

REPORT TC14-01
LAUNCESTON.

THIESS COAL SYSTEM
GEOLOGICAL LOG REPORT

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ATP EL2080 TENEMENT 2080
LAUNCESTON

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Easting: 495950.000	Logging Organisation: CSR Exploration and Evaluation Group
Northing: 5408890.000	Logged By: ELLIS
Grid Type: Australian Mapping Grid	Drilling Contractor: H. J. Stacpoole
Accuracy: Approximate	Geophysical Logging: Murdoch Geophysics
Cr1: 170.00	
Datum: Approximate Level - Not Surveyed	County:
Sheet Reference:	Parish:
Sheet Index:	Portion:
Total Depth: 95.00	
Drilling Commenced: 18/10/81	Plug Depths:
Drilling Completed: 21/10/81	Hole Diameter: 150
Inclination:	Core Diameter:
Azimuth:	Cased Depths:
Standing Water Level: 2.7	Core Barrel:
Available Data: Gamma Logs	Drill Bits: Blades
Density Logs	
Resistivity Logs	
Caliper Logs	

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.50	0.50	SAND	Silty, clayey, medium to dark brown, weathered, medium dense, non-plastic.
					1.50	1.00	CLAY	Light to medium brown - khaki, firm, high plasticity (clay).
					4.60	3.10	CLAY	Silty, mottled white - yellow, firm, low plasticity (clay), fining upwards; WITH SOME FINE SAND
					6.00	1.40	CLAY	Silty, light white - grey, firm, low plasticity (clay); WITH SOME FINE SAND IB50 * CLAY: silty, sandy, light to medium yellow, firm, low plasticity (clay), very fine grained; Bands include: SAND, silty, clayey, light to medium yellow, medium dense, non-plastic, very fine grained.
					8.00	2.00	GRAVEL	Sandy, clayey, light to medium brown, medium dense, non-plastic, fining upwards, rare ligneous fragments; FINE GRAVEL TO COARSE SAND, ANGULAR *
							CLASTS	
					9.20	1.20	CLAY	Light to medium yellow - buff, firm, low plasticity (clay).
					9.70	0.50	CLAY	Gravelly, light to medium yellow - buff, firm, low plasticity (clay); CLAY AFTER DOLERITE, COARSE ANGULAR *
							DOLERITE GRAVEL CLASTS	
					11.15	1.45	CLAY	Medium to dark brown - grey, firm, high plasticity (clay); GRADES TO LIGHT BROWN-GREY AT BASE
					11.70	0.55	CLAY	Light to medium brown, firm, high plasticity (clay).

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					15.50	3.80	CLAY	Carbonaceous, light to medium brown, firm, high plasticity (clay), common woody fragments; Additional features include: common ligneous fragments; Bands include: SIDERITE, 00.20 m thick, base at 0014.10m, light to medium brown, low strength, brittle.
					16.80	1.30	LIGNEOUS CLAY	Woody textured, firm.
					17.10	0.30	CLAY	Carbonaceous, medium to dark brown, firm, high plasticity (clay), common ligneous fragments; Additional features include: common woody fragments.
					17.80	0.70	LIGNEOUS CLAY	Woody textured, medium to dark brown, firm.
					19.60	1.80	CLAY and CLAY	Interbedded 50:50. CLAY: carbonaceous, medium to dark brown, firm, high plasticity (clay), common ligneous fragments; CLAY: carbonaceous, light to medium brown - grey, firm, high plasticity (clay), common ligneous fragments.
					21.20	1.60	CLAY	Carbonaceous, light to medium brown - grey, firm, high plasticity (clay), common woody fragments; Bands include: CLAY, carbonaceous, medium to dark brown, firm, high plasticity (clay), common woody fragments; Bands include: CLAY, light grey - brown, firm, high plasticity (clay), common woody fragments.
					21.70	0.50	INFERIOR LIGNITE	Clayey, peaty, medium to dark black - brown, low strength, brittle; Additional features include: woody textured.
					22.90	1.20	LIGNEOUS CLAY	Medium to dark brown, firm; Bands include: CLAY, carbonaceous, light to medium brown, firm, high plasticity (clay).
					23.60	0.70	CLAY	Bentonitic, light to medium grey, firm, high plasticity (clay).
					24.50	0.90	CLAY	Carbonaceous, woody textured, light to medium brown, firm, high plasticity (clay), abundant woody fragments;
<p>LOST CIRCULATION DUE TO CLAY BALLING *</p> <p>BETWEEN 22.5 TO 24 METRES</p>								

