

REPORT TC14-01  
LAUNCESTON.

THIESS COAL SYSTEM  
GEOLOGICAL LOG REPORT

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ATP EL2080 TENEMENT 2080  
LAUNCESTON

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Easting: 486710.000  
Northing: 5411640.000  
Grid Type: Australian Mapping Grid  
Accuracy: Approximate  
Cr1: 150.00  
Datum: Approximate Level - Not Surveyed  
Sheet Reference:  
Sheet Index:  
Total Depth: 87.00  
Drilling Commenced: 07/10/81  
Drilling Completed: 10/10/81  
Inclination:  
Azimuth:  
Standing Water Level: 1.0

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: 1.8  
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	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.50	0.50	SAND	Silty, medium to dark brown, medium dense, non-plastic, fine and medium grained.
					2.00	1.50	CLAY	Micaceous, light white - grey, stiff, low plasticity (clay).
					2.40	0.40	SAND	Quartzose, light to medium orange, medium dense, non-plastic, fine and medium grained, uniform, well sorted, rounded, gradational base.
					2.60	0.20	SAND	Quartzose, light yellow - grey, medium dense, non-plastic, fine and medium grained, uniform, well sorted, rounded.
					2.80	0.20	SAND	Clayey, quartzose, light white - grey, medium dense, non-plastic, fine and medium grained, uniform.
					4.50	1.70	SAND	Silty, light to medium orange - yellow, medium dense, non-plastic, fine and medium grained, uniform.
					5.20	0.70	CLAY	Carbonaceous, medium to dark brown, soft, low plasticity (clay), common ligneous wisps; Additional features include: abundant woody fragments.
					5.50	0.30	CLAY	Light to medium grey, firm, low plasticity (clay); Bands include: SAND, quartzose, clayey, light to medium grey, medium dense, non-plastic.
					5.60	0.10	SAND	Quartzose, light to medium orange, medium dense, non-plastic.
					7.00	1.40	LIGNEOUS CLAY	Medium to dark brown, soft, low plasticity (organic).
					8.60	1.60	SAND	Quartzose, light to medium orange - yellow, medium dense, non-plastic, fine grained.
					8.70	0.10	GRAVEL	Medium dense, non-plastic.
					13.50	4.80	SAND	Quartzose, clayey, light grey, medium dense, non-plastic, fine grained, well sorted, rounded, heavy minerals, accessory, disseminated; Additional features include: well rounded;
CIRCULATION POOR FROM 6 METRES, USED *								
1200 GALLONS TO 12 METRES.								

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					14.50	1.00	SAND	Clayey, ligneous, light to medium brown, medium dense, non-plastic, fine grained, occasional ligneous wisps; Additional features include: silty, quartzose, very fine grained; Bands include: LIGNEOUS CLAY, sandy, silty, medium to dark brown, firm, low plasticity (clay).
					22.50	8.00	SILT	Sandy, carbonaceous, light to medium grey - brown, medium dense, non-plastic, fine grained; MIXED 2XSACKS SUPERGEL, 1/2XSACHEL * ROTRDL. 1200 GALLONS WATER FROM 12 TO 20 METRES. * CIRCULATION POOR AFTER MUD MIXING. *
					24.20	1.70	CLAY	Sandy, silty, light to medium grey, soft, low plasticity (clay), abundant woody fragments; Additional features include: occasional ligneous wisps.
					24.90	0.70	SAND	Quartzose, carbonaceous, light grey, medium dense, non-plastic, fine grained, well sorted, rounded, equant.
					25.90	1.00	CLAY	Light to medium grey, soft, high plasticity (clay), occasional woody fragments.
					26.40	0.50	SAND	Quartzose, carbonaceous, light grey, medium dense, non-plastic, fine grained, well sorted, rounded, equant.
					26.80	0.40	CLAY	Light to medium grey, soft, high plasticity (clay), occasional woody fragments.
					30.00	3.20	SAND	Quartzose, carbonaceous, light grey, medium dense, non-plastic, fine grained; SANDS CONTAIN MINOR ROCK FRAGMENTS * AND FELDSPAR. COMMON SMALL CARBON-ACEOUS FRAGMENTS. * USED 1200 GALLONS OF WATER FROM 20 TO 30 METRES * PULLED RODS AT 30M 7/10/81 WATER FLOWED FROM RODS 15 MINS. CLAY BALLING CAUSING PRESSURIZING OF FORMATIONS. DOUBTFUL IF LITHOLOGIES FROM 8.7M ARE ALL SANDS AS LOGGED *

