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PROGRESS REPORT TO 21-8-81
EXPLORATION LICENCE 31/80

VICTOR PETROLEUM & RESOURCES

HIDDEN FILE

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PROGRESS REPORT TO 21. 8. 81EXPLORATION LICENCE 31/80**A. INTRODUCTION**

Exploration activities during the three month period were centred on the Woodbury area, and consisted of a diamond drilling program, an open hole drilling program, geological logging (core and cuttings), geophysical logging of the drill holes, sampling and analysis of all coal seams, and surveying of drill hole collar sites.

All this information is presently being compiled in to sections and plans to enable the calculation of coal reserves.

Inclement weather, and consequent wet surface conditions, caused the suspension of drilling on the Woodbury Coal Project in late July.

B. DRILLING PROGRAMS**1. Diamond Drilling**

26 holes, totalling 1880.49m of diamond drilling, were completed during the period, of which 210.16m was precollaring, and 1670.33m was cored drilling.

The majority of holes were cored with HQ wireline gear, with 2 holes cored partly and 1 hole entirely with NQ wireline gear.

2. Rotary/Percussion Drilling

11 holes, totalling 903.00m of open hole drilling, were completed during the period.

All drill hole collar elevations and co ordinates are shown in Table 1; drill hole collar positions are depicted in the attached drill hole location plan. Total drilling amounted to 2783.49m.

C. GEOLOGICAL LOGGING

All 37 holes drilled during the period were lithologically logged, amounting to 2783.49m. Written and graphic logs of the 26 diamond drill holes are contained in Appendix 1, and written logs of the 11 open holes are contained in Appendix 3.

D. GEOPHYSICAL LOGGING**1. Diamond Drill Holes**

11 holes, totalling 824.65m, were caliper, gamma-gamma density, natural gamma,

and self potential/resistance logged using a portable SIE T450E logging unit during the period.

2. Rotary/Percussion Drilling

9 holes, totalling 687.80m were logged similarly to the diamond drill holes. Total Geophysical logging amounted to 1512.45m.

Drafted wire line logs of the 20 holes are included in the attached sections, of which 8 have both geophysical and geological data depicted.

E. SAMPLING AND ANALYSES

1. Diamond Drill Core

All coal seams intersected in the drilling program (19 holes) were sampled and despatched to SGS Aust. P/L in Sydney for proximate analysis, and detailed seam logging.

This data is contained in Appendix 2.

All core is presently stored in the Victor Exploration P/L Campbell Office.

2. Rotary/Percussion Samples

All drill holes not collared in dolerite had representative 2m samples collected, bagged and stored in the Campbell Town Office.

F. DRAFTING

The 20 holes which were wire line logged were drafted at a scale of 1:100, including 8 holes which had both geological and geophysical data portrayed.

In addition, all 26 diamond drill holes were depicted graphically at scales ranging from 1:100 to 1:500 (Appendix 1).

G. SURVEYING

The collars of all 37 holes drilled during the period were levelled and tied to the state datum; the co ordinates of these collar sites were also calculated, as shown in the enclosed plan.

T. G. Summons

T. G. SUMMONS.
Supervising Geologist,
Tasmania.

31. 8. 81.

SUMMARY OF ACTIVITIES

EL 31/80					
Month	Drilling			Geophysical Logging	
	P/R	Precollar	Diamond	P/R	Diamond
May	-	47.00	234.18	-	-
June	797.00	135.16	1104.95	687.80	537.94
July	106.00	28.00	331.20	-	286.71
Totals:	903.00	210.16	1670.33	687.80	824.65
<p>Total Drilling: 2783.49m</p> <p>Total Geophysical Logging: 1512.45m</p>					

TABLE 1

DRILL HOLE DATA.

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WOODBURY COAL PROJECT.

Hole	Easting	Northing	Collar Elevation (m)	Method/ Contractor	Core		Total Core (m)	Total Depth (m)	Base of Oxidation (m)
					From (m)	To (m)			
W20	540 730	5 332 090	225.26	R/E	-	-	-	35.0	.....
W23	536 190	5 330 810	224.90	R/E	-	-	-	100.0	.....
W25	539 425	5 330 735	222.51	D/S	3.50	83.80	80.30	83.80	11.20
W26	540 000	5 331 100	218.02	D/S	7.50	81.38	73.88	81.38	< 7.5
W27	541 180	5 331 300	228.67	D/S	6.00	35.80	29.80	35.80	6.5
W27A	541 165	5 331 345	228.67	R/E	-	-	-	.....	.....
W29	533 695	5 329 980	229.60	D/m	6.00	34.00	28.00	34.00	9.3
W30	535 510	5 329 900	223.17	D/S	10.00	50.50	40.50	50.50	< 10.0
W31	536 190	5 330 375	224.06	R/E	-	-	-	116.00	.....
W31A	536 140	5 330 160	225.35	D/S	6.50	54.30	47.80	54.30	12.5
W32	538 235	5 330 330	211.10	D/m	6.00	88.50	82.50	88.50	7.3
W34	540 295	5 329 945	225.01	D/S	2.76	66.11	63.35	66.11	7.7
W36	541 720	5 330 380	238.55	R/E	-	-	-	74.00	.....
W37	536 575	5 329 870	220.00	D/S	8.00	86.30	78.30	86.30	8.8
W38	537 420	5 329 350	235.15	D/S	6.30	102.35	96.05	102.35	11.9
W39	538 315	5 329 290	238.49	D/S	19.30	103.30	84.00	103.30	< 19.3
W40	539 080	5 329 620	222.22	D/S	3.50	99.19	95.69	99.19	8.1
W41	540 080	5 329 415	228.57	D/m	6.00	76.50	70.50	76.50	9.8
W43	535 865	5 329 265	229.16	R/m	-	-	-	76.00	.....
W43A	535 865	5 329 265	232.23	D/m	6.00	70.00	64.00	70.00	10.2
W46	539 050	5 328 785	250.24	D/S	13.50	99.88	86.38	99.88	< 13.50
W47	540 130	5 328 450	253.75	D/m	3.00	95.28	92.28	95.28	10.2
W48	541 030	5 328 265	270.83	D/m	3.00	90.00	87.00	90.00	8.2
W49	541 190	5 328 885	242.54	D/S	6.00	48.05	42.05	48.05	12.4
W50	535 880	5 328 780	273.20	R-D/m	37.70	64.00	26.30	64.00	n/a
W50A	535 880	5 328 780	273.20	R/m	-	-	-	106.00	n/a
W53	539 360	5 328 125	294.25	R/m	-	-	-	66.00	.....
W60	534 325	5 330 020	224.04	D/m	11.00	61.00	50.00	61.00	11.9
W61	539 720	5 329 495	229.28	D/m	6.00	88.70	82.70	88.70	8.0
W62	542 065	5 329 630	270.00	R/E	-	-	-	72.00	.....

W63	541 450	5 328 675	253.78	D/S	8.60	44.55	35.95	44.55	14.0
W64	542 105	5 328 960	261.12	R/E	-	-	-	92.00	.....
W64A	542 110	5 328 920	261.12	D/m	6.00	52.50	46.50	52.50	9.5
W65	541 050	5 328 955	240.02	R/E	-	-	-	86.00	.....
W67	535 270	5 330 185	217.97	D/m	6.00	88.5	82.50	88.50	6.6
W68	535 200	5 329 565	249.37	D/m	6.00	33.50	27.50	33.50	20.0

R - Rotary/Percussion drill hole.
 D - Diamond drill hole.
 M - Tas. Dept. of Mines.
 S - H.Stacpoole.
 E - Exploration drilling.

005

940007

U.M.	A.O.	C.G.	E.O.	D.S.M.L.
Date: - 1 SEP 1981				petra
DEPT. OF MINES				E & IL
REP. No: 7531/81				

EL 31/80

APPENDIX 1

DIAMOND DRILL LOGS AND GRAPHIC LOGS

W25

0-3.5 m	Precollar	
3.50-19.00 m	Lithic arenite, grey, medium grained, coaly debris (Base of Oxidation - 11.2 m)	
19.00-19.30 m	Coal, dull, 1% bright	1.3
19.30-21.38 m	Mudstone, grey	2.08
21.38-21.71 m	Coal, dull, \approx 1% bright, broken, 2 splits	3.33
21.71-24.70 m	Mudstone, grey, tuffaceous	
24.70- 25.24 m	Siltstone, grey	3.66
25.24-25.37 m	Mudstone, grey	
25.37-25.94 m	Coal, dull, \approx 2% bright, 1 split, calcite veins, normal to bedding in basal section	5.7
25.94-27.10 m	Mudstone, grey, tuffaceous	
27.10-27.54 m	Mudstone/shale, grey and carbonaceous	1.74
27.54-27.68 m	Mudstone, grey	
27.68-28.19 m	Coal, dull, 3% bright, calcite veins normal to bedding	5.1
28.19-28.75 m	Mudstone, grey, tuffaceous	
28.75-59.37 m	Lithic arenite, grey/green, medium grained, minor coaly debris + clay pellet conglomerate (including deformed carbonaceous mudstone fragments with glauconite rims 49.2-57.90)	
59.37-60.40 m	Coal, dull, 3% bright, 1 split, calcite veins parallel and normal to bedding	1.03
60.40-61.18 m	Mudstone, grey/carbonaceous banded, minor shale coal bands	
61.18-63.50 m	Siltstone/lithic arenite, fine grained, grey	
63.50-63.90 m	Mudstone, grey	
63.90-64.21 m	Coal, dull, \approx 3% bright, 2 splits, calcite veins normal to bedding in basal section	3.1
64.21-64.29 m	Mudstone, grey	
64.29-67.75 m	Mudstone, grey, minor siltstone, and several dull coal bands \leq 20 mm wide	
67.75-83.80 m	Lithic arenite, grey, medium grained, minor coaly debris	
	END OF HOLE 83.80 m	

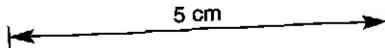
VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940009

007

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 25 Sheet 1 of 4
 From 0 To 23.00 m
 Scale (s) 1:100
 Logged by T. S. ... 8/7/1981



1	2	3	4	5	6	7	8	9	10	11	12	Comments
	PRE CON. L.A.A.											
2												
4												
6		MW										
8												
10		MW										
11.2		SW										
12												
14		F										
16												
18		F										
19.0												
19.30												
20												
21.38												
21.4												
23					T							
					T							

Lithic arenite - grey (fresh), v. minor
 coaly debris

LINE OF OXIDATION

Coal, heavy dull - 2.5' to 19' height

Mudstone, grey.

Coal, D, heavy; coal, D, heavy; mudstone, carbonaceous

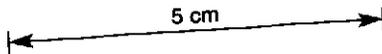
Coal, D, 10% bright;

Mudstone, grey, tuffaceous

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

- 1 Sample recovery
- 2 Rock type
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- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 25 Sheet 2 of 4
 From 23.00 To 46.00 m
 Scale (s) 1:100
 Logged by T. Summers 8/7/1981



1	2	3	4	5	6	7	8	9	10	11	12	Comments
24					T							Mudstone, gray, tuffaceous
24.7					T							Siltstone, gray
25.2					T							Coal Dmb, 5% bright
25.37					T							shale, buff
25.52					T	M						Coal, Dmb, 2% bright
25.94					T							Coal, D, heavy
27.10					T							Mudstone, gray, tuffaceous
27.25					T							shale, carbonaceous
27.68					T							Mudstone, gray/carbonaceous, minor coal, buff shale.
27.79					T							Coal, D, 1% bright
28.19					T							Coal, Dmb, 5% bright, Calcrete veins
28.75					T							Mudstone, gray, tuffaceous
29.50					T							Siltstone, gray, tuffaceous
30												
32												
34												
36												
38												
40												
42												
44												
46												Mudstone, carbonaceous, cf. Pyrite = 10wt%

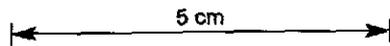
VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940011

00 009

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11

Hole No. W 25 Sheet 3 of 4
 From 46.00 To 69.00
 Scale (s) 1:100
 Logged by TL Summers 8/7/1988



1	2	3	4	5	6	7	8	9	10	11	12	Comments
												Lithic arenite
												Clay pellet conglomerate - lithic arenite matrix
												Lithic arenite
												Clay pellet conglomerate - "licorice rock" - deformed carbonaceous mudstone (+ coal), cemented with glauconite, minor calcite.
												Coal, D ₂ , heavy; calcite veins oblique to bedding
												Coal, D ₂ , 3% bright, minor calcite veins ⊥ bedding
												Mudstone, grey/carbonaceous, banded, 3mm wide bright coal bands
												Siltstone/mudstone, grey, interbedded
												Lithic arenite, grey
												Siltstone, grey
												Mudstone, grey
												Coal, D ₂ , 5% bright, 2 splits mineral veins (Mudstone, grey)
												Mudstone, grey/carbonaceous, banded.
												Mudstone, grey, with dull coal bands 1-20mm wide.
												Mudstone, grey
												Lithic arenite, grey

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940012

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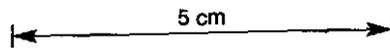
- 1 Sample recovery 6 Mineralisation/Representative Fabric
- 2 Rock type 7
- 3 Rock condition 8
- 4 Stratification 9
- 5 Structure 10
- 11
- 12

Hole No. W 25 Sheet 4 of 4

From 69.00 To 83.80 m

Scale (s) 1:100

Logged by TGS Summary 5/7/1983



1	2	3	4	5	6	7	8	9	10	11	12	Comments	
70	•••••												
72	•••••												
74	•••••												
76	•••••												
78	•••••												
80	•••••												
82	•••••												
84	•••••												
86	•••••												
88	•••••												
90	•••••												
92	•••••												
94	•••••												
96	•••••												
98	•••••												
100	•••••												
102	•••••												
104	•••••												
106	•••••												
108	•••••												
110	•••••												
112	•••••												
114	•••••												
116	•••••												
118	•••••												
120	•••••												
122	•••••												
124	•••••												
126	•••••												
128	•••••												
130	•••••												
132	•••••												
134	•••••												
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138	•••••												
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142	•••••												
144	•••••												
146	•••••												
148	•••••												
150	•••••												
152	•••••												
154	•••••												
156	•••••												
158	•••••												
160	•••••												
162	•••••												
164	•••••												
166	•••••												
168	•••••												
170	•••••												
172	•••••												
174	•••••												
176	•••••												
178	•••••												
180	•••••												
182	•••••												
184	•••••												
186	•••••												
188	•••••												
190	•••••												
192	•••••												
194	•••••												
196	•••••												
198	•••••												
200	•••••												

Lithic arenite, gray

Abundant coaly debris

Abundant coaly debris

EOM - 83.80 m.

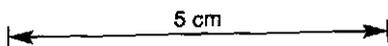
W26

0. - 7.50m	Precollar (base of Oxidation < 7.5m)
7.50 - 9.10m	Mudstone, grey and white banded
9.10 - 23.58m	Lithic arenite, grey/green; minor coaly debris
23.58 - 23.63m	Tuff - ?mafic
23.63 - 36.70m	Lithic arenite, grey/pale green; chloritic aggregates
36.70 - 37.40m	Deformed carbonaceous mudstone clasts, set in a glauconitic matrix - "licorice rock"
37.40 - 47.00m	Lithic arenite, grey/pale green; no coaly debris
47.00 - 50.93m	Mudstone/siltstone, grey/brown; baked carbonaceous mudstone from 48.30 - 48.60m
50.93 - 50.97m	Tuff - ?intermediate
50.97 - 56.95m	Mudstone/siltstone, grey/brown/khaki; minor zeolite
56.95 - 58.00m	Arenite - sub lithic, grey/pale green
58.00 - 59.75m	Mudstone, minor siltstone, grey/brown; baked carbonaceous mudstone 59.60 - 59.75m
59.75 - 63.78m	Lithic arenite, grey/brown; pale clay pellets
63.78 - 63.85m	Tuff - ?intermediate
63.85 - 64.66m	Mudstone, grey/brown, banded; zeolitic
64.66 - 64.96m	Tuff - ?acid, and acid volcanic; zeolitic
64.96 - 67.70m	Arenite, sub lithic, minor siltstone, grey/green; zeolitic
67.70 - 68.00m	Acid volcanic (?rhyolite)
68.00 - 81.38m	Arenite, sub lithic, tuffaceous; chlorite aggregates.

END OF HOLE 81.38m

MULTIPURPOSE DRILL HOLE LOG

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11



Hole No. W 26 Sheet 1 of 4
 From 0 To 23.00 m
 Scale (s) 1:100
 Logged by T.G. Summers 17/7/1981

1	2	3	4	5	6	7	8	9	10	11	12	Comments
2	PRE COLLAR											
4												(AREA OF OXIDATION - < 7.50 m.)
6												Mudstone, gray, white, banded
7.5												
8												
9.5												
10												
10												
12												
14												
14												
16												
16												
18												
18												
20												
20												
22												
22												

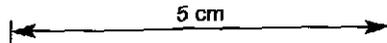
- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 26 Sheet 2 of 4

From 23.00 To 46.00 m

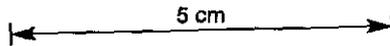
Scale (s) 1:100

Logged by TG Summers 17/7/1987



1	2	3	4	5	6	7	8	9	10	11	12	Comments	
23.00 23.65													
24	100	F										? Mafic tuff - dark green, chloritic, with white spotted mineral (2mm)	
26													
28												Lithic arenite, grey/pale green, minor cream mudstone pellets	
30	100											No coaly debris	
32		F											
34													
36	100												
37.00													
37.40												Clay pellet conglomerate - "licorice rock" - deformed carbonaceous mudstone lentacles, rimmed with glauconite.	
38												? Mafic tuff fragment 36.90-36.93 m - similar to 23.58-23.63 m.	
40													
42	100												
44		F										Lithic arenite, grey/pale green, no coaly debris	
46												Opaque decreasing → 47.00 m.	

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 26 Sheet 3 of 4
 From 46.00 To 69.00 m
 Scale (s) 1:100
 Logged by T.G. Summers 17/7/1981

	1	2	3	4	5	6	7	8	9	10	11	12	Comments
46													
47			F										Mudstone, grey/brown
47.5													Carbonaceous mudstone, ? baked / siliceous
48													Mudstone, silty, pale grey/brown, bentonitic
48.5													? Intermediate tuff - grey/green, orange + white shandey
49			F										Mudstone - as for 48.6 - 50.93 m.
50													Siltstone, grey, bentonitic
51						Z							Mudstone, grey, khaki, banded, minor orange zeolite
52						Z							
53						Z							
54			F										Siltstone, grey
55													Mudstone, grey/brown/khaki
56													Siltstone, grey
57													Arenite, sub lithic, grey/pale green, banded.
58													Siltstone, grey/brown
59													Mudstone, grey/brown, banded
60			F										Mudstone, carbonaceous, diffuse margins
61													Lithic arenite, grey/brown, cream mudstone pellets
62						Z							Lithic arenite - tuffaceous pink/white bands due to concentration of pink ? zeolite
63													Lithic arenite - as for 59.78 - 61.00 m; mudstone pellets av. 1mm.
64													Mudstone, grey
65						Z							? Intermediate tuff - chlorite matrix, white ? shandey
66						Z							Mudstone, grey/brown, banded, large flattened ? shandey
67						Z							Tuff (acid/intermed) + ? andesite/ryholite (flow banding)
68													Siltstone, grey/green
69			F			Z							Arenite, sub lithic, dark grey, minor orange zeolite on joints
70						Z							Siltstone, grey/green
71													Arenite, sub lithic - as for 65.5 - 66.68 m.
72													Rhyolite - white, yellow siliceous, flow banded
73													Arenite, ? sub lithic, chlorite aggregates, (2mm)

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940017

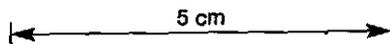
- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W26 Sheet 4 of 4

From 69.0 To 81.38m

Scale (s) 1:100

Logged by TG Summers 17/2/1987



1	2	3	4	5	6	7	8	9	10	11	12	Comments
70		F										
70.2												Tuffaceous lithic arenite (similar 61.20-61.50m)
72												
74		F										Arenite, sub lithic, gray, chloritic aggregates (2mm); ? pumice fragment @ 72.0 m.
76												
78												
78.2												Tuffaceous lithic arenite, orange/pink coloured (cf. 61.20-61.50 m).
78.5		F										
80												
81.1												
81.38												ROK 81.38m

W27

0 - 6.00m	Precollar
6.00 - 14.80m	Arenite, sub lithic; cream mudstone pellets, chloritic bands; Base of Oxidation 7.7m
14.80 - 15.00m	Mudstone, green, silicified
15.00 - 17.95m	Arenite, sub lithic, cream mudstone pellets, chloritic bands
17.95 - 18.64m	Mudstone, grey/green, silicified; silicified wood fragments
18.64 - 18.87m	Tuff - andesitic, welded
18.87 - 20.20m	Mudstone, pale green
20.20 - 20.27m	Tuff - ?intermediate
20.27 - 22.50m	Mudstone/siltstone, cream and pale green
22.50 - 31.55m	Arenite, sub lithic, grey/pale green; chloritic bands and aggregates; minor green mudstone pellets
31.55 - 35.80m	Arenite, sub lithic (as for 22.50 - 31.55), which has been baked and is now hard, siliceous

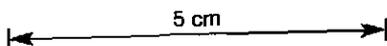
END OF HOLE 35.80m

017

MULTIPURPOSE DRILL HOLE LOG

940019

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 27 Sheet 1 of 2

From 0 To 23.00m

Scale (s) 1:100

Logged by T.G. Summers 17/7/1981

1	2	3	4	5	6	7	8	9	10	11	12	Comments
	PAE COLLAR											
7.0												BASE OF OXIDATION
14.80												Sub-Lithic arenite, grey/pale green; cream + pale green mudstone pellets; bedding defined by vague chlorite bands (less opaque than Coal Measures Seq. lithic arenite, + more foldipor, zoolite)
14.80												Mudstone, green, silicified; coarse grained
15.00												Sub-Lithic arenite - as for 6.00-14.80m.
17.45												Mudstone, grey/green, silicified; silicified wood; trace zoolite
18.64												Tuff, andesitic, welded; green, orange, mottled.
18.87												Mudstone, pale green.
20.00												Tuff - ? intermediate; grey, green, white ? flow banded
20.37												Mudstone, cream/pale-green.
20.70												
22.00												Siltstone, green; minor arenite bands
22.50												Sub lithic arenite

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940020

018

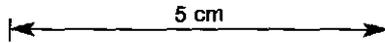
- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 27 Sheet 2 of 2

From 23.00 To 35.80 m

Scale (s) 1:100

Logged by T.S. Sommers 17/7/1981



1	2	3	4	5	6	7	8	9	10	11	12	Comments
24	•••••		/ / / / /		S							Sub lithic arenite, grey/pale green, minor green mudstone patches, dolomite bands and aggregates
26	•••••		/ / / / /		S							
28	•••••		/ / / / /		S							
30	•••••		/ / / / /		S							
31.55	•••••		/ / / / /									Sub lithic arenite, (as for 22.50-31.55 m) but thermally metamorphosed - now siliceous - dolomite inferred at depth
34	•••••		/ / / / /									
35.80												ROM 35.80 m —

W29

- 0-6.00 m Precollar
- 6.00-13.70 m Mudstone, grey (Base of Oxidation 9.30 m)
- 13.70-16.80 m Lithic arenite, pale grey/green, fine grained, minor mudstone interbeds
- 16.80-17.80 m Mudstone, pale green/grey
- 17.80-20.36 m Lithic arenite, pale grey, fine grained, minor pale/grey mudstone
- 20.36-20.60 m ? Tuff, altered, pale cream clay (kaolinitic)
- 20.60-20.90 m Lithic arenite, pale grey/green, fine to medium grained
- 20.90-21.0 m ? Tuff, welded/rhyolite
- 21.00-24.20 m Mudstone and silty mudstone, pale grey/green
- 24.20-32.90 m Mudstone/siltstone/lithic arenite (fine grained), pale grey/green, interbedded; crushed zone 28.8-29.55 m, ? acid pyroclast 31.0-31.03 m, mudstone is bentonitic, and ? oxidised/red bed 31.9-32.6 m
- 32.90-34.00 m Mudstone, grey/green, minor carbonaceous mudstone bands

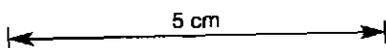
END OF HOLE 34.00 m

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940022

020

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

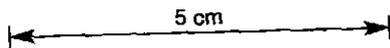


Hole No. W29 Sheet 1 of 2
 From 0 To 23.00 m
 Scale (s) 1:100
 Logged by T.G. Summers / 119

1	2	3	4	5	6	7	8	9	10	11	12	Comments
	ARE COLLAR											
2												
4												
6												
8												
10												
12												
14												
16												
18												
20												
22												
24												
26												
28												
30												
32												
34												
36												
38												
40												
42												
44												
46												
48												
50												
52												
54												
56												
58												
60												
62												
64												
66												
68												
70												
72												
74												
76												
78												
80												
82												
84												
86												
88												
90												
92												
94												
96												
98												
100												

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 29 Sheet 2 of 2
 From 23.00 To 34.00
 Scale (s) 1:100
 Logged by TG Summers / 19



1	2	3	4	5	6	7	8	9	10	11	12	Comments
24.00	66	F										Mudstone, silty, pale gray/green
24.20												
26.00	82	F										Siltstone/mudstone, pale gray/green, interbedded, minor sub-lithic arenite
27.00												
28.8												Crushed zone in arenite and mudstone, also calcite porphyroclasts, Δ angles poorly exposed.
29.6	100			▲▲▲▲								
30.00		F										Mudstone is bentonitic ? Acid pyroclast, cream/pink, 31.00-31.05m
31.90												? Red bed mudstone - oxidation products forming.
32.60												
32.90	100											Mudstone, gray/green, minor carbonaceous mudstone bands 20-30mm
34.00		F										
												EOH - 34.00m

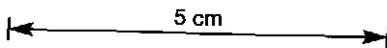
W30

0 - 10.00m	Precollar	(Base of Oxidation < 10.00m)
10.00 - 10.55m	Lithic arenite, pale grey	
10.55 - 10.90m	Coal, heavy dull	0.35
10.90 - 11.00m	Mudstone, carbonaceous	
11.00 - 20.20m	Lithic arenite, brown/grey;	minor coaly debris
20.20 - 21.00m	Coal, dull, 1 - 5% bright	0.80
21.00 - 21.10m	Mudstone, carbonaceous	
21.20 - 23.90m	Mudstone, grey/brown	
23.90 - 24.70m	Siltstone, green	
24.70 - 34.88m	Lithic arenite, grey/green,	minor coaly debris
34.88 - 36.10m	Coal, dull, 5% bright, 1 split	1.22
36.10 - 36.40m	Mudstone, grey	
36.40 - 37.40m	Siltstone, grey/brown	
37.40 - 48.45m	Lithic arenite, green/grey	
48.45 - 50.50m	Mudstone, silty, dark grey	

END OF HOLE 50.50m

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 30 Sheet 1 of 3
 From 0 To 23.00 m
 Scale (s) 1:100
 Logged by T. G. Summers 14/7/1981



1	2	3	4	5	6	7	8	9	10	11	12	Comments
(BASE OF DRILLATION < 10.00 m.)												
	PAECOLLAR											Lithic arenite, pale gray
		F										Coal, heavy dull - D
												Mudstone, carbonaceous
		F										Lithic arenite, minor coaly debris, carbonaceous mudstone / Coaly bands from 11.0 - 12.10 m.
		F										Coal, heavy dull - D, + carbonaceous mudstone "pug"
		F										Coal, dull - Dmb, ave 5% bright, brown dirt (?palaeosol) split 20.70 - 20.72
												Mudstone, carbonaceous
												Mudstone, grey/brown, broken

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940026

024

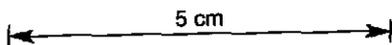
- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 30 Sheet 2 of 3

From 23.00 To 46.00 m

Scale (s) 1:100

Logged by T.G. Summers 14/7/1982

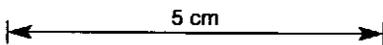


		1	2	3	4	5	6	7	8	9	10	11	12	Comments
24	84													
				F										Siltstone, minor mudstone, green, finely laminated
26	100			Sw										Lithic arenite, green (glaucousitic); minor coaly debris
28	100			F										
30	100			F										Lithic arenite, grey/green; v. minor coaly debris
32				F										
34	87													Coal, dull - D, ± 1% bright carbonaceous shale
				F										Coal, dull - Dmb, avc ± 9% bright, broken
36	36.10													Mudstone, grey/brown
	36.40			F										Siltstone, grey/brown → lithic arenite, fg.
38	100													
				F										Lithic arenite, green
40														
				F										
42														
44	100													
				F										Lithic arenite, grey
46														

MULTIPURPOSE DRILL HOLE LOG

025

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 30 Sheet 3 of 3

From 46.00 To 50.50 m

Scale (s) 1:100

Logged by T. S. Simmons 14/7/1981

1	2	3	4	5	6	7	8	9	10	11	12	Comments
	F											Lithic arenite, grey.
	F											Mudstone, silty, dk. grey + carbonaceous - broken.
												ROM - 50.50 m

W31A

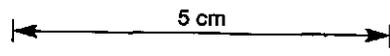
0-6.50 m Precollar
6.50-19.50 m Lithic arenite, grey, medium grained (Base of Oxidation 12.5 m)
19.50-19.70 m Coal, dull, ≈ 1% bright
19.70-19.90 m Mudstone, carbonaceous
19.90-21.00 m Siltstone/mudstone, grey/brown, tuffaceous
21.00-52.65 m Lithic arenite, grey/green, medium grained, with baked/silicified carbonaceous mudstone 48.55-48.85 m, and 50.10-50.30 m, minor coaly debris and clay pellet conglomerate (including deformed carbonaceous mudstone clasts rimmed with glauconite 51.20-51.50 m)
52.65-53.68 m Mudstone, pale brown, and ? tuff, green
53.68-53.75 m Mudstone, carbonaceous, or? coal, heavy dull
53.75-53.90 m Mudstone, pale brown
53.90-54.30 m Siltstone, pale brown
END OF HOLE 54.30 m

027

VICTOR EXPLORATION PTY. LTD. MULTIPURPOSE DRILL HOLE LOG

940029

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 31 A Sheet 1 of 3
 From 0 To 23.0 m
 Scale (s) 1:100
 Logged by T.G. Summers 14/7/1987

												Comments	
2													
4													
6													
8													
10													
12													
12.5													
14													
16													
18													
19.5													
20													
20.6													
21.0													
22													

MW

F

MW

Lithic arenite - brown

- grey

} interbedded with grey mudstone
 ↳ zone of oxidation ↳

Lithic arenite, grey

Coal, heavy dull - 5 ; in 19 beds
 Mudstone, carbonaceous

Mudstone, grey/brown ? bentonitic

Siltstone, grey/brown, banded.

Lithic arenite, grey.

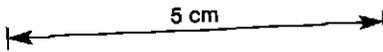
VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940031

029

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W3A Sheet 3 of 3
 From 46.00 To 54.30 m
 Scale (s) 1:100
 Logged by TG Summers 19/2/1981



1	2	3	4	5	6	7	8	9	10	11	12	Comments
46												
48.55			S ₂		ankh							
48.85		F				M						? Mudstone, carbonaceous - ? baked/silicified
50			S ₂									
50.10						M						? Mudstone, carbonaceous - ? baked/silicified + white spotted mineral to 50.10
50.30												Lithic arenite - as for 48.85-50.10 - ? baked ms.
51.20												Mudstone, carbonaceous - deformed, glauconitic matrix "Licorice rock"
51.50												Lithic arenite, grey, minor carb. mudstone with glauconitic rims
52												Mudstone, pale brown, banded, with ? green tuff with ? white shards 53.65-53.68m.
52.65												Mudstone - carbonaceous - sandy Mudstone - brown Siltstone, pale brown.
53.65												
53.70												
54												
												EOH - 54.30 m

030

940032

W32

0-6 m	Precollar
6-14.9 m	Lithic arenite, grey/green (Base of Oxidation - 7.30 m)
14.9-16.65 m	Shale, grey
16.65-17.62 m	Coal, dull, < 1% bright, 2 splits .97
17.62-18.80 m	Shale, buff, tuffaceous 1.18
18.80-20.00 m	Coal, dull, < 1% bright (heavy dull in part), 2 splits 1.20
20.00-20.70 m	Mudstone, grey
20.70-48.00 m	Lithic arenite, pale/medium grey, minor coaly debris, clay pellet conglomerate
48.00-48.80 m	Mudstone, grey
48.80-48.85 m	Lithic arenite, grey, medium grained
48.85-49.85 m	Coal, dull, < 1% bright 1.0
49.85-49.95 m	Mudstone, carbonaceous
49.95-55.30 m	Siltstone, grey
55.30-85.50 m	Lithic arenite, grey/green, medium grained, coaly debris

END OF HOLE 88.5 m

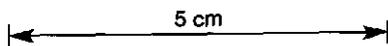
VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

031

940033

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 32 Sheet 1 of 4
 From 0 To 23.0m
 Scale (s) 1:100
 Logged by TG Summers 3/7/1987



1	2	3	4	5	6	7	8	9	10	11	12	Comments
	PRE COLLAR											
6.85	MU											Lithic arenite
7.30	MU											Mudstone/shale, brown, tuffaceous + carbonaceous ↑ NASE OR OXIDATION ↑
9.70	F											Lithic arenite, gray/green
10.00												Mudstone, gray
14.90	F											Lithic arenite, gray/green
16.40	F											Mudstone, gray, (carbonaceous 16.00-16.05m)
16.45												Coal, (heavy) dull - D, < 1% bright
16.49												Shale, buff, tuffaceous
17.36	F											Coal, dull - D, 1% bright
17.62												Coal, dull - Dmb, 2-5% bright
18.30												Shale, gray/buff, tuffaceous
19.00												Coal, heavy dull - D, 2-4% bright
19.20												Siltstone, gray/buff, tuffaceous
19.40	F											Coal, dull - D, 1% bright
19.60												Mudstone, carbonaceous, bands of bright coal (2% or)
20.00												Mudstone, gray
20.70												Lithic arenite - pale gray

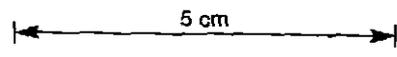
VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940034

032

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 32 Sheet 2 of 4
 From 23.0 To 46.0 m
 Scale (s) 1:100
 Logged by 76 Summers 2.17.1981



1	2	3	4	5	6	7	8	9	10	11	12	Comments
24	100											
26		F										
28												
30												Mudstone, carbonaceous - ? baked/silicified.
32	100											
34		F										Lithic arenite, grey minor coaly debris
36												
38	100											
40												
42		F										
44	100											Clay pellet conglomerate
46												

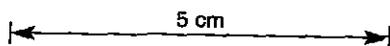
MULTIPURPOSE DRILL HOLE LOG

940035

033

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 32 Sheet 3 of 4
 From 46.00 To 69.00
 Scale (s) 1:100
 Logged by TDS 17/1198



1	2	3	4	5	6	7	8	9	10	11	12	Comments
		F										lithic arenite, gray
												Mudstone, gray
48												lithic arenite, gray
48.5												Mudstone, gray
48.5												lithic arenite, gray
49		F										Coal, heavy dull - D, ~ 1% bright
49.5												Coal, dull, - D, ~ 1% bright
50												Mudstone, carbonaceous
52												Siltstone, minor mudstone interbeds, gray.
54		F										
55												coaly laminae
56												
58												lithic arenite, gray (green (cg)) v. minor coaly debris
60												
62		F										
64												lithic arenite, gray. (mg)
66												
68												

MULTIPURPOSE DRILL HOLE LOG

940036

034

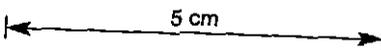
- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 32 Sheet 4 of 4

From 69.0 To 88.50 m

Scale (s) 1:100

Logged by T. S. Summers 3/7/1981



1	2	3	4	5	6	7	8	9	10	11	12	Comments
70	F											
72	F											
74	F											
76	F											
78	F											
80	F											
82	F											
84	F											
86	F											
88	F											
												88.5
												EOH- 88.50m

lithic arenite, gray, minor coaly debris

W34

0-2.76 m	Precollar
2.76-4.60 m	Lithic arenite, medium grained
4.60-6.30 m	Mudstone, carbonaceous
6.30-20.75 m	Lithic arenite, grey/green, medium grained, carbonaceous mudstone clasts and laminae (Base Oxidation 7.7 m)
20.75-27.48 m	Mudstone, grey/pale brown/khaki/carbonaceous
27.48-27.49 m	Tuff, ? intermediate
27.49-27.75 m	Mudstone, green
27.75-27.76 m	Tuff, ? intermediate
27.76-28.30 m	Mudstone, pink to pale brown
28.30-31.60 m	Siltstone, green/khaki
31.60-31.65 m	Tuff, ? intermediate
31.65-33.10 m	Mudstone, pink/pale brown/grey
33.10-33.60 m	Siltstone, grey
33.60-62.05 m	Lithic arenite, grey/green, orange grains, chlorite aggregates, minor pale brown/cream mudstone clay pellet conglomerate, mudstone and siltstone interbeds
62.05-62.15 m	Tuff, (? intermediate) and tuffaceous mudstone
62.15-62.95 m	Mudstone, green/khaki
62.95-63.11 m	? Tuff, rhyolite
63.11-64.15 m	Mudstone, green/khaki
64.15-65.25 m	Lithic arenite, grey/green, fine to medium grained
65.25-65.59 m	Siltstone, khaki
65.59-65.70 m	Tuff, acid/intermediate
65.70-66.11 m	Mudstone, grey/brown

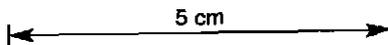
END OF HOLE 66.11 m

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940038

036

- | | |
|-------------------|--|
| 1 Sample recovery | 6 Mineralisation/Representative Fabric |
| 2 Rock type | 7 |
| 3 Rock condition | 8 |
| 4 Stratification | 9 |
| 5 Structure | 10 |
| | 11 |
| | 12 |



Hole No. W 34 Sheet 1 of 3

From 0 To 25.00 m

Scale (s) 1:100

Logged by TG Summers 10/7/1981

		1	2	3	4	5	6	7	8	9	10	11	12	Comments
2														
2.76														
4														Lithic arenite
4.1														
6														Mudstone, carbonaceous
6.5														
7.70														BASE OF OXIDATION
8														
10														
17														
10														Lithic arenite, gray/green; faint carbonaceous laminae
14														
16														
11														
19.25														
20														Carbonaceous mudstone fragments, minor glauconitic rims (- ? incipient "breccia rock")
20.75														
21.5														Mudstone, pale brown/carbonaceous, banded.
21.75														
22														Mudstone, gray/pale brown/ khaki, finely laminated

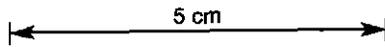
MULTIPURPOSE DRILL HOLE LOG

940039

037

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 6 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 34 Sheet 2 of 3
 From 23.00 To 46.00m
 Scale (s) 1:100
 Logged by TGSummers 10/7/1981



