89	0.41	CLAY	Silty, light grey.
					92.97	0.08	SILT	High strength; (SIDERITIC?)
					95.00	2.03	CLAY	Siliceous, light grey, very soft.
				C1509	95.30	0.30	CLAY	
				C1509	95.95	0.65	CLAY	Siliceous, light grey; RARE WOODY FRAGMENTS
				C1509	96.10	0.15	CLAY	Brown - grey.
				C1509	96.27	0.17	LIGNITE	Fissile.

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LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C1509	97.26	0.99	CLAY	Brown - grey; DISSEMINATED WOODY PARTICLES AND OCCASIONAL LIGNITIC LAMELLAE TO 2MM. LARGE WOODY PIECES (ROOTS) FROM 96.80-97.26
				C1510	97.44	0.18	OIL SHALE	Ligneous, fissile.
					97.98	0.54	CLAY	Brown - grey; DISSEMINATED WOOD PARTICLES
					98.10	0.12	CLAY and LIGNITE	Lamellae 50:50. CLAY: ligneous, brown - grey; LIGNITE: clayey.
					98.42	0.32	CLAY	Brown - grey; DISSEMINATED WOOD PARTICLES
					99.12	0.70	CLAY	Silty, light grey, common carbonaceous remains.
					100.40	1.28	SILT	Clayey, light grey.
					100.75	0.35	SILT	Light grey, soft.
					100.85	0.10	SILT	Sandy, light grey, low strength; SLIGHTLY INDURATED (SIDERITIC?)
					101.15	0.30	SILT	Clayey, light grey, soft.
					101.46	0.31	CLAY	Silty, light grey.

EL2080 LAUNCESTON. C0056

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THIESS COAL SYSTEM

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GEOLOGICAL LOG REPORT

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					112.00	10.54	SILT and CLAY	Interbedded 50:50. SILT: grey - brown; CLAY: grey - brown; MINOR LIGNITIC MATERIAL CORE RUNS 50.0-53.1 REC 3.1M (100%) 53.1-56.0 REC 0.0M (0%) 70.0-73.0 REC 3.0M (100%) 73.0-76.0 REC 3.0M (100%) 76.0-77.0 REC 0.8M (80%) 86.0-89.0 REC 0.75M (25%) 89.0-92.1 REC 3.1M (100%) 92.1-95.2 EC 3.1M (100%) 95.2-98.3 REC 3.1M (100%) 98.3-101.46 REC 3.16M (100%) AAR BOREHOLE 25 IS NOW NUMBERED C0056

END OF BORE AT 112.00 m

EL2080 LAUNCESTON. C0056

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LAUNCESTON.

THIESS COAL SYSTEM
GEOLOGICAL LOG REPORT

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ATP EL2080 TENEMENT 2080
LAUNCESTON

EL2080 LAUNCESTON. C0059

Easting: 496300.000
Northing: 5402500.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Cr1: 155.00
Datum: Australian Height Datum

Logging Organisation: AAR Limited
Logged By: HOLZOSB
Drilling Contractor: Exploration Drilling, WA Pty. Ltd.
Geophysical Logging: AAR Limited

Sheet Reference:

County:

Sheet Index:

Parish:

Total Depth: 52.00

Portion:

Drilling Commenced: 04/04/81

Drilling Completed: 05/04/81

Inclination: 90

Azimuth:

Plug Depths:

Hole Diameter: 125

Core Diameter:

Cased Depths: 2.0

Core Barrel: Triefus Triple Barrel

Standing Water Level:

Available Data: Gamma Logs

Self Potential Logs

Resistivity Logs

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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STRAT NAME	SEQ NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					3.00	3.00	SOIL	Siliceous, clayey, brown.
TE					10.00	7.00	CLAY and CLAY	Interbedded 50:50. CLAY: brown - grey, weathered, soft, plasticity (un-differentiated), iron oxide, secondary, staining; CLAY: siliceous, weathered, soft; FEW PEBBLES
TE					18.00	8.00	CLAY	Grey - brown, soft, abundant carbonaceous remains; FEW THIN LIGNITE INTERBEDS
TE					21.00	3.00	SILT	Clayey, grey - brown; THIN LIGNITE INTERBEDS
TE				C1801	21.20	0.20	OIL SHALE	Ligneous, brown - black, fissile, lamellae, low angle inclined bedding, sharp irregular base.
TE					21.65	0.45	CLAY	Brown, abundant carbonaceous remains.
TE					21.65	0.00	CLAY	
TE				C1802	22.12	0.47	OIL SHALE	Ligneous, clayey, brown - black, fissile, lamellae, low angle inclined bedding, sharp irregular base.
TE				C1803	22.40	0.28	CLAY	Dark brown, abundant carbonaceous remains.
TE				C1803	22.53	0.13	OIL SHALE	Ligneous, clayey, brown - black, lamellae, low angle inclined bedding, sharp irregular base.
TE				C1803	23.30	0.77	CLAY	Brown - grey, abundant carbonaceous remains.
TE				C1804	23.68	0.38	OIL SHALE	Ligneous, clayey, brown - black, lamellae, low angle inclined bedding, sharp irregular base.
TE				C1804	23.88	0.20	CLAY	Brown - grey, abundant carbonaceous remains.
TE				C1804	24.00	0.12	CLAY	
TE				C1805	27.00	3.00	CLAY	Brown, soft, abundant carbonaceous remains; LIGNITE INTERBEDS TO 20CM
TE				C1805	29.27	2.27	CLAY	Green - grey, soft, abundant carbonaceous remains.
TE				C1805	29.79	0.52	CLAY and SILT	Finely interbedded 50:50. CLAY: brown - grey, fine bedding, abundant carbonaceous remains; SILT: clayey, green - grey.

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EL2080 LAUNCESTON. C0059

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C1805	29.89	0.10	OIL SHALE	Ligneous, clayey, brown - black, soft, lamellae, low angle inclined bedding, sharp irregular base.
TE				C1805	30.00	0.11	CLAY	Dark brown, abundant carbonaceous remains.
TE				C1806	30.76	0.76	CLAY	
TE				C1806	30.94	0.18	OIL SHALE	Ligneous, clayey, brown - black, fissile, lamellae, low angle inclined bedding, sharp irregular base.
TE				C1806	31.00	0.06	CLAY	Dark brown, abundant carbonaceous remains.
TE				C1806	31.19	0.19	OIL SHALE	Ligneous, clayey, brown - black, fissile.
TE				C1806	31.34	0.15	CLAY	Dark brown, abundant carbonaceous remains.
TE				C1806	31.39	0.05	OIL SHALE	Ligneous, clayey, brown - black, fissile.
TE				C1806	31.52	0.13	CLAY	Dark brown, abundant carbonaceous remains.
TE				C1806	31.63	0.11	OIL SHALE	Ligneous, clayey, brown - black, fissile.
TE				C1806	31.72	0.09	CLAY	Dark brown, abundant carbonaceous remains.
TE				C1806	31.83	0.11	OIL SHALE	Ligneous, clayey, brown - black.
TE				C1806	32.00	0.17	CLAY	Dark brown, abundant carbonaceous remains.
TE				C1807	32.10	0.10	CLAY	
TE				C1807	32.13	0.03	OIL SHALE	Ligneous, clayey, brown - black.
TE				C1807	32.24	0.11	CLAY	Dark brown, abundant carbonaceous remains.
TE				C1807	32.30	0.06	OIL SHALE	Ligneous, clayey, brown - black.
TE				C1807	32.38	0.08	CLAY	Dark brown, abundant carbonaceous remains.
TE				C1807	32.42	0.04	OIL SHALE	Ligneous, clayey, brown - black.
TE				C1807	33.00	0.58	CLAY	Dark brown, abundant carbonaceous remains.
TE				C1807	33.10	0.10	OIL SHALE	Ligneous, clayey, brown - black.
TE				C1808	36.00	2.90	CLAY	Siliceous, brown - grey; LIGNITIC OIL SHALE INTERBEDS

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ATP EL2080 TENEMENT 2080
LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE				C1808	42.00	6.00	CLAY	Grey - brown, soft, plasticity (un- differentiated).
TE				C1808	52.00	10.00	CLAY	Siliceous, light grey, soft;

CORE RUN-RECOVERY 21-24M REC 2.88M, 24-27M REC

2.0M, 27-30M REC 3.0M, 30-33M REC 3.0M 33-36M

REC 1.4M

AAR BOREHOLE 18 IS NOW NUMBERED C0059

END OF BORE AT 52.00 m

EL2080 LAUNCESTON. C0059

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LAUNCESTON.

THIESS COAL SYSTEM
GEOLOGICAL LOG REPORT

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ATP EL2080 TENEMENT 2080
LAUNCESTON

EL2080 LAUNCESTON, C0064

Easting: 487150.000
Northing: 5410980.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Cpl: 160.00

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: Deadline Drilling
Geophysical Logging: Century Geophysical Corp.

Datum: Approximate Level - Not Surveyed

Sheet Reference:

County:

Sheet Index:

Parish:

Total Depth: 21.00

Portion:

Drilling Commenced: 11/04/82

Drilling Completed: 11/04/82

Inclination:

Plug Depths:

Azimuth:

Hole Diameter: 140

Standing Water Level:

Core Diameter: 100

Cased Depths:

Core Barrel: Triefus Triple Barrel

Available Data:

- Gamma Logs
- Neutron Logs
- Density Logs
- Self Potential Logs
- Resistivity Logs
- Caliper Logs

Drill Bits: Blades
Tungsten Carbide

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

EL2080 LAUNCESTON, C0064

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	1.50	1.50	CLAY	Light to medium brown, firm, low plasticity (clay).
				R	2.00	0.50	CLAY	Kaolinitic, light to medium grey, firm, low plasticity (clay).
				R	2.40	0.40	SAND	Quartzose, clayey, light to medium orange, medium dense, non-plastic, medium grained, uniform, well sorted, subrounded, equant, gradational base.
				R	3.50	1.10	SAND	Quartzose, clayey, light to medium yellow, medium dense, non-plastic, medium grained, uniform, well sorted, subrounded, equant;
POSSIBLY DERIVED FROM TRIASSIC STRATA								
				R	4.00	0.50	SAND	Clayey, quartzose, light to medium brown, medium dense, non-plastic, medium grained, uniform, well sorted, subrounded, equant.
				R	5.00	1.00	CLAY	Sandy, micaceous, light to medium brown, firm, low plasticity (clay).
				R	6.50	1.50	CLAY	Sandy, micaceous, light to medium grey, firm, low plasticity (clay); Additional features include: kaolinitic.
				R	7.56	1.06	CLAY	Light to medium brown, firm, low plasticity (clay); Bands include: LIGNITE, dark brown, soft, friable.
				R	9.06	1.50	CLAY and CLAY	Interbedded 70:30, CLAY: light to medium brown - grey, firm, low plasticity (clay); CLAY: silty, light to medium brown, firm, low plasticity (clay).
				C0212	9.07	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), abundant woody fragments; Additional features include: occasional resin aggregates.
				C0212	9.09	0.02	INFERIOR LIGNITE	Woody textured, peaty, dark brown - black, low strength, brittle.
				C0212	9.11	0.02	CLAY	Medium to dark brown - grey, firm, low plasticity (clay), occasional resin aggregates.

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LAUNCESTON

LAUNCESTON.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0212	9.31	0.20	CLAY	Light to medium grey - brown, firm, low plasticity (organic), occasional resin aggregates; ROOTS ABUNDANT
				C0212	9.35	0.04	CLAY	Light to medium brown, firm, high plasticity (clay); ROOTS ABUNDANT
				C0212	9.41	0.06	CLAY	Sandy, light to medium brown, firm, high plasticity (clay), common bioturbation.
				C0212	9.48	0.07	CLAY	Sandy, light to medium brown - grey, firm, high plasticity (clay), common bioturbation.
				C0212	9.61	0.13	CLAY	Sandy, light to medium grey - brown, firm, high plasticity (clay); ROOTS COMMON
				C0212	9.70	0.09	CLAY	Sandy, light to medium grey, firm, high plasticity (clay).
				C0212	9.84	0.14	CLAY	Sandy, light to medium grey - green, firm, high plasticity (clay).
				C0212	9.89	0.05	SAND	Clayey, quartzose, light to medium grey - green, firm, low plasticity (clay), medium grained.
				C0212	9.94	0.05	CLAY	Sandy, light to medium grey - green, firm, high plasticity (clay).
				C0212	10.01	0.07	CLAY	Sandy, light to medium brown - grey, firm, high plasticity (clay).
				C0213	10.17	0.16	CLAY and INFERIOR LIGNITE	Intermixed 60:40. CLAY: sandy, medium to dark brown, firm, low plasticity (organic); INFERIOR LIGNITE: dark brown, firm, friable, abundant bioturbation.
				C0213	10.39	0.22	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, abundant bioturbation.

EL2080 LAUNCESTON. C0064

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STRAT NAME	SEQ NO.	SEAM NAME	WGRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0213	10.47	0.08	INFERIOR LIGNITE and CLAY	Intermixed 60:40. INFERIOR LIGNITE: clayey, dark brown, firm, friable, abundant bioturbation; CLAY: light to medium brown - grey, firm, high plasticity (clay).
				C0213	10.54	0.07	CLAY	Light to medium brown - grey, firm, high plasticity (clay), occasional woody fragments.
				C0213	10.62	0.08	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, abundant bioturbation.
				C0213	10.77	0.15	CLAY	Light to medium brown - grey, firm, low plasticity (organic).
				TOP OF SEAM SA1		10.77		
		SA1		C0214	10.80	0.03	CLAY	Silty, light to medium brown, firm, low plasticity (organic).
		SA1		C0214	10.89	0.09	LIGNITE	Clayey, medium to dark brown, firm, friable, sharp irregular base, common bioturbation.
		SA1		C0214	11.48	0.59	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, occasional resin aggregates; Additional features include: abundant bioturbation.
		SA1		C0214	11.50	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic).
		SA1		C0214	11.58	0.08	LIGNITE	Clayey, dark brown - black, firm, friable.
		SA1		C0214	11.70	0.12	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic).
		SA1		C0214	11.78	0.08	LIGNITE	Clayey, dark brown, firm, friable.
		SA1		C0214	11.79	0.01	LIGNITE	Woody textured, peaty, dark brown, low strength, brittle.
		SA1		C0214	11.83	0.04	LIGNITE and LIGNITE	Interbedded 50:50. LIGNITE: clayey, dark brown, firm, friable; LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle.
		SA1		C0214	12.06	0.23	LIGNITE	Woody textured, dark brown - black, firm, friable, occasional bioturbation.
		SA1		C0215	12.17	0.11	LIGNITE	Clayey, dark brown - black, firm, friable.
		SA1		C0215	12.19	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic).

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LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SA1		C0215	12.21	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay).
		SA1		C0215	12.24	0.03	CLAY	Medium to dark brown, firm, low plasticity (organic).
		SA1		C0215	12.34	0.10	LIGNITE	Clayey, dark brown - black, firm, friable, occasional bioturbation.
		SA1		C0215	12.37	0.03	LIGNITE	Clayey, woody textured, dark brown, firm, friable, occasional bioturbation.
		SA1		C0215	12.45	0.08	LIGNITE	Clayey, dark brown - black, firm, friable.
		SA1		C0215	12.48	0.03	LIGNITE	Clayey, dark brown - black, firm, slickensides on fracture, friable, sparse, oblique joints, angle of joints 40 degrees.
		SA1		C0215	12.49	0.01	LIGNEOUS CLAY	Dark brown - black, firm, slickensides on fracture, low plasticity (organic), sparse, oblique joints, angle of joints 40 degrees.
		SA1		C0215	12.51	0.02	CLAY	Light to medium brown, firm, high plasticity (clay), gradational base.
		SA1		C0215	12.53	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), gradational base.
		SA1		C0215	12.57	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic).
		SA1		C0215	12.65	0.08	LIGNITE	Clayey, dark brown - black, firm, friable, sharp planar base, beds dip at 00 degrees.
		SA1		C0215	12.70	0.05	LIGNEOUS CLAY	Dark brown - grey, firm, low plasticity (organic), gradational base.
		SA1		C0215	12.75	0.05	CLAY	Light to medium grey - brown, firm, high plasticity (clay).
		SA1		C0215	12.78	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), abundant bioturbation.
		SA1		C0215	12.95	0.17	LIGNITE	Clayey, dark brown - black, firm, friable, occasional bioturbation.
		SA1		C0215	13.11	0.16	LIGNITE	Clayey, dark brown, firm, friable, occasional bioturbation.
		SA1		C0215	13.12	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic).

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SA1		C0215	13.25	0.13	LIGNITE	Clayey, dark brown - black, firm, friable, occasional bioturbation.
		SA1		C0215	13.26	0.01	CLAY	Light to medium grey - brown, firm, high plasticity (clay).
		SA1		C0215	13.48	0.22	LIGNITE	Clayey, dark brown - black, firm, friable, common bioturbation.

 BASE OF SEAM SA1 13.48 2.71

				C0216	13.50	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), common bioturbation.
				C0216	13.54	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay).
				C0216	13.56	0.02	CLAY	Light to medium grey - brown, firm, high plasticity (clay).
				C0216	13.62	0.06	CLAY	Light to medium brown - grey, firm, high plasticity (clay).
				C0216	13.67	0.05	CLAY	Light to medium grey - brown, firm, high plasticity (clay).
				C0216	13.71	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay).
				C0216	13.74	0.03	CLAY	Light to medium grey - brown, firm, high plasticity (clay).
				C0216	13.78	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay).
				C0216	13.88	0.10	CLAY	Silty, light to medium brown, firm, high plasticity (clay).
				C0216	13.99	0.11	CLAY and CLAY	Intermixed 60:40. CLAY: silty, light to medium brown, firm, high plasticity (clay); CLAY: sandy, light grey, firm, low plasticity (organic).
				C0216	14.08	0.09	CLAY	Light to medium brown, firm, high plasticity (clay); SANDY WISPS OCCASIONAL
				C0216	14.13	0.05	CLAY and CLAY	Intermixed 80:20. CLAY: light to medium grey - brown, firm, high plasticity (clay); CLAY: sandy, light grey, firm, high plasticity (clay).
				C0216	14.27	0.14	CLAY	Light to medium brown, firm, high plasticity (clay).

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LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0216	14.32	0.05	CLAY	Medium to dark brown, firm, high plasticity (clay).
				C0216	14.35	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic).
				C0217	14.43	0.08	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, occasional resin aggregates; Additional features include: common bioturbation.
				C0217	14.48	0.05	CLAY	Light to medium brown, firm, high plasticity (clay).
				C0217	14.53	0.05	CLAY	Light to medium brown - grey, firm, high plasticity (clay).
				C0217	14.58	0.05	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), common bioturbation.
				C0217	14.93	0.35	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, common bioturbation.
				C0217	14.98	0.05	CLAY	Medium to dark brown, firm, high plasticity (clay).
				C0217	15.05	0.07	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay).
				TOP OF SEAM SA2		15.05		
		SA2		C0217	15.06	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic).
		SA2		C0218	15.13	0.07	LIGNITE	Clayey, dark brown - black, firm, friable.
		SA2		C0218	15.14	0.01	LIGNITE	Woody textured, dark brown - black, firm, friable.
		SA2		C0218	15.15	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay).
		SA2		C0218	15.22	0.07	LIGNITE	Clayey, dark brown, firm, friable, occasional bioturbation.
		SA2		C0218	15.24	0.02	CLAY	Light to medium brown - grey, firm, low plasticity (clay).
		SA2		C0218	15.26	0.02	LIGNITE	Clayey, dark brown, firm, friable.
		SA2		C0218	15.28	0.02	CLAY	Medium to dark brown - grey, firm, low plasticity (clay).
		SA2		C0218	15.29	0.01	LIGNITE	Clayey, dark brown, firm, friable, sharp oblique base, beds dip at 10 degrees.

EL2080 LAUNCESTON. C0064

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SA2		C0218	15.35	0.06	CLAY	Medium to dark brown - grey, firm, high plasticity (clay).
		SA2		C0218	15.91	0.56	LIGNITE	Clayey, dark brown - black, firm, friable, rare bioturbation.
		SA2		C0218	15.94	0.03	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay).
		SA2		C0218	15.97	0.03	LIGNITE	Clayey, dark brown - black, firm, friable.
		SA2		C0218	16.02	0.05	LIGNITE	Clayey, dark brown, firm, friable.
		SA2		C0218	16.18	0.16	LIGNITE	Clayey, woody textured, dark brown, firm, friable, rare bioturbation. Additional features include: occasional bioturbation.
		SA2		C0218	16.32	0.14	CLAY	Light to medium brown, firm, high plasticity (clay), common ligneous wisps.
		SA2		C0219	16.65	0.33	LIGNITE	Clayey, dark brown - black, firm, friable.
		SA2		C0219	16.71	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic).
		SA2		C0219	16.79	0.08	LIGNITE	Clayey, dark brown - black, firm, friable, sharp planar base, beds dip at 00 degrees, occasional bioturbation.
		SA2		C0219	16.84	0.05	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), sharp planar base, beds dip at 00 degrees, occasional resin aggregates.
		SA2		C0219	16.91	0.07	LIGNITE	Clayey, dark brown, firm, friable, common bioturbation.
		SA2		C0219	17.56	0.65	LIGNITE	Clayey, dark brown - black, firm, friable, common bioturbation.
		BASE OF SEAM SA2			17.56	2.51		
				C0220	17.58	0.02	CLAY	Light to medium brown, firm, high plasticity (clay).
				C0220	17.61	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), common bioturbation.
				C0220	17.65	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), common bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0220	17.69	0.04	CLAY	Medium to dark brown - grey, firm, high plasticity (clay).
				C0220	17.77	0.08	CLAY	Light to medium brown - grey, firm, high plasticity (clay); Additional features include: expanding clay.
				C0220	17.82	0.05	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), abundant bioturbation.
				C0220	18.10	0.28	CLAY	Light to medium grey - brown, firm, high plasticity (clay); Additional features include: expanding clay.
				R	21.10	3.00	NO RECORD	

SUMP DRILLED TO TD SO THAT WIRELINE

GEOPHYSICAL SONDES COULD LOG BASE
OF THE LIGNEOUS ZONE

END OF BORE AT 21.10 m

EL2080 LAUNCESTON C0064

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Easting: 496270.000	Logging Organisation: CSR Exploration and Evaluation Group
Northing: 5411630.000	Logged By: ELLIS
Grid Type: Australian Mapping Grid	Drilling Contractor: Deadline Drilling
Accuracy: Approximate	Geophysical Logging: Century Geophysical Corp.
Cr1: 140.00	
Datum: Approximate Level - Not Surveyed	
Sheet Reference:	County:
Sheet Index:	Parish:
Total Depth: 52.55	Portion:
Drilling Commenced: 07/04/82	
Drilling Completed: / /	
Inclination:	Plug Depths:
Azimuth:	Hole Diameter: 140
Standing Water Level:	Core Diameter: 100
	Cased Depths:
	Core Barrel: Triplex Triple Barrel
Available Data: Gamma Logs	
Neutron Logs	
Density Logs	Drill Bits: Blades
Self Potential Logs	Tungsten Carbide
Resistivity Logs	
Caliper Logs	

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

EL2080 LAUNCESTON. C0067

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	3.00	3.00	CLAY	Mottled orange - pink, firm, high plasticity (clay).
				R	3.50	0.50	CLAY	Kaolinitic, light to medium grey - white, firm, high plasticity (clay); Bands include: INFERIOR LIGNITE, clayey, dark brown - purple, weathered, firm, friable; Bands include: LIGNEDUS CLAY, dark brown - purple, weathered, firm, high plasticity (organic).
				R	5.04	1.54	CLAY	Medium to dark brown, firm, high plasticity (clay).
				C0135	5.24	0.20	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay).
				C0135	5.54	0.30	CLAY	Light to medium brown, firm, high plasticity (clay).
				C0136	5.69	0.15	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), core broken.
				C0136	5.71	0.02	LIGNEDUS CLAY	Dark brown - black, firm, low plasticity (organic), core broken, common ligneous wisps.
				C0136	5.74	0.03	LIGNITE	Clayey, dark brown, firm, friable, core broken, common resin aggregates.
				C0136	5.81	0.07	INFERIOR LIGNITE	Clayey, sandy, dark brown - black, soft, low plasticity (organic), core broken; Additional features include: gelatinous, core broken.
				C0136	5.89	0.08	LIGNITE	Dark brown - black, soft, friable, core broken, occasional bioturbation.
				C0136	5.95	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), core broken, subfissile.
					6.15	0.20	CORE LOSS	
								SIDES OF CORE GROUND AWAY BY SPLITS, BARREL OUT OF ADJUSTMENT
				C0137	6.17	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, subfissile.
				C0137	6.21	0.04	LIGNEDUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken, subfissile.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0137	6.25	0.03	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken; LIGHT TO MID BROWN IN COLOR
				C0138	6.49	0.24	CLAY	Mottled brown, firm, high plasticity (clay), good core - unbroken.
				C0138	6.56	0.07	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, sharp irregular base.
				C0138	6.62	0.06	CLAY	Mottled brown, firm, high plasticity (clay), good core - unbroken; LIGHT-MID TO MID BROWN

TOP OF SEAM PAO 6.62

PAO				C0139	6.67	0.05	INFERIOR LIGNITE and CLAY	Intermixed 70:30. INFERIOR LIGNITE: clayey, medium to dark brown, firm, low plasticity (organic), good core - unbroken; CLAY: mottled brown, firm, high plasticity (clay); FINELY LAMINAR
PAO				C0139	6.71	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken, subfissile, sharp planar base, beds dip at 00 degrees.
PAO				C0139	6.76	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile, sharp planar base, beds dip at 00 degrees.
PAO				C0139	6.80	0.04	LIGNITE	Clayey, gelatinous, dark brown - black, soft, friable, core broken, sharp planar base, beds dip at 00 degrees.
PAO				C0139	6.91	0.11	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, fissile, sharp planar base, beds dip at 00 degrees, common resin aggregates; Additional features include: occasional bioturbation.
PAO				C0139	6.94	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken, sharp oblique base, beds dip at 05 degrees.

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STRAT NAME	SEQ NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PAO		C0139	6.97	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		PAO		C0139	6.99	0.02	LIGNITE	Clayey, gelatinous, dark brown - black, soft, friable, good core - unbroken, fissile, sharp oblique base, beds dip at 02 degrees.
		PAO		C0139	7.07	0.08	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp irregular base, beds dip at 03 degrees, occasional resin aggregates;
							LIGNEOUS CLAY AND BROWN-MID CLAYEY WISPS AND LENSES	
		PAO		C0139	7.08	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PAO		C0139	7.21	0.13	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PAO		C0139	7.23	0.02	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (organic), good core - unbroken.
		PAO		C0139	7.40	0.17	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp oblique base, beds dip at 05 degrees.
		PAO		C0140	7.45	0.05	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps; Additional features include: common resin aggregates; Additional features include: abundant ligneous wisps.
		PAO		C0140	7.57	0.12	LIGNEOUS CLAY	Dark brown, firm, high plasticity (organic), good core - unbroken, common woody fragments.
		PAO		C0140	7.74	0.17	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base.
		PAO		C0140	7.77	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic), good core - unbroken, gradational base.
		PAO		C0140	7.87	0.10	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, low plasticity (organic), good core - unbroken, gradational base.
		PAO		C0140	7.90	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, gradational base.

STRAT NAME	SEQ ND.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PA0		CO140	8.01	0.11	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base, occasional bioturbation.
		PA0		CO140	8.16	0.15	LIGNITE	Woody textured, clayey, dark black - brown, firm, friable, core crushed, fissile, gradational base, beds dip at 00 degrees, common bioturbation; BEDDING-? CROSS BEDDING AT ANGLE OF 30 DEGREES
		PA0		CO140	8.30	0.14	LIGNITE	Clayey, dark black - brown, firm, friable, good core - unbroken.
		PA0		CO140	8.35	0.05	LIGNEOUS CLAY	Dark black - brown, firm, high plasticity (organic), good core - unbroken, gradational base.
					BASE OF SEAM PA0	8.35	1.73	
				CO141	8.57	0.22	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, occasional ligneous wisps.
				CO141	8.87	0.30	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				CO141	9.02	0.15	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, subfissile.
				CO141	9.12	0.10	CLAY	Ligneous, medium to dark brown - black, firm, high plasticity (clay), good core - unbroken.
				CO141	9.19	0.07	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, subfissile.
		R			10.00	0.81	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
		R			10.80	0.80	CLAY	Light to medium brown, firm, high plasticity (clay), occasional ligneous wisps.
		R			11.50	0.70	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay).
		R			12.50	1.00	CLAY	Light to medium grey - brown, firm, high plasticity (clay).

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	14.00	1.50	CLAY	Silty, sandy, light to medium grey, firm, high plasticity (clay), fine and medium grained.
				R	15.00	1.00	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay).
				R	16.00	1.00	CLAY	Light to medium grey - brown, firm, high plasticity (clay), gradational base.
				R	16.70	0.70	CLAY	Light to medium grey, firm, high plasticity (clay).
				R	17.50	0.80	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), common ligneous wisps.
				R	18.60	1.10	CLAY	Light to medium brown - grey, firm, high plasticity (clay).
				R	20.00	1.40	CLAY and CLAY	Interbedded 50:50, CLAY: light to medium brown - grey, firm, high plasticity (clay); CLAY: light to medium grey - brown, firm, high plasticity (clay).
				R	20.10	0.10	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic).
				R	20.50	0.40	CLAY	Light to medium brown, firm, high plasticity (clay).
					TOP OF SEAM PB2		20.50	
		PB2		R	21.20	0.70	CLAY	Ligneous, dark brown - black, firm, high plasticity (clay); Bands include: LIGNEOUS CLAY, dark brown - black, firm, low plasticity (organic).
		PB2		R	22.33	1.13	LIGNITE and CLAY	Interbedded 50:50, LIGNITE: clayey, woody textured, dark brown - black, firm, friable; CLAY: ligneous, medium to dark brown, firm, high plasticity (clay).
					BASE OF SEAM PB2		22.33	1.83

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STRAT NAME	SEG NO	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	22.45	0.12	NO RECORD	
								CHIPPED WHEN CLEANING/REAMING HOLE WITH BARREL
				C0142	22.52	0.07	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, sharp planar base, beds dip at 00 degrees.
				C0142	22.56	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, sharp planar base, beds dip at 00 degrees.
				C0142	22.58	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, sharp planar base, beds dip at 00 degrees.
				C0142	22.78	0.20	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp planar base, beds dip at 00 degrees, occasional bioturbation; CLAY WISPS COMMON
				C0142	22.80	0.02	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0142	22.92	0.12	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base, occasional bioturbation; CLAY LENSES COMMON
				C0142	22.94	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, gradational base.
				C0142	22.95	0.01	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C0142	23.00	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base, common ligneous wisps.
				C0142	23.03	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
				C0142	23.06	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.

