

REPORT TC14-01  
LAUNCESTON.

THIESS COAL SYSTEM  
GEOLOGICAL LOG REPORT

PAGE 26 22/ 6/82 10:06:31  
ATP EL2080 TENEMENT 2080  
LAUNCESTON

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EL2080 LAUNCESTON. R0006  
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Easting: 5410590.000  
Northing: 496130.000  
Grid Type: Australian Mapping Grid  
Accuracy: Approximate  
Cr1: 160.00  
Datum: Approximate Level - Not Surveyed  
Sheet Reference:  
Sheet Index:  
Total Depth: 75.00  
Drilling Commenced: 14/10/81  
Drilling Completed: 15/10/81  
Inclination:  
Azimuth:  
Standing Water Level: 0.0

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: 3.0  
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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REPORT TC14-01

THIESS COAL SYSTEM

PAGE 27 22/ 6/82 10:06:31

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080  
LAUNCESTON

TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
GA					0.20	0.20	SAND	Clayey, medium to dark brown, weathered, soft, non-plastic.
					1.80	1.60	SAND	Clayey, light brown - orange, weathered, soft, non-plastic; Bands include: CLAY, mottled buff - pink, weathered, firm, high plasticity (clay); Additional features include: khaki.
					2.20	0.40	SAND	Clayey, light brown - orange, weathered, soft, non-plastic.
					3.00	0.80	CLAY	Mottled buff - khaki, weathered, firm, high plasticity (clay); Additional features include: pink - grey.
					5.60	2.60	CLAY	Silty, mottled yellow - buff, firm, high plasticity (clay); Additional features include: grey; Bands include: CLAY, carbonaceous, medium to dark brown, firm, high plasticity (clay).
					6.50	0.90	CLAY	Light to medium brown - buff, firm, high plasticity (clay).
					8.60	2.10	CLAY	Light to medium grey - brown, firm, high plasticity (clay); Bands include: CLAY, light to medium brown, firm, high plasticity (clay); Bands include: CLAY, 00.90 m thick, base at 0007.40m, sandy, gravelly, light to medium yellow, firm, low plasticity (clay); Bands include: CLAY, 00.60 m thick, base at 0008.60m, sandy, gravelly, light to medium yellow, firm, low plasticity (clay).
					10.00	1.40	CLAY	Light to medium grey, firm, high plasticity (clay).
					10.50	0.50	IRONSTONE - UN- DIFFERENTIATED	Gravelly, sandy, light to medium purple - brown, high strength, tough; Bands include: IRONSTONE - UN- DIFFERENTIATED, gravelly, sandy, light to medium purple - brown, low strength, brittle.
					11.00	0.50	CLAY	Light to medium grey, firm, high plasticity (clay).
					11.30	0.30	IRONSTONE - UN- DIFFERENTIATED	Gravelly, sandy, light to medium purple - brown, low strength, brittle.
					12.30	1.00	CLAY	Sandy, gravelly, light to medium yellow, firm, low plasticity (clay); Bands include: CLAY, light to medium grey, firm, high plasticity (clay).

EL2080 LAUNCESTON. R0006

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041

REPORT TC14-01

THIESS COAL SYSTEM

PAGE 28 22/ 6/82 10:06:31

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080  
LAUNCESTON

TENEMENT 2080

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					13.00	0.70	SAND	Gravelly, quartzose, light to medium orange - brown, medium dense, non-plastic.
					15.70	2.70	CLAY	Light to medium grey - brown, firm, high plasticity (clay).
					17.00	1.30	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, low plasticity (organic).
					17.40	0.40	LIGNEOUS CLAY	Medium to dark brown - black, firm, high plasticity (organic); Bands include: CLAY, carbonaceous, light to medium brown - grey, firm, low plasticity (clay).
					18.80	1.40	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, low plasticity (organic); Bands include: INFERIOR LIGNITE, medium to dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, high plasticity (organic).
					19.40	0.60	CLAY	Carbonaceous, light to medium grey - brown, firm, low plasticity (clay).
					20.50	1.10	LIGNEOUS CLAY	Medium to dark brown - black, firm, low plasticity (organic).
					21.00	0.50	LIGNITE	Medium to dark black - brown, firm, friable.
					23.20	2.20	LIGNEOUS CLAY and INFERIOR LIGNITE	Interbedded 60:40. LIGNEOUS CLAY: medium to dark brown - black, firm, low plasticity (organic); INFERIOR LIGNITE: clayey, medium to dark black - brown, firm, friable;
								THE INTERVAL 15.7 TO 23.2 METRES IS INTERPRETED *
								FROM THE GEOPHYSICAL LOG. THE LOG SHOWS AN ANOMOLOUS GAMMA VS DENSITY RESPONSE *
					24.70	1.50	LIGNITE	Medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown - black, firm, low plasticity (organic).
					25.20	0.50	INFERIOR LIGNITE	Woody textured, medium to dark black - brown, firm, friable.
					25.90	0.70	LIGNITE	Woody textured, medium to dark black - brown, firm, friable.