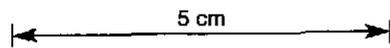
		1	2	3	4	5	6	7	8	9	10	11	12	Comments
24	100			F										Mudstone, grey/pale brown / khaki, finely laminated
26														
27.48														27.48-27.76m Mudstone, green, with ? mafic tuffs
27.76														27.76-28.30m Mudstone, pink → pale brown at base
28.30														
30	100			F										Siltstone, green / khaki, mudstone laminae
31.60														? Mafic tuff - chlorite matrix, densely packed, platy, white ? shales
32														
35.10														Mudstone, pink → pale brown / green
35.60														Siltstone, grey
36														
38	100			F										Lithic arenite, grey/green; faint carbonaceous bands.
40														
41.75														
42	100			F										Pale brown mudstone clay pebbles conglomerate in lithic arenite, orange and pink ? zeolite grains
44														
45.10														
46	83													Siltstone, green/grey

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940040

038

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 6 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 34 Sheet 3 of 3
 From 46.0 To 66.11m
 Scale (s) 1:100
 Logged by T.G. Spence 10/7/1987

		1	2	3	4	5	6	7	8	9	10	11	12	Comments
46	83			F										
48														Lithic arenite, grey/green, orange-pink ? zeolite grains
50	100													
52	17.0			F										Lithic arenite, dk. grey, 10mm calcite veins (vertical)
54	52.6													Lithic arenite, grey/green, orange? zeolite grains Carbonaceous mudstone debris minor calcite veins. 54.0-54.85m
56	100													Mudstone, carbonaceous/dk. green
58	56.2			F										Lithic arenite, grey/green, orange? zeolite grains; speckled with chlorite aggregates
60	57													Mudstone, carbonaceous/dk. green
62	60.0			F										Pale brown mudstone clay pellet conglomerate
64	62.0													? Sapie tuff - chlorite matrix, flattened white shards
66	62.95													Mudstone, green/khaki, orange zeolite on joints
														(Hard volcanic/welded tuff - pink/green siliceous)
	4													Mudstone, green/khaki; (? weathered tuff 63.60-63.70m)
	65.05			F										Lithic arenite, grey/green.
	65.05													Siltstone, khaki
	65.05													? Intermediate tuff - dk. green, pink, basoid, flattened shards
	66													Mudstone, grey/brown
														ROM - 66-11m

W36A

0 - 6.00m	Precollar
6.00 - 6.60m	Mudstone, carbonaceous and grey/brown
6.60 - 7.50m	Lithic arenite
7.50 - 10.35m	Mudstone, minor siltstone, grey (Base of Oxidation 8.80m)
10.35 - 12.30m	Siltstone, grey, banded
12.30 - 31.50m	Lithic arenite, grey
31.50 - 31.70m	Deformed carbonaceous mudstone clasts, set in a glauconitic matrix ("Licorice rock")
31.70 - 32.96m	Lithic arenite, grey/brown
32.96 - 33.68m	Coal, dull, 3% bright 72
33.68 - 35.40m	Mudstone, grey
35.40 - 36.20m	Lithic arenite, grey
36.20 - 36.37m	Coal, dull, < 10% bright 17
36.37 - 37.05m	Siltstone, grey
37.05 - 38.70m	Mudstone, carbonaceous
38.70 - 39.70m	Siltstone, grey
39.70 - 54.20m	Lithic arenite, grey/green
54.20 - 54.75m	?Altered basalt
54.75 - 60.55m	Lithic arenite, grey; minor chloritic aggregates
60.55 - 63.40m	Mudstone, grey/white, laminated
63.40 - 73.00m	Lithic arenite, grey
73.00 - 73.10m	Tuff?
73.10 - 80.60m	Siltstone/mudstone, cream, grey, green and khaki
80.60 - 81.00m	?Acid volcanic, flow banded
81.00 - 81.25m	Mudstone, cream
81.25 - 82.50m	Dolerite

END OF HOLE 82.50m

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940042

040

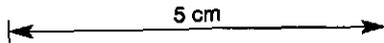
- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W36A Sheet 1 of 4

From 0 To 23.00 m

Scale (s) 1:100

Logged by TG Simmons 13/2/1981



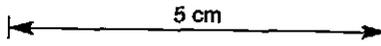
1	2	3	4	5	6	7	8	9	10	11	12	Comments
	PRE COLLAR											
6.00												Mudstone carbonaceous
6.60												Mudstone, grey/brown
7.50												Lithic arenite,
8.80												Mudstone - grey (fresh)
9.05												BASE OF OXIDATION
9.50												Siltstone, grey
10.50												Mudstone, grey
12.50												Siltstone - lithic arenite (fg) grey/brown.
18.50												Lithic arenite, grey

MULTIPURPOSE DRILL HOLE LOG

940043

041

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W36 A Sheet 2 of 4
 From 23.00 To 46.00 m
 Scale (s) 1:100
 Logged by 76 Summers 13/8/1987

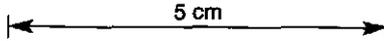
												Comments		
24														
26														
28														
30														
31.50														
32														
32.96														
34														
35.40														
36														
36.20														
36.37														
37														
38														
38.70														
39.20														
40														
42														
44														
46														

MULTIPURPOSE DRILL HOLE LOG

940045

043

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 36 A Sheet 4 of 4
 From 69.00 To 82.50 m
 Scale (s) 1:100
 Logged by T.G. Summers 13.2.19.87

		1	2	3	4	5	6	7	8	9	10	11	12	Comments
70 72 73.00 74 76 78 79 80 80.6 81.0 82 82.50 84 86 88	100			F			/							Lithic arenite, grey, minor coaly debris
														?? tuff / tuffaceous horizon in arenite - cream colored network with sand grains
														lithic arenite - as above
														Mudstone / siltstone, grey, green + khaki, interbedded; minor carbonaceous to dk green mudstone.
		100			F									Siltstone, silty mudstone, grey, cream mottled and paler green
								0 0						? chloritic aggregates
														Mudstone, cream/pale
														Acid / intermediate volcanic - quartzite flow banded
														Mudstone, cream, minor orange zeolite
					F									Dolerite - sharp drilled margin 81.25 - 82.50m.
														EOH - 82.50m

W37

- 0-8.00 m Precollar
- 8.00-10.68 m Lithic arenite, grey, medium grained, coaly + carbonaceous
mudstone debris (Base of Oxidation - 8.8 m)
- 10.68-11.23 m Mudstone, grey
- 11.23-11.95 m Coal, dull, 5% bright, no splits, minor calcite parallel to bedding
- 11.95-12.00 m Mudstone, carbonaceous
- 12.00-53.80 m Lithic arenite, grey/green, medium to coarse grained, coaly
debris + clay pellet conglomerate
- 53.80-53.95 m Coal, dull, heavy, < 1% bright
- 53.95-55.70 m Siltstone/lithic arenite/mudstone interbedded dark grey
- 55.70-55.76 m Mudstone, grey
- 55.76-55.94 m ? Mudstone, carbonaceous/ heavy dull coal
- 55.94-58.50 m Mudstone/siltstone, dark grey, interbedded minor coaly mud
- 58.50-62.40 m Lithic arenite, grey, medium grained, minor coaly debris
- 62.40-63.45 m Mudstone grey, very minor bands of coal
- 63.45-66.10 m Siltstone/mudstone, grey/pale brown, not embedded
- 66.10-81.30 m Lithic arenite, grey, medium grained, minor pale clay pellet
conglomerate
- 81.30-81.31 m ? Tuff, ? acid
- 81.31-85.25 m Mudstone/siltstone, cream/pale brown/grey, porcellanous and
kaolinitic
- 85.25-85.45 m Tuff, ? acid, (? vermiculite present)
- 85.45-86.30 m Siltstone, cream/pale brown/grey

END OF HOLE 86.30 m

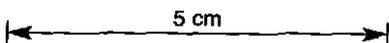
MULTIPURPOSE DRILL HOLE LOG

940047

045

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 37 Sheet 1 of 4
 From 0 To 23.00m
 Scale (s) 1:100
 Logged by T.G. Summers 8/7/1987



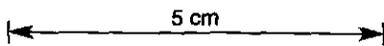
1	2	3	4	5	6	7	8	9	10	11	12	Comments
	PAU COLLAR											
8.00		FW										945 DF Oxidation
10.00		F										Lithic arenite, grey; coaly + carbonaceous mudstone debris
11.25												Mudstone, grey
11.50												Coal, heavy dull - D, <1% bright
12.00		F										Coal, dull - Dab, 5% bright, mineral lenses
13.00												Mudstone, carbonaceous Lithic arenite, dk. brown
14.00		F										
16.00												
18.00												
20.00												
22.00		F										Lithic arenite, grey/green; minor clay pellets + coaly debris

046

MULTIPURPOSE DRILL HOLE LOG

940048

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 37 Sheet 2 of 4

From 27-00 To 46-00 m

Scale (s) 1:100

Logged by T.G. Summers 8/7/1988

1	2	3	4	5	6	7	8	9	10	11	12	Comments	
24													
26													
28													
30													
30.65													
32													
32.2													
34													
36													
38													
40													
42													
44													
46													

Mudstone, carbonaceous/gray, clay pellet conglomerate and remnant source bed.

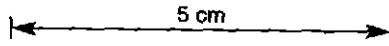
Lithic arenite, gray/green, minor clay pellets + coaly debris

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940049

047

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

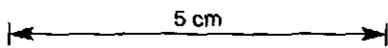


Hole No. W37 Sheet 3 of 4
 From 46-m To 69-m
 Scale (s) 1:100
 Logged by T.G. Summers 8/7/1987

												Comments	
48	10												
50		F											
52													
54													Mudstone, carbonaceous
55	10												
55.5													Mudstone carbonaceous
56													Siltstone dk. grey
56.5													Mudstone, carbonaceous + grey
57													Siltstone, grey
57.5		F											Mudstone, dk. grey, with interbeds of siltstone, grey bright coal bands 57.97-57.98m.
58													
60													Lithic arenite, grey, coaly debris with minor glauconitic rims
62													
62.4													Mudstone, grey; v. minor coal bands (23mm)
63	10												
64		F											Siltstone/mudstone, grey/pale brown, interbedded.
66													
68													Lithic arenite, grey, minor pale brown mudstone clay rich conglomerate (Coal debris absent)

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 37 Sheet 4 of 4
 From 69.00 To 86.30 m
 Scale (s) 1:100
 Logged by T.G. Summons 8/7/1987



1	2	3	4	5	6	7	8	9	10	11	12	Comments		
70	F				.							Lithic arenite, grey, minor pale mudstone pellets; (Coal debris absent).		
72					.									
74					.									
76					.									
78					.									
80					.									
81.30					.									
82					z	z								Mudstone, cream/v. pale brown, porcellanous; ? mafic tuff (15mm) 81.3 - 81.315 m; dk. green mottling 81.2 - 81.4 m; orange zeolite veins @ 81.6 m.
83.20														Mudstone/siltstone, cream - v. pale brown, interbedded
84		F												Mudstone, cream + dk. green / carbonaceous
85.20					z							Hard / intermediate tuff - green/cream, orange shales K orange? zeolite veins, ? vermiculite		
86												Siltstone, cream, green + v. pale brown.		
												EOH - 86.30m		

W38

0-6.30 m	Precollar
6.30-9.30 m	Lithic arenite, medium grained
9.30-11.00 m	Mudstone, grey, carbonaceous
11.00-11.90 m	Siltstone, grey (Base of Oxidation - 11.9 m)
11.90-47.60 m	Lithic arenite, grey/green, minor coaly debris, clay pellet conglomerate (including deformed carbonaceous mudstone clay pellet conglomerate with glauconite rims 29.4-30.2, 39.5-39.9 m)
47.60-50.40 m	Mudstone, grey banded
50.40-60.30 m	Lithic arenite, grey/green, minor coaly debris + clay pellet conglomerate (including deformed carbonaceous mudstone clay pellet conglomerate with glauconite rims 52.5-53.0 m)
60.30-61.50 m	Mudstone, grey/brown (? possibly including coal)
61.50-62.35 m	Coal, dull, average > 5% bright, no splits
62.35-62.70 m	Mudstone, buff, tuffaceous
62.70-63.70 m	Siltstone, buff, tuffaceous
63.70-92.00 m	Lithic arenite, pale grey, minor coaly debris
92.00-93.06 m	Coal, dull, ≈ 2% bright, 2 splits
93.06-94.00 m	Mudstone, grey
94.00-95.10 m	Coal, dull, ≈ 3% bright, 2 splits
95.10-99.15 m	Mudstone, grey, + siltstone grey
99.15-99.82 m	Coal, dull/heavy, < 1% bright, 2 splits (coal ≈ 50% of section)
99.82-100.10 m	Siltstone, grey
100.10-102.35 m	Lithic arenite, pale grey, medium grained.

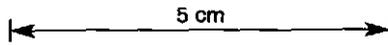
END OF HOLE 102.35 m

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940052

030

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



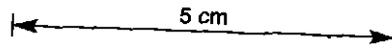
Hole No. W38 Sheet 1 of 5
 From 0 To 25.00m
 Scale (s) 1:100
 Logged by TG Summers 3/7/1981

1	2	3	4	5	6	7	8	9	10	11	12	Comments
	PRE COLLAR											
6-30		Z										Lithic arenite, grey, minor carbonaceous mudstone beds
11-00		MU										Siltstone, grey.
11-90		F										← BASE OF OXIDATION →
		F										Lithic arenite, grey/green

VICTOR EXPLORATION PTY. LTD. MULTIPURPOSE DRILL HOLE LOG

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralization/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 38 Sheet 3 of 5
 From 46-m To 69-m
 Scale (s) 1: 10
 Logged by T.S. SUTHERLAND 3/7/1987



1	2	3	4	5	6	7	8	9	10	11	12	Comments
100												
98												Mudstone, grey, banded; silty at base
97												
96												Lithic arenite, green
95												Mudstone, carbonaceous; minor lithic arenite interbeds
94												Lithic arenite, green
93												Clay pellet conglomerate - deformed carb. mudstone, glauconitic micropores - "lenticular rock"
92												Clay pellet conglomerate - green mudstone clasts; (arenite matrix)
91												
90												
89												Lithic arenite, grey/green minor coaly debris
88												
87												
86												Siltstone, carbonaceous; coaly debris
85												
84												Mudstone, grey/brown (Ka)
83												Coal, dull - dark; 20% bright; broken; (Ka)
82												Coal, dull - dark; 20% bright.
81												Coal, dull - dark; 20% bright.
80												Mudstone, buff, tuffaceous
79												Siltstone, buff, tuffaceous
78												
77												
76												
75												
74												
73												
72												
71												
70												
69												
68												
67												
66												
65												
64												
63												
62												
61												
60												
59												
58												
57												
56												
55												
54												
53												
52												
51												
50												
49												
48												
47												
46												

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940055

053

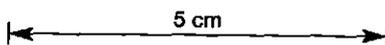
- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W38 Sheet 4 of 5

From 69.00 To 92.00 m

Scale (s) 1:100

Logged by TG Summers 3/7/1988



1	2	3	4	5	6	7	8	9	10	11	12	Comments
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 10px;">70</div> <div style="margin-bottom: 10px;">70</div> <div style="margin-bottom: 10px;">72</div> <div style="margin-bottom: 10px;">74</div> <div style="margin-bottom: 10px;">76</div> <div style="margin-bottom: 10px;">78</div> <div style="margin-bottom: 10px;">80</div> <div style="margin-bottom: 10px;">82</div> <div style="margin-bottom: 10px;">84</div> <div style="margin-bottom: 10px;">86</div> <div style="margin-bottom: 10px;">88</div> <div style="margin-bottom: 10px;">90</div> <div style="margin-bottom: 10px;">92</div> <div style="margin-bottom: 10px;">94</div> <div style="margin-bottom: 10px;">96</div> <div style="margin-bottom: 10px;">98</div> <div style="margin-bottom: 10px;">100</div> </div>		<p style="text-align: center;">F</p> <p style="text-align: center;">F</p> <p style="text-align: center;">F</p>										<p style="text-align: center;">Lithic arenite, palagony, minor coaly shown.</p>

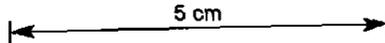
054

MULTIPURPOSE DRILL HOLE LOG

940056

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 38 Sheet 5 of 5
 From 92.00 To 102.35 m
 Scale (s) 1:100
 Logged by TG Sumner 3/7/1981



1	2	3	4	5	6	7	8	9	10	11	12	Comments
92.00												Coal, dull - D; < 1% bright
												Mudstone, carbonaceous/gray
												Coal, dull - Dmb, 2% bright; calcite veins - bedding
92.06												Shale, gray
		F										Coal, dull - Dmb, 3% bright
												Shale, carbonaceous
94.00												Mudstone, gray.
												Coal, dull - D; shale, buff, tuffaceous
												Coal, dull - Dmb; 5 3% bright. Shale, carbonaceous
95.00												Coal, dull - Dmb; 5 5% bright
												Mudstone, gray.
97.00												
98.00												Siltstone, gray
		F										
99.00												Mudstone, gray.
												Mudstone, carbonaceous
												Coal, heavy dull - D
99.80												Mudstone, gray
100.00												Mudstone/siltstone/arenite, dk gray. Shale, carbonaceous
102.00												Lithic arenite, pale gray.
102.35												
												ROH - 102.35 m.

W39

0-19.30 m Precollar (? Base of Oxidation < 19.30 m)
 19.30-22.54 m Lithic arenite, grey, minor coaly debris
 22.54-25.47 m Coal, dull, ? bright, 6 minor splits
 25.47-25.80 m Mudstone, brown, tuffaceous
 25.80-27.60 m Siltstone, grey/brown banded
 27.60-41.50 m Lithic arenite, grey/green, minor coaly debris + clay pellet
 conglomerate (including deformed carbonaceous mudstone clay
 pellet conglomerate with glauconite rims 41.0-41.20 m)
 41.50-41.90 m Coal, heavy dull
 41.90-42.00 m Shale, carbonaceous
 42.00-56.60 m Lithic arenite, grey/brown with ? baked/siliceous carbonaceous
 mudstone bands 46.95-47.10, 47.4-47.60 m, minor coaly debris +
 clay pellet conglomerate
 56.60-58.06 m Mudstone, grey tuffaceous and ? baked/siliceous carbonaceous
 58.06-58.55 m Coal, dull, ≈ 2% bright, 1 split
 58.55-59.14 m Mudstone, grey
 59.14-60.05 m Coal, dull, 3% bright, 2 splits
 60.05-61.60 m Mudstone, grey
 61.60-62.27 m Coal, dull, 5% bright, no splits
 62.27-63.50 m Mudstone, grey, banded
 63.50-78.40 m Lithic arenite, pale brown, with baked/siliceous carbonaceous
 mudstone bands 73.3-73.4 and 77.0-77.05 m
 78.40-79.80 m Mudstone, grey ⁺ carbonaceous
 79.80-91.05 m Lithic arenite, grey/green, minor clay pellet conglomerate
 91.05-91.22 m Mudstone, silty, grey
 91.22-91.73 m Coal, dull, < 1% bright, minor calcite veins normal to bedding 5'
 91.73-92.35 m Mudstone, carbonaceous
 92.35-97.55 m Lithic arenite, grey/green, medium grained
 97.55-97.58 m Tuff, ? acid
 97.58-97.90 m Lithic arenite, grey/green, medium grained
 97.90-98.00 m Tuff, ? acid
 98.00-103.3 m Lithic arenite, grey/green, medium grained
 END OF HOLE 103.30 m

MULTIPURPOSE DRILL HOLE LOG

940058

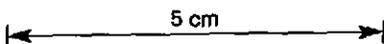
- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W39 Sheet 1 of 5

From 0 To 23.00 m

Scale (s) 1:100

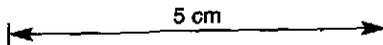
Logged by T.G. Summers 24/6/1981



1	2	3	4	5	6	7	8	9	10	11	12	Comments
	PRE COLLAR											
	PRE COLLAR											
												(BASE OF OXIDATION < 19.30 m).
		F										Lithic arenite, gray; minor coaly debris
												Coal, heavy dull - D; brecciated + cemented with calcite
												Coal, dull, - Dmb; 65% bright; brown mudstone split 22.98-23.03 m

VICTOR EXPLORATION PTY. LTD. MULTIPURPOSE DRILL HOLE LOG

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 6 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W39 Sheet 2 of 5
 From 23.00 To 46.00 m
 Scale (s) 1:100
 Logged by TG Summers 24/6/1981

Depth (m)	1	2	3	4	5	6	7	8	9	10	11	12	Comments
23.49													Coal, dull - Dmb, 8% bright
23.42													Coal, heavy dull - D
24													Coal, dull, - D; carbonaceous shale split 23.40-23.46m grey mudstone split 23.67-23.74m.
24.35													Mudstone, carbonaceous
													Coal, dull - Dmb; > 9% bright; mudstone carbonaceous
													Coal, dull - Dmb; > 5% bright; Coal heavy dull - D
													Coal, dull - D6; > 10% bright
25.20													Mudstone, brown (?bedded) (Mudstone, carbonaceous)
26													Siltstone, grey/brown, banded
27.6													
28													
30													
32.40													Mudstone clay pellet conglomerate, coaly debris
33.4													
34													
36													
36.0													
36.8													Mudstone clay pellet conglomerate, coaly debris
37.0													
37.2													
38													
40													
41.0													clay pellet conglomerate - deformed carbonaceous mudstone stinger glaucous matrix - "iron rock" (gradational contact)
41.2													
41.4													
41.6													
42													Coal, heavy dull - D. (Shale, carbonaceous)
42.6													Mudstone clay pellet conglomerate
43.6													Mudstone, carbonaceous - ? baked/silicified
44													Mudstone, carbonaceous - ? baked/silicified
44													Lithic arenite - grey/brown; minor coaly debris
46													

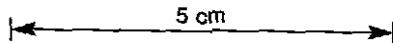
VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940060

058

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 39 Sheet 3 of 5
 From 46.00 To 69.00 m
 Scale (s) 1:100
 Logged by T. Summers 24/6/1987



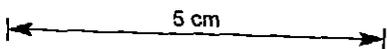
												Comments		
48														
50		F												Lithic arenite, gray/brown; minor craly debris
52														
54														
56		F												Mudstone clay pellet conglomerate
56.60														
58														Mudstone, gray, bentonitic.
58.40		F												Mudstone, carbonaceous - baked/silicified (Coal, dull -) Shale, buff - buffaceous Coal, dull - Dumb; 12 5% bright
59.40														Mudstone, gray Coal, heavy dull - (Shale, buff buffaceous) Coal, dull - Dumb
60.00		F												Coal, dull, - Dumb; 12 5% bright (Mudstone, gray)
61.60														Mudstone, gray
62.27		F												Coal, dull - Dumb; 12 5% bright
63.00														Mudstone, gray, banded
64														
66		F												Lithic arenite, pale brown
68														

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940061

059

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 39 Sheet 4 of 5
 From 69.00 To 92.00
 Scale (s) 1:100
 Logged by TG Simmons 24/6/1981

1	2	3	4	5	6	7	8	9	10	11	12	Comments	
70													
72													
73													
74		F											
76													
77													
78													
78.40													
79.00													
79.20		F											
79.50													
80.70													
81													
84													
86		F											
87.00													
87.50													
88													
90													
91.00													
91.40													
91.50													
91.55													
91.58													
91.59													
91.60													
91.62													
91.75													
91.80													
91.81													
91.82													
91.83													
91.84													
91.85													
91.86													
91.87													
91.88													
91.89													
91.90													
91.91													
91.92													
91.93													
91.94													
91.95													
91.96													
91.97													
91.98													
91.99													
92.00													

MULTIPURPOSE DRILL HOLE LOG

940062

060

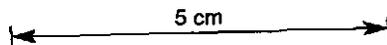
- | | |
|-------------------|--|
| 1 Sample recovery | 6 Mineralisation/Representative Fabric |
| 2 Rock type | 7 |
| 3 Rock condition | 8 |
| 4 Stratification | 9 |
| 5 Structure | 10 |
| | 11 |
| | 12 |

Hole No. W39 Sheet 5 of 5

From 92.00 To 103.30 m

Scale (s) 1:100

Logged by TK Summers 24/6/1981



		1	2	3	4	5	6	7	8	9	10	11	12	Comments
92.5														Mudstone, brown and carbonaceous
94	100		F											Lithic arenite, grey/green
96														f? tuff/tuffaceous arenite - cream clay with irregular brown (aminas (1-3 mm thick))
97														
100	100		F											Lithic arenite, grey/green.
102														
103.5														EGM - 103.30 m

W40

0-3.5 m Precollar

3.50-28.32 m Lithic arenite, grey, minor clay pellet conglomerate + mudstone bands (Base of Oxidation - 8.13 m)

28.32-29.00 m Coal, dull, 3% bright, 1 split, minor calcite veins, parallel and normal to bedding

29.00-29.03 m Mudstone, carbonaceous

29.03-32.77 m Mudstone + siltstone interbedded grey

32.77-81.19 m Lithic arenite, grey, coaly debris + clay pellet conglomerate

81.19-86.00 m Mudstone, grey, banded

86.00-88.48 m Coal, dull, ≈ 5% bright, 2 splits, red zeolite veins normal to bedding
2.48

88.48-89.60 m Mudstone, carbonaceous

89.60-89.71 m Coal, dull, ≈ 1% bright, 1 split, calcite veins normal to bedding

89.71-90.29 m Mudstone, carbonaceous

90.29-93.08 m Mudstone, dark grey, banded

93.08-95.34 m Siltstone, grey, banded

95.34-97.03 m Mudstone, grey and carbonaceous

97.03-97.64 m Tuff, ? acid, possibly water worked 97.03-97.30m, basal section 97.3-97.64m, is yellow coloured.

97.64-99.19 m Siltstone/mudstone, grey, interbedded red zeolite in mudstone joints

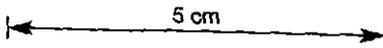
END OF HOLE 99.19 m

MULTIPURPOSE DRILL HOLE LOG

940064

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W40 Sheet 1 of 5
 From 0 To 23.0m
 Scale (s) 1:100
 Logged by J.O. Smith 24/6/1981



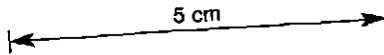
1	2	3	4	5	6	7	8	9	10	11	12	Comments
2	PAE COLLAR											
3.50												
4		F										
6		F										bititic arenite
8		F										BASE OF OXIDATION
10												
12												bititic arenite; grey; minor clay pedats.
14		F										
14.25												
15.1												Mudstone, grey.
16												
18												
20												
22		F										

064

MULTIPURPOSE DRILL HOLE LOG

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 40 Sheet 3 of 5
 From 46m To 69.20m
 Scale (s) 1:100
 Logged by J O Smith 24/6/19



1	2	3	4	5	6	7	8	9	10	11	12	Comments
48 60 8 2 18 2 6 18 64 68	[Dotted pattern]	F			[Dotted pattern]							Lithic arenite, grey; minor coaly debris, clay pebble conglomerates

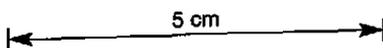
VICTOR EXPLORATION PTY. LTD. MULTIPURPOSE DRILL HOLE LOG

940067

065

- | | |
|-------------------|--|
| 1 Sample recovery | 6 Mineralisation/Representative Fabric |
| 2 Rock type | 7 |
| 3 Rock condition | 8 |
| 4 Stratification | 9 |
| 5 Structure | 10 |
| | 11 |
| | 12 |

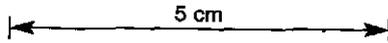
Hole No. W 40 Sheet 4 of 5
 From 69.00 To 92.00 m
 Scale (s) 1:100
 Logged by JD Smith 24/6/1981



1	2	3	4	5	6	7	8	9	10	11	12	Comments	
70													
72													
74		F											
74.5													Coal (and carbonaceous mudstone) clasts, rounded with /
74.8													(? "licorice rock") / glauconite
76													
78													lithic arenite, grey
80													
81.9		F											
82													
84													Mudstone, grey, banded
86													
87.04													Mudstone, carbonaceous; minor red zeolite joint in partings
87.04													Coal, dull - Dmb; waxy, bright; calcite + red zeolite veins
87.50													Mudstone, carbonaceous.
87.66		F											Mudstone, carbonaceous, bright coal bands (1mm) cut by red zeolite
88.01													Coal, heavy dull - Dmb; 1/2 bright; calcite + red zeolite
88.42													Coal, dull - Dmb; 3/4 bright; calcite + red zeolite
88.44													Siltstone, carbonaceous. Mudstone, carbonaceous
89.10													
89.66													Mudstone, carbonaceous + brown Coal, heavy dull - Dmb; Calcite veins
90													
90.29													Mudstone, carbonaceous
92													Mudstone, dk. grey, banded

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 40 Sheet 5 of 5

From 92.00 To 99.19 m

Scale (s) 1:100

Logged by JD Smith 24/6/1981

	1	2	3	4	5	6	7	8	9	10	11	12	Comments
92													Mudstone, dk. gray, banded.
93-08													
94													Siltstone, gray, poorly banded.
95-24													
96													Mudstone, carbonaceous + gray; red siltite 96.19-96.20
97-03													Mudstone, gray
97-64													? Intermediate tuff - green, clayey; ? large pyroclasts
98													? And volcanic - yellow/cream siliceous
98-79													Siltstone/mudstone, gray, interbedded
99-04													? glauconite cementation
99-19													red siltite on joint planes
													KOH - 99.19 m

067

W41

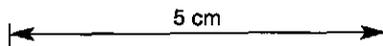
	0-6.0 m	Precollar
	6.00-9.76 m	Lithic arenite, medium grained
	9.76-11.50 m	Mudstone, grey, banded (Base of Oxidation - 9.8 m)
	11.50-12.25 m	Coal, dull, 2% bright, minor banding by calcite (parallel to bedding)
	12.25-13.10 m	Mudstone, carbonaceous
	13.10-16.55 m	Lithic arenite, grey, medium grained
2.85	16.55-19.40 m	Coal, dull, 3% bright, 2 splits, calcite + red zeolite veins normal to bedding
	19.40-22.75 m	Mudstone, carbonaceous
7	22.75-23.45 m	Coal, dull, 10% bright, calcite + red zeolite veins normal to bedding
	23.45-24.95 m	Mudstone, carbonaceous
A 8	24.95-25.43 m	Coal, dull, heavy <i>Mudstone, carbonaceous, with minor coalescences</i>
	25.43-25.54 m	Mudstone, carbonaceous
	25.54-30.04 m	Lithic arenite, grey/green, medium grained.
	30.04-30.54 m	Tuff, ? acid
	30.54- ^{35.83} 36.78 m	Lithic arenite, grey/green, minor coaly debris
	^{35.83} 36.78- ^{36.15} 36.93 m	Coal, dull, 1% bright <i>Mudstone, carbonaceous (? baked)</i>
	^{36.15} 36.93-45.80 m	Lithic arenite, green, carbonaceous laminae
	45.80-47.88 m	Mudstone/siltstone, interbedded banded
	47.88-49.40 m	Mudstone, carbonaceous
D-40	49.40-51.80 m	Coal, dull, < 1% bright, possibly 2 splits, calcite + red zeolite veins
	51.80-55.25 m	Mudstone, carbonaceous
1	55.25-55.35 m	Coal, dull, 15% bright, tr calcite veins
	55.35-57.68 m	Mudstone, carbonaceous
	57.68-58.39 m	Mudstone, grey
	58.39-59.67 m	Siltstone, grey
	59.67-61.09 m	Mudstone/siltstone interbedded, grey to carbonaceous, calcite veins ? ex dolerite
	61.09-67.68 m	Dolerite (? sill)
	67.68-68.68 m	Siltstone, dark grey to black/carbonaceous
	68.68-70.76 m	Lithic arenite, grey, medium grained
	70.76-73.00 m	Mudstone, grey, banded
3	73.00-73.53 m	Coal, dull, < 1% bright, minor calcite + red zeolite veins
	73.53-73.77 m	Mudstone, grey (+ carbonaceous)
	73.77-75.70 m	Lithic arenite, grey/green, medium grained
	75.70-76.50 m	Mudstone, grey
		END OF HOLE 76.50 m

VICTOR EXPLORATION PTY. LTD. MULTIPURPOSE DRILL HOLE LOG

940070

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 41 Sheet 1 of 4
 From 0 To 23.80 m
 Scale (s) 1:100
 Logged by TGS / Jos 24/6/1997

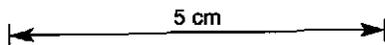


1	2	3	4	5	6	7	8	9	10	11	12	Comments
	PAE COLLAR											
6.00		MW										Lithic arenite
9.76		MW										BASE OF OXIDATION = 9.80 m.
11.00		F										Mudstone, grey, banded.
11.50		F										Coal, dull - Dmb; 2% bright; calcite lenses 4% - 11.75 m
12.25												Coal, dull - Db; 2.15% bright
13.10												Mudstone, carbonaceous
16.00												Lithic arenite, grey
17.05												Coal, dull - Dmb; 3% bright; calcite + red sandstone veins in joints
17.69												Mudstone, grey. Coal, dull - Db; 20% bright; calcite + red sandstone
18.04												Mudstone, grey. Mudstone, carbonaceous
18.25												Coal, heavy dull - D; <5% bright 18.90 - 19.00 m; calcite + red sandstone veins.
22.00												Mudstone, carbonaceous, fussy in part.
22.75												Coal, dull - Dmb; 4.10% bright.

VICTOR EXPLORATION PTY. LTD. MULTIPURPOSE DRILL HOLE LOG

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 41 Sheet 2 of 4
 From 23.20 To 46.00 m
 Scale (s) 1:100
 Logged by T.G.S. / J.S. 24/6/1982



		1	2	3	4	5	6	7	8	9	10	11	12	Comments
23.30				F										Coal, dull - Dmb; a 10% bright
24	73			F			100% coal							Mudstone, carbonaceous; calcite + red scapolite veins 23.30 - 23.45m.
24.45														Mudstone, carbonaceous + gray; minor coal laminae
25.45														Mudstone, carbonaceous
26				F										lithic arenite, gray/green
30	100													? Acid/intermediate tuff - cream, gray, pink, green, clayey
30.70														
32				F										lithic arenite, gray/green
34	100													
36								M						Mudstone, carbonaceous - ? baked / silicified
38														
40														
42	100			F										lithic arenite, green, carbonaceous laminae, clay pellets
44														
45.00	46													

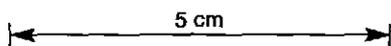
VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

070

940072

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 41 Sheet 3 of 4
 From 46.00 To 69.00 m
 Scale (x) 1:100
 Logged by THC / JDS 24/6/1981



1	2	3	4	5	6	7	8	9	10	11	12	Comments
												Mudstone/siltstone - interbedded; carbonaceous banding
48												47.88
		F										Mudstone, carbonaceous
49.40												49.40
49.85												49.85
50.30												50.30
50.70												50.70
51.10												51.10
51.45												51.45
51.70												51.70
57		F										Mudstone, carbonaceous.
58.27												58.27
58.57												58.57
58.59												58.59
59.47		F										Siltstone, gray.
60.15												60.15
60.59												60.59
60.59												60.59
62		F										Dolerite, pale green, fine grained; strongly jointed, numerous calcite joint in filling veins (Δ joints to 45°).
67.69												67.69
68												68.00
68.43												68.43
68.68												68.68

W43A

0-6.00 m Precollar
6.00-10.00 m Lithic arenite, medium grained (Base of Oxidation - 10.2 m)
10.00-12.10 m Mudstone, carbonaceous, crushed zone 10.6-10.9 m
12.10-12.90 m Coal, dull, 2% bright, 1 split
12.90-40.00 m Lithic arenite, grey, fine to medium grained, no coal debris
40.00-40.15 m Mudstone, pale brown
40.15-40.20 m Tuff, obsidian rhyolite
40.20-44.90 m Mudstone, grey/pink/pale brown, crushed zone 44.8-44.9 m
44.90-52.00 m Siltstone, grey/green
52.00-53.50 m Mudstone, grey/pale brown
53.50-54.90 m Siltstone, grey
54.90-55.80 m Mudstone, grey/khaki
55.80-56.00 m Tuff, (? intermediate) and tuffaceous mudstone
56.00-58.40 m Mudstone, grey/khaki
58.40-61.00 m Lithic arenite, grey, fine to medium grained
61.00-64.30 m Siltstone and silty mudstone, grey/green, crushed zones 61.30-62.00 m, and 63.2-63.6 m
64.30-70.00 m Lithic arenite, dark grey, minor siltstone

END OF HOLE 70.00 m

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

073

940075

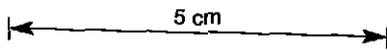
- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 43 A Sheet 1 of 3

From 0 To 23.00m

Scale (s) 1:100

Logged by T.G. Summers 10/7/1988



1	2	3	4	5	6	7	8	9	10	11	12	Comments
	PRE COLLAR											
2												
4												
6												6.0
7.0												7.0
8												
10												
10.20												10.20
10.20												10.20
10.60												10.60
10.60												10.60
10.90												10.90
10.90												10.90
11.0												
11.0												
11.30												11.30
11.30												11.30
11.50												11.50
11.50												11.50
11.80												11.80
11.80												11.80
12.0												
14												
16												
16.6												
18												
20												
22												

VICTOR EXPLORATION PTY. LTD. MULTIPURPOSE DRILL HOLE LOG

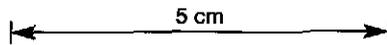
- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 43 A Sheet 2 of 3

From 23.00 To 46.00m

Scale (s) 1:100

Logged by TG Summers 10/17/1980



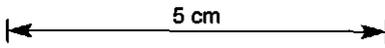
												Comments
24	24.70	100										Mudstone clay pebble conglomerate
26			F									
28												
30	30	100										Lithic arenite, dk. gray.
32												
34	34.4		F									
36		100										
38												
40	40.75											{? Obsidian rhyolite - black, siliceous with ? flattened white shreds
42	43		F									Mudstone, red brown, gray, pink. minor siltstone.
44												
46	77											Crushed zone, calcite matrix to porphyroclasts Mudstone, silty, grey/green.

