

REPORT TC14-01
LAUNCESTON.

THIESS COAL SYSTEM
GEOLOGICAL LOG REPORT

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ATP EL2080 TENEMENT 2080
LAUNCESTON

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Easting: 494160.000
Northing: 5413200.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 165.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 72.00
Drilling Commenced: 06/10/81
Drilling Completed: 07/10/81
Inclination:
Azimuth:
Standing Water Level: 1.2

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

County:
Parish:
Portion:

Plug Depths:
Hole Diameter: 120
Core Diameter:
Cased Depths: 3.0
Core Barrel:

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Drill Bits: Blades
Rollers

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.80	0.80	SILT	Sandy, medium to dark brown, soft, low plasticity (silt).
					1.50	0.70	CLAY	Medium to dark brown - orange, soft, high plasticity (clay); WITH FINE GRAVELLY BASALT INCLUSIONS
					2.50	1.00	CLAY	Mottled buff - orange, firm, high plasticity (clay); WITH FINE GRAVELLY BASALT INCLUSIONS *
								CLAY BALLING AT 2.0 METRES
					2.80	0.30	CLAY	Mottled grey - buff, soft, high plasticity (clay); "PIPE-CLAY", READILY USED IN CERAMIC *
								WORK-BAKED IN SUN AROUND RODS AND ROLLER BIT *
					3.40	0.60	CLAY	Light grey, soft, high plasticity (clay).
					4.85	1.45	CLAY	Mottled grey - yellow, firm, high plasticity (clay); Additional features include: red; POSSIBLE WEATHERING SURFACE, CONTAINING *
								WEATHERED BASALT AT BASE
					5.10	0.25	CLAY	Sandy, mottled yellow - grey, weathered, firm, low plasticity (clay).
					5.80	0.70	CLAY	Mottled grey - yellow, firm, low plasticity (clay); Additional features include: pink.
					7.00	1.20	SAND	Clayey, silty, light to medium yellow, medium dense, non-plastic, fine grained, fining upwards; Additional features include: quartzose.
					7.50	0.50	CLAY	Sandy, quartzose, mottled grey - yellow, soft, low plasticity (clay); Bands include: CLAY, carbonaceous, sandy, medium to dark brown, soft, low plasticity (clay); Additional features include: quartzose.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					8.60	1.10	CLAY	Sandy, quartzose, mottled grey - yellow, soft, low plasticity (clay), fining upwards; Bands include: CLAY, carbonaceous, sandy, medium to dark brown, soft, low plasticity (clay); Additional features include: quartzose.
					9.60	1.00	SAND	Clayey, quartzose, light to medium yellow, medium dense, non-plastic, fine grained, fining upwards.
					10.00	0.40	CLAY	Sandy, quartzose, mottled grey - yellow, soft, low plasticity (clay).
					13.70	3.70	SAND	Quartzose, light to medium grey - brown, medium dense, non-plastic, fine grained, common woody fragments; Bands include: CLAY, carbonaceous, medium to dark brown, soft, low plasticity (organic); Bands include: CLAY, sandy, light to medium grey, soft, low plasticity (clay); WOOD FRAGMENT-RICH BANDS OCCUR WITH * CYCLICITY THROUGHOUT UNIT
					14.75	1.05	SAND	Ligneous, woody textured, medium to dark brown - grey, medium dense, non-plastic, very fine grained; Additional features include: peaty, fine grained.
					15.60	0.85	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic); LOST CIRCULATION BETWEEN 15.0 AND 15.8 * METRES-MIXED SUPERGEL
					16.00	0.40	LIGNITE	Woody textured, dark black - brown, firm, friable, fibrous.
					16.65	0.65	INFERIOR LIGNITE and CLAY	Interbedded 80:20. INFERIOR LIGNITE: woody textured, peaty, dark brown - black, firm, friable, fibrous; CLAY: carbonaceous, light to medium grey - brown, soft, low plasticity (clay); MAY CONTAIN SAND-IE: SANDY INFERIOR * LIGNITE
