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McElroy Bryan Geological Services Pty Limited

739001

95-3808

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**RELINQUISHMENT REPORT
RETENTION LICENCE
8813
TASMANIA**

**MICROFILMED
FICHE No. 013823-**

RL8813		
12 DEC 1995		
SEE	FOLIO 76	

Report prepared by

McELROY BRYAN GEOLOGICAL SERVICES PTY LTD

for

CORNWALL COAL COMPANY N.L.

95-3808

PART RELINQUISHMENT REPORT 1995
ST PAULS RIVER RL 8813 -
CORNWALL COAL CO - BRYAN, J H

December 1995

J.H. Bryan



R.L. 8813

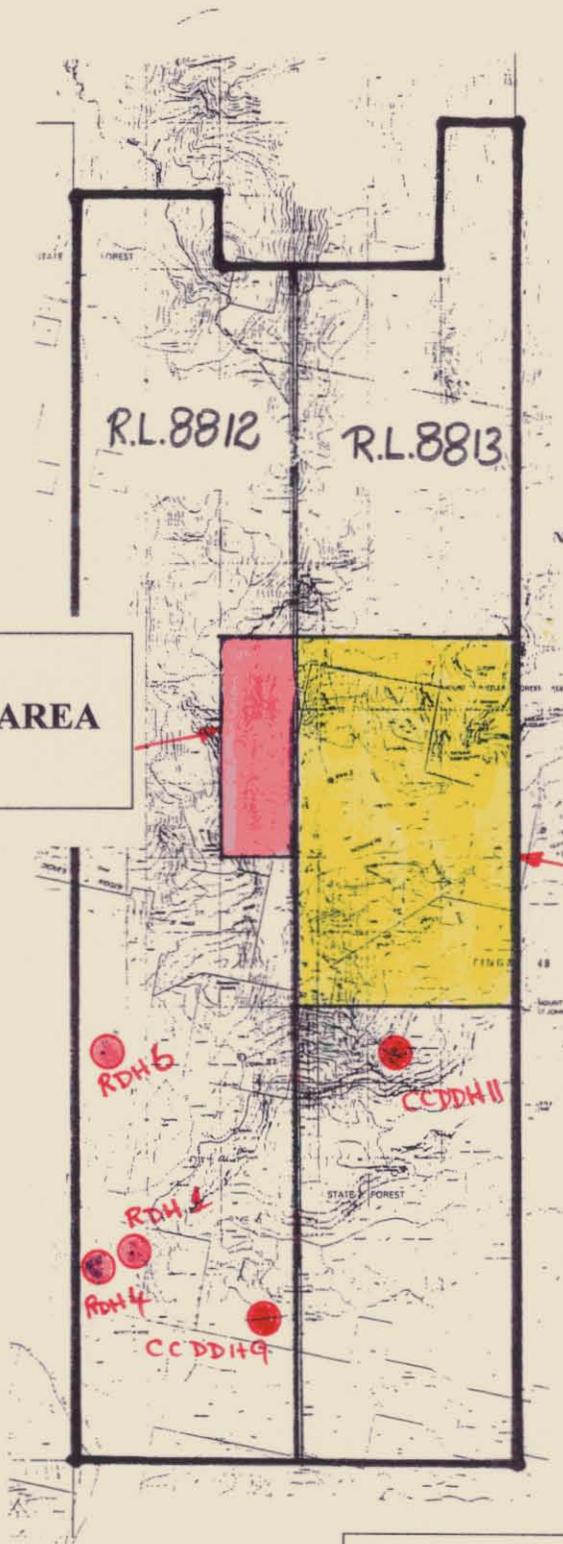
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**RELINQUISHMENT REPORT
CORNWALL COAL CO. N.L.
DECEMBER 1995**

This area is adjacent to R.L.8812 and of the 50km² only 15km² are to be retained, as shown on Figure A1. The drilling by the Department of Mines extended south into R.L.8813 and holes 45, 57, 59 and 77 provide data on the Triassic coal measures.

To the south of the retained area Cornwall Coal drilled St. Pauls DDH11 in 1984. A coal seam at 148.23m was sampled and analysed. The drill log and the analyses are included as Appendix A. It is difficult to correlate the coal seam in DDH11 with seams intersected in holes drilled further north by the Department of Mines.

In the area being relinquished the coal seams are generally thin and discontinuous under substantial cover of dolerite and scree.

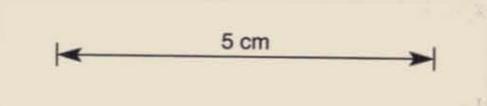


R.L. 8812
RETAINED AREA
3km²

R.L. 8813
RETAINED AREA
15km²

RDH4 HOLE DRILLED BY
● CORNWALL COAL N.L.