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940077

075

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 43 A Sheet 3 of 3
 From 46-00 To 70-00 m
 Scale (s) 1:100
 Logged by TC Summers 10/7/1988

		1	2	3	4	5	6	7	8	9	10	11	12	Comments
46.70														
47	97			F										Siltstone, grey/green
49.30														
50	100													Lithic arenite, grey/pale green minor siltstone
52														
52.50	90													Mudstone, grey/pale-brown
54				F										lithic arenite, grey; minor siltstone
54.90														
56	67													Mudstone, grey/khaki, banded ? mafic tuft - dk green, white? shards
58														
58.40	77			F										Mudstone, grey/khaki, banded
60														Lithic arenite, grey; calcite veins
61.00														
61.20														Siltstone, grey/green
62														Crushed Zone, calcite matrix
63	100													Siltstone, grey/green
63.20														Crushed Zone
64														
64.30														Mudstone, silty, grey/green
66				F										Lithic arenite, dk. grey, banded; orange zoelite in joints
67.00	100													Siltstone, grey
67.20														
68														Lithic arenite, grey/green, banded
69.70														

076

940078

W46

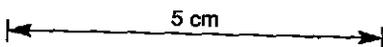
0-13.50 m Precollar (? Base of Oxidation 13.50 m)
 13.50-18.30 m Lithic arenite, grey, minor coaly debris, clay pellet conglomerate
 18.30-18.36 m Mudstone, buff, tuffaceous
 193 18.36-20.76 m Coal, dull, \pm 10% bright, 4 splits, minor calcite veins 37.6
 20.76-21.75 m Mudstone, brown/grey
 21.75-55.96 m Lithic arenite, grey/green, minor coaly debris, clay pellet conglomerate (including deformed carbonaceous mudstone fragments with glauconite rims 35.90-36.24 m tr. pyrite), minor mudstone + siltstone bands
 55.96-56.96 m Mudstone, grey/brown, ? tuffaceous
 56.96-57.46 m Coal, dull, < 2% bright, 1 split, (very bad core recovery) 50
 57.46-59.90 m Mudstone, grey, banded, minor siltstone 1.44
 59.90-61.48 m Coal, dull, > 5% bright, 2 splits 32
 61.48-62.97 m Mudstone/siltstone grey, interbedded and banded mudstone.
 62.97-91.85 m Lithic arenite, grey/green, coaly debris + clay pellet conglomerate
 91.85-92.45 m Coal, dull, 5% bright, minor red zeolite veins normal to bedding 437
 92.45-92.80 m Mudstone, carbonaceous
 92.80-93.49 m Mudstone, grey banded and tuffaceous
 93.49-95.49 m Mudstone/siltstone, grey, interbedded
 95.49-99.88 m Lithic arenite, dark grey + ? bleached, medium grained
 END OF HOLE 99.88 m

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940079

077

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 46 Sheet 1 of 5
 From 0 To 23.00m
 Scale (s) 1:100
 Logged by JD Smith 12/6/1981

1	2	3	4	5	6	7	8	9	10	11	12	Comments
2												
4												
6												
8												
10												
12												
13.10												
14		F										
16	100											
18												
18.36												
19.10		F										
19.27												
19.71	92											
19.71												
20.1												
20.7												
21.75	100	F										
22												

PRE COLLAR

(BASE OF OXIDATION < 13.50m).

Lithic arenite, grey; minor coaly debris and clay pellets.

Coal, dull - dark brown, brown + carbonaceous
 Coal, dull - dark brown, brown + carbonaceous
 Mudstone, carbonaceous
 Coal, heavy dull - dark brown, bright, blocky
 Coal, dull - dark brown, bright
 Mudstone, buff
 Coal, dull - dark brown, bright
 Coal, heavy dull - dark brown, bright
 Coal, dull - dark brown, bright
 Coal, dull - dark brown, bright

Mudstone, brown/grey. * { 19.62-19.71m: Coal, dull - dark brown, bright }
 { 19.71-19.79m: Coal, heavy dull - dark brown, bright }

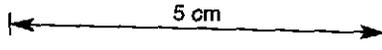
Lithic arenite, grey/brown.

078

MULTIPURPOSE DRILL HOLE LOG

940080

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 46 Sheet 2 of 5

From 23.00 To 46.00 m

Scale (s) 1:100

Logged by J.D. Smith 12/6/1981

1	2	3	4	5	6	7	8	9	10	11	12	Comments		
24														
26														
28		F												
30														
32														
34														
36														
36														
38			F											
40														
42														
44														
46														

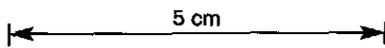
*Lithic arenite, grey/green; minor
 coaly debris (laminae/fragments),
 minor clay pellets.*

*Clay pellet conglomerate of deformed carbonaceous mudstone,
 set in glauconitic matrix. pyritic.
 ("licorice rock")*

*Lithic arenite, grey/green; coaly debris,
 and clay pellet conglomerates*

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 6 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 46 Sheet 3 of 5
 From 46.00 To 69.00 m
 Scale (s) 1:100
 Logged by JDS mth 12/6/1981



1	2	3	4	5	6	7	8	9	10	11	12	Comments
48												
49.33												
49.61												
50												
50.16												
52												
54												
56												
56.92												
57.46												
58												
58.82												
59.57												
59.90												
60												
60.68												
61.48												
62												
62.51												
62.97												
64												
66												
68												

Mudstone, grey, banded.
Siltstone, grey.

Lithic arenite, grey/green; minor
coaly debris, clay pellets.

? Acid tuff
Mudstone, grey/brown. Coal, dull - D.
Siltstone, brown
Coal, dull - D.

Mudstone, grey (? tuffaceous)

Mudstone / siltstone, grey-brown

Mudstone, grey, finely laminated
Coal, dull - D; 2% bright
Mudstone, buff/grey Coal, lustrous dull - D
shale, carbonaceous
Coal, dull - D; 2% bright
Coal, dull - D; 2% bright

Mudstone, carbonaceous and red-brown.

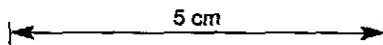
Siltstone, grey/brown, banded

Mudstone, grey + clay pellet conglomerate

Lithic arenite, grey; v. minor coaly
debris, clay pellets.

VICTOR EXPLORATION PTY. LTD. MULTIPURPOSE DRILL HOLE LOG

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 46 Sheet 4 of 5
 From 69.00 To 92.00 m
 Scale (s) 1:100
 Logged by J.D. Smith 12/6/1981

												Comments			
70	100														
72															
74			F												
74.9															
74.9															
76															
78															
80		100													
82															
84				F											
86															
88															
90															
92															
91.2															
91.2															
91.2															
92															

Siltstone, dk. gray.

Lithic arenite, gray; minor coaly debris + clay pellets.

Mudstone gray
 Lithic arenite, gray.
 Coar. heavy sand - 75% and siltstone - 25%

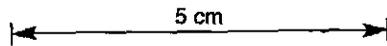
VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

081

940083

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W46 Sheet 5 of 5
 From 92.09 To 99.88 m
 Scale (s) 1:100
 Logged by JD Smith 12/6/1988



	1	2	3	4	5	6	7	8	9	10	11	12	Comments
92													
92.09			F			//p ²							Coal, heavy dull -D; red soilite veins
92.5													Mudstone, carbonaceous
93													Mudstone, dk gray banded
93.10													Mudstone, ? brown, ? siltyaceous
93.49													Siltstone, dk. gray
94													Mudstone, gray
94.58													Mudstone/Siltstone, gray, interbedded.
95.49													
96													
100													lithic arenite, dk. gray
98			F										
98.95													lithic arenite, pale gray (? bleached)
99.88													EOH - 99.88 m

W47

0-3.00m.	Precollar
3.00-4.10m.	Coil, clay (overburden)
4.10-37.03m.	Lithic arenite, grey, medium grained to coarse grained, variable coaly debris, clay pettet conglomerate (including deformed carbonaceous mudstone fragments with glauconite rims 27.05-27.10m.) + coaly laminae; (base of oxidation 10.17m.)
37.03-38.90m.	Mudstone, brown/grey with calcite + red zeolite on joints.
38.90-42.07m.	Mudstone, carbonaceous, dark grey
42.07-43.62m.	Mudstone, siltstone, dark grey, interbedded
93 43.62-44.93m.	Coal, dull, ~5% bright, 3 splits, calcite veins
44.93-45.00m.	Mudstone, carbonaceous
45.00-52.34m.	Mudstone/siltstone, grey, interbedded
52.34-76.31m.	Lithic/arenite, grey, medium to coarse grained, minor coaly debris/laminae, clay pellet conglomer.
76.31-76.54m.	Mudstone, dark grey
92 76.54-77.13m.	Coal, dull, ~1% bright, no splits, calcite veins
77.13-77.53m.	Mudstone, carbonaceous(± coal)/heavy dull coal?
77.53-79.55m.	Mudstone, grey with minor siltstone
79.55-80.50m.	Lithic arenite, grey, fine grained
80.50-82.32m.	Mudstone/siltstone, grey, interbedded
82.32-85.46m.	Lithic arenite, grey, medium grained
85.46-87.63m.	Mudstone, carbonaceous/dark grey
87.63-87.69m.	Coal, heavy dull
87.69-89.16m.	Mudstone, carbonaceous
89.16-95.28m.	Lithic arenite, grey, fine to medium grained, minor coaly debris, clay pellet conglomerate.
	END OF HOLE 95.28m.

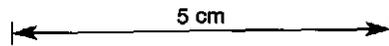
VICTOR EXPLORATION PTY. LTD. MULTIPURPOSE DRILL HOLE LOG

940086

084

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. V 47 Sheet 2 of 5
 From 23.00 To 46.00m
 Scale (s) 1:100
 Logged by JD Smith 18/6/1987



1	2	3	4	5	6	7	8	9	10	11	12	Comments
24	100				|||							
26					|||							
28		F			|||							
30					|||							
32	100				|||							
34		F			|||							
36					|||							
37.00												
38					|||							
38.90	100				|||							
39.50					|||							
40					|||							
41.40		F			|||							
42					|||							
42.60					|||							
43.60					|||							
44					|||							
44.19	100				|||							
44.51					|||							
44.80					|||							
45					|||							

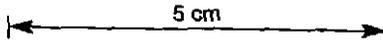
Lithic arenite, grey; sandy debris/laminar

Mudstone, brown/grey
 Mudstone, carbonaceous
 Mudstone, brown/grey; calcite + red zeolite joint infillings
 Mudstone, carbonaceous
 Mudstone, dk. grey, banded
 Mudstone, carbonaceous
 Mudstone, dk. grey; (? tuffaceous 40.87-41.00)
 Mudstone, carbonaceous; minor bright coal band
 Mudstone, dk. grey
 Siltstone, dk. grey
 Mudstone, dk. grey/carbonaceous, banded
 Coal, heavy dull - D; calcite veins
 Mudstone, brown/grey
 Coal, heavy dull - D; calc. mudstone splits 44.05-44.07, 44.17-44.19
 Coal, dull, - Dmb; 5% bright; calcite (3mm wide)
 Coal, dull, - D; 20% bright; calc. mudstone split 44.54-44.61
 Coal, heavy dull - D; Mudstone, carbonaceous
 Mudstone, grey

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. 647 Sheet 4 of 5
 From 69.00 To 92.00 m
 Scale (s) 1:100
 Logged by JDSmith 18/6/1981



												Comments					
70																	
72																	
74																	
76																	
76.51																	
76.54																	
76.58																	
77.01																	
77.53																	
78																	
79																	
79.45																	
80																	
80.50																	
82																	
82.52																	
84																	
85.46																	
86																	
86.60																	
87																	
87.61																	
89																	
89.16																	
90																	
92																	

088

W48

0-3.00m. Precollar

3.00-21.00m. Lithic arenite, grey/green, medium grained, coaly debris (+ glauconite rims and clay pellet conglomerate; Base of Oxidation 8.2m.)

21.00-24.55m. Lithic arenite, green, medium grained with deformed carbonaceous mudstone fragments, rimmed with glauconite

24.55-36.00m. Lithic arenite, grey, medium grained, minor coaly debris + clay pellet conglomerate

36.00-36.03m. Shale, carbonaceous and tuffaceous

36.03-36.33m. Coal, dull, 1% bright, 1 split

36.33-37.27m. Mudstone, green/grey, tuffaceous

37.27-37.58m. Lithic arenite, grey, medium grained, coaly debris + clay pellet conglomerate

37.58-39.06m. Coal, dull, 5% bright, 2 splits *← This appears as a core loss in the graphitic lag*

39.06-40.10m. Mudstone, grey/brown, tuffaceous

40.10-42.70m. Mudstone/siltstone, grey/green, tuffaceous

42.70-44.02m. Mudstone, grey/brown, banded

44.02-45.06m. Coal, dull, <1% bright, 1 split

45.06-46.40m. Siltstone, grey/brown, minor mudstone

46.40-48.36m. Lithic arenite, grey/green, medium grained

48.36-49.70m. Mudstone/siltstone, grey/brown interbedded

49.70-51.70m. Mudstone, grey/brown and carbonaceous

51.70-53.05m. Mudstone/lithic arenite (fine grained), grey, interbedded

53.05-84.26m. Lithic arenite, grey/green, medium grained, minor coaly debris + clay pellet conglomerate (+ glauconite rims)

84.26-84.35m. Mudstone, grey

84.35-85.15m. Coal, dull, 4% bright, ? no splits

85.15-86.20m. Mudstone, grey/carbonaceous 1.05

86.20-88.35m. Mudstone/siltstone. grey/brown/carbonaceous, interbedded

88.35-90.00m. Mudstone, grey

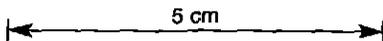
END OF HOLE 90.00m.

089

MULTIPURPOSE DRILL HOLE LOG

940091

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 48 Sheet 1 of 4

From 0 To 23.00 m

Scale (s) 1:100

Logged by T.G. Simmons 17/6/1981

1	2	3	4	5	6	7	8	9	10	11	12	Comments
2	PK 15 COLLAR											
4												
6	100											
8												
10												
12	100											
14												
16												
18	100											
20												
22												
24												
26												
28												
30												
32												
34												
36												
38												
40												
42												
44												
46												
48												
50												
52												
54												
56												
58												
60												
62												
64												
66												
68												
70												
72												
74												
76												
78												
80												
82												
84												
86												
88												
90												
92												
94												
96												
98												
100												

Lithic arenite

BASE OF OXIDATION

Lithic arenite, gray/green

Lithic arenite, gray/green;
minor coaly debris + clay
pellet conglomerates;
glaucous rims to fragments.

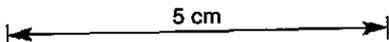
Clay pellet conglomerate - deformed carbonaceous
mudstone clasts, rimmed with, and set
in a glauconitic matrix
("licorice rock")

090

MULTIPURPOSE DRILL HOLE LOG

940092

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W48 Sheet 2 of 4
 From 23-00 To 46-00
 Scale (s) 1:100
 Logged by TL. Summers 17/6/1981

1	2	3	4	5	6	7	8	9	10	11	12	Comments
24												
24-25												
26												
27		F										
30												
31												
34												
36-37		F										
36-37												
37-37												
38												
38-37												
40												
42												
42-40												
44												
44-44												
45-45												
46												

lentic arenite, grey; minor coaly debris.

Coal, heavy dull - D₂ Mudstone, black & white (laminate)
 Shale, carbonaceous

Mudstone, green/grey, bentonitic
 Lentic arenite, grey; coaly debris

CORE LOSS
 Shale, buff

Coal, heavy dull - D₂
 Mudstone, grey/white

Coal, dull - D_{mb}; 45% bright
 Mudstone, grey/brown, bentonitic

Mudstone/Siltstone, grey, interbedded

Mudstone, green, to 5% pyrite, minor ferruginous siltstone

Mudstone, grey/brown, poorly banded.

Coal, dull - D₂
 Mudstone, brown/grey/green
 Mudstone, carbonaceous

Coal, dull - D_{mb}; minor calcite on joints
 Siltstone, brown/grey; carbonaceous laminae

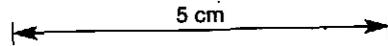
Siltstone/mudstone, grey/brown, interbedded.

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940093

091

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 48 Sheet 3 of 4

From 46.0 To 69.0

Scale (s) 1: 100

Logged by TL Summers 17/6/1981

		1	2	3	4	5	6	7	8	9	10	11	12	Comments
46.40	10													Lithic arenite, gray/green.
48 49.2														Mudstone / siltstone / arenite, gray/brown
49.70 50				F										Mudstone, gray/brown, finely laminated
51.70 52														Mudstone / lithic arenite (Pg) - gray/brown
53.00 54	10													Lithic arenite, gray/green; minor - coaly debris, clay pellets
56														
57				F										
60 60.40 61.20														Mudstone clay pellet conglomerate, including a single large fragment of coal (brown)
62	8													
64														
66														
68				F										

W49

0-6.00 m Precollar

6.00-29.05 m Lithic arenite, grey/green, medium grained, coaly debris + clay pellet conglomerate (including deformed carbonaceous mudstone fragments with glauconite rims 23.4-23.70 m). (Base of Oxidation - 12.40 m)

29.05-33.25 m Coal, dull, \approx 1% bright, 2 splits, minor calcite veins normal to bedding

33.25-48.05 m Lithic arenite, grey/brown, medium grained, coaly laminae + fragments

END OF HOLE 48.05 m

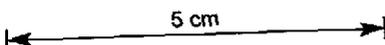
MULTIPURPOSE DRILL HOLE LOG

940096

094

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

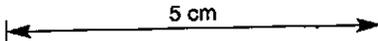
Hole No. W 49 Sheet 1 of 3
 From 0 To 23.00m
 Scale (s) 1:100
 Logged by TG Summers 25/6/1981



1	2	3	4	5	6	7	8	9	10	11	12	Comments
2	PRECOLLAR											
4												
6												
8	L100	F										Lithic arenite, minor coaly laminae
10												
12	L100	F										BASE OF OXIDATION
14												Siltstone, grey
16	L100	F										litic arenite, grey/green minor coaly debris
18												
20	L100	F										Grey/green mudstone clay pebbled conglomerate
22												

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

- 1 Sample recovery 6 Mineralisation/Representative Fabric
- 2 Rock type 7
- 3 Rock condition 8
- 4 Stratification 9
- 5 Structure 10
- 11
- 12



Hole No. W 49 Sheet 3 of 3
 From 46.00 To 48.05 m
 Scale (s) 1:100
 Logged by TG Summers 25/6/1981

												Comments	
1	2	3	4	5	6	7	8	9	10	11	12		
46													Lithic arenite, gray/brown coaly laminae and fragments 47.2-47.80m.
47.20													
47.80													EOM - 48.05 m
48													

W50

0 - 37.70m Precollar - oxidised and fresh, medium grain size dolerite
37.70 - 64.00m Dolerite, medium grain size,

END OF HOLE 64.00m

W68

0 - 6.00m Precollar (oxidised and broken dolerite)
6.00 - 33.50m Dolerite, oxidised and fresh (green/grey), medium grain size;
extremely broken as a result of close spaced vertical joints;
jointing may indicate chilling effects as the margin of a
dolerite sheet.

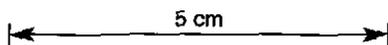
END OF HOLE 33.50m

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940100

098

- 1 Sample recovery 6 Mineralisation/Representative Fabric
- 2 Rock type 7
- 3 Rock condition 8
- 4 Stratification 9
- 5 Structure 10
- 11
- 12



Hole No. W 50 Sheet 1 of 1

From 0 To 64.00 m

Scale (s) 1: 500

Logged by TG Swainson 3/7/1981

1	2	3	4	5	6	7	8	9	10	11	12	Comments
	PAG COLL. FR.											
37.70												Dolerite, gray/green, medium grain size
64.00												EOH - 64.00 m.

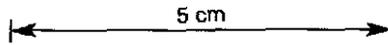
W60

0-11.00 m Precollar (including coal ? 10.0-11.0 m)
11.00-11.90 m Coal, dull, 3% bright, broken, 1 split
11.90-12.35 m Mudstone, grey (Base of Oxidation 11.90 m)
12.35-14.20 m Siltstone, grey, carbonaceous laminae
14.20-19.50 m Mudstone, grey/carbonaceous, banded
19.50-22.00 m Lithic arenite, pale grey/green, mudstone laminae
22.00-28.00 m Mudstone, carbonaceous/grey, banded
28.00-30.20 m Siltstone and silty mudstone, pale grey
30.20-31.25 m Mudstone, pale grey/green
31.25-31.45 m Tuff, altered, (? acid)
31.45-32.65 m Siltstone, pale cream, tuffaceous
32.65-33.75 m Mudstone, grey
33.75-34.00 m Tuff, altered (? acid) and tuffaceous mudstone
34.00-44.90 m Siltstone/mudstone, grey/green, interbedded
44.90-52.50 m Siltstone, grey/green, minor lithic arenite
52.50-53.20 m Mudstone, grey/green/pink, (? red bed)
53.20-53.50 m Tuff, (? acid)
53.50-56.00 m Siltstone, pink/brown (? red bed)
56.00-56.20 m Tuff, (? acid)
56.20-61.00 m Siltstone, pink/brown (? red bed)

END OF HOLE 61.00 m

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 60 Sheet 1 of 3
 From 0 To 23.00m
 Scale (s) 1:100
 Logged by TG Summers 10/6/1981

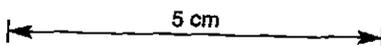
												Comments	
2													
4													
6													
8													
10													
11.00													Coal, dull - D
11.00													Mudstone, carbonaceous
11.90													Coal, dull - D
12.00													Mudstone, grey
12.95													Siltstone and lithocarbonate (Pg); carbonaceous laminae
14													Mudstone, grey, banded
14.70													Mudstone, carbonaceous
16													
16.40													
18													Mudstone, grey
19													
19.50													
20													Lithic arenite, pale grey/green; 2mm wide mudstone interbeds
22													Mudstone, carbonaceous, calcite veins
22.00													
22.15													Mudstone, grey, banded.
73													

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940103

101

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. 46 Sheet 2 of 3

From 23.00 To 46.00 m

Scale (s) 1:100

Logged by T. Summers 10/6/1981

		1	2	3	4	5	6	7	8	9	10	11	12	Comments
24	73													Mudstone, grey; banded.
26	80													
27.65														Mudstone, carbonaceous; orange red/2a veins
28														
30	90													Siltstone, grey; minor silty mudstone
30.20														
31.25														Mudstone, pale green/grey.
32														? weathered acid tuff - cream clay
32.65														
32.65	100													Siltstone, cream; bentonitic
33.75														
34														Mudstone, grey
34.00														? Acid tuff - white, large pyroclasts
36														
38														
40	100													Siltstone / Mudstone, grey/green; interbedded.
40.30														
42														
44														
44.90														Mudstone / l. silic. arenite (fg), grey/green interbedded.
46														
														Siltstone, grey/green

W61

0-6.00 m Precollar

6.00-25.05 m Lithic arenite, grey/green, medium grained, minor mudstone bands, clay pellet conglomerate (Base of Oxidation - 8.0 m)

25.05-25.30 m Mudstone, grey

25.30-26.13 m Coal, dull, 5% bright

26.13-26.65 m Shale, brown, tuffaceous

26.65-27.55 m Mudstone, grey/brown

27.55-28.25 m Siltstone, brown

28.25-29.55 m Lithic arenite, pale brown, medium grained

29.55-29.65 m Mudstone, grey/brown

29.65-31.85 m Coal, dull, ± 2% bright, 2 splits, minor calcite veins, normal to bedding

31.85-32.33 m Mudstone, carbonaceous

32.33-33.87 m Mudstone, grey.brown

33.87-69.35 m Lithic arenite, grey/brown, medium grained, coaly debris, clay pellet conglomerate, glauconite rims to coaly fragments
56.8-57.0, minor mudstone bands

69.35-69.88 m Mudstone, carbonaceous

69.88-71.64 m Coal, dull, 5% bright, 1 split, calcite + red zeolite veins normal to bedding

71.64-72.35 m Mudstone, carbonaceous

72.35-72.42 m Coal, dull, 1% bright, calcite + red zeolite veins normal to bedding

72.42-72.72 m Mudstone, dark grey, silty

72.72-73.80 m Mudstone, grey/brown

73.80-74.00 m ? Tuff., ? mafic

74.00-74.30 m Mudstone, grey/brown

74.30-76.90 m Lithic arenite, pale grey/cream, fine to medium grained, pale cream mudstone in clay pellet conglomerate + silt pellet conglomerate

76.90-81.30 m Mudstone, pale brown/khaki, minor orange zeolite on joints

81.30-83.70 m Lithic arenite, pale grey/cream, fine grained

83.70-85.70 m Mudstone, pale brown/khaki, silty

85.70-85.80 m Tuff, banded grey and white (? acid)

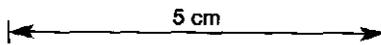
85.80-86.90 m Mudstone, cream, porcellanous

86.90-87.35 m Lithic arenite, pale, medium grained

87.35-88.70 m Siltstone, grey

END OF HOLE 88.70 m

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 61 Sheet 1 of 4

From 0 To 23.00 m

Scale (s) 1:100

Logged by T.G. Simmons 25/6/1981

												Comments	
2													
4													
6													
8													
10													
12													
12.50													
13.00													
14													
16													
18													
18.50													
20													
22													
22.50													

BASE OF OXIDATION

Mudstone, brown, silty
Mudstone clay pebble conglomerate

Lithic arenite, grey/green.

Mudstone, clay pebble conglomerate

Mudstone, grey/brown, banded

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940109

107

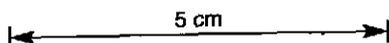
- | | |
|-------------------|--|
| 1 Sample recovery | 6 Mineralisation/Representative Fabric |
| 2 Rock type | 7 |
| 3 Rock condition | 8 |
| 4 Stratification | 9 |
| 5 Structure | 10 |
| | 11 |
| | 12 |

Hole No. W 61 Sheet 4 of 4

From 69.00 To 88.70 m

Scale (s) 1:100

Logged by T.G. Simmons 25/6/1981



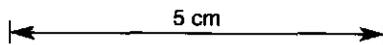
		1	2	3	4	5	6	7	8	9	10	11	12	Comments
69.35														Mudstone, carbonaceous
70														Mudstone, carbonaceous; calcite + red zeolite veins
70.4	100													Coal, heavy dull - D; calcite + red zeolite veins
70.8			F											Mudstone, carbonaceous
71.2														Shale, carbonaceous; bright coal (lenses); red zeolite
71.6														Coal, heavy dull - D; calcite + red zeolite veins
72														Mudstone, carbonaceous, fossiliferous
72.4														Siltstone, carbonaceous
72.8														Mudstone, carbonaceous + heavy dull coal; calcite, red zeolite
73.2														Mudstone, dk. gray, silty
73.6														Mudstone, gray/brown, banded
74														* Matrix stuff - chlorite matrix, pyrite crystals < 1mm
74.4														Mudstone, gray/brown, banded
76	100		F											
78														
80			F											
82														
84	100													
86														
88														
88.70														
														EDM - 88.70m

W 63

0 - 12.62m	Precollar	
12.62 - 13.20m	Lithic arenite	(Base of Oxidation 13.20m)
13.20 - 15.00m	Mudstone/siltstone, grey	
15.00 - 16.20m	Coal, dull, 3% bright, 1 split	
16.20 - 17.33m	Siltstone, grey	
17.33 - 40.00m	Lithic arenite, grey	
40.00 - 40.90m	Crushed zone in coal, and grey, carbonaceous mudstone	
40.90 - 41.60m	Siltstone, grey/green	
41.60 - 43.20m	Crushed zone in siltstone and mudstone	
43.20 - 43.70m	Tuff - ?acid/intermediate	
43.70 - 43.85m	Mudstone, grey/brown	
43.85 - 44.55m	Dolerite	

END OF HOLE 44.55m

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 63 Sheet 2 of 2
 From 23.00 To 44.55
 Scale (s) 1:100
 Logged by 76 Swanson 17/7/1981

1	2	3	4	5	6	7	8	9	10	11	12	Comments
100												
24.00												
24.50												
26.00												
27.00												
28.00												
30.00												
32.00												
33.00												
34.00												
36.00												
38.00												
40.00												
40.50												
40.75												
41.00												
41.50												
42.00												
42.50												
43.00												
43.50												
44.00												
44.55												

Siltstone, gray.

Lithic arenite, gray/pale gray; broken.

Coal + mudstone, carbonaceous } Crushed/sheared zone
 Mudstone, gray

Siltstone, gray/green, broken } Lithic arenite, gray

Crushed zone in siltstone/mudstone }
 very broken, (contact angles not intact)
 Mudstone, gray/green } Crushed zone in each case

? Acid/intermediate tuff - cream, gray, green, pink, banded
 Mudstone, gray/brown

Dolomite

EOH - 44.55 m

111
W64A

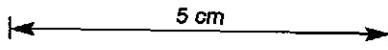
0-6.00 m	Precollar
6.00-29.75 m	Lithic arenite, grey, medium grained, minor coaly debris (Base of Oxidation 9.5 m)
29.35-30.65 m	Mudstone, grey/brown, tuffaceous
30.65-30.75 m	Mudstone, carbonaceous, ? coal, heavy dull
30.75-30.79 m	Coal, dull, < 1% bright
30.79-30.85 m	Mudstone/shale, carbonaceous
30.85-30.94 m	Coal, dull, \approx 1% bright, calcite veins normal to bedding
30.94-30.97 m	Mudstone, carbonaceous
30.97-31.25 m	Mudstone, grey
31.35-31.41 m	Coal, dull, brittle, \approx 3% bright
31.41-31.80 m	Mudstone, grey
31.80-35.56 m	Mudstone/siltstone, grey/carbonaceous, banded
35.56-35.59 m	? Tuff, ? acid/intermediate
35.59-37.20 m	Siltstone/mudstone, grey
37.20-38.20 m	Mudstone, grey, laminated
38.20-38.25 m	Coal, dull, \approx 1% bright, calcite veins parallel to bedding
38.25-38.45 m	Shale, carbonaceous/green, tuffaceous
38.45-38.75 m	Coal, dull, broken/flakey, \approx 1% bright
38.75-42.65 m	Siltstone, grey, banded
42.65-42.88 m	Mudstone, grey
42.88-42.98 m	Coal, dull, broken, 2% bright
42.98-43.00 m	Mudstone, carbonaceous
43.00-48.10 m	Siltstone/mudstone, grey, banded
48.10-52.50 m	Lithic arenite, grey, medium grained
	END OF HOLE 52.50 m

MULTIPURPOSE DRILL HOLE LOG

940114

112

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 64 A Sheet 1 of 3

From 0 To 23.25 m

Scale (s) 1:100

Logged by TGS 14/7/1981

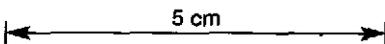
1	2	3	4	5	6	7	8	9	10	11	12	Comments
2	PRE COLLAR											
4												
6												
8		MW										lithic arenite
9.50												BASE OF OXIDATION
10		F										
12												
14												lithic arenite, grey; minor coaly debris.
16												
18		F										
18.50												Siltstone, grey; minor mudstone
19.50												
20												
22												

MULTIPURPOSE DRILL HOLE LOG

940115

113

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 64 A Sheet 2 of 3
 From 23.0 To 46.0 m
 Scale (s) 1: 100
 Logged by Th. Summons 14/7/1981

		1	2	3	4	5	6	7	8	9	10	11	12	Comments
24														
26	100													Lithic arenite, gray; minor sandy debris.
28			F											
29.50														
30						1	1/2							Mudstone, gray/brown, tuffaceous; orange zeolite in joints
30.50							1/2							Mudstone, carbonaceous; coal lenses
31.00														Mudstone, carbonaceous; calcite + orange zeolite
31.40														Mudstone, gray
32	100													(Coal, dull - dark) Mudstone, gray.
32.70														Siltstone, gray
33.10														Mudstone, gray Mudstone, carbonaceous
34			F											Mudstone/Siltstone, gray-cream.
34.50														
35.00														Mudstone, gray; finely laminated
35.50														
36														(? Acid tuft - white + gray banded, siltstone?) Mudstone, gray
36.60														Siltstone, gray; carbonaceous laminae
37.20														Mudstone, gray, laminated.
38														
38.20														Shale, carbonaceous; coal lenses; orange zeolite
38.70	98							M						Coal, heavy dull - D; broken + flakey
40			F											
42														Siltstone, gray; banded with carbon. mudstone laminae.
42.50														
43.00	100													Mudstone, gray (Coal, dull - D; broken) Mudstone, gray.
44														Siltstone, gray, banded
45.50														Mudstone, gray, laminated
46														Siltstone, gray, banded.

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

114

940116

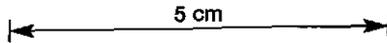
- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 6 Structure
- 8 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 64 A Sheet 3 of 3

From 46.00 To 52.50 m

Scale (s) 1 : 100

Logged by TG Summers 14/7/1981



		1	2	3	4	5	6	7	8	9	10	11	12	Comments
46.40														Siltstone, gray, banded
														Mudstone, gray, banded.
48														
49.70	100		F											
49.90														Carbonaceous banding
50														L.H.W. arenite, gray.
52														
52.50														EOH - 52.50m

W67

0-6.00 m	Precollar
6.00-12.67 m	Lithic arenite, grey, medium grained, minor coaly debris (Base of Oxidation - 6.6 m)
12.67-13.00 m	Coal, dull, heavy, 1 split
13.00-13.80 m	Lithic arenite, dark brown, fine grained with carbonaceous shale bands
13.80-23.57 m	Lithic arenite, grey, medium grained, coaly debris
23.57-23.93 m	Coal, dull (⁺ heavy) < 1% bright
23.93-26.40 m	Mudstone, brown
26.40-29.00 m	Mudstone/lithic arenite (fine grained), grey, interbedded
29.00-39.06 m	Lithic arenite, grey, medium grained
39.06-40.15 m	Coal, dull, ≈ 10% bright, 1 split at base
40.15-41.10 m	Mudstone, brown
41.10-53.10 m	Lithic arenite, grey/green, medium grained, minor clay pellet conglomerate (including deformed carbonaceous mudstone fragments with glauconite rims 52.78-52.90 m)
53.10-53.33 m	Siltstone, grey
53.33-53.80 m	Mudstone, grey
53.80-54.83 m	Coal, dull, ≈ 5% bright, 1 split (near top), calcite + red zeolite veins normal to bedding
54.83-54.95 m	Mudstone, carbonaceous
54.95-55.30 m	Mudstone + siltstone, grey
55.30-61.96 m	Lithic arenite, grey/green, medium grained
61.96-62.10 m	Tuff, ? acid
62.10-66.10 m	Lithic arenite, grey/green, medium grained
66.10-66.25 m	Tuff, ? acid/intermediate
66.25-66.65 m	Lithic arenite, green, medium grained
66.65-66.75 m	Tuff, ? acid/intermediate
66.75-73.55 m	Lithic arenite, grey, minor small (5 mm) clay pellets
73.55-73.99 m	Tuff, ? acid, rhyolite?
73.99-78.68 m	Mudstone/siltstone, cream/grey/green, including acid pyroclastic ? fragment 77.50-77.60 m
78.68-78.84 m	Tuff, ? intermediate
78.84-81.43 m	Siltstone / mudstone, cream/pale green
81.43-81.49 m	Tuff, ? welded, acid
81.49-82.40 m	Mudstone/siltstone, cream/pale green
82.40-82.45 m	Tuff, ? welded, acid, zeolitic
82.45-85.32 m	Siltstone/lithic arenite (fine grained), pale green/grey
85.32-85.50 m	? Tuff/rhyolite
85.50-88.50 m	Lithic arenite, pale grey/green, fine grained
	END OF HOLE 88.5 m

MULTIPURPOSE DRILL HOLE LOG

940118

116

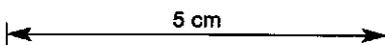
- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 67 Sheet 1 of 4

From 0 To 23.00m

Scale (s) 1: 100

Logged by TG Summers 24/6/1981



1	2	3	4	5	6	7	8	9	10	11	12	Comments
	PRE COLLAR											
6.6		hw										BASE OF OXIDATION
9.6		F										Lithic arenite, grey; minor coaly debris at base (→ 12.67m).
12.6		F										Coal, dark - 12.67m Coal, heavy dull - 5
13.80-14			|||||									Lithic arenite, dk. brown; carbonaceous shale bands
18.0		F										Lithic arenite, grey; minor coaly debris (Cross bedding 13.80-14.30m).

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940119

117

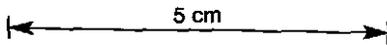
- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 67 Sheet 2 of 4

From 23.00 To 46.00 m

Scale (s) 1:100

Logged by TG Summers 24/6/1987



1	2	3	4	5	6	7	8	9	10	11	12	Comments
23.57												
24						M						Coal, heavy dull - 70; < 1% bright Mudstone, carbonaceous + grey
26												Mudstone, brown.
26.40		F										
28												Mudstone/lithic arenite, grey; interbedded.
29.00												
30												
32		F										
34												
36												
38												
39.05												
39.14		F										Coal, dull - 20; 9% bright.
40												Coal, dull - 26; 10% bright
42												Mudstone, brown.
44												
46												
												Lithic arenite, grey.

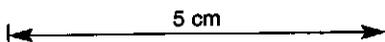
VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940120

118

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12

Hole No. W 67 Sheet 3 of 4
 From 46.00 To 69.00m
 Scale (s) 1:100
 Logged by T. C. Lumsden 24/6/1987



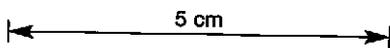
												Comments	
48													Lithic arenite, grey.
50		F											Mudstone, carbonaceous + glauconitic, 100% pyritic
52													Lithic arenite, grey.
52.78													[Clay pellet conglomerate - deformed carbonaceous mudstone clasts, set in glauconitic matrix; 10% pyrite]
53.25													Siltstone/lithic arenite, grey; laminated
53.80													Mudstone, grey.
54													Coal, heavy dull - D
54.47													Coal, dull - D
54.85		F											Coal, heavy dull - D; calcite + red zeolite veins.
55.30													Mudstone/Siltstone, grey; banded
56													Lithic arenite, grey/green.
62													? Acid tuff - cream to pale green, with orange bands
64													Lithic arenite, grey/green. (Calcite gash veins at 63.5m)
66		F											? Acid/intermediate tuff - orange, green + siliceous
66.45													Lithic arenite, green
66.60													? Acid tuff - similar to 66.40-66.45, ? flow banding?
69													Lithic arenite, grey; minor very small ($< 5\text{mm}$) pale clay pellets.

VICTOR EXPLORATION PTY. LTD.
MULTIPURPOSE DRILL HOLE LOG

940121

119

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 67 Sheet 4 of 4
 From 69.00 To 88.50 m
 Scale (s) 1:100
 Logged by TL Summers 24/6/1981

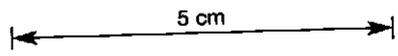
		1	2	3	4	5	6	7	8	9	10	11	12	Comments
70														
72														
73.55														
73.74														
74														
75.2														
76														
76.6														
77.6														
78														
78.69														
79.25														
80														
80.34														
80.77														
81.45														
82														
82.46														
84														
85.32														
85.50														
86														
88														
88.50														
0														

MULTIPURPOSE DRILL HOLE LOG

940122

120

- 1 Sample recovery
- 2 Rock type
- 3 Rock condition
- 4 Stratification
- 5 Structure
- 6 Mineralisation/Representative Fabric
- 7
- 8
- 9
- 10
- 11
- 12



Hole No. W 68 Sheet 1 of 1
 From 0 To 33.50 m
 Scale (s) 1:50
 Logged by TG Summers 7/7/1981

1	2	3	4	5	6	7	8	9	10	11	12	Comments
	Melanite											
	[Dotted pattern]			[Vertical dashes]								<p>Dolomite, oxidized and fresh, medium grain size; extremely broken as a result of the sub vertical jointing.</p>
												<p>EOH - 33.50 m</p>

EL 31/80

APPENDIX 2

S.G.S. ANALYTICAL LABORATORY

COAL



940124

00 122

U.M. A.O.	C.G.	E.C.	O.S.M.
and awered	- 1 SEP 1981		E & L
DEPT. OF MINES			
REF. No. 7531/81			

EL 31/80

MICROFILMED

APPENDIX 2

S.G.S. ANALYTICAL RESULTS AND COAL SEAM LOGS



122

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940125

VICTOR PETROLEUM AND RESOURCESWOODBURY COAL PROJECTBOREHOLE DDH W25COAL SEAM 19.00m - 19.30m

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	<u>(m)</u>		
19.00	- 19.20	0.20 <i>c3</i>	Coal, dull, shaly	1
19.20	- 19.30	0.10	Mudstone, grey pyritic, 45° slickensided fault near base.	2
		0.30	TOTAL	

.....*H. Read*.....
Harold Read
Manager - Coal Exploration
Services

5/8/81



123

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940126

VICTOR PETROLEUM AND RESOURCESWOODBURY COAL PROJECTBOREHOLE DDH W25COAL SEAM 21.38m - 21.71m

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
From (m)	To (m)	(m)		
21.38	- 21.43	0.05	<i>C2</i> Coal, dull, shaly, heat affected numerous slickensides.	1
21.43	- 21.51	0.08	Shale, coaly, intruded with clayey sill rock.	2
21.51	- 21.63	0.12	Shale, carbonaceous, heat affected.	3
21.63	- 21.66	0.03	Shale, coaly, slickensided, heat affected.	4
21.66	- 21.71	0.05	Coal, dull, shaly.	5
		<u>0.33</u>	TOTAL	

..... *H. Read*

Harold Read
Manager - Coal Exploration
Services

5/8/1981



VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W25

COAL SEAM 25.37m - 25.94m

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	(m)		
25.37	- 25.43	0.06	Coal, Shaly to Coaly shale.	1
25.43	- 25.59	0.16	Claystone, green/grey.	2
25.59	- 25.82	0.23	Coal, dull, shaly, heated-minor, Bright lense.	3
25.82	- 25.94	0.12	Coal, banded dull and bright, shaly, calcite mineralised fractures.	4
		<u>0.57</u>	TOTAL	

..... *H. Read*

Harold Read
 Manager - Coal Exploration
 Services



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940128

VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W25

COAL SEAM 27.68m - 28.19m.