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STRAT NAME	SEQ NO	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0142	23.09	0.03	LIGNITE	Dark brown - black, firm, friable, good core - unbroken, common ligneous wisps.
				C0142	23.11	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C0142	23.15	0.04	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation; CLAY LENSES COMMON
				C0142	23.23	0.08	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp irregular base, common bioturbation.
				C0143	23.34	0.11	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base, beds dip at 05 degrees, common ligneous wisps.
				C0143	23.49	0.15	LIGNEOUS CLAY and CLAY	Interbedded 80:20, LIGNEOUS CLAY: dark brown, firm, low plasticity (organic), good core - unbroken, gradational base, beds dip at 03 degrees; CLAY: light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0143	23.78	0.29	CLAY	Light to medium brown, firm, coal cleat, high plasticity (clay), common, multi-directional joints, angle of joints 40 degrees, good core - unbroken, gradational base, beds dip at 79 degrees; LOW STRENGTH CRUMBLES READILY
				C0143	23.85	0.07	INFERIOR LIGNITE	Dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				C0143	23.88	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
				C0143	23.94	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base, common ligneous wisps.
				TOP OF SEAM PB3		23.94		

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB3		CO144	24.00	0.06	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
		PB3		CO144	24.05	0.05	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation.
		PB3		CO144	24.19	0.14	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp planar base, beds dip at 10 degrees, common bioturbation.
		PB3		CO144	24.26	0.07	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
		PB3		CO144	24.38	0.12	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
COMMON CLAY LENSES								
		PB3		CO144	24.69	0.31	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
		PB3		CO144	24.82	0.13	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB3		CO144	24.91	0.09	LIGNITE	Clayey, woody textured, dark brown, firm, coal cleat, friable, sparse, multi-directional joints, subvertical joints, good core - unbroken; Additional features include: sparse, multi-directional joints, angle of joints 50 degrees, good core - unbroken.
		PB3		CO144	25.48	0.57	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation; Additional features include: rare resin aggregates.
		PB3		CO145	25.58	0.10	LIGNITE	Clayey, dark brown - black, good core - unbroken, rare resin aggregates.
		PB3		CO145	25.61	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
		PB3		CO145	25.74	0.13	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, occasional resin aggregates;
LIGHT TO MID BROWN CLAY LENSES COMMON								

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB3		C0145	25.77	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, occasional resin aggregates.
		PB3		C0145	25.85	0.08	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, fibrous.
		PB3		C0145	26.00	0.15	LIGNITE	Woody textured, clayey, dark brown - black, firm, slickensides on fracture, friable, sparse, oblique joints, angle of joints 50 degrees, good core - unbroken, fibrous.
		PB3		C0145	26.07	0.07	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional resin aggregates.
		PB3		C0145	26.16	0.09	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0145	26.37	0.21	LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, fibrous, common resin aggregates.
					BASE OF SEAM PB3	26.37	2.43	
		PB4		C0146	26.69	0.32	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant ligneous wisps.
		PB4		C0147	27.17	0.48	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common resin aggregates.
		PB4		C0148	27.32	0.15	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
		PB4		C0148	27.55	0.23	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, gradational base.
		PB4		C0148	27.64	0.09	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		PB4		C0148	27.70	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, subfissile, common ligneous wisps.
		PB4		C0149	27.83	0.13	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, occasional resin aggregates.
		PB4		C0149	28.11	0.28	LIGNITE	Woody textured, clayey, dark brown, firm, friable, good core - unbroken, fibrous.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB4		CO149	28.18	0.07	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB4		CO149	28.38	0.20	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base, abundant ligneous wisps.
		PB4		CO149	28.47	0.09	LIGNITE	Clayey, dark brown, firm, slickensides on fracture, friable, sparse, subvertical joints, vertical joints, good core - unbroken.
		PB4		CO150	28.82	0.35	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, occasional resin aggregates.
		PB4		CO150	28.84	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, abundant resin aggregates.
		PB4		CO150	28.95	0.11	INFERIOR LIGNITE	Woody textured, peaty, dark brown, low strength, brittle, good core - unbroken.
		PB4		CO150	29.03	0.08	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, subfissile.
		PB4		CO150	29.21	0.18	LIGNITE	Woody textured, dark brown - black, firm, friable, core broken.
WOOD LOW STRENGTH AND BRITTLE								
		PB4		CO150	29.33	0.12	INFERIOR LIGNITE	Woody textured, dark brown, low strength, brittle, good core - unbroken.
		PB4		CO150	29.45	0.12	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
					BASE OF SEAM PB4	29.45	3.08	
				CO151	29.49	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base, common ligneous wisps; Additional features include: good core - unbroken, occasional resin aggregates.
				CO151	29.60	0.11	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, sharp planar base, beds dip at 05 degrees, abundant ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0151	29.69	0.09	INFERIOR LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
				C0151	29.73	0.04	LIGNEDUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0152	29.77	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C0152	29.83	0.06	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 15 degrees, abundant ligneous wisps.
				C0152	29.84	0.01	CLAY	Light to medium brown - grey, firm, low plasticity (organic), good core - unbroken.
				C0152	29.87	0.03	LIGNEDUS CLAY	Dark brown - grey, firm, low plasticity (organic), good core - unbroken.
				C0152	29.96	0.09	INFERIOR LIGNITE	Clayey, dark brown - black, firm, even fracture, friable, sparse, oblique joints, angle of joints 30 degrees, good core - unbroken.
CLAY ON FAULT SMOOTH SURFACE								
				C0152	30.16	0.20	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, sharp oblique base, beds dip at 15 degrees.
				C0152	30.25	0.09	LIGNEDUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0152	30.34	0.09	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, slickensides on fracture, friable, common, multi-directional joints, good core - unbroken.
				C0152	30.41	0.07	LIGNEDUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common ligneous wisps.
				C0152	30.51	0.10	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 20 degrees.
				C0152	30.52	0.01	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 20 degrees.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0152	30.57	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, slickensides on fracture, friable, sparse, oblique joints, angle of joints 60 degrees, good core - unbroken, sharp oblique base, beds dip at 20 degrees.
				C0153	30.66	0.09	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken, sharp oblique base, beds dip at 20 degrees.
				C0153	30.67	0.01	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 20 degrees.
				C0153	30.71	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, sharp oblique base, beds dip at 20 degrees.
				C0153	30.72	0.01	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 20 degrees.
				C0153	30.76	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 20 degrees.
				C0153	30.77	0.01	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 20 degrees.
				C0153	30.80	0.03	INFERIOR LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, sharp oblique base, beds dip at 20 degrees.
				C0153	30.89	0.09	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common ligneous wisps; Additional features include: occasional resin aggregates.
				C0154	30.99	0.10	LIGNEOUS CLAY	Woody textured, firm, slickensides on fracture, low plasticity (organic), sparse, subvertical joints, vertical joints, good core - unbroken; ALMOST FRIABLE SIDERITE LENSES OCCASIONAL
				C0154	31.04	0.05	INFERIOR LIGNITE	Clayey, woody textured, firm, friable, good core - unbroken; SIDERITE ABUNDANT
				C0154	31.07	0.03	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				CO154	31.10	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
				CO154	31.31	0.21	LIGNEOUS CLAY and CLAY	Intermixed 70:30. LIGNEOUS CLAY: medium to dark brown, firm, high plasticity (organic), good core - unbroken; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken;
								RARE SIDERITE NODULES
					31.48	0.17	CORE LOSS	
				CO155	31.67	0.19	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken.
				CO155	31.73	0.06	SIDERITE	Sandy, light brown, good core - unbroken, common ligneous wisps;
								MOST LIKELY LENSOIDAL IN ASPECT
				CO155	32.07	0.34	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken;
								SIDERITE REPLACING WOOD
					34.25	2.18	CORE LOSS	
								CHIP TO TOP OF SEAM 3 DUE TO UNCERTAIN
								DEPTH-VARIATION BETWEEN ROTARY AND CORE HOLES
				R	34.71	0.46	NO RECORD	
					34.81	0.10	CORE LOSS	
								WASHED WHILE CLEANING HOLE WITH BARREL
				CO156	34.89	0.08	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0156	34.94	0.05	CLAY	Ligneous, woody textured, medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, gradational base.
				C0156	35.04	0.10	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base, common ligneous wisps.
				C0156	35.07	0.03	CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, common ligneous wisps.
				C0157	35.24	0.17	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation; SMALL SIDERITE INCLUSIONS
				C0157	35.28	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, sharp planar base, common bioturbation.
				C0157	35.42	0.14	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp planar base, beds dip at 05 degrees, common bioturbation.
				C0157	35.50	0.08	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, sharp planar base, beds dip at 10 degrees, common bioturbation.
				C0157	35.52	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp planar base, beds dip at 15 degrees.
				C0157	35.58	0.06	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C0157	35.61	0.03	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken, gradational base.
				C0158	35.77	0.06	CLAY	Ligneous, mottled brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps; Additional features include: good core - unbroken, bioturbation.
				C0158	35.79	0.02	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.
				C0158	35.82	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, sharp planar base, beds dip at 00 degrees.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0158	35.85	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp planar base, beds dip at 00 degrees, common bioturbation.
				C0158	36.45	0.60	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common bioturbation; Additional features include: good core - unbroken, occasional ligneous wisps.
				C0159	36.55	0.10	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, abundant bioturbation.
				C0159	36.62	0.07	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C0159	36.77	0.15	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, sharp planar base, beds dip at 10 degrees, abundant bioturbation.
				C0159	36.81	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, sharp planar base, beds dip at 15 degrees, bioturbation.
				C0159	36.84	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, sharp planar base, beds dip at 10 degrees, abundant bioturbation.
				C0159	36.88	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, sharp planar base, beds dip at 10 degrees.
				C0159	36.98	0.10	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, abundant bioturbation.
				C0159	37.01	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
				C0159	37.03	0.02	CLAY	Light to medium brown - grey, firm, low plasticity (organic), good core - unbroken.
				C0159	37.10	0.07	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, abundant bioturbation.
				C0159	37.12	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0160	37.17	0.05	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C0160	37.32	0.15	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps; Additional features include: good core - unbroken, common bioturbation.
				C0160	37.43	0.11	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant bioturbation; Additional features include: good core - unbroken, common woody fragments.
				C0160	37.55	0.12	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps; Additional features include: good core - unbroken, common bioturbation.
				C0161	37.74	0.21	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments; SIDERITE COMMON. ASSOCIATED WITH AND REPLACING WOODY MATERIAL.
				C0161	37.83	0.07	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments; Additional features include: common bioturbation; SIDERITE OCCURS AS IN OVERLYING UNIT
				C0161	37.91	0.08	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments; SIDERITE OCCURS AS IN OVERLYING UNIT
				C0161	38.05	0.14	INFERIOR LIGNITE and CLAY	Intermixed 50:50. INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken; CLAY: light to medium brown, firm, high plasticity (clay), good core - unbroken.

TOP OF SEAM PC2 38.05

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STRAT NAME	SEQ NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC2		C0162	39.25	0.20	INFERIOR LIGNITE	Woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken, fibrous, occasional bioturbation.
		PC2		C0162	39.32	0.07	LIGNEOUS CLAY and INFERIOR LIGNITE	Intermixed 80:20. LIGNEOUS CLAY: dark brown - black, firm, high plasticity (clay), good core - unbroken; INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken, fibrous.
		PC2		C0162	39.65	0.33	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fibrous; SIDERITE LENSES COMMON
		PC2		C0162	39.67	0.02	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
		PC2		C0162	39.73	0.06	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
		PC2		C0162	39.81	0.08	CLAY	Intermixed 70:30; LOW STRENGTH CLAY INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle, fibrous.
		PC2		C0162	39.01	0.10	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fibrous.
		PC2		C0162	39.16	0.15	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, core broken, fibrous.
		PC2		C0162	39.23	0.07	INFERIOR LIGNITE	Woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken, fibrous.
		PC2		C0163	39.29	0.06	CLAY and INFERIOR LIGNITE	Intermixed 80:20. CLAY: light to medium brown, good core - unbroken; INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken, fibrous.
		PC2		C0163	39.35	0.04	LIGNITE	Clayey, medium to dark brown, firm, slickensides on fracture, friable, common, multi-directional joints, angle of joints 30 degrees, good core - unbroken, abundant woody fragments.

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STRAT NAME	SEQ NO	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC2		CO163	39.43	0.07	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
		PC2		CO163	39.88	0.40	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken; LOOKS LIKE A LOG OF WOOD
		PC2		CO163	39.87	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PC2		CO163	39.94	0.07	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken
		PC2		CO163	40.00	0.06	CLAY	Ligneous, medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken, abundant ligneous wisps; SIDERITE ASSOCIATED WITH LIGNIOUS WISPS COMMON
		PC2		CO163	40.10	0.10	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
					BASE OF SEAM PC2	40.10	2.05	
				CO164	40.16	0.06	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				CO164	40.30	0.14	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				CO164	40.50	0.20	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments; ABUNDANT SIDERITE LENSES
				CO164	40.55	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				CO164	40.58	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common resin aggregates.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0165	40.71	0.13	CLAY and INFERIOR LIGNITE	Intermixed 50:50. CLAY: ligneous, medium to dark brown, firm, slickensides on fracture, low plasticity (organic), sparse, oblique joints, angle of joints 50 degrees, good core - unbroken, abundant resin aggregates; INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken, fibrous.
				C0165	40.97	0.26	CLAY and INFERIOR LIGNITE	Intermixed 80:20. CLAY: light to medium brown, firm, high plasticity (clay), good core - unbroken; INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken, fibrous.
				C0165	41.02	0.05	CLAY	Medium to dark brown, firm, slickensides on fracture, high plasticity (clay), common, oblique joints, subhorizontal joints, good core - unbroken, abundant woody fragments; LOW STRENGTH CLAY
				C0165	41.07	0.05	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
				C0165	41.10	0.03	LIGNEOUS CLAY	Woody textured, dark brown, firm, low plasticity (organic), good core - unbroken.
				C0166	41.22	0.12	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments; LOW STRENGTH CLAY
				C0166	42.24	0.02	CLAY	Light to medium grey, stiff, high plasticity (clay), good core - unbroken, common woody fragments; LOW STRENGTH CLAY
				C0166	42.28	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C0166	42.80	0.52	CLAY	Light to medium grey, stiff, high plasticity (clay), good core - unbroken, common woody fragments.
				C0166	42.85	0.05	CLAY	Light to medium brown, stiff, high plasticity (clay), good core - unbroken, common woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				00165	40.71	0.13	CLAY and INFERIOR LIGNITE	Intermixed 50:50. CLAY: ligneous, medium to dark brown, firm, slickensides on fracture, low plasticity (organic), sparse, oblique joints, angle of joints 50 degrees, good core - unbroken, abundant resin aggregates; INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken, fibrous.
				00165	40.97	0.26	CLAY and INFERIOR LIGNITE	Intermixed 80:20. CLAY: light to medium brown, firm, high plasticity (clay), good core - unbroken; INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken, fibrous.
				00165	41.02	0.05	CLAY	Medium to dark brown, firm, slickensides on fracture, high plasticity (clay), common, oblique joints, subhorizontal joints, good core - unbroken, abundant woody fragments; LOW STRENGTH CLAY
				00165	41.07	0.05	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
				00165	41.10	0.03	LIGNEOUS CLAY	Woody textured, dark brown, firm, low plasticity (organic), good core - unbroken.
				00166	41.22	0.12	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments; LOW STRENGTH CLAY
				00166	42.24	0.02	CLAY	Light to medium grey, stiff, high plasticity (clay), good core - unbroken, common woody fragments; LOW STRENGTH CLAY
				00166	42.28	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				00166	42.30	0.52	CLAY	Light to medium grey, stiff, high plasticity (clay), good core - unbroken, common woody fragments.
				00166	42.85	0.05	CLAY	Light to medium brown, stiff, high plasticity (clay), good core - unbroken, common woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0166	42.99	0.14	CLAY	Light to medium grey, stiff, high plasticity (clay), good core - unbroken, common woody fragments; LOW STRENGTH CLAY
				C0167	43.13	0.14	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, gradational base, beds dip at 20 degrees, abundant woody fragments.
				C0167	43.20	0.07	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, gradational base, beds dip at 20 degrees, common woody fragments.
				C0167	43.36	0.16	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
				C0167	43.53	0.17	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
				C0167	43.56	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, abundant resin aggregates.
				C0167	43.57	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant resin aggregates;
ALL GREY CLAYS ARE BIOTURBATED AND IS DEFINED BY MANGANESE STAINED WISPS CLAYS WITH WOOD FRAGMENTS PRONE TO FAILURE ALONG CONTACTS WITH WOOD FRAGMENTS-SLICKENSIDED -HIT CORE WITH GEDPHICK CAUSES FAILURE								
				C0168	43.63	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C0168	43.72	0.09	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common woody fragments; Additional features include: common resin aggregates.
				C0168	43.81	0.09	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0168	43.85	0.04	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken; LDW STRENGTH CLAY
				C0168	44.04	0.19	CLAY and INFERIOR LIGNITE	Intermixed 60:40. CLAY: light to medium brown, firm, high plasticity (clay), good core - unbroken; INFERIOR LIGNITE: woody textured, clayey, dark brown - black, low strength, brittle, good core - unbroken.
				C0168	44.14	0.10	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, common resin aggregates.
				C0168	44.17	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common woody fragments; Additional features include: good core - unbroken, occasional resin aggregates.
				C0168	44.28	0.11	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, common woody fragments; Additional features include: good core - unbroken, occasional resin aggregates.
				C0168	44.33	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
					TOP OF SEAM PC3	44.33		
		PC3		C0169	44.36	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC3		C0169	44.46	0.10	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, fibrous, occasional resin aggregates.
		PC3		C0169	44.57	0.11	LIGNEOUS CLAY	Woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC3		C0169	44.97	0.40	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, fibrous, common resin aggregates.
		PC3		C0169	45.03	0.06	LIGNEOUS CLAY	Dark black - brown, firm, low plasticity (organic), good core - unbroken, common resin aggregates.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC3		C0169	45.21	0.18	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, fibrous, common resin aggregates.
		PC3		C0169	45.23	0.02	INFERIOR LIGNITE	Dark brown, firm, low plasticity (organic), good core - unbroken, common resin aggregates.
		PC3		C0169	45.31	0.08	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC3		C0169	45.41	0.10	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, fibrous, common resin aggregates.
		PC3		C0169	45.52	0.11	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
		PC3		C0170	45.61	0.09	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, low plasticity (organic), good core - unbroken, common resin aggregates.
		PC3		C0170	45.75	0.14	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, fibrous, common resin aggregates.
		PC3		C0170	45.76	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PC3		C0170	45.95	0.19	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, fibrous.
		PC3		C0170	45.99	0.04	LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		PC3		C0170	46.08	0.09	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		PC3		C0170	46.13	0.05	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC3		C0170	46.17	0.04	LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, occasional resin aggregates.
		PC3		C0170	46.18	0.01	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		PC3		C0170	46.28	0.10	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC3		C0170	46.46	0.18	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC3			46.56	0.10	CORE LOSS	
LITHOLOGIES REFERRED TO AS HIGH ASH LI								
ON GEOPHYS LOG ARE LCWD, LC FOL								
BORDERING ON LC-LICL								
		PC3		C0171	46.60	0.04	LIGNITE	Dark brown - black, firm, coal cleat, friable, common, subvertical joints, vertical joints, sharp planar base.
		PC3		C0171	46.66	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), occasional resin aggregates; Additional features include: good core - unbroken, common ligneous wisps.
		PC3		C0171	46.69	0.03	LIGNEOUS CLAY	Medium to dark black, firm, high plasticity (clay), good core - unbroken.
		PC3		C0171	46.77	0.08	LIGNITE	Clayey, dark brown - black, firm, coal cleat, friable, common, subvertical joints, vertical joints, good core - unbroken.
		PC3		C0171	46.78	0.01	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		PC3		C0171	46.91	0.13	LIGNITE	Clayey, woody textured, dark brown - black, firm, coal cleat, friable, common, subvertical joints, vertical joints, good core - unbroken.
		PC3		C0171	46.94	0.03	CLAY	Light brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
		PC3		C0171	47.02	0.08	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps; Additional features include: good core - unbroken, occasional resin aggregates.
		PC3		C0172	47.07	0.05	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common ligneous wisps.
		PC3		C0172	47.17	0.10	LIGNITE	Clayey, dark brown - black, firm, slickensides on fracture, friable, sparse, oblique joints, angle of joints 40 degrees, good core - unbroken.

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TENEMENT 2060

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC3		C0172	47.21	0.04	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		PC3		C0172	47.41	0.20	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, fibrous, sharp oblique base, beds dip at 20 degrees; LOOKS LIKE LOG OF WOOD WASHED IN
		PC3		C0172	47.51	0.10	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PC3		C0172	47.66	0.15	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, fibrous.
		PC3		C0172	47.67	0.01	LIGNEOUS CLAY	Woody textured, dark brown, firm, high plasticity (clay), good core - unbroken.
		PC3		C0172	47.77	0.10	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, rare resin aggregates.
		PC3		C0172	47.90	0.13	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken, fibrous.
		PC3		C0173	47.98	0.08	CLAY	Light to medium brown, stiff, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
		PC3		C0173	48.01	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, common ligneous wisps.
		PC3		C0173	48.04	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
		PC3		C0173	48.09	0.05	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		PC3		C0173	48.12	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC3		C0173	48.13	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PC3		C0173	48.18	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC3		C0173	48.22	0.04	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PC3		C0173	48.24	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PC3		C0173	48.27	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PC3		C0173	48.33	0.06	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PC3		C0173	48.48	0.15	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC3		C0173	48.54	0.06	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC3		C0173	48.57	0.03	LIGNEOUS CLAY	Dark black - brown, firm, high plasticity (clay), good core - unbroken, gradational base.
		PC3		C0173	48.60	0.03	LIGNEOUS CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.

BASE OF SEAM PC3	48.60	4.27
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C0174	48.73	0.13	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base, occasional ligneous wisps, LOW STRENGTH
C0174	49.01	0.28	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, gradational base, abundant ligneous wisps.
C0174	49.08	0.07	CLAY	Light to medium brown - grey, stiff, high plasticity (clay), good core - unbroken.
C0174	49.18	0.10	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
C0174	49.26	0.08	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
C0174	49.39	0.13	CLAY	Light to medium brown, stiff, high plasticity (clay), good core - unbroken, abundant ligneous wisps.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0174	49.42	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
				C0174	49.49	0.07	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C0174	49.54	0.05	CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, common ligneous wisps.
				C0175	49.66	0.12	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C0175	49.68	0.02	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.
				C0175	49.75	0.07	INFERIOR LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken.
				C0175	49.77	0.02	LIGNEOUS CLAY	Dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0175	49.82	0.05	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0175	49.89	0.07	LIGNEOUS CLAY	Dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0175	49.95	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
					TOP OF SEAM PC4		49.95	
	PC4			C0176	49.97	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
	PC4			C0176	50.04	0.07	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
	PC4			C0176	50.07	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
	PC4			C0176	50.09	0.02	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC4		C0176	50.26	0.17	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, common resin aggregates.
		PC4		C0176	50.27	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PC4		C0176	50.29	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC4		C0176	50.31	0.02	LIGNEOUS CLAY	Dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		PC4		C0176	50.37	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC4		C0176	50.40	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PC4		C0176	50.42	0.02	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC4		C0176	50.44	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PC4		C0176	50.45	0.01	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
		PC4		C0176	50.47	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PC4		C0176	50.56	0.09	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		PC4		C0176	50.66	0.10	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken, common ligneous wisps; SIDERITE NODULES COMMON
		PC4		C0176	50.68	0.02	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		PC4		C0176	50.71	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PC4		C0176	50.75	0.04	INFERIOR LIGNITE	Woody textured, clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					55.20	2.40	CLAY and INFERIOR LIGNITE	Interbedded 60:40. CLAY: light to medium grey - brown, firm, high plasticity (clay); INFERIOR LIGNITE: woody textured, medium to dark black - brown, low strength, brittle, fibrous.
					57.20	2.00	SAND	Clayey, light white, firm, low plasticity (clay), common woody fragments.
					62.00	4.80	CLAY	Light to medium brown - grey, firm, high plasticity (clay), common woody fragments.
					64.60	2.60	SAND	Clayey, light white, soft, non-plastic.
					65.00	0.40	SILT	Clayey, light to medium brown, stiff, high plasticity (silt).
					66.00	1.00	CLAY	Silty, light to medium brown, stiff, high plasticity (clay).
					68.40	2.40	CLAY	Light to medium brown - grey, firm, high plasticity (clay), common woody fragments; SOME SANDY AND SILTY LENSES BANDS
					69.00	0.60	CLAY	Ligneous, light to medium brown, firm, high plasticity (clay), occasional resin aggregates.
					70.60	1.60	INFERIOR LIGNITE	Woody textured, clayey, dark brown - black, firm, low plasticity (organic), fissile; Bands include: CLAY, carbonaceous, light to medium brown, firm, high plasticity (clay), common woody fragments; Additional features include: occasional resin aggregates.
					84.00	13.40	CLAY	Carbonaceous, light to medium brown, firm, high plasticity (clay), common woody fragments; Additional features include: occasional resin aggregates; Bands include: CLAY, ligneous, medium to dark brown, firm, friable; Bands include: CLAY, carbonaceous, medium to dark grey, firm, high plasticity (clay); Bands include: CLAY, silty, ligneous, medium to dark brown, firm, low plasticity (clay), abundant resin aggregates; Bands include: INFERIOR LIGNITE, clayey, dark brown, firm, low plasticity (organic); SAMPLES SUGGEST A HIGHLY BANDED UNIT

END OF BORE AT 84.00 m

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Easting: 495700.000
Northing: 5411200.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 150.00
Datum: Approximate Level - Not Surveyed

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: Deadline Drilling
Geophysical Logging: Century Geophysical Corp.

Sheet Reference:
Sheet Index:
Total Depth: 49.06
Drilling Commenced: 10/04/82
Drilling Completed: 11/04/82
Inclination:
Azimuth:
Standing Water Level:

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 140
Core Diameter: 100
Cased Depths:
Core Barrel: Triefus Triple Barrel

Available Data: Gamma Logs
Neutron Logs
Density Logs
Self Potential Logs
Resistivity Logs
Caliper Logs

Drill Bits: Blades
Tungsten Carbide

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	4.00	4.00	CLAY	Silty, mottled yellow - pink, firm, high plasticity (clay), common iron oxide, secondary, staining; Additional features include: grey, common manganese, secondary, staining.
				R	5.00	1.00	CLAY	Kaolinitic, light white - off white, firm, high plasticity (clay); SOME PRYL MOTTLING
				R	10.00	5.00	CLAY	Light brown - off white, firm, high plasticity (clay).
				R	10.50	0.50	CLAY	Light to medium brown, firm, high plasticity (clay).
				R	11.00	0.50	CLAY	Light to medium grey, firm, high plasticity (clay).
					<u>TOP OF SEAM PBI</u>		<u>11.00</u>	
		PBI		R	11.87	0.87	LIGNEDUS CLAY	Dark brown - black, firm, high plasticity (organic); Bands include: INFERIOR LIGNITE, woody textured, clayey, dark brown - black, firm, low plasticity (organic), fissile.
					<u>BASE OF SEAM PBI</u>		<u>11.87</u>	<u>0.87</u>
				C0179	11.97	0.10	CLAY	Mottled brown, firm, high plasticity (clay), good core - unbroken.
				C0179	12.03	0.06	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0179	12.22	0.19	CLAY	Mottled brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0179	12.28	0.06	CLAY	Mottled brown, firm, high plasticity (clay), good core - unbroken.
				C0179	12.29	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0179	12.32	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0179	12.41	0.09	CLAY	Mottled brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0180	12.47	0.06	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0180	12.55	0.08	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0180	12.57	0.02	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0180	12.64	0.07	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken; Bands include: CLAY, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0180	12.67	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0180	12.78	0.11	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken; occasional ligneous wisps; Bands include: CLAY, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0180	12.87	0.09	CLAY	Light brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
				C0180	12.92	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0180	12.94	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0180	12.98	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0180	13.00	0.02	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0180	13.13	0.13	LIGNEOUS CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional bioturbation; Bands include: CLAY, mottled brown, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				CO180	13.26	0.13	LIGNEOUS CLAY	Silty, medium to dark brown, firm, high plasticity (organic), good core - unbroken, ligneous wisps.
				CO180	13.41	0.15	CLAY and CLAY	Interbedded 50:50. CLAY: light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				CO181	13.47	0.06	LIGNEOUS CLAY and CLAY	Interbedded 80:20. LIGNEOUS CLAY: medium to dark brown, firm, high plasticity (organic), good core - unbroken, sharp planar base, beds dip at 20 degrees; CLAY: light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				CO181	13.55	0.08	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				CO181	13.58	0.03	INFERIOR LIGNITE	Woody textured, peaty, dark brown - black, firm, friable, good core - unbroken.
				CO181	13.73	0.15	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				CO181	13.87	0.14	LIGNEOUS CLAY and CLAY	Interbedded 80:20. LIGNEOUS CLAY: dark brown, firm, high plasticity (organic), good core - unbroken; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				CO181	13.98	0.11	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				CO181	14.04	0.06	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken, gradational base.
				CO181	14.06	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				TOP OF SEAM PB2		14.06		
	PB2			CO182	14.08	0.02	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB2		C0182	14.11	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.12	0.01	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		PB2		C0182	14.14	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB2		C0182	14.16	0.02	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.17	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB2		C0182	14.18	0.01	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.18	0.00	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PB2		C0182	14.21	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB2		C0182	14.23	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.30	0.07	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB2		C0182	14.33	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
		PB2		C0182	14.35	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.36	0.01	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.41	0.05	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.47	0.06	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB2		C0182	14.52	0.05	LIGNEOUS CLAY and CLAY	Interbedded 70:30. LIGNEOUS CLAY: dark brown, firm, high plasticity (clay), good core - unbroken; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.55	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.57	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.58	0.01	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.60	0.02	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.62	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.70	0.08	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB2		C0182	14.71	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.74	0.03	LIGNEOUS CLAY	Dark brown, firm, coal cleat, high plasticity (clay), common, subvertical joints, vertical joints, good core - unbroken, abundant siderite, secondary, in cleat.
		PB2		C0182	14.83	0.09	CLAY	Ligneous, medium to dark brown - grey, firm, coal cleat, low plasticity (organic), common, subvertical joints, vertical joints, good core - unbroken, abundant siderite, secondary, in cleat.
		PB2		C0182	14.93	0.10	LIGNEOUS CLAY	Dark brown, firm, coal cleat, low plasticity (organic), common, subvertical joints, vertical joints, good core - unbroken, abundant siderite, secondary, in cleat.
								ABRGY CLAY LENSES COMMON
		PB2		C0182	15.00	0.07	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB2		C0182	15.04	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base.
		PB2		C0182	15.13	0.09	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
		PB2		C0182	15.15	0.02	LIGNITE	Woody textured, clayey, dark brown - black, firm, coal cleat, friable, common, subvertical joints, vertical joints, good core - unbroken, fissile, common siderite, secondary, in cleat.
		PB2		C0182	15.17	0.02	LIGNITE	Dark brown - black, firm, coal cleat, friable, common, subvertical joints, vertical joints, good core - unbroken, common siderite, secondary, in cleat.
		PB2		C0182	15.22	0.05	LIGNEOUS CLAY	Dark brown, firm, coal cleat, low plasticity (organic), common, subvertical joints, vertical joints, good core - unbroken, common siderite, secondary, in cleat.
		PB2		C0182	15.26	0.04	LIGNITE	Clayey, dark brown - black, firm, coal cleat, friable, common, subvertical joints, vertical joints, good core - unbroken, sharp oblique base, beds dip at 15 degrees, common siderite, secondary, in cleat.
		PB2		C0182	15.31	0.05	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
					BASE OF SEAM PB2	15.31	1.25	
				C0182	15.33	0.02	CLAY	Medium to dark brown - grey, slightly weathered, firm, high plasticity (clay), common, subvertical joints, vertical joints, good core - unbroken, gradational base.
				C0182	15.35	0.02	CLAY	Light to medium brown - grey, slightly weathered, firm, high plasticity (clay), common, subvertical joints, vertical joints, good core - unbroken.
				C0182	15.38	0.03	CLAY	Medium to dark brown, slightly weathered, firm, high plasticity (clay), common, subvertical joints, vertical joints, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0182	15.39	0.01	CLAY	Light to medium brown - grey, slightly weathered, firm, high plasticity (clay), common, subvertical joints, vertical joints, good core - unbroken, sharp planar base, beds dip at 05 degrees.
				C0182	15.44	0.05	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, subfissile, sharp oblique base, beds dip at 20 degrees.
				C0183	15.48	0.04	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0183	15.62	0.14	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0183	15.66	0.04	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				C0183	15.70	0.04	INFERRIG LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
				C0183	15.76	0.06	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C0183	15.85	0.09	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 10 degrees.
				C0183	15.90	0.05	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 08 degrees.
				C0183	15.94	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, sharp irregular base, beds dip at 00 degrees.
				C0183	16.08	0.14	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.
				C0183	16.14	0.06	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0183	16.17	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0183	16.18	0.01	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0183	16.19	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0183	16.20	0.01	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0183	16.32	0.12	CLAY and CLAY	Interbedded 80:20. CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common bioturbation; CLAY: light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0183	16.35	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
				C0183	16.48	0.13	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, abundant bioturbation.
				C0183	16.52	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
					16.66	0.14	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation;
DRAPE STRUCTURE AROUND PLANT ROOT								
					TOP OF SEAM PB3		16.66	
		PB3		C0184	16.72	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.74	0.02	CLAY	Ligneous, dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.79	0.05	INFERIOR LIGNITE and CLAY	Interbedded 90:10. INFERIOR LIGNITE: clayey, dark brown, firm, low plasticity (organic), good core - unbroken; CLAY: light to medium green - brown, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB3		C0184	16.81	0.02	CLAY	Light to medium brown - green, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
		PB3		C0184	16.83	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.86	0.03	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0184	16.91	0.05	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.94	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.98	0.04	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken.
		PB3		C0184	17.00	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	17.02	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB3		C0184	17.05	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0184	17.09	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0184	17.13	0.04	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.
		PB3		C0186	17.16	0.03	LIGNEOUS CLAY	Woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.20	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
		PB3		C0186	17.25	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.28	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.31	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WGRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB3		C0184	16.81	0.02	CLAY	Light to medium brown - green, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
		PB3		C0184	16.83	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.86	0.03	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0184	16.91	0.05	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.94	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.98	0.04	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken.
		PB3		C0184	17.00	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	17.02	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB3		C0184	17.05	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0184	17.09	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0184	17.13	0.04	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.
		PB3		C0186	17.16	0.03	LIGNEOUS CLAY	Woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.20	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
		PB3		C0186	17.25	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.28	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.31	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB3		C0186	17.42	0.11	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.
		PB3		C0186	17.44	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.49	0.05	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.
		PB3		C0186	17.52	0.03	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.56	0.04	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.62	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.63	0.01	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.68	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0186	17.71	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0187	17.87	0.16	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, occasional resin aggregates.
		PB3		C0187	18.29	0.42	LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, occasional resin aggregates.
		PB3		C0187	18.38	0.09	LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		PB3		C0188	18.49	0.11	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant ligneous wisps.
		PB3		C0188	18.52	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		PB3		C0188	18.74	0.22	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB3		C0188	18.77	0.03	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		PB3		C0188	18.87	0.10	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		PB3		C0189	19.01	0.14	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		PB3		C0189	19.05	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0189	19.22	0.17	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		PB3		C0189	19.23	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0189	19.26	0.03	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB3		C0189	19.30	0.04	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		PB3		C0189	19.34	0.04	CLAY and LIGNITE	Interbedded 50:50. CLAY: medium to dark brown, firm, high plasticity (clay), good core - unbroken; LIGNITE: woody textured, clayey, dark brown, firm, friable, good core - unbroken.
		PB3		C0189	19.41	0.07	LIGNEOUS CLAY	Dark brown, stiff, high plasticity (clay), good core - unbroken.
		PB3		C0189	19.45	0.04	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0189	19.56	0.11	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant ligneous wisps.
		PB3		C0189	19.61	0.05	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, subfissile.
		PB3		C0190	19.97	0.36	CORE LOSS	
		PB3		C0190	20.04	0.07	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB3		C0190	20.07	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0190	20.14	0.07	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0190	20.19	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0190	20.24	0.05	LIGNEOUS CLAY	Woody textured, dark brown, firm, low plasticity (organic), good core - unbroken, occasional resin aggregates.
		PB3		C0190	20.28	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
		PB3		C0190	20.35	0.07	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, occasional ligneous wisps.
		PB3		C0190	20.44	0.09	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		PB3		C0190	20.49	0.05	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
		PB3		C0190	20.60	0.11	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
		PB3		C0190	20.66	0.06	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0190	20.70	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
							LOOKS LIKE A ROOT ZONE	
		PB3		C0190	20.76	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base, abundant woody fragments.
							BASE OF SEAM PB3	20.76 4.10

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0191	20.95	0.19	LIGNEOUS CLAY and INFERIOR LIGNITE	Intermixed 50:50. LIGNEOUS CLAY: dark brown, firm, low plasticity (organic), good core - unbroken; INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken.
				C0191	21.07	0.12	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken; ROOTS COMMON
				C0191	21.34	0.27	INFERIOR LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken; LOOKS LIKE LOG OF WOOD OR TREE ROOT
				C0191	21.38	0.04	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C0191	21.47	0.09	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
				C0191	21.56	0.09	CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, common woody fragments; Additional features include: good core - unbroken, occasional resin aggregates.
					----- TOP OF SEAM PB4 -----		21.56	
		PB4		C0192	21.67	0.11	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, occasional resin aggregates.
		PB4		C0192	21.75	0.08	INFERIOR LIGNITE	Clayey, woody textured, dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		PB4		C0192	21.77	0.02	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
		PB4		C0192	21.94	0.17	LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken.
		PB4		C0192	22.00	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, common woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB4		C0192	22.06	0.06	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		PB4		C0192	22.10	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB4		C0192	22.14	0.04	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PB4		C0193	22.17	0.03	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken, fibrous.
		PB4		C0193	22.19	0.02	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB4		C0193	22.71	0.52	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, occasional resin aggregates.
		PB4		C0193	22.72	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB4		C0193	23.05	0.33	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		PB4		C0193	23.07	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB4		C0193	23.38	0.31	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PB4		C0194	23.46	0.08	LIGNEOUS CLAY	Woody textured, dark brown, firm, low plasticity (organic), good core - unbroken, fibrous.
		PB4		C0194	23.49	0.03	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		PB4		C0194	23.56	0.07	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PB4		C0194	23.59	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common woody fragments;
							MARCASITE NODULES ABUNDANT	

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB4		C0194	23.89	0.30	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, fibrous.
		PB4		C0194	23.92	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB4		C0194	23.99	0.07	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB4		C0194	24.03	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.