FIGURE A1
R.L.8812 & R.L.8813
LOCHABER
SCALE 1:100,000
DECEMBER 1995





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APPENDIX A

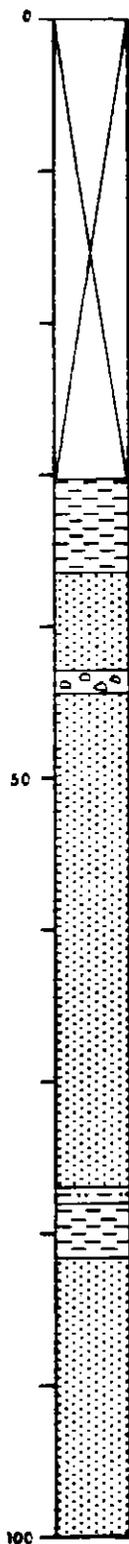
**R.L.8813
DRILL LOGS
ST PAULS RIVER DDH11**

CORNWALL COAL COMPANY N.L.

St Pauls River

DDH 11

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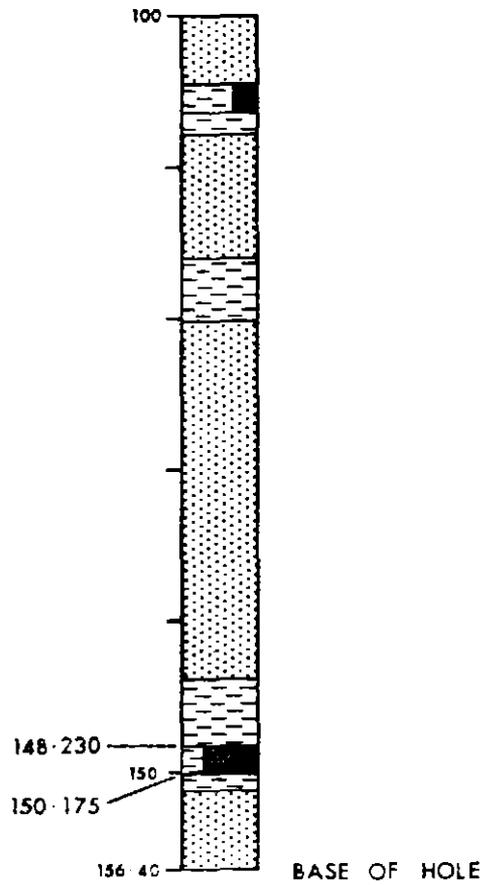
5 cm

CORNWALL COAL COMPANY N.L.

St Pauls River

DDH 11

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5 cm

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CORNWALL COAL ST PAULS RIVER D.D.H. 11

<u>Location:</u> Mt St John North	<u>Logged by:</u> J.H. Bryan
<u>AMG Co-ordinates:</u> E 588 400	<u>Drilled by:</u> Stacpoole Drilling
N 5373 500	
<u>Collar R.L.:</u> 500 m	<u>Commenced:</u> 31.10.84
<u>Total Depth:</u> 156.40 m	<u>Completed:</u> 10.11.84

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
NON-CORE TRICONE ROLLER BIT - DOLERITE SCREE	30.35	30.35	
CLAYSTONE, grey, reddish brown and greenish grey	1.30	31.65	
CLAYSTONE, light grey, soft, badly fretted in core box	2.79	34.44	
CLAYSTONE, grey green and grey, soft	1.96	36.40	
SANDSTONE, grey/green, clayey, soft gradational contact with unit above	1.16	37.56	
SANDSTONE, greenish grey, medium to coarse, lithic, greenish colour changes to grey and sandstone becomes coarse grained at 40.70 m	5.24	42.80	
CONGLOMERATE, grey/green, grading to coarse sandstone, lithic, numerous claystone clasts and fewer hard pellets and granules	1.64	44.44	
CLAYSTONE, grey/green, soft	0.24	44.68	

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CORNWALL COAL ST PAULS RIVER D.D.H. 11

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
SANDSTONE, grey, medium/coarse with occasional pebble bands and sporadic claystone clasts up to 20 cm across	9.525	54.205	
CLAYSTONE, grey/green, soft	2.555	56.760	
SANDSTONE, grey, medium grained, lithic, with conglomeratic phases up to 1.3 m thick	19.730	76.490	
<u>COAL</u> , dull and bright	0.065	76.555	
SANDSTONE, grey, medium grained, lithic	0.315	76.870	
CLAYSTONE, grey/brown, soft	0.040	76.910	
SANDSTONE, grey, medium grained, lithic	0.025	76.935	
MUDSTONE, black and grey/brown, soft	1.125	78.060	
CLAYSTONE, grey, soft, with siltstone interbeds and minor coaly lenses	3.530	81.590	
SANDSTONE, grey, lithic, fine to medium grained with some claystone interbeds	21.110	102.700	
<u>COAL</u> , dull and bright	0.045	102.745	
SANDSTONE, grey, medium, lithic with coaly lenses and some claystone clasts	1.220	103.965	

