

REPORT TC14-01  
LAUNCESTON.

THIESS COAL SYSTEM  
GEOLOGICAL LOG REPORT

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ATP EL2080 TENEMENT 2080  
LAUNCESTON

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EL2080 LAUNCESTON. R0023  
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Eastings: 497240.000  
Northings: 5410360.000  
Grid Type: Australian Mappings Grid  
Accuracy: Approximate  
Cr1: 150.00  
Datum: Approximate Level - Not Surveyed  
Sheet Reference:  
Sheet Index:  
Total Depth: 76.80  
Drillings Commenced: 10/11/81  
Drillings Completed: 11/11/81  
Inclination:  
Azimuth:  
Standing Water Level: 2.5

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

Counts:  
Parish:  
Portion:

Plus Depth:  
Hole Diameter: 150  
Core Diameter:  
Cased Depths:  
Core Barrel:

Available Data: Gamma Loss  
Density Loss  
Resistivity Loss  
Caliper Loss

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
					3.00	3.00	CLAY	Light to medium grey - yellow; firm; low plasticity (clay).
					4.20	1.20	CLAY	Light to medium orange - grey; firm; low plasticity (clay).
					4.50	0.30	CLAY	Sandy; light to medium yellow - grey; firm; low plasticity (clay).
					6.50	2.00	CLAY	Sandy; light to medium orange - grey; firm; low plasticity (clay).
					7.50	1.00	CLAY	Woody textured; light to medium brown - yellow; firm; high plasticity (clay).
					10.10	2.60	CLAY	Light to medium brown; firm; high plasticity (clay).
					10.60	0.50	CLAY	Light to medium grey; firm; high plasticity (clay).
					12.10	1.50	CLAY	Silty; light to medium brown - yellow; firm; high plasticity (clay).
					13.80	1.70	CLAY	Light to medium grey - brown; firm; low plasticity (clay).
					15.50	1.70	CLAY	Woody textured; light to medium grey; firm; high plasticity (clay).
					16.60	1.10	CLAY	Light to medium grey - brown; firm; low plasticity (clay).
					17.25	0.65	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (argenic).
					17.70	0.45	CLAY	Light to medium brown - grey; firm; low plasticity (clay).
					19.30	1.60	INFERIOR LIGNITE	Humified; pasty; dark brown; firm; friable; fibrous; Additional features include: woody textured; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; low plasticity (argenic).
					20.20	0.90	INFERIOR LIGNITE	Clayey; pasty; dark brown; firm; friable; fibrous; Additional features include: woody textured; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; low plasticity (argenic).
					21.30	1.10	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (argenic).
					22.10	0.80	INFERIOR LIGNITE	Pasty; woody textured; dark brown; firm; friable; fibrous; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; low plasticity (argenic).

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					23.17	1.07	INFERIOR LIGNITE	Clayey, peaty, dark brown, firm, friable, fibrous; Additional features include: woody textured; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low elasticity (ordanic).
					25.30	2.13	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (ordanic); Bands include: INFERIOR LIGNITE, clayey, peaty, medium to dark brown, firm, friable.
					26.00	0.70	INFERIOR LIGNITE	Peaty, woody textured, medium to dark brown, firm, friable; fibrous; Additional features include: humified, clayey;  LIGNITE OF SEAM 2 CHARACTERIZED BY *
								A SPONGY, FIBROUS, ALMOST ELASTIC *
					28.50	2.50	CLAY	Carbonaceous, medium to dark brown, firm, high plasticity (clay).
					30.40	1.90	CLAY	Sandy, woody textured, medium to dark brown, firm, low plasticity (clay).
					31.20	0.80	CLAY	Medium to dark brown - grey, firm, high plasticity (clay).
					31.60	0.40	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (ordanic).
					33.20	1.60	INFERIOR LIGNITE	Clayey, peaty, dark brown - black, firm, friable, fibrous; Additional features include: humified.
					33.60	0.40	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (ordanic).
					34.00	0.40	INFERIOR LIGNITE	Clayey, dark brown, firm, friable.
					34.80	0.80	CLAY	Carbonaceous, medium to dark brown - grey, firm, high plasticity (clay).
					35.80	1.00	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (ordanic); Bands include: CLAY, carbonaceous, medium to dark brown - grey, firm, high plasticity (clay).
					36.50	0.70	CLAY	Carbonaceous, medium to dark brown - grey, 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
					37.50	1.00	INFERIOR LIGNITE	Woody textured; nests; dark brown - black; firm; friable; fibrous.
					38.20	0.70	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; fibrous; Additional features include: nests.
					39.10	0.90	INFERIOR LIGNITE	Interbedded 80:20; Additional features include: nests; LIGNEOUS CLAY: medium to dark brown; firm; low plasticity (organic).
					39.90	0.80	INFERIOR LIGNITE	Woody textured; nests; dark brown - black; firm; friable; fibrous.
					40.30	0.40	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; fibrous; Additional features include: nests.
					40.90	0.60	INFERIOR LIGNITE	Woody textured; nests; dark brown - black; firm; friable; fibrous.
					42.40	1.50	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; fibrous; Additional features include: nests.
					43.50	1.10	CLAY	Silty; carbonaceous; medium to dark brown - grey; firm; high plasticity (clay).
					44.10	0.60	LIGNITE	Woody textured; nests; dark brown - black; firm; friable; fibrous.
					44.80	0.70	INFERIOR LIGNITE	Woody textured; nests; dark brown - black; firm; friable; fibrous.
					45.30	0.50	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; fibrous; Additional features include: nests.
					45.80	0.50	INFERIOR LIGNITE	Woody textured; nests; dark brown - black; firm; friable; fibrous.
					46.20	0.40	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; fibrous; Additional features include: nests.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					46.50	0.30	INFERIOR LIGNITE	Woody textured; peaty; dark brown - black; firm; friable; fibrous.
					47.00	0.50	INFERIOR LIGNITE	Clayey; woody textured; dark brown - black; firm; friable; fibrous; Additional features include: peaty.
					49.30	2.30	CLAY	Carbonaceous; medium to dark brown - grey; firm; low plasticity (clay);  CHANGE CIRCULATING FLUID AT 48 METRES
					59.60	10.30	CLAY	Silt; light white - grey; soft; low plasticity (clay).
					61.30	1.70	INFERIOR LIGNITE	Woody textured; peaty; medium to dark brown - black; firm; friable; Bands include: INFERIOR LIGNITE; woody textured; peaty; medium to dark brown - black; low strength; brittle.
					62.30	1.00	CLAY	Kaolinitic; light to medium grey - brown; firm; high plasticity (clay); common woody fragments.
					63.00	0.70	LIGNITE	Woody textured; peaty; medium to dark brown; firm; friable; fibrous.
					68.50	5.50	CLAY	Light to medium grey - brown; firm; high plasticity (clay).
					69.20	0.70	SIDERITE	Light to medium brown; extremely high strength; tough; Bands include: SIDERITE; light to medium brown; high strength; brittle.
					74.80	7.60	CLAY	Silt; light to medium grey - brown; firm; low plasticity (clay); common woody fragments; Bands include: INFERIOR LIGNITE; 00.20 m thick; base at 0071.50m; woody textured; peaty; medium to dark brown; firm; friable;  LIGNITES OF SEAM 3 ARE CHARACTERIZED *  BY A SPONGY FIBROUS NATURE AND * HIGH INHERENT CLAY CONTENT * LOG REWRITTEN FROM GEOPHYSICAL LOG * ENTIRELY FROM 0 TO 35 METRES *

END OF BORE AT 74.80 m