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	<u>(m)</u>		
27.68	- 27.92	0.24	Coal, dull, shaly, Core grinding.	1
27.92	- 28.19	0.27	Coal, dull, shaly..	2
		<u>0.51</u>	TOTAL	

.....*H. Read*.....
Harold Read
Manager - Coal Exploration
Services



SGS Australia Pty. Ltd.

VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W25

COAL SEAM 59.37m - 60.40m.

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	(m)		
59.37	- 59.57	0.20	Coal, dull shaly, Coaly shale, Heat affected.	1
59.57	- 59.59	0.02	Clay, white and grey, pyritic- possibly weathered sill rock.	2
59.59	- 59.90	0.31	Coal, dull, cindered shaly.	3
59.90	- 60.40	0.50	Coal, dull with bright lenses, heat affected in parts.	4
		<u>1.03</u>	TOTAL	

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Harold Read
Manager - Coal Exploration
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5/8/81



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940130

VICTOR PETROLEUM AND RESOURCESWOODBURY COAL PROJECTBOREHOLE DDH W25COAL SEAM 63.90m - 64.21m.

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	<u>(m)</u>		
63.90	- 63.94	0.04	Coaly shale with bright lenses.	1
63.94	- 63.97	0.03	Carb. Shale.	2
63.97	- 64.07	0.10	Coaly Shale, slickensided.	3
64.07	- 64.08	0.01	M/S, Grey.	4
64.08	- 64.13	0.05	Coaly Shale.	5
64.13	- 64.21	0.08	Coal, banded bright and dull shale	6
		0.31	TOTAL	

H. Read

Harold Read
 Manager - Coal Exploration
 Services

5/8/81



Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1048

DATE IN: 8/7/81

DATE OUT: 7/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
 Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
 Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
 DDH W25 (19.00m 19.32m)

Mr J. Smith, PO Box 29,
 Campbelltown, Tasmania

ANALYSIS	1	2					
Total Moisture %							
Moisture %	1.9	2.7					
Ash %	43.2	86.7					
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.68	2.37					

DETERMINED IN ACCORDANCE WITH: AS1038
 BASIS RESULTS REPORTED ON Air Dried

..... *H. Read*

Harold Read
 Manager - Coal Exploration
 Services



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SGS Australia Pty. Ltd.

940133

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1048

DATE IN: 8/7/81

DATE OUT: 7/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1-Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W 25 (25.37m - 25.94m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2	3	4			
Total Moisture %							
Moisture %	3.8	3.6	5.7	4.1			
Ash %	33.4	78.1	38.2	46.3			
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.48	2.12	1.60	1.68			
	.06	.16	.23	.12			
			1.71				

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read
Harold Read
Manager - Coal Exploration
Services



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00 131

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940134

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1048

DATE IN: 8/7/81

DATE OUT: 7/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W 25 (27.68m - 28.19m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2					
Total Moisture %							
Moisture %	3.6	5.1					
Ash %	21.7	34.1					
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.47	1.55					
	4	7					
	1.51						

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read
Harold Read
Manager - Coal Exploration
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940135

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1048

DATE IN: 8/7/81

DATE OUT: 7/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W 25 (59.37m- 60.40m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2	3	4			
Total Moisture %							
Moisture %	1.8	3.2	3.3	2.9			
Ash %	42.0	25.2	34.3	25.0			
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.67	1.52	1.57	1.41			

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read
.....
Harold Read
Manager - Coal Exploration
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940136

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1048

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project
DDH W25 (63.90m-64.21m)

Mr J. Smith , PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2	3	4	5 @ 6?		
Total Moisture %							
Moisture %	3.6	2.3	3.3	7.3	2.4		
Ash %	46.7	24.6	42.4	84.8	34.6		
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.65	1.46	1.66	2.48	1.58		

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

A. Read

Harold Read
Manager - Coal Exploration
Services



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940137

VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDHW30

COAL SEAM 10.55m - 10.90m

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	(m)		
10.55	10.90	0.35	Coal, dull, shaly, weathered.	1

H. Read
.....
Harold Read
Manager - Coal Exploration
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SL1049 82185

940138

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1049

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W30 (10.55m-10.90m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1						
Total Moisture %							
Moisture %	2.0						
Ash %	50.4						
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.84						

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read

Harold Read
Manager - Coal Exploration
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940139

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0937

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W30 (20.20m-21.10m)

ANALYSIS	20.20- 20.50m	20.50- 20.60m	20.60- 20.80m	20.80- 21.00m	21.00- 21.10m	20.20- 21.00m
Total Moisture %						
Moisture %	4.0	3.1	4.2	3.5	3.8	3.9
Ash %	45.9	25.9	32.9	25.5	81.1	36.4
Volatile Matter %						11.3
Fixed Carbon %						48.4
Crucible Swelling No.						
Specific Energy MJ/kg						19.22
" " "d.o.f. Calc.						32.20
Total Sulphur %						0.22
Carbon %						
Hydrogen %						
Nitrogen %						
Oxygen %						
Carbon Dioxide %						
Relative Density	1.72	1.48	1.57	1.49	2.22	
Chlorine %						0.05

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis

H. Read
Harold Read
Manager - Coal Exploration
Services



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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W30

COAL SEAM 20.20m - 21.10

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No</u>
<u>From (m)</u>	<u>To (m)</u>			
20.20	- 20.50	0.30	Carbonaceous shale, weathered, clayey.	1
20.50	- 20.60	0.10	Coal, dull, shaly, weathered.	2
20.60	- 20.80	0.20	Coal, dull shaly with minor bright lenses, weathered brown mudstone band from 20.70-20.72m.	3
20.80	- 21.00	0.20	Coal, dull, shaly, heat affected (?)	4
21.00	- 21.10	0.10	Mudstone, light brown, carbonaceous at top, very weathered.	5
		<u>0.90</u>	TOTAL.	

.....*H. Read*.....

Harold Read
Manager - Coal Exploration
Services

26/6/81



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940141

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0937

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,

DDH W30 (34.88m-36.10m)

ANALYSIS							
Total Moisture %							
Moisture %		3.2					
Ash %		31.6					
Volatile Matter %		8.8					
Fixed Carbon %		56.4					
Crucible Swelling No.							
Specific Energy MJ/kg		22.80					
" " "	Calc daf	34.96					
Total Sulphur %		0.36					
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density		1.54					
Chlorine %		0.04					

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis

H. Read
 Harold Read
 Manager - Coal Exploration
 Services



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940142

VICTOR PETROLEUM AND RESOURCES LTD

WOODBURY COAL PROJECT

BOREHOLE DDH W 30

COAL SEAM 34.88m -36.10m

<u>Depth From (m)</u>	<u>To (m)</u>	<u>Interval (m)</u>	<u>Description</u>	<u>Sample No.</u>
34.88	- 35.00	0.12	Coal, dull, shaly	1
35.00	- 35.10	0.10	Shale, carbonaceous.	
35.10	- 36.10	1.00	Coal, dull, shaly, minor thin bright coal lenses.	
		<u>1.22</u>	TOTAL	

NOTE: recovery approximately 0.90m.

H. Read
.....
Harold Read
Manager - Coal Exploration
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26/6/81



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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W31A

COAL SEAM 19.50m - 19.70m

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	(m)		
19.50	19.70	0.20	Carbonaceous Shale	1

H. Read

.....
Harold Read
Manager - Coal Exploration
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SGS Australia Pty. Ltd.

SL1050 \$2185

940144

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1050

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project, 14.70
DDH W31 A (19.50m-19.90m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1						
Total Moisture %							
Moisture %	0.5						
Ash %	58.4						
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.78						

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read

Harold Read
Manager - Coal Exploration
Services



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SGS Australia Pty. Ltd.

VICTOR PETROLEUM AND RESOURCESWOODBURY COAL PROJECTBOREHOLE DDH W 32COAL SEAM 16.65m - 17.62m

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>			
16.65	- 16.78	0.13	Coal, mainly dull	1
16.78	- 16.98	<i>incl</i> 0.20	Shale, light grey, clayey, soft carbonaceous over lower half.	2
16.98	- 17.36	0.38	Coal, mainly dull, shaly over top half.	3
17.36	- 17.41	0.05	Shale, grey, carbonaceous and sideritic over top half.	4
17.41	- 17.62	0.21	Coal, banded dull and bright, thin mudstone lens near base.	5
		<u>0.97</u>	TOTAL	

H. Read.

Harold Read
Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W32

COAL SEAM 18.80m - 20.00m

C3

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>			
18.80	- 18.84	0.04	Coal, dull, shaly	} 1
18.84	- 19.00	0.16	Mudstone, carbonaceous, with thin coal lenses.	
19.00	- 19.28	0.28 ✓	Siltstone, grey, fossiliferous. ←	2
19.28	- 19.38	0.10	Coal, dull, shaly. Mudstone lens at base.	} 3
19.38	- 19.55	0.17	Coal, dull, with bright lenses.	
19.55	- 19.65	0.10	Coal, dull, shaly, pyritic.	
19.65	- 19.72	0.07	Coal, banded dull and bright.	
19.72	- 19.76	0.04	Shale, coaly.	
19.76	- 19.79	0.03	Coal, banded dull and bright.	
19.79	- 19.88	0.09	Mudstone, dark grey, carbonaceous at top.	4
19.88	- 20.00	0.12	Shale, carbonaceous.	5
		1.20	TOTAL	

H. Read

 Harold Read
 Manager - Coal Exploration /
 Services

VICTOR PETROLEUM AND RESOURCESWOODBURY COAL PROJECTBOREHOLE DDH W32COAL SEAM 48.85m - 49.85m

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>			
48.85	- 49.35	0.50	Coal, mainly dull, shaly, with 0.10m band of coaly shale near top. (Broken core, recovery 0.38m)	1
49.35	- 49.62	0.27	Coal, banded dull and bright, shaly and sideritic in parts.	2
49.62	- 49.85	0.23	Coal, dull with minor bright lenses, shaly and sideritic in parts, grades and carbonaceous shale over lower 0.01m.	
		<u>1.00</u>	TOTAL	

H. Read

Harold Read
Manager - Coal Exploration
Services



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SL 1003 7533 60

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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1003

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W32 (16.65m-17.62m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2	3	4	5	Composite 1-5incl.	Composite 1,3,5
Total Moisture %							
Moisture %	4.3	8.7	6.9	6.8	6.1	4.3	6.1
Ash %	40.0	80.4	27.8	76.7	25.3	46.7	29.1
Volatile Matter %						15.4	18.9
Fixed Carbon %						33.6	45.9
Crucible Swelling No.							
Specific Energy Mj/kg						15.32	21.52
" " d.a.f						31.26	33.20
Total Sulphur %						0.32	0.43
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.66	2.15	1.54	2.16	1.48		
Chlorine %						0.01	<0.01

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON

Air Dried

0.97

H. Read

Harold Read
Manager - Coal Exploration
Services



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1003

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W32 (18.80m-20.00m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2	3	4	5	Composite 1-5 incl.
Total Moisture %						
Moisture %	5.5	8.2	5.8	5.5	4.6	6.4
Ash %	61.1	85.4	31.5	83.2	68.9	61.0
Volatile Matter %			16.6			10.5
Fixed Carbon %			46.1			22.1
Crucible Swelling No.						
Specific Energy Mj/kg			21.10			9.00
" " d.a.f			33.92			27.60
Total Sulphur %			0.47			0.29
Carbon %						
Hydrogen %						
Nitrogen %						
Oxygen %						
Carbon Dioxide %						
Relative Density	1.93	2.36	1.58	2.30	2.05	
Chlorine %			0.01			<0.01

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

.....*H. Read*.....

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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1003

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania
Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W32 (48.85m49.85m)

ANALYSIS	1	2	Composite 1+2				
Total Moisture %							
Moisture %	4.2	3.6	3.8				
Ash %	42.2	23.4	33.7				
Volatile Matter %			13.1				
Fixed Carbon %			49.4				
Crucible Swelling No.							
Specific Energy Mj/kg			21.06				
" " d.a.f.			33.70				
Total Sulphur %			0.36				
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.72	1.54					
Chlorine %			<0.01				

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

.....*H. Read*.....

Harold Read
Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCESWOODBURY COAL PROJECTBOREHOLE DDH W36ACOAL SEAM 32.96m - 33.74m.

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	(m)		
32.96	33.68	0.72	Coal, dull, shaly, sideritic, minor thin bright lenses.	1
33.68	33.74	0.06	m/s, carbonaceous, slickensided	2
		0.78	TOTAL	

.....*H. Read*.....
Harold Read
Manager - Coal Exploration
Services

VICTOR PETROLEUM AND RESOURCESWOODBURY COAL PROJECTBOREHOLE DDH W36ACOAL SEAM 36.20m - 36.36m.

<u>Depth</u>	<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u> <u>To (m)</u>	<u>(m)</u>		
36.20 - 36.27	0.07	Coal, dull, shaly, broken core.	1
36.27 - 36.36	0.09	Coal, banded, shaly	2
	<u>0.16</u>	TOTAL	

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Laboratories Division

COAL ANALYSIS REPORT

SL1051 \$87.40

REPORT No.: SL1051

DATE IN: 8/7/81

DATE OUT: 7/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W 36A (32.96m - 33.74m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2					
Total Moisture %							
Moisture %	1.9	2.0					
Ash %	33.4	89.0					
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy MJ/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.49	2.48					

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read
Harold Read
Manager - Coal Exploration Services



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1051

DATE IN: 8/7/81

DATE OUT: 7/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
 Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
 Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
 DDH W 36A (36.20m - 36.36m) Mr J. Smith, PO Box 29,
 Campbelltown, Tasmania

ANALYSIS	1	2					
Total Moisture %							
Moisture %	3.5	2.3					
Ash %	57.8	29.1					
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.74	1.37					

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

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VICTOR PETROLEUM AND RESOURCESWOODBURY COAL PROJECTBOREHOLE DDH W37COAL SEAM 11.23m - 11.95m

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	(m)		
11.23	- 11.58	0.35	Coal, dull, shale, weathered.	1
11.58	- 11.62	0.04	Coal, banded bright and dull, shaly and sideritic, calcite lenses.	2
11.62	- 11.77	0.15	Coal, mainly dull, shaly, banded over top half.	3
11.77	- 11.95	0.18	Coal, dull and bright, possibly heated, broken core.	4
		<u>0.72</u>	TOTAL	

H. Read

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Manager - Coal Exploration
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5/8/81



VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W37

COAL SEAM 53.80m - 53.95m.

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	<u>(m)</u>		
53.80	0 53.95	0.15	Shale, carbonaceous.	1

H. Read

Harold Read
Manager - Coal Exploration
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5/8/81



Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1052

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W37 (53.80m-53.95m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1						
Total Moisture %							
Moisture %	3.3						
Ash %	91.1						
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy MJ/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	2.53						

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read

Harold Read
Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W 38

COAL SEAM 61.50m - 62.35m

0.85

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>			
61.35	- 61.42	0.07	Coal, banded dull and bright.	
61.42	- 61.62	0.20	Coal, dull, shaly, grades to coaly shale in parts.	1
61.62	- 61.70	0.08	Coal, mainly bright.	
61.70	- 62.04	0.34	Coal, mainly dull, shaly, with bright bands at 61.80m, 61.85m, 61.95m.	2
62.04	- 62.35	0.31	Coal, banded bright and dull, shaly in parts.	3
		1.00	TOTAL	

NOTE: Top of seam reported as 61.50m, but recovery of top interval was 0.35m instead of 0.20m as recorded.

H. Read
Harold Read
Manager - Coal Exploration Services



VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W 38

COAL SEAM 92.00m - 93.06m

<u>Depth</u>					
<u>From (m)</u>	<u>To (m)</u>	<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>	
92.00	- 92.09	0.09	Coal, dull, shaly, coaly shale in parts.	1	
92.09	- 92.45	0.36	Mudstone, carbonaceous.	2	
92.45	- 92.71	0.26	Coal, Mainly dull, shaly, with calcite in cleat, slickensides at base	3	
92.71	- 92.88	0.17	Shale, grey.	4	
92.88	- 93.00	0.12	Coal, dull, shaly.	5	
93.00	- 93.06	0.06	Shale, carbonaceous, with mudstone pellets to 0.05mm.	6	
		<hr/> 1.06	TOTAL		

H. Read
Harold Read
Manager - Coal Exploration
Services



VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W38

COAL SEAM 94.00m - 95.10m

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>			
94.00	- 94.03	0.03	Shale, carbonaceous, with coaly lenses.	1
94.03	- 94.12	0.09	Coal, mainly dull.	
94.12	- 94.30	0.18	Shale, light grey	2
94.30	- 94.83	0.53	Coal, mainly dull, shaly, 0.06m bright band in middle. (Recovery 0.43m)	3
94.83	- 94.87	0.04	Shale, carbonaceous.	4
94.87	- 95.10	0.23	Coal, banded bright and dull.	5
		<hr/> 1.10	TOTAL	

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.....
Harold Read
Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W38

COAL SEAM 99.15m - 99.82m

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	(m)		
99.15	99.27	0.12 80	Shale, carbonaceous	1
99.27	99.45	0.18 91	m/s, light grey, fossiliferous	2
99.45	99.63	0.18 46	Coal dull, shaly, to coaly shale	3
99.63	99.78	0.15 89	m/s, light grey	4
99.78	99.82	0.04 77	coaly shale.	5
		<u>0.67</u>	TOTAL	

H. Read

.....
Harold Read
Manager - Coal Exploration
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SL 1004 \$563 65

940163

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1004

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
 Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
 Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
 DDH W38 (61.50m-62.35m)

Mr J. Smith, PO Box 29,
 Campbelltown, Tasmania

61.35

ANALYSIS	1	2	3	Composite 1,2,3			
Total Moisture %							
Moisture %	7.5	5.9	3.9	5.6			
Ash %	31.3	23.2	22.5	26.0			
Volatile Matter %				20.0			
Fixed Carbon %				48.3			
Crucible Swelling No.							
Specific Energy Mj/kg				22.78			
" " d.a.f.				33.30			
Total Sulphur %				0.45			
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.55	1.50	1.44				
Chlorine %				0.01			

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

.....H. Read.....

Harold Read
 Manager - Coal Exploration
 Services



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1004

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania
Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W38 (92.00m-93.06m)

ANALYSIS	1	2	3	4	5	6	Composite 1-6incl
Total Moisture %							
Moisture %	1.9	4.8	5.0	12.1	4.9	2.6	5.4
Ash %	34.7	87.1	24.4	80.3	36.4	67.4	64.9
Volatile Matter %							8.4
Fixed Carbon %							21.3
Crucible Swelling No.							
Specific Energy MJ/kg							7.78
" " d.a.f.							26.20
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.67	2.38	1.49	2.30	1.58	2.02	
Chlorine %							0.17

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read

Harold Read
Manager - Coal Exploration
Services



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1004

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W38 (92.00m-93.06m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	Composite 1+3+5						
Total Moisture %							
Moisture %	3.7						
Ash %	29.7						
Volatile Matter %	16.1						
Fixed Carbon %	50.5						
Crucible Swelling No.							
Specific Energy Mj/kg	22.10						
" " d.a.f.	33.18						
Total Sulphur %	0.37						
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Chlorine %	0.02						

DETERMINED IN ACCORDANCE WITH: AS1038
BASIS RESULTS REPORTED ON Air Dried

.....*H. Read*.....
Harold Read
Manager - Coal Exploration
Services



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1004

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W38 (94.00m-95.10m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2	3	4	5	Composite 1-5 incl.	Composite 1+3+5
Total Moisture %							
Moisture %	4.0	14.3	5.0	11.2	5.0	6.5	4.5
Ash %	39.7	78.4	24.5	74.3	30.2	42.6	28.4
Volatle Matter %						14.0	16.7
Fixed Carbon %						36.9	50.4
Crucible Swelling No.							
Specific Energy Mj/kg						16.64	22.52
" " d.a.f.						32.70	33.56
Total Sulphur %						0.32	0.43
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.71	2.21	1.50	2.25	1.49		
Chlorine %						0.01	0.01

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read

Harold Read
Manager - Coal Exploration
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SL1053 \$10925

Laboratories Division

940167

COAL ANALYSIS REPORT

REPORT No.: SL1053

DATE IN: 8/7/81

DATE OUT: 7/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
 Victoria 3102

RESULTS TO: Mr E. Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
 Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
 DDH W 38 (99.15m - 99.82m)

Mr J. Smith, PO Box 29,
 Campbelltown, Tasmania

ANALYSIS	1	2	3	4	5		
Total Moisture %							
Moisture %	3.0	3.2	2.8	2.9	2.2		
Ash %	80.2	91.3	46.0	89.3	77.3		
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy MJ/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	2.12	2.47	1.65	2.38	2.05		

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read
 Harold Read
 Manager - Coal Exploration
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940168

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0937

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,

DDH W39 (22.54m-25.47m)

2.93

ANALYSIS		23.67- 23.71m	23.71- 23.95m	23.95- 24.04m	24.04- 24.33m	24.33- 24.54m	24.54- 24.64m.
Total Moisture %							
Moisture %		7.8	3.1	6.5	7.1	3.5	7.2
Ash %		75.8	14.2	79.6	69.8	21.8	64.8
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy MJ/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density		2.14	1.36	1.99	2.05	1.42	1.91

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis

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Manager - Coal Exploration
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940169

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SLO 937

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, TasmaniaSAMPLE REFERENCE: Woodbury Coal Project,
DDH W39 (22.54-25.47m)

ANALYSIS	22.54- 22.66m	22.66- 22.98m	22.98- 23.03m	23.03- 23.18m	23.18- 23.42m	23.42- 23.67m	
Total Moisture %							
Moisture %	3.1	5.3	7.6	4.4	7.4	4.3	
Ash %	48.0	37.0	74.5	28.8	58.6	27.2	
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy MJ/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.74	1.60	2.12	1.50	1.83	1.46	

DETERMINED IN ACCORDANCE WITH: AS 1038

BASIS RESULTS REPORTED ON Air Dried Basis

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Manager - Coal Exploration
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940170

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0937

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, TasmaniaSAMPLE REFERENCE: Woodbury Coal Project,
DDH W39 (22.54m-25.47m)

25.47
24.64
0.83

ANALYSIS	24.64- 24.94m	24.94- 25.05m	25.05- 25.40m	25.40- 25.47m	Composite 22.54- 25.47	Comp. excl. bands with Ash >50%
Total Moisture %						
Moisture %	5.0	6.6	2.4	2.0	4.4	4.1
Ash %	27.0	56.6	28.3	71.7	42.1	27.8
Volatile Matter %					18.7	19.8
Fixed Carbon %					34.8	48.3
Crucible Swelling No.						
Specific Energy Mj/kg					16.08	22.10
" " "	Calc.daf				30.06	32.44
Total Sulphur %					0.37	0.46
Carbon %						
Hydrogen %						
Nitrogen %						
Oxygen %						
Carbon Dioxide %						
Relative Density	1.50	1.77	1.47	2.02		
Chlorine %					0.03	0.04

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis

...H. Read.....
Harold Read
Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCES,

WOODBURY COAL PROJECT

BOREHOLE DDH W39

COAL SEAM (22.54m -25.47m)

Depth		Interval (m)	Description	Sample No.
From (m)	To (m)			
22.54	- 22.66	0.12	Shale, carbonaceous, with coal lenses; brecciated and recemented with calcite (FAULT?)	1
22.66	- 22.98	0.32	Shaly, coaly, weathered; vertical calcite filled fractures.	2
22.98	- 23.03	0.05	Mudstone, brown, sideritic, weathered.	3
23.03	- 23.18	0.15	Coal, mainly bright, weathered, mineralised and clayey cleats.	4
23.18	- 23.42	0.24	Shale, carbonaceous, with coaly bands.	5
23.42	- 23.44	0.02	Coal, banded.	6
23.44	- 23.46	0.02		
23.46	- 23.67	0.21		
23.67	- 23.71	0.04	Mudstone, dark grey, carbonaceous.	7
23.71	- 23.95	0.24	Coal, mainly dull, shaly, banded over lower 0.08m.	8
23.95	- 24.04	0.09	Mudstone, grey/brown, carbonaceous over top half, sideritic.	9
24.04	- 24.33	0.29	Mudstone, carbonaceous	10
24.33	- 24.54	0.21	Coal, mainly dull, shaly, banded bright coal over top 0.06m and bottom 0.03m	11
24.54	- 24.64	0.10	Mudstone, dark grey carbonaceous, clayey, coaly bands over lower 0.05m	12
24.64	- 24.78	0.14	Coal, banded bright and dull	13
24.78	- 24.94	0.16	Coal, dull, shaly.	
24.94	- 25.05	0.11	Shale, carbonaceous, with coaly lenses	14

.....
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 Manager - Coal Exploration
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³⁹
DDH W 30 Cont.

25.05 - 25.40	0.35	25	Coal, mainly bright	15
25.40 - 25.47	0.07	20	Mudstone, carbonaceous, with minor coaly lenses.	16
	<hr/>			
	2.93		TOTAL	

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26/6/81



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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W 39

COAL SEAM 41.50m - 41.90m

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>			
41.50	41.90	0.40	Shale, coaly, grades to shaly coal over lower half.	1

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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W 39

COAL SEAM 58.02m- 58.55m

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>			
58.02	- 58.06	0.04	Mudstone, carbonaceous, heat affected.	1
58.06	- 58.13	0.07	Coal dull, shaly.	2
58.13	- 58.33	0.20 <i>net</i>	Shale, light grey, soft, clayey.	3
58.33	- 58.55	0.22	Coal, dull, shaly, bright lenses at base.	4
		0.53	TOTAL	

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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W 39

COAL SEAM 59.14m- 60.05m

C2

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>			
59.14	- 59.23	0.09	Coal, dull, shaly, mudstone lens near top.	1
59.23	- 59.32	0.09 <i>incl</i>	Shale, light grey.	2
59.32	- 59.42	0.10	Coal, dull, shaly	3
59.42	- 59.47	0.05 <i>incl</i>	Mudstone, grey.	4
59.47	- 60.05	0.58	Coal, mainly dull, with bright bands to 0.01m, particularly towards base.	5
		0.91	TOTAL	

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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W 39

COAL SEAM 61.60m 62.27m

C1

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>			
61.60	- 62.27	0.67	Coal, mainly dull, shaly, with numerous bright bands.	1

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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W 39

COAL SEAM 91.22 - 91.85m

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>			
91.22	- 91.73	0.51	Coal, mainly dull, shaly, with bright lenses, heat affected, calcite mineralisation in cleat.	1
91.73	- 91.85	0.12	Mudstone, carbonaceous.	2
		<u>0.63</u>	TOTAL	

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SL 1005 P654 45

940178

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1005

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
 Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
 Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
 DDH W39 (41.50m-41.90m)

Mr J. Smith, PO Box 29,
 Campbelltown, Tasmania

ANALYSIS	1						
Total Moisture %							
Moisture %	6.5						
Ash %	50.6						
Volatile Matter %	13.7						
Fixed Carbon %	29.2						
Crucible Swelling No.							
Specific Energy MJ/kg	13.56						
" " d.a.f.	31.60						
Total Sulphur %	0.30						
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.81						
Chlorine %	0.01						

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read

Harold Read
 Manager - Coal Exploration
 Services



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1005

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W39 (58.02m-58.55m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2 0.07	3 0.2	4 0.22	Composite	
					1-4	2+4
Total Moisture %						
Moisture %	3.2	4.7	4.1	5.0	4.2	4.3
Ash %	73.9	34.9	82.0	36.0	55.6	36.0
Volatile Matter %					10.3	15.2
Fixed Carbon %					29.9	44.5
Crucible Swelling No.						
Specific Energy Mj/kg					9.58	20.42
" " d.a.f.					27.22	34.20
Total Sulphur %					0.24	0.43
Carbon %						
Hydrogen %						
Nitrogen %						
Oxygen %						
Carbon Dioxide %						
Relative Density	2.60	1.60	2.31	1.59		
Chlorine %					0.02	<0.01

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

.....H. Read.....

Harold Read
Manager - Coal Exploration
Services



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1005

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania
Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W39 (59.14m-60.05m)

ANALYSIS	1	2	3	4	5	Composite 1-5	Composite 1,3,5
Total Moisture %							
Moisture %	6.3	5.7	7.3	4.4	4.4	6.8	5.4
Ash %	48.0	84.6	35.6	85.1	24.1	39.2	29.3
Volatile Matter %						13.7	16.5
Fixed Carbon %						40.3	48.8
Crucible Swelling No.							
Specific Energy Mj/kg						17.90	22.10
" " d.a.f.						33.14	33.84
Total Sulphur %						0.37	0.45
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.78	2.32	1.60	2.43	1.45		
Chlorine %						0.01	0.01

DETERMINED IN ACCORDANCE WITH: AS1038
BASIS RESULTS REPORTED ON Air Dried

.....*H. Read*.....

Harold Read
Manager - Coal Exploration
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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1005

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
 Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
 Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
 DDH W 39 (61.60m-62.27m)

Mr J. Smith, PO Box 29,
 Campbelltown, Tasmania

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ANALYSIS	1						
Total Moisture %							
Moisture %	4.3						
Ash %	28.6						
Volatile Matter %	15.3						
Fixed Carbon %	51.8						
Crucible Swelling No.							
Specific Energy Mj/kg	22.70						
" " d.a.f.	33.83						
Total Sulphur %	0.47						
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.48						
Chlorine %	0.02						

DETERMINED IN ACCORDANCE WITH: AS1038
 BASIS RESULTS REPORTED ON Air Dried

.....*H. Read*.....
 Harold Read
 Manager - Coal Exploration
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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1005

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W39 (91.22m-91.85m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

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ANALYSIS	1	2	Composite 1+2				
Total Moisture %							
Moisture %	4.2	3.7	4.1				
Ash %	45.9	86.1	55.6				
Volatile Matter %	4.8		4.8				
Fixed Carbon %	45.1		35.5				
Crucible Swelling No.							
Specific Energy MJ/kg	16.62		13.32				
" " d.a.f.	33.30		33.06				
Total Sulphur %	0.49		0.39				
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.78	2.34					
Chlorine %	0.03		0.04				

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

.....*H. Read*.....

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Manager - Coal Exploration
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940183

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0938

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W40 (28.32m-29.03m)

ANALYSIS	28.32- 28.66m	28.66- 28.69m	28.69- 28.97m	28.97- 29.03m	Composite 28.32- 28.97m.	Composite excluding bands	
Total Moisture %							
Moisture %	1.6	10.5	3.3	2.4	3.1	2.6	
Ash %	28.4	79.0	30.4	79.3	33.3	29.9	
Volatile Matter %					15.3	15.6	
Fixed Carbon %					48.3	51.9	
Crucible Swelling No.							
Specific Energy MJ/kg					21.50	23.00	
" " "	Calc.daf				33.80	34.08	
Total Sulphur %					0.41	0.44	
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.56	2.25	1.60	2.16			
Chlorine %					0.03	0.04	

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis

.....H. Read.....

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Manager - Coal Exploration
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940184

VICTOR PETROLEUM AND RESOURCES LTDWOODBURY COAL PROJECTBOREHOLE DDH W 40COAL SEAM 28.32m - 29.03m

<u>Depth From (M)</u>	<u>To (m)</u>	<u>Interval (m)</u>	<u>Description</u>	<u>Sample No.</u>	
28.32	-	28.37	0.05	Coal, mainly dull.	1
28.37	-	28.52	0.15	Coal, dull, shaly.	
28.52	-	28.66	0.14	Coal, mainly bright	
28.66	-	28.69	0.03	Claystone, light brown.	2
28.69	-	28.97	0.28	Coal, mainly bright, with shaly lenses, sideritic.	3
28.97	-	29.03	0.06	Mudstone, light grey, carbonaceous over top half.	4
		<u>0.71</u>	TOTAL		

.....*H. Read*.....
Harold Read
Manager - Coal Exploration
Services

26/6/81



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940185

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0938

DATE IN: 30.6.81

DATE OUT: 3.7.81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
 Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
 Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
 DDH W40 (86.00m-88.59m)

1.04 2.6 .3 .47 .09 .04 .28

ANALYSIS	86.00- 87.04m	87.04- 87.30m	87.30- 87.60m	87.60- 88.07m	88.07- 88.16m	88.16- 88.20m	88.20- 88.48m
Total Moisture %							
Moisture %	3.5	4.1	2.7	2.3	3.7	4.7	3.3
Ash %	85.7	32.7	89.5	87.8	50.9	62.4	40.0
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	2.30	1.53	2.43	2.41	1.80	1.90	1.76

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis.

H. Read
 Harold Read
 Manager - Coal Exploration
 Services



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183
SGS Australia Pty. Ltd.

940186

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0938

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, TasmaniaSAMPLE REFERENCE: Woodbury Coal Project,
DDH W40 (86.00m- 88.59m)

ANALYSIS	88.48- 88.59m	Composite of 87.04- and 88.20-88.48m.	87.30; 88.07-88.16	Composite 87.04- 88.48m.
Total Moisture %				
Moisture %	2.5	3.8		-
Ash %	92.8	39.2		71.0 calc.
Volatile Matter %		4.7		
Fixed Carbon %		52.3		
Crucible Swelling No.				
Specific Energy MJ/kg		16.96		
" " "	Calc daf	29.74		
Total Sulphur %		0.46		
Carbon %				
Hydrogen %				
Nitrogen %				
Oxygen %				
Carbon Dioxide %				
Relative Density	2.51			
Chlorine %		0.03		

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis

H. Read
.....
Harold Read
Manager - Coal Exploration
Services



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been performed in accordance with its terms of registration.

VICTOR PETROLEUM AND RESOURCES LTDWOODBURY COAL PROJECTBOREHOLE DDH W 40COAL SEAM (86.00m - 88.59m)

<u>Depth</u> <u>From (m)</u>	<u>To (m)</u>	<u>Interval</u> <u>(m)</u>	<u>Description</u>	<u>Sample No.</u>
86.00	- 87.04	1.04	Shale, carbonaceous, numerous high angle joints	1
87.04	- 87.30	0.26	Coal, banded dull and bright, shaly, cindered (?)	2
87.30	- 87.60	0.30	Shale, carbonaceous.	3
87.60	- 88.07	0.47	Shale, coaly to carbonaceous, with thin coal lenses over top half.	4
88.07	- 88.16	0.09	Coal, mainly dull, shaly, heat affected. (?)	5
88.16	- 88.20	0.04	Coal, dull, shaly (fusain lens).	6
88.20	- 88.48	0.28	Coal, dull, shaly, numerous high angle mineralised (calcite) fractures, possibly heat affected.	7
88.48	- 88.59	0.11	Shale, carbonaceous	8
		<u>2.59</u>	TOTAL	

..... *H. Read*

Harold Read
Manager - Coal Exploration
Services

26/6/81



185
SGS Australia Pty. Ltd.

940188

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0938

DATE IN: 30.6.81

DATE OUT: 3.7.81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
 Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
 Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,

DDH W40 (89.25m-89.71m) - 46

ANALYSIS	89.25- 89.60m	89.60- 89.71m				
Total Moisture %						
Moisture %	1.7	3.6				
Ash %	93.9	57.6				
Volatile Matter %	35 ^m	11				
Fixed Carbon %						
Crucible Swelling No.						
Specific Energy MJ/kg						
Total Sulphur %						
Carbon %						
Hydrogen %						
Nitrogen %						
Oxygen %						
Carbon Dioxide %						
Relative Density	2.40	1.97				

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis

H. Read
 Harold Read
 Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCES LTD

WOODBURY COAL PROJECT

BOREHOLE DDH W 40

COAL SEAM (89.25m - 89.51m) . 26

<u>Depth</u> <u>From (m)</u>	<u>To (m)</u>	<u>Interval</u> <u>(m)</u>	<u>Description</u>	<u>Sample No.</u>
89.25	- 89.60	0.35	Mudstone, carbonaceous.	1
89.60	- 89.61	0.01	Coal, dull, shaly, with calcite veins, possibly heat affected.	} 2
89.61	- 89.62	0.01	Shale, carbonaceous	
89.62	- 89.71	0.09	Coal, dull, shaly.	
		<u>0.46</u>	TOTAL	

..... *H. Read*

Harold Read
 Manager - Coal Exploration
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26/6/81



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0939

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
 Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
 Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
 DDH W41 (11.50m-12.50m)

ANALYSIS	11.50- 11.72m	11.72- 11.75m	11.75- 12.25m	12.25- 12.50m	Composite 11.50- 12.25m.		
Total Moisture %							
Moisture %	1.8	1.0	3.1	2.8	2.7		
Ash %	19.2	43.9	35.0	90.0	32.1	← 30.6	
Volatile Matter %					8.0		
Fixed Carbon %					57.2		
Crucible Swelling No.							
Specific Energy MJ/kg					21.60		
" " "	Calc daf				33.14		
Total Sulphur %					0.36		
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.45	1.96	1.55	2.49			
Chlorine %					0.03		

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis

H. Read

 Harold Read
 Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCES LTD

WOODBURY COAL PROJECT

BOREHOLE DDH W41

COAL SEAM 11.50m - 12.50m

<u>Depth</u> <u>From (m)</u>	<u>To (m)</u>	<u>Interval</u> <u>(m)</u>	<u>Description</u>	<u>Sample No.</u>
11.50	- 11.72	0.22	Coal, thinly banded dull and bright, shaly.	1
11.72	- 11.75	0.03	Coal, dull, shaly, with numerous calcite bands and lenses.	2
11.75	- 12.25	0.50	Coal, mainly dull, shaly, grading to carbonaceous shale in parts; bright coal bands over top 0.5m and middle 0.15m.	3
Floor:				
12.25	- 12.50	0.25	Mudstone, carbonaceous.	4
		<u>1.00</u>	TOTAL	

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 Harold Read
 Manager - Coal Exploration
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COAL ANALYSIS REPORT

REPORT No.: SL0939

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,

DDH W41 (16.55m - 19.40m)

160 69 05 54 89

ANALYSIS	16.55- 17.15m	17.15- 17.84m	17.84- 17.89m	17.89- 18.43m	18.43- 19.32m	19.32- 19.40m	Composite 16.55- 19.32m.
Total Moisture %							
Moisture %	1.7	2.2	1.9	2.5	2.2	2.4	2.4
Ash %	37.2	90.9	27.5	89.3	43.5	81.5	69.5
Volatile Matter %							5.3
Fixed Carbon %							22.8
Crucible Swelling No.							
Specific Energy Mj/kg							7.24
" " "	Calc daf						25.74
Total Sulphur %							0.14
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.55	2.53	1.36	2.46	1.69	2.15	
Chlorine %							0.03

DETERMINED IN ACCORDANCE WITH: AS1038
BASIS RESULTS REPORTED ON: Air Dried Basis

..... *H. Keat*
Harold Read
Manager - Coal Exploration
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940193



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New Sheet

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: 4939

DATE IN:

DATE OUT:

CLIENT:

CLIENT REFERENCE:

ADDRESS:

RESULTS TO:

COPY TO:

SAMPLE REFERENCE:

DDH W41 (16.55 m - 19.40 m)

ANALYSIS	Comp excluding bands						
Total Moisture %							
Moisture %	x 2.2						
Ash %	x 40.7						
Volatile Matter %	x 6.1						
Fixed Carbon %	x 51.0						
Crucible Swelling No.							
Specific Energy Mj/kg	x 18.18						
	x 31.84						
Total Sulphur %	x 0.25						
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Chlorine %	x 0.04						

DETERMINED IN ACCORDANCE WITH:

BASIS RESULTS REPORTED ON



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VICTOR PETROLEUM AND RESOURCES LTD

WOODBURY COAL PROJECT

BOREHOLE DDH W41

COAL SEAM 16.55m - 19.40m

<u>Depth</u>					
<u>From (m)</u>	<u>To (m)</u>	<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>	
		<u>(m)</u>			
16.55	- 17.15	0.60	Coal banded dull and bright, shaly, with mudstone lenses to 0.01m; white and red calcite filled high angle fractures; weathered.	1	
17.15	- 17.84	0.69	Mudstone, grey, fossiliferous, carbonaceous over lower 0.15m.	2	
17.84	- 17.89	0.05	Coal, banded dull and bright, shaly, with calcite filled high angle fractures	3	
17.89	- 18.43	0.54	Mudstone, grey, carbonaceous over top 0.15m and at base; 0.05m coal lens at 18.02m.	4	
18.43	- 18.90	0.47	Coal, dull, shaly.		
18.90	- 19.10	0.20	Coal, banded dull and bright, shaly.	5	
19.10	- 19.32	0.22	Shale, coaly, with coal bands.		
19.32	- 19.40	0.08	Shale, carbonaceous, with thin coal lenses.	6.	
		2.85	TOTAL		

.....*H. Read*.....