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CORNWALL COAL ST PAULS RIVER D.D.H. 11

	<u>Estimated Thickness</u> (m)	<u>Estimated Depth to Base of Stratum</u> (m)	<u>Remarks</u>
SILTSTONE, brown, hard with numerous coaly partings and/or wisps - disturbed bedding	0.170	104.135	
SANDSTONE, grey, medium, lithic	0.625	104.760	
<u>COAL</u> , dull with minor bright bands	0.360	105.120	
CLAYSTONE, grey, soft	0.280	105.400	
CLAYSTONE, brown, soft	0.060	105.460	
CLAYSTONE, grey, soft	0.680	106.140	
<u>COAL</u> , dull with minor bright bands	0.170	106.310	
CLAYSTONE, grey/brown, hard	0.025	106.335	
<u>COAL</u> , dull with minor bright bands	0.130	106.465	
MUDSTONE, black, coaly in part	0.320	106.785	
CLAYSTONE, grey and brown, soft	0.770	107.555	
SANDSTONE, grey, fine grained, lithic	0.110	107.665	
CLAYSTONE, grey, soft	0.240	107.905	
SANDSTONE, grey, lithic, fine to medium, massive	8.255	116.160	
CLAYSTONE AND CLAYEY SANDSTONE, grey/green	1.370	117.530	

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CORNWALL COAL ST PAULS RIVER D.D.H. 11

	<u>Estimated Thickness (m)</u>	<u>Estimated Depth to Base of Stratum (m)</u>	<u>Remarks</u>
CLAYSTONE, black, grey and grey/ brown, soft	1.400	118.930	
CLAYSTONE, grey/brown with sandy and silty interbeds	0.800	119.730	
SANDSTONE, grey, fine, lithic	0.270	120.000	
CLAYSTONE, grey with some carbonaceous lenses	0.580	120.580	
SANDSTONE, grey, lithic, fine at top but grading to medium and coarse towards the base - includes irregular coaly fragments, wisps and occasional pebbly bands	22.510	143.090	
<u>COAL</u> , dull and bright	0.090	143.180	
CLAYSTONE, grey with coaly partings and lenses	1.820	145.000	
CLAYSTONE, dark brown to buff coloured, ? tuffaceous and with occasional carbonaceous and coaly bands	2.000	147.000	
<u>COAL</u> , dull with minor bright bands	0.140	147.140	
CLAYSTONE, dark brown to buff, as for 2.000 m unit above	0.620	147.760	
CLAYSTONE, black, coaly in part	0.130	147.890	

CORNWALL COAL ST PAULS RIVER D.D.H. 11

	<u>Estimated Thickness</u> (m)	<u>Estimated Depth to Base of Stratum</u> (m)	<u>Remarks</u>
CLAYSTONE, grey or buff coloured, soft	0.340	148.230	Very poor roof
<u>COAL</u> , dull with minor claystone bands	0.250	148.480)
)
CLAYSTONE, grey/brown, soft	0.070	148.550)
)
<u>COAL</u> , dull to stony	0.395	148.945) PLY 1
, dull with minor bright bands	0.300	149.245)
)
CLAYSTONE, grey and brown, soft	0.200	149.445) Thickness:
) 1.945m
<u>COAL</u> , dull	0.105	149.550)
)
CLAYSTONE, black, coaly in part	0.315	149.865)
)
<u>COAL</u> , dull	0.310	150.175)
)
CLAYSTONE, grey/buff, hard, carbonaceous at top	0.225	150.400	
CLAYSTONE, black, coaly	0.365	150.765	
<u>COAL</u> , bright	0.045	150.810	
CLAYSTONE, dark grey/brown with coaly laminae and penny bands	0.260	151.070	
<u>COAL</u> , bright	0.030	151.100	
CLAYSTONE, black, carbonaceous	0.140	151.240	
SANDSTONE, grey, fine grained at top, grading down to medium/coarse, lithic at base of hole	5.160	156.400	