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					30.50	0.50	CLAY	Light to medium grey, soft, high plasticity (clay).
					31.20	0.70	LIGNITE	Woody textured, dark black - brown, firm, friable; Bands include: INFERIOR LIGNITE, clayey, dark brown, firm, low plasticity (organic); Bands include: LIGNEOUS CLAY, dark brown, firm, low plasticity (organic).
					32.00	0.80	SAND	Quartzose, medium dense, non-plastic, fine grained.
					32.40	0.40	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic); Bands include: LIGNITE, dark black - brown, firm, friable; Bands include: CLAY, light to medium grey, soft, high plasticity (clay).
					33.80	1.40	CLAY	Light to medium grey, soft, high plasticity (clay).
					35.00	1.20	SAND	Quartzose, light grey, medium dense, non-plastic, fine and medium grained.
					37.30	2.30	CLAY	Bentonitic, light to medium grey, soft, low plasticity (clay), common woody fragments; Bands include: CLAY, carbonaceous, dark brown, soft, low plasticity (clay), occasional ligneous wisps.
					37.70	0.40	SAND	Quartzose, woody textured, light brown - grey, medium dense, non-plastic, fine and medium grained, abundant woody fragments.
					38.10	0.40	CLAY	Carbonaceous, medium to dark brown - grey, soft, low plasticity (clay), occasional ligneous wisps; Additional features include: common woody fragments; Bands include: CLAY, light to medium grey, soft, low 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
					40.00	1.90	LIGNEOUS CLAY and LIGNITE	Interbedded 50:50. LIGNEOUS CLAY: sandy, quartzose, medium to dark brown, soft, low plasticity (organic), common woody fragments; LIGNITE: woody textured, medium to dark brown, low strength, brittle; Bands include: LIGNITE, medium to dark brown, firm, friable; Bands include: SAND, ligneous, quartzose, light to medium brown, medium dense, non-plastic, common woody fragments;  SIMILAR TO LOWER SECTION OF LIGNEOUS *  ZONE AT SEDAN
					43.00	3.00	CLAY	Carbonaceous, light to medium brown - grey, very soft, low plasticity (clay), gradational base, common woody fragments; Bands include: CLAY, bentonitic, light to medium grey, soft, low plasticity (clay).
					49.00	6.00	CLAY	Bentonitic, light to medium grey, firm, low plasticity (clay), gradational base;  VERY POOR SAMPLE RETURN ONLY FIRM CLAY *  RETURNED AS CHIPS. SOFT CLAYS DISPERSE
					52.70	3.70	CLAY	Carbonaceous, bentonitic, light to medium brown - grey, firm, low plasticity (clay).
					53.50	0.80	SAND	Quartzose, light grey - brown, medium dense, non-plastic, common woody fragments.
					56.20	2.70	LIGNEOUS CLAY	Medium to dark brown, soft, low plasticity (organic), common woody fragments; Bands include: CLAY, bentonitic, light to medium grey, soft, low plasticity (clay).
					58.00	1.80	SAND	Quartzose, silty, light grey - brown, medium dense, non-plastic, fine grained, common woody fragments; Bands include: CLAY, carbonaceous, silty, light to medium brown, soft, low plasticity (clay), common ligneous wisps.

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					69.00	11.00	CLAY	Silty, light white, soft, low plasticity (clay); Bands include: SAND, quartzose, ligneous, light brown, medium dense, non-plastic, common woody fragments;  USED 1200 GALLONS OF WATER FROM 30 *  TO 64 METRES
					70.50	1.50	CLAY	Silty, light to medium grey - brown, soft, low plasticity (clay), occasional woody fragments.
					72.50	2.00	SILT	Clayey, ligneous, light brown - grey, loose, non-plastic;  "SUB-BITUMINOUS DULL BANDED COALLY *  BANDS ABUNDANT
					74.50	2.00	CLAY	Light to medium grey, firm, high plasticity (clay); Bands include: SILT, sandy, light grey, medium dense, non-plastic, very fine grained.
					75.90	1.40	SILT	Sandy, quartzose, soft, low plasticity (silt).
					76.80	0.90	CLAY	Light to medium grey, firm, high plasticity (clay), occasional woody fragments; Bands include: SILT, sandy, quartzose, light grey, medium dense, non-plastic, fine grained, occasional woody fragments.
					80.00	3.20	CLAY	Light to medium grey, firm, high plasticity (clay).
					87.00	7.00	CLAY and CLAY	Interbedded 80:20. CLAY: light to medium grey - green, firm, high plasticity (clay); CLAY: carbonaceous, light to medium brown - grey, soft, low plasticity (clay), common woody fragments;  RAN OUT OF RODS AT T. D.

END OF BORE AT 87.00 m

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