					19.95	3.30	CLAY	Carbonaceous, sandy, light to medium grey - brown, soft, low plasticity (clay), common woody fragments.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					20.40	0.45	INFERIOR LIGNITE	Woody textured, peaty, dark brown - black, firm, friable.
					23.10	2.70	SAND	Quartzose, silty, light to medium grey - brown, medium dense, non-plastic, very fine grained, common woody fragments; CIRCULATION POOR BETWEEN 21.0 AND 23.0 * METRES, WOOD FRAGMENTS ONLY SAMPLE RETURN, RUNNING SANDS, HOLE CAVING *
					23.60	0.50	INFERIOR LIGNITE	Sandy, woody textured, medium to dark brown, firm, friable.
					24.90	1.30	SAND	Woody textured, light to medium grey - brown, medium dense, non-plastic.
					29.30	4.40	SAND	Quartzose, clayey, light to medium grey, medium dense, non-plastic; RUNNING SANDS, HOLE CAVING
					29.90	0.60	LIGNITE	Woody textured, dark black - brown, firm, friable.
					30.10	0.20	INFERIOR LIGNITE	Woody textured, dark brown - black, firm, friable.
					30.80	0.70	LIGNITE	Woody textured, dark black - brown, firm, friable.
					31.20	0.40	INFERIOR LIGNITE	Woody textured, dark brown - black, firm, friable.
					31.70	0.50	LIGNITE	Woody textured, dark black - brown, firm, friable.
					33.00	1.30	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable.
					34.55	1.55	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay); Bands include: LIGNITE, woody textured, medium to dark brown - black, firm, friable.
					34.95	0.40	LIGNITE	Dark black - brown, firm, friable.
					36.00	1.05	CLAY and LIGNITE	Interbedded 70:30. CLAY: carbonaceous, medium to dark brown - grey, soft, high plasticity (clay); LIGNITE: woody textured, dark black - brown, low strength, brittle.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					40.50	4.50	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments; Bands include: LIGNITE, woody textured, dark black - brown, low strength, brittle.
					45.00	4.50	SAND	Quartzose, woody textured, light grey, medium dense, non-plastic, fine and medium grained, abundant woody fragments.
					52.00	7.00	SAND	Quartzose, clayey, light orange - yellow, medium dense, non-plastic, fine and medium grained; LITHOLOGIES LOGGED BETWEEN 40.5 AND 45.0 * METRES ARE PROBABLY CONTAMINATION FROM ABOVE. MOST LIKELY LITHOLOGY IS A CARBONACEOUS CLAY. *
					54.60	2.60	CLAY and PEAT	Interbedded 60:40. CLAY: carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments; PEAT; PEAT AS WRITTEN REFERS TO BRIGHT BANDED * COALLY WOODY FRAGMENTS
					55.20	0.60	PEAT and CLAY and SAND	Interbedded 60:20:20. PEAT; CLAY: carbonaceous, medium to dark brown - grey, soft, high plasticity (clay); SAND: quartzose, medium dense, non-plastic; PEAT REFERS TO BRIGHT BANDED COALLY * WOODY FRAGMENTS-SIMILAR OCCURRENCE IN EL-707 YUMALI OF BRIGHT BANDED COAL WITH LIGNITE * 52.0 - 56.2 METRES PROBABLY BANDED LIGNITE *
					62.00	6.80	SAND	Quartzose, medium dense, non-plastic, fine and medium grained, common woody fragments; BREAK-OUT AT 63.0 M 5/10/81

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					64.80	2.80	CLAY	Light to medium grey, firm, high plasticity (clay), occasional woody fragments; LOW STRENGTH CLAY; CRUMBLES READILY
					65.80	1.00	CLAY	Kaolinitic, light to medium grey, stiff, high plasticity (clay), common woody fragments; WHITE KAOLINITIC BLEBS COMMON, DISPERSIVE, CIRCULATION POOR *
					70.50	4.70	CLAY	Kaolinitic, light to medium grey, stiff, high plasticity (clay).
					71.30	0.80	LIGNITE	Woody textured, medium to dark black - brown, low strength, brittle; BRIGHT BANDED FRAGMENTS COMMON
					72.00	0.70	CLAY	Kaolinitic, light to medium grey, firm, high plasticity (clay), subfissile; LOW STRENGTH CLAY, CRUMBLES READILY * RAN OUT OF RODS AT TOTAL DEPTH

 END OF BORE AT 72.00 m

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