Harold Read
Manager - Coal Exploration
Services

26/6/81



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940195

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0939

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W41 (22.75m-23.45m)

ANALYSIS	22.75- 23.30m	23.30- 23.45m					
Total Moisture %	5.5	15					
Moisture %	2.2	3.8					
Ash %	34.5	87.1					
Volatile Matter %	8.3						
Fixed Carbon %	55.0						
Crucible Swelling No.							
Specific Energy MJ/kg	19.92						
" " Calc daf	31.46						
Total Sulphur %	0.66						
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.49	2.30					
Chlorine %	0.05						

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis

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.....
Harold Read
Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCES LTD

WOODBURY COAL PROJECT

BOREHOLE DDH W41

COAL SEAM 22.75m - 23.45m

<u>Depth</u> <u>From (m)</u>	<u>To (m)</u>	<u>Interval</u> <u>(m)</u>	<u>Description</u>	<u>Sample No.</u>
22.75	- 23.30	0.55	Coal dull, shaly, with minor bright coal lenses.	1
23.30	- 23.45	0.15	Shale, carbonaceous, with calcite veins and numerous slickensides; weathered.	2
		<u>0.70</u>	TOTAL	

H. Read

Harold Read.
Manager - Coal Exploration
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26/6/81



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0939

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W41 (49.40m-51.80m)

ANALYSIS	49.40- 49.85m	49.85- 50.00m	50.00- 50.30m	50.30- 50.70m	50.70- 51.70m	51.70- 51.80m	
Total Moisture %							
Moisture %	5.1	2.2	2.4	4.2	2.3	3.6	
Ash %	52.5	91.7	84.7	56.4	93.8	59.4	
Volatile Matter %	11.5	11.5	13.5	14	1	11	
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy MJ/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.92	2.46	2.39	2.15	2.63	2.05	

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis

..... *H. Read*

Harold Read
Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCES LIMITEDWOODBURY COAL PROJECTBOREHOLE DDH W41COAL SEAM 49.40m - 51.80m

<u>Depth</u> From (m) To (m)	<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
49.40 - 49.85	0.45	Shale, coaly, with thin bright lenses in parts.	1
49.85 - 50.00	0.15	Mudstone, carbonaceous.	2
50.00 - 50.30	0.30	Shale, carbonaceous, with minor coaly lenses, sideritic.	3
50.30 - 50.70	0.40	Coal, dull, shaly, sideritic, bright coal lenses over lower 0.06m. Heat affected.	4
50.70 - 51.70	1.00	Shale, grey, sandy, carbonaceous over top 0.40m and bottom 0.15m, high angle fractures in middle.	5
51.70 - 51.80	0.10	Coal, dull, shaly, sideritic, heat affected.	6
	<u>2.40</u>	TOTAL	

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.....
Harold Read
Manager - Coal Exploration
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26/6/81



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0939

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W41 (24.95m-25.43m)

ANALYSIS							
Total Moisture %							
Moisture %		2.1					
Ash %		90.2					
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density		2.44					

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis

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Harold Read
Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCES LIMITED

WOODBURY COAL PROJECT

BOREHOLE DDH W41

COAL SEAM (24.95m - 25.43m)

<u>Depth</u>	<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
From (m) To (m)	(m)		
24.95 - 25.43	0.48	Mudstone, grey, carbonaceous at top and base, with minor thin coal lenses.	1

H. Read
.....
Harold Read
Manager - Coal Exploration
Services

26/6/81



VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W41

COAL SEAM 35.83m - 36.15m.

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	(m)		
35.83	36.15	0.32	<i>— 2009.11.1</i> Weathered sill rock.	1

H. Read
.....
Harold Read
Manager - Coal Exploration
Services



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940203

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0939

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
 Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
 Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
 DDH W41 (73.00m-73.53m)

ANALYSIS							
Total Moisture %							
Moisture %		3.6					
Ash %		66.4					
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy MJ/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density		2.16					

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON: Air Dried Basis

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 Harold Read
 Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCES LIMITED.

WOODBURY COAL PROJECT

BOREHOLE DDH W41

COAL SEAM 73.00m - 73.53m

<u>Depth</u>	<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
From (m) To(m)	(m)		
73.00 - 73.53	0.53	Coal, dull, shaly, heat affected, thin lenses of weathered sill material (?) and slickensides at base.	1

.....*H. Read*.....
Harold Read
Manager-Coal Exploration
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26/6/81



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VICTOR PETROLEUM AND RESOURCESWOODBURY COAL PROJECTBOREHOLE DDH W43ACOAL SEAM 12.10m - 12.90m.

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	<u>(m)</u>		
12.10	- 12.30	0.20	Coaly Shale, broken core.	1
12.30	- 12.55	0.25	m/s, carbonaceous with coaly parts. high angle brecciated fault zone.	2
				2
12.55	- 12.82	0.27	Coal, dull, shaly, minor bright, broken core.	3
12.82	- 12.90	0.08	M/S, dark grey, carbonaceous.	4
		<u>0.80</u>	TOTAL	

0.52

..... *H. Read*Harold Read
Manager - Coal Exploration
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5/8/81



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1055

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr. T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH 43 A (12.10m-12.90m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2	3	4			
Total Moisture %							
Moisture %	2.8	1.7	3.3	3.3			
Ash %	86.2	44.5	51.8	87.0			
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	2.32	1.68	1.70	2.34			

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

A. Read

Harold Read
Manager - Coal Exploration
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INV NO 122737

SL0903

3752 20

204

940207



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Sydney

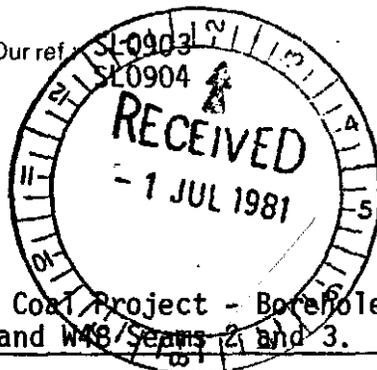
74 McEvoy Street,
Alexandria, N.S.W.,
P.O. Box 163, Redfern, 2016
Tel.: 699-7625
Telex: AA 22395
Cables: Supervise

Victor Petroleum and Resources
Limited,
Suite 3,
1373 Burke Road,
East Kew, Victoria,
3102

Attention: Mr. E. Eshuys

Your ref.:

Our ref. SL0903



24th June, 1981

Dear Sir,

Woodbury Coal Project - Boreholes W46 Seam 1 and 2
and W46 Seams 2 and 3.

Attached are seam descriptions and analytical results for the above boreholes, as requested.

If you have any queries or require assistance with interpretation or assessment of these results, I will be pleased to help.

A further four boxes of core have been received and work is in progress. However, it would be of great assistance to the laboratory if future boxes contain a brief note listing the contents, i.e. bore number, length and depth of top and bottom of each core tray run; core loss etc. Also it is preferable to wrap the core in corrugated cardboard with the corrugations on the outside, i. e. smooth side in contact with coal core.

Yours faithfully,

H. Read.

Harold Read
Manager-Coal Exploration Services

Copies to:

Mr. T. G. Summons - Victor Exploration Pty. Ltd.,
Mr. J. Smith - Campbelltown.



SGS Australia Pty. Ltd.

VICTOR EXPLORATION PTY. LTD.,

WOODBURY COAL PROJECT

BOREHOLE DDH W46 SEAM 1

Depth:		Interval: (m)	Description:	
From (m)	To (m)			
18.30	18.36	0.06	Caved material drilling mud and broken core.	
			SAMPLE 1.	
18.36	18.42	0.06	Coal, banded.	SAMPLE 2
18.42	18.44	0.02	Shale, carbonaceous, with mudstone lens in middle.	} SAMPLE 3.
18.44	18.45	0.01	Claystone, black, carbonaceous, soft.	
18.45	18.50	0.05	Claystone, brown, soft.	
18.46	18.51	0.01	Claystone, black, carbonaceous, soft.	
18.51	18.67	0.16	Shale, carbonaceous to coaly.	SAMPLE 4.
CORE LOSS ?				
18.67	19.10	0.43	Claystone, black, carbonaceous, broken core.	SAMPLE 5.
19.10	19.12	0.02	Shale, carbonaceous, coaly at top.	} SAMPLE 6.
19.12	19.13	0.01	Coal, banded.	
19.13	19.15	0.02	Coal, banded, with numerous slickensides. (POSSIBLE FAULT ZONE)	
19.15	19.32	0.17	Shale, carbonaceous.	
19.32	19.37	0.05	Shale, coaly.	
19.37	19.47	0.10	Coal, banded, shaly.	SAMPLE 7.
19.47	19.62	0.15	Claystone, light brown to grey, soft, 45° joint in middle.	SAMPLE 8.
19.62	19.71	0.09	Coal, banded.	SAMPLE 9.
19.71	19.76	0.05	Mudstone, brown, carbonaceous	} SAMPLE 10.
19.76	19.77	0.01	Shale, carbonaceous.	
19.77	19.79	0.02	Coal, dull, shaly.	
19.79	19.95	0.16	Coal mainly bright.		SAMPLE 11.
19.95	20.10	0.15	Shale, carbonaceous, coaly in parts.	SAMPLE 12.
20.10	20.20	0.10	Shale, carbonaceous, with coaly lenses.	} SAMPLE 13.
20.20	20.22	0.02	Mudstone, brown.	
20.22	20.28	0.06	Shale, carbonaceous.	} SAMPLE 14.
20.28	20.34	0.06	Coal, fragmented and recemented with calcite. (FAULT ZONE)	
20.34	20.38	0.04	Coal, banded.	} SAMPLE 15.
20.38	20.64	0.26	Coal, banded, with thin shaly lenses.	
20.64	20.65	0.01	Mudstone, brown, carbonaceous.	
20.65	20.73	0.08	Coal, banded with mudstone lens near base, much pyrite in cleat and as thin lenses.	
20.73	20.76	0.03	Mudstone, Coaly.	
		2.46	TOTAL	
		====		

H. Read

.....
Harold Read
 Manager - Coal Exploration Services.



Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0903

DATE IN: 16/6/81

DATE OUT: 24/6/81

CLIENT: Victor Exploration Pty Ltd

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Rd., East Kew
Victoria 3102

RESULTS TO: Mr E. Eshuys

COPY TO: Mr. T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania.

SAMPLE REFERENCE: Woodbury Coal Project; DDH W46 Seam 1 (18.30m - 20.76m)

ANALYSIS	1	2	3	4	5	6	7
Total Moisture %							
Moisture %	4.0	3.4	8.5	5.1	8.6	7.2	3.7
Ash %	76.5	29.7	64.7	38.1	68.0	54.3	21.5
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy MJ/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	2.10	1.49	1.96	1.62	2.00	1.81	1.42

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried.

.....
H. Read

Harold Read
Manager - Coal Exploration
Services



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SGS Australia Pty. Ltd.

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0903

DATE IN: 16/6/81

DATE OUT: 24/6/81

CLIENT: Victor Exploration Pty Ltd

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Rd., East Kew,
Victoria 3102

RESULTS TO: Mr E. Eshuys

COPY TO: Mr. T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania.

SAMPLE REFERENCE: Woodbury Coal Project; DDH W46
Seam 1 (18.30m - 20.76m)

ANALYSIS	8	9	10	11	12	13	14
Total Moisture %							
Moisture %	9.9	3.7	6.9	3.0	7.1	6.7	3.0
Ash %	80.9	19.9	53.3	23.7	57.0	51.6	34.6
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	2.20	1.41	1.76	1.48	1.82	1.78	1.64

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried.

.....*H. Read*.....
 Harold Read
 Manager - Coal Exploration
 Services



This Laboratory is registered by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed in accordance with its terms of registration.



940211

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0903

DATE IN: 16/6/81

DATE OUT: 24/6/81

CLIENT: Victor Exploration Pty Ltd

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Rd., East Kew
 Victoria 3102

RESULTS TO: Mr E. Eshuys

COPY TO: Mr.T.Summons, 1 Greenlands Ave.
 Sandy Bay, Tasmania.

SAMPLE REFERENCE: Woodbury Coal Project; DDH W46
 Seam 1 (18.30m - 20.76m)

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ANALYSIS	15		Composite 2-15 in.	Composite Ex.Stone Bands (2,4,7,9,10,11,13,14,15)			
Total Moisture %							
Moisture %	3.7		6.4	4.2			
Ash %	34.4		50.4	35.6			
Volatile Matter %			14.1	19.8			
Fixed Carbon %			29.1	40.4			
Crucible Swelling No.							
Specific Energy Mj/kg			12.12	18.92			
" " " **			28.06	31.42			
Total Sulphur %			0.48	0.47			
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.59						
Chlorine %			0.01	0.03			

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried.

** Calc. dry ash-free.

.....*H. Read*.....

Harold Read
 Manager - Coal Exploration
 Services



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VICTOR EXPLORATION PTY. LTD.,
WOODBURY COAL PROJECT
BOREHOLE DDH W46 SEAM 2

C 1,2

<u>Depth:</u>	<u>Interval</u>	<u>Description</u>	
From (m) To (m)	(m)		
59.90 - 60.01	0.11	Coal, mainly dull, shaly, sideritic.	} SAMPLE 1.
60.01 - 60.03	0.02	Shale, carbonaceous.	
60.03 - 60.31	0.28	Claystone, light greenish grey, fossiliferous. SAMPLE 2.	
60.31 - 60.47	0.16	Coal dull, shaly. SAMPLE 3.	
60.47 - 60.55	0.08	Coal, mainly bright, sideritic. SAMPLE 4.	
60.55 - 60.58	0.03	Shale, grey. SAMPLE 5	
60.58 - 60.65	0.07	Shale, carbonaceous, with coal lenses.	} SAMPLE 6.
60.65 - 60.68	0.03	Shale, carbonaceous.	
60.68 - 60.85	0.17	Shale, grey, fossiliferous. SAMPLE 7.	
60.85 - 61.48	0.63	Coal, banded, with thin shaly and mudstone lenses. SAMPLE 8.	
	<u>1.58</u>	<u>TOTAL</u>	

..... *H. Read*
 Harold Read
 Manager - Coal Exploration Services



Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0903

DATE IN: 16/6/81

DATE OUT: 24/6/81

CLIENT: Victor Exploration Pty Ltd

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Rd., East Kew
 Victoria 3102

RESULTS TO: Mr E. Eshuys

COPY TO: Mr. T. Summons, 1 Greenlands Ave.
 Sandy Bay, Tasmania.

SAMPLE REFERENCE: Woodbury Coal Project
 DDH W46 Seam 2 (59.90m - 61.48m)

ANALYSIS	1	2	3	4	5	6	7
Total Moisture %							
Moisture %	3.1	12.5	4.2	2.1	4.7	3.0	3.1
Ash %	36.8	80.6	42.4	22.5	90.0	66.0	88.5
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.62	2.24	1.68	1.42	2.48	1.95	2.41

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried.

H. Read

.....
 Harold Read
 Manager - Coal Exploration
 Services



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0903

DATE IN: 16/6/81

DATE OUT: 24/6/81

CLIENT: Victor Exploration Pty Ltd

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Rd., East Kew
Victoria 3102

RESULTS TO: Mr E. Eshuys

COPY TO: Mr. T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project
DDH W46 Seam 2 (59.90m - 61.48m)

ANALYSIS	8	Composite 1-8 incl.	Composite Ex Stone Bands(1,3,4,8)
Total Moisture %			
Moisture %	2.5	5.6	3.4
Ash %	28.7	54.5	32.0
Volatile Matter %		11.1	15.0
Fixed Carbon %		28.8	49.6
Crucible Swelling No.			
Specific Energy Mj/kg		11.68	21.82
" " " **		29.28	33.78
Total Sulphur %		0.27	0.47
Carbon %			
Hydrogen %			
Nitrogen %			
Oxygen %			
Carbon Dioxide %			
Relative Density	1.46		
Chlorine %		0.03	0.04

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried.

**Calc. Dry Ash-Free.

H. Read

Harold Read
Manager- Coal Exploration
Services



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0940

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,

DDH W46 (91.85m-92.45m)

ANALYSIS							
Total Moisture %							
Moisture %		1.8					
Ash %		46.0					
Volatile Matter %		7.6					
Fixed Carbon %		44.6					
Crucible Swelling No.							
Specific Energy MJ/kg		17.36					
" " "	Calc daf	33.28					
Total Sulphur %		0.24					
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density		1.72					
Chlorine %		0.04					

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON: Air Dried Basis

H. Read
.....
Harold Read
Manager - Coal Exploration
Services



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VICTOR PETROLEUM + RESOURCES LTD

WOODBURY COAL PROJECT

BOREHOLE DDH W46

COAL SEAM

Depth	Interval	Description	Sample
From (m) To (m)	(m)		N°
91.85 - 92.45	0.60	Coaly shale with several coal bands to 0.03m thick; sideritic.	1



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SGS Australia Pty. Ltd.

940217

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0941

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
 Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
 Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
 DDH W47 (43.62m-44.93m)

ANALYSIS	43.62- 43.75m	43.75- 43.92m	43.92- 44.05m	44.05- 44.08m	44.08- 44.17m	44.17- 44.19m	44.19- 44.57m
Total Moisture %							
Moisture %	1.9	8.8	3.3	7.9	3.4	4.2	1.8
Ash %	56.8	82.2	48.7	78.1	47.4	71.2	26.2
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.82	2.22	1.69	2.10	1.57	1.95	1.41

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON: Air Dried Basis

H. Read
 Harold Read
 Manager - Coal Exploration
 Services



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0941

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,

DDH W47 (43.62m-44.93m)

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ANALYSIS	44.51- 44.81m	44.81- 44.90m	44.90- 44.93m	Composite 43.92- 44.90m.	Composite excluding bands		
Total Moisture %							
Moisture %	2.0	2.4	2.2	2.3	2.3		
Ash %	27.8	49.1	87.4	37.6	34.6		
Volatile Matter %				9.0	7.9		
Fixed Carbon %				51.1	55.2		
Crucible Swelling No.							
Specific Energy MJ/kg				19.44	20.30		
" " "	Calc daf			32.34	32.18		
Total Sulphur %				0.39	0.38		
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.39	1.73	2.29				
Chlorine %				0.04	0.03		

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis

.....*H. Read*.....
 Harold Read
 Manager - Coal Exploration
 Services



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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W47

COAL SEAM 43.62m - 44.93m

<u>Depth</u> From(m) To(m)	<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
43.62-43.75	0.13	Shale, coaly, with thin bright coal lenses, heat affected (?)	1
43.75-43.92	0.17	Mudstone, clayey, carbonaceous at top.	2
43.92-44.05	0.13	Shale, carbonaceous to coaly, with thin bright coal lenses.	3
44.05-44.08	0.03	Mudstone, carbonaceous.	4
44.08-44.17	0.09	Coal, dull, shaly, appears weathered, possibly heat affected.	5
44.17-44.19	0.02	Mudstone, -carbonaceous.	6
44.19-44.51	0.32	Coal, dull shaly, with much calcite, appears weathered or heat affected.	7
44.51-44.59	0.08	Coal, mainly bright.	8
44.59-44.78	0.19	Coal, dull, shaly, with mudstone lens at top.	
44.78-44.81	0.03	Coal, mainly bright.	9
44.81-44.90	0.09	Coal, mainly dull, shaly, with bright coal bands over lower half, calcite mineralisation on cleats.	
44.90-44.93	0.03	Mudstone, carbonaceous.	10
	1.31	TOTAL	

H. Read

 Harold Read
 Manager - Coal Exploration
 Services.

26/6/81



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-940220

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0941

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,

DDH W47 (76.54m-77.16m)

ANALYSIS	76.54- 76.80m	76.80- 77.01m	77.01- 77.13m	77.13- 77.16m	Composite 76.54- 77.13m.		
Total Moisture %							
Moisture %	1.7	4.4	2.1	1.0	2.7		
Ash %	41.0	46.9	42.2	72.6	43.1		
Volatile Matter %					6.6		
Fixed Carbon %					47.6		
Crucible Swelling No.							
Specific Energy MJ/kg					16.22		
" " "	Calc daf				29.94		
Total Sulphur %					0.55		
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.53	1.66	1.59	2.19			
Chlorine %					0.03		

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis

H. Read
.....
Harold Read
Manager - Coal Exploration
Services



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SGS Australia Pty. Ltd.

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VICTOR PETROLEUM AND RESOURCES LIMITEDWOODBURY COAL PROJECTBOREHOLE DDH W47COAL SEAM (76.54 - 77.16m)

<u>Depth</u> From (m) To (m)	<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
76.54 - 76.80	0.26	Coal, dull, shaly, minor bright coal. lenses, calcite mineralised joints.	1
76.80 - 76.85	0.05	Coal, banded bright and dull.	}
76.85 - 77.01	0.16	Coal, dull, shaly, cindered (?)	
77.01 - 77.06	0.05	Coal, mainly dull.	
77.06 - 77.10	0.04	Coal, banded bright and dull.	
77.10 - 77.13	0.03	Shale, carbonaceous, with thin bright Coal lenses.	3
77.13-77.16	0.03	Mudstone, carbonaceous.	4
	<u>0.62</u>	TOTAL	

H. Read

 Harold Read
 Manager-Coal Exploration
 Services.

26/6/81



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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W48

COAL SEAM 36.00m - 36.33m

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	(m)		
36.00	36.03	0.03	m/s, brown, carbonaceous	1
36.03	36.18	0.15	Carbonaceous shale/coaly shale	2
36.18	36.25	0.07	laminite/shale/siltstone, light grey	3
36.25	36.33	0.08	Carbonaceous shale.	4
		<u>0.33</u>	TOTAL	

..... *H. Read*

Harold Read
Manager - Coal Exploration
Services

VICTOR PETROLEUM AND RESOURCESWOODBURY COAL PROJECTBOREHOLE DDH W48COAL SEAM 38.57m - 39.06m

<u>Depth</u> <u>from (m)</u> <u>To (m)</u>	<u>Interval</u> <u>(m)</u>	<u>Description</u>	<u>Sample No.</u>
38.57 - 38.68	0.11	Carbonaceous shale.	1
38.68 - 38.96	0.28	Shale, grey, fossiliferous	2
38.96 - 39.06	0.10	Coal, dull, with minor bright lenses over lower half.	3
	<u>0.49</u>	TOTAL	

.....*H. Read*.....
 Harold Read
 Manager - Coal Exploration
 Services

Laboratories Division
COAL ANALYSIS REPORT

REPORT No.: SL1056

DATE IN: 8/7/81

DATE OUT: 7/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
 Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, -1 Greenlands Ave.
 Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
 DDH W 48 (36.00m - 36.33m)

Mr J. Smith, PO Box 29,
 Campbelltown, Tasmania

ANALYSIS	1	2	3	4			
Total Moisture %							
Moisture %	11.2	3.9	2.5	2.2			
Ash %	78.7	58.2	88.0	73.2			
Volatile Matter %	.03	.15	.07	.08			
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	2.26	1.82	2.28	2.13			

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read
 Harold Read
 Manager - Coal Exploration
 Services



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SL1056 152 95

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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1056

DATE IN: 8/7/81

DATE OUT: 7/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, TasmaniaSAMPLE REFERENCE: Woodbury Coal Project,
DDH W 48 (38.57m - 39.06m) Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2	3				
Total Moisture %							
Moisture %	2.9	3.1	1.4				
Ash %	50.7	92.5	31.7				
Volatile Matter %	11	8	10				
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy MJ/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.69	2.67	1.58				

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

.....*H. Read*.....
 Harold Read
 Manager - Coal Exploration
 Services



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VICTOR EXPLORATION PTY. LTD.,
WOODBURY COAL PROJECT
BOREHOLE W48 SEAM 2

<u>Depth:</u>		<u>Interval:</u>	<u>Description:</u>	
From (m)	To (m)	(m)		
44.02	- 44.03	0.01	Shale, grey - not sampled	
44.03	- 44.05	0.02	Shale coaly.	} SAMPLE 1.
44.05	- 44.12	0.07	Coal, dull, with bright band in middle.	
44.12	- 44.29	0.17	Claystone, light grey, fossiliferous in parts. SAMPLE 2.	
44.29	- 44.44	0.15	Shale, coaly. SAMPLE 3.	} SAMPLE 4.
44.44	- 44.72	0.28	Coal, mainly dull.	
44.72	- 45.05	0.33	Coal, banded, thin mudstone lens near base; high angle mineralised (calcite) joint (FAULT?) at 45.00m.	
45.05	- 45.06	0.01	Mudstone, brown. - not sampled.	
		1.04	TOTAL	
		====		

H. Read
.....
Harold Read
Manager - Coal Exploration Services



Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0904

DATE IN: 16/6/81

DATE OUT: 24/6/81

CLIENT: Victor Exploration Pty Ltd

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Rd., East Kew
Victoria 3102

RESULTS TO: Mr E. Eshuys

COPY TO: Mr. T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania.

SAMPLE REFERENCE: Woodbury Coal Project; DDH W48 Seam 2 (44.03m - 45.05m)

ANALYSIS	1 2 3 4				Composite	Composite
	1	2	3	4	1-4 incl.	Ex. Bands 2 + (4) 3
Total Moisture %						
Moisture %	2.5	11.9	7.0	3.3	6.6	3.7
Ash %	24.7	80.9	68.6	29.2	47.0	28.4
Volatile Matter %					12.0	18.2
Fixed Carbon %					34.4	49.7
Crucible Swelling No.					-	-
Specific Energy MJ/kg					14.20	22.68
" " " **					30.60	33.40
Total Sulphur %					0.27	0.40
Carbon %						
Hydrogen %						
Nitrogen %						
Oxygen %						
Carbon Dioxide %						
Relative Density	1.51	2.24	2.00	1.52		
Chlorine %					0.01	0.01

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

** Calc. dry ash freed.

H. Read

Harold Read
Manager - Coal Exploration
Services



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SGS Australia Pty. Ltd.

VICTOR EXPLORATION PTY. LIMITED,
WOODBURY COAL PROJECT
BOREHOLE DDH W 48 SEAM 3

~~36.03 - 36.33 - 3.3~~

<u>Depth</u>	<u>Interval</u>	<u>Description</u>	
From (m) To (m)	(m)		
	0.23	Shale, coaly, sideritic.	} Sample 1.
	0.06	Coal, shaly, sideritic.	
	0.04	Mudstone, sideritic.	
	0.02	Shale, coaly.	} Sample 2.
	0.01	Coal, banded.	
	0.20	Cannel coal, shaly at top.	Sample 3.
	0.19	Coal, banded, sideritic.	Sample 4.
	0.03	Mudstone, dark brown, carbonaceous.	} Sample 5
	0.01	Coal, banded, sideritic.	
	0.06	Mudstone, as above.	
	0.85m	TOTAL.	

NOTE: Core box labelled 85.15m-86.40m i.e. 1.25m, however only 0.85m of core in box. No obvious core loss.

.....*H. Read*.....
 Harold Read
 Manager - Coal Exploration Services.



Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0904

DATE IN: 16/6/81

DATE OUT: 24/6/81

CLIENT: Victor Exploration Pty Ltd

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Rd., East Kew
Victoria 3102

RESULTS TO: Mr E. Eshuys

COPY TO: Mr. T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania.

SAMPLE REFERENCE: Woodbury Coal Project, DDH W48 Seam 3

ANALYSIS	1	2	3	4	5	Composite	Composite
						1-4 incl.	Ex. Bands 1,3,4
Total Moisture %							
Moisture %	0.8	1.5	2.3	2.7	1.6	1.8	1.9
Ash %	37.5	70.4	44.0	23.8	74.8	40.4	36.3
Volatile Matter %						9.2	10.1
Fixed Carbon %						48.6	51.7
Crucible Swelling No.						-	-
Specific Energy MJ/kg						18.86	20.42
" " " **						32.62	33.04
Total Sulphur %						0.18	0.20
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.59	1.97	1.60	1.42	2.11		
Chlorine %						0.01	0.01

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

** Calc. dry ash free.

H. Read

Harold Read
Manager - Coal Exploration
Services



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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W 49

COAL SEAM 29.05m- 33.25m

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>			
29.05	- 29.20	0.15	Coal, dull, shaly, heat affected	1
29.20	- 29.55	0.35	<i>and</i> Shale, light grey.	2
29.55	- 30.05	0.50	Coal, mainly bright, calcite mineralisation in cleat.	3
30.05	- 33.25	3.20	Coal, banded dull and bright, with mudstone - interval very broken, not possible to log accurately. See Note.	4
		4.20	TOTAL	

NOTE: Interval 30.05m - 33.25m was float/sink separated at RD 1.60.

Total mass received : 2.93kg.
Floats 1.60 30.1%, ash 12.7%.

H. Read
.....
Harold Read
Manager - Coal Exploration
Services



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SGS Australia Pty. Ltd.

SL1006 288 05

940231

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1006

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania
Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W49 (29.05m-33.25m)

ANALYSIS	1	2	3	4. Washed at 1.60			
				Sinks	Floats		
Total Moisture %	0.15	0.35	0.50	3.20			
Moisture %	7.6	7.0	5.0	5.6	4.2		
Ash %	42.6	87.2	27.6	65.5	12.7		
Volatile Matter %							
Fixed Carbon %				49.6			
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.70	2.36	1.48	>1.6	<1.6		
Yield				69.9	30.1		
			mass	2.93 x 60	2.93 x 30		
				2.05	.88		(total = 2.93)

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

.....H. Read.....

Harold Read
Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W 61

COAL SEAM 25.30m - 26.13m

<u>Depth</u>					
<u>From (m)</u>	<u>To (m)</u>	<u>Interval (m)</u>	<u>Description</u>	<u>Sample No.</u>	
25.30	- 26.13	0.83	Coal, mainly dull, shaly, with minor thin bright lenses, 0.07m coaly shale in middle.	1	

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Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W 61

COAL SEAM 29.65m - 31.85m

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>			
29.65	- 30.17	0.52	Coal, dull, shaly, with minor thin bright lenses, appears heat affected.	1
30.17	- 30.71	0.54 <i>red</i>	Shale, grey, fossiliferous, carbonaceous in parts.	2
30.71	- 30.80	0.09	Coal, dull, shaly, bright at top.	3
30.80	- 30.85	0.05 <i>red</i>	Shale, carbonaceous.	4
30.85	- 31.79	0.94	Coal, mainly dull, shaly, calcite mineralised joints and cleat, appears heat affected.	5
31.79	- 31.82	0.03 <i>red</i>	Mudstone, carbonaceous	6
31.82	- 31.85	0.03	Coal, banded dull and bright shaly, appears heat affected.	7.
		2.20	TOTAL	
		<i>1.74</i>		
		<i>0.83</i>		
		<i>2.57</i>		
			<i>4.85</i>	
			<i>2.57</i>	
			<i>29.28</i>	

H. Read
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Harold Read
Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W 61

COAL SEAM 69.88m-71.64 m

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>			
69.88	- 70.35	0.47	Shale, carbonaceous; calcite mineralisation.	1
70.35	- 70.80	0.45	Coal, dull and bright, heat affected, calcite mineralised cleat.	2
70.80	- 71.05	0.25	Mudstone, carbonaceous.	3
71.05	- 71.32	0.27	Shale, coaly, with bright coal lenses, heat affected, calcite mineralisation.	4
71.32	- 71.64	0.32	Coal, banded dull and bright, shaly with coaly shale lenses, heat affected calcite mineralised cleat.	5
		1.76	TOTAL	
		47		
		<u>129</u>		

.....*H. Read*.....
 Harold Read
 Manager - Coal Exploration
 Services



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1006

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, TasmaniaSAMPLE REFERENCE: Woodbury Coal Project,
DDH W61 (29.65m-31.85m)Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2	3	4	5	6	7
Total Moisture %							
Moisture %	3.5	6.0	4.1	6.1	4.7	5.0	2.6
Ash %	27.4	84.5	46.2	83.3	37.1	87.8	37.5
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy Mj/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.55	2.45	1.80	2.44	1.60	2.44	1.57

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

.....*H. Read*.....

Harold Read
Manager - Coal Exploration
Services



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1007

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W61 (29.65m-31.85m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	Composite 1-7 incl.	Composite 1,3,5,7					
Total Moisture %							
Moisture %	4.1	3.8					
Ash %	53.9	34.8					
Volatile Matter %	8.7	10.8					
Fixed Carbon %	33.3	50.6					
Crucible Swelling No.							
Specific Energy Mj/kg	12.62	20.12					
" " d.a.f	30.04	32.76					
Total Sulphur %	0.20	0.25					
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Chlorine %	0.02	0.03					

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read

Harold Read
Manager - Coal Exploration
Services



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SGS Australia Pty. Ltd.

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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1007

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania
Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W61 (69.88-71.64m)

ANALYSIS	1	2	3	4	5	Composite 2-5 incl	Composite 2 + 5
Total Moisture %		4.5	4.2	4.7	4.3		
Moisture %	5.6	8.3	4.3	4.6	8.1	6.2	8.1
Ash %	75.1	40.8	88.3	79.1	41.8	61.4	41.4
Volatile Matter %						4.9	5.3
Fixed Carbon %						27.5	45.2
Crucible Swelling No.							
Specific Energy Mj/kg						8.04	15.28
" " d.a.f.						24.82	30.26
Total Sulphur %						0.43	0.79
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	2.18	1.73	2.45	2.24	1.79		
Chlorine %						0.02	0.04

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read

Harold Read
Manager - Coal Exploration
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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W64A

COAL SEAM 30.75m - 31.41m

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	<u>(m)</u>		
30.75	- 30.79	0.04	Coaly Shale, with coal lenses, heat affected.	1
30.79	- 30.85	0.06	M/S, clayey, carbonaceous - coal lenses, broken core	2
30.85	- 30.97	0.12	Carbonaceous Shale	3
30.97	- 31.35	0.38	Coaly shale, grey.	4
31.35	- 31.41	0.06	Coal, dull, shaly, heated, minor bright lenses	5
		<hr/> 0.66	TOTAL	

.....*H. Read*.....

Harold Read
Manager - Coal Exploration
Services

5/8/81



SGS Australia Pty. Ltd.

VICTOR PETROLEUM AND RESOURCESWOODBURY COAL PROJECTBOREHOLE DDH W64ACOAL SEAM 38.20m-38.75m

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	<u>(m)</u>		
38.20	- 38.25	0.05	Coaly Shale, thin bright lenses, calcite mineralised.	1
38.25	- 38.40	0.15	Carbonaceous shale, coaly, calcite mineralised, broken core.	2
38.40	- 38.45	0.05	M/S, green/grey, soft	3
38.45	- 38.75	0.30	Coal, dull and bright, shaly, calcite mineralised fractures, broken core, weathered and heat affected.	4
		<u>0.55</u>	TOTAL	

H. Read
 Harold Read
 Manager - Coal Exploration
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5/8/81



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SL1058 8/96 65

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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1058

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W64A (30.75m - 31.41m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2	3	4	5		
Total Moisture %	.04	.06	.12	.38	.06		
Moisture %	2.8	8.6	3.1	2.4	2.3		
Ash %	59.7	81.2	73.7	94.3	37.2		
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy MJ/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	2.00	2.28	2.24	2.68	1.67		

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read

Harold Read
Manager - Coal Exploration
Services



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1058

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
 Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave,
 Sandy Bay, Tasmania
 Mr J. Smith PO Box 29,
 Campbelltown, Tasmania.