BASE OF SEAM PB4					24.03	2.47		

					24.14	0.11	CORE LOSS	
				C0195	24.18	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.22	0.04	CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.24	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0195	24.32	0.08	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C0195	24.35	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.38	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.39	0.01	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0195	24.41	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C0195	24.42	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.46	0.04	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0195	24.54	0.08	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0195	24.60	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.68	0.08	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.74	0.06	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0195	24.80	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0195	24.83	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.87	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0195	24.91	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, sharp irregular base.
				C0196	25.05	0.14	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C0196	25.16	0.11	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, occasional ligneous fragments.
				C0196	25.25	0.09	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				C0196	25.30	0.05	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				C0196	25.35	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				C0196	25.36	0.01	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0196	25.41	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0196	25.45	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant bioturbation.
				C0196	25.47	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
				C0196	25.52	0.05	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.
				C0196	25.56	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps; Additional features include: good core - unbroken, abundant bioturbation.
				C0197	25.73	0.17	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0197	25.79	0.06	CLAY	Interbedded 90:10; Bands include: *** ERROR TRANSLATING LEGEND FOR THIS DATA ***
				C0197	25.81	0.02	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0197	25.85	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0197	25.89	0.04	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0197	26.12	0.23	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C0197	26.19	0.07	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
				C0197	26.26	0.07	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken.
				C0197	26.73	0.47	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
				C0197	26.74	0.01	CLAY	Light to medium brown - grey, good core - unbroken, abundant woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0197	26.74	0.00	CLAY	Light to medium brown - grey, good core - unbroken, abundant woody fragments; SIDERITE NODULES ABUNDANT, REPLACING WOOD
				C0197	26.77	0.03	LIGNEDUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				C0197	26.78	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0197	26.81	0.03	CLAY and CLAY	Interbedded 80:20. CLAY: medium to dark brown, firm, high plasticity (clay), good core - unbroken; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0197	26.87	0.06	LIGNEDUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0197	26.88	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		R		29.00	2.12	NO RECORD		
		R		30.50	1.50	CLAY and CLAY	Interbedded 50:50. CLAY: light to medium brown - grey, firm, high plasticity (clay), common woody fragments; CLAY: silty, medium to dark brown - grey.	
				TOP OF SEAM PC1	30.50			
		PC1	R	32.00	1.50	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay); Bands include: LIGNEDUS CLAY, dark brown - black, firm, low plasticity (organic).	
		PC1	R	33.50	1.50	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), occasional woody fragments.	
				BASE OF SEAM PC1	33.50	3.00		

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	34.00	0.50	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay); Bands include: CLAY, light to medium brown - grey, firm, high plasticity (clay).
				R	36.00	2.00	CLAY and LIGNEOUS CLAY	Interbedded 60:40. CLAY: light to medium brown - grey, firm, high plasticity (clay); LIGNEOUS CLAY: dark brown, firm, low plasticity (organic).
				R	36.93	0.93	CLAY	Light to medium brown, very soft, low plasticity (organic); Bands include: LIGNEOUS CLAY, dark brown, firm, low plasticity (organic).
				R	37.09	0.16	NO RECORD	
				C0198	37.30	0.21	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0198	37.57	0.27	CLAY	Light to medium brown - grey, firm, slickensides on fracture, high plasticity (clay), sparse, subhorizontal joints, oblique joints, good core - unbroken, occasional resin aggregates;
ROOTS IN GROWTH POSITION								
SIDERITE REPLACEMENT OF WOOD								
				C0198	37.61	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, sharp irregular base, occasional resin aggregates.
				C0198	37.63	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
					TOP OF SEAM PC2		37.63	
		PC2		C0198	37.68	0.05	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC2		C0198	37.69	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, occasional bioturbation.
		PC2		C0198	37.78	0.09	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common woody fragments; Additional features include: good core - unbroken, common resin aggregates.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC2		C0198	37.82	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments; Additional features include: good core - unbroken, occasional resin aggregates.
		PC2		C0198	37.86	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps; Additional features include: good core - unbroken, rare resin aggregates.
		PC2		C0199	37.90	0.04	LIGNEOUS CLAY	Dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		PC2		C0199	38.29	0.39	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fibrous.
SIDERITE LENSES IN WOODY TEXTURE ZONE								
		PC2		C0200	38.34	0.05	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		PC2		C0200	38.39	0.05	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PC2		C0200	38.44	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
		PC2		C0200	38.48	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
		PC2		C0200	38.55	0.07	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
		PC2		C0201	38.60	0.05	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
		PC2		C0201	38.62	0.02	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, low plasticity (organic), good core - unbroken.
		PC2		C0201	38.64	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PC2		C0201	38.69	0.05	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC2		C0201	38.71	0.02	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
		PC2		C0201	38.79	0.08	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, fibrous, occasional resin aggregates.
		PC2		C0201	38.85	0.06	LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken.
		PC2		C0201	38.87	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
		PC2		C0201	38.92	0.05	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, abundant marcasite, secondary, nodules.
		PC2		C0201	39.04	0.14	LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, abundant resin aggregates; Additional features include: peaty.
		PC2		C0201	39.17	0.11	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments;
							SIDERITE REPLACING WOOD	
		PC2		C0201	39.23	0.06	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PC2		C0201	39.27	0.04	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
		PC2		C0201	39.30	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
		PC2		C0201	39.65	0.35	LIGNITE	Woody textured, clayey, dark brown, firm, friable, good core - unbroken; Additional features include: peaty, good core - unbroken.
							BASE OF SEAM PC2	
					39.65	2.02		
				C0202	39.76	0.11	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.

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STRAT NAME	SEQ. NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0202	39.83	0.07	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant woody fragments; Additional features include: good core - unbroken, occasional resin aggregates.
				C0202	39.87	0.04	CLAY	Ligneous, medium to dark brown, firm, low plasticity (organic), good core - unbroken, subfissile, abundant woody fragments; Additional features include: good core - unbroken, occasional resin aggregates.
				C0202	39.98	0.11	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
				C0202	40.04	0.06	CLAY	Medium to dark grey - brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
				C0202	40.11	0.07	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
				C0202	40.12	0.01	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
				C0203	40.15	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0203	40.21	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, occasional resin aggregates.
				C0203	40.24	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0203	40.35	0.11	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, common resin aggregates.
				C0203	40.41	0.06	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), abundant woody fragments.
				C0203	40.61	0.20	CLAY	Medium to dark brown, firm, high plasticity (clay), abundant woody fragments; Additional features include: occasional resin aggregates.
				C0203	40.65	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), abundant woody fragments.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0203	40.68	0.03	CLAY	Light to medium grey - brown, firm, high plasticity (clay), abundant woody fragments.
				C0203	40.79	0.11	INFERIOR LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, fibrous.
				C0203	40.88	0.09	CLAY and INFERIOR LIGNITE	Intermixed 30:70. CLAY: medium to dark brown, firm, high plasticity (clay); INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle.
				C0204	40.94	0.06	CLAY	Light to medium brown, stiff, high plasticity (clay), common woody fragments.
				C0204	41.14	0.20	CLAY and INFERIOR LIGNITE	Intermixed 80:20. CLAY: light to medium grey, stiff, low plasticity (organic); INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle.
				C0204	41.21	0.07	CLAY and INFERIOR LIGNITE	Intermixed 80:20. CLAY: medium to dark brown - grey, firm, low plasticity (organic); INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle.
				C0204	41.43	0.22	CLAY	Light to medium grey, stiff, low plasticity (organic).
				C0204	41.54	0.11	CLAY	Light to medium brown - grey, firm, high plasticity (clay), common resin aggregates.
				C0204	41.59	0.05	CLAY and INFERIOR LIGNITE	Intermixed 80:20. CLAY: medium to dark brown, firm, low plasticity (organic), common resin aggregates; INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle.
				C0204	41.87	0.28	CLAY	Light to medium brown - grey, firm, high plasticity (clay), common woody fragments.
				C0204	41.91	0.04	CLAY	Light to medium grey - brown, firm, high plasticity (clay), common woody fragments.
				C0204	42.07	0.16	CLAY and INFERIOR LIGNITE	Intermixed 80:20. CLAY: ligneous, medium to dark brown, firm, low plasticity (organic), good core - unbroken; INFERIOR LIGNITE: woody textured, peaty, dark brown - black, stiff, brittle, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0204	42.12	0.05	CLAY	Light to medium grey - buff, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C0204	42.16	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C0204	42.22	0.06	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0204	42.34	0.12	CLAY	Light to medium brown, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
				C0204	42.36	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0205	42.51	0.15	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0205	42.64	0.13	INFERIOR LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken; Additional features include: peaty, good core - unbroken.
				C0205	42.67	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, abundant resin aggregates.
				C0205	42.73	0.06	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
				C0205	42.80	0.07	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0205	42.83	0.03	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0205	42.84	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0205	42.91	0.07	INFERIOR LIGNITE	Woody textured, clayey, dark brown - grey, firm, friable, good core - unbroken, abundant resin aggregates; Additional features include: peaty, good core - unbroken.
				C0205	42.94	0.03	CLAY	Ligneous, medium to dark brown, firm, low plasticity (organic), good core - unbroken.
				C0205	42.95	0.01	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					43.00	0.05	CORE LGSS	

					TOP OF SEAM PC3	43.00	-----	
		PC3		C0206	43.02	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC3		C0206	43.04	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PC3		C0206	43.06	0.02	CLAY	Silty, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
		PC3		C0206	43.09	0.03	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PC3		C0206	43.18	0.09	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		PC3		C0206	43.19	0.01	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PC3		C0206	43.20	0.01	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, fibrous.
		PC3		C0206	43.25	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
		PC3		C0206	43.35	0.10	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, subfissile.
		PC3		C0206	43.38	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PC3		C0206	43.40	0.02	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC3		C0206	43.42	0.02	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		PC3		C0206	43.45	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC3		C0206	43.48	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC3		C0206	43.49	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PC3		C0206	43.50	0.01	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC3		C0206	43.52	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken; Bands include: CLAY, light to medium brown, firm, high plasticity (clay), good core - unbroken.
		PC3		C0206	43.54	0.02	INFERIOR LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken.
		PC3		C0206	43.56	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PC3		C0206	43.62	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic).
		PC3		C0206	43.63	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic).
		PC3		C0206	43.65	0.02	LIGNEOUS CLAY	Dark brown - grey, firm, high plasticity (clay).
		PC3		C0206	43.72	0.07	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay).
		PC3		C0206	44.02	0.30	INFERIOR LIGNITE	Woody textured, clayey, dark brown, firm, friable, fibrous; Additional features include: peaty.
		PC3		C0206	44.05	0.03	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, low plasticity (organic).
		BASE OF SEAM PC3			44.05	1.05		
				C0207	44.07	0.02	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), common woody fragments.
				C0207	44.11	0.04	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, low plasticity (organic).
				C0207	44.13	0.02	CLAY	Light to medium brown, firm, high plasticity (clay), common woody fragments.

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0207	44.20	0.07	CLAY	Ligneous, medium to dark brown, firm, low plasticity (organic), occasional resin aggregates; Additional features include: abundant woody fragments.
				C0207	44.26	0.06	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, fibrous, abundant woody fragments.
				C0207	44.42	0.16	CLAY	Ligneous, dark brown, firm, low plasticity (organic), abundant woody fragments; Additional features include: common resin aggregates; Bands include: CLAY, light to medium brown - grey, firm, high plasticity (clay).
				C0207	44.49	0.07	CLAY	Medium to dark brown, firm, high plasticity (clay).
				C0207	44.51	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay).
				C0207	44.62	0.11	CLAY	Light to medium brown, firm, high plasticity (clay), occasional woody fragments.
				C0207	44.69	0.07	CLAY	Medium to dark brown, firm, low plasticity (organic).
				C0207	44.74	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0207	44.78	0.04	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0208	44.86	0.08	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C0208	44.94	0.08	CLAY	Ligneous, dark brown - grey, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
				C0208	45.31	0.37	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
				C0208	45.33	0.02	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
				C0208	45.35	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0208	45.41	0.06	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0208	45.50	0.09	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments; Additional features include: occasional resin aggregates.
				C0208	45.57	0.07	LIGNEOUS CLAY and INFERIOR LIGNITE	Intermixed 50:50. LIGNEOUS CLAY: dark brown - black, firm, high plasticity (clay), good core - unbroken; INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken, occasional resin aggregates.
				C0208	45.77	0.20	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken; LOOKS LIKE LOGS OF WOOD
				C0208	45.92	0.15	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0208	45.97	0.05	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
				C0208	46.00	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C0208	46.04	0.04	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
				C0209	46.13	0.09	INFERIOR LIGNITE and LIGNEOUS CLAY	Intermixed 80:20. INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken; LIGNEOUS CLAY: dark brown, firm, low plasticity (organic), good core - unbroken.
				C0209	46.20	0.07	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
				C0209	46.24	0.04	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C0209	46.38	0.14	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, fibrous; Additional features include: peaty, good core - unbroken.
				C0209	46.43	0.05	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, sharp oblique base, beds dip at 20 degrees.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0209	46.51	0.08	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0209	46.54	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C0209	46.63	0.09	LIGNEOUS CLAY and CLAY	Interbedded 70:30. LIGNEOUS CLAY: medium to dark brown, firm, low plasticity (organic), good core - unbroken; CLAY: light to medium brown, firm, high plasticity (clay), good core - unbroken.

TOP OF SEAM PC4 46.63

	PC4			C0210	46.67	0.04	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
	PC4			C0210	46.70	0.03	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fibrous, abundant resin aggregates.
	PC4			C0210	46.73	0.03	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
	PC4			C0210	46.76	0.03	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
	PC4			C0210	46.84	0.08	LIGNITE	Clayey, woody textured, dark brown - grey, firm, friable, good core - unbroken, fibrous.
	PC4			C0210	46.92	0.08	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
	PC4			C0210	46.96	0.04	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, low plasticity (organic), good core - unbroken.
	PC4			C0210	47.02	0.06	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, occasional resin aggregates.
	PC4			C0210	47.13	0.11	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken.
	PC4			C0210	47.14	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, subfissile.
	PC4			C0210	47.16	0.02	INFERIOR LIGNITE	Woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA	
		PC4		C0210	47.22	0.06	LIGNITE	Woody textured, dark brown - black, firm, friable, occasional resin aggregates.	
		PC4		C0210	47.25	0.03	LIGNITE	Woody textured, dark brown - grey, firm, friable, subfissile, sharp oblique base, beds dip at 15 degrees.	
		PC4		C0210	47.29	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay).	
		PC4		C0210	47.36	0.07	LIGNEDUS CLAY	Medium to dark brown, firm, high plasticity (clay).	
		PC4		C0210	47.38	0.02	INFERIOR LIGNITE	Woody textured, peaty, dark brown, low strength, brittle.	
		PC4		C0210	47.41	0.03	LIGNITE	Woody textured, dark brown - yellow, firm, friable.	
		PC4		C0210	47.52	0.11	INFERIOR LIGNITE and INFERIOR LIGNITE	Intermixed 60:40. INFERIOR LIGNITE: clayey, dark brown, firm, low plasticity (organic); INFERIOR LIGNITE: woody textured, peaty, dark brown, low strength, brittle.	
SOME SIDERITE REPLACEMENT OF WOOD									
		PC4		C0210	47.53	0.01	LIGNEDUS CLAY	Dark black - brown, firm, low plasticity (organic), fibrous, abundant resin aggregates.	
WOODY MATERIAL VERY FIBROUS									
		PC4		C0210	47.67	0.14	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), common woody fragments.	
		PC4		C0210	47.71	0.04	CLAY	Silty, dark brown, firm, low plasticity (organic), abundant woody fragments.	
		PC4		C0210	47.75	0.04	LIGNITE	Clayey, dark brown - black, firm, friable.	
		PC4		C0210	47.78	0.03	INFERIOR LIGNITE	Woody textured, peaty, dark brown, low strength, brittle, fibrous.	
		PC4		C0210	47.80	0.02	INFERIOR LIGNITE	Dark brown - black, firm, high plasticity (clay).	
					BASE OF SEAM PC4		47.80	1.17	
				C0211	47.87	0.07	CLAY	Light to medium grey - brown, firm, high plasticity (clay).	

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0211	48.09	0.22	CLAY	Light to medium grey, firm, high plasticity (clay), abundant ligneous wisps.
				C0211	48.41	0.32	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), abundant woody fragments; Additional features include: occasional resin aggregates.
				C0211	48.73	0.32	CLAY	Light to medium grey - brown, firm, slickensides on fracture, high plasticity (clay), common, multi-directional joints, angle of joints 50 degrees, common woody fragments; Additional features include: slickensides on fracture, common, multi-directional joints, angle of joints 70 degrees.

END OF BORE AT 48.73 m

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Easting: 488160.000
Northing: 5410000.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Cr1: 150.00

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLIS
Drilling Contractor: Deadline Drilling
Geophysical Logging: Century Geophysical Corp.

Datum: Approximate Level - Not Surveyed

Sheet Reference:

County:

Sheet Index:

Parish:

Total Depth: 27.00

Portion:

Drilling Commenced: 19/04/82

Drilling Completed: / /

Inclination:

Plug Depths:

Azimuth:

Hole Diameter: 120

Standing Water Level:

Core Diameter:

Cased Depths:

Core Barrel:

Available Data: Gamma Logs

Neutron Logs

Density Logs

Self Potential Logs

Resistivity Logs

Caliper Logs

Drill Bits: Blades
Tungsten Carbide

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	0.30	0.30	SOIL	Clayey, silty, medium to dark brown, medium dense, non-plastic.
				R	0.70	0.40	CLAY	Medium to dark grey, firm, high plasticity (clay), occasional iron oxide, secondary, staining.
				R	1.50	0.80	CLAY	Medium to dark brown - yellow, firm, high plasticity (clay).
				R	2.15	0.65	CLAY	Silty, sandy, medium to dark brown - yellow, soft, low plasticity (organic), common iron oxide, secondary, staining; Additional features include: gravelly, red.
				R	2.81	0.66	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable.
				C0269	2.83	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C0269	2.87	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
				C0269	2.88	0.01	CLAY	Mottled brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0269	3.06	0.18	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C0269	3.09	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
				C0269	3.22	0.13	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, occasional bioturbation.
				C0269	3.44	0.22	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C0269	3.46	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
				C0269	3.48	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				C0269	3.52	0.04	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0269	3.55	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0269	3.65	0.10	INFERIOR LIGNITE	Clayey, dark brown - buff, firm, friable, good core - unbroken, common bioturbation.
				C0270	3.75	0.10	LIGNEOUS CLAY and CLAY	Interbedded 90:10. LIGNEOUS CLAY: dark brown, firm, high plasticity (clay), good core - unbroken; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0270	3.78	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0270	3.79	0.01	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, fibrous.
				C0270	3.83	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
				C0270	3.87	0.04	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0270	3.91	0.04	CLAY	Ligneous, silty, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0270	4.07	0.16	CLAY	Silty, light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0270	4.47	0.40	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				TOP OF SEAM SA1		4.47		
		SA1		C0271	4.50	0.03	CLAY	Silty, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		SA1		C0271	4.61	0.11	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		SA1		C0271	4.82	0.21	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		SA1		C0271	5.00	0.18	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		SA1		C0271	5.11	0.11	LIGNITE	Clayey, silty, dark brown, firm, friable, good core - unbroken, common resin aggregates.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SA1		C0271	5.13	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		SA1		C0271	5.39	0.26	LIGNITE	Dark brown - black, firm, friable, good core - unbroken.
		SA1		C0272	6.63	1.24	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, gradational base, occasional bioturbation.
		SA1		C0272	6.81	0.18	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.

				BASE OF SEAM SA1	6.81	2.34		

				C0273	6.85	0.04	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0273	6.87	0.02	LIGNEDUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0273	6.89	0.02	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0273	6.92	0.03	LIGNEDUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
				C0273	6.95	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0273	7.05	0.10	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, abundant bioturbation.
				C0274	7.08	0.03	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0274	7.43	0.35	CLAY	Silty, light to medium grey, firm, high plasticity (clay), good core - unbroken.
				C0274	7.47	0.04	CLAY	Sandy, light to medium grey, firm, high plasticity (clay), good core - unbroken, fine and medium grained.
				C0274	7.51	0.04	CLAY	Sandy, light to medium brown, firm, high plasticity (clay), good core - unbroken, fine and medium grained, abundant bioturbation.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0274	8.09	0.58	CLAY	Sandy, light to medium grey, firm, high plasticity (clay), good core - unbroken, fine and medium grained; Bands include: CLAY, sandy, light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C0274	8.13	0.04	CLAY	Sandy, light to medium brown, firm, high plasticity (clay), good core - unbroken, fine and medium grained.
				C0274	8.15	0.02	CLAY	Silty, sandy, light to medium grey, firm, high plasticity (clay), good core - unbroken, fine grained.
				C0274	8.22	0.07	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.
				C0274	8.41	0.19	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
					TOP OF SEAM SA2		8.41	
		SA2		C0275	8.51	0.10	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		SA2		C0275	8.54	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
		SA2		C0275	8.56	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
		SA2		C0275	8.58	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, common bioturbation.
		SA2		C0275	8.59	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
		SA2		C0275	8.64	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
		SA2		C0275	8.68	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
		SA2		C0275	8.71	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SA2		C0275	8.80	0.09	LIGNEOUS CLAY	Dark brown, firm, friable, good core - unbroken, occasional bioturbation.
		SA2		C0275	8.85	0.05	LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		SA2		C0275	9.14	0.29	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		SA2		C0275	9.26	0.12	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		SA2		C0275	9.30	0.04	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, rare bioturbation.
		SA2		C0275	9.36	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		SA2		C0275	9.41	0.05	INFERIOR LIGNITE	Clayey, dark brown - grey, firm, low plasticity (organic), good core - unbroken, rare bioturbation.
		SA2		C0275	9.82	0.41	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, occasional bioturbation.
		SA2		C0276	9.84	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		SA2		C0276	9.94	0.10	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
		SA2		C0276	10.08	0.14	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
		SA2		C0276	10.14	0.06	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.
		SA2		C0276	10.20	0.06	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, common bioturbation; Additional features include: good core - unbroken, occasional ligneous wisps.
		SA2		C0276	10.30	0.10	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, occasional bioturbation.

BASE OF SEAM SA2	10.30	1.89
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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0277	10.54	0.24	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
				C0277	10.73	0.19	CLAY	Light to medium grey - brown, firm, slickensides on fracture, low plasticity (clay), sparse, oblique joints, angle of joints 50 degrees, good core - unbroken, rare ligneous wisps; ALL BIOTURBATION IN THIS RUN INFILLED BY CLAYEY SAND IS FINE TO MEDIUM GRAINED
				C0277	10.93	0.20	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.
				C0277	11.29	0.36	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0277	11.42	0.13	CLAY	Silty, sandy, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C0277	11.47	0.05	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0277	11.52	0.05	CLAY	Silty, light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C0277	11.55	0.03	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0277	11.58	0.03	CLAY	Silty, light to medium brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0277	11.63	0.05	CLAY and CLAY	Interbedded 50:50. CLAY: silty, light to medium brown, firm, high plasticity (clay), good core - unbroken; CLAY: sandy, silty, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, fine grained.
				C0277	11.72	0.09	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken; Bands include: CLAY, silty, sandy, light to medium grey, firm, high plasticity (clay), good core - unbroken, fine grained.
				C0277	11.77	0.05	CLAY	Silty, light to medium grey, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0277	10.54	0.24	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
				C0277	10.73	0.19	CLAY	Light to medium grey - brown, firm, slickensides on fracture, low plasticity (clay), sparse, oblique joints, angle of joints 50 degrees, good core - unbroken, rare ligneous wisps; ALL BIOTURBATION IN THIS RUN INFILLED BY CLAYEY SAND IS FINE TO MEDIUM GRAINED
				C0277	10.93	0.20	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.
				C0277	11.29	0.36	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0277	11.42	0.13	CLAY	Silty, sandy, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C0277	11.47	0.05	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0277	11.52	0.05	CLAY	Silty, light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				C0277	11.55	0.03	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0277	11.58	0.03	CLAY	Silty, light to medium brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0277	11.63	0.05	CLAY and CLAY	Interbedded 50:50. CLAY: silty, light to medium brown, firm, high plasticity (clay), good core - unbroken; CLAY: sandy, silty, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, fine grained.
				C0277	11.72	0.09	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken; Bands include: CLAY, silty, sandy, light to medium grey, firm, high plasticity (clay), good core - unbroken, fine grained.
				C0277	11.77	0.05	CLAY	Silty, light to medium grey, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0277	11.92	0.15	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0277	12.01	0.09	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.
				C0277	12.03	0.02	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
					TOP OF SEAM SB1		12.03	
SB1				C0278	12.14	0.11	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
SB1				C0278	12.17	0.03	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
SB1				C0278	12.25	0.08	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
SB1				C0278	12.32	0.07	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
SB1				C0278	12.38	0.06	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.
SB1				C0278	12.43	0.05	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
SB1				C0278	12.54	0.11	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
SB1				C0278	12.58	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
					BASE OF SEAM SB1		12.58	0.55
				C0279	13.19	0.61	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken, gradational base, occasional ligneous wisps; Additional features include: good core - unbroken, abundant bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0279	13.65	0.46	CLAY	Silty, light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
					13.67	0.02	CORE LOSS	

					TOP OF SEAM SB2	13.67		

		SB2		C0280	13.69	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, subfissile.
		SB2		C0280	13.71	0.02	CLAY	Light to medium grey - brown, stiff, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		SB2		C0280	13.76	0.05	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		SB2		C0280	13.82	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		SB2		C0280	13.96	0.14	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
		SB2		C0280	14.11	0.15	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
							50% CLAY CLASTS	
		SB2		C0280	14.19	0.08	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		SB2		C0281	14.34	0.15	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
		SB2		C0281	14.45	0.11	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		SB2		C0281	14.46	0.01	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		SB2		C0281	14.60	0.14	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		SB2		C0281	14.63	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SB2		C0281	14.75	0.12	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		SB2		C0281	14.79	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		SB2		C0281	14.83	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		SB2		C0281	14.86	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		SB2		C0281	14.89	0.03	CLAY	Ligneous, dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		SB2		C0281	14.96	0.07	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		SB2		C0281	14.99	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		SB2		C0281	15.02	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		SB2		C0281	15.13	0.11	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		SB2		C0281	15.15	0.02	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		SB2		C0281	15.20	0.05	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		SB2		C0281	15.29	0.09	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		SB2		C0281	15.34	0.05	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation.
		SB2		C0281	15.37	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		SB2		C0281	15.42	0.05	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, common bioturbation; Additional features include: good core - unbroken, occasional ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0283	16.73	0.17	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.

				TOP OF SEAM SB3		16.73		
		SB3		C0284	17.25	0.52	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
		SB3		C0284	17.27	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		SB3		C0284	17.47	0.20	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, rare bioturbation.
		SB3		C0284	17.52	0.05	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		SB3		C0284	17.68	0.16	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
		SB3		C0284	17.72	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		SB3		C0284	17.95	0.23	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		SB3		C0284	17.99	0.04	LIGNITE	Woody textured, humified, dark brown, low strength, brittle, good core - unbroken.
		SB3		C0284	18.14	0.19	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
		SB3		C0284	18.17	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		SB3		C0284	18.20	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		SB3		C0284	18.24	0.04	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		SB3		C0284	18.28	0.04	LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SB3		C0285	18.42	0.14	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		SB3		C0285	18.53	0.11	INFERIOR LIGNITE and LIGNITE and CLAY	Intermixed 80:10:10. INFERIOR LIGNITE: dark brown, firm, high plasticity (clay), good core - unbroken; LIGNITE: clayey, dark brown - black, firm, friable, good core - unbroken; CLAY: light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
		SB3		C0285	18.80	0.27	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.