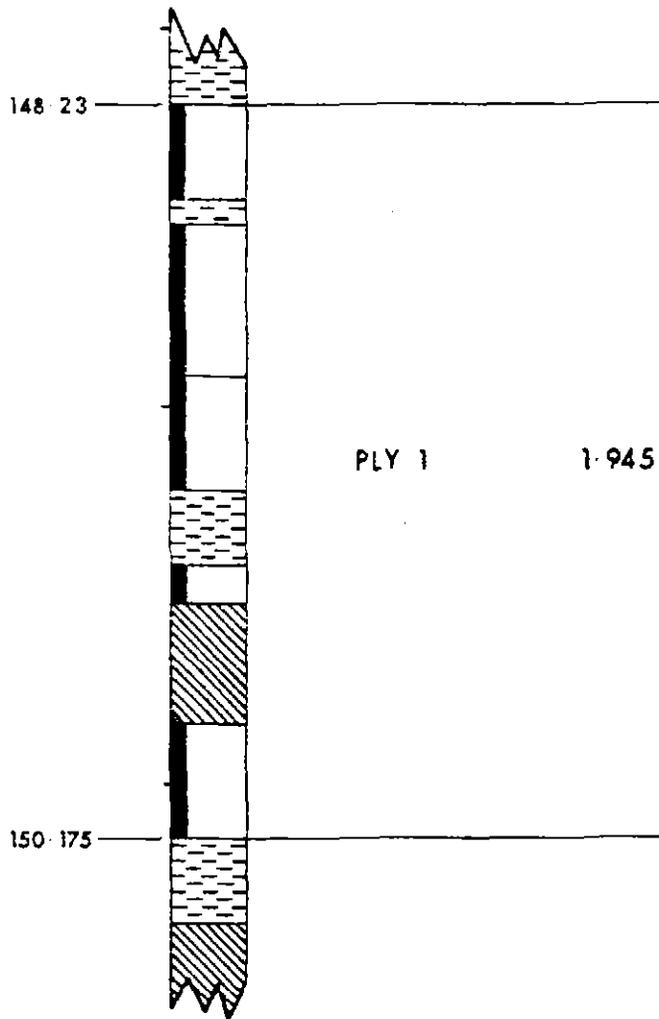
BASE OF HOLE

CORNWALL COAL COMPANY N.L.

St Pauls River

739012

DDH 11



5 cm

739013



Cornwall Coal St Pauls River DDH 11, Ply 1
from 148.23m to 150.175m; Thickness: 1.945m



SGS Australia Pty. Ltd.

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REPORT NO : SL 2882

INTRODUCTION

The following samples were received at SGS Sydney Laboratory on 16/11/84;

Cornwall Coal Company	DDH 14	Ply 3
" " "	DDH 14	Ply 4
" " "	DDH 16	Ply 1
" " "	St. Paul's River	
	DDH 11	Ply 1

The samples were prepared and analysed as requested by letter JHB : AJ 15/11/84, and as discussed by telephone with Dr. J. Bryan.

Raw coal samples were analysed for relative density and proximate analysis;

Float / Sink separation of plus 0.5mm material
(except DDH 14 Ply 4)

Float 1.60 samples were analysed for relative density, proximate analysis, sulphur, specific energy;

cumulative float 1.70 samples were similarly analysed for DDH16 and DDH14 Ply 3.

Results are tabulated on pages 3 - 6 incl.

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**SGS Australia Pty. Ltd.**

REPORT NO: SL 2882

CORNWALL COAL COMPANY

ST. PAUL'S RIVER DDH 11 - Pty 1

RAW COAL

Mass Received		5.600 kg
Relative Density		1.84
Moisture	% (air dried)	5.5
Ash	% (air dried)	53.4
Volatile Matter	% (air dried)	17.5
Fixed Carbon	% (air dried)	23.6

	<u>Mass %</u>	<u>Ash%</u>
20 x 0.5mm	96.8	53.2 (calc)
- 0.5mm	3.2	54.1
	<u>100.0</u>	<u>53.2 (calc)</u>

Float / Sink Separation of 20 x 0.5mm Material

	<u>Fractional</u>		<u>Cumulative</u>	
	<u>Mass%</u>	<u>Ash%</u>	<u>Mass%</u>	<u>Ash%</u>
Floats 1.60	34.1	21.5	34.1	21.5
S 1.60 - F 1.70	7.4	37.8	41.5	24.4
Sinks 1.70	58.5	73.6	100.0	53.2

F 1.60
Material

Yield	%	34.1
Relative Density		1.47
Moisture	% (Air Dried)	3.6
Ash	% (Air Dried)	21.5
Volatile Matter	% (Air Dried)	28.9
Fixed Carbon	% (Air Dried)	46.0
Sulphur	% (Air Dried)	0.44
Specific Energy	Mj/kg	24.94
	(Air Dried)	



This Laboratory is registered by the National Association of Testing Authorities, Australia. The data reported herein have been obtained in accordance with the terms of registration.

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COLIN MEADS
MANAGER - LABORATORIES