SAMPLE REFERENCE: Woodbury Coal Project,
 DDH W64 (38.20m-38.75m)

ANALYSIS	1	2	3	4			
Total Moisture %	.05	.15	.05	.30			
Moisture %	2.4	8.8	8.5	5.7			
Ash %	64.6	80.3	78.0	48.9			
Volatile Matter %							
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy MJ/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	2.47	2.29	2.24	2.00			

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON: Air Dried

H. Read
 Harold Read
 Manager - Coal Exploration
 Services



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VICTOR PETROLEUM AND RESOURCESWOODBURY COAL PROJECTBOREHOLE DDH W67COAL SEAM 12.67m - 13.00m

Depth					
<u>From (m)</u>	<u>To (m)</u>	<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>	
12.67	- 12.77	0.10	Coal, dull shaly.	1	
12.77	- 12.80	0.03	Mudstone, Brown.	2	
12.80	- 13.00	0.20	Shale, carbonaceous, coaly in parts.	3	
		0.33	TOTAL		

*H. Read*Harold Read
Manager - Coal Exploratic
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VICTOR PETROLEUM AND RESOURCESWOODBURY COAL PROJECTBOREHOLE DDH W67COAL SEAM 23.57m - 23.93m

Depth					
<u>From (m)</u>	<u>To (m)</u>	<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>	
23.57	- 23.86	0.29	Shale, coaly, heat affected.	1	
23.86	- 23.93	0.07	Mudstone, grey, carbonaceous at top	2	
		0.36	TOTAL		

H. Read.....
Harold Read
Manager - Coal Exploration
Services



VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W 67

COAL SEAM 53.80m - 54.83m

Depth		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>			
53.80	- 53.98	0.18	Coal, dull shaly, heat affected.	1
53.98	- 54.10	0.12	Shale, grey, carbonaceous	2
54.10	- 54.27	0.17	Coal, dull, shaly, with thin bright coal lenses, calcite mineralisation.	3
54.27	- 54.37	0.10	Shale, coaly, with thin bright coal lenses.	4
54.37	- 54.83	0.46	Coal, dull and bright, shaly, heat affected, coaly shale over lower 0.03m	5
		<hr/> 1.03	TOTAL	

.....*H. Read*.....

Harold Read
Manager - Coal Exploration
Services



Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1008

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W67 (12.67m-13.00m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2	3	Composite 1-3 incl.
Total Moisture %				
Moisture %	1.7	1.5	4.4	2.8
Ash %	34.3	87.6	57.0	55.5
Volatile Matter %				9.4
Fixed Carbon %				32.3
Crucible Swelling No.				
Specific Energy Mj/kg				12.80
" " d.a.f.				30.70
Total Sulphur %				0.24
Carbon %				
Hydrogen %				
Nitrogen %				
Oxygen %				
Carbon Dioxide %				
Relative Density	1.62	2.49	1.89	
Chlorine %				0.02

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read

Harold Read
Manager - Coal Exploration
Services



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Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1008

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
 Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
 Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
 DDH W67 (23.57m-23.93m)

Mr J. Smith, PO Box 29,
 Campbelltown, Tasmania

ANALYSIS	1	2	Composite 1 + 2				
Total Moisture %							
Moisture %	2.9	3.8	2.9				
Ash %	42.4	80.9	51.6				
Volatile Matter %	10.8		9.8				
Fixed Carbon %	43.9		35.7				
Crucible Swelling No.							
Specific Energy Mj/kg	17.84		14.60				
" " d.a.f	32.62		32.08				
Total Sulphur %	0.28		0.23				
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.78	2.26					
Chlorine %	0.02		0.03				

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read

Harold Read
 Manager - Coal Exploration
 Services



This Laboratory is registered by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed in accordance with its terms of registration.



Laboratories Division
COAL ANALYSIS REPORT

REPORT No.: SL1008

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W67 (53.80m-54.83m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2	3	4	5	Composite 1-5incl	Composite 3 + 5
Total Moisture %							
Moisture %	4.9	4.3	5.9	4.5	6.6	5.5	6.6
Ash %	52.0	89.1	31.7	68.8	43.5	53.9	41.2
Volatile Matter %						6.5	7.0
Fixed Carbon %						34.1	45.2
Crucible Swelling No.							
Specific Energy Mj/kg						11.46	16.32
" " d.a.f.						28.22	31.44
Total Sulphur %						0.43	0.59
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.85	2.47	1.60	2.05	1.67		
Chlorine %						0.03	0.02

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

H. Read

Harold Read
Manager - Coal Exploration
Services



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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W67

COAL SEAM 39.05m - 40.15m

<u>Depth</u>		<u>Interval</u> (m)	<u>Description</u>	<u>Sample No.</u>	
<u>From (m)</u>	<u>To (m)</u>				
39.05	- 39.16	0.11	Coal, dull, shaly.	}	
39.16	- 39.19	0.03	Coal, bright.		
39.19	- 39.26	0.07	Coal, mainly dull, minor bright lenses.		
39.26	- 39.35	0.09	Coal, dull, sideritic(?).		
39.35	- 39.40	0.05	Coal, dull with bright lenses, sideritic.		1
39.40	- 39.44	0.04	Coal, dull.		
39.44	- 39.64	0.20	Coal, dull, shaly.		
39.64	- 39.80	0.16	Coal, dull with minor bright lenses.	}	
39.80	- 40.15	0.35	Coal, banded bright and dull; shaly over lower 0.01m		2
		1.10	TOTAL		

NOTE: Ticket marked 40.15m approximately 0.10m from end of run, presumed to be at base. If ticket was in correct position, base of seam is 40.25m, i.e. seam is 1.20m thick.

H. Read
.....
Harold Read
Manager - Coal Exploration
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940250

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL0942

DATE IN: 30/6/81

DATE OUT: 3/7/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W67 (39.05m-40.15m)

ANALYSIS	39.05-39.64m	39.64-40.15m	Composite 39.05-40.15m.				
Total Moisture %							
Moisture %	2.6	3.2	2.8				
Ash %	28.6	22.3	25.6				
Volatile Matter %			12.3				
Fixed Carbon %			59.3				
Crucible Swelling No.							
Specific Energy Mj/kg			23.98				
" " "	Calc daf		33.50				
Total Sulphur %			0.42				
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %							
Relative Density	1.50	1.42					
Chlorine %			0.05				

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried Basis

H. Read

Harold Read
Manager - Coal Exploration Services



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VICTOR PETROLEUM AND RESOURCES

WOODBURY COAL PROJECT

BOREHOLE DDH W63

COAL SEAM 15.00m - 16.20m

Ed These appear to be reverse

<u>Depth</u>		<u>Interval</u>	<u>Description</u>	<u>Sample No.</u>
<u>From (m)</u>	<u>To (m)</u>	(m)		
15.00	15.20	0.20	Coal, banded bright and dull, shaly	1 25-1
15.20	15.35	0.15	<i>incl.</i> Shale, carbonaceous.	2 66-6
15.35	15.42	0.07	Coal, dull and bright, shaly	3 26-6
15.42	15.45	0.03	<i>incl.</i> Claystone, light grey	4 26-2
15.45	15.65	0.20	Coal, dull and bright, shaly.	5 25-9
15.65	15.70	0.05	Carbonaceous shale, soft, contaminated with drilling mud	6 55-1
15.70	16.20	0.50	Coal, dull, shaly, broken in parts. (drilling mud contaminated fines left out of sample)	7 54-1
		1.20		

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SL 1057 7/52 95

940252

Laboratories Division

COAL ANALYSIS REPORT

REPORT No.: SL1057

DATE IN: 8/7/81

DATE OUT: 5/8/81

CLIENT: Victor Petroleum and Resources

CLIENT REFERENCE:

ADDRESS: Suite 3, 1373 Burke Road, East Kew
Victoria 3102

RESULTS TO: Mr E Eschuys

COPY TO: Mr T. Summons, 1 Greenlands Ave.
Sandy Bay, Tasmania

SAMPLE REFERENCE: Woodbury Coal Project,
DDH W63 (15.00m-16.20m)

Mr J. Smith, PO Box 29,
Campbelltown, Tasmania

ANALYSIS	1	2	3	4	5	6	7
Total Moisture %	2.0	1.5	0.7	0.3	2.0	0.5	0.50
Moisture %	1.9	8.0	2.6	6.8	1.6	6.6	8.0
Ash %	28.1	66.6	80.6	26.2	25.9	53.1	54.1
Volatile Matter %			26.2	80.6		*	*
Fixed Carbon %							
Crucible Swelling No.							
Specific Energy MJ/kg							
Total Sulphur %							
Carbon %							
Hydrogen %							
Nitrogen %							
Oxygen %							
Carbon Dioxide %			*				*
Relative Density	1.50	1.99	2.35	1.49	1.52	1.81	2.21

DETERMINED IN ACCORDANCE WITH: AS1038

BASIS RESULTS REPORTED ON Air Dried

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Harold Read
Manager - Coal Exploration
Services



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\$573.00

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SGS Australia Pty. Ltd.

Sydney

74 McEvoy Street,
Alexandria, N.S.W.,
P.O. Box 163, Redfern, 2016
Tel.: 699-7625
Telex: AA 22395
Cables: Supervise

Victor Petroleum and Resources
Suite 3, 1373 Burke Road
East Kew
Victoria 3102

Attention: Mr E Eschuys

Date: 7/8/81

Our ref:

Coal Washability Study

Three seam sections have been analysed as requested for sizing and washability. In each case a composite was prepared from plies within designated coal sections, utilising the maximum amount of available sample. These composites, comprising coal of nominal topsize 12.7mm were first sized at 0.5mm. The plus 0.5mm fraction was then float/sink separated at gravities of 1.35, 1.40, 1.45, 1.50, 1.55, 1.60, 1.65, 1.70, 1.80, 1.90 and 2.00. Ash was determined on each fraction. The minus 0.5mm fraction was further sized at 250, 125 and 75 microns. Ash was determined on each size fraction. The results of these analyses, determined on drillholes W39 (22.54-25.47 metres), W41 (11.50-12.25, 16.55-19.32, 22.75-23.30 metres) and W46 (18.30-20.76 metres) appear on the following three pages.

Yours faithfully

H. Read

Harold Read
Manager - Coal Exploration
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SGS Australia Pty. Ltd.

940254

DDH W3922.54 - 25.47 metres

Initial sample Mass : 2.00 kg.

Table 1.	<u>Sizing Analysis</u>	<u>Mass %</u>	<u>Ash %</u>	
	12.7 x 0.5mm	92.1	38.9	(by calculation)
	0.5 x 0.25mm	4.4	49.3	
	0.25 x 0.125mm	1.8	43.4	
	0.125x 0.075mm	0.8	55.3	
	Minus 0.075mm	0.9	55.4	

Table 2. Float/sink Analysis of +0.5mm Fraction

	<u>Relative Density</u>	<u>Fractional</u>		<u>Cumulative</u>	
		<u>Mass %</u>	<u>Ash %</u>	<u>Mass %</u>	<u>Ash %</u>
Floats 1.35		16.7	8.5	16.7	8.5
S1.35 - F1.40		8.0	12.8	24.7	9.9
S1.40 - F1.45		8.3	18.3	33.0	12.0
S1.45 - F1.50		8.6	22.1	41.6	14.1
S1.50 - F1.55		5.4	28.4	47.0	15.7
S1.55 - F1.60		3.8	33.4	50.8	17.1
S1.60 - F.165		3.1	37.5	53.9	18.2
S1.65 - F1.70		2.6	41.2	56.5	19.3
S1.70 - F1.80		6.4	46.9	62.9	22.1
S1.80 - F1.90		7.7	54.0	70.6	25.6
S1.90 - F2.00		5.1	60.3	75.7	27.9
Sinks 2.00		24.3	73.2	100.0	38.9
Plus 0.5mm (by calculation)		92.1	38.9	92.1	38.9
Minus 0.5mm (from table 1.)		7.9	49.3	100.0	39.7

.....
H. Read

Harold Read
 Manager, - Coal Exploration
 Services



940255

DDH W41

11.50 - 12.25, 16.55 - 19.32, 22.75 - 23.30 metres

Initial sample Mass : 2.00 kg.

Table 1. Sizing Analysis

	<u>Mass %</u>	<u>Ash %</u>	
12.7 x 0.5mm	93.2	53.8	(by calculation)
0.5 x 0.25mm	3.0	57.9	
0.25 x 0.125mm	1.8	58.4	
0.125x 0.075mm	1.2	60.0	
Minus 0.075mm	0.8	60.5	

Table 2. Float/sink Analysis of +0.5mm Fraction

	<u>Relative Density</u>	<u>Fractional</u>		<u>Cumulative</u>	
		<u>Mass %</u>	<u>Ash %</u>	<u>Mass %</u>	<u>Ash %</u>
Floats 1.35		0.2	7.4	0.2	7.4
S1.35 - F1.40		0.3	8.1	0.5	7.8
S1.40 - F1.45		3.8	10.7	4.3	10.4
S1.45 - F1.50		5.1	15.1	9.4	12.9
S1.50 - F1.55		6.4	19.9	15.8	15.8
S1.55 - F1.60		9.4	24.9	25.2	19.2
S1.60 - F.165		8.4	29.2	33.6	21.7
S1.65 - F1.70		6.3	35.1	39.9	23.8
S1.70 - F1.80		11.1	40.5	51.0	27.4
S1.80 - F1.90		3.8	50.5	54.8	29.0
S1.90 - F2.00		2.6	55.4	57.4	30.2
Sinks 2.00		42.6	85.6	100.0	53.8
Plus 0.5mm (by calculation)		93.2	53.8	93.2	53.8
Minus 0.5mm (from table 1.)		6.8	48.4	100.0	53.4

..... *H. Read*

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 Manager - Coal Exploration
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DDH W4618.30 - 20.76 metres

Initial sample Mass : 0.60 kg.

Table 1.	<u>Sizing Analysis</u>	<u>Mass %</u>	<u>Ash %</u>	
	12.7 x 0.5mm	95.5	49.3	(by calculation)
	0.5 x 0.25mm	2.5	53.8	
	0.25 x 0.125mm	0.9	60.1	
	0.125x 0.075mm	0.5	61.0	
	Minus 0.075mm	0.6	57.8	

Table 2. Float/sink Analysis of +0.5mm Fraction

	<u>Relative Density</u>	<u>Fractional</u>		<u>Cumulative</u>	
		<u>Mass %</u>	<u>Ash %</u>	<u>Mass %</u>	<u>Ash %</u>
Floats 1.35		8.8	8.5	8.8	8.8
S1.35 - F1.40		4.8	12.5	13.6	9.9
S1.40 - F1.45		3.5	17.2	17.1	11.4
S1.45 - F1.50		3.7	23.2	20.8	13.5
S1.50 - F1.55		4.7	28.8	25.5	16.3
S1.55 - F1.60		3.0	30.8	28.5	17.8
S1.60 - F.165		5.7	35.7	34.2	20.8
S1.65 - F1.70		4.6	41.9	38.8	23.3
S1.70 - F1.80		8.9	48.2	47.7	28.0
S1.80 - F1.90		11.8	55.1	59.5	33.3
S1.90 - F2.00		14.0	67.3	73.5	39.8
Sinks 2.00		26.5	75.9	100.0	49.3
Plus 0.5mm (by calculation)		95.5	49.3	95.5	49.3
Minus 0.5mm (from table 1.)		4.5	56.4	100.0	49.3

.....*H. Read*.....
 Harold Read
 Manager - Coal Exploration
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EL 31/80

APPENDIX 3 & 4

OPEN HOLE LITHOLOGY LOGS.

OPEN FILE

A.O.	C.G.	E.O.	D.S.M.
1 SEP 1981			negatives
swore			E & I
DEPT. OF MINES			
REF. No: 7531/81			

EL 31/80

MICROFILMED

APPENDIX 3

OPEN HOLE LITHOLOGICAL LOGS

NB, DRILL RECORD Woodbury No 1 Shot 1 missing
 " " " No 7 " 1 "

Hole No.	Co-Ordinates		Collar Elevation	Date
	Easting	Northing		
W20	540 750	5 332 050	225.26	7.6.81

Depth in Metres	Description
0-2	Sand/soil: Unconsolidated and yellow colour
2-8	Sandstone: Yellow colour and weathered: coarse grained. Traces of calcite: brown mudstone
8-10	Sandstone as above with traces of brown mudstone.
10-12	Sandstone as above; possible clay pellet conglomerate; black mudstone.
12-14	Weathered yellow sandstone; brown mudstone, black mudstone.
14-16	Sandstone: pale yellow/grey: Unweathered grey sandstone (coarse): Calcite
16-18	Grey sandstone: coarse grained.
18-20	Grey sandstone (coarse), grey sandstone (fine), black mudstone and siltstone, carbonaceous siltstone.
20-22	Grey sandstone, grey sandstone (fine grained)
22-24	Grey siltstone, carbonaceous mudstone (soft).
24-26	Grey mudstone, grey siltstone, black mudstone.
26-28	Grey siltstone, soft grey clayey mudstone and sandstone.
28-34	Grey siltstone and mudstone
34-35	Grey siltstone
	Finished in Dolerite.

Hole No.	258 Co-Ordinates		Collar Elevation	Date
	Easting	Northing		
W23	536 300	5 330. 900	224.90	13.6.81

Depth in Metres	Description
0-6	Brown soil
6-8	Clay-white/yellow colour and soil.
8-16	Sandstone: medium grained, yellow colour and weathered
16-18	Sandstone (weathered and yellow), ferruginous layer.
18-20	Sandstone (weathered and yellow), Sandstone (medium and blue/grey colour).
20-22	Sandstone - medium grained and blue/grey colour.
22-32	Sandstone - medium grained and grey/greenish blue colour
32-34	Sandstone as above, mudstone (black) - coaley mudstone.
34-36	Mudstone (black), sandstone - medium (grey/green colour)
36-38	Sandstone (medium grained and grey/green colour)
38-40	Sandstone as above, Sandstone (grey colour), mudstone (black and clayey).
40-42	Siltstone/mudstone (grey colour)
42-44	Siltstone (grey colour), Sandstone (fine grained and grey).
44-46	Sandstone (medium grained and grey), mudstone (grey).
46-48	Sandstone (fine grained and grey colour).
48-50	Sandstone (fine and grey), sandstone (very fine and grey).
50-52	Sandstone (fine grained and grey).
52-54	Sandstone (fine grained), siltstone (grey colour)
54-56	Siltstone (grey colour)
56-58	Siltstone (grey), siltstone (white/yellow colour)
58-62	Sandstone (fine grained and grey)
62-64	Grey siltstone
64-66	Siltstone (grey), siltstone (dark grey), siltstone (white/yellow colour)
66-70	Siltstone (dark grey), siltstone (hard and grey colour)
70-72	Siltstone (lighter, grey colour)
72-74	Siltstone, grey colour
74-78	Siltstone (grey), siltstone with sandy texture
78-80	Siltstone (grey to dark grey colour), siltstone (grey)
80-82	Siltstone (grey)
82-84	Siltstone (grey colour), siltstone with sandy texture (grey)
84-86	Sandstone - fine grained and grey, siltstone - grey colour.
86-88	Sandstone (fine and grey colour), sandstone (fine and grey/brown), siltstone (grey).

Hole No. (	257 Co-Ordinates		Collar Elevation	Date
	Easting	Northing		
W23 (Contd.)				

Depth in Metres

Description

88-90	Sandstone (fine and grey colour), sandstone (fine and grey/ brown colour).
90-92	Sandstone - fine grained and brown colour.
92-94	Sandstone - fine grained and grey/green colour.
94-96	Sandstone (oxidized and weathered), siltstone (red/brown colour)
96-98	Siltstone (red/brown colour), very hard.
98-100	Dolerite - black, silicious and very fine grained.

TOTAL DEPTH - 100m.

	Co-Ordinates		Collar Elevation	Date
	Easting	Northing		
7(a)	541 200	5 331 120	228.67	

Depth in Metres	Description
0-2	Clay soil and weathered sandstone, orange in colour
2-6	Weathered sandstone
6-8	Sandstone (grey and lithic in nature).
8-10	Sandstone (grey) - 90%, mudstone (grey) 10%.
10-12	Sandstone (grey)
12-14	Sandstone (grey)
14-18	Sandstone (grey) - 95% of sample, mudstone (grey) - 5% of sample.
18-20	Sandstone (grey) - 65%, mudstone (grey) 35%, Tuff? - 5%.
20-22	Sandstone (grey) - 30%, mudstone (grey) - 60%, Tuffaceous material - 5%.
22-24	Sandstone (grey/brown) - 90%, mudstone (grey).
24-28	Sandstone (grey) - 80%, Sandstones (green) - 20%.
28-30	Sandstone (brown/grey) - 2%, sandstone (grey) - 60%, Sandstone (green) 20%.
30-36	Baked sandstone - hard dark grey but grain structure still visible.
36-38	Baked mudstone.
38-48	Baked mudstone or very fine grained dolerite.
48-50	As above but lighter colour - uphole contamination?
50-54	Dark Grey fine grained dolerite.
54-80	Dolerite - fresh and fine grained.

TOTAL DEPTH - 80m.

Hole No.	259 Co-Ordinates		Collar Elevation	Date
	Easting	Northing		
W31	536 100	5 330 200	224.06	12.6.81

Depth in Metres	Description
0-6	Sandy soil: yellow and clayey.
6-8	Dolerite rubble
8-10	Unconsolidated sand: soft and weathered.
10-12	Sandstone: medium grained yellow colour, weathered nature.
12-14	Sandstone: medium grained and grey colour.
14-16	Sandstone: grey to dark grey colour, coaley chips (very minor coaley layer).
16-20	Sandstone: grey and medium grained
20-22	Grey sandstone, black mudstone
22-26	Sandstone: grey colour
26-28	As above with some calcite chips.
28-30	Sandstone (grey), sandstone, slightly carbonaceous (dark grey/grey), black mudstone (minor).
30-42	Grey sandstone
42-50	Sandstone: grey, medium grained, sandstone, grey fine grained (smaller and hard chips).
50-54	Sandstone and siltstone (overnight; down hole contamination).
54-56	Sandstone (fine grained), sandstone (medium grained)
56-58	Sandstone: medium grained and grey colour.
58-60	Sandstone (fine), siltstone, grey and sandy nature.
60-62	Sandstone (fine), grey colour, Calcite, clay and mud.
62-64	Mudstone (grey colour), Siltstone (grey), Sandstone (fine grained and grey colour).
64-68	Sandstone fine grained and grey colour
68-70	Sandstone (medium grained and grey), siltstone (grey but in small amounts).
70-72	Sandstone (medium) with grey colour.
72-74	Sandstone: fine grained and grey colour
74-76	Siltstone (grey colour), sandstone (fine grained and grey colour)
76-78	Siltstone (grey colour), sandstone (fine to very fine and in minor amounts)
78-80	Sandstone (very fine grained), siltstone (grey colour).
80-82	As above with red/brown mudstone
82-84	Grey siltstone and mudstone
84-86	Siltstone/mudstone (grey), sandstone (medium grained and grey)
86-88	Grey siltstone/mudstone, traces of dark grey siltstone

Hole No.	260 Co-Ordinates		Collar Elevation	Date
	Easting	Northing		
W31				

Depth in Metres

Description

88-90	Grey mudstone, some grey sandy siltstone
90-92	Mudstone, grey colour and hard.
92-94	Mudstone grey colour and dark grey colour, hard
94-96	Mudstone/siltstone (grey), sandstone, fine grained and grey
96-98	Sandstone (very fine grained and grey), sandstone (greenish colour and fine grained).
98-102	Sandstone (fine and grey colour).
102-104	Sandstone (fine and grey, mudstone (grey and hard).
104-108	Mudstone, grey to dark grey colour.
108-110	Mudstone (grey to dark grey), sandstone (very fine grained)
110-112	Siltstone (grey and sandy), sandstone (very fine grained)
112-118	Grey Mudstone

TOTAL DEPTH 118m

Hole No.	261 Co-Ordinates		Collar Elevation	Date
	Easting	Northing		
W36	541 900	5 330 150	238.55	15.6.81

Depth in Metres	Description
0-8	Sandstone: weathered and yellow colour
8-14	Sandstone: weathered and yellow, sandstone, fresh and grey in colour.
14-22	Sandstone: medium grained and grey in colour
22-24	Sandstone: medium grained and grey in colour
24-26	Sandstone (grey), coal
26-28	Sandstone (grey) about 70%, coal, clays
28-30	Siltstone, dark grey with some coaley debris
30-32	Mudstones, dark grey colour
32-36	Sandstone, light grey colour
36-46	Sandstone: fine grained and light grey colour
46-48	Sandstone (fine and light grey), mudstone (yellow colour)
48-52	Sandstone (grey)
52-54	Sandstone (grey), mudstone (grey)
54-56	Sandstone (grey), about 15%, mudstone (grey) about 85%.
56-58	Mudstone (grey)
58-64	Sandstone (grey), mudstone, about 5% of sample
64-66	Sandstone (grey), mudstone (grey), dolerite (about 15%).
66-68	Dolerite, plus sandstone and mudstone - downhole contamination
68-70	Dolerite.
	TOTAL DEPTH - 70m

Hole No.	262 Co-Ordinates		Collar Elevation	Date
	Easting	Northing		
W43	535 800	5 329 100	229.16	11.6.81

Depth in Metres	Description
-----------------	-------------

0-4	Dolerite rubble
4-6	Mudstone (black), sandstone - weathered, dolerite - rubble
6-8	Mudstone (grey), traces of sandstone - grey and clayey
8-10	Sandstone - grey and medium grained, siltstone - grey, black
10-12	Sandstone - grey and medium grained, siltstone - grey black
12-14	Black carbonaceous material, sandstone, grey
14-20	Sandstone - grey
20-22	Sandy/silty - clay material, sandstone, grey.
24-30	Lost
30-34	Sandstone - grey with clayey texture
34-36	Sandy/clayey material, grey sandstone, minor amounts
36-40	Sandy/clay material, traces of sandstone
40-52	Mudstone grey
52-54	Mudstone grey, sandstone, grey and fine grained.
54-56	Dolerite, mudstone - grey
56-60	Dolerite
60-62	Dolerite (80%), Mudstone -(light grey colour)
62-66	Dolerite
66-68	Dolerite, minor siltstone and sandstone
68-72	Siltstone, dolerite, very minor amounts
72-74	Siltstone (grey/green) minor amounts, mudstone (70%), Dolerite (30%)
74-76	Dolerite (90%), minor siltstone from uphole contamination about 10%.
TOTAL DEPTH - 76m	

Hole No.	263 Co-Ordinates		Collar Elevation	Date
	Easting	Northing		
W53	539 700	5 328 050	294.25	22.6.81

Depth in Metres	Description
0-4	Soil, clayey nature and brown colour
4-6	Soil - clayey/sandy and yellow/orange in colour
6-8	As above but more orange in colour
8-10	Clay/sand soil with occasional white clayey pellets
10-18	Clay/sand - orange/yellow colour
18-22	Clay/sand but greater amounts of sand
22-26	Clay- yellow, mudstone grey, coaley debris 5-7%
26-28	Mudstone - grey, coaley debris 20%
28-30	Grey mudstone, coaley debris 10%
30-32	Grey mudstone, small amounts of coaley debris 5%
32-34	Mudstone - medium grey colour.
34-44	Mudstone - grey colour
44-50	Mudstone - grey/brown colour
50-56	Mudstone - grey/brown colour, siltstone 20% of sample
56-58	Coal and carbonaceous shale about 50-60% coal present
58-66	Mudstone - grey
	TOTAL DEPTH 66m

Hole No.	264 Co-Ordinates		Collar Elevation	Date
	Easting	Northing		
W62	542 100	5 329 600	270.00	15.6.81

Depth in Metres	Description
0-4	Sandstone: yellow/brown colour and weathered, soil
4-8	Sandstone: yellow and weathered
8-10	Sandstone (yellow and weathered), mudstone, grey colour
10-12	mudstone, brown, mudstone, grey
12-14	mudstone, grey, mudstone, brown green
14-16	mudstone grey
16-18	mudstone, grey, mudstone, darker grey colour
18-20	siltstone grey, sandstone, fine grained and grey
20-22	mudstone - dark grey colour
22-32	mudstone dark grey, sandstone, fine grained and grey
32-40	Sandstone, medium and grey Note: 28-36 Sandstone dissimilar to that intersected in coal bearing holes.
40-42	As above with traces of grey siltstone
42-48	Mudstone light grey, some small amounts of siltstone
48-50	Mudstone (light and grey with some siltstone)
50-52	Mudstone light grey colour
52-58	Mudstone, grey colour
58-60	Mudstone, medium and grey in colour
60-64	Sandstone (grey and fine grained), mudstone (grey)
64-70	Sandstone (grey colour)
70-72	Siltstone (grey/green colour), sandstones (grey colour)
TOTAL DEPTH 72m	

Hole No.	265 Co-Ordinates		Collar Elevation	Date
	Easting	Northing		
W64	542 100	5 328 800	261.12	17.6.81

Depth in Metres	Description
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0-4	Sandstone - weathered and yellow, soil
4-10	Sandstone, weathered and yellow
10-12	Sandstone, weathered and yellow, sandstone, unweathered and grey
12-16	Sandstone, grey
16-18	Sandstone, grey, mudstone, grey 15%, coaley material 35%
18-20	As above - lithic sandstones with coaley debris
20-22	Sandstone, grey, mudstone, grey, coaley debris down to 5%
22-24	As above, however, coaley debris only 3% now.
24-28	Sandstone, grey
28-30	Sandstone (grey) 50%, mudstone (grey) 15%, coaley material 35%
30-34	Coal
34-36	Mudstone (grey), some carbonaceous clayey material
36-44	Mudstone (dark grey 45%, mudstone/shale (light grey) 45%, clay 10%.
44-46	Mudstone (dark grey), clays 5%, mudstone/shale (light grey), coaley debris 5%.
46-50	Sandstone (grey colour)
50-52	Sandstone (grey) and small amounts of coaley material
52-58	Sandstone (grey)
58-60	Sandstone (grey) and small amounts of coaley material
60-70	Sandstone (grey)
70-72	Sandstone, grey 50%, mudstone/shale, dark grey 50%
72-74	Sandstone, grey with coaley debris about 5% - 7% of sample.
74-76	Sandstone, dark grey 20%, very small amount of coaley material 1-2%, sandstone, light grey 50%
76-78	Siltstone (light grey, mudstone/shale - carbonaceous 65%, coaley material 3%.
78-82	Mudstone, grey and silty, mudstone, light and grey, small amounts of coaley material
82-84	Mudstone/shale (medium grey colour)
84-86	Sandstone, grey colour, mudstone
86-92	Dolerite
TOTAL DEPTH 92m	

Hole No.	256 Co-Ordinates		Collar Elevation	Date
	Easting	Northing		
W65	541 000	5 329 000	240.02	18.6.81

Depth in Metres	Description
0-6	Sandstone, weathered and yellow in colour, soil
6-10	Sandstone - weathered
10-12	Sandstone, weathered and yellow, Sandstone, unweathered and grey
12-14	Grey sandstone, clay - carbonaceous in nature
14-16	Sandstone - grey in colour and clayey
16-18	Sandstone - grey 78%, Coaley material 2% of sample mudstone, grey 20%
18-20	Sandstone (grey)
20-22	Sandstone, grey 90%, Coaley material 10%
22-24	Sandstone - grey
24-26	Sandstone (grey) and small amounts of coaley material 1-2%
26-28	Mudstone, light and grey 40%, mudstone, dark grey 60%, Small amounts of coaley material
28-32	Mudstone, light grey
32-34	Mudstone (light grey) 70%, Sandstone (grey) 30%
34-36	Mudstone, dark grey 40%, Mudstone, light grey 30%, Sandstone 30%.
36-38	Mudstone, light grey colour
38-40	Mudstone, medium grey, Tuff, light cream colour 20%
40-42	Mudstone, medium grey, Tuff 5%, Sandstone, grey 20%
42-58	Sandstone, grey in colour
58-60	Sandstone, grey, small amount of coaley debris 2-5%
60-62	Sandstone, grey 50%, Mudstone, grey 40%, coaley debris 10%
62-64	Mudstone, grey 50%, sandstone, grey 30%, coal 15%, carbonaceous shale 5%
64-66	Carbonaceous shale 60%, mudstone, grey 10%, coal and coaley debris 30%
66-70	Coaley material - 10%
70-78	Mudstone, light grey colour
78-82	Mudstone, light grey, mudstone (brown red) 20%
82-84	Mudstone, grey 10%, mudstone, brown 30%, dolerite 30%
84-86	Mudstone, light grey 30%, dolerite 45%, weathered dolerite 25%

07 267

940271

of M.	A.O.	C.G.	E.C.	D.S.M.
Received	- 1 SEP 1981			Registrar
Answered				E & IL
DEPT. OF MINES				
REF. No. 7531/81				

EL 31/80

APPENDIX 4

OPEN HOLE LITHOLOGICAL LOGS

DRILLING RECORD

LOCATION: Woodbury No.1		CO-ORDINATES:
DATE:	METHOD:	DIAMETER:
SHEET 2 OF 4SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH.	GRAPHIC LOG.	REMARKS.
34		Grey sst 15% white silty matrix. 5% mafics. subang. - subrounded Q and F Ave 0.25mm.
36		As above
38		Grey sst as above
40		ditto
42		ditto
44		ditto
46		ditto
48		1. Grey sst. 10% mafics 5% matrix Q and F. subang.-subrounded. Ave 0.25mm. 2. V.fine grained sst. Ave 0.05 mm.
50		Fine grained grey sst. < 5% mafics. Ave 0.1mm.
52		Similar to above, but Ave 0.2mm.
54		As above
56		As above
58		1. Sst as above. 2. Coal.
60		1. Sst as above. 2. Coal. 3. Grey siltstone. 4. Very fine grained sst to sandy grey siltstone.
62		1. Grey sst similar to above, but 0.2mm Ave. 2. Similar sst but brownish staining in matrix - slightly darker.
64		Grey sst 5 - 10% mafics. Ave 0.25mm.

269

DRILLING RECORD

LOCATION: Woodbury No.1		CO-ORDINATES:
DATE:	METHOD:	DIAMETER:
SHEET 3 OF 4 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH.	GRAPHIC LOG.	REMARKS.
66		As above
68		As above
70		As above - larger grains up to 0.5mm.
72		Similar to 68M interval
74		Grey sst 10% mafics Q & F. subang. - subrounded. Ave size 0.2 - 0.25mm.
76		As above
78		As above
80		As above
82		1. Grey sst as above 2. Grey siltstone
84		1. Grey sst. 2. Grey to black siltstone - harder than above
86		As above
88		As above
90		Grey sst.
92		Grey sst. 15 - 20% mafics. Q.F. Ave. 0.2mm. sub-rounded.
94		As above
96		As above

270

DRILLING RECORD

LOCATION: Woodbury No.1	CO-ORDINATES:
DATE:	METHOD:
SHEET 4 OF 4 SHEETS.	HOLE ANGLE:

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
98		As above
100		As above
102		As above
104		Grey sst. < 5% mafics. - greenish colour in matrix.
106		Grey sst - similar to 46 to 51. Fairly soft. 15% matrix - crumbles easily when wet. Bulk sample = small chips.
108		As above
110		Grey sst 20% matrix subang. - subrounded < 5% mafics. Grains to 0.5mm Ave 0.2 to 0.25mm.
112		1. Grey siltstone - no mafic grains 2. Sst as above.
114		Grey siltstone as above
116		1. Grey siltstone as above 2. Light grey siltstone
118		Light grey siltstone as above
120	nr	Light grey siltstone - light grey sandy siltstone.
122	nr	Light grey sandy siltstone.
124	nr	1. Light grey siltstone 2. Yellow hard siltstone - does not scratch.
125	nr	? Very small chips - appears to be quite hard grey to dark grey siltstone

nr nr

271

DRILLING RECORD

LOCATION: Woodbury No.2		CO-ORDINATES: 147° 27' 52" E / 42° 11' 23" S
DATE: 10.2.81	METHOD: Rotary	DIAMETER:
SHEET 1 OF 3 SHEETS.		HOLE ANGLE:
COMMENTS: Mostly grey spotty sst.		
DEPTH.	GRAPHIC LOG.	REMARKS.
0 -		Light brown clay/sand soil horizon
2		
4		As above
6		1. As above 2. Pale yellow sandy clay. 3. Minor ferruginous sst.
8		White to pale yellow clays.
10		1. White to pale yellow clays 2. Pale yellow clayey fine sand
12		1. Pale yellow unconsolidated sand - clayey 2. Pale yellow consolidated chips of dirty sst. fine.
14		As above
16		Bulk sample - yellow/grey. Still clayey. Sst chips = yellowish. Sst - feldspar, Q black minls. subang.-subround. to 0.3mm. Ave 0.2mm.
18		As above
20		As above
22		As above
24		1. As above 2. As below
26		Grey (slightly bluish) sst. 1. Q & F sst. subang.-subrounded (yellowish) < 5% black minls. Ave. 0.2mm. 2. Q matrix 20% black minls. Ave. 0.25mm.
28		Grey sst. Q 20% matrix (softens easily with water). 15% black minls Ave 0.2mm.
30		1. Sst as above. 15% white clayey matrix. Mainly Q. some F. Biotite and black minls (15%). Ave 0.3mm. 2. As above.
32		1. As above, but 5 - 10% black minls. 2. Grey siltstone with v fine mica and black minls

272

DRILLING RECORD

LOCATION: W Woodbury No.2		CO-ORDINATES:
DATE:	METHOD:	DIAMETER:
SHEET2 OF 3 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH.	GRAPHIC LOG.	REMARKS.
34		Grey spotty sst. 15% black minls. - ang-subrounded. F. not abundant. Q biotite clay matrix.
36		1. As above. 2. More greenish sst - clay matrix = green (20%) biotite to black minls <5%. Q to 0.5mm. Ave 0.3mm. Minor F.?
38		1. Grey spotty sst. Q 15 - 20%. black minls. brown biotite, whitish matrix (10-15%). subrounded grains. Ave 0.25mm. 2. Finer grained and more matrix.
40		Sst - Ave 0.2mm. Subrounded - round. Finer than above. 10% black minls and biotite 10% matrix. Q and same F.
42		1. Finer grained than above (Ave. 0.15) and more clay/silt matrix (20% - 25%). 2. Grey micaceous siltstone with v.fine black minls.
44		1. Grey sst. Ave 0.2mm. 2. Grey siltstone. 3. Fine grained sst Ave 0.1mm. Minl compn. with some 3. coaly fragments.
46		1. Grey sst - 10% black minls 15% matrix and with coaly fragments in the sst. 1/2" across.
48		As above - no coaly fragments.
50		1. As above - 2. Grey siltstone
52		1. Sst as above 2. Silty sst with coaly banding.
54		Grey sst
56		1. Silty grey sst 0.2mm 5% black minls. 2. Coaly layer.
58		Silty (?) coal
60		1. Fine grained silty sst. 2. brownish grey sst - <5% black minls matrix brownish, not white
62		1. Grey sst. Little black minls. 20% matrix - buff coloured as above. 0.2mm subang.-subrounded. 2. Grey siltstone.
64		Grey sst. 15% white silt matrix. Q.F. 10-15% black minls and

DRILLING RECORD

273

LOCATION: Woodbury No. 2	CO-ORDINATES:	
DATE:	METHOD:	DIAMETER:
SHEET 3 OF 3 SHEETS.	HOLE ANGLE:	
COMMENTS:		

DEPTH.	GRAPHIC LOG.	REMARKS.
66		As above
68		1. As above 2. Grey to dark grey siltst. with (white grains), mica & coaly partings.
70		Grey sst 5 - 10% black minls. Mainly Q and F. Ang. to sub-rounded. Ave 0.2mm.
72		1. As above 2. Lesser amounts of grey siltst.
74		Grey sst as above
76		As above
78		As above
80		As above (also some black siltstone and coaly fragments)
82		ditto
84		ditto
86		ditto
88		ditto
90		1. Light grey clayey siltstone. 2. Grey siltstone - more compact. 3. Coal.
92		As above
94		1. Grey siltstone, some black minls - as above. 2. Light grey ill sorted siltstone. Clayey black minls & Q up to 0.4mm. 3. Greenish sst 0.3 Grey siltstone as above to 50% black minls.
96		

274

LOCATION: Woodbury No.3	COORDINATES: 147° 29' 9" E / 42° 11' 45" S	
DATE: 11/2/81		
SHEET 1 of 5 sheets		
COMMENTS: Mostly grey spotty ssts and coal.		