					BASE OF SEAM SB3	18.80	2.07	

				C0286	18.87	0.07	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
				C0286	18.90	0.03	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0286	18.92	0.02	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0286	19.16	0.24	CLAY and CLAY	Intermixed 70:30. CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common bioturbation; CLAY: light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.

					TOP OF SEAM SB4	19.16		

		SB4		C0287	19.33	0.17	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
		SB4		C0287	19.38	0.05	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, subfissile.
		SB4		C0287	19.66	0.28	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.

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STRAT NAME	SEG NO.	SEAM NAME	WRK SECT.	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		SB4		C0288	19.75	0.09	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		SB4		C0288	19.89	0.14	CLAY and CLAY	Intermixed 80:20. CLAY: medium to dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		SB4		C0288	20.04	0.15	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
		SB4		C0288	20.15	0.11	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
		SB4		C0288	20.23	0.08	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
		SB4		C0288	20.27	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, occasional bioturbation.
		SB4		C0288	20.48	0.21	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
BASE OF SEAM SB4					20.48	1.32		
				C0288	20.64	0.16	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				C0288	20.68	0.04	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, occasional bioturbation.
				C0289	20.80	0.12	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0289	20.84	0.04	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0289	20.98	0.14	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken, abundant bioturbation.
				C0289	21.02	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0289	21.13	0.11	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, abundant bioturbation.
				C0290	21.19	0.06	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.
				C0290	21.54	0.35	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, common bioturbation; Additional features include: expanding clay.
				C0290	21.82	0.28	CLAY	Sandy, light to medium grey, firm, high plasticity (clay), good core - unbroken, fine and medium grained, occasional bioturbation; Additional features include: good core - unbroken, occasional ligneous wisps.
				C0290	22.10	0.28	CLAY and CLAY	Intermixed 80:20. CLAY: silty, light to medium brown, firm, high plasticity (clay), good core - unbroken; CLAY: sandy, light to medium grey, firm, high plasticity (clay), good core - unbroken.
				C0290	22.41	0.31	CLAY and CLAY	Intermixed 60:40. CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken; CLAY: silty, light to medium grey, firm, high plasticity (clay), good core - unbroken.
					23.50	1.08	CLAY	Silty, sandy, light to medium grey - brown, firm, high plasticity (clay).
					24.20	0.70	CLAY	Light to medium brown, firm, high plasticity (clay).
					25.00	0.80	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 60:40. INFERIOR LIGNITE: clayey, gelatinous, dark brown, firm, friable; LIGNEOUS CLAY: dark brown - black, firm, high plasticity (organic).
					25.60	0.60	CLAY	Lithic, medium to dark brown, firm, high plasticity (clay), common woody fragments; Additional features include: silty, sandy.
					28.80	3.20	CLAY	Silty, sandy, light to medium grey - brown, firm, high plasticity (clay), common ligneous fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					29.00	0.20	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 80:20. INFERIOR LIGNITE: clayey, gelatinous, dark brown - black, soft, friable; LIGNEOUS CLAY: dark brown - black, firm, high plasticity (organic).
					30.40	1.40	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (organic); Bands include: INFERIOR LIGNITE, clayey, gelatinous, dark brown - black, soft, friable; Bands include: CLAY, base at 0031.00m, medium to dark brown, firm, high plasticity (clay).
					33.20	2.80	CLAY	Light to medium brown - grey, firm, high plasticity (clay).
					34.70	1.50	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), common ligneous wisps.
					36.00	1.30	CLAY	Light to medium brown - grey, firm, high plasticity (clay), occasional woody fragments.
					38.40	2.40	CLAY	Light to medium grey - brown, firm, high plasticity (clay).
					39.00	0.60	SIDERITE	Light to medium brown, high strength, tough.
					43.70	4.70	CLAY	Light to medium grey - brown, firm, high plasticity (clay), common woody fragments; Additional features include: occasional ligneous wisps.
					43.90	0.20	SIDERITE	Light to medium brown, extremely high strength, tough.
					45.60	1.70	CLAY	Silty, light to medium grey - brown, firm, high plasticity (clay).
					46.10	0.50	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable.
					48.00	1.90	CLAY	Light to medium grey, firm, high plasticity (clay).
					49.00	1.00	CLAY	Silty, light to medium brown - grey, firm, low plasticity (clay).
					51.30	2.30	CLAY	Light to medium brown - grey, firm, high plasticity (clay).
					52.50	1.20	LIGNEOUS CLAY	Dark brown - black, soft, low plasticity (organic).

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					53.50	1.00	CLAY and CLAY	Interbedded 60:40. CLAY: ligneous, medium to dark brown, firm, high plasticity (clay); CLAY: carbonaceous, medium to dark brown - grey, firm, high plasticity (clay), common ligneous wisps.
					55.50	2.00	CLAY	Light to medium brown - grey, firm, high plasticity (clay).
					56.00	0.50	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay).
					57.60	1.60	CLAY	Light to medium grey, firm, high plasticity (clay); Bands include: LIGNEOUS CLAY, dark brown - black, firm, low plasticity (organic).
					58.00	0.40	INFERIOR LIGNITE	Clayey, gelatinous, dark brown - black, firm, low plasticity (organic).
					60.00	2.00	CLAY and CLAY	Interbedded 50:50. CLAY: light to medium brown - grey, firm, high plasticity (clay); CLAY: medium to dark brown, firm, high plasticity (clay).
					63.70	3.70	CLAY	Light to medium brown, firm, high plasticity (clay).
					64.80	1.10	LIGNEOUS CLAY and INFERIOR LIGNITE	Interbedded 70:30. LIGNEOUS CLAY: dark brown - black, firm, low plasticity (organic); INFERIOR LIGNITE: clayey, glauconitic, dark brown - black, soft, low plasticity (organic).
					65.10	0.30	CLAY	Light to medium grey, firm, high plasticity (clay).
					65.30	0.20	SIDERITE	Light grey - brown, extremely high strength, tough; Bands include: CLAY, light to medium brown - grey, firm, high plasticity (clay).
					68.40	3.10	SILT	Sandy, clayey, light white - grey, soft, non-plastic, fine grained, common woody fragments; Additional features include: quartzose.
					68.85	0.45	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic); Bands include: INFERIOR LIGNITE, gelatinous, clayey, dark brown, soft, low plasticity (organic).
					72.00	3.15	CLAY	Light to medium grey - brown, firm, high plasticity (clay); Bands include: CLAY, medium to dark brown, firm, high plasticity (clay), rare ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					73.25	1.25	INFERIOR LIGNITE	Gelatinous, clayey, dark brown - black, soft, low plasticity (organic); Bands include: LIGNEOUS CLAY, dark brown - black, firm, low plasticity (organic).
					78.00	4.75	CLAY and CLAY	Interbedded 80:20. CLAY: light to medium grey - brown, firm, high plasticity (clay); CLAY: medium to dark brown, firm, high plasticity (clay); Bands include: LIGNEOUS CLAY, dark brown, firm, low plasticity (organic); Bands include: INFERIOR LIGNITE, clayey, dark brown, firm, low plasticity (organic).

END OF BORE AT	78.00 m
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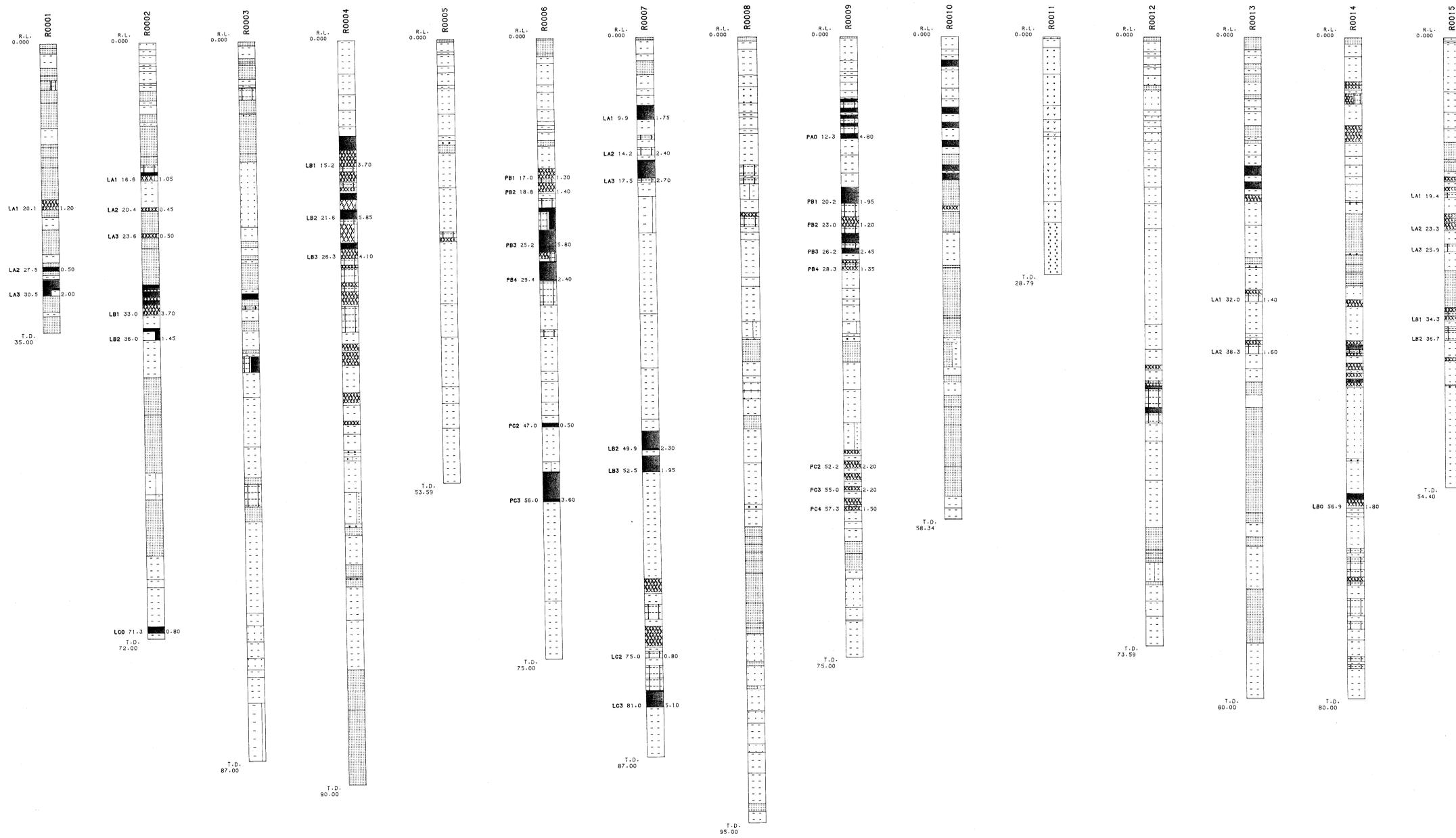
APPENDIX 7

EL 20/80 LAUNCESTON

Graphic Logs of Boreholes Drilled during October - December, 1981, and March - April, 1982.

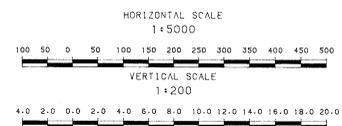
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LITHOLOGY REFERENCE

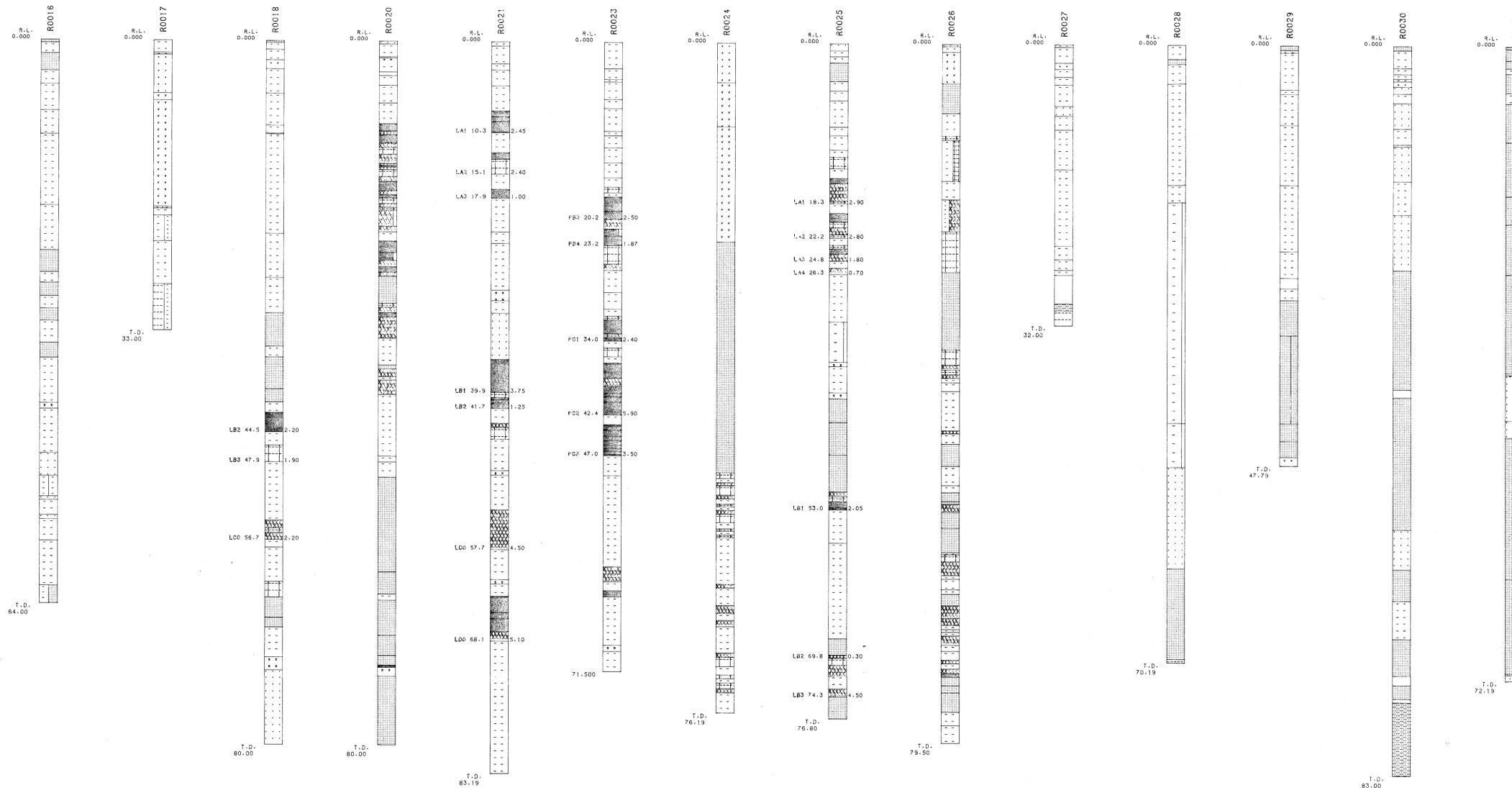
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[Symbol]	CLAY	[Symbol]	LIMESTONE
[Symbol]	SILT	[Symbol]	SIDERITE
[Symbol]	SAND	[Symbol]	LIGNITE
[Symbol]	GRAVEL	[Symbol]	LIGNITE (UNDIFF.)
[Symbol]	ALLOVIUM	[Symbol]	LIGNITE WEATHERED
[Symbol]	CLAYSTONE	[Symbol]	LIGNITE INFERIOR
[Symbol]	MUDSTONE	[Symbol]	LIGNEOUS CLAY
[Symbol]	SHALE	[Symbol]	DOLERITE
[Symbol]	SILTSTONE	[Symbol]	BASALT
[Symbol]	SANDSTONE	[Symbol]	BASEMENT (UNDIFF.)
[Symbol]	CONGLOMERATE	[Symbol]	CORE LOSS



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR	
DRAWN	DATE	EL 20/80 LAUNCESTON LITHOLOGICAL LOGS		SCALE	V 1:200 H 1:5000
ELLIS	15-DEC-82	R001-R015		FIGURE 52	
CHECKED		628388		DRAWING NO.	70020-96
REVISED					

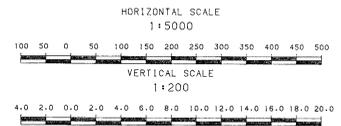
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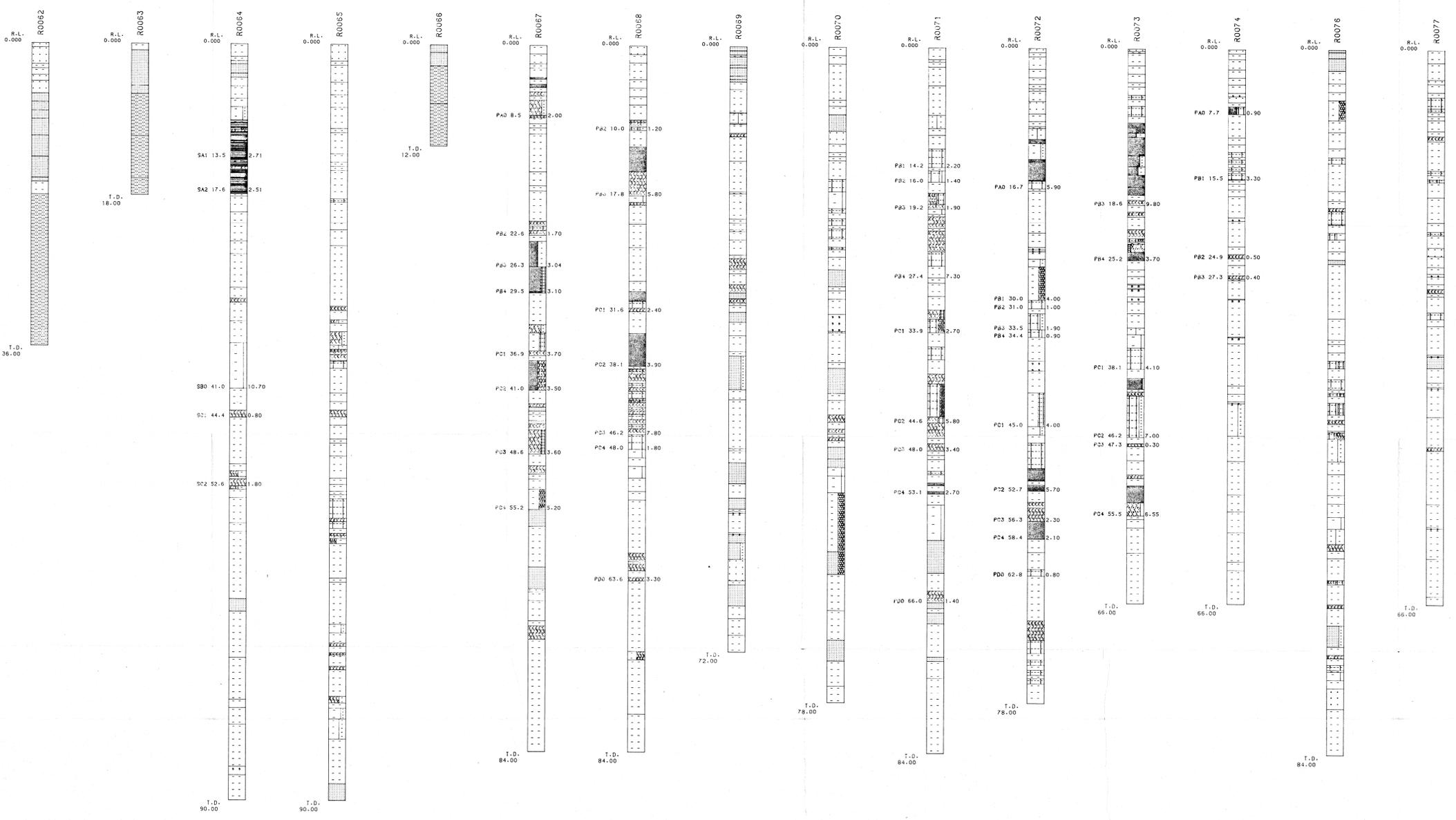
LEGEND
LITHOLOGY REFERENCE

- SOIL
- INTERBEDDED SEDIMENTS (SANDST/MUDST 50:50)
- CLAY
- LIMESTONE
- SILT
- SIDERITE
- SAND
- LIGNITE
- GRAVEL
- LIGNITE (UNDIFF.)
- ALLUVIUM
- LIGNITE WEATHERED
- CLAYSTONE
- LIGNITE INFERIOR
- MUDSTONE
- LIGNEOUS CLAY
- SHALE
- ODLERITE
- SILTSTONE
- BASALT
- SANDSTONE
- BASEMENT (UNDIFF.)
- CONGLOMERATE
- CORE LOSS



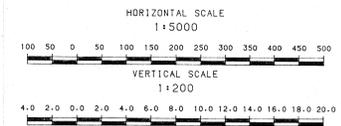
CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		
DRAWING	DATE	EL 20/80 LAUNCESTON		SCALE V 1:200 H 1:5000
ELLIS	15-DEC-82	SECTION 37		628389
CHECKED		LOGS R0016-R0031		FIGURE 53
REVISED				DRAWING NO. 70020-97

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LEGEND
LITHOLOGY REFERENCE

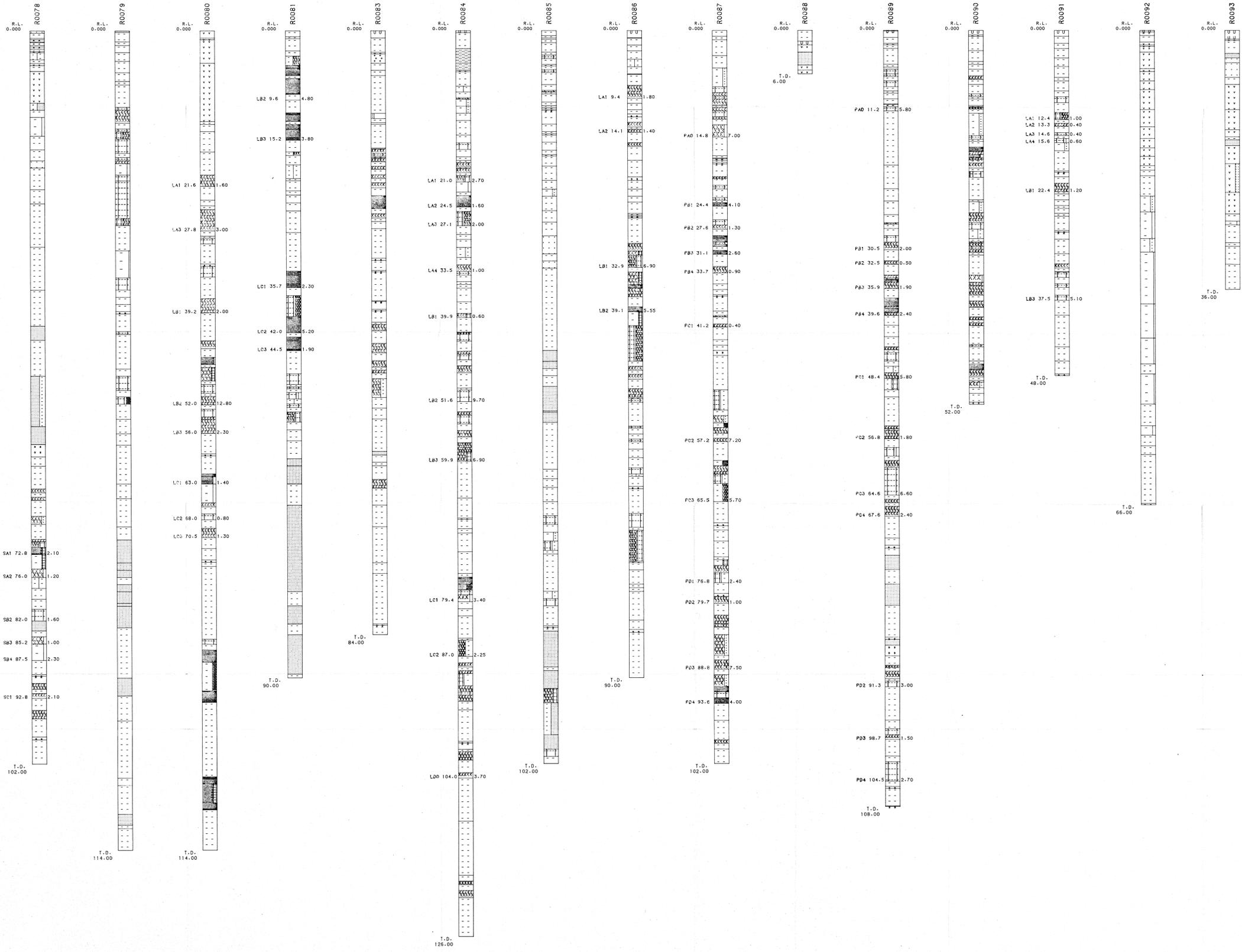
- SOIL
- INTERBEDDED SEDIMENTS (SANDST/MUDST 50:50)
- CLAY
- LIMESTONE
- SILT
- SIDERITE
- SAND
- LIGNITE
- GRAVEL
- LIGNITE (UNDIFF.)
- ALLUVIUM
- LIGNITE WEATHERED
- CLAYSTONE
- LIGNITE INFERIOR
- MUDSTONE
- LIGNEOUS CLAY
- SHALE
- DOLERITE
- SILTSTONE
- BASALT
- SANDSTONE
- BASEMENT (UNDIFF.)
- CONGLOMERATE
- CORE LOSS



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		
DRAWING	DATE	EL 20/80 LAUNCESTON LITHOLOGICAL LOGS		SCALE V 1:200 H 1:5000
DRAWN ELLIS	15-DEC-82	R062-R077		FIGURE 54
CHECKED		628390	DRAWING NO. 70020-98	
REVISED				

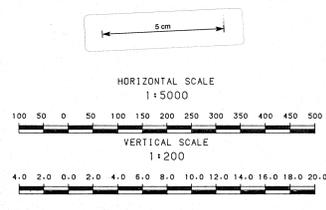
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LEGEND LITHOLOGY REFERENCE

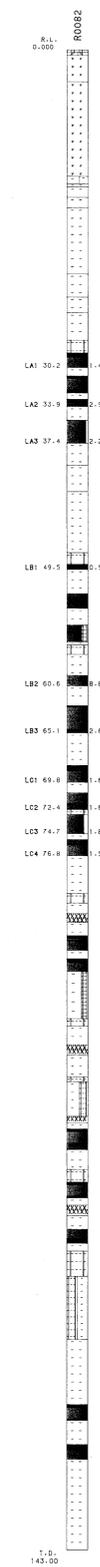
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- [Symbol] CLAY
- [Symbol] SILT
- [Symbol] SAND
- [Symbol] GRAVEL
- [Symbol] ALLUVIUM
- [Symbol] CLAYSTONE
- [Symbol] MUDSTONE
- [Symbol] SHALE
- [Symbol] SILTSTONE
- [Symbol] SANDSTONE
- [Symbol] CONGLOMERATE
- [Symbol] INTERBEDDED SEDIMENTS (SAND/CLAY 50:50)
- [Symbol] LIMESTONE
- [Symbol] SIDERITE
- [Symbol] LIGNITE
- [Symbol] LIGNITE (UNDIFF.)
- [Symbol] LIGNITE WEATHERED
- [Symbol] LIGNITE INFERIOR
- [Symbol] LIGNEOUS CLAY
- [Symbol] DOLERITE
- [Symbol] BASALT
- [Symbol] BASEMENT (UNDIFF.)
- [Symbol] CORE LOSS



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		SCALE V 1:200 H 1:5000	
DRAWN	ELLIS	DATE	15-DEC-82	EL 20/80 LAUNCESTON LITHOLOGICAL LOGS	
CHECKED				R078-R093	
REVISED				DRAWING NO. 70020-99	
				628391	

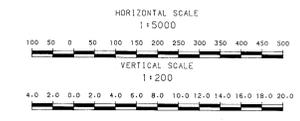
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LEGEND
LITHOLOGY REFERENCE

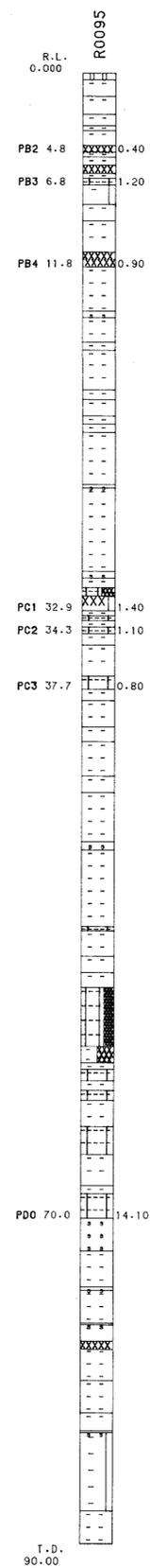
- SOIL
- CLAY
- SILT
- SAND
- GRAVEL
- ALLUVIUM
- CLAYSTONE
- MUDSTONE
- SHALE
- SILTSTONE
- SANDSTONE
- CONGLOMERATE
- INTERBEDDED SEDIMENTS (SANDST/MUDST 50:50)
- LIMESTONE
- SIDERITE
- LIGNITE
- LIGNITE (UNDIFF.)
- LIGNITE WEATHERED
- LIGNITE INFERIOR
- LIGNEDUS CLAY
- DOLERITE
- BASALT
- BASEMENT (UNDIFF.)
- CORE LOSS



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP	
DRAWING	DATE	EL 20/80 LAUNCESTON LITHOLOGICAL LOG R082	
ELLIS	15-DEC-82		
CHECKED			
REVISED		SCALE V 1:200 H 1:5000	FIGURE 56 DRAWING NO. 70020-100

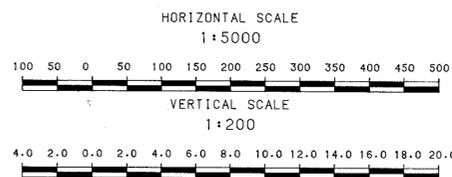
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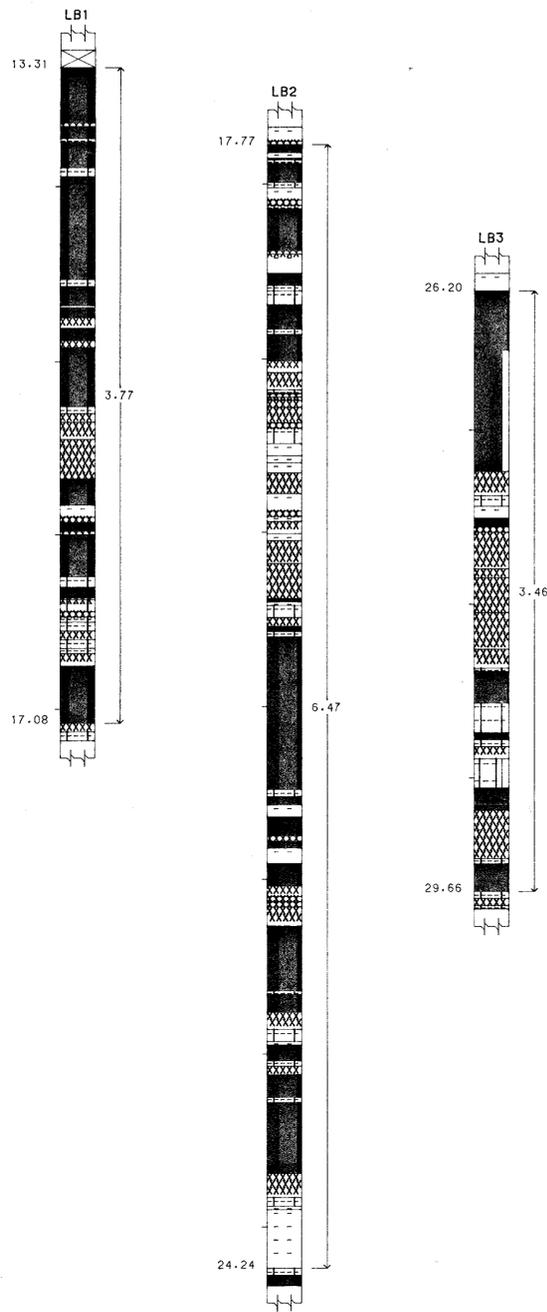
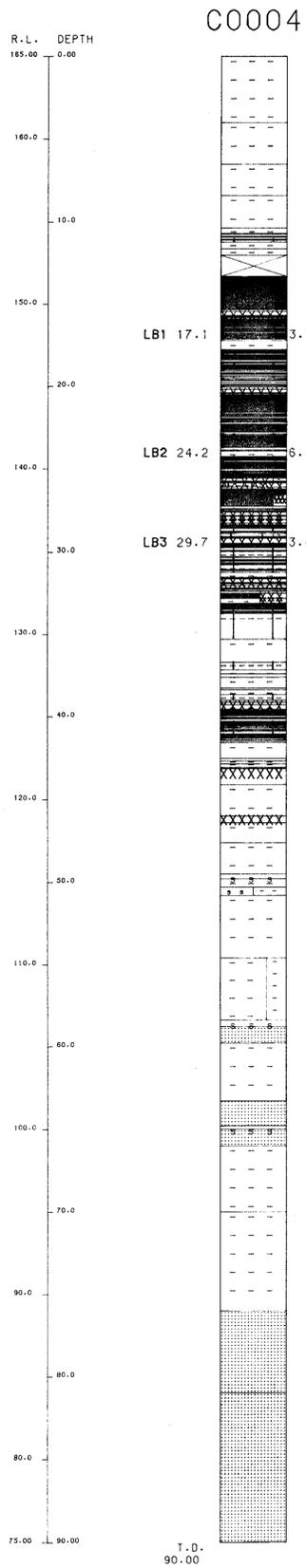


