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REPORT TC14-01
LAUNCESTON.

THIESS COAL SYSTEM
GEOLOGICAL LOG REPORT

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ATP EL2080 TENEMENT 2080
LAUNCESTON

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Easting: 494590.000
Northing: 5409370.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Crl: 150.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 53.60
Drilling Commenced: 13/10/81
Drilling Completed: 14/10/81
Inclination:
Azimuth:
Standing Water Level: 1.4

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: 150
Core Diameter:
Cased Depths:
Core Barrel:

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper 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
					0.30	0.30	SAND	Silty, clayey, light to medium brown, weathered, medium dense, non-plastic, fine and medium grained.
					1.50	1.20	CLAY	Light to medium brown - yellow, weathered, firm, high plasticity (clay); DERIVED FROM BASALT, CONTAINS COARSE * SAND-FINE GRAVEL BASALT FRAGMENTS
					1.80	0.30	CLAY	Mottled red - yellow, weathered, firm, high plasticity (clay), gradational base; Additional features include: grey.
					3.20	1.40	CLAY	Mottled grey - yellow, firm, high plasticity (clay); Additional features include: red.
					4.00	0.80	CLAY	Light brown - grey, firm, high plasticity (clay); LENSES OF LIGNEDUS CLAY
					5.50	1.50	CLAY	Mottled brown - grey, firm, high plasticity (clay); Additional features include: khaki.
					5.90	0.40	CLAY	Medium to dark brown, firm, high plasticity (clay).
					9.00	3.10	CLAY	Light grey - brown, firm, high plasticity (clay).
					11.60	2.60	CLAY	Light grey, firm, high plasticity (clay).
					12.15	0.55	CLAY	Sandy, light grey, firm, high plasticity (clay).
					12.70	0.55	SIDERITE	Sandy, light to medium brown, low strength, brittle; Bands include: SIDERITE, light to medium brown, high strength, tough.
					13.70	1.00	SAND	Gravelly, light brown, medium dense, non-plastic, fine and medium grained.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					18.00	4.30	CLAY	Light grey, soft, low plasticity (clay); CIRCULATION POOR FROM 9 METRES * DUE TO CLAY BALLING-PRESSURIZING FORMATIONS, WATER PUMPING FROM GROUND 7 M FROM RIC. USED 1200 GALLONS WATER TO 18 METRES. *
					23.30	5.30	CLAY	Light to medium grey - brown, soft, high plasticity (clay); Bands include: SIDERITE, 00.05 m thick, base at 0018.65m, light to medium brown, low strength, brittle; LOST CIRCULATION DUE TO CLAY-BALI * NO. USED 1200 GALLONS BETWEEN 18 AND 22 METRES. ADDED SALT. *
					24.00	0.70	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
					24.50	0.50	INFERIOR LIGNITE	Clayey, medium to dark black - brown, firm, friable; Bands include: LIGNITE, medium to dark black - brown, firm, friable.
					32.00	7.50	CLAY	Light to medium grey, soft, high plasticity (clay), common ligneous fragments; Additional features include: common woody fragments; Bands include: CLAY, carbonaceous, light to medium brown - grey, soft, high plasticity (clay), common ligneous fragments; Additional features include: common woody fragments.
					36.00	4.00	CLAY	Carbonaceous, light to medium brown - grey, soft, high plasticity (clay), common ligneous wisps.
					42.00	6.00	CLAY	Light to medium grey, soft, low plasticity (clay); MONTMORILLONITE/BENTONITE CLAY * LIGNEOUS CLAY LENSES AND WISPS

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					44.00	2.00	CLAY	Light to medium grey, soft, low plasticity (clay), common ligneous wisps; LIGNEOUS FRAGMENTS FIRM FRIABLE. *
					47.00	3.00	CLAY	POSSIBLY A LIGNEOUS HORIZON. SAMPLE RETURN POOR, CIRCULATING MEDIUM TOO THICK AND SAMPLE IS RECIRCULATED THROUGH SYSTEM. CHANGE WATER, ADD 1/4 BUCKET OF SALT. *
					53.60	6.60	CLAY	Light to medium grey, soft, low plasticity (clay). CLAYS DISPERSING IN HOLE THICKENIN * G MUD EXCESSIVELY. HARD ROCK INTER SECTED AT TOTAL DEPTH. SUSPECT DOLERITE. NO SAMPLE RETURNED. DRILL RIG MOVED OFF SITE DUE TO EXTREMELY WET AND SOFTENING GROUND CONDITIONS. *

 END OF BORE AT 53.60 m

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