

REPORT TC14-01  
LAUNCESTON.

THIESS COAL SYSTEM  
GEOLOGICAL LOG REPORT

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ATP EL2080 TENEMENT 2080  
LAUNCESTON

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Easting: 5412960.000  
Northing: 493260.000  
Grid Type: Australian Mapping Grid  
Accuracy: Approximate  
Cri: 165.00  
Datum: Approximate Level - Not Surveyed  
Sheet Reference:  
Sheet Index:  
Total Depth: 90.00  
Drilling Commenced: 09/10/81  
Drilling Completed: 12/10/81  
Inclination:  
Azimuth:  
Standing Water Level: 7.7

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: 120  
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
TE					4.00	4.00	CLAY	Mottled grey - white, weathered, stiff, high plasticity (clay), gradational base; Additional features include: yellow - red.
TE					6.50	2.50	CLAY	Mottled grey - yellow, weathered, firm, low plasticity (clay); Additional features include: brown; Bands include: CLAY, 00.10 m thick, base at 0005.50m, silty, light to medium yellow, weathered, firm, low plasticity (clay).
TE					8.40	1.90	CLAY	Light to medium purple - brown, firm, high plasticity (clay).
TE					10.40	2.00	CLAY	Carbonaceous, light to medium brown, firm, high plasticity (clay), common ligneous wisps.
TE					11.50	1.10	CLAY	Carbonaceous, light to medium grey - brown, firm, high plasticity (clay), occasional ligneous wisps.
TE					13.20	1.70	LIGNITE	Dark brown - black, firm, friable; Bands include: CLAY, carbonaceous, light to medium brown - grey, firm, high plasticity (clay).
TE					15.20	2.00	INFERIOR LIGNITE	Clayey, dark brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					15.80	0.60	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (clay).
TE					17.15	1.35	INFERIOR LIGNITE	Dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					17.80	0.65	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
TE					18.50	0.70	INFERIOR LIGNITE	Dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					19.30	0.80	LIGNITE	Dark brown - black, firm, friable.
TE					20.50	1.20	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 90:10. INFERIOR LIGNITE: clayey, dark brown - black, firm, friable; LIGNEOUS CLAY: medium to dark brown, firm, low plasticity (organic).

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					21.65	1.15	LIGNITE	Dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					22.25	0.60	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
TE					24.50	2.25	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 80:20. INFERIOR LIGNITE: clayey, dark brown - black, firm, friable; LIGNEOUS CLAY: medium to dark brown, firm, low plasticity (organic).
TE					25.20	0.70	LIGNITE	Dark brown - black, firm, friable.
TE					26.35	1.15	INFERIOR LIGNITE	Dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					27.20	0.85	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
TE					27.50	0.30	INFERIOR LIGNITE	Dark brown - black, firm, friable.
TE					29.30	1.80	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic); Bands include: INFERIOR LIGNITE, clayey, dark brown - black, firm, friable.
TE					29.80	0.50	INFERIOR LIGNITE	Dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, friable.
TE					30.40	0.60	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
TE					32.20	1.80	INFERIOR LIGNITE	Dark brown - black, firm, friable; Bands include: LIGNITE, dark brown - black, firm, friable.
TE					35.30	3.10	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic); Bands include: INFERIOR LIGNITE, clayey, medium to dark brown, firm, friable.
TE					36.70	1.40	CLAY	Carbonaceous, light to medium brown, firm, low plasticity (clay).
TE					37.70	1.00	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable; Bands include: INFERIOR LIGNITE, base at 003B.20m, clayey, medium to dark brown, firm, friable; Bands include: 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					39.30	1.60	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable.
TE					42.60	3.30	CLAY	Carbonaceous, light to medium brown, soft, low plasticity (clay); Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					44.10	1.50	INFERIOR LIGNITE	Medium to dark brown - black, soft, friable; Bands include: INFERIOR LIGNITE, clayey, medium to dark brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
TE					46.00	1.90	CLAY	Carbonaceous, light to medium brown, soft, low plasticity (clay); Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic);  TRIPPED OUT OF HOLE AT 45.00 METRES 9/10/81
TE					46.40	0.40	INFERIOR LIGNITE	Medium to dark brown, firm, friable.
TE					47.60	1.20	CLAY	Carbonaceous, light to medium brown, soft, low plasticity (clay).
TE					49.50	1.90	CLAY	Light white - yellow, very soft, low plasticity (clay).
TE					49.80	0.30	SIDERITE	Light to medium brown - green, high strength, tough.
TE					50.30	0.50	CLAY	Light white - yellow, very soft, low plasticity (clay).
TE					50.80	0.50	SIDERITE and CLAY	Interbedded 50:50. SIDERITE: light to medium brown, low strength, brittle; CLAY: light white - yellow, very soft, low plasticity (clay).
TE					54.60	3.80	CLAY	Mottled white - cream, soft, low plasticity (clay); Additional features include: yellow; Bands include: SIDERITE, 00.10 m thick, base at 0052.50m, light to medium brown, low strength, brittle.
TE					58.40	3.80	CLAY and CLAY	Interbedded 70:30. CLAY: carbonaceous, light to medium grey - brown, soft, low plasticity (clay), common woody fragments; CLAY: mottled white - cream, soft, low plasticity (clay); Additional features include: yellow.

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STRAT NAME	SEG NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
TE					58.80	0.40	SIDERITE	Light to medium brown, high strength, tough.
TE					59.80	1.00	SAND	Quartzose, clayey, light grey, medium dense, non-plastic, fine grained.
TE					63.30	3.50	CLAY	Sandy, quartzose, light to medium grey, firm, high plasticity (clay), very fine grained.
TE					64.80	1.50	SAND	Quartzose, clayey, light grey, medium dense, non-plastic, fine grained.
TE					65.00	0.20	SIDERITE	Light to medium brown, high strength, tough;
								CIRCULATION POOR BETWEEN 61.8 AND 65.00 * METRES
TE					66.00	1.00	SAND	Quartzose, clayey, light grey, medium dense, non-plastic, fine and medium grained.
TE					70.00	4.00	CLAY	Sandy, quartzose, light grey, very soft, low plasticity (clay), fine and medium grained.
TE					76.00	6.00	CLAY	Silty, sandy, light grey, very soft, low plasticity (clay), fine grained; Bands include: CLAY, light white, very soft, low plasticity (clay).
TE					81.00	5.00	SAND	Quartzose, light grey, medium dense, non-plastic, fine and medium grained.
TE					90.00	9.00	SAND	Quartzose, light grey, medium dense, non-plastic, fine grained.

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 END OF BORE AT            90.00 m  
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