LEGEND
LITHOLOGY REFERENCE

- | | | | |
|--|--------------|--|--|
| | SOIL | | INTERBEDDED SEDIMENTS [SANDST/MUDST 50:50] |
| | CLAY | | LIMESTONE |
| | SILT | | SIDERITE |
| | SAND | | LIGNITE |
| | GRAVEL | | LIGNITE [UNDIFF.] |
| | ALLUVIUM | | LIGNITE WEATHERED |
| | CLAYSTONE | | LIGNITE INFERIOR |
| | MUDSTONE | | LIGNEOUS CLAY |
| | SHALE | | DOLERITE |
| | SILTSTONE | | BASALT |
| | SANDSTONE | | BASEMENT [UNDIFF.] |
| | CONGLOMERATE | | CORE LOSS |



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		
DRAWN ELLIS	DATE 15-DEC-82	EL 20/80 LAUNCESTON LITHOLOGICAL LOGS R094, R095		
CHECKED				SCALE V 1:200 H 1:5000
REVISED		DRAWING NO. 70020-101		628393



LEGEND
LITHOLOGY REFERENCE

SOIL	INTERBEDDED SEDIMENTS [SANDST/MUDST 50:50]
CLAY	LIMESTONE
SILT	SIDERITE
SAND	LIGNITE
GRAVEL	LIGNITE [UNDIFF.]
ALLUVIUM	LIGNITE WEATHERED
CLAYSTONE	LIGNITE INFERIOR
MUDSTONE	LIGNEOUS CLAY
SHALE	DOLERITE
SILTSTONE	BASALT
SANDSTONE	BASEMENT [UNDIFF.]
CONGLOMERATE	CORE LOSS

LEGEND
SEAM SECTIONS REFERENCE

LIGNITE - UNDIFFERENTIATED

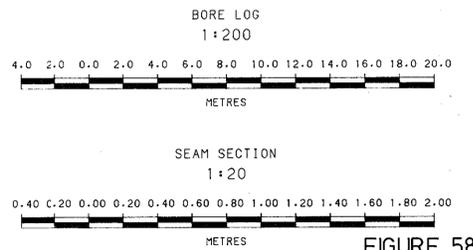
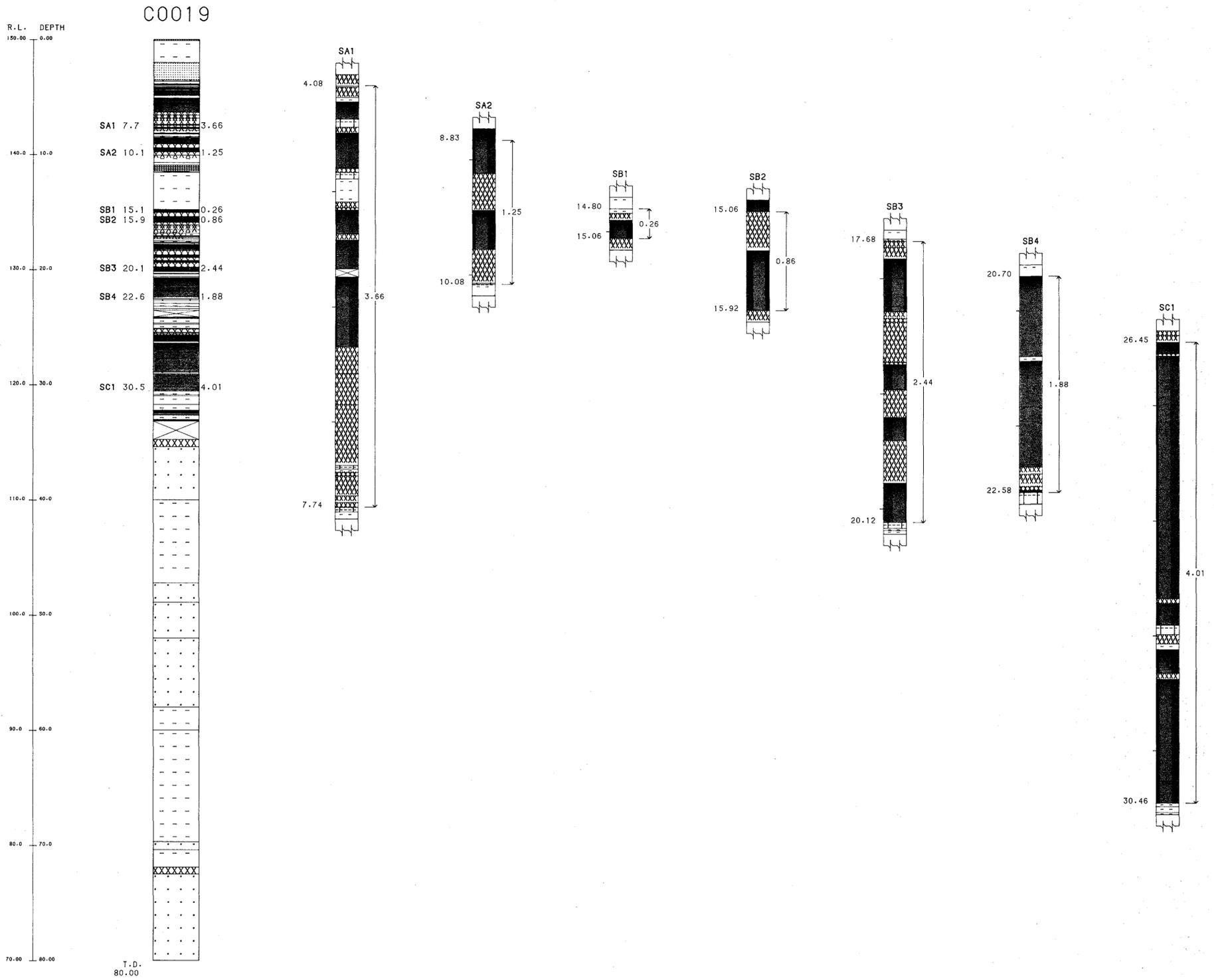


FIGURE 58

CSR Exploration & Evaluation.
EL 20/80 LAUNCESTON

EXPANDED PLOT C004

SCALE: 1:200/1:20	DATE: 15-DEC-82
DRAWN: ELLIS	REVN: PLAN NO
CHECKED:	70020-102
APPROVED:	



LEGEND
LITHOLOGY REFERENCE

	SOIL		INTERBEDDED SEDIMENTS [SANDST/MUDST 50+50]
	CLAY		LIMESTONE
	SILT		SIDERITE
	SAND		LIGNITE
	GRAVEL		LIGNITE (UNDIFF.)
	ALLUVIUM		LIGNITE WEATHERED
	CLAYSTONE		LIGNITE INFERIOR
	MUDSTONE		LIGNEOUS CLAY
	SHALE		DOLERITE
	SILTSTONE		BASALT
	SANDSTONE		BASEMENT (UNDIFF.)
	CONGLOMERATE		CORE LOSS

LEGEND
SEAM SECTIONS REFERENCE

	LIGNITE - UNDIFFERENTIATED
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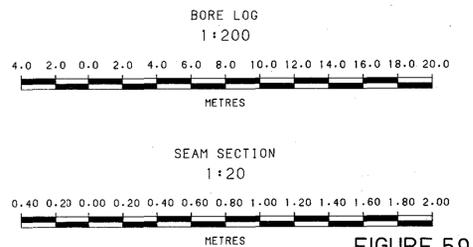


FIGURE 59

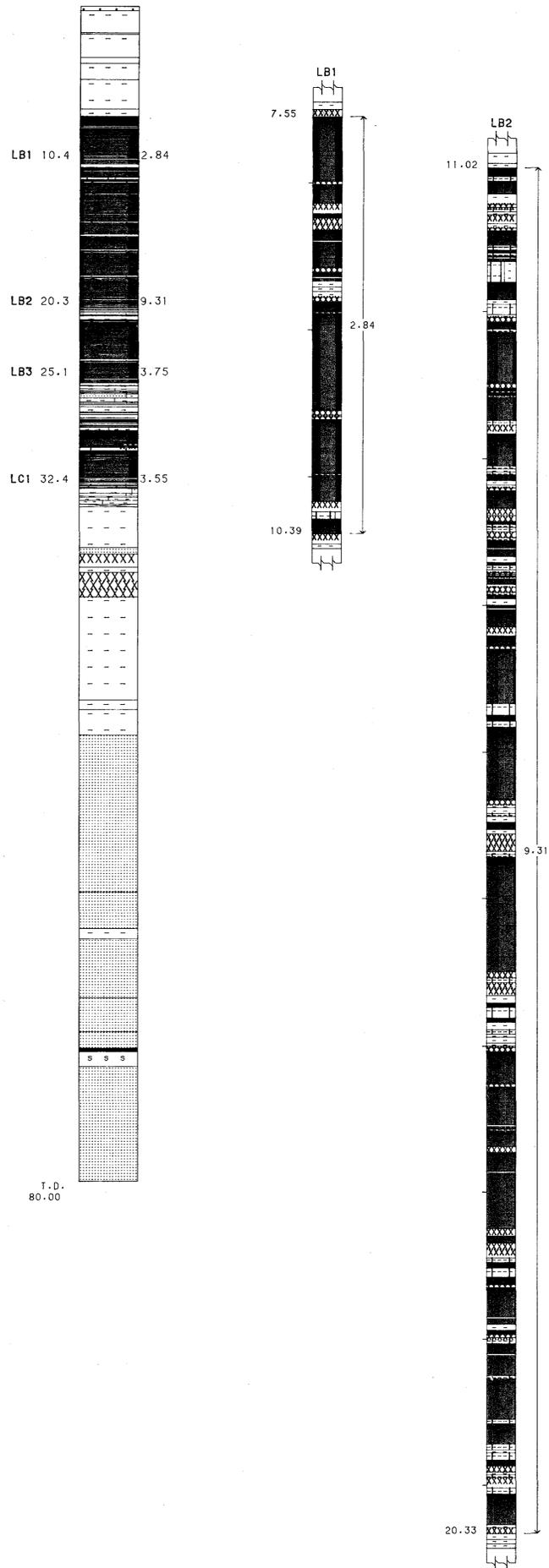
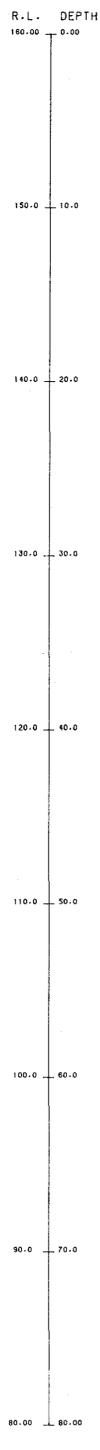
CSR Exploration & Evaluation.
EL 20/80 LAUNCESTON

EXPANDED PLOT C019

SCALE:	1:200/1:20	DATE:	15-DEC-82
DRAWN:	ELLIS	REVN	PLAN NO
CHECKED:			70020-103
APPROVED:			

CSR Limited software by E.S.C.S. & Thiess MSL 411

C0020



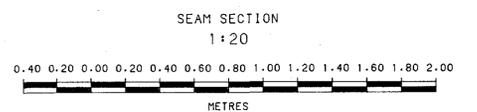
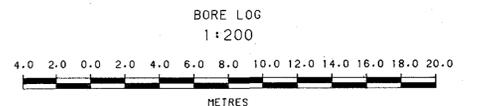
LEGEND
LITHOLOGY REFERENCE

- | | |
|--------------|--|
| SOIL | INTERBEDDED SEDIMENTS [SANDST/MUDST 50:50] |
| CLAY | LIMESTONE |
| SILT | SIDERITE |
| SAND | LIGNITE |
| GRAVEL | LIGNITE [UNDIFF.] |
| ALLUVIUM | LIGNITE WEATHERED |
| CLAYSTONE | LIGNITE INFERIOR |
| MUDSTONE | LIGNEOUS CLAY |
| SHALE | DOLERITE |
| SILTSTONE | BASALT |
| SANDSTONE | BASEMENT [UNDIFF.] |
| CONGLOMERATE | CORE LOSS |

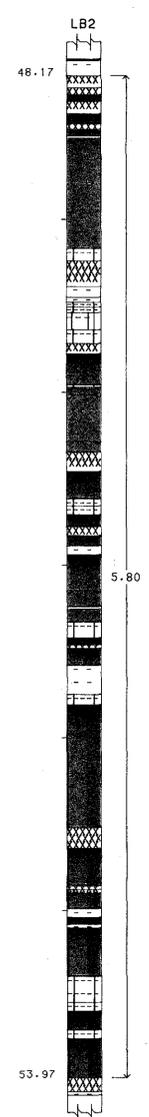
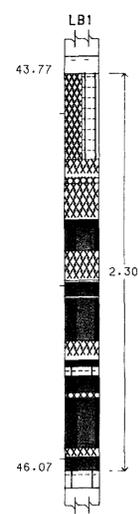
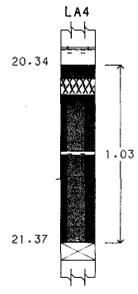
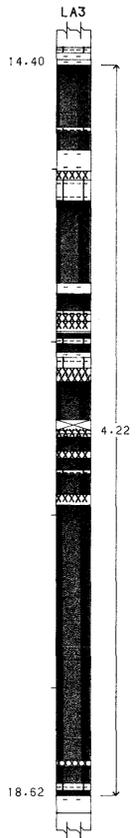
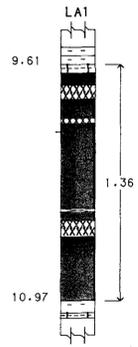
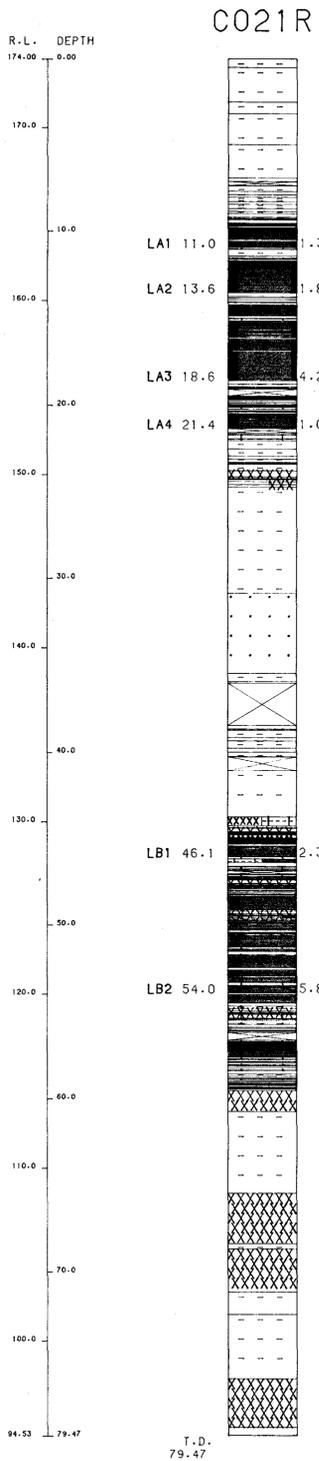
LEGEND
SEAM SECTIONS REFERENCE

- | |
|----------------------------|
| LIGNITE - UNDIFFERENTIATED |
|----------------------------|

5cm



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP			
DRAWING	DATE	EL20/80 LAUNCESTON EXPANDED PLOT C0020		SCALE	
DRAWN	15-DEC-82			FIGURE 60	
CHECKED				DRAWING NO. 70020-104	
REVISED				628396	

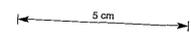
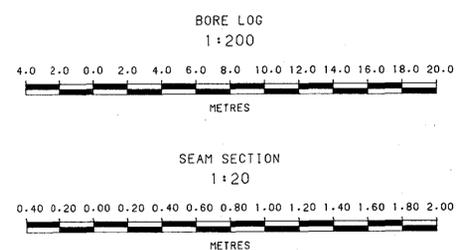


LEGEND
LITHOLOGY REFERENCE

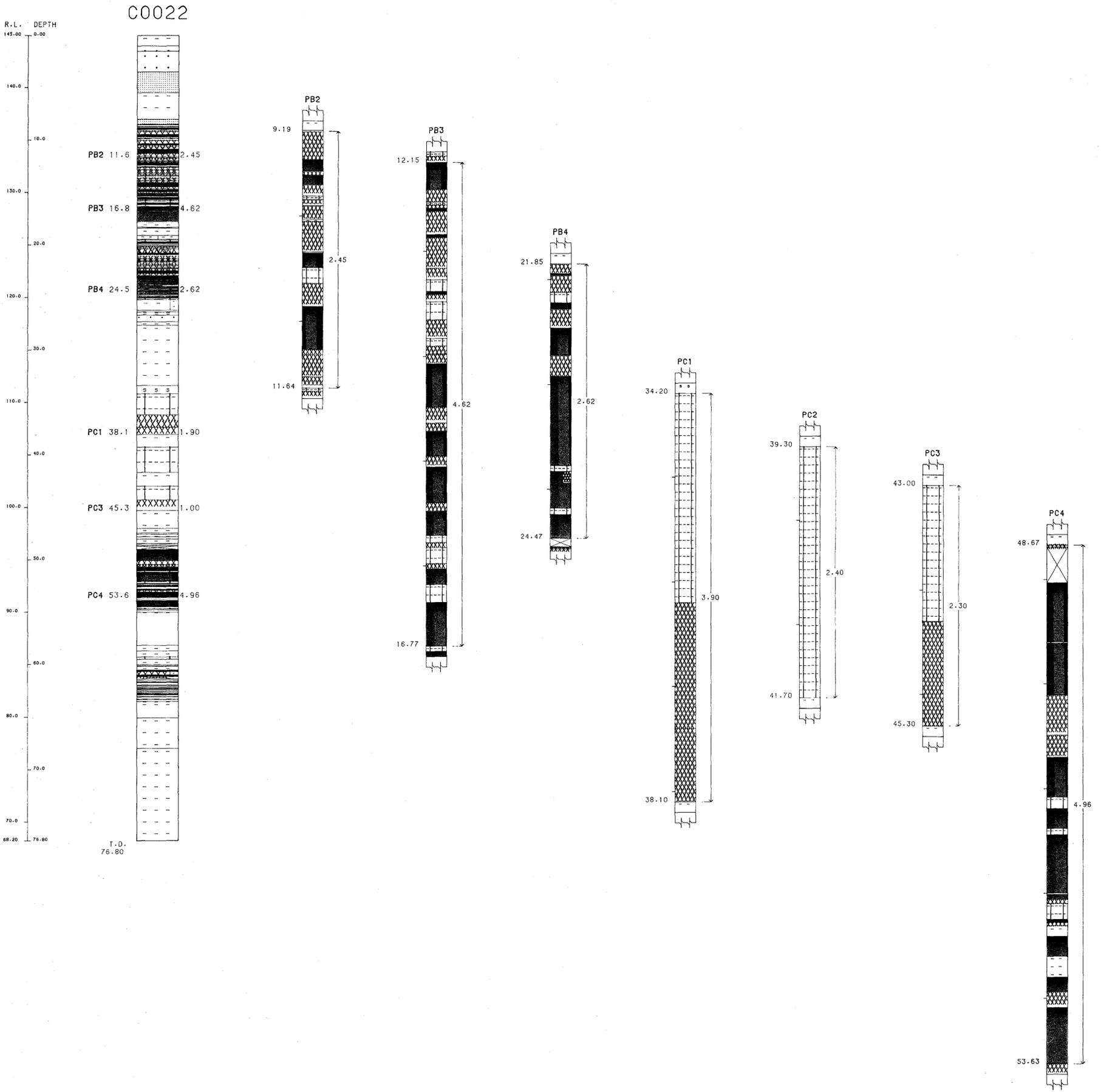
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	CLAY		LIMESTONE
	SILT		SIDERITE
	SAND		LIGNITE
	GRAVEL		LIGNITE (UNDIFF.)
	ALLUVIUM		LIGNITE WEATHERED
	CLAYSTONE		LIGNITE INFERIOR
	MUDSTONE		LIGNEOUS CLAY
	SHALE		DOLERITE
	SILTSTONE		BASALT
	SANDSTONE		BASEMENT (UNDIFF.)
	CONGLOMERATE		CORE LOSS

LEGEND
SEAM SECTIONS REFERENCE

	LIGNITE - UNDIFFERENTIATED
--	----------------------------



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		
DRAWING	DATE	EL 20/80 LAUNCESTON EXPANDED PLOT C021R		SCALE
DRAWN	15-DEC-82			FIGURE 61
CHECKED				DRAWING NO.
REVISED				70020-105
		628397	413	



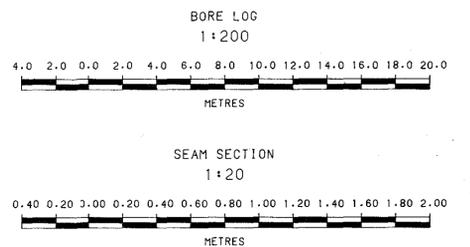
LEGEND
LITHOLOGY REFERENCE

	SOIL		INTERBEDDED SEDIMENTS [SANDST/MUDST 50:50]
	CLAY		LIMESTONE
	SILT		SIDERITE
	SAND		LIGNITE
	GRAVEL		LIGNITE [UNDIFF.]
	ALLUVIUM		LIGNITE WEATHERED
	CLAYSTONE		LIGNITE INFERIOR
	MUDSTONE		LIGNEOUS CLAY
	SHALE		DOLERITE
	SILTSTONE		BASALT
	SANDSTONE		BASEMENT [UNDIFF.]
	CONGLOMERATE		CORE LOSS

LEGEND
SEAM SECTIONS REFERENCE

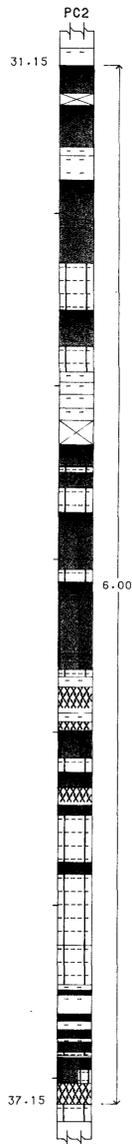
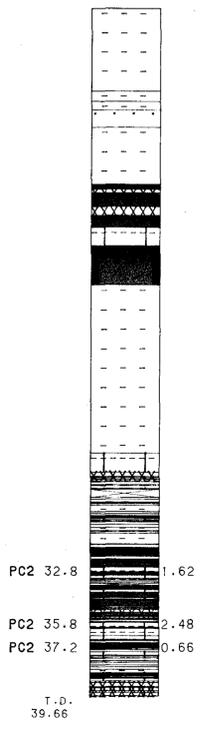
	LIGNITE - UNDIFFERENTIATED
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5cm



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP			
DRAWING	DATE	EL 20/80 LAUNCESTON		SCALE	
ELLIS	15-DEC-82	EXPANDED PLOT C022		FIGURE 62	
CHECKED		628398		DRAWING NO.	
REVISED				70020-106	

C033R



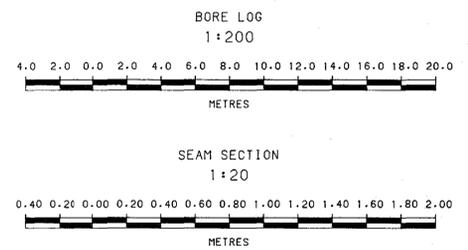
LEGEND
LITHOLOGY REFERENCE

SOIL	INTERBEDDED SEDIMENTS [SANDST/MUDST 50:50]
CLAY	LIMESTONE
SILT	SIDERITE
SAND	LIGNITE
GRAVEL	LIGNITE [UNDIFF.]
ALLUVIUM	LIGNITE WEATHERED
CLAYSTONE	LIGNITE INFERIOR
MUDSTONE	LIGNEOUS CLAY
SHALE	DOLERITE
SILTSTONE	BASALT
SANDSTONE	BASEMENT [UNDIFF.]
CONGLOMERATE	CORE LOSS

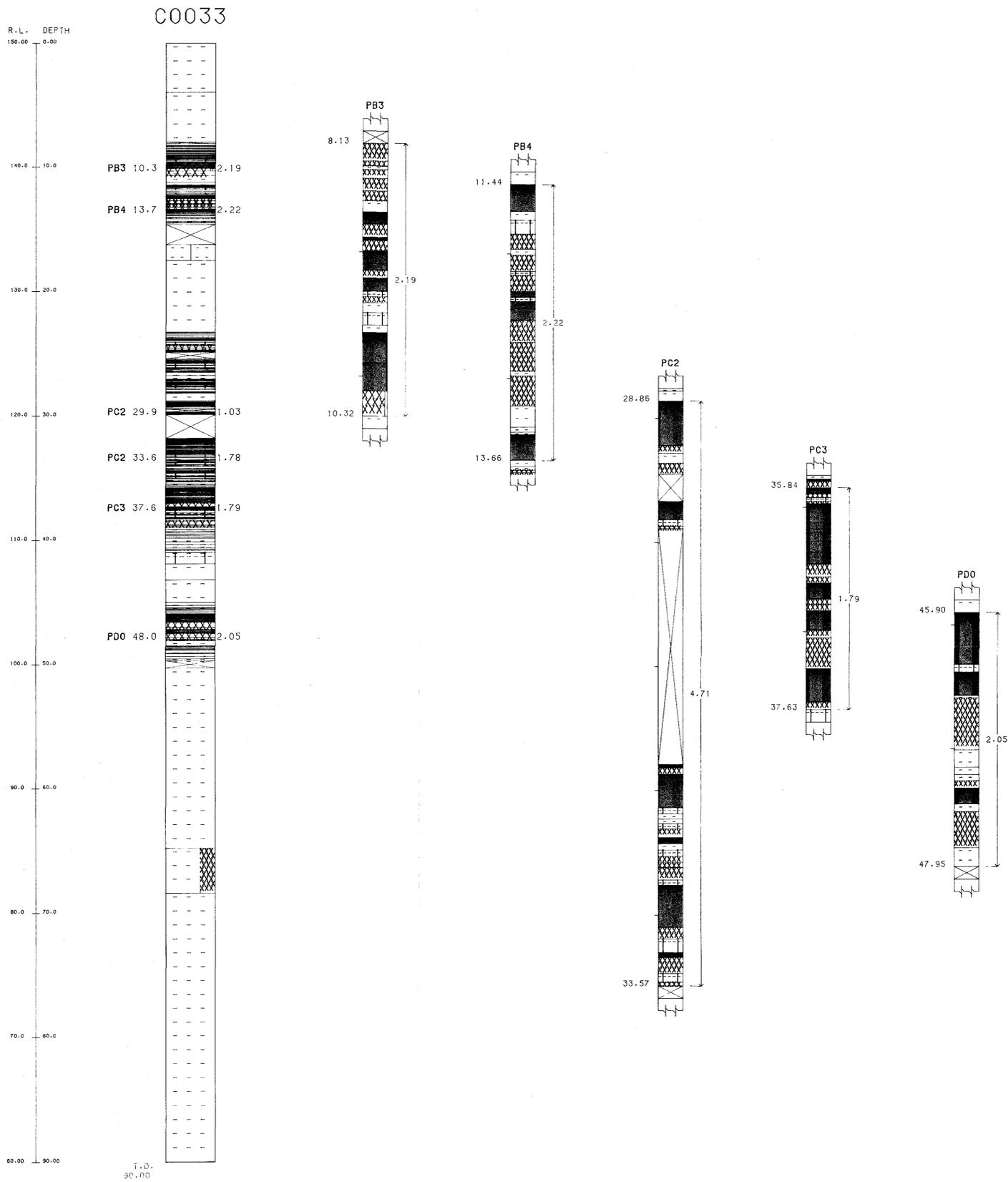
LEGEND
SEAM SECTIONS REFERENCE

LIGNITE - UNDIFFERENTIATED

5 cm



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP			
DRAWING	DATE	EL 20/80 LAUNCESTON EXPANDED PLOT C033R		SCALE	
DRAWN	15-DEC-82			628399	FIGURE 63
CHECKED					DRAWING NO.
REVISED					70020-107415

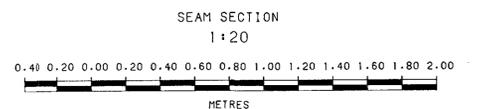
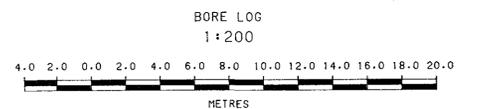


LEGEND
LITHOLOGY REFERENCE

- | | |
|--------------|--|
| SOIL | INTERBEDDED SEDIMENTS [SANDST/MUDST 50:50] |
| CLAY | LIMESTONE |
| SILT | SIDERITE |
| SAND | LIGNITE |
| GRAVEL | LIGNITE [UNDIFF.] |
| ALLUVIUM | LIGNITE WEATHERED |
| CLAYSTONE | LIGNITE INFERIOR |
| MUDSTONE | LIGNEOUS CLAY |
| SHALE | DOLERITE |
| SILTSTONE | BASALT |
| SANDSTONE | BASEMENT [UNDIFF.] |
| CONGLOMERATE | CORE LOSS |

LEGEND
SEAM SECTIONS REFERENCE

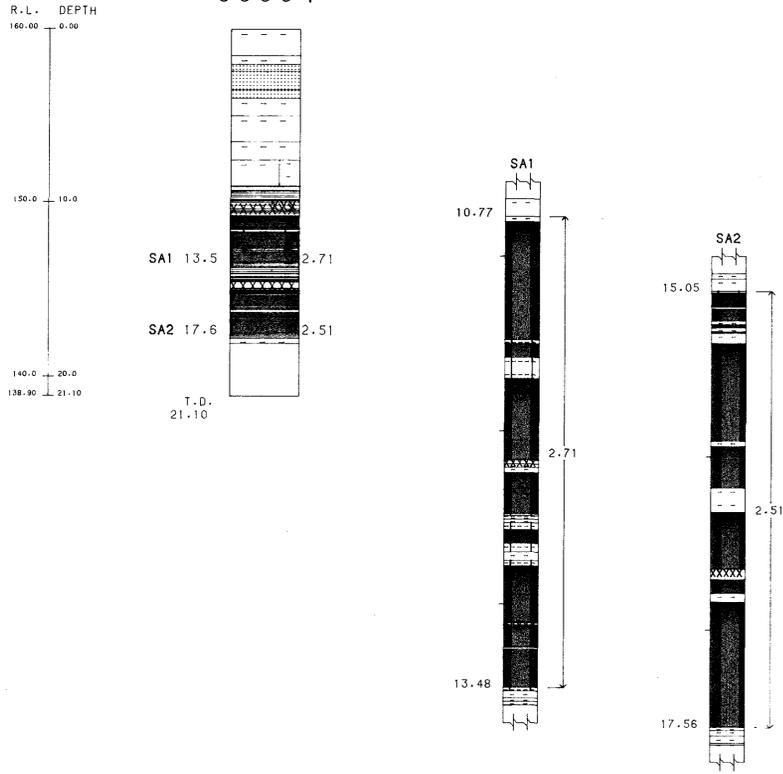
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|----------------------------|
| LIGNITE - UNDIFFERENTIATED |
|----------------------------|



5 cm

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR	
DRAWING	DATE	EL 20/80 LAUNCESTON EXPANDED PLOT C033		SCALE	
DRAWN	15-DEC-82			FIGURE 64	
CHECKED				DRAWING NO. 70020-108	
REVISED		628400			

