

REPORT TC14-01

THIESS COAL SYSTEM

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LAUNCESTON

GEOLOGICAL LOG REPORT

ATP EL2080
LAUNCESTON

TENEMENT 2080

EL2080 LAUNCESTON. R0021

Eastings: 493600.000
Northings: 5412360.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Cr1: 175.00
Datum: Approximate Level - Not Surveyed

Loading Organisation: CSR Exploration and Evaluation Group
Loaded By: ELLIS
Drilling Contractor: H.J. Stacpoole
Geophysical Logging: Murdoch Geophysics

Sheet Reference:
Sheet Index:
Total Depth: 83.26
Drilling Commenced: 09/11/81
Drilling Completed: 09/11/81
Inclination:
Azimuth:
Standing Water Level: 3.9

County:
Parish:
Portion:

Plug Depth:
Hole Diameter: 150
Core Diameter:
Cased Depth:
Core Barrel:

Available Data: Gamma Log
Density Log
Resistivity Log
Caliper Log

Drill Bits: Bladed

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

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100

9799 1076

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.50	0.50	CLAY	Bentonitic; medium to dark brown; firm; high plasticity (clay); gradational base; Bands include: CLAY; medium to dark brown; stiff; high plasticity (clay).
					2.50	2.00	CLAY	Mottled cream - yellow; stiff; high plasticity (clay); gradational base.
					3.20	0.70	CLAY	Mottled white - cream; very stiff; high plasticity (clay); gradational base.
					5.00	1.80	CLAY	Mottled white - cream; firm; high plasticity (clay); gradational base.
					7.85	2.85	CLAY	Silty; mottled cream - yellow; firm; high plasticity (clay).
					8.50	0.65	LIGNITE	Dark black - brown; firm; friable.
					9.05	0.55	INFERIOR LIGNITE	Clayey; dark black - brown; firm; friable; occasional woody fragments.
					10.30	1.25	LIGNITE	Clayey; dark black - brown; firm; friable; common woody fragments.
					12.70	2.40	CLAY	Light grey - white; firm; high plasticity (clay).
					13.45	0.75	INFERIOR LIGNITE	Peaty; woody textured; dark black - brown; firm; friable; fibrous.
					15.10	1.65	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (argenic).
					16.90	1.80	CLAY	Carbonaceous; light to medium brown - grey; firm; high plasticity (clay).
					17.90	1.00	INFERIOR LIGNITE	Peaty; woody textured; medium to dark black - brown; firm; friable.
					21.70	3.80	CLAY	Carbonaceous; light to medium brown - grey; firm; high plasticity (clay).
					23.00	1.30	CLAY	Carbonaceous; silty; light to medium grey - brown; firm; high plasticity (clay).
					28.30	5.30	CLAY	Light to medium white; firm; high plasticity (clay).
					29.50	1.20	SIDERITE	Light to medium 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
					30.90	1.40	CLAY	Light to medium white; firm; high plasticity (clay); CHANGED DRILLING MUD AT 32.0 METRES
					36.15	5.25	SILT	Sandy; clayey; light to medium grey; medium dense; non-plastic; occasional lenticular fragments.
					39.90	3.75	LIGNITE	Woody textured; peaty; medium to dark black - brown; firm; friable; fibrous.
					40.45	0.55	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					40.70	0.25	LIGNITE	Medium to dark black - brown; firm; friable.
					41.10	0.40	INFERIOR LIGNITE	Medium to dark brown - black; firm; friable.
					41.70	0.60	LIGNITE	Woody textured; peaty; medium to dark black - brown; firm; friable.
					43.40	1.70	CLAY	Woody textured; medium to dark black - brown; firm; high plasticity (clay); abundant woody fragments.
					43.90	0.50	INFERIOR LIGNITE	Medium to dark brown - black; firm; friable.
					45.20	1.30	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					48.75	3.55	CLAY	Sandy; medium to dark brown - grey; firm; low plasticity (clay).
					49.30	0.55	SIDERITE	Light to medium brown; low strength; brittle.
					53.20	3.90	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay).
					57.70	4.50	INFERIOR LIGNITE	Medium to dark brown; firm; friable; INTERPRETED FROM GP LOG AS INFERIOR LIGNITE * LOGGED FROM CUTTINGS AS CARB. CLAY
					61.10	3.40	CLAY	Light to medium grey; soft; low plasticity (clay).
					61.60	0.50	SIDERITE	Light to medium brown; low strength; brittle.

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GEOLOGICAL LOG REPORT

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					63.00	1.40	CLAY	Carbonaceous; light to medium brown - grey; firm, low elasticity (clay).
					64.80	1.80	LIGNITE	Clayey, medium to dark brown - black; firm, friable.
					65.50	0.70	INFERIOR LIGNITE	Clayey, medium to dark brown - black; firm, friable.
					67.00	1.50	LIGNITE	Clayey, medium to dark brown - black; firm; friable.
					68.10	1.10	INFERIOR LIGNITE	Clayey, medium to dark brown - black; firm, friable.
					83.20	15.10	CLAY	Medium to dark brown; firm, low plasticity (clay);

THE INTERVAL 50.0 METRES TO TOTAL DEPTH *
 WAS CHARACTERIZED BY POOR SAMPLE RETURN *
 N WHILST DRILLING. SOME LIGNITE WAS *
 LOGGED AT 63.0 METRES, BUT NOT THE *
 THICKNESS INDICATED BY THE GEOPHYSICAL *
 LOG. *
 NOTE ANOMALOUS GAMMA VS DENSITY RESPONSES ON GEOPHYSICAL LOGS. *

 END OF BORE AT 83.20 m

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