DEPTH	REMARKS
0 - 2	Grey/yellow sandy soil
4	As above
6	As above
8	Weathered yellowish sst. Q biotite, black opaques subrounded to 0.4mm. Ave 0.2mm. Yellowish clayey matrix.
10	As above. biotite is brown, also some weathered dolerite chips.
12	Yellow sst. Q feldspar, minor (1.2%) black opaques and brown biotite - subang.-subrounded. Clay matrix to 0.4mm Ave 0.25mm.
14	Yellow sst. Q feldspar, 5% of black opaques and biotite subang-subround. 0.5mm. Ave 0.25mm. 1 e.g. with secondary calciteucin. brown and black biotite.
16	1. As above 2. Finer grained sample - maximum 0.2mm.
18	Weathered sst as above
20	As above
22	As above
24	As above
26	As above
28	Grey sst
30	As above
2	1. Grey sst as above 2. Grey siltstone

LOCATION: Woodbury No.3

SHEET 2 of 5 sheets

DEPTH	REMARKS
34	Grey sst.
36	as Above
38	Grey spotty sst
40	As above
42	as above
44	as above
46	as above
48	as above
50	1. Grey sst 2. Coaly bits
52	1. Coaly bits 2. Grey clayey siltstone
54	1. Coaly bits 2. Grey clayey siltstone
56	Grey sst
58	As above
60	As above
62	As above
64	Grey sst - chips smaller than 56 - 62M interval. May

LOCATION: Woodbury No.3		
SHEET 3 of 5 SHEETS		
DEPTH		REMARKS
66		As above
68		As above
70		As above
72		As above
74		Grey sst.
76		As above
78		As above
80		As above
82		As above
84		As above
86		As above
88		As above
90		As above
92		1. Grey sst as above. 2. Grey siltstone. 3. Grey/black siltstone.
94		1. Grey sst. 2. Grey siltstone. 3. Coal
		As above

LOCATION: Woodbury No.3		
SHEET 4 of 5 SHEETS		
DEPTH		REMARKS
98		1. Grey siltstone. 2. Grey sandstone
100		1. Grey siltstone 2. Black siltstone
102		1. Grey siltstone 2. Less amounts of grey sst.
104		1. Grey siltstone. 2. Grey sandy siltstone. 3. 1 e.g. of a greenish sst as found in other holes.
106		Grey siltstone
108		1. Grey siltstone. 2. Grey sst. 3. Black siltstone.
110		1. Grey siltstone. 2. Grey sst.
112		As above
114		As above
116		As above
118		1. Grey sst. 2. Minor grey siltstone
120		As above
122		As above 50/50 sst and siltstone
124		1. Grey sst. 2. Minor grey siltstone
126		Grey sst.
128		As above.

LOCATION: Woodbury No.4	COORDINATES: 147° 29' 43" E / 42° 11' 36" S
DATE: 11/2/81	
SHEET 1 of 3 SHEETS	
COMMENTS: Grey spotty ssts and coal.	

DEPTH	REMARKS
0 - 2	Yellow sandy soil
4	As above
6	As above
8	1. Yellow sandy soil as above. 2. Grey spotty sst. 5% mafics Q.F. 5-10% silty white matrix, ang. = subround. Ave. 0.25mm.
10	As above
12	1. As above 2. As above but 10% mafi cs, Ave. grain size 0.3 - 0.4mm.
14	As above in (1).
16	1. As above but 0.2mm. 2. Grey siltstone with coaly partings. 3. Coaly bits.
18	Grey siltstone, some with numerous black laminae and coaly fragments.
20	1. Carbonaceous siltstone with black laminae. 2. Fine grained grey sst Ave. 0.1mm. 5% mafics.
22	1. Dark grey siltstone 2. Black coaly/carbonaceous siltstone
24	1. Dark grey siltstone. 2. Black carbonaceous siltstone 3. Coal - vitrius. 4. Black earthy coal.
26	1. Dark grey/black carbonaceous siltstone 2. Coal
28	1. Black carbonaceous siltstone 2. V.fine grained grey sst. Ave 0.1mm.
30	1. Grey siltstone 2. V.dark grey sst. 30-40% mafics. Ave 0.2mm.
32	1. Light grey siltstone, some with carbonaceous laminae.

LOCATION: Woodbury No.4		
SHEET 2 of 3 SHEETS		
DEPTH		REMARKS
34		1. Light grey siltstone (more abundant). 2. Grey siltstone. 3. Grey sst 10% mafics. 0.15mm Ave.
36		Grey sst. < 5% mafics. Q.F. 15% matrix.
38		As above
40		As above, but coarser grained. Ave 0.3 - 0.4mm.
42		As above
44		Texture and composition similar to above but Ave size 0.2 - 0.25mm.
46		1. Coarser grained sample as with 40M interval. 2. Similar to 44M interval.
48		As above in (2)
50		Similar to 40M interval.
52		As above
54		As above
56		As above
58		1. As above 2. Black siltstone.
60		1. Dark green siltst. with 0.3mm Q grains and carbonaceous laminae. 2. Grey sst as above. 3. Sandy siltst. similar to (1)
62		1. Sst as above 2. Coal. 3. Carbonaceous siltstone
64		Black siltstone

LOCATION: Woodbury No.4

SHEET 3 of 3 SHEETS

DEPTH		REMARKS
66		Grey siltstone
68		1. Grey siltstone 2. < Grey sst 5% mafics. 0.2mm
70		1. Grey siltstone (minor amounts) 2. Grey sst 15% mafics. brown biotite 0.7mm. Ave 0.3mm.
72		Grey sst as above.
74		Grey sst 15% white matrix. < 5% mafics Q.F. Ang.-subrounded → 0.7mm. Ave.0.4mm.
76		1. Grey sst - minor mafics. Ave 0.2mm. 2. hard white/light grey siltstone.
78	80	1. Hard light grey siltstone - same e.g.s with a spotty appearance (hornfelsic? of black minls/carbon. 2. Fine grained dolerit
	77	80 ~ ~ ~

LOCATION: Woodbury No.5		COORDINATES: 147° 26' 39" E / 42° 10' S
DATE: 13/2/81		
SHEET 1 of 2 SHEETS		
DEPTH		REMARKS
0 - 2		Yellow/brown clay sand. Soil horizon.
4		As above
6		Gritty gravelly soil (T?)
8		As above
10		As above
12		Brown siltstone
14		As above
16		1. Grey siltstone 2. Grey clays, siltstone
18		1. Grey siltstone 2. Black carbonaceous siltstone - hard, reasonably soft.
20		1. Grey siltstone - hard as in (1) above 2. Grey clayey silts - reasonably soft.
22		1. Grey siltst. 2. Some e.g. of a greenish siltst.
24		Grey siltstone
26		1. As above 2. Grey sandy siltstone
28		Grey siltstone
30		Grey to dark grey siltstone
32		Very fine grained dolerite - magnetic - no visible grains grey siltstone.

LOCATION: Woodbury No.6		COORDINATES: 147° 29' 58" E / 42° 10' 59" S
DATE: 15/2/81	METHOD: Percussion	
SHEET 1 of 4 SHEETS		
DEPTH		REMARKS
0 - 2		Yellow sandy clayey soil horizon.
4		Yellow sst - weathered. Minor mafics Q.F. Subang.-subrounded. Ave 0.25mm.
6		As above
8		As above
10		1. As above 2. Brown/yellow siltstone
12		Yellow sst.
14		As above
16		1. Yellow/brown siltstone 2. Yellow sst.
18		Yellow sst.
20		1. Yellow sst. 2. Brown siltstone.
22		Grey sst - grey matrix little mafics. Q.F. Ave 0.3mm. not the same as grey sst from other holes.
24		1. Grey sst as above 2. Whitish sst - similar texture Cl Q & yellow F.
26		Grey sst as above
28		As above
30		1. Grey siltst. 2. Whitish/Light grey siltstone. 3. Some sst as above.
32		1 and 2 - as above

LOCATION: Woodbury No.6		
SHEETS 2 of 4 SHEETS		
DEPTH		REMARKS
34		1. Grey siltstone. 2. Dark grey siltstone. 3. V.fine grained sst - silty some large bits biotite
36		1. Grey siltstone. 2. dark grey siltstone 3. Grey clayey siltstone
38		Grey siltstone
40		1. Grey siltstone. 2. Clayey siltstone 3. Silty grey v.fine grained sst.
42		1. Grey siltst. 2. Dark grey siltst. 3. Whitish clayey siltst.
⁴² 44		Grey siltst. Grey sst.
46		Grey sst - 20% mafics Q.F. fine grained. Ave 0.1mm. Subang - subrounded.
48		As above
50		As above
52		Grey sst - similar to 26M interval
54		1. As above 2. Grey siltstone
56		Sst as above
58		ditto
60		ditto
62		ditto

LOCATION: Woodbury No.6		
SHEET 3 of 4 SHEETS		
DEPTH		REMARKS
64		ditto
66		1. Grey sst 2. Grey siltst.
68		As above with minor siltst.
69 -70		1. Grey siltst. 2. Dark grey siltst. 3. Grey sst.
72		1. Dark grey siltst. 2. Grey siltst. 3. Minor white siltst.
74		1. Grey siltst. 2. Dark grey siltst.
76		As above
78		Dark grey Siltst.
80		1. Grey siltst. 2. Dark grey siltst.
82		1. Grey siltst. 2. Grey sandy siltst.
84		1. Grey siltst. 2. Dark grey siltst.
86		1. Black siltst - magnetic, 1 e.g. showed 0.5mm Q veins 2. Grey siltst.
88		1. Black siltstone - hard. 2. Grey siltst. 3. Greenish grey siltst.
90		1. Black siltstone as above 2. White hard siltstone
92		Black siltstone
94		Black siltstone -still magnetic

LOCATION: WOODBURY No. 6

SHEET 4 of 4 SHEETS

DEPTH		REMARKS
96		As above
98		As above
100		As above
100 ⁰⁰ -102		1. Grey siltst (contamination?). 2. White with black veining cherty material contamination. 3. dolerite.
104		dolerite
106		ditto
108		ditto
110 - 154		ditto

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DRILLING RECORD

LOCATION: WOODBURY NO. 7		CO-ORDINATES: 147° 27' 42" E / 42° 10' 38" S
DATE: 18/2/81	METHOD:	DIAMETER:
SHEET 1 OF 2 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH.	GRAPHIC LOG.	REMARKS.
0 - 2		Rich brown clay soil
4		Yellow/brown clay - minor amounts of Fe stained pebbles.
6		As above
8		1. As above 2. Highly carbonaceous siltstone and vitreous coal.
10		1. Grey clay 2. Minor grey siltst.
12		1. Grey sst. 5% mafics. Q.F. white silty matrix. Ave 0.25 - 0.3mm. 2. Minor amounts of grey siltst.
14		1. Grey sst as above 2. 50% clay/silt, 50% sand. Ave size 0.2 - 0.25mm. soft.
16		Grey sst similar to 12M interval. less mafics.
18		Grey sst - slightly finer. Ave 0.2mm.
20		Grey sst. < 5% mafics. 0.2 - 0.25mm ave.
22		1. Grey sst. Ave 0.25mm. 5% mafics. 2. 1 e.g. showing coaly partings. 3. Darker grey sample Ave 0.25 - 0.2mm. subrounded. No black opaque bands. 5% brown biotite.
24		1. Grey sst 0.25 - 0.3mm 5% mafics 2. Biotite sst as above.
26		1. Grey sst as above 2. Grey v.fine grained sst.
28		1. Grey sst < 5% mafics. 0.25 - 0.3mm. 2. Grey siltstone
30		Grey sst, as above
32		As above

DRILLING RECORD

LOCATION: WOODBURY #7	CO-ORDINATES:
DATE: 18.2.81	METHOD:
SHEET 2 OF 4 SHEETS.	DIAMETER:
HOLE ANGLE:	

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
38		grey sst 5% mafics subong-rounded Q.F. 5 - 10% white silty matrix ave 0.2 mm
40		as above but C 5% mafics
42		grey sst. 5% mafics ave 0.25-0.3 mm
44		as above
46		1) sst as above 2) grey silted 3) non vitreous coaly matl.
48		1) sst as above c̄ grains up to 0.6 mm 2) grey silted
50		sst as c̄ # 24
52		1) coarser grained sst -- 0.8 mm ave 0.4 - 0.5 mm 2) grey sst fine grained 0.1 - 0.2 mm - some c̄ coaly partings
54		grey sst L 5% mafics 0.2 - 0.25 mm subong - rounded
56		Similar to above but slightly more mafics.
58		as above
60		grey sst coarser grained 0.4 mm
62		as above #30
64		1) sst as above 2) grey silted c̄ coaly partings (?)
66		grey sst 0.25 mm L 5% mafics

DRILLING RECORD

LOCATION:	WOODBURY #7	CO-ORDINATES:
DATE:	18.2.81	METHOD:
SHEET 3 OF 4 SHEETS.	HOLE ANGLE:	

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
		Ditto
68		
70		grey sst 0.25 - 0.3 mm
72		grey sst 0.3 mm
74		1) soft clayey sst 2) grey sst 3) coaly fragments
76		1) grey sst L 5% mafics 0.3 mm 2) sst c̄ coaly bits 3) coaly bits 4) grey siltst.
78		1) grey sst L 5% mafics 0.2 - 0.25 mm 2) grey siltst.
80		grey sst 0.2 mm
82		grey sst 0.3 mm
84		as above - subr. - rounded 5% mafics
86		1) grey sst. 0.25 mm 2) grey siltst. 3) silty coaly matl.
88		Ditto 1) grey siltst. 2) less grey sst.
90		grey sst. 5% mafics subong - subr. 0.2 - 0.25 mm
92		grey sst. coarser 0.4 mm subong - rounded
94		highly carbonaceous siltstone - black
96		1) as above 2) coaly material

DRILLING RECORD

air photo check

LOCATION: WOODBURY #8	CO-ORDINATES: 147° 26'41"E/42° 11'14"S
DATE: 4.3.81	METHOD:
SHEET 1 OF 2 SHEETS.	DIAMETER:
HOLE ANGLE:	

COMMENTS:

DEPTH. Metres	GRAPHIC LOG.	REMARKS.
0 - 2		brown clay/sandy soil
4		Ditto
6		yellow clay
8		Ditto
10		weathered yellowish sst.
12		Ditto
14		Slightly weathered (yellowish) grey sst. some coaly partings ave 0.2mm clay/silty matrix
16		grey sst. Q & F ave 0.25mm 25% white silty Matrix soft 5% black opaques
18		Ditto
20		Similar to above very soft & clayey bulk sample
22		1) Ditto 2) lesser amounts of silty coaly bits
24		1) black clay 2) coal
26		Slightly greenish sandy siltstone calcite veins visible
28		grey clay some carbonaceous bits (dk brown)
30		grey clay

DRILLING RECORD

295

air photo check

LOCATION: WOODBURY #9		CO-ORDINATES: 147° 25' 13"E/42° 10' 51"	
DATE: 4.3.81	METHOD:	DIAMETER:	
SHEET 1 OF 4 SHEETS.		HOLE ANGLE:	

COMMENTS: Greater % of clay than other holes

DEPTH. Metres	GRAPHIC LOG.	REMARKS.
0 - 2		yellow sandy soil
4		yellow/brown clay/sand soil horizon
6		yellow clay and dk brown femiginized sandstone chips
8		80% yellow clay c̄ some pebbles as above
10		Ditto
12		grey/brown femiginized loose sand
14		grey/slightly greenish loose sand subrounded ave 0.25mm - sample.
16		grey/green loose sand as above ave 0.2mm greater % of silt/clay matrix - more puggy in bulk sample.
18		Similar to above but greater % of matrix bulk sample quite clayey - sand fraction as above.
20		grey sst. subong - subrounded ave 0.2mm 5% black opaques 25% matrix - soft
22		Soft grey sst. as above
24		Ditto
26		Black carbonaceous clay
28		grey sandy clay
30		Soft grey sst. 0.2mm 30% matrix White silt/clay

296

DRILLING RECORD

LOCATION: WOODBURY #9		CO-ORDINATES:
DATE: 4.3.81	METHOD:	DIAMETER:
SHEET 2 OF 4 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH. Metres	GRAPHIC LOG.	REMARKS.
16 32		Ditto
34		Ditto
18 36		As above but coarser grained. Ave 0.25 mm Max. 0.5 mm Subong - subround. L5% black opaques
38		Soft clayey grey sst. ave 0.2mm greater % of matrix than # 18 - bulk sample more clayey
20 40		Gradation from soft to hard 1) as above 2) soft grey sst. 0.2 - 0.25 5% black opaques 3) grey sst. ave 0.25mm 10% matrix 10% blk sand
42		1) grey sst. suba - subr. 5 - 10% black opaques - ave 0.4 mm 10% Matrix 2) finer grained - ave 0.2 - 0.25mm 3) coal.
22 44		Soft clayey sandstone - similar to 14
46		Soft grey sst. - more consolidated than #22 20% matrix L 5% blk opaques ave 0.2mm
24 48		Ditto
50		1) grey/slightly greenish sst c̄ coaly partings ave 0.2mm - 0.5mm 2) grey sst c̄ calcite 3) Lt. grey siltst.
26 52		Soft clayey grey sst. ave 0.3 - 0.4 mm 5 - 10% blk opaques
54		1) grey sst. 10% blk op. ave 0.3 - 0.4mm little clay matrix 2) coaly bits
28 56		Soft clayey grey sst.
58		1) as above 2) grey sst. little clay matrix ave 0.25mm 5% blk op.
30 60		Ditto

297

DRILLING RECORD

LOCATION: WOODBURY #9		CO-ORDINATES:
DATE: 4.3.81	METHOD:	DIAMETER:
SHEET 3 OF 4 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH. Metres	GRAPHIC LOG.	REMARKS.
62		Soft grey sst. - clayey 5% blk op.
64		1) as above - 20% matrix 5% blk op. 0.2mm subr - rounded
66		1) Ditto 2) greenish siltst. 3) harder grey sst. - L5% mafics suba-subr ave 0.25mm
68		1) Soft grey sst. 2) grey/brown siltst.
70		1) soft grey siltst. 0.2 mm little blk op. 2) grey v. fine gr. sst. ave 0.1mm 2) grey/brown sandy siltst.
72		1) Soft grey sst. 2) grey siltst. 3) Lt. grey siltst. 4) grey siltst. c̄ carbonous
74		grey siltstone - some minor coaly bits
76		1) coal 2) grey siltst. could be some soft grey sst.
78		Mostly grey & black siltstone - some coaly bits
80		grey siltstone
82		1) Mostly grey siltstone 2) grey sst. - little matrix 0.2mm
84		1) grey sst. 0.2mm 2) Z.F. gr. sst. L 0.1mm and some siltst.
86		Hard grey sst. No blk op. some brown biolite - greater % Q some F. Suba - Subr. ave 0.15 - 0.2 mm - little matrix
88		Ditto - dker in colour than sst. c̄ coal (smokey Q?) some calcite.
90		grey sst as above

DRILLING RECORD

299

air photo check

LOCATION: WOODBURY #10		CO-ORDINATES: 147° 27'42"E/42° 10'5" S	
DATE: 5.3.81	METHOD:	DIAMETER:	
SHEET 1 OF 4 SHEETS.		HOLE ANGLE:	

COMMENTS:

DEPTH. Metres	GRAPHIC LOG.	REMARKS.
0 - 2		yellow clay/loose sand soil horizon
2	4	grey sst. suban - subr. 10% blk op. 10% white matrix ave 0.25 mm
6		Ditto - coarser grained 0.4mm
4	8	Ditto
10		Ditto
12		Ditto
14		Ditto
16		1) Ditto 2) dk grey siltst. 3) a few coaly bits
18		1) Lt. grey siltst. 2) grey siltst. - some c̄ coaly partings 3) coal 4) Fine grey sst.?
20		grey sst. 5% bk op. ave 0.3mm
22		Ditto
24		grey sst. dker than above 10% blk op. grains up to 0.6mm ave 0.3 - 0.4 mm subr - rounded
26		Ditto
28		Ditto
30		Ditto

300

DRILLING RECORD

LOCATION: WOODBURY # 10	CO-ORDINATES:
DATE: 5.3.81	METHOD:
SHEET 2 OF 4 SHEETS.	DIAMETER:
HOLE ANGLE:	

COMMENTS:

DEPTH. Metres	GRAPHIC LOG.	REMARKS.
16 32		1) grey siltstone 2) dker coalier fractions
34		grey siltst.
18 36		grey sst. similar to #12
38		Ditto
20 40		Ditto
42		Ditto
2 44		Ditto
46		Similar in description to above but lighter in colour
48		Ditto 5% blk op.
50		Ditto
52		1) Ditto 2) grey siltst. 3) coaly siltstone
54		grey siltst.
28 56		1) grey siltst. 2) grey sst. 0.25 mm
58		siltst.
30 60		grey siltst.

301

DRILLING RECORD

LOCATION: WOODBURY # 10	CO-ORDINATES:
DATE: 5.3.81	METHOD:
SHEET 3 OF 4 SHEETS.	DIAMETER:
HOLE ANGLE:	

COMMENTS:

DEPTH. Metres	GRAPHIC LOG.	REMARKS.
		Ditto
62		
32 64		1) Minor amounts of grey siltst. as above 2) grey sst. 5% blk op. 10% matrix 0.2mm suba - subr.
66		Ditto - equal amounts
34 68		Ditto - 75% siltst.
70		grey siltst.
36 72		Ditto
74		1) grey siltst. 2) grey sst.
8 76		fine gr. grey sst. L 0.1 mm
78		1) grey siltst. 2) grey sst. 0.2 mm 3) coaly bits
80		1) & 2) as in #38
82		grey sandy siltst.
84		1) grey sst. - no white matrix 0.2 mm suba-subr. 2) grey siltst. 3) white calcite chips
86		grey sst. as above
88		1) grey sst. as above 2) grey siltst.
90		1) Lt. grey siltst. 2) Minor amounts of grey siltst.

LOCATION: WOODBURY # 11		CO-ORDINATES: 147° 28' 10"E/42° 9' 8"S	
DATE: 6.3.81	METHOD:	DIAMETER:	
SHEET 1 OF 4 SHEETS.		HOLE ANGLE:	
COMMENTS: Clean (mostly) white Q. sst's			

DEPTH. Metres	GRAPHIC LOG.	REMARKS.
0 - 2		yellow clay
4		Ditto
6		Q. rich blue/grey clayey sst. 0.1 mm subr - rounded
8		Ditto
10		Similar to above but colour white/grey
12		Ditto
14		Ditto
16		Ditto - but more whitish
18		More consolidated than above - definite chips. Clean white Q sst. 0.1mm subr - rounded - 11 blk opaques No F.
20		as above 15% F
22		Ditto - suba - subr.
24		White Q sst. - more poorly sorted than above
26		White Q sst. suba- subr. 0.15 mm not as well sorted as # 9. Traces of blk op. & F.
28		Ditto
30		1) Cleaner looking Q sst. 0.2mm subr - r. 2) Poorly sorted Q. sst. 0.1mm suba-subr. 3) dk grey siltst.

LOCATION: WOODBURY # 11	CO-ORDINATES:
DATE: 6.3.81	METHOD:
SHEET 2 OF 4 SHEETS.	DIAMETER:
	HOLE ANGLE:

COMMENTS:

DEPTH. Metres	GRAPHIC LOG.	REMARKS.
16 32		Q sst. 0.15 mm poorly sorted - matrix Suba - subr. - has larger coal grains 0.5 mm
34		Ditto
18 36		Ditto
38		Ditto
20 40		Q sst. 0.2 mm cleaner & more rounded than above. Almost no matrix 2) dk grey/blk siltst.
42		Q sst. 0.2 mm not as porous looking as above. Coal bits still visible subang - subr. No F.
22 44		Clean Q sst. 0.15 mm - more rounded than above.
46		Q sst. some minor amounts F. 5 - 10% matrix 0.15 mm
24 48		Ditto
50		Ditto
26 52		Fine gr. Q sst. subang 0.1 mm 15% matrix - white
54		Ditto
28 56		White Q sst. ill sorted suba-subr. little matrix traces blk op. No F.
58		Compact (less pore space than above) Q sst. 0.15mm mostly subong - silicified
30 60		1) Pale green clear Q sst. 0.2mm subang (some subr) No matrix traces blk op. 2) white Q sst. 0.15 - 0.2 m 15% matrix subg - subr.

LOCATION: WOODBURY # 11	CO-ORDINATES:
DATE: 6.3.81	METHOD:
SHEET 3 OF 4 SHEETS.	DIAMETER:
HOLE ANGLE:	

COMMENTS:

DEPTH. Metres	GRAPHIC LOG.	REMARKS.
62		White Q sst. suba-subr. 0.15mm compact - silicified little or no matrix.
64		White Q sst. ill sorted 0.2 mm subr. 5-10% matrix
66		Ditto
68		White Q sst. suba-subr 0.2mm suba little matrix intergranular space
70		White Q sst. suba-subr. 0.15 mm little matrix compact
72		Very clayey bulk sample - grey 1 chips - V. fine Q sst. 0.1mm abundant silk/clay matrix
74		1) grey sandy clay as above 2) Q sst. ill sorted 10% matrix 0.15 mm suba-subr.
76		No clay - Q sst. as in 2) above but ave size 0.1 mm
78		Ditto - some coal chips (0.4mm) visible again
80		Q sst. suba-subr. 0.15mm compact little matrix some grains - 0.5 mm
82		Ditto
84		Similar to above - 10% matrix - no pore space
86		fine gr. Q sst. 0.1 mm 10 - 15% matrix suba- subr.
88		Q sst. compact some matrix 0.15 mm some grains up to 0.25 mm L 5% blk op.
90		Fine gr. sst. 0.1 mm compact

LOCATION: WOODBURY # 12	CO-ORDINATES: 147° 30'31"E/42° 11'45"S	
DATE: 7.3.81	METHOD:	DIAMETER:
SHEET 1 OF 1 SHEETS.	HOLE ANGLE:	
COMMENTS:		

DEPTH.	GRAPHIC LOG.	REMARKS.
0 - 2		Brown/yellow clay
4		1) Ditto 2) Lt. brown siltstone
6		Lt. brown siltst.
8		1) yellow/Lt. brown sandy siltst. 2) yellowish compact sst. 0.25 mm
10		grey sst. compact 0.15 mm No white silty matrix or blk op.
12		Ditto
14		Soft clayey grey sst.
16		Ditto
18		1) grey sst. 25% greyish/greenish matrix suba-subr 0.4- 0.5 mm 2) Carbonaceous siltst.
20		1) soft grey clayey sst. 2) harder (occurs as definite chips) coarse sst. - to 1) in #9
22		hard Lt. grey & white siltst. - conchoidal type fracture
24		Ditto
26		1) Ditto 2) black siltstone 3) hard colour banded siltstone 3) fine grained dolerite

LOCATION: WOODBURY # 13		CO-ORDINATES: 147° 28' 50" E/42° 11'52"S	
DATE: 8.3.81	METHOD:		DIAMETER:
SHEET 1 OF 3 SHEETS.		HOLE ANGLE:	

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
0 - 2		yellow clayey sand
4		Ditto
6		Ditto
8		yellow weathered sst.
10		Ditto
12		Ditto
14		Ditto
16		1) grey sst. 2) siltstone
18		grey sst.
20		Ditto
22		Ditto
24		Ditto
26		Ditto
28		Ditto
30		Ditto - some black clay

DRILLING RECORD

309

LOCATION: WOODBURY # 13	CO-ORDINATES:
DATE: 8.3.81	METHOD:
SHEET 2 OF 3 SHEETS.	DIAMETER:
HOLE ANGLE:	

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
32		grey sst.
34		coaly matl
36		1) siltst. 2) sst.
38		grey sst
40		Ditto
42		Ditto
44		Ditto
46		Ditto
48		Ditto
50		Ditto
52		Ditto
54		Ditto
56		Ditto
58		Ditto
60		Ditto

16
18
20
22
24
26
28
30

DRILLING RECORD

310

LOCATION: WOODBURY # 13	CO-ORDINATES:	
DATE: 8.3.81	METHOD:	DIAMETER:
SHEET 3 OF 3 SHEETS.	HOLE ANGLE:	

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
62		Ditto
64		Ditto
66		Ditto
68		Ditto
70		1) black matl. grey sst.
72		grey sst.
74		sst. & Siltst.
76		Ditto
78		grey sst.
80		Ditto
82		Ditto
84		Ditto
86		Ditto
88		Ditto

LOCATION: WOODBURY # 14		CO-ORDINATES: 147° 28'56"E/42° 11'32"S
DATE: 9.3.81	METHOD:	DIAMETER:
SHEET 1 OF 2 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH.	GRAPHIC LOG.	REMARKS.
0 - 2		Weathered clayey yellow sst. 0.2mm suba-subr. 5% blk op.
4		Ditto - 5 - 10% blk op. brn biolite
6		1) Ditto 2) Ferruginized sst. chips & pebbles
8		Soft black carbonaceous clay - very carbonaceous : weathered coal?
10		1) black carbonaceous matl as above 2) weathered yellow sst. 3) grey siltstone
12		1) soft grey sandy clay 2) coal chips 3) grey sst. c̄ coaly 0.1mm 10% blk op.
14		grey sst. 20% white matrix 10% blk op. 0.2 mm
16		Ditto - but 5% blk op. (slightly lighter in colour)
18		1) grey sst. 10% blk op. 0.4 mm 2) grey v. fine gr. silty sandst.
20		grey sst. 0.25 mm 10% blk op. Q.F. & matrix (white)
22		1) grey sst. 0.25 - 0.3 mm 2) grey sst. 0.5 mm 3) dker grey. No white matrix 0.2 mm
24		grey sst. - 0.25 - 0.3 mm
26		1) grey sst. 0.3 mm 2) traces of grey sandy siltst.
28		1) grey sst. 0.4 mm 2) dk grey carbonaceous siltst.
30		grey sst. as above

313

DRILLING RECORD

LOCATION: WOODBURY # 15		CO-ORDINATES: 147° 19'53"E/42° 11'55"S
DATE: 10.3.81	METHOD:	DIAMETER:
SHEET 1 OF 5 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH.	GRAPHIC LOG.	REMARKS.
0 - 2		Soft weathered yellow sst.
4		Ditto
6		Ditto
8		Ditto
10		Soft grey sst. 20% matrix 15% blk op. - 0.25 mm
12		Ditto
14		1) sst. 0.2 mm 2) minor amounts grey siltst. 3) coaly bits
16		1) sst. 0.2 mm 2) Lt. grey/Lt. brown siltstone 3) coaly bits
18		1) grey/brown clay 2) grey/brown siltst. 3) coal
20		1) soft grey/brown sandy clay 2) brownish grey siltst.
22		sst. 0.25 mm
24		sst. - now occurring as chips 0.3 - 0.4 mm
26		sst. - as above also some softer clayey sst. & grey siltst.
28		sst. 0.4 mm some with carbonaceous lominæ
30		sst. 0.25 mm coaly lominæ as above

314

DRILLING RECORD

LOCATION: WOODBURY # 15		CO-ORDINATES:
DATE: 10.3.81	METHOD:	DIAMETER:
SHEET 2 OF 5 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH.	GRAPHIC LOG.	REMARKS.
16	32	sst. 0.25 mm
	34	soft sst. - greater % matrix 0.25 mm black siltst.
18	36	1) sst. 0.35 mm 2) grey/brown siltst. 3) minor amounts of coaly bits
	38	soft sst. 25% white silty/clay matrix 0.2 - 0.25 mm
20	40	1) sst. L 5% matrix 0.5mm subang 2) traces of brown/grey siltst.
	42	Soft sst. similar to # 19
22	44	1) as above 2) sst. = #20 3) sst. 0.15mm little white matrix .∴ dker grey colour
	46	1) soft clayey sst. 2) sst. 0.35 mm - 0.4 mm
24	48	1) sst. 0.3mm little matrix 2) grey siltst. = carbonaceous bits
	50	1) soft sst. 0.3 mm 2) grey/brown siltst. c̄ plant fragments as above 3) black carbonaceous siltst.
26	52	1) soft sst. 0.3 mm 2) sst. - less matrix, harder 0.4 mm 3) minor amounts of coal.
	54	1) soft sst. 0.25 mm carbonaceous laminae 2) dker grey sst. - No white matrix 0.25 mm - #22
28	56	1) soft sst. 2) minor amounts of coaly bits
	58	1) grey sst. 0.3 mm 2) grey siltst.
30	60	1) grey siltst. 2) grey clayey/siltst. 3) coaly bits

DRILLING RECORD

LOCATION: WOODBURY # 15	CO-ORDINATES:	
DATE: 10.3.81	METHOD:	DIAMETER:
SHEET 3 OF 5 SHEETS.	HOLE ANGLE:	

COMMENTS:

32
34
36
8
0
42
44

DEPTH.	GRAPHIC LOG.	REMARKS.
62		Ditto
64		Ditto
66		1) Lt. grey clay/siltst. 2) grey siltst. 3) black clayey siltst. 4) coaly chips
68		1) grey clayey siltst. (soft) 2) grey siltst. (comes up as chips)
70		Ditto
72		1) grey sandy siltst. - numerous brown biolite - 0.3 mm 2) V. fine grained grey sst. L 0.1mm 3) grey siltst. 4) traces of coaly bits.
74		1) V. fine grained silty sst. 0.1mm and less 2) lesser amounts of grey siltst.
76		1) soft sst. 0.2mm 25% matrix 2) grey siltst. 3) dker grey sst. 0.20 mm - no white matrix
78		1) soft sst. as above 2) grey siltst. 3) black siltst.
80		1) soft sst. 0.2 mm 2) grey siltst.
82		soft sst. 0.25 mm
84		Ditto
86		1) soft st. 2) siltst.
88		1) soft sst. 2) grey siltst. 3) brown siltst.
90		soft sst. 25% matrix 0.25mm

LOCATION: WOODBURY # 15		CO-ORDINATES:	
DATE: 10.3.81	METHOD:		DIAMETER:
SHEET 4 OF 5 SHEETS.		HOLE ANGLE:	

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
92		Ditto
94		Ditto
96		Ditto
98		Ditto
100		1) Ditto 2) grey siltst. 3) brown siltst. 4) Pyrite
102		1) soft sst. 2) grey siltst.
104		1) grey siltst. 2) coal
106		brown/grey siltstone
108		1) brown siltst. 2) grey siltst. 3) coaly bits
110		1) sst. 2) siltst.
112		1) sst. 0.4 mm 2) grey siltst.
114		Ditto
116		1) fine grained sst. 0.1mm 2) grey siltst. 3) calcite
118		1) fine gr. sst. 2) grey siltst. 3) wh/brown siltst.
120		siltst.

46

48

50

52

54

56

58

60

LOCATION: WOODBURY # 16		CO-ORDINATES: 147° 30' 52"E/42° 12'2" S	
DATE: 11.2.81	METHOD:		DIAMETER:
SHEET 1 OF 2 SHEETS.		HOLE ANGLE:	

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
0 - 2		yellow clay & dolerite chips
4		Ditto
6		weathered dolerite
8		Dolerite
10		Ditto
12		Ditto
14		Ditto
16		Ditto
18		Ditto
20		Ditto
22		Ditto
24		Ditto
26		Ditto
28		Ditto
30		Ditto

320

DRILLING RECORD

LOCATION: WOODBURY # 17	CO-ORDINATES:
DATE: 12.3.81	METHOD:
SHEET 1 OF 2 SHEETS.	HOLE ANGLE:

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
0 - 2		yellow clay/sand
4		yellow clay
6		yellow/brown badly weathered dolerite & chips
8		Ditto
10		Ditto
12		Ferriginized dolerite gravel
14		Ditto
16		Dolerite
18		Dolerite
		MOVED 70 METRES AWAY
0 - 2		yellow/brown weathered dolerite & gravelly chips
4		Dolerite
6		Ditto
8		Ditto
10		Ditto

321

DRILLING RECORD

LOCATION: WOODBURY # 17		CO-ORDINATES:	
DATE: 12,3.81	METHOD:		DIAMETER:
SHEET 2 OF 2 SHEETS.		HOLE ANGLE:	

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
12		Dolerite
14		Ditto
16		Ditto
18		Ditto
20		Ditto
22		Ditto
24		Ditto
26		Ditto
28		Ditto
30		Ditto
32		Ditto
34		Ditto
36		Ditto
38		Ditto
40		Ditto

322

940326

LOCATION: Sorell Springs No. 1		COORDINATES: 147° 24' 50" E / 42° 13' 13" S
DATE: 14/2/81		
SHEET 1 of 1 SHEETS		
COMMENTS: Dolerite (All dolerite - dam next to drill site. drilled upper margin of dolerite. In Tin Dish rivulet, sst overlying dolerite).		
DEPTH		REMARKS
0 -		Weathered dolerite rubble
2		
4		ditto
6		ditto
8		ditto
10		ditto
12		fine grained dolerite
14		ditt
16		ditto
18		ditto
20		Dolerite
22		ditto
24		ditto
26		ditto
28		ditto
30		ditto
32- 53M		ditto

DRILLING RECORD

air photo check

LOCATION: SORRELL SPRINGS #2	CO-ORDINATES: 147° 25'26"E/42° 13'28"S	
DATE: 19.2.81	METHOD:	DIAMETER:
SHEET 1 OF 3 SHEETS.	HOLE ANGLE:	
COMMENTS:		

DEPTH.	GRAPHIC LOG.	REMARKS.
0 - 2		yellow loose sand
2 4		yellow grey sand some yellow sst chips
6		Ditto
4 8		grey/brown loose sand
10		1) grey siltst. 2) black coaly siltstone
6 12		grey sst - Q.F. & white silty matrix subong-subr. ave 0.25 mm no mafics
14		1) grey sst - trace mafics ave 0.2m 2) as above but 0.25 mm
8 16		grey sst - 0.25 - 0.3 mm still no mafics
18		grey sst 5% mafics - 0.6mm ave 0.4 mm
10 20		grey sst 5% mafics 0.2 - 0.25 mm
22		grey sst L 5% mafics 0.2mm
12 24		grey sst 5% mafics 0.25 - 0.3 mm
26		1) grey sst as above but 0.25 mm 2) green - dk grey siltstone
14 28		grey sst as above
30		1) grey sst 0.25 - 0.3 mm 2) greenish dk grey siltst.