C0064



LEGEND

LITHOLOGY REFERENCE

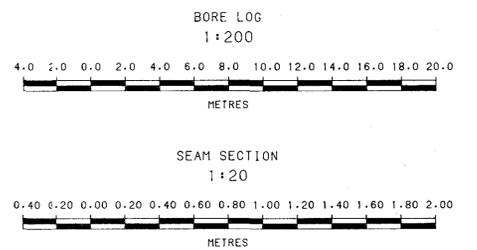
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	CLAY		LIMESTONE
	SILT		SIDERITE
	SAND		LIGNITE
	GRAVEL		LIGNITE (UNDIFF.)
	ALLUVIUM		LIGNITE WEATHERED
	CLAYSTONE		LIGNITE INFERIOR
	MUDSTONE		LIGNEOUS CLAY
	SHALE		DOLERITE
	SILTSTONE		BASALT
	SANDSTONE		BASEMENT (UNDIFF.)
	CONGLOMERATE		CORE LOSS

LEGEND

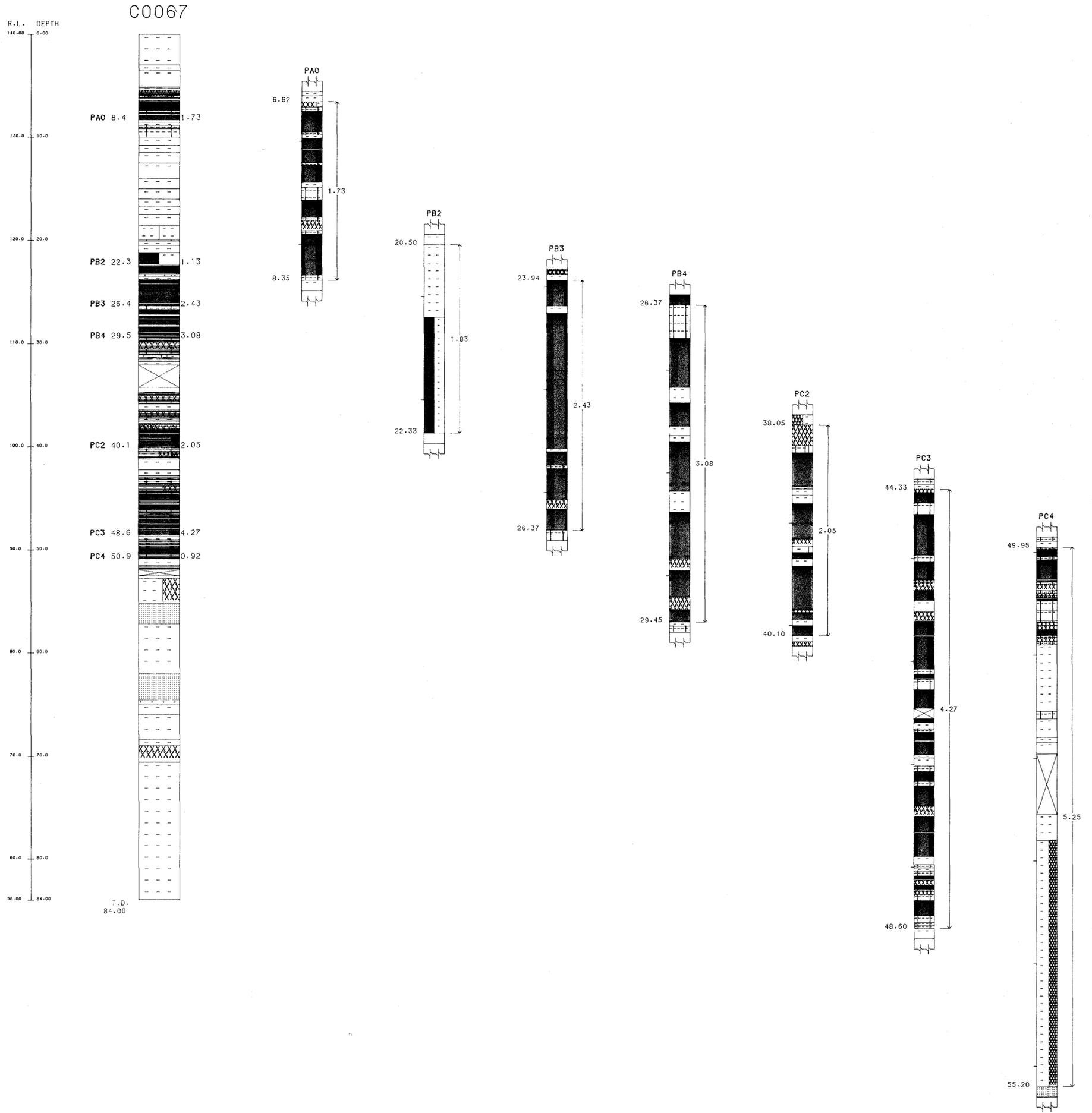
SEAM SECTIONS REFERENCE

	LIGNITE - UNDIFFERENTIATED
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5 cm



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		
DRAWING	DATE	EL 20/80 LAUNCESTON EXPANDED PLOT C064		SCALE
DRAWN	15-DEC-82			FIGURE 65
CHECKED				DRAWING NO.
REVISED				70020 - 109
		628401		417

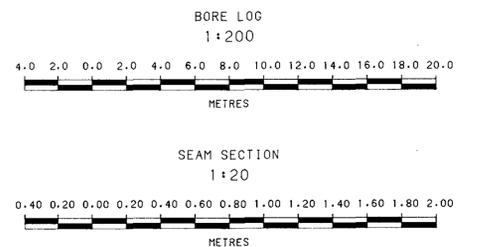


LEGEND
LITHOLOGY REFERENCE

SOIL	INTERBEDDED SEDIMENTS [SANDST/MUDST 50:50]
CLAY	LIMESTONE
SILT	SIDERITE
SAND	LIGNITE
GRAVEL	LIGNITE (UNDIFF.)
ALLUVIUM	LIGNITE WEATHERED
CLAYSTONE	LIGNITE INFERIOR
MUDSTONE	LIGNEOUS CLAY
SHALE	DOLERITE
SILTSTONE	BASALT
SANDSTONE	BASEMENT (UNDIFF.)
CONGLOMERATE	CORE LOSS

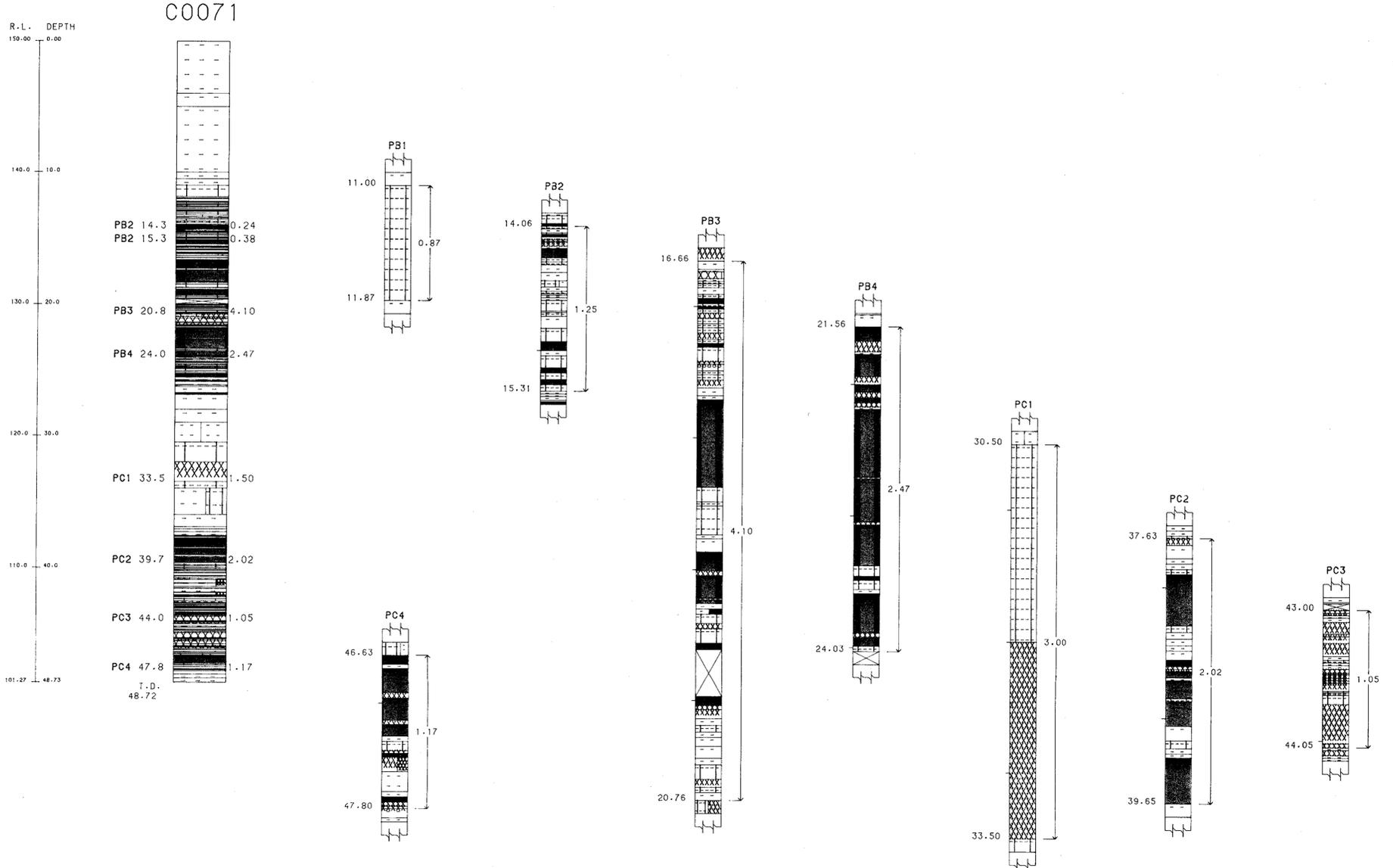
LEGEND
SEAM SECTIONS REFERENCE

LIGNITE - UNDIFFERENTIATED



5 cm

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		
DRAWING	DATE	EL 20/80 LAUNCESTON EXPANDED PLOT C067		SCALE
ELLIS	15-DEC-82			FIGURE 66
CHECKED				DRAWING NO. 70020-110
REVISED				628402



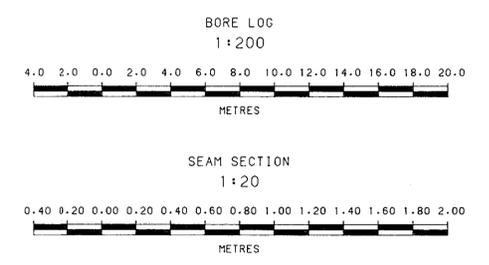
LEGEND
LITHOLOGY REFERENCE

	SOIL		INTERBEDDED SEDIMENTS [SANDST/MUDST 50:50]
	CLAY		LIMESTONE
	SILT		SIDERITE
	SAND		LIGNITE
	GRAVEL		LIGNITE [UNDIFF.]
	ALLUVIUM		LIGNITE WEATHERED
	CLAYSTONE		LIGNITE INFERIOR
	MUDSTONE		LIGNEOUS CLAY
	SHALE		DOLERITE
	SILTSTONE		BASALT
	SANDSTONE		BASEMENT [UNDIFF.]
	CONGLOMERATE		CORE LOSS

LEGEND
SEAM SECTIONS REFERENCE

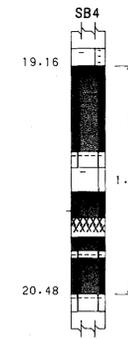
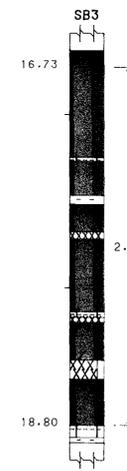
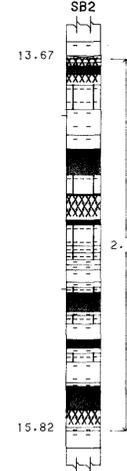
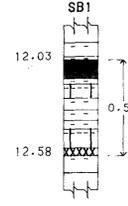
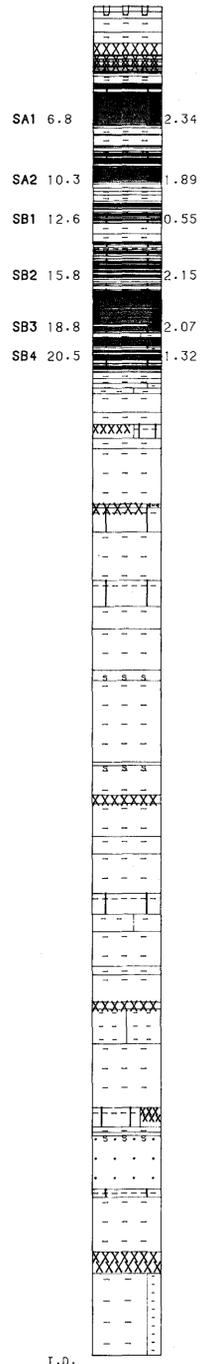
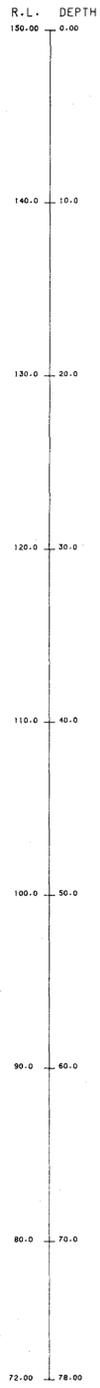
	LIGNITE - UNDIFFERENTIATED
--	----------------------------

5 cm



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		
DRAWING	DATE	EL 20/80 LAUNCESTON		SCALE
ELLIS	15-DEC-82	EXPANDED PLOT C071		FIGURE 67
CHECKED		628403		DRAWING NO. 70020-111
REVISED				

C0075



T.D.
78.00

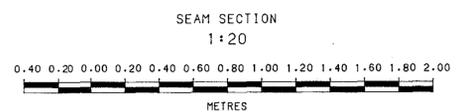
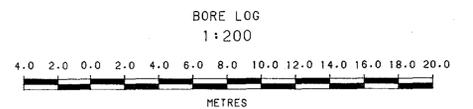
LEGEND
LITHOLOGY REFERENCE

- SOIL
- CLAY
- SILT
- SAND
- GRAVEL
- ALLUVIUM
- CLAYSTONE
- MUDSTONE
- SHALE
- SILTSTONE
- SANDSTONE
- CONGLOMERATE
- INTERBEDDED SEDIMENTS (SANDST/MUDST 50:50)
- LIMESTONE
- SIDERITE
- LIGNITE
- LIGNITE CUNDIFF. J
- LIGNITE WEATHERED
- LIGNITE INFERIOR
- LIGNEOUS CLAY
- DOLERITE
- BASALT
- BASEMENT CUNDIFF. J
- CORE LOSS

LEGEND
SEAM SECTIONS REFERENCE

- LIGNITE - UNDIFFERENTIATED

5 cm



CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP			
DRAWING	DATE	EL 20/80 LAUNCESTON EXPANDED PLOT C075		SCALE	
ELLIS	15-DEC-82			FIGURE 68	
CHECKED				DRAWING NO.	
REVISED				70020-112	
		628404			

APPENDIX EIGHT.

COMPUTER GENERATED COAL ANALYSIS SHEETS
FROM THE 1981 EXPLORATION PROGRAMME.

LAUNCESTON

COAL ANALYSIS TEST NO 1004 HOLE

ATP EL2090
LAUNCESTON

TENEMENT 2080

SEAM	SAMPLE	TY R	BASE THICK	SIZE FRACTION	PROXIMATES % BY WEIGHT FUEL	S. E	TOTAL TEST
NS	LAB FIELD	PE B	DEPTH -NESS	RAW WT	RD YIELD	IM VM ASH FC RATIO CSN	MJ/KG SULPHUR DATE LAB

	DRILLHOLE C0004						
	A60362 C2784	2 AD	12.01 1.63	R	2.32	7.0 12.7 79.1 1.2 0.1	0.36 0.05 01/81 BR
LB1	A60363 C2785	2 AD	14.45 1.14	R	1.60	12.2 34.1 27.9 25.8 0.8	15.42 0.30 01/81 BR
LB1	A59376 C2786	2 AD	14.75 0.30	R	1.48	20.6 32.2 23.1 24.1 0.7	14.64 0.36 01/81 BR
LB1	A60364 C2787	2 AD	15.26 0.51	R	1.47	20.6 32.7 20.0 26.7 0.8	15.88 0.26 01/81 BR
LB1	A60365 C2788	2 AD	15.83 0.57	R	1.51	27.6 24.8 30.9 16.7 0.7	10.44 0.22 01/81 BR
LB1	A59377 C2789	2 AD	16.10 0.27	R	1.54	19.8 30.3 28.9 22.0 0.7	12.90 0.29 01/81 BR
LB1	A60366 C2789	2 AD	16.10 0.27	R	1.72	10.6 27.9 41.8 19.7 0.7	11.26 0.25 01/81 BR
LB1	A60365 C0004	2 AD	16.32 0.22	R	1.51	27.6 24.8 30.9 16.7 0.7	10.44 0.22 01/81 BR
COMPOSITE OF C2788 -88 C0004 -04							
LB1	A60365	2 AD	16.32 0.79	R	1.51	27.6 24.8 30.9 16.7 0.7	10.44 0.22 01/81 BR
	A60367 C2791	2 AD	17.77 0.69	R	1.93	12.7 19.7 60.8 6.8 0.3	4.82 0.16 01/81 BR
LB2	A60368 C2792	2 AD	18.51 0.74	R	1.56	21.7 27.7 31.9 18.7 0.7	11.32 0.28 01/81 BR
LB2	A59378 C2793	2 AD	18.83 0.32	R	1.51	21.5 30.2 25.3 23.0 0.8	13.08 0.26 01/81 BR
LB2	A60368 C0005	2 AD	18.98 0.15	R	1.56	21.7 27.7 31.9 18.7 0.7	11.32 0.21 01/81 BR
COMPOSITE OF C2792 -92 C0005 -05							
LB2	A60368	2 AD	18.98 0.69	R	1.56	21.7 27.7 31.9 18.7 0.7	11.32 0.21 01/81 BR
LB2	A60369 C2794	2 AD	19.48 0.51	R	1.55	26.5 23.1 36.1 14.3 0.6	8.98 0.17 01/81 BR
LB2	A60370 C2795	2 AD	20.48 1.00	R	1.72	13.5 27.0 43.2 16.3 0.6	10.28 0.17 01/81 BR
LB2	A60371 C2796	2 AD	21.30 0.81	R	1.60	11.9 34.5 28.0 25.6 0.7	15.34 0.28 01/81 BR
LB2	A59379 C2797	2 AD	21.57 0.27	R	1.50	23.1 29.5 27.1 20.3 0.7	12.62 0.27 01/81 BR
LB2	A60371 C0006	2 AD	21.75 0.18	R	1.60	11.9 34.5 28.0 25.6 0.7	15.34 0.28 01/81 BR
COMPOSITE OF C2796 -96 C0006 -06							
LB2	A60371	2 AD	21.75 0.99	R	1.60	11.9 34.5 28.0 25.6 0.7	15.34 0.28 01/81 BR

REPORT T132-09

THREE COAL SYSTEM

PAGE 2 RUN AT 16.05 24 11 11 80

LAUNCESTON

COAL ANALYSIS TEST NO. 1 BY HOLE

ATP EL2080 LAUNCESTON

TENEMENT 2080

SEAM	US	SAMPLE	LAB	FIELD	TY	R	BASE	THICK	SIZE	FRACTION	YIELD	PROXIMATES	%	BY	WEIGHT	FUEL	S.E.	TOTAL	TEST	
					PE	B	DEPTH	-NESS	--	RAW	RD	IM	VM	ASH	FC	RATIO	MJ/KG	SULPHUR	DATE	LAB
*****14																				
LB2	A60372	C2798			2	AD	22.01	0.29		R	1.68	10.6	32.1	36.2	21.1	0.7	12.96	0.26	01/81	BP
LB2	A59380	C2799			2	AD	22.27	0.23		R	1.79	9.2	29.1	47.4	14.3	0.5	9.42	0.25	01/81	BP
LB2	A60373	C2800			2	AD	22.93	0.66		R	1.58	20.5	27.9	31.2	20.4	0.7	12.36	0.22	01/81	BP
LB2	A60374	C2801			2	AD	23.23	0.32		R	2.16	9.2	15.5	71.6	3.7	0.2	2.16	0.09	01/81	BP
LB2	A59381	C2802			2	AD	23.54	0.29		R	1.47	20.8	32.6	20.4	26.2	0.8	15.24	0.27	01/81	BP
LB2	A60374	C0007			2	AD	24.24	0.70		R	2.16	9.2	15.5	71.6	3.7	0.2	2.16	0.09	01/81	BP
COMPOSITE OF C2801 -01 C0007 -07																				
LB2	A60374				2	AD	24.24	1.02		R	2.16	9.2	15.5	71.6	3.7	0.2	2.16	0.09	01/81	BP
	A60375	C2803			2	AD	24.81	0.57		R	1.73	10.3	28.9	41.0	19.8	0.7	11.70	0.28	01/81	BP
	A60376	C2804			2	AD	26.20	1.39		R	1.71	17.0	25.1	43.7	14.2	0.6	8.08	0.22	01/81	BP
LB3	A59382	C2805			2	AD	26.54	0.34		R	1.49	19.6	32.6	22.7	25.1	0.8	15.04	0.29	01/81	BP
LB3	A60377	C2805			2	AD	27.55	1.02		R	1.49	22.7	29.7	26.6	21.0	0.7	13.46	0.20	01/81	BP
LB3	A60378	C2807			2	AD	28.05	0.49		R	1.64	16.8	27.2	37.2	18.8	0.7	11.46	0.22	01/81	BP
LB3	A59383	C2808			2	AD	28.37	0.32		R	1.50	20.1	30.5	24.7	24.7	0.8	14.18	0.28	01/81	BP
LB3	A60378	C0008			2	AD	28.57	0.20		R	1.64	16.8	27.2	37.2	18.8	0.7	11.46	0.22	01/81	BP
COMPOSITE OF C2807 -07 C0008 -08																				
LB3	A60378				2	AD	28.57	0.69		R	1.64	16.8	27.2	37.2	18.8	0.7	11.46	0.32	01/81	BP
LB3	A59384	C2809			2	AD	29.78	0.21		R	1.49	29.1	23.9	30.9	16.1	0.7	9.9	0.23	01/81	BP
LB3	A59384	C2810			2	AD	29.85	0.23		R	1.85	12.6	25.8	52.4	9.2	0.4	7.44	0.17	01/81	BP
LB3	A60379	C0009			2	AD	29.85	0.60		R	1.49	29.1	23.9	30.9	16.1	0.7	9.9	0.23	01/81	BP
COMPOSITE OF C2809 -09 C0009 -09																				
LB3	A60379				2	AD	29.85	0.81		R	1.49	29.1	23.9	30.9	16.1	0.7	9.9	0.23	01/81	BP
	A60380	C2811			2	AD	30.77	1.07		R	1.75	17.5	20.2	53.4	8.9	0.4	5.88	0.20	01/81	BP

REPORT T038-09

THREES COAL SYSTEM

PAGE 2

RUN AT 16.05 24 11/11/82

LAUNCESTON

COAL ANALYSIS TEST NO 1 BY HOLE

ATP EL2080
LAUNCESTON

TENEMENT 2080

SEAM	WS	LAB	SAMPLE FIELD	TY R	PE B	BASE THICK	SIZE FRACTION	RD	YIELD	PROXIMATES	% BY WEIGHT	FUEL	S. E.	TOTAL	TEST				
						DEPTH -NESS	RAW WT			IM	VM	ASH	FC	RATIO	CSN	MJ/KG	SULPHUR	DATE	LAB
DRILLHOLE C0004				*****															
LB2	A60372	C2798		2	AD	22.04	0.29	R	1.65	10.6	32.1	36.2	21.1	0.7		12.96	0.26	01/81	BP
LB2	A59380	C2799		2	AD	22.27	0.23	R	1.79	9.2	29.1	47.4	14.3	0.5		9.42	0.25	01/81	BP
LB2	A60373	C2800		2	AD	22.93	0.64	R	1.59	20.5	27.9	31.2	20.4	0.7		12.36	0.22	01/81	BP
LB2	A60374	C2801		2	AD	23.25	0.32	R	2.16	9.2	15.5	71.6	3.7	0.2		2.16	0.09	01/81	BP
LB2	A59381	C2802		2	AD	23.54	0.29	R	1.47	20.8	32.6	20.4	26.2	0.8		15.24	0.27	01/81	BP
LB2	A60374	C0007		2	AD	24.24	0.70	R	2.16	9.2	15.5	71.6	3.7	0.2		2.16	0.09	01/81	BP
COMPOSITE OF C2801 -01 C0007 -07																			
LB2	A60374			2	AD	24.24	1.02	R	2.16	9.2	15.5	71.6	3.7	0.2		2.16	0.09	01/81	BR
	A60375	C2803		2	AD	24.81	0.57	R	1.73	10.3	28.9	41.0	19.8	0.7		11.70	0.28	01/81	BP
	A60376	C2804		2	AD	26.20	1.39	R	1.71	17.0	25.1	43.7	14.2	0.6		8.08	0.22	01/81	BR
LB3	A59382	C2805		2	AD	26.54	0.34	R	1.49	19.6	32.6	22.7	25.1	0.8		15.04	0.29	01/81	BP
LB3	A60377	C2806		2	AD	27.54	1.02	R	1.49	22.7	29.7	26.6	21.0	0.7		13.46	0.20	01/81	BP
LB3	A60378	C2807		2	AD	28.05	0.49	R	1.64	16.8	27.2	37.2	18.8	0.7		11.46	0.22	01/81	BP
LB3	A59383	C2808		2	AD	28.37	0.32	R	1.50	20.1	30.5	24.7	24.7	0.8		14.18	0.28	01/81	BR
LB3	A60378	C0006		2	AD	28.57	0.20	R	1.64	16.8	27.2	37.2	18.8	0.7		11.46	0.22	01/81	BP
COMPOSITE OF C2807 -07 C0006 -08																			
LB3	A60378			2	AD	28.57	0.69	R	1.64	16.8	27.2	37.2	18.8	0.7		11.46	0.22	01/81	BP
LB3	A59384	C2809		2	AD	29.78	0.21	R	1.49	29.1	23.9	30.9	16.1	0.7		9.8	0.23	01/81	BP
LB3	A59384	C2810		2	AD	29.05	0.25	R	1.85	12.6	25.6	52.4	9.2	0.4		7.44	0.17	01/81	BP
LB3	A60379	C0009		2	AD	29.65	0.60	R	1.49	29.1	23.9	30.9	16.1	0.7		9.8	0.23	01/81	BR
COMPOSITE OF C2809 -09 C0009 -09																			
LB3	A60379			2	AD	29.65	0.81	R	1.49	29.1	23.9	30.9	16.1	0.7		9.80	0.23	01/81	BP
	A60380	C2811		2	AD	30.72	1.07	R	1.75	17.5	20.2	53.4	8.9	0.4		5.86	0.20	01/81	BP

REPORT TC52-09

THIERS COAL SYSTEM

PAGE 3

RUN AT 16:05:33 11/11/82

LAUNCESTON.

COAL ANALYSIS TEST NO 1 BY FOLE

ATP EL2080
LAUNCESTON

TENEMENT 2080

SEAM	SAMPLE	TY R	BASE THICK	SIZE	FRACTION			PROXIMATES	% BY	WEIGHT	FUEL	S. E.	TOTAL	TEST
NS	LAB FIELD	PE B	DEPTH -NESS	--	RAW WT	RD	YIELD	IN VM	ASH	FC	RATIO	CSN	MJ/KG	SULPHUR DATE LAB
DRILLHOLE C0004														

	A60381	C2812	2 AD	31.93	1.20	R	1.84	16.1	20.5	54.0	9.4	0.5	5.88	0.20 01/81 BR
	A60382	C2813	2 AD	33.10	1.17	R	1.61	24.9	21.2	42.9	11.0	0.5	7.20	0.20 01/81 BR
	A60383	C2814	2 AD	33.74	0.64	R	1.52	19.8	30.5	28.6	21.1	0.7	13.16	0.30 01/81 BR
	A60384	C2815	2 AD	38.37	1.20	R								01/81 BR
				NO ANALYSIS										
	A60385	C2816	2 AD	39.57	1.20	R	1.96			62.0				01/81 BR
	A60386	C2817	2 AD	39.96	0.39	R	1.85	9.3	24.6	51.0	15.1	0.6	9.00	0.23 01/81 BR
	A60387	C2818	2 AD	40.32	0.36	R	1.72	18.0	22.0	46.5	13.5	0.6	7.7	0.20 01/81 BR
	A59385	C2819	2 AD	40.57	0.25	R	1.72	14.6	25.3	41.5	18.6	0.7	9.78	0.23 01/81 BR
	A60387	C0010	2 AD	41.32	0.75	R	1.72	18.0	22.0	46.5	13.5	0.6	7.70	0.20 01/81 BR
COMPOSITE OF C2818 -18 C0010 -10														
	A60387		2 AD	41.32	1.11	R	1.72	18.0	22.0	46.5	13.5	0.6	7.70	0.20 01/81 BR
	A60388	C2820	2 AD	43.14	1.82	R	2.43	4.4	15.8	77.8	2.0	0.1	2.18	0.12 01/81 BR
DRILLHOLE C0019														

	A60325	C2746	2 AD	3.91	0.36	R	1.85	17.2	16.2	59.3	5.3	0.3	4.02	0.12 01/81 BR
	A59431	C2747	2 AD	4.08	0.17	R	1.82	14.1	22.1	52.3	11.5	0.5	6.74	0.21 01/81 BR
SA1	A60326	C2748	2 AD	4.80	0.72	R	1.48	29.2	23.2	33.7	13.9	0.6	8.16	0.25 01/81 BR
SA1	A60327	C2749	2 AD	5.09	0.29	R	2.25	5.8	16.0	73.4	4.8	0.3	2.92	0.13 01/81 BR
SA1	A60328	C2750	2 AD	5.37	0.28	R	1.61	20.2	27.5	37.0	15.3	0.6	10.36	0.25 01/81 BR
SA1	A59432	C2751	2 AD	5.67	0.30	R	1.45	25.4	30.5	25.9	18.2	0.6	12.38	0.32 01/81 BR
SA1	A60329	C2752	2 AD	6.88	0.84	R	1.49	14.8	37.5	19.1	28.2	0.7	17.76	0.36 01/81 BR
SA1	A59357	C2753	2 AD	6.85	0.27	R	1.30	19.0	37.7	13.6	29.7	0.6	18.32	0.35 01/81 BR

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REPORT T052-09

THIERS COAL SYSTEM

PAGE 4

RUN AT 16.05 44 11.11/82

LAUNCESTON

COAL ANALYSIS TEST NO. 1 BY HOLE

ATP EL2080
LAUNCESTON

TENEMENT 2080

SEAM	WS	LAB	SAMPLE FIELD	TY R PE B	BASE THICK DEPTH -NESS	SIZE FRACTION -- RAW NT	RD	YIELD	PROXIMATES % BY WEIGHT	FUEL FC	S. E. MJ/KG	TOTAL SULPHUR	TEST DATE	LAB		
									IM	VM	ASH	RATIO	CSN	DATE	LAB	
DRILLHOLE C0019 *****																
SA1	A60330	C2754		2 AD	7.38	0.53	R	1.45	25.7	30.5	16.9	26.9	0.9	15.50	0.29	01/81 BR
SA1	A60331	C2755		2 AD	7.74	0.36	R	1.59	13.0	34.1	24.8	28.1	0.8	16.30	0.31	01/81 BR
	A60332	C2756		2 AD	8.53	0.79	R	1.84	18.6	17.7	56.4	7.3	0.4	4.10	0.19	01/81 BR
	A59368	C2757		2 AD	8.83	0.30	R	1.81	8.1	28.5	49.3	14.1	0.5	9.80	0.30	01/81 BR
SA2	A60333	C2758		2 AD	10.09	1.25	R	1.76	9.1	30.3	42.2	18.4	0.6	11.70	0.28	01/81 BR
	A60334	C2759		2 AD	11.45	1.37	R	2.34			82.6					01/81 BF
SB1	A59369	C2760		2 AD	15.06	0.26	R	1.77	13.0	25.4	48.9	12.7	0.5	8.42	0.25	01/81 BR
SB2	A60335	C2761		2 AD	15.92	0.86	R	1.56	27.8	25.3	38.3	8.6	0.3	7.68	0.20	01/81 BR
	A60336	C2762		2 AD	16.55	0.63	R	1.65	26.1	19.9	45.4	8.6	0.4	5.88	0.14	01/81 BR
	A60337	C2763		2 AD	17.10	0.55	R	2.01	14.9	15.1	65.8	4.2	0.3	2.50	0.09	01/81 BF
	A60338	C2764		2 AD	17.68	0.51	R	1.95	17.4	14.7	65.6	2.3	0.2	1.90	0.16	01/81 BF
SB3	A60339	C2765		2 AD	18.00	0.32	R	1.82	9.2	27.9	45.7	17.2	0.6	10.36	0.28	01/81 BR
SB3	A59370	C2766		2 AD	18.25	0.25	R	1.69	16.0	25.6	41.8	16.6	0.6	9.54	0.29	01/81 BR
SB3	A60339	C0001		2 AD	19.21	0.94	R	1.82	9.2	27.9	45.7	17.2	0.6	10.36	0.28	01/81 BR
COMPOSITE OF C2765 -65 C0001 -01																
SB3	A60339			2 AD	19.21	1.28	R	1.82	9.2	27.9	45.7	17.2	0.6	10.36	0.28	01/81 BR
SB3	A60340	C2767		2 AD	20.12	0.91	R	2.47	4.5	16.0	77.9	1.6	0.1	1.94	0.11	01/81 BR
	A60341	C2768		2 AD	20.70	0.58	R	1.94			65.0					01/81 BF
SB4	A60342	C2769		2 AD	21.94	1.24	R	1.66	15.9	27.5	39.1	17.5	0.6	11.1	0.26	01/81 BR
SB4	A59371	C2770		2 AD	22.34	0.40	R	1.61	18.2	27.7	34.2	19.9	0.7	11.68	0.27	01/81 BR
SB4	A60342	C0002		2 AD	22.58	0.24	R	1.66	15.9	27.5	39.1	17.5	0.6	11.10	0.26	01/81 BR
COMPOSITE OF C2769 -69 C0002 -02																
SB4	A60342			2 AD	22.58	1.48	R	1.66	15.9	27.5	39.1	17.5	0.6	11.10	0.26	01/81 BR

