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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: 5410920.000
Northing: 494140.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Cr1: 146.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 87.00
Drilling Commenced: 15/10/81
Drilling Completed: 17/10/81
Inclination:
Azimuth:
Standing Water Level: 2.7

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
GA					0.30	0.30	SAND	Clayey, quartzose, medium to dark brown, weathered, medium dense, non-plastic.
GA					2.00	1.70	CLAY	Sandy, silty, medium to dark yellow - orange, weathered, firm, low plasticity (clay); WITH SOME GRAVEL
GA					2.80	0.80	CLAY	Sandy, gravelly, medium to dark red - orange, weathered, firm, low plasticity (clay).
GA					4.50	1.70	SAND	Gravelly, clayey, medium to dark red - orange, medium dense, non-plastic; IRONSTONE AND BASALT TALUS IN SAND * AND GRAVEL, COARSE SAND TO FINE GRAVEL
TE					6.20	1.70	CLAY	Mottled grey - pink, firm, high plasticity (clay); Bands include: buff.
TE					7.00	0.80	CLAY	Sandy, light to medium brown - yellow, firm, friable, common ligneous wisps; Bands include: CLAY, light to medium grey - brown, firm, high plasticity (clay), common woody fragments.
TE					8.15	1.15	CLAY	Carbonaceous, light to medium brown - grey, firm, high plasticity (clay), common ligneous wisps; Additional features include: common woody fragments.
TE					9.90	1.75	LIGNITE	Woody textured, peaty, medium to dark black - brown, firm, friable, abundant woody fragments.
TE					11.80	1.90	CLAY	Carbonaceous, light to medium brown - grey, soft, high plasticity (clay), common ligneous wisps; Additional features include: common woody fragments.
TE					12.30	0.50	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
TE					13.30	1.00	CLAY	Carbonaceous, light to medium brown - grey, soft, high plasticity (clay), common woody fragments; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
					14.20	0.90	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					14.80	0.60	CLAY	Carbonaceous, light to medium brown - grey, soft, high plasticity (clay).
TE					17.00	2.20	INFERIOR LIGNITE	Dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic); Bands include: CLAY, carbonaceous, light to medium brown - grey, soft, high plasticity (clay).
TE					17.50	0.50	LIGNEOUS CLAY	Medium to dark brown - grey, soft, high plasticity (organic); Bands include: INFERIOR LIGNITE, medium to dark black - brown, firm, friable.
TE					19.30	1.80	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay).
TE					23.70	4.40	LIGNEDUS CLAY	Medium to dark brown, firm, high plasticity (organic), common ligneous wisps; Bands include: CLAY, carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments; Bands include: INFERIOR LIGNITE, medium to dark brown, firm, friable.
TE					33.50	9.80	CLAY	Carbonaceous, medium to dark brown, soft, high plasticity (clay), common ligneous wisps; Additional features include: common woody fragments.
TE					40.00	6.50	CLAY	Light brown, soft, high plasticity (clay).
TE					46.20	6.20	CLAY	Sandy, quartzose, light grey - white, soft, low plasticity (clay); Bands include: SIDERITE, 00.10 m thick, base at 0044.20m, light brown, high strength, tough; Bands include: SIDERITE, 00.20 m thick, base at 0044.70m, light brown, low strength, brittle;
								BIT BLOCKED AT 45.0 METRES, CLAYS ARE *
								DISPERSIVE CAUSING CIRCULATING FLUID TO BECOME EXCESSIVELY THICK. MUD PIT * EMPTIED ADD WATER, SALT, CAUSTIC SODA *
TE					47.60	1.40	LIGNEDUS CLAY	Medium to dark brown, soft, high plasticity (organic); Bands include: LIGNITE, dark brown - black, firm, friable; Bands include: SIDERITE, 00.30 m thick, base at 0046.60m, light 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
TE					49.90	2.30	INFERIOR LIGNITE	Woody textured, medium to dark brown - black, firm, friable, subfissile; Bands include: LIGNITE, woody textured, medium to dark brown - black, firm, friable.
TE					50.60	0.70	CLAY	Carbonaceous, silty, light grey - white, soft, low plasticity (clay).
TE					52.55	1.95	INFERIOR LIGNITE	Clayey, woody textured, medium to dark black - brown, firm, friable; Bands include: LIGNEDOUS CLAY, medium to dark brown, soft, low plasticity (organic).
TE					65.40	12.85	CLAY	Light white - grey, soft, low plasticity (clay).
TE					67.20	1.80	INFERIOR LIGNITE	Medium to dark black - brown, firm, friable; Bands include: LIGNITE, medium to dark black - brown, firm, friable; Bands include: LIGNEDOUS CLAY, medium to dark brown, soft, low plasticity (organic); TRIPPED OUT OF HOLE AT 66.0 METRES 16/10/81
TE					68.50	1.30	CLAY	Carbonaceous, light to medium brown, soft, low plasticity (clay).
TE					70.30	1.80	LIGNEDOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
TE					71.15	0.85	CLAY	Carbonaceous, light to medium brown, soft, low plasticity (clay).
TE					73.70	0.45	INFERIOR LIGNITE	Clayey, medium to dark black - brown, firm, friable; Bands include: CLAY, carbonaceous, light to medium brown, soft, low plasticity (clay); Bands include: LIGNEDOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					74.20	0.50	CLAY	Carbonaceous, light to medium brown, soft, low plasticity (clay).
TE					75.00	0.80	LIGNEDOUS CLAY	Medium to dark brown, soft, low plasticity (organic).
TE					75.90	0.90	CLAY	Carbonaceous, medium to dark brown - grey, soft, 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
TE					77.40	1.50	LIGNEOUS CLAY	Medium to dark brown, soft, low plasticity (organic).
TE					78.90	1.50	LIGNEOUS CLAY	Medium to dark brown, soft, low plasticity (organic); Bands include: CLAY, carbonaceous, light to medium brown - grey, soft, high plasticity (clay), common woody fragments; Bands include: INFERIOR LIGNITE, clayey, medium to dark brown, soft, low plasticity (organic).
TE					81.00	2.10	INFERIOR LIGNITE	Clayey, woody textured, medium to dark black - brown, firm, friable, common woody fragments; Additional features include: peaty.
TE					87.00	6.00	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay); Bands include: CLAY, carbonaceous, medium to dark brown - grey, firm, high plasticity (clay).

 END OF BORE AT 87.00 m

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