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					29.10	4.60	CLAY	Bentonitic, light to medium grey, firm, high plasticity (clay); Bands include: SIDERITE, 00.30 m thick, base at 0027.40m, light to medium brown, high strength, brittle.
					30.20	1.10	CLAY	Silty, bentonitic, light to medium grey, soft, low plasticity (clay); EMPTIED MUD PIT AT 31 METRES, ADDED *
					34.45	4.25	CLAY	SALT TO FLOCCULATE CLAYS Silty, bentonitic, light to medium grey, soft, low plasticity (clay), fining upwards; Bands include: CLAY, light to medium brown - grey, firm, low plasticity (clay).
					36.40	1.95	CLAY and CLAY	Interbedded 60:40. CLAY: silty, bentonitic, light to medium grey, soft, low plasticity (clay); CLAY: light to medium brown - grey, soft, low plasticity (clay); EMPTIED MUD PIT AT 35 METRES
					36.60	0.20	CLAY	Medium to dark khaki - brown, firm, high plasticity (clay); Bands include: CLAY, silty, bentonitic, light to medium grey, soft, low plasticity (clay).
					39.30	2.70	SAND	Clayey, woody textured, medium to dark black - brown, medium dense, non-plastic, fibrous; Additional features include: peaty.
					41.00	1.70	CLAY	Carbonaceous, medium to dark brown, soft, low plasticity (clay), coarsening upwards, abundant woody fragments.
					41.80	0.80	CLAY	Carbonaceous, medium to dark brown, soft, low plasticity (clay), abundant woody fragments.
					42.80	1.00	SILT	Clayey, carbonaceous, medium to dark brown, soft.
					43.80	1.00	SILT	Clayey, carbonaceous, medium to dark brown, soft, coarsening upwards.
					45.80	2.00	CLAY	Carbonaceous, light to medium brown, soft, high plasticity (clay), coarsening upwards, abundant woody fragments.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					47.40	1.60	SAND	Silty, clayey, soft.
					51.50	4.10	CLAY	Bentonitic, light to medium grey - brown, very soft, low plasticity (clay), fining upwards, occasional woody fragments; CHANGED MUD AT 48 METRES
					56.50	5.00	CLAY	Bentonitic, light to medium grey - white, soft, low plasticity (clay).
					57.10	0.60	SIDERITE	Light brown - cream, high strength, tough.
					59.20	2.10	CLAY	Carbonaceous, medium to dark brown, very soft, low plasticity (clay), common woody fragments; Bands include: CLAY, light to medium brown - grey, very soft, low plasticity (clay), common woody fragments.
					60.40	1.20	SAND	Silty, clayey, dark black - brown, soft, non-plastic, abundant woody fragments; Additional features include: woody textured, peaty.
					61.30	0.90	SAND	Clayey, woody textured, medium to dark black - brown, soft, non-plastic, common woody fragments.
					62.30	1.00	SAND	Silty, clayey, dark black - brown, soft, non-plastic, abundant woody fragments; Additional features include: woody textured, peaty.
					63.30	1.00	SAND	Clayey, woody textured, medium to dark black - brown, soft, non-plastic, common woody fragments; CHANGED MUD AT 63 METRES
					64.80	1.50	SAND	Silty, clayey, dark black - brown, soft, non-plastic, fibrous, abundant woody fragments; Additional features include: woody textured, peaty.
					68.40	3.60	SAND	Clayey, woody textured, medium to dark black - brown, soft, non-plastic, common woody fragments.
					70.80	2.40	SAND	Silty, clayey, medium to dark black - brown, soft, non-plastic, fibrous, abundant woody fragments; Additional features include: woody textured, peaty.

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