628410

LAUNCESTON

COAL ANALYSIS TEST NO. 1 BY HOLE

ATP EL2080
LAUNCESTON

TENEMENT 2080

SEAM	WS	SAMPLE LAB	FIELD	TY R PE B	BASE DEPTH	THICKNESS	SIZE --	FRACTION RAW WT	RD	YIELD	PROXIMATES IM	VM	% BY WEIGHT ASH	FUEL FC	RATIO CSN	S. E. MJ/KG	TOTAL SULPHUR	TEST DATE	LAB
DRILLHOLE C0019																			

		A60343	C2771	2 AD	23.54	0.96		R	2.06				71.4					01/81	BR
		A60344	C2772	2 AD	25.11	1.00		R	2.11				76.7					01/81	BR
		A60355	C2773	2 AD	25.45	0.34		R	1.62		21.7	24.1	40.2	14.0	0.6	8.76	0.18	01/81	BR
		A59372	C2774	2 AD	25.74	0.29		R	2.04		10.6	18.7	64.6	6.1	0.3	4.20	0.13	01/81	BR
		A60355	C0003	2 AD	26.45	0.71		R	1.62		21.7	24.1	40.2	14.0	0.6	8.76	0.18	01/81	BR
COMPOSITE OF C2773 -73 C0003 -03																			
		A60355		2 AD	26.45	1.05		R	1.62		21.7	24.1	40.2	14.0	0.6	8.76	0.18	01/81	BR
SC1		A59373	C2775	2 AD	26.78	0.33		R	1.62		17.2	29.0	34.7	19.1	0.7	11.96	0.27	01/81	BR
SC1		A60356	C2776	2 AD	27.21	0.43		R	1.56		13.4	36.8	23.5	26.3	0.7	16.50	0.27	01/81	BR
SC1		A60357	C2777	2 AD	28.42	1.21		R	1.59		12.8	33.7	27.4	26.1	0.8	15.26	0.25	01/81	BR
SC1		A59374	C2778	2 AD	28.65	0.23		R	1.53		10.3	41.3	25.2	23.2	0.6	13.72	0.26	01/81	BR
SC1		A60358	C2779	2 AD	29.12	0.47		R	1.71		11.6	26.8	45.3	16.3	0.6	9.70	0.20	01/81	BR
SC1		A59375	C2780	2 AD	29.33	0.21		R	1.62		19.2	26.8	39.9	15.1	0.6	10.34	0.23	01/81	BR
SC1		A60359	C2781	2 AD	30.46	1.13		R	1.67		13.8	27.9	37.8	20.5	0.7	11.86	0.22	01/81	BR
		A60360	C2782	2 AD	32.34	1.78		R	2.40				82.9			0.2	0.05	01/81	BR
		A60361	C2783	2 AD	33.18	0.94		R	1.77		10.5	27.5	43.2	18.8	0.7	11.14	0.26	01/81	BR
DRILLHOLE C0021																			

		A60389	C2821	2 AD	8.61	0.37		R										01/81	BR
		A60390	C02822	2 AD	9.76	1.15		R	1.78		18.3	21.3	50.6	9.8	0.5	5.70	0.13	01/81	BR
DRILLHOLE C0022																			

		A60245	C2133	2 AD	8.84	0.13		R	2.01		16.8	21.7	33.3	3.2		2.82	0.11	01/81	BR

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LAUNCESTON

COAL ANALYSIS TEST NO. 1 BY HOLE

ATF EL2080
LAUNCESTON

TENEMENT 2080

SEAM	-----SAMPLE-----	TY R	BASE THICK	SIZE FRACTION	RD	YIELD	PROXIMATES % BY WEIGHT FUEL				S. E.	TOTAL TEST	TEST	
WS	LAB FIELD	PE B	DEPTH -NESS	--+	RAW WT		III	VM	ASH	FC	RATIO CSN	MJ/KG	SULPHUR	DATE LAB
	DRILLHOLE C0022													

	A60246 C2636	2 AD	9.19	0.35	R	1.90	9.6	23.6	56.0	10.8	0.5	6.84	0.23	01/81 BR
PB2	A59400 C2637	2 AD	9.57	0.38	R	1.59	20.8	27.7	35.1	16.4	0.6	10.80	0.29	01/81 BR
PB2	A60247 C2638	2 AD	9.90	0.33	R	1.78	7.4	30.2	42.7	19.7	0.7	11.90	0.28	01/81 BR
PB2	A60248 C2639	2 AD	10.64	0.74	R	1.62	20.1	26.3	37.2	16.4	0.6	10.50	0.23	01/81 BR
PB2	A60249 C2640	2 AD	11.32	0.68	R	1.66	10.6	32.6	36.4	20.4	0.6	13.60	0.20	01/81 BR
PB2	A59401 C2641	2 AD	11.64	0.32	R	1.56	19.9	28.4	34.7	17.0	0.6	10.90	0.23	01/81 BR
	A60250 C2642	2 AD	12.15	0.51	R	1.64	20.1	25.5	41.0	13.4	0.5	8.84	0.21	01/81 BR
PB3	A59402 C2643	2 AD	12.53	0.38	R	1.46	24.1	30.6	25.8	19.5	0.6	13.04	0.25	01/81 BR
PB3	A60251 C2644	2 AD	13.27	0.74	R	1.43	25.0	30.4	23.0	21.6	0.7	13.84	0.19	01/81 BR
PB3	A60252 C2645	2 AD	14.07	0.80	R	1.52	24.3	28.0	30.1	17.6	0.6	11.90	0.18	01/81 BR
PB3	A60253 C2646	2 AD	14.96	0.89	R	1.68	9.6	35.3	32.3	22.8	0.6	15.38	0.26	01/81 BR
PB3	A59403 C2647	2 AD	15.31	0.35	R	1.54	18.0	30.8	32.1	19.1	0.6	12.40	0.22	01/81 BR
PB3	A60254 C2648	2 AD	16.18	0.87	R	1.57	23.7	25.5	37.3	13.5	0.5	9.52	0.19	01/81 BR
PB3	A60255 C2649	2 AD	16.77	0.59	R	1.64	18.9	26.5	39.2	15.4	0.6	10.42	0.22	01/81 BR
	A59404 C2650	2 AD	17.26	0.49	R	1.79	15.8	21.1	51.7	11.4	0.5	6.56	0.19	01/81 BR
	A60256 C2651	2 AD	17.89	0.63	R	1.76	17.3	21.5	48.1	13.1	0.6	7.64	0.18	01/81 BR
	A60257 C2652	2 AD	18.32	0.43	R	2.50	3.2	11.2	84.3	1.3	0.1	0.10	0.05	01/81 BR
	A60258 C2653	2 AD	19.11	0.69	R	2.34			82.0					01/81 BR
	A60259 C2654	2 AD	19.70	0.59	R	2.42	4.4	12.9	81.0	1.7	0.1	1.00	0.06	01/81 BR
	A60260 C2655	2 AD	20.28	0.68	R	1.63	21.4	24.0	41.0	13.6	0.6	8.96	0.20	01/81 BR
	A60261 C2656	2 AD	21.11	0.73	R	1.92	14.7	19.0	59.3	7.0	0.4	4.82	0.12	01/81 BR
	A60262 C2657	2 AD	21.85	0.74	R	1.92	13.0	21.4	59.7	5.9	0.3	5.32	0.15	01/81 BR

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REPORT TC52-09

THIASS COAL SYSTEM

PAGE 7 RUN AT 16:06:34 11/11/82

LAUNCESTON.

COAL ANALYSIS TEST NO. 1 BY HOLE

ATP EL2090
LAUNCESTON.

TENEMENT 3080

SEAM	WS	SAMPLE LAB FIELD	TY R PE B	BASE THICK DEPTH -NESS	SIZE FRACTION --+	RAW WT	RD	YIELD	PROXIMATES IM VM	% BY WEIGHT ASH	FUEL FC RATIO	S. E. MJ/KG	TOTAL SULPHUR	TEST DATE	LAB
		DRILLHOLE C0023	*****												
PB4	A60263	C2658	2 AD	22.92	1.07	R	1.54	24.1	25.7	36.2	14.0	0.5	9.44	0.27	01/81 BR
PB4	A59405	C2659	2 AD	23.32	0.40	R	1.48	19.9	33.3	27.2	19.6	0.6	14.00	0.28	01/81 BR
PB4	A60264	C2660	2 AD	23.83	0.51	R	1.47	21.9	31.9	23.8	22.4	0.7	15.00	0.28	01/81 BF
PB4	A60265	C2661	2 AD	24.18	0.35	R	1.49	23.3	30.1	27.3	19.3	0.6	12.14	0.21	01/81 BR
PB4	A59406	C2662	2 AD	24.47	0.29	R	1.50	21.3	30.6	26.5	21.6	0.7	13.44	0.24	01/81 BR
	A60266	C2663	2 AD	25.23	0.69	R	1.60	25.0	21.2	43.2	10.6	0.5	7.56	0.15	01/81 BR
	A60267	C2664	2 AD	26.69	1.46	R	2.36			82.2					01/81 BF
	A60268	C2665	2 AD	27.65	0.96	R	3.14			74.1					01/81 BF
	A60269	C2666	2 AD	48.67	1.67	R	1.99	15.7	15.7	65.8	2.8	0.2	2.30	0.13	01/81 BR
PC4	A60270	C2667	2 AD	49.70	1.03	R	1.60	21.4	25.7	39.9	13.0	0.5	9.26	0.20	01/81 BR
PC4	A59407	C2668	2 AD	50.11	0.41	R	1.49	21.9	31.3	25.6	21.2	0.7	13.80	0.24	01/81 BF
PC4	A60271	C2669	2 AD	50.70	0.59	R	1.44	27.5	30.1	25.6	16.8	0.6	12.62	0.19	01/81 BR
PC4	A59408	C2670	2 AD	51.08	0.38	R	1.52	19.9	31.6	27.4	21.1	0.7	13.80	0.20	01/81 BR
PC4	A60272	C2671	2 AD	52.01	0.93	R	1.49	27.5	27.2	31.7	13.6	0.5	10.94	0.16	01/81 BR
PC4	A60273	C2672	2 AD	52.80	0.79	R	1.96	13.9	19.4	61.2	5.5	0.3	4.20	0.09	01/81 BR
PC4	A60274	C2673	2 AD	53.11	0.31	R	1.68	11.6	31.5	36.8	20.1	0.6	12.64	0.20	01/81 BR
PC4	A60275	C2674	2 AD	53.43	0.32	F	1.37	31.7	28.8	18.6	20.9	0.7	13.26	0.17	01/81 BR
PC4	A60274	C0025	2 AD	53.63	0.20	F	1.68	11.6	31.5	36.8	20.1	0.6	12.64	0.20	01/81 BR
COMPOSITE OF		C2673 -73	C0025 -25												
PC4	A60274		2 AD	53.63	0.51	R	1.68	11.6	31.5	36.8	20.1	0.6	12.64	0.20	01/81 BR
	A59410	C2675	2 AD	53.77	0.14	F	1.83	0.7	25.8	52.3	13.2	0.5	8.25	0.14	01/81 BR
	A60275	C2675	2 AD	54.52	0.75	F	1.81	20.5	25.8	39.8	14.2	0.6	9.75	0.14	01/81 BR

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LAUNCESTON

COAL ANALYSIS TEST NO. 1 BY HOLE

ATP EL2080
LAUNCESTON

TENEMENT 3080

SEAM	WE	SAMPLE	LAB	FIELD	TY R	PE B	BASE	THICK	SIZE	FRACTION	RD	YIELD	PROXIMATES	% BY WEIGHT	FUEL	S. E.	TOTAL	TEST						
						DEPTH		NESS	+	RAW WT			IM	VM	ASH	FC	RATIO	CSN	MJ/KG	SULPHUR	DATE	LAB		
DRILLHOLE C0022																								

		A59410	C0026		2 AD		54.73	0.21		R	1.85		8.7	25.8	52.3	13.2	0.5		8.28	0.14	01/81	BR		
COMPOSITE OF C2675 -75 C0026 -26																								
		A59410			2 AD		54.73	0.35		R	1.85		8.7	25.8	52.3	13.2	0.5		8.28	0.14	01/81	BR		
		A60275	C0027		2 AD		54.76	0.03		R	1.61		20.5	25.8	39.5	14.2	0.6		9.75	0.14	01/81	BR		
COMPOSITE OF C2676 -76 C0027 -27																								
		A60275			2 AD		54.76	0.88		R	1.61		20.5	25.8	39.5	14.2	0.6		9.75	0.14	01/81	BR		
		A60276	C2677		2 AD		55.04	0.28		R	2.22											01/81	BF	
		A60277	C2678		2 AD		60.15	1.95		R	2.15												01/81	BF
		A60278	C2679		2 AD		60.55	0.40		R	2.23		7.4	15.9	74.4	2.3	0.1		1.86	0.06	01/81	BR		
		A59411	C2680		2 AD		60.74	0.19		R	1.77		10.1	28.5	47.5	13.9	0.5		9.64	0.16	01/81	BR		
		A60279	C2681		2 AD		61.04	0.30		R	1.76		13.2	26.5	47.2	13.1	0.5		9.48	0.16	01/81	BR		
		A59411	C0028		2 AD		61.16	0.12		R	1.77		10.1	28.5	47.5	13.9	0.5		9.64	0.16	01/81	BR		
COMPOSITE OF C2680 -80 C0028 -28																								
		A59411			2 AD		61.16	0.31		R	1.77		10.1	28.5	47.5	13.9	0.5		9.64	0.16	01/81	BR		
		A60280	C2682		2 AD		62.19	0.76		R	1.77		17.2	22.1	49.5	11.2	0.5		7.34	0.13	01/81	BR		
		A60281	C2683		2 AD		63.07	0.88		R	1.79		19.9	17.9	54.0	8.2	0.5		5.06	0.10	01/81	BR		
		A60282	C2684		2 AD		63.55	0.48		R	1.96		14.1	19.5	59.2	7.2	0.4		4.46	0.10	01/81	BR		
DRILLHOLE C0032																								

PC1		A59412	C2686		2 AD		36.49	0.22		R	1.85		14.2	21.2	55.1	9.5	0.4		5.92	0.21	01/81	BR		
PC1		A60284	C2687		2 AD		37.21	0.72		R	1.77		16.6	22.2	49.0	12.2	0.5		7.44	0.22	01/81	BR		
PC1		A59412	C0015		2 AD		37.48	0.27		R	1.85		14.2	21.2	55.1	9.5	0.4		5.92	0.21	01/81	BR		
COMPOSITE OF C2686 -86 C0015 -15																								
PC1		A59412			2 AD		37.48	0.49		R	1.85		14.2	21.2	55.1	9.5	0.4		5.92	0.21	01/81	BR		

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REPORT TCS2-09

THIERS COAL SYSTEM

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RUN AT 16:05 55 11 11/88

LAUNCESTON

COAL ANALYSIS TEST NO. 1 BY HOLE

ATP EL2080
LAUNCESTON

TENEMENT 2080

SEAM	WS	SAMPLE LAB FIELD	TY R PE B	BASE DEPTH	THICKNESS	SIZE FRACTION	RD	YIELD	PROXIMATES IM	% VM	BY WEIGHT ASH	FUEL FC	RATIO CSN	S. E. MJ/KG	TOTAL SULPHUR	TEST DATE	LAB
		DRILLHOLE C0032	*****														
		A60285 C2689	2 AD	38.41	0.93	R	1.64		26.4	19.0	47.5	7.1	0.4	5.26	0.15	01/81	BR
		A60286 C2699	2 AD	38.71	0.30	R	2.09		11.5	16.4	68.6	3.5	0.2	2.88	0.08	01/81	BR
PC2		A60287 C2690	2 AD	39.76	0.63	R	1.65		28.6	19.4	47.7	4.3	0.2	5.58	0.10	01/81	BR
PC2		A59413 C2691	2 AD	39.94	0.18	R	1.67		14.9	28.0	38.0	19.1	0.7	10.98	0.23	01/81	BR
PC2		A60287 C0016	2 AD	40.46	0.52	R	1.65		28.6	19.4	47.7	4.3	0.2	5.58	0.10	01/81	BR
		COMPOSITE OF C2690 -90 C0016 -16															
PC2		A60287	2 AD	40.46	1.15	R	1.65		28.6	19.4	47.7	4.3	0.2	5.58	0.10	01/81	BR
PC2		A60288 C2692	2 AD	40.79	0.33	R	1.64		20.3	24.8	42.2	12.7	0.5	9.66	0.16	01/81	BR
PC2		A59414 C2693	2 AD	41.03	0.24	R	1.56		15.6	33.4	31.4	19.6	0.6	14.20	0.20	01/81	BR
PC2		A60289 C2694	2 AD	41.84	0.72	R	1.72		9.1	34.7	36.3	19.9	0.6	14.08	0.17	01/81	BR
PC2		A59415 C2695	2 AD	42.02	0.18	R	1.52		22.0	29.0	26.6	22.4	0.8	13.12	0.15	01/81	BR
PC2		A60290 C2696	2 AD	42.72	0.70	R	1.77		11.4	26.5	46.4	15.7	0.6	10.30	0.13	01/81	BR
PC2		A59416 C2697	2 AD	43.02	0.30	R	1.54		20.0	31.3	27.6	21.1	0.7	13.74	0.14	01/81	BR
PC2		A60291 C2698	2 AD	43.87	0.85	R	1.70		14.5	26.9	39.8	18.8	0.7	11.72	0.11	01/81	BR
		A60292 C2699	2 AD	44.49	0.56	R	1.59		27.6	20.1	42.0	10.3	0.5	7.14	0.07	01/81	BR
		A59417 C2700	2 AD	44.77	0.28	R	1.85		11.2	23.8	53.6	11.4	0.3	7.70	0.10	01/81	BR
PC3		A60293 C2702	2 AD	45.29	0.52	R	1.57		15.1	28.2	37.9	18.8	0.7	12.22	0.13	01/81	BR
PC3		A59418 C2701	2 AD	45.60	0.31	R	1.57		20.3	28.0	35.4	16.3	0.6	11.58	0.10	01/81	BR
PC3		A60293 C0017	2 AD	46.16	0.56	R	1.57		15.1	28.2	37.9	18.8	0.7	12.22	0.13	01/81	BR
		COMPOSITE OF C2702 -02 C0017 -17															
PC3		A60293	2 AD	46.16	1.38	R	1.57		15.1	28.2	37.9	18.8	0.7	12.22	0.13	01/81	BR
PC4		A60294 C2703	2 AD	47.52	0.60	R	1.78		18.7	18.0	56.3	7.1	0.4	4.64	0.07	01/81	BR
PC4		A59419 C2704	2 AD	48.26	0.44	R	1.93		14.1	18.4	59.5	8.0	0.4	4.70	0.07	01/81	BR

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REPORT TOS2-09

THIESS COAL SYSTEM

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RUN AT 16:07:05 11/11/82

LAUNCESTON.

COAL ANALYSIS TEST NO. 1 BY HOLE

ATP EL2080
LAUNCESTON

TENEMENT 3080

SEAM	SAMPLE	TY R	BASE THICK	SIZE FRACTION	PROXIMATES % BY WEIGHT FUEL	S. E.	TOTAL TEST
NO	LAB FIELD	PE B	DEPTH -NESS	RAW WT	RD YIELD	IM VM ASH FC RATIO CSN	MJ/KG SULPHUR DATE LAB
DRILLHOLE C0032 *****							
PC4	A60294	C0018	2 AD	48.31 0.05	R	1.79	18.7 18.0 56.2 7.1 0.4 4.64 0.07 01/81 BR
COMPOSITE OF C2703 -03 C0018 -18							
PC4	A60294		2 AD	48.31 0.65	R	1.79	19.7 18.0 56.2 7.1 0.4 4.64 0.07 01/81 BR
	A60295	C2705	2 AD	49.53 1.22	R	1.83	20.4 14.3 61.3 4.0 0.3 2.76 0.05 01/81 BR
	A60296	C2706	2 AD	50.21 0.68	R	2.18	11.4 12.8 74.1 1.7 0.1 0.68 0.03 01/81 BR
DRILLHOLE C0033 *****							
PB3	A60297	C2707	2 AD	8.68 0.55	R	1.56	25.3 24.1 37.1 13.5 0.6 9.62 0.25 01/81 BR
PB3	A59420	C2708	2 AD	9.10 0.42	R	1.44	24.4 31.8 24.9 18.9 0.6 13.68 0.24 01/81 BR
PB3	A60298	C0011	2 AD	9.36 0.26	R	1.44	18.2 32.4 25.9 23.5 0.7 15.16 0.17 01/81 BR
PB3	A59421	C2709	2 AD	9.90 0.54	R	1.57	22.1 26.1 36.1 15.7 0.6 10.32 0.14 01/81 BR
PB3	A60298	C2710	2 AD	10.32 0.42	R	1.44	18.2 32.4 25.9 23.5 0.7 15.16 0.17 01/81 BR
COMPOSITE OF C0011 -11 C2710 -10							
PB3	A60298		2 AD	10.32 0.68	R	1.44	18.2 32.4 25.9 23.5 0.7 15.16 0.17 01/81 BR
	A60299	C2711	2 AD	11.44 1.12	R	1.71	21.0 20.5 46.8 11.7 0.6 7.34 0.10 01/81 BR
PB4	A59422	C2712	2 AD	11.84 0.40	R	1.59	19.1 28.0 35.0 17.9 0.6 11.34 0.13 01/81 BR
PB4	A60300	C2713	2 AD	12.25 0.41	R	1.54	21.8 29.5 31.5 17.6 0.6 11.98 0.13 01/81 BR
PB4	A59423	C2714	2 AD	12.54 0.29	R	1.51	17.8 33.4 25.8 23.0 0.7 15.30 0.13 01/81 BR
PB4	A60301	C2715	2 AD	12.94 0.40	R	1.57	18.5 30.7 30.8 20.0 0.7 13.46 0.15 01/81 BR
PB4	A59424	C2716	2 AD	13.22 0.28	R	1.52	19.8 30.1 28.2 21.9 0.7 15.84 0.13 01/81 BR
PB4	A60302	C2717	2 AD	13.66 0.44	R	1.51	22.1 29.2 28.3 20.4 0.7 12.72 0.11 01/81 BR
	A60303	C2718	2 AD	14.63 0.97	R	2.08	7.4 19.6 63.3 9.7 0.5 6.02 0.09 01/81 BR
	A60304	C2719	2 AD	23.87 0.61	R	2.21	74.3 01/81 BR

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REPORT T052-09

THIASS COAL SYSTEM

PAGE 11

RUN AT 16:07:12 11/11/92

LAUNCESTON.

COAL ANALYSIS TEST NO. 1 BY HOLE

ATP EL2080
LAUNCESTON

TENEMENT 2080

SEAM	-----SAMPLE-----	TY R	BASE THICK	SIZE FRACTION			PROXIMATES	% BY WEIGHT	FUEL	S E.	TOTAL	TEST	
NS	LAB FIELD	PE D	DEPTH -NESS	--+	RAW WT	RD	IM VM	ASH	FC RATIO	CSN	MU/KG	SULPHUR	DATE LAB
	DRILLHOLE C0033												

	A60305 C2720	2 AD	24.55	0.68	R	1.77	12.9	27.3	40.1	19.7	0.7	11.86	0.15 01/81 BR
	A59425 C2721	2 AD	24.89	0.34	R	1.72	15.2	24.4	43.7	16.7	0.7	9.50	0.10 01/81 BR
	A60306 C2722	2 AD	25.74	0.32	R	1.89	8.9	23.8	51.8	15.5	0.7	8.80	0.10 01/81 BR
	A60307 C2723	2 AD	26.34	0.60	R	2.07	8.4	19.8	62.0	9.8	0.5	6.12	0.07 01/81 BR
	A60308 C2724	2 AD	27.09	0.75	R	2.51	4.6	12.4	81.3	1.7	0.1	0.46	0.03 01/81 BR
	A60309 C2725	2 AD	28.86	1.77	R	2.27	7.5	14.7	73.1	4.7	0.3	2.78	0.04 01/81 BR
PC2	A60310 C2726	2 AD	29.45	0.59	R	1.79	11.7	27.5	43.0	17.8	0.6	11.38	0.10 01/81 BR
PC2	A60311 C2727	2 AD	29.89	0.22	R	1.52	10.7	35.2	25.4	28.7	0.8	17.40	0.16 01/81 BR
PC2	A59426 C2728	2 AD	32.14	0.35	R	1.48	20.7	32.1	23.1	24.1	0.8	14.88	0.09 01/81 BR
PC2	A60312 C2729	2 AD	32.76	0.62	R	2.02	10.9	26.7	45.4	17.0	0.6	10.46	0.09 01/81 BR
PC2	A59427 C2730	2 AD	33.10	0.34	R	1.67	12.7	29.3	35.4	22.6	0.8	13.18	0.09 01/81 BR
PC2	A60313 C2731	2 AD	33.57	0.47	R	1.81	10.7	26.4	42.9	20.0	0.8	11.26	0.09 01/81 BR
	A59428 C2732	2 AD	33.98	0.30	R	1.83	8.5	25.8	48.2	17.5	0.7	9.94	0.07 01/81 BR
	A60314 C2733	2 AD	34.62	0.64	R	1.81	10.9	25.3	48.4	15.4	0.6	9.95	0.10 01/81 BR
	A60315 C2734	2 AD	35.84	1.22	R	2.12			66.7				01/81 BR
PC3	A60316 C2735	2 AD	36.46	0.62	R	1.55	15.3	34.0	26.5	24.2	0.7	16.24	0.18 01/81 BR
PC3	A59429 C2736	2 AD	36.74	0.28	R	1.48	23.8	29.7	26.0	20.5	0.7	13.30	0.12 01/81 BR
PC3	A60317 C2737	2 AD	37.63	0.89	R	1.66	13.7	29.8	37.2	19.3	0.6	12.88	0.16 01/81 BR
	A60318 C2738	2 AD	38.77	1.14	R	1.99	8.5	23.0	56.5	11.6	0.5	7.38	0.11 01/81 BR
	A60319 C2739	2 AD	40.84	2.07	R	2.29	5.0	18.8	72.0	4.2	0.2	3.06	0.07 01/81 BR
	A60320 C2740	2 AD	45.90	0.90	R	2.27			76.0				01/81 BR
PC3	A60321 C2741	2 AD	46.32	0.42	R								01/81 BR

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REPORT T053-09

THIESS COAL SYSTEM

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LAUNCESTON

COAL ANALYSIS TEST NO. 1 BY HOLE

ATP EL2080
LAUNCESTON

TENEMENT 2080

SEAM	LAB	SAMPLE FIELD	TY R PE B	BASE DEPTH	THICK -NESS	SIZE --+	FRACTION RAW WT	RD	YIELD	PROXIMATES IM	% VM	BY WEIGHT ASH	FUEL FC	RATIO CSN	S. E. MJ/KG	TOTAL SULPHUR	TEST DATE	LAB
DRILLHOLE C0033			*****															
MISSING																		
PDO	A59430	C2742	2 AD	46.57	0.25		R	1.59		15.6	29.6	33.8	21.0	0.7	13.26	0.17	01/81	BR
PDO	A60321	C0012	2 AD	47.01	0.44		R										01/81	BF
MISSING																		
PDO	A60322	C2743	2 AD	47.95	0.94		R	1.58		25.3	21.7	39.0	15.0	0.7	8.38	0.09	01/81	BR
	A60323	C2744	2 AD	48.86	0.78		R	1.99				66.0					01/81	BR
	A60324	C2745	2 AD	49.70	0.84		R										01/81	BP
NO ANALYSIS																		
DRILLHOLE C021R			*****															
	A60391	C2B23	2 AD	7.14	2.14		R										01/81	BF
NO ANALYSIS																		
	A60392	C2B24	2 AD	7.92	0.54		R										01/81	BF
NO ANALYSIS																		
	A60393	C2B25	2 AD	9.61	1.69		R	2.25				78.6					01/81	CF
LA1	A60394	C2B26	2 AD	10.16	0.55		R	1.53		25.1	26.1	31.5	17.3	0.7	10.52	0.20	01/81	BP
LA1	A59386	C2B27	2 AD	10.41	0.28		R	1.68		9.8	33.1	36.1	21.0	0.6	13.62	0.25	01/81	BR
LA1	A60394	C0019	2 AD	10.97	0.51		R	1.53		25.1	26.1	31.5	17.3	0.7	10.52	0.20	01/81	BR
COMPOSITE OF C2B26 -26 C0019 -19																		
LA1	A60394		2 AD	10.97	1.07		R	1.53		25.1	26.1	31.5	17.3	0.7	10.52	0.20	01/81	BR
	A60395	C2B29	2 AD	11.73	0.76		R	1.75		25.3	13.4	56.1	5.2	0.4	3.32	0.12	01/81	BR
LA2	A60396	C2B30	2 AD	13.20	1.47		R	1.52		16.6	35.5	22.4	25.5	0.7	15.74	0.28	01/81	BR
LA2	A59387	C2B31	2 AD	13.50	0.30		R	1.63		20.9	26.2	36.8	16.1	0.6	8.88	0.19	01/81	BR
LA2	A60396	C0020	2 AD	13.52	0.08		R	1.92		16.6	35.5	22.4	25.5	0.7	15.74	0.28	01/81	BP
COMPOSITE OF C2B30 -30 C0020 -20																		
LA2	A60396		2 AD	13.52	1.55		R	1.92		16.6	35.5	22.4	25.5	0.7	15.74	0.28	01/81	BR

LAUNCESTON.

