

REPORT TC14-01
LAUNCESTON.

THIESS COAL SYSTEM
GEOLOGICAL LOG REPORT

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ATP EL2080 TENEMENT 2080
LAUNCESTON

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

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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

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				C1502	56.00	3.25	SILT	Clayey, brown; LIGNITIC INTERBEDS
				C1502	60.00	4.00	SILT and CLAY	Interbedded 50:50. SILT: clayey, light grey - brown; CLAY: silty, light grey - brown; LIGNITIC BANDS ABUNDANT WOODY FRAGMENTS. RARE PEBBLES
				C1504	62.00	2.00	CLAY	
				C1505	64.00	2.00	CLAY	
				R1506	66.00	2.00	CLAY	
					70.00	4.00	CLAY	
					70.50	0.50	CLAY	Blue - grey, soft; FEW ORGANIC INCLUSIONS AND WOODY FRAGMENTS
					71.20	0.70	LIGNITE	Black - brown, fissile.
					72.10	0.90	SILT	Clayey, sandy; LIGNITIC LAMINAE AND OCCASIONAL WOOD FRAGMENTS
					72.23	0.13	LIGNITE	Clayey, brown; FEW SILT INCLUSIONS
					73.35	1.12	SILT	Clayey, grey; ABUNDANT WOOD FRAGMENTS AND THIN LIGNITIC LAMELLAE
				C1507	73.50	0.15	OIL SHALE	Ligneous, brown - black, fissile; CLAYEY LAMINAE AND SANDY INCLUSIONS
				C1507	75.30	1.80	CLAY	Silty, blue - grey; OCCASIONAL LIGNITIC FRAGMENTS
				C1507	75.80	0.50	SILT	Clayey, brown - grey; NUMEROUS WOODY INCLUSIONS
				C1507	76.24	0.44	SILT	Clayey, sandy, fine grained; NUMEROUS THIN BLACK WOODY LAMELLAE
				C1507	76.60	0.36	CLAY	Silty, blue - grey; FEW ORGANIC FRAGMENTS

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				C1507	76.70	0.10	SILT	High strength; (SIDERITIC?)
				C1507	77.00	0.30	CLAY	Silty, blue - grey; FEW ORGANIC FRAGMENTS
				C1507	86.00	9.00	SILT and CLAY	Interbedded 50:50. SILT: clayey, light grey - brown, very soft; CLAY: silty, light grey - brown, very soft; LIGNITIC BANDS WOODY FRAGMENTS ABUNDANT. RARE PEBBLES
				C1508	89.00	3.00	CLAY	
					89.35	0.35	CLAY	Brown - grey; DISSEMINATED WOOD PARTICLES. OCCASIONAL LIGNITIC LAMELLAE. RARE PEBBLES
					90.55	1.20	SILT	Clayey, burrows; MINOR BROWN SILT CLASTS
					91.45	0.90	SILT	Light grey, very soft; FINELY SANDY AT BASE
					91.55	0.10	SILT	(SIDERITIC?)
					92.20	0.65	SILT	Sandy, light grey, very soft.
					92.48	0.28	SILT	Clayey, light grey.
					92.89	0.41	CLAY	Silty, light grey.
					92.97	0.08	SILT	High strength; (SIDERITIC?)
					95.00	2.03	CLAY	Siliceous, light grey, very soft.
				C1509	95.30	0.30	CLAY	
				C1509	95.95	0.65	CLAY	Siliceous, light grey; RARE WOODY FRAGMENTS
				C1509	96.10	0.15	CLAY	Brown - grey.
				C1509	96.27	0.17	LIGNITE	Fissile.

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

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					112.00	10.54	SILT and CLAY	Interbedded 50:50. SILT: grey - brown; CLAY: grey - brown; MINOR LIGNITIC MATERIAL

CORE RUNS 50.0-53.1 REC 3.1M (100%)

53.1-56.0 REC 0.0M (0%)

70.0-73.0 REC 3.0M (100%)

73.0-76.0 REC 3.0M (100%)

76.0-77.0 REC 0.8M (80%)

86.0-89.0 REC 0.75M (25%)

89.0-92.1 REC 3.1M (100%)

92.1-95.2 REC 3.1M (100%)

95.2-98.3 REC 3.1M (100%)

98.3-101.46 REC 3.16M (100%)

AAR BOREHOLE 25 IS NOW NUMBERED C0056

END OF BORE AT 112.00 m

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