DRILLING RECORD

324

air photo check

LOCATION: SORRELL SPRINGS #2		CO-ORDINATES: 147° 25'26"E/42° 13'28"S
DATE: 19.2.81	METHOD:	DIAMETER:
SHEET 2 OF 3 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH.	GRAPHIC LOG.	REMARKS.
32		grey sst. - tinge of green very little white silty matrix 0.3 - 0.4 mm
34		Ditto
36		Ditto
38		1) grey/greenish sst. as above 2) grey siltst.
40		sst. as above
42		1) Lt. grey siltst. 2) less amounts of dker grey siltst.
44		1) Lt. grey siltst. 2) grey siltst. 3) sst. 0.2 mm
46		Sample - V. small chips sst. - 0.2 - 0.25 mm
48		Ditto
50		sst 0.3 mm Still c̄ a greenish tinge mainly less amounts of F. trace of mafics
52		1) grey sst - 0.25 mm 2) green/grey sst - greater % of greenish matrix
54		1) similar to 2) above 2) grey siltst.
56		green/grey sst. - 0.25 mm
58		Ditto
60		sst as above 0.2 - 0.25 mm (These sst's have white/orange F., not found in W 12584)

328

(Air photo check)

LOCATION: Bells Lagoon No.1 'A'	CO-ORDINATES: 147° 9' 43" E / 42° 29" S	
DATE: 24/1/81	METHOD: Rotary Mud	DIAMETER:
SHEET 1 OF 2 SHEETS.		HOLE ANGLE:

COMMENTS: Mostly whitish Q ssts.
Marked lithology change after 32M. Refer last samples of hole No.2 Bells Lagoon.

DEPTH.	GRAPHIC LOG.	REMARKS.
0 - 2.0		Unconsolidated yellow sand. Subrounded to rounded Q, odd grains of magnetite. 0.08mm - 0.5mm. Mean approx. 0.2mm. low sphericity.
4.0		As above.
6.0		As above
8.0		As above but more poorly sorted. Max.grain size 0.6mm. Greater majority of grains at 0.2mm. Heavy silt matrix. Some soft cons pebbles of silt/fine sand. Max. 0.25mm.
10.0		Equigranular. Yellow sand. 0.2mm mean size. Subrounded. A slightly higher percentage of silty matrix hence slightly more consolidated than 0-2M. Some magnetite grains.
12.0		As above
14.0		As above
		<u>NOTE: SAMPLE FROM OUTCROP 20 YDS INTO Paddock:</u> Q.sst. fairly open matrix as opposed to sst from 8 to 14M. Higher percent magnetite (up to 0.7mm in length) subrounded. 0.1-0.25mm fairly equigranular. Little matrix. Mean 0.2mm. Sample from 10M further up hill - finer grained 0.1 - 0.2mm. more matrix. Also with magnetite.
16.0		Rock chips & unconsolidated sand as above. Rock = sparkling Q.sst a little iron staining. Subangular-subrounded. Cl.Q 0.1-0.4mm, mean 0.2mm.
18.0		Sandstone & siltstone as above. For sst. siltst. - siliceous grey/green colour on fresh surface. Other surfaces red/brown colour - quite hard.
20.0		Sst and fine sandy siltst. Sst as in 16M. Sandy siltst. - under microscope equimixture of greenish & reddish grains. Q. sand grains 0.05mm - 0.1mm. Some magnetite. silt matrix.
22.0		Sst and sandy siltstone as above. This sample contains about 75% sst.
24.0		White sparkling sst 0.1mm - 0.4mm. Mean 0.2mm. Some Fe staining on individual grains. Similar to 16M.
26.0		Sparkling white Sst. Q grains. Greater proportion of silt matrix than above. 0.1mm - 0.3mm. Mean 0.3mm.
28.0		3 types - dominant one Sst as above but less matrix. 1k brown/grey siltstone with magnetite grains (→0.25mm). Fine grained brown/white sst.

LOCATION: Bells Lagoon No. 1 'A'		CO-ORDINATES:	
DATE: 24/1/81	METHOD: Rotary Mud	DIAMETER:	
SHEET 2 OF 2 SHEETS.		HOLE ANGLE:	
COMMENTS:			

DEPTH.	GRAPHIC LOG.	REMARKS.
28.0 cont'd		Q. (0.1 - 0.25) Mean 0.15mm. Abundant matrix.
30.0		1. V.clean Q.sst subangular-subrounded 0.2mm mean. 2. Fine grained Sst Mean 0.1m with much matrix. Brown/grey colour. 3. Grey v.fine grained sst max. size 0.1mm. Some mag. grain boundaries indistinguishable.
32.00		Bulk sample quite clayey. 1. dirty sst. equigranular subangular-subround Much matrix (40%). 0.08-0.2mm. 2. Dk grey/brown v.fine sst.. Occasional larger Q grains of 0.8mm.
34.0		Dark grey/black rock chips. Magnetic. Subangular Q. grains to 0.2mm. 20% clear Q. 80% black opaque minerals. Similar to last sample Bells Lagoon No.2.
36.0		1. Black rock as above. Q?? Greenish yellow 1mm x 0.4mm with regular angular shape observed. 2. White dirty Q.sst. 0.07mm-0.2mm. Mean 0.1mm. Whitish matrix - no staining.
38.0		1. 75% white sparkling Q.sst. Speckled staining. Subangular-subrounded. dirty. Mean 0.2mm. 2. Pale green/grey sugary sst. No inter pore space as above. Mean 0.1mm. 50% Q, 50% matrix.
40.0		1. Q.sst as above. 2. Another white sst but with greater % matrix. 3. Well cemented sst, small % Q grains to 0.2mm. Fe stained, dk brown in colour.
42.0		Equal amounts of pale greenish grey sst & ferruginized sst. (buckshot gravel or laterized layer?) White sst - high matrix sst, v.fine grained white sst. Highly ferruginized dk brown sst. Complete intergran.infilling.
44.0		Same as 34M. Black/greenish "magnetite" sst. 60% greenish semi-opaque grains (scratched by steel). 40% black opaque grains (mag). 0.1-0.2mm. Grains subangular, magnetic. Densely packed.
HOLE ABANDONED AT 44 METRES. BROKEN HAMMER.		

DRILLING RECORD

330

(Air photo check)

LOCATION: Bells Lagoon No. 1'B'	CO-ORDINATES: 147° 9' 39" E / 42° 24" S	
DATE: 25/1/81	METHOD: Rotary Mud	DIAMETER:
SHEET 1 OF 3 SHEETS.		HOLE ANGLE:

COMMENTS: Whitish Q Ssts.
No greenish-grey sst encountered prior to the "magnetite sst" as found in Bells Lagoon No. 2.

DEPTH.	GRAPHIC LOG.	REMARKS.
0 - 2M.		Yellow unconsolidated sand. Subrounded Q grains. 0.1-0.5mm. Mean 0.25mm.
4.0		Unconsolidated sand. Whiter and finer than above. Siltsize to 0.25mm. Mean 0.2mm. Subrounded Q grains.
6.0		Similar to above but a reddish fine sand.
8.0		Similar to 4.0M, but slightly coarser. Average 0.25mm - 0.2mm. Odd mag. grains.
10.0		Whitish/pale grey unconsolidated fine sand. Max Q.grain size 0.25mm. Ave 0.15mm. Some mag. Greater percentage of v.fine matrix than above.
12.0		As above
14.0		As above
16.0		Clay & sst chips. Sst: sparkling white/speckled ferruginized sst. subangular-subrounded. Porespace infilling of silt matrix 0.05-0.25 mm Ave 0.2mm.
18.0		Clay and sst - as above.
20.0		Sparkling white sst siliceous matrix. Subrounded Q 0.1 - 0.25mm. Ave 0.15mm. 10% matrix. Minor Fe staining of matrix.
22.0		As above
24.0		Bulk sample more clay than above, similar to 16M. 1. White sparkling Q sst. Open interstitial spaces - clean subangular. Ave 0.25mm. 2. Reddish sst & matrix compact. 3. Black sst. nonmagnetic.
26.0		1. Subangular. Dirty sparkling sst, 25% matrix. Some Mag. Ave 0.2mm. 2. Yellow sandy siltstone 10-15% sand to 0.025mm. 3. Pinkish fine sst, 30% matrix. Ave Q 0.1mm.
28.0		1. Open sst, ferruginized Q sst. Yellow. Ave 0.25mm. 2. White sst 20% matrix, 0.2mm. 3. White to pale brown siltstone, individual grains just visible amongst matrix.

331

LOCATION: Bells Lagoon No. 1 'B'	CO-ORDINATES:	
DATE: 25/1/81	METHOD: Rotary Mud	DIAMETER:
SHEET 2 OF 3 SHEETS.	HOLE ANGLE:	

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
30.0		Fairly clayey bulk sample. 1. Whitish sparkling sst. 20% matrix. Subang. Q grains, ave 0.2mm. Some Fe staining in matrix (75% of sample). 2. Siltst - pale. Scratches easily.
32.0		As above - Sst slightly more silt sized matrix.
34.0		Poorly sorted sst - Fe stained. Q grains to 0.25mm. Ave 0.1mm. Hard spec. light brown. Some magnetite. Subang. grains. Compact - no pore space.
36.0		1. Reddish compact sst. Silt & silicified matrix to 0.25mm. Ave 0.15mm. Grain boundaries not clearly defined. 2. White subang. Q sst minor pore space 0.2mm. 3. White sparkling sst, similar to reddish type.
38.0	X < 1.5	Red fine sst, dense subang. Q grains. Fe stained matrix. 0.05-0.25mm, Ave 0.15mm. One e.g. of finer red sst, ave 0.08mm. Some v.fine magnetite 2%?
40.0		Bulk sample = 75% red sst & 25% white/grey sst with a fringe of green. 1. Red sst, dense fine grained sst, ave 0.1mm, occ mag? Cl. greenish Q. Fe stained matrix. 2. White subang. Q sst, ave 0.2mm. Siliceous matrix, does not scratch. Matrix not Fe stained as in other sample. Occ. mag. Also one coarser sample ave 0.25mm.
		NOTE: percussion drilling with copious amounts of groundwater. Flow about 30 gals/min.
42.0		1. Red sst as above but coarser 0.2mm. 2. red siltstone, scratches. 3. Subang. Q sst white/speckled red 0.2mm siliceous infilled matrix. Little silt matrix.
44.0		Angular-subangular Q.sst. Brown/red to 0.5mm. Ave 0.3mm. Q grains coloured brown/smoke.
46.0		1. 75% red siltstone. 2. 25% light grey siltstone. 3. One example of yellow open Q sst 0.1 - 0.3mm.
48.0		1. Lt grey siltstone, scratches. Minor amounts of v.fine mag (50% of bulk sample). Lt grey siltstone has a tinge of green to it. 2. Black siltstone, scratches, magnetic.
50.0		1. Light grey siltstone (50%) similar to above. 2. Black siltstone, similar to above. Xl of pyrite present.
52.0		1. Lt grey siltstone. 60%. 2. Black siltst. magnetic 40%. 3. Sst subround Q 0.2mm Lt.brown/white. reasonably dense. 4. Yellow siltstone.
54.0		Lt grey to dark grey siltstone. Scratches. Both coloured siltstone magnetic.
56.0		Lt grey siltstone, non-magnetic. Scratches. Some v.fine black Xls/minls

LOCATION: Bells Lagoon No.2.	CO-ORDINATES: 147° 20' 47" E / 42° 2' 54" S		
DATE: 20/1/81	METHOD: Rotary Mud	DIAMETER:	
SHEET 1 OF 6 SHEETS.	HOLE ANGLE:		

COMMENTS: This hole mostly grey/green siltstones and sandstones.

DEPTH. metres	GRAPHIC LOG.	REMARKS.
0 - 2.28		Soil
2.28 - 4.57		Yellow clay
4.57 - 6.85		Yellow clay. Pebble of med. grained Q.sst
6.85 - 9.13		Yellow/brown clay. Some grit particles of fine sand
9.13 - 11.41		Yellow/brown clay. Some pellets of black clay. Some fine Q.sst p.chips (0.05 - 0.25 m)
11.41 - 13.69		Yellow/brown clay. Red and Black bonding and white sst chips of fine Q.sst (as above) with fine matrix.
13.69 - 15.97		Sst. - (0.1 mm - 0.25 mm) 0.15 mm fine Q.sst. Minor clay.
15.97 - 18.25		Pale Yellow/grey clay. Minor silt. Silty/fine sst & fine sst. 80% clay.
18.25 - 20.53		Clay. Mahog/brown colour.
20.53 - 22.81		Clay. Pale grey colour. sst grit particles, either one size of 0.25 mm or 0.05 mm. Q.sst. Fine sample with biotite.
22.81 - 25.09		Brown/Mahogany clay.
25.09 - 27.37		Brown/mahogany clay with brown/mahog. siltst with mica & grey/green siltst also micaceous.
27.37 - 29.65		Grey/green silty sst grain size 0.05 mm of larger particles. Few consolidated chip samples, some biotite.
29.65 - 31.93		Grey/green fine sst grain size of Q & F 0.1mm 5% biotite with max. size 0.5mm.
31.93 - 34.21		Similar to above but less biotite
34.21 - 36.49		Similar to second last sample

LOCATION: Bells Lagoon No.2.		CO-ORDINATES:
DATE: 20/1/81	METHOD: Rotary Mud	DIAMETER:
SHEET 2 OF 6 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH.	GRAPHIC LOG.	REMARKS.
38.77		Grey/green siltstone Dark grey/black micaceous siltstone 50/50
41.05		Dark Grey micaceous siltstone.
43.33		Siltstone - Lt. Grey, micaceous (biotite & muscovite)
45.61		Siltstone with some sandy siltstone. Biotite lominge visible. Mostly Lt. grey in colour.
47.89		Siltstone. Light to dark grey.
50.17		Siltstone. Harder than above. grey/green siltstone & black siltstone. Minor light coloured siltstone.
52.45		Siltstone & sst. siltstone - lt.grey. sst - whitish, Q & F fine grained
54.73		sst - fine grained whitish. Some large biotite grains (0.5 mm) grain size (0.025 mm - 0.08 mm)
57.01		Siltstone - grey/green (pale)
59.29		Siltstone - grey/green
61.57		Siltstone - coarse grained, green, little Q.
63.85		Siltstone - grey/green
66.13		Green siltstone & fine green sst (0.1mm)
68.41		Green silt/sst (0.05 - 0.1 mm)
70.69		sst - fine grained (0.05 - 0.1 mm) green
72.97		As above

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DRILLING RECORD

LOCATION: Bells Lagoon No.2.	CO-ORDINATES:	
DATE: 20/1/81	METHOD: Rotary Mud	DIAMETER:
SHEET 3 OF 6 SHEETS.	HOLE ANGLE:	

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
75.25		As above with some green shale.
77.53		sst fine grained, green
79.81		As above
82.09		As above
84.37		sst - fine grained green/grey mostly (80%) Q. Inequigranular subangular low sphericity no biotite 0.08 mm - 0.25 mm ave 0.15mm
86.65		"
88.93		"
91.21		"
93.49		" "
95.77		"
98.05		"
100.33		sst - fine grained, pale green/lt. grey
102.61		Siltstone - pale green/lt. grey
104.89		Lt. grey silt & some fine grained sand
107.17		"
109.45		sst - fine grained, grey-grey/green & siltstone.

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DRILLING RECORD

LOCATION: Bells Lagoon No.2.	CO-ORDINATES:	
DATE: 20/1/81	METHOD: Rotary Mud	DIAMETER:
SHEET 4 OF 6 SHEETS.	HOLE ANGLE:	

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
111.73		sst - fine grained, grey only slightly greenish
114.01		"
116.29		sst - fine grained, green/grey
118.57		sst & siltst, grey green, sst - fine grained
120.85		sst - fine, much more Q. in this sample
123.13		sst - fine, grey/green
125.41		sst - fine, grey/green
127.69		"
129.97		"
132.25		"
134.53		? fine sst. 1st sample of the morning o/night settling.
136.81		Shale - some black shale, grey shale. Lesser amounts of fine sst Q. rich
139.09		sst - fine ave grain size (0.1 - 0.25 mm) mostly Q. low sphericity subangular, pale green/grey
141.37		sst - fine ave grain size 0.1 mm - Q. as above. Colour as above. Some larger grains, biotite (0.3 mm)
143.65		As above, no biotite.
145.93		As No.62 & similar to 62 in that occasional dark opaque grains, some rusty coloured & yellow grains (altered?)

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DRILLING RECORD

LOCATION: Bells Lagoon No.2.		CO-ORDINATES:
DATE: 20/1/81	METHOD: Rotary Mud	DIAMETER:
SHEET 5 OF 6 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH.	GRAPHIC LOG.	REMARKS.
148.21		Fine sst similar to 62 in grain size, biotite colour again pale green/gre.
150.49		As above, no biotite but finer grained. Max size 0.1 mm
152.77		Few solid chips. Ground mass indistinguishable. Individual grains up to 0.25 mm colour as above Some biotite. Silty sst.
155.05		Similar to 66. biotite visible. Similar grain size.
157.33		Fine sst - similar to 68 very little sample collected & few individual chips available.
159.61		Fine sst as above.
161.89		Fine sst. Max size 0.1 mm .No biotite subangular fair sphericity Q. equigranular
164.17		Fine sst as above but not as high sphericity.
166.45		Fine sst - avge size - 0.1 mm grains similar to above. Q. 1 example of dark opaque mineral. pale green/grey colour.
168.73		As above
171.01		Sst and siltstone. Sst fine as above. Shale green colour.
173.29		Very few rock chips. V.fine sst sample all grains <0.1 mm. Q. pale green/grey. Also some green shale.
175.57		V.fine sst samples as above. Grains <0.1 mm. Q. pale green/grey poor chip collection. No shale. Some black opaque minerals.
177.85		Very few rock chips. V.fine sst and shale specimens. Problem with blunt blades about here.
180.13		Problems with bit. Small chips only collected. Appear to be mostly green shale.
182.41		V.fine grained Q. sst. grain size <0.1 mm. pale green. Some slightly coarser samples - white no colour Some with Also pale

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DRILLING RECORD

LOCATION:	Bells Lagoon No. 3	CO-ORDINATES:	147° 21' 18" E / 42° 4' 57" S
DATE:	28/1/81	METHOD:	Rotary Mud
SHEET 1 OF 3 SHEETS.		DIAMETER:	
		HOLE ANGLE:	

COMMENTS: Mostly grey and black siltstones

DEPTH.	GRAPHIC LOG.	REMARKS.
0 -		Yellow/white clayey sand Q. grains to 0.6mm. Ave 0.3mm.
2		Not as unconsolidated like B.L. No.2. Fairly tacky.
4		As above - subrounded Q grains.
6		More of a pronounced soil horizon. Clay/sand horizon. Ave 0.2mm. Finer than above. Colour lt brown - seems to be from Fe, not organic.
8		(Poorly consolidated greenish dirty sst, Bulk sample does consist of
		(individual chips/lumps. 50% silt/clay matrix. 50% Q grains. Q grains
10		(subround, size to 0.5mm. Ave 0.2mm. Some black opaque minis. Close up of
		(hand spec shows speckled white and greenish textural look.
12		Chips more consolidated than above. 1. Yellowish Q Sst subang. to rounded
		2. Black/blue Q sst
		Q. Silt matrix no pore spacing. Size 0.5, Ave 0.5. texture similar to (1)
14		1. Yellowish sst as above. 2. Black siltstone, one eg poorly sorted with
		odd Q grains up to 0.15mm. 3. Black siltstone - Carbonaceous?, a woody
		type texture in an amorphous matrix. Unusual textural feature is almost
		schistose in appearance - slightly shiny. Also some calcareous deposition
16		Grey clayey bulk sample. 1. Grey siltstone, lt. grey colour. Sandy siltst
		Q grains up to 0.05mm. 2. Black siltstone - as above.
18		Grey/dark grey siltstone.
20		As above. One sample showed banding of black material. As above.
22		As above. egs of fine banding and one sample shows an imprint (fossil/ carbonaceous?). Similar to 14M interval.
24		1. As above. Black shiny material up to 2mm in length x 1mm in one sample.
		2. Black carbonaceous? Siltst. 3. Sandy siltst 50% Q grains up to 0.1mm.
26		As above. Grey siltstone and sandy siltstone.
28		Grey siltstone and v. fine sandy siltstone.
30		Grey siltstone. One sample again with shiny material along

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DRILLING RECORD

LOCATION: Bells Lagoon No. 3		CO-ORDINATES:
DATE: 28/1/81	METHOD: Rotary Mud	DIAMETER:
SHEET 2 OF 3 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH.	GRAPHIC LOG.	REMARKS.
32		Grey and dark grey siltstones. Colour banding visible.
34.		1. Grey sandy siltstone. 2. Black siltstone. 3. Grey siltstone.
36		1. Dark grey/black col.banded siltstone. 2. Grey sandy siltstone Q grains to 0.1mm. about 20% Q grains
38		As above - 1.Fine sandy siltstone. 2.Black siltstone. 3. Grey siltstone
40		Lt grey sandy siltstone. Q grains to 0.1mm. Some black banding visible (0.5 to 1mm thick)
42		Lt grey fine sst. Q grains ang.-subang. to 0.2mm. Compose 65% of sample
44		1. Fine sst as above. 2. Lt grey siltstone.
46.		As above, both 1 and 2.
48		1. Grey sandy siltst. 2. Grey siltst. 3. Black siltstone with shiny woody carbonaceous material (1mm x 1mm)
50		1. Grey v.fine sandy siltstone. 2.Grey siltstone. 3.Black siltst. 4. Grey/dark grey banded siltstone.
52		As above
54		Grey coarse siltstone
56		Grey and dark grey siltstone
58		Dark grey siltstone
60		As above
62		1. Lt grey siltstone. 2.Black siltstone

342

DRILLING RECORD

LOCATION: Bells Lagoon No.4		CO-ORDINATES: 147° 21'55" E / 42° 6' 46" S	
DATE: 2/2/81	METHOD:	DIAMETER:	
SHEET 1 OF 2 SHEETS.		HOLE ANGLE:	

COMMENTS:
Dolerite

DEPTH.	GRAPHIC LOG.	REMARKS.
0 -		Clay/sand soil horizon
2		
4		As above
6		Clay/sand and buckshot gravel
8		As above
10		Buckshot gravel
12		As above
14		Fine grained dolerite
16		ditto
18		ditto
20		ditto
22		ditto
24		ditto
26		ditto
28		ditto
30		ditto
32		ditto

LOCATION: Bells Lagoon No.4		CO-ORDINATES:
DATE: 2/2/81	METHOD:	DIAMETER:
SHEET 2 OF 2 SHEETS.		HOLE ANGLE:

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
34		Fine grained dollerite
36		ditto
38		ditto
40		ditto
42		ditto
44		ditto
46		ditto
48		ditto
50		ditto
52		ditto
54		ditto
56		ditto
58		ditto
HOLE FINISHED		

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DRILLING RECORD

LOCATION: Bells Lagoon No.5		CO-ORDINATES: 147° 21' 24" E / 42° 6' 6" S
DATE: 2/2/81	METHOD:	DIAMETER:
SHEET 1 OF 2 SHEETS.		HOLE ANGLE:
COMMENTS: Serpentinite		
DEPTH.	GRAPHIC LOG.	REMARKS.
0 -		50/50 Buckshot gravel and clay.
2		
4		As above
6		75% clayey horizon 25% buckshot gravel
8		Poorly sorted. fairly unconsolidated clayey sst.
10		As above
12		As above
14		Serpentinite? - pale green/blotched dark green. Some black opaque minls. Not a pronounced talcy feel.
16		As above
18		Similar to above, but not as green and slightly more gritty in feel - appears like a weathered version of above.
20		Serpentinite. Not the same talcy feeling as the large hand samples thrown out - pale green/blotched dark green.
22		As above - has a weathered look.
24		As above
26		As above
28		As above
30		Fine grained dolerite - but not magnetic. Some serpentinite type material
32		As above - also grey siltstone

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DRILLING RECORD

LOCATION: Bells Lagoon No. 6	CO-ORDINATES: 147° 21' 25" E/ 42° 5' 55" S	
DATE: 3/2/81	METHOD: Percussion	DIAMETER:
SHEET 1 OF 5 SHEETS.		HOLE ANGLE:

COMMENTS: Mostly grey siltstones and fine grained grey sandstones.
From 32 to 38 meters - very powdery bulk sample.

DEPTH.	GRAPHIC LOG.	REMARKS.
0 - 2.0 M		Brown/grey soil horizon.
4.0		Sandy clay horizon with minor black minerals. Q grains to 0.6mm.
6.0		As above
8.0		Sandy clay. Some calcareous rock chips ? (scratches). Chips of outer surface had a talcy feeling.
10.0		As above. Chips of weathered rock (all clay). X1 type texture ? Visible.
12.0		Weathered limonitic dolerite. Not yet to buckshot gravel.
14.0		As above
16.0		Fine grained dolerite
18.0		Fine grained dolerite
20.0		Bulk sample more blue/grey coloured - fine grained dolerite.
22.0		As above
24.0		1. Fine grained dolerite and 2. blue/grey clay = blue/grey siltstone/shale
26.0		Fine grained dolerite
28.0		1. Fine grained dolerite. 2. Lt grey siltstone
30.0		Grey fine sand/siltstone. Rounded grains Q. Max size 0.07mm, Ave 0.02 - 0.05mm.
32.0		Grey fine grained sst - as above. Some samples slightly coarser.

DRILLING RECORD

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LOCATION: Bells Lagoon No.6	CO-ORDINATES:	
DATE: 3/2/81	METHOD:	DIAMETER:
SHEET 2 OF 5 SHEETS.	HOLE ANGLE:	

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
34.0		Sst grey - dirty clay matrix, feldspar ? Black opaque min's. Max grain size 0.4mm. Ave 0.2mm. Subang - subrounded.
36.0		Grey Sst. Subang. grains to 0.4mm. Ave 0.2mm. Q grains and clay matrix. Some black opaque minls.
38.0		As above. Some layering of black material.
40.0		Fine sst. Subrounded-subang. Clay matrix. Q grains to 0.4mm. Ave 0.25mm. biotite. Black opaque min's.
42.0		As above
44.0		Fine sst as above
46.0		1. grey siltstone. 2. Fine sst as above.
48.0		Grey siltstone and shale as above
50.0		As above
52.0		Fine sst as in 40M. (slightly finer, ave 0.15 to 0.2mm). Black min's still present. Clay matrix
54.0		White/light grey siltstone. More consolidated than siltst samples from above.
56.0		As above
58.0		Very clayey bulk sample. Appears to be contamination of sample? - to lt grey siltstone. (dolerite chips, serp. chips? clay/sst chips)
60.0		Fine grained dolerite
62.0		Fine grained dolerite

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DRILLING RECORD

LOCATION: Bells Lagoon No. 6		CO-ORDINATES:
DATE:	METHOD:	DIAMETER:
SHEET 3 OF 5 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH.	GRAPHIC LOG.	REMARKS.
64.0		1. Fine grained dolerite. 2. White/lt grey siltstone.
66.0		1. Fine grained dolerite. 2. Sandy siltst to v.fine sst. White/lt grey
68.0		Lt grey siltstone and fine sst.
70.0		Whitish Q sst. Fine to 0.4mm. Ave 0.2mm. Dirty - clayey matrix. Subang. - subrounded. Low sphericity. Compact, no interstitial spacing.
72.0		As above
74.0		As above. Some black opaque minls. occurring.
76.0		As above
78.0		1. Compact grey Q Sst. Coarser than above. Subrounded, Ave. 0.25mm. Minor mafic min's, some feldspar. 2. Finer grained e.g's. Ave 0.2mm.
80.0		1. Grey siltstone 2. Fine grained grey Sst. similar to 76M.
82.0		1. Lt. grey siltstone. 2. Q sst, ave 0.2mm. Similar to 78M. 3. Similar to 2, but more mafic min's. Some feld & greenish grain = darker rock.
84.0		Grey siltst.
86.0		1. 75% of bulk sample - grey siltstone. 2. Compact subang Q sst, Ave 0.2mm. biotite.
88.0		Grey siltstone and grey sandy siltstone
90.0		1. 75% grey siltstone 2. fine grained sst, Ave 0.15mm, compact silt/clay matrix.
92.0		Grey siltstone
		Grey siltstone

DRILLING RECORD

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LOCATION: Bells Lagoon No. 6		CO-ORDINATES:
DATE: 4/2/81	METHOD: Percussion	DIAMETER:
SHEET 4 OF 5 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH.	GRAPHIC LOG.	REMARKS.
96.00		Grey siltstone
98.00		1. 75% fine grey sst, compact. Max size 0.4mm. Ave 0.2m. Subround. 2. Grey siltstone.
100.00		Sst and siltstone as above
102.00		Grey sst, compact. Q feldspar matrix, minor black opaque minls. Max size 0.5mm, Ave 0.2mm. Overall coarser than 98M.
104.00		1. Dk grey sst, texture similar to above. More feldspar. 2. grey sst, better sorted than grey sst. Ave still 0.2mm. 3. Black siltst, scratches, magnetic. (similar to that in Bells Lagoon No.2. Strongly magnetic, stronger than dolerite.
106.00		1. Grey siltst. 2. Grey sandstone as in (2) above.
108.00		1. 75% grey siltst. 2. Grey sst as above.
110.00		1. Fine grained sst as above. 2. Grey siltstone. 3. Fine grained dolerite.
112.00		Hopeless sample, too fine grained. Appears to be mostly grey siltstone, but hard drilling.
114.00		Grey siltstone
116.00		Grey siltstone (poor sample - v.small chips)
118.00		As above
120.0		1. Lt grey siltstone, 5% minute black opaque grains. 2. Lt grey/slightly greenish siltstone, more compact - tendency to conchoidal fracture.
122.00		Lt grey siltstone as above. Colour bonding observed in 2 examples.
		1. Grey siltstone as above. 2. Grey/lt brown siltstone. 3. grey/lt brown sandy siltstone - feldspar, grains? visible.

DRILLING RECORD

351

LOCATION: Annandale No.1	CO-ORDINATES: 147° 21' 18.5" E / 42° 7' 13" S	
DATE: 5/2/81	METHOD: Rotary Mud	DIAMETER:
SHEET 1 OF 4 SHEETS.	HOLE ANGLE:	
COMMENTS: Serp/dolerite followed by fairly soft clayey siltstones.		

DEPTH.	GRAPHIC LOG.	REMARKS.
0 - 2		Poor sample (some grey siltstone - Bells Lagoon No.6 contamination?) used mud - appears to be fine limonitic gravel.
4		As above - Only fine gravel, assume soil horizon has disappeared into drilling mud.
6		1. Limonitic gravel/buckshot. 2.Q sst. 3.Weathered dolerite to Tertiary grits and gravels.
8		Chips of siltstone, fine sst, weathered dolerite & cherty material to Tertiary grits and gravels. Also large reef Q grains.
10		As above - with associated white clay.
12		As above - but 80% clay.
14		As above
16		As above
18		As above; 50% grey clay, 50% white clay.
20		Lesser amounts of gritty material than above - white and grey clay.
22		1. Greenish clay. 2. Lesser amounts of serpentinite like chips.
24		Hotchpotch of chips. 1. Buff coloured hard siltstone. 2.Siltstone. 3. Dolerite? 4. Serpentinite. 5. Sst type material.
26		Serpentinite - not a complete talcy feel. Dolerite
28		1. Serpentinite 60%. 2.Dolerite. 3.White/buff coloured siltstone and large xls/grains - similar to Bells Lagoon No.6 at contact.
30		Dolerite. Serpentinite type green, similar to No.13.

LOCATION: Annandale No.1	CO-ORDINATES:	
DATE: 5/2/81	METHOD: Rotary Mud	DIAMETER:
SHEET 2 OF 4 SHEETS.		HOLE ANGLE:

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
32		1. Green serp.type rock. Fairly coarse texture and black opaque minerals (0.5mm) visible. 2. Dolerite.
34		1. Q rich dolerite. 2.Green sst. silty green matrix. Q grains Ave 0.2mm. 3. Green shale. 4. Serp type rock.
36		1. Green serp. - Q grains visible. altered dolerite? - black opaque minls ^{Texture amorphous like. Siltst} 2. Green serp. - Q grains, no black minls. but occas. 0.2mm Q grains
38		1. Green serp/siltst with Q grains up to 2.00mm rounded. 2.Mafic dolerite strongly magnetic. 2. Reef Q chip. 4.Grey/green siltstone.
40		1. Pale green amorphous serp ? with 0.2mm Q grains 2. Mafic dolerite
42		1. Dolerite? has a greater % of black minls c.f. surface sample of dol. 2.Pale green serp.type meth.- has a texture similar to siltst. Has individual Q grains up to 0.5mm.
44		1. Pale green serp? with Q xls to 1.0mm. 2.Green serp. 3.Dolerite type material - a high % of black opaque minls 70%.
46		1. dolerite. 2. Green shale/serp. with a well rounded Q grain to 1mm. 3. Green siltstone with v.fine Q grains etc.
48		1. Dolerite. 2.Finer grained more mafic dolerite? more magnetic than usual. 3.Black siltstone - scratches, 1 e.g. with a layer of Q 0.25mm
50		Dolerite
		(1. Pale green amorphous serp. 2. Fine grained green sst.
52		(3. Grey/brown siltstone.
54		1. Grey/brown siltstone 70%. 2. Chocolate Brown siltstone with woody fragments.
56		As above
58		1. As above - but with abundant woody fragments. 2. White siltstone as in 62M interval. Siltstone now grey in colour.
60		1. As above 2. White siltstone as below
62		1. 80% grey soft siltstone. 2.White siltstone - speckled with black minls. Some yellow blotching as well

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DRILLING RECORD

LOCATION: Annandale No.1		CO-ORDINATES:
DATE: 6/2/81	METHOD:	DIAMETER:
SHEET 3 OF 4 SHEETS.		HOLE ANGLE:
COMMENTS:		
DEPTH.	GRAPHIC LOG.	REMARKS.
64		As above
66		As above - no black minls in white siltstone
68		As above
70		1. grey/slightly greenish siltst. 2. Choc.brown siltstone.
72		1. Grey siltstone. 2. White siltstone. 3. Brown siltstone - very carbonaceous looking (a piece of silicified wood?)
74		Grey siltstone
76		1. 70% grey siltstone. 2. Brown carbonaceous siltstone.
78		1. White siltstone with black minls again. 2. Grey siltstone. 3. Brown siltstone.
80		As above
82		As above, but with 25% white siltstone
84		As above, with 25% white siltstone
86		1. Grey siltstone. 2. More compact grey siltstone. 3. White siltstone as above
88		Hard and soft grey siltstone
90		1. Coaly fragments 2. Grey siltstone
92		Grey clayey siltstone
94		Grey clayey siltstone

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DRILLING RECORD

LOCATION: Verwood No. 1		CO-ORDINATES: 147° 19' 25" E / 42° 2' 28" S
DATE: 7/2/81	METHOD:	DIAMETER:
SHEET 1 OF 4 SHEETS.		HOLE ANGLE:
COMMENTS: Grey siltstones overlain by Tertiary.		
DEPTH.	GRAPHIC LOG.	REMARKS.
0 -		Orange clayey sand - unconsolidated.
2		
4		ditto
6		Yellow/orange clayey sand
8		Grey and yellow clayey sand
10		Grey clayey unconsolidated sand well rounded - rounded grains
12		ditto
14		ditto
16		grey clayey sand - ferruginised in places
18		grey gritty unconsolidated sand.
20		grey clay with grit to small pebble sized Q grains
22		poorly sorted gritty clays (grey to orange) and clayey sands (grey to yellow). More consolidated than above.
24		As above.
26		Unconsolidated grey sand. Rounded Q grains. 0.2 to 1.5mm clays.
28		Grey brown clayey sand.
30		Gritty grey sand
32		Carbonaceous grey unconsolidated sand

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DRILLING RECORD

LOCATION: Verwood No.1		CO-ORDINATES:	
DATE:	METHOD:		DIAMETER:
SHEET 2 OF 4 SHEETS.		HOLE ANGLE:	
COMMENTS:			

DEPTH.	GRAPHIC LOG.	REMARKS.
34		Carbonaceous grey unconsolidated sand. Wood chips
36		As above
38		Grey to dark grey pebbly clay
40		Lt grey siltstone. Yellow clays. Minor black siltstones.
42		Grey and dark grey siltstones - bulk sample fairly clayey.
44		Grey siltstones and sandy siltstones with odd bands of whitish fine sst.
46		ditto
48		ditto
50		ditto
52		ditto
54		ditto
56		ditto
58		ditto
60		ditto
62		ditto
64		ditto

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DRILLING RECORD

LOCATION: Verwood No.1		CO-ORDINATES:	
DATE:	METHOD:	DIAMETER:	
SHEET 3 OF 4 SHEETS.		HOLE ANGLE:	
COMMENTS:			

DEPTH.	GRAPHIC LOG.	REMARKS.
66		Grey siltstones and sandy siltstones with odd bands of whitish fine sst
68		ditto
70		ditto
72		ditto
74		ditto
76		ditto
78		ditto
80		ditto
82		ditto
84		ditto
86		ditto
88		ditto
90		ditto
92		ditto
94		Grey siltstones. Bulk sample much more clayier than above
96		ditto

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DRILLING RECORD

LOCATION: Verwood No.1	CO-ORDINATES:	
DATE:	METHOD:	DIAMETER:
SHEET 4 OF 4 SHEETS.	HOLE ANGLE:	

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
98		Grey siltstones. Bulk sample much more clayier than above.
100		ditto
102		ditto
104		ditto
106		ditto
108		Fine grained grey to dark grey sst to sandy siltstones
110		Fine grained white Q sst.
112		Ditto
114		ditto
116		ditto
118		ditto
120		ditto
122		ditto
124		ditto
126		ditto
128- 144		ditto

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DRILLING RECORD

LOCATION: Kitchener Ridge No.1		CO-ORDINATES: 47° 25' 54" E / 42° 2' 41" S	
DATE: 7/2/81	METHOD: Hammer	DIAMETER: 6 inch	
SHEET 1 OF 2 SHEETS.		HOLE ANGLE:	

COMMENTS: Compact black and grey shales

DEPTH.	GRAPHIC LOG.	REMARKS.
0 -		
4		
6		
8		
10		
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

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DRILLING RECORD

LOCATION: Kitchener Ridge No.2		CO-ORDINATES: 147° 25' 49" E / 42° 2' 50" S	
DATE: 7/2/81	METHOD: Hammer	DIAMETER: 6"	
SHEET 1 OF 3 SHEETS.		HOLE ANGLE:	

COMMENTS:

Top section of whitish fine ssts followed by grey and dark grey siltstones

DEPTH.	GRAPHIC LOG.	REMARKS.
0 - 4		Yellow sandy soil
6		As above
8		Lt grey fine sandstones and siltstones Yellow sandy soil horizon.
10		As above
12		Grey siltstone
14		As above
16		As above
18		Whitish to light grey fine sandstones and siltstones
20		ditto
22		ditto
24		ditto
26		ditto
28		ditto
30		ditto
32		Grey and dark grey siltstones
34		ditto

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DRILLING RECORD

LOCATION: Kitchener Ridge No.2	CO-ORDINATES:	
DATE: 7/2/81	METHOD:	DIAMETER:
SHEET 2 OF 3 SHEETS.		HOLE ANGLE:

COMMENTS:

DEPTH.	GRAPHIC LOG.	REMARKS.
36		Grey and dark grey siltstones
38		ditto
40		Grey and dark grey siltstones. Some sandy bits
42		ditto
44		ditto
46		ditto
48		ditto
50		ditto
52		ditto
54		ditto
56		ditto
58		ditto
60		ditto
62		ditto
64		ditto
66		ditto