COAL ANALYSIS TEST NO. 1 BY HOLE

ATP EL2080
LAUNCESTON

TENEMENT 2080

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SEAM	-----SAMPLE-----	TY R	BASE THICK	SIZE FRACTION		PROXIMATES	% BY WEIGHT	FUEL	S. E.	TOTAL	TEST
NS	LAB FIELD	PE B	DEPTH -NESS	-->	RAW WT	RD	YIELD	IM VM ASH FC RATIO CSN	MJ/KG	SULPHUR	DATE LAB
DRILLHOLE C021R *****											
	A60397 C2832	2 AD	14.40	0.82	R	1.69		27.9 16.3 50.2 5.6 0.3	3.68	0.15	01/81 BR
LA3	A60398 C2833	2 AD	15.18	0.78	R	1.66		19.4 28.7 38.8 17.1 0.6	11.22	0.23	01/81 BR
LA3	A60399 C2834	2 AD	15.50	0.32	R	1.61		18.7 27.1 36.7 17.5 0.6	10.76	0.18	01/81 BR
LA3	A59388 C2835	2 AD	15.82	0.32	R	1.59		19.3 27.9 33.1 19.7 0.7	11.94	0.19	01/81 BR
LA3	A60399 C0021	2 AD	16.45	0.63	R	1.61		18.7 27.1 36.7 17.5 0.6	10.76	0.18	01/81 BR
COMPOSITE OF C2834 -34 C0021 -21											
LA3	A60399	2 AD	16.45	0.95	R	1.61		18.7 27.1 36.7 17.5 0.6	10.76	0.18	01/81 BR
LA3	A60400 C2836	2 AD	16.96	0.45	R	1.71		14.2 27.4 42.3 16.1 0.6	10.06	0.17	01/81 BR
LA3	A60401 C2837	2 AD	18.30	1.34	R	1.45		18.9 36.2 16.6 28.3 0.8	18.72	0.21	01/81 BR
LA3	A59389 C2838	2 AD	18.62	0.32	R	1.53		23.1 28.2 27.6 21.1 0.7	12.58	0.16	01/81 BR
	A60402 C2839	2 AD	19.11	0.49	R	1.61		28.3 18.6 44.6 8.5 0.5	6.2	0.10	01/81 BR
	A60403 C2840	2 AD	20.34	0.84	R	1.66		26.6 17.7 46.4 9.3 0.5	5.38	0.11	01/81 BR
LA4	A60404 C2841	2 AD	20.42	0.08	R	1.65		14.7 28.8 35.4 21.1 0.7	12.34	0.24	01/81 BR
LA4	A59390 C2842	2 AD	20.79	0.37	R	1.37		38.6 23.1 21.4 16.9 0.7	10.14	0.15	01/81 BR
LA4	A60404 C0022	2 AD	21.37	0.58	R	1.65		14.7 28.8 35.4 21.1 0.7	12.34	0.24	01/81 BR
COMPOSITE OF C2841 -41 C0022 -22											
LA4	A60404	2 AD	21.37	0.66	R	1.65		14.7 28.8 25.4 21.1 0.7	12.34	0.24	01/81 BR
	A60405 C2843	2 AD	22.06	0.45	R	1.65		27.5 17.0 47.7 7.8 0.5	5.14	0.14	01/81 BR
	A60406 C2844	2 AD	23.80	1.74	R	2.35		79.1			01/81 BR
	A60407 C2845	2 AD	24.75	0.95	R	1.80		23.9 18.5 53.4 4.2 0.2	3.6	0.17	01/81 BR
	A60408 C2846	2 AD	36.07	0.56	R						01/81 BR
	A60409 C2847	2 AD	40.33	1.82	R						01/81 BR
LB1	A60410 C2848	2 AD	44.93	0.71	R	1.88		14.4 33.3 28.0 25.3 0.6	15.70	0.21	01/81 BR

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REPORT TC52-09

THIERS COAL SYSTEM

PAGE 14 RUN AT 16 07 29 11/11/82

LAUNCESTON.

COAL ANALYSIS TEST NO. 1 BY HOLE

ATP EL2080
LAUNCESTON

TENEMENT 2080

SEAM	WS	SAMPLE LAB	FIELD	TY R PE B	BASE DEPTH	THICK-NESS	SIZE FRACTION --	RAW WT	RD	YIELD	PROXIMATES IM	% BY WEIGHT VM	FUEL ASH	FC	RATIO	CSN	S. E. MJ/KG	TOTAL SULPHUR	TEST DATE	LAB
DRILLHOLE C021R *****																				
LB1		A59391	C2849	2 AD	45.32	0.34	R		1.65		13.4	29.1	37.0	20.5	0.7		12.24	0.21	01/81	BR
LB1		A60410	C0023	2 AD	46.07	0.75	R		1.58		14.4	32.3	28.0	25.3	0.8		15.70	0.21	01/81	BR
COMPOSITE OF C2848 -48 C0023 -23																				
LB1		A60410		2 AD	46.07	1.46	R		1.58		14.4	32.3	28.0	25.3	0.8		15.70	0.21	01/81	BR
		A60411	C2850	2 AD	46.87	0.80	R		1.77		23.8	14.6	56.7	4.9	0.3		2.24	0.08	01/81	BR
		A60413	C2852	2 AD	48.17	0.53	R		1.59		28.8	18.4	42.4	10.4	0.6		6.78	0.14	01/81	BR
LB2		A59392	C2853	2 AD	48.53	0.36	R		1.62		15.7	28.6	36.4	19.3	0.7		12.26	0.26	01/81	BR
LB2		A60414	C2854	2 AD	49.39	0.86	R		1.55		22.3	27.3	32.7	17.7	0.6		11.64	0.28	01/81	BR
LB2		A60415	C2855	2 AD	49.78	0.39	R		1.82		16.2	20.5	55.2	8.1	0.4		5.80	0.19	01/81	BR
LB2		A60416	C2856	2 AD	50.29	0.51	R		1.43		28.5	29.3	22.5	19.7	0.7		13.08	0.31	01/81	BR
LB2		A59393	C2857	2 AD	50.57	0.28	R		1.51		22.1	28.9	28.6	20.4	0.7		12.72	0.29	01/81	BR
LB2		A60417	C2858	2 AD	51.58	1.01	R		1.50		29.8	21.6	35.8	12.8	0.6		7.20	0.19	01/81	BR
LB2		A60418	C2859	2 AD	51.81	0.23	R		1.60		24.6	22.6	39.4	13.4	0.6		8.68	0.19	01/81	BR
LB2		A59394	C2860	2 AD	52.21	0.40	R		1.49		23.0	28.9	25.1	23.0	0.8		13.38	0.26	01/81	BR
LB2		A60418	C0024	2 AD	52.88	0.67	R		1.60		24.6	22.6	39.4	13.4	0.6		8.68	0.19	01/81	BR
COMPOSITE OF C2859 -59 C0024 -24																				
LB2		A60418		2 AD	52.88	0.90	R		1.60		24.6	22.6	39.4	13.4	0.6		8.68	0.19	01/81	BR
LB2		A60419	C2861	2 AD	53.69	0.81	R		1.63		22.8	23.2	42.0	12.0	0.5		8.46	0.18	01/81	BR
LB2		A59395	C2862	2 AD	53.97	0.28	R		1.65		13.8	28.6	38.4	19.2	0.7		12.30	0.22	01/81	BR
		A60420	C2863	2 AD	54.55	0.59	R		1.74		10.1	28.1	45.6	16.2	0.6		10.72	0.21	01/81	BR
		A60421	C2864	2 AD	56.24	1.69	R		1.68		22.4	19.2	47.7	9.7	0.5		5.92	0.16	01/81	BR
		A60422	C2865	2 AD	58.06	1.39	R		1.64		22.9	22.3	41.3	13.6	0.6		8.24	0.18	01/81	BR
		A60423	C2866	2 AD	59.57	1.51	R		1.83		17.8	18.3	56.8	6.9	0.4		4.56	0.15	01/81	BR

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REPORT TCS2-09

THIERS COAL SYSTEM

PAGE 15 RUN AT 16:07:51 11/11/82

LAUNCESTON

COAL ANALYSIS TEST NO. 1 BY HOLE

ATP EL2080
LAUNCESTON

TENEMENT 2080

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SEAM	WS	-----SAMPLE----- LAB FIELD	TY R PE B	BASE THICK DEPTH -NESS	SIZE FRACTION -- RAW WT	RD	YIELD	PROXIMATES IM VM	% BY WEIGHT ASH	FUEL FC RATIO	CSN	S. E. MJ/KG	TOTAL SULPHUR	TEST DATE	LAB
		DRILLHOLE C030R *****													
		A60424 C2867	2 AD	27.79 0.75	R	2.02			59.1					01/81	BF
		A60425 C2868	2 AD	29.30 0.94	R	2.37			80.5					01/81	BF
		A60426 C2869	2 AD	31.15 1.95	R	2.25		5.0 16.0	73.2	5.8	0.4	3.18	0.07	01/81	BR
PC2		A60427 C2870	2 AD	31.62 0.47	R	1.62		19.4 25.8	37.5	17.3	0.7	10.44	0.09	01/81	BR
PC2		C2871	2 AD	31.81 0.19 NO ANALYSIS	R									01/81	BF
PC2		A59396 C2872	2 AD	32.09 0.28	R	1.55		18.7 29.8	31.3	20.2	0.7	12.68	0.12	01/81	BR
PC2		A60429 C2873	2 AD	32.92 0.83	R	1.83		8.0 28.4	46.4	17.2	0.6	11.42	0.12	01/81	DR
PC2		A60430 C2874	2 AD	33.20 0.28	R	2.01			60.3					01/81	BF
PC2		A60431 C2875	2 AD	34.00 0.66	R	1.68		10.5 31.8	33.2	24.5	0.8	14.62	0.11	01/81	BR
PC2		A59397 C2876	2 AD	34.22 0.22	R	1.60		18.1 25.8	36.4	19.7	0.8	11.30	0.08	01/81	BR
PC2		A60431 C0013	2 AD	34.64 0.42	R	1.68		10.5 31.8	33.2	24.5	0.8	14.62	0.11	01/81	DR
		COMPOSITE OF C2873 -73 C0013 -13													
PC2		A60431	2 AD	34.64 1.25	R	1.68		10.5 31.8	33.2	24.5	0.8	14.62	0.11	01/81	BR
PC2		A60432 C2877	2 AD	35.82 1.18	R	1.76		8.3 28.2	43.2	20.3	0.7	12.14	0.11	01/81	BR
PC2		A60433 C2878	2 AD	36.46 0.64	R	1.82			43.6					01/81	BF
PC2		A60434 C2879	2 AD	36.79 0.33	R	1.85		7.9 26.4	49.6	16.1	0.6	10.48	0.11	01/81	BR
PC2		A60434 C0014	2 AD	37.15 0.12	R	1.85		7.9 26.4	49.6	16.1	0.6	10.48	0.11	01/81	BF
		COMPOSITE OF C2879 -79 C0014 -14													
PC2		A60434	2 AD	37.15 0.45	R	1.85		7.9 26.4	49.6	16.1	0.6	10.48	0.11	01/81	BR
		A60435 C2881	2 AD	38.42 1.27	R	2.07		9.0 18.7	63.6	8.7	0.5	5.22	0.07	01/81	DR
		A60436 C2882	2 AD	39.67 1.23	R	1.58		18.1 30.4	31.1	20.4	0.7	13.78	0.15	01/81	DR

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REPORT TC52-09

LAUNCESTON

THIERS COAL SYSTEM

COAL ANALYSIS TEST NO 1 BY RONE

PAGE 16 RUN AT 14:03 15 11 11/82

ATP EL2080
LAUNCESTON

TENEMENT 2080

*** END OF REPORT TC52-09 ***

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APPENDIX 9EL 20/80 LAUNCESTON

Detailed Reserve Calculations

- 9A Loatta Deposit
- 9B Pipers Lagoons Deposit
- 9C Celbourne Deposit

048

TABLE 9

RESERVE CALCULATIONS EL20/80 LAUNCESTON

LOATTA DEPOSIT - INDICATED AND INFERRED RESERVES

SEAM	CUMULATIVE COAL THICKNESS (m)				INDICATED RESERVES IN SITU COAL			
	RANGE m	VALUE USED m	AREA m ² x 10 ⁶	COAL VOLUME m ³ x 10 ⁶	RD gm/cc	RESERVE STATUS	TONNES x 10 ⁶	SEAM TOTAL TONNES x 10 ⁶
LAT	1.5 - 2	1.5	1.07	1.61	1.30	II	2.09	2.56
	2 - 3	2	0.18	0.36	1.30	II	0.47	
LA2	1.5 - 2	1.5	1.02	1.53	1.30	II	1.99	2.35
	2 - 3	2	0.14	0.28	1.30	II	0.36	
LA3	1.5 - 2	1.5	1.11	1.67	1.27	II	2.11	6.79
LA3	2 - 3	2	1.33	2.66	1.27	II	3.38	
LA3	3 - 4	3	0.29	0.87	1.27	II	1.10	
LA3	4 - 5	4	0.04	0.16	1.27	II	0.20	
LB1	1.5 - 2	1.5	0.56	0.84	1.33	I	1.12	8.19
LB1	2 - 3	2	0.76	1.52	1.33	I	2.02	
LB1	3 - 4	3	0.72	2.15	1.33	I	2.87	
LB1	4 - 5	4	0.41	1.64	1.33	I	2.18	
LB2	1.5 - 2	1.5	0.49	0.74	1.32	I	0.97	16.89
LB2	2 - 3	2	0.55	1.10	1.32	I	1.45	
LB2	3 - 4	3	0.33	0.99	1.32	I	1.31	
LB2	4 - 5	4	0.38	1.52	1.32	I	2.01	
LB2	5 - 6	5	1.0	5.0	1.32	I	6.60	
LB2	6 - 7	6	0.34	2.04	1.32	I	2.69	
LB2	7 - 8	7	0.11	0.77	1.32	I	1.02	
LB2	8 - 9	8	0.08	0.64	1.32	I	0.84	
LB2	1.5 - 2	1.5	0.21	0.32	1.32	Inferred	0.42	
LB2	2 - 3	2	0.29	0.58	1.32	Inferred	0.77	
LB3	1.5 - 2	1.5	0.42	0.63	1.3	I	0.82	8.15
LB3	2 - 3	2	1.74	3.48	1.3	I	4.52	
LB3	3 - 4	3	0.72	2.16	1.3	I	2.81	
LB3	1.5 - 2	1.5	0.30	0.45	1.3	II	0.59	2.05
LB3	2 - 3	2	0.56	1.12	1.3	II	1.46	
LC1	1.5 - 2	1.5	2.10	3.15	1.35	II	4.25	6.83
LC1	2 - 3	2	0.79	1.58	1.35	II	2.13	
LC1	3 - 4	3	0.11	0.33	1.35	II	0.45	
LC2	1.5 - 2	1.5	0.38	0.57	1.2	II	0.68	0.68
LC3	1.5 - 2	1.5	0.82	1.23	1.2	II	1.48	1.48
TOTALS						I		33.23
						II		22.74
						I & II		55.97

APPENDIX 9B

TABLE 10

RESERVE CALCULATIONS EL20/80 LAUNCESTON

PIPERS LAGOONS DEPOSIT - INDICATED RESERVES

SEAM	CUMULATIVE COAL THICKNESS (m)				INDICATED RESERVES IN SITU COAL			
	RANGE m	VALUE USED m	AREA m ² x 10 ⁶	COAL VOLUME m ³ x 10 ⁶	RD gm/cc	RESERVE STATUS	TONNES x 10 ⁶	SEAM TOTAL TONNES x 10 ⁶
PA0	1.5 - 2	1.5	1.27	1.9	1.3	II	2.48	2.48
PBI	1.5 - 2	1.5	0.42	0.63	1.33	II	0.84	0.84
PB2	1.5 - 2	1.5	1.38	2.07	1.33	II	2.75	2.75
PB3	1.5 - 2	1.5	1.53	2.30	1.30	I	2.98	8.91
PB3	2 - 4	2	0.23	0.46	1.30	I	0.60	
PB3	2 - 3	2	1.57	3.14	1.30	I	4.08	
PB3	4 - 5	4	0.24	0.96	1.30	I	1.25	
PB4	1.5 - 2	1.5	1.29	1.94	1.32	I	2.55	8.38
PB4	2 - 3	2	1.94	3.88	1.32	I	5.12	
PB4	3 - 4	3	0.18	0.54	1.32	I	0.71	
PC1	1.5 - 2	1.5	0.48	0.72	1.2	II	0.86	0.86
PC2	1.5 - 2	1.5	0.61	0.92	1.33	I	1.22	5.77
PC2	2 - 3	2	1.53	3.06	1.33	I	4.07	
PC2	4 - 5	4	0.09	0.36	1.33	I	0.48	
PC3	1.5 - 2	1.5	0.63	0.95	1.33	II	1.26	5.24
PC3	2 - 3	2	0.86	1.72	1.33	II	2.29	
PC3	3 - 4	3	0.33	0.99	1.33	II	1.32	
PC3	4 - 5	4	0.07	0.28	1.33	II	0.37	
PC4	1.5 - 2	1.5	1.56	2.34	1.36	II	3.18	7.66
PC4	2 - 5	2	0.21	0.42	1.36	II	0.57	
PC4	5 - 6	5	0.15	0.75	1.36	II	1.02	
PC4	2 - 3	2	0.36	0.72	1.36	II	0.98	
PC4	3 - 4	3	0.32	0.96	1.36	II	1.31	
PC4	4 - 5	4	0.11	0.44	1.36	II	0.60	
TOTALS						I II I & II		23.06 19.83 42.89

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APPENDIX 9C

TABLE 11

RESERVE CALCULATIONS EL20/80 LAUNCESTON

SELBOURNE DEPOSIT - INDICATED AND INFERRED RESERVES

SEAM	CUMULATIVE COAL THICKNESS (m)				INDICATED RESERVES IN SITU COAL			
	RANGE m	VALUE USED m	AREA m ² x 10 ⁶	COAL VOLUME m ³ x 10 ⁶	RD gm/cc	RESERVE STATUS	TONNES x 10 ⁶	SEAM TOTAL TONNES x 10 ⁶
SA1	1.5 - 2	1.5	1.26	1.89	1.31	I	2.48	9.57 Small
SA1	2 - 3	2	2.0	4.0	1.31	I	5.24	
SA1	3 - 4	3	0.47	1.41	1.31	I	1.85	
						Inferred	Small	
SA2	1.5 - 2	1.5	1.30	1.95	1.39	I	2.71	4.18 Small
SA2	2 - 3	2	0.53	1.06	1.39	I	1.47	
						Inferred	Small	
SB4	1.5 - 2	1.5	1.39	2.09	1.33	II	2.77	2.77
SC1	1.5 - 2	1.5	1.1	1.65	1.32	II	2.18	2.18
TOTALS						I		13.75
						II		4.95
						I & II		18.70
						Inferred		Small

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APPENDIX 10

EL 20/80 LAUNCESTON

Weighted Average Coal Quality

Tables 13 to 16 Inclusive

NOTE TO APPENDIX 10

1. Cored holes are assumed to have equal areas of influence over their respective deposits
2. Coal seams are a minimum of 1.5 metres thick, and may contain stone bands up to 0.5 metres thick, provided that the dry basis ash of the seam is less than 50%
3. Weighted average coal quality was calculated on an "as analysed", or air dried basis and then converted to in situ and dry basis results.
4. The following equation was used to calculate in situ relative densities from air dried results:-

$$RD(T) = 1 - RD(ad) \frac{IM}{100} + (RD(ad) - 1) \frac{TM}{100}$$

RD(T)	Relative Density In situ
RD (ad)	Relative Density Air Dried Basiss
IM	Inherent Moisture
TM	Total Moisture

APPENDIX 10

TABLE 13

EL20/80 LAUNCESTONWEIGHTED AVERAGE COAL QUALITY
OF INDIVIDUAL SEAMS
(Air Dried Basis)

SEAM	RELATIVE DENSITY gm/cc	INHERENT MOISTURE %	VOLATILE MATTER %	ASH %	FIXED CARBON %	SPECIFIC ENERGY MJ/kg	TOTAL SULPHUR %
LA1	1.55	21.69	27.66	32.49	18.12	11.21	0.16
LA2	1.54	17.37	33.84	24.95	23.83	14.52	0.24
LA3	1.57	17.90	30.26	31.12	20.83	13.31	0.20
LA4	1.55	22.32	26.98	30.88	19.76	11.64	0.21
LB1	1.63	15.85	30.26	33.42	22.20	13.40	0.31
LB2	1.66	15.50	27.68	38.22	18.07	11.21	0.28
LB3	1.60	16.23	30.44	32.49	20.83	13.06	0.28
LC1	1.76	9.90	29.20	43.3	17.60	11.58	0.30
PA0	1.76	9.30	27.40	44.60	18.70	11.06	0.27
PB2	1.64	15.65	29.11	37.14	18.08	11.67	0.24
PB3	1.57	17.94	29.99	32.65	19.12	12.82	0.19
PB4	1.61	15.29	30.98	33.22	20.29	13.41	0.16
PC2	1.70	11.74	28.21	41.15	18.84	11.91	0.13
PC3	1.67	11.82	30.48	36.81	20.54	13.31	0.16
PC4	1.59	22.09	27.98	34.60	15.98	11.18	0.18
SA1	1.65	14.23	29.22	37.50	20.15	11.76	0.31
SA2	1.79	8.56	29.49	43.58	18.30	11.48	0.30
SB4	1.65	16.37	27.54	38.09	18.0	11.22	0.26
SC1	1.62	13.57	31.15	33.36	21.98	13.10	0.24

APPENDIX 10

TABLE 14

EL20/80 LAUNCESTON

WEIGHTED AVERAGE SEAM QUALITYOF INDIVIDUAL SEAMS
(DRY BASIS)

SEAM	VOLATILE MATTER %	ASH %	FIXED CARBON %	SPECIFIC ENERGY MJ/kg	TOTAL SULPHUR %	INSITU RESERVES TONNES x 10 ⁶
LAT	35.40	41.59	23.19	14.35	0.20	2.56
LA2	40.95	30.19	28.83	17.57	0.29	2.35
LA3	36.92	37.67	25.41	16.24	0.24	6.80
LB1	36.01	39.77	26.42	15.95	0.37	8.19
LB2	32.66	45.10	21.32	13.25	0.33	18.07
LB3	36.22	38.66	24.79	15.54	0.33	10.19
LCT	32.41	48.06	19.54	12.85	0.33	6.83
PA0	30.14	44.60	20.57	11.06	0.27	2.48
PB2	34.64	49.06	21.52	12.17	0.30	2.75
PB3	36.59	39.83	23.33	15.64	0.23	8.91
PB4	36.56	39.20	23.94	15.82	0.19	8.38
PC2	31.88	46.50	21.29	13.46	0.15	5.77
PC3	34.44	41.60	23.21	15.04	0.18	5.24
PC4	31.62	39.10	18.06	12.63	0.20	7.66
SA1	34.19	43.88	23.58	13.76	0.36	9.57
SA2	32.14	47.50	19.95	12.51	0.33	4.18
SB4	33.05	45.71	21.60	13.46	0.31	2.77
SC1	36.13	38.70	25.50	15.20	0.28	2.18

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APPENDIX 10

TABLE 15

EL20/80 LAUNCESTON

WEIGHTED AVERAGE INSITU SEAM QUALITY

SEAM	RELATIVE DENSITY gm/cc	TOTAL MOISTURE %	VOLATILE MATTER %	ASH %	FIXED CARBON %	SPECIFIC ENERGY MJ/kg	TOTAL SULPHUR %	INSITU RESERVES TONNES x 10 ⁶
LA0	1.28	49.74	18.77	18.60	12.89	8.07	0.13	11.71
LBO	1.32	48.05	17.98	21.99	11.98	7.58	0.18	36.45
LCO	1.35	45.65	17.52	25.98	10.85	6.95	0.18	6.83
PA0	1.33	48.13	15.62	25.42	10.83	6.30	0.17	2.48
PBO	1.31	46.82	18.21	20.27	14.70	7.76	0.11	20.04
PC0	1.35	45.38	18.08	23.21	13.33	7.52	0.10	18.61
SA0	1.33	46.39	17.85	24.01	11.75	7.11	0.19	13.75
SBO	1.33	47.40	17.35	24.0	11.25	7.07	0.16	2.77
SC0	1.32	45.50	19.62	21.02	13.86	8.25	0.15	2.18

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APPENDIX 10TABLE 16EL20/80 LAUNCESTONWEIGHTED AVERAGE SEAM QUALITY

(DRY BASIS)

SEAM	VOLATILE MATTER %	ASH %	FIXED CARBON %	SPECIFIC ENERGY MJ/kg	TOTAL SULPHUR %	INSITU RESERVES TONNES x 10 ⁶
LAO	37.40	37.03	25.61	16.09	0.24	11.71
LBO	34.41	42.10	23.44	14.50	0.34	36.45
LCO	32.41	48.06	19.54	12.85	0.33	6.83
PAO	30.14	44.60	20.57	11.06	0.27	2.48
PBO	36.31	40.83	23.34	15.24	0.22	20.04
PCO	32.60	42.22	20.57	13.61	0.18	18.61
SAO	33.57	44.98	22.48	13.38	0.35	13.75
SBO	33.05	45.71	21.60	13.46	0.31	2.77
SCO	36.13	38.70	25.50	15.20	0.28	2.18

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APPENDIX 11

EL 20/80 LAUNCESTON

Table 18 Piezometric Measurements.

NOTES TO APPENDIX 11

1. The location and installation of piezometers is reported in Appendix 8 of Ellis (1982b).
2. The piezometer measurements in Table 18 fluctuate. This occasionally occurs in landslip areas monitored by the Tasmanian Department of Mines, (written comm. W.L. Matthews).
3. The readings for piezometer R081 P1 are not precise as it is difficult to measure the water level of this piezometer.

The low readings were from when the piezometer has been allowed to flow freely before measurement and the higher readings when flow from the piezometer has been confined.

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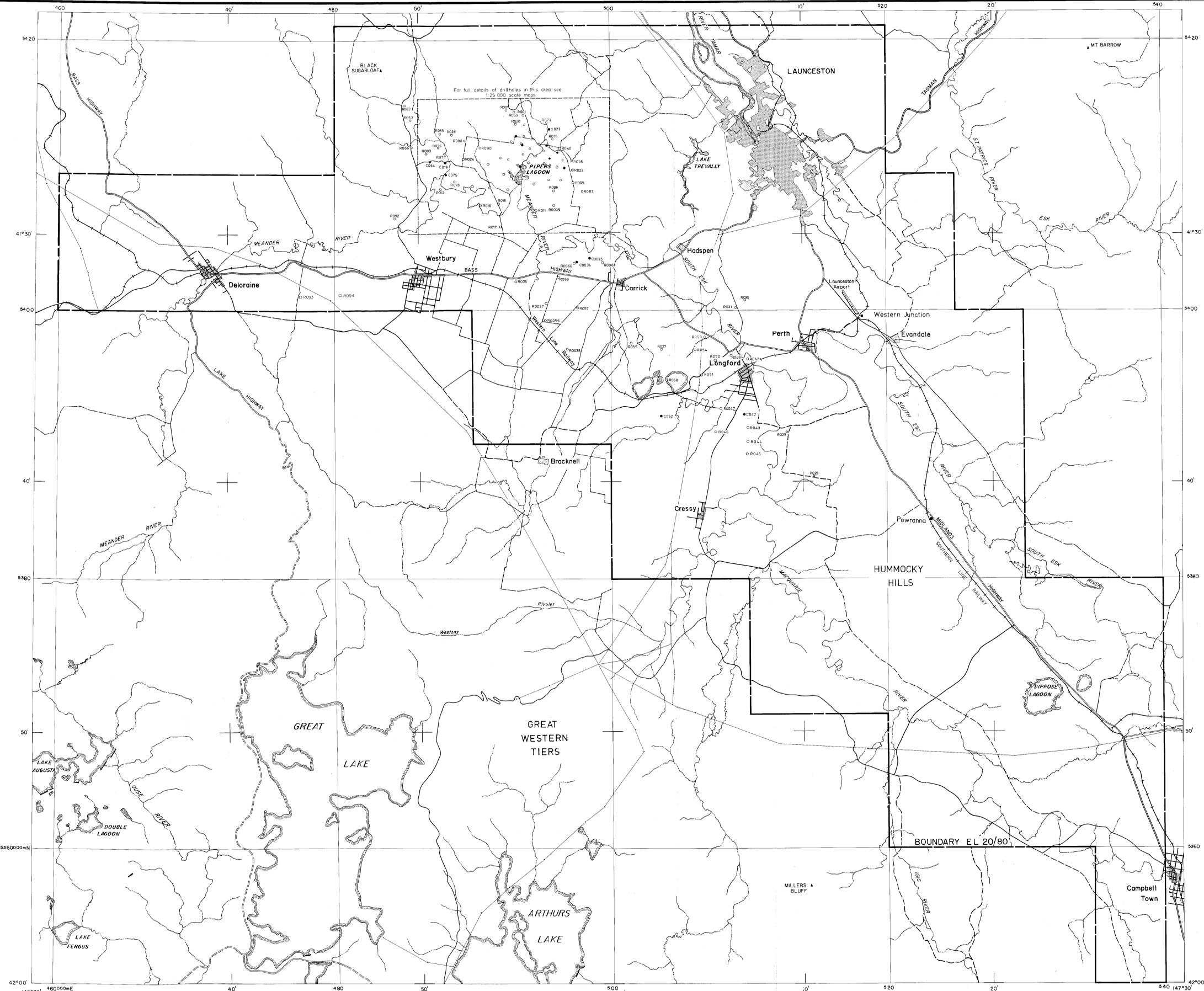
TABLE 18

EL 20/80 LAUNCESTON

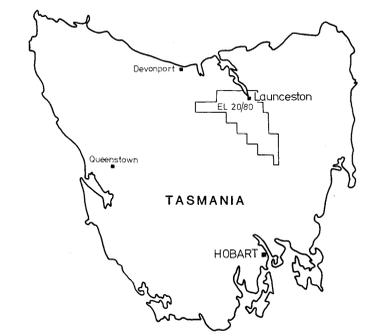
PIEZOMETRIC MEASUREMENTS

Piezometer Site	Date Piezometer Measured					
	29.6.82	28.7.82	26.8.82	28.9.82	19.10.82	8.12.82
RO 64	6.10	5.97	6.55	6.57	6.25	5.86
CO 64	2.13	2.05	2.29	1.82	2.18	2.54
CO 75	0.04	+0.14	+0.08	+0.11	+0.05	0.41
RO 81 P1	+1.98	+2.29	+2.74	+0.91	+2.59	+1.22
	Approx	Approx	Approx	Approx	Approx	Approx
RO 81 P2	+0.25	+0.27	+0.25	+0.25	+0.24	+0.25
CO 20 P1	1.03	1.70	1.09	1.12	1.12	1.22
CO 20 P2	1.73	1.38	1.28	1.23	1.21	1.14
RO 86 P	2.85	2.46	2.27	2.15	2.07	2.17
CO 67 P1	2.53	2.52	2.54	2.50	2.46	2.53
CO 67 P2	3.40	3.35	3.35	3.38	3.33	3.25
CO 71 P1	1.50	1.52	1.69	1.59	1.64	1.64
CO 71 P2	4.65	3.07	3.10	3.15	2.96	3.40
CO 71 P	Blocked	-	-	-	-	-

NOTE All piezometric readings are below ground level except where + prefixes the reading. In such cases the water level is above ground level.



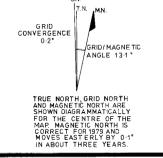
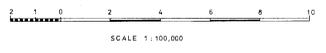
LOCALITY MAP



LEGEND

- CSR drillhole, coal cored.
- CSR drillhole, chip sampled.

Compiled from Tasmania 1:100 000 Topographic Survey Series 8215, 8216, 8215, St Patrick's, 8314 South Esk, 8214, Meander Edition 3 1979.



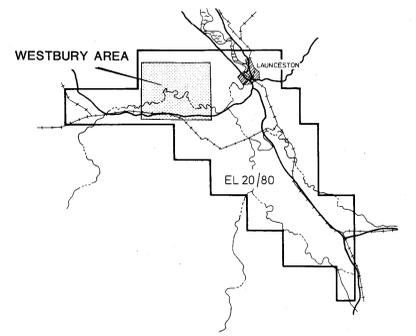
LEGEND

- HIGHWAY SEALED, UNSEALED
- ROAD SEALED, UNSEALED
- RAILWAY
- POWER TRANSMISSION LINE

CSR Limited Coal Division		EXPLORATION AND EVALUATION GROUP		CSR	
DRAWN	B. A. W.	DATE	JULY '81	SCALE	1:100 000
CHECKED				FIGURE	2
REVISED	S. M. C.	DATE	June '82	DRAWING No.	70020-7
EL20/80 LAUNCESTON			628 061		
LOCATION OF EXPLORATION					

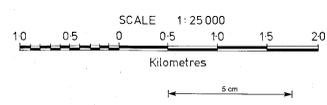
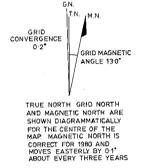


- LEGEND**
- Highway, sealed road
 - Unsealed road, vehicular track, lane
 - Railway
 - Homestead
 - Drain
 - C033 CSR drillhole coal cored
 - R009 CSR drillhole chip sampled
 - Deposit Outline
 - Prospect Outline
 - Outline of Basement Rock



KEY SHEET DIAGRAM
(TASMANIAN 1:25000 TOPO. SERIES)

PARKHAM	BRIDGENORTH	LAUNCESTON
DELRINE	WESTBURY	PROSPECT



CSR Limited		EXPLORATION AND EVALUATION GROUP		
DRAWING	DATE	EL 20/80 LAUNCESTON		SCALE 1:25000
A. Y.	Sept '82	WESTBURY AREA		FIGURE 3
CHECKED		BROWN COAL DEPOSITS & PROSPECTS		DRAWING No. 70020-72
REVISED				