EL2080 LAUNCESTON. R0006

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REPORT TC14-01

THIESS COAL SYSTEM

PAGE 29 22/ 6/82 10:06:32

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080  
LAUNCESTON

TENEMENT 2080

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					27.00	1.10	INFERIOR LIGNITE	Woody textured, medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown - black, firm, low plasticity (organic).
					28.85	1.85	LIGNITE	Woody textured, medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown - black, firm, low plasticity (organic).
					29.40	0.55	INFERIOR LIGNITE	Medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown - black, firm, low plasticity (organic).
					32.30	2.90	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), abundant ligneous wisps; Additional features include: common woody fragments.
					35.30	3.00	CLAY	Carbonaceous.
					36.10	0.80	LIGNEOUS CLAY	
								NO SAMPLE RETURN BETWEEN 33.0 AND 36.0 METRES *
								DUE TO CLAY BALLING * TRIPPED OUT OF HOLE AT 39.0 METRES 14/10/81
					40.30	4.20	CLAY	Silty, light to medium grey, very soft, low plasticity (clay).
					41.50	1.20	CLAY	Light to medium grey, very soft, low plasticity (clay).
					44.00	2.50	CLAY	Silty, carbonaceous, light to medium grey - brown, soft, low plasticity (clay), common ligneous fragments; Additional features include: common woody fragments;
								NO DEPTH CORRECTIONS MADE FROM 44 METRES DUE TO *
								GEOPHYSICAL LOG ENDING AT 44.0 M
					45.60	1.60	CLAY	Silty, light to medium grey, soft, low plasticity (clay).
					46.50	0.90	CLAY	Carbonaceous, light to medium brown - grey, soft, low plasticity (clay), common ligneous fragments; Additional features include: common woody fragments.

EL2080 LAUNCESTON. R0006

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REPORT TC14-01

THIESS COAL SYSTEM

PAGE 30 22/ 6/82 10:06:32

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080 TENEMENT 2080  
LAUNCESTON

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					47.00	0.50	LIGNITE	Woody textured, medium to dark brown, firm, friable, common woody fragments; LOST CIRCULATION AT 47.00 METRES DUE TO * CLAY BALLING, CAUSTIC SODA ADDED
					51.20	4.20	CLAY	Carbonaceous, medium to dark brown, soft, low plasticity (clay), abundant woody fragments; SAMPLE RETURN PREDOMINANTLY WOOD FRAG- * MENTS, THIS LITHOL MAY BE A LIGNITE
					52.40	1.20	CLAY and CLAY	Interbedded 50:50. CLAY: carbonaceous, medium to dark brown, soft, low plasticity (clay); CLAY: light white - grey, soft, low plasticity (clay).
					56.00	3.60	INFERIOR LIGNITE	Woody textured, clayey, medium to dark brown - black, soft, friable, abundant woody fragments; Additional features include: silty.
					68.00	12.00	CLAY	Carbonaceous, medium to dark brown, soft, low plasticity (clay), abundant woody fragments; CIRCULATION POOR, VERY LITTLE SAMPLE * RETURN DUE TO CLAY BALLING
					75.00	7.00	CLAY	Light to medium grey - brown, soft, high plasticity (clay); PULLED 6.0M OF RODS TO ATTEMPT TO CLEAR * CLAY BALLS AND RETURN CIRCULATION * HOLE TERMINATED DUE TO POOR RETURN * OF CUTTINGS, I.E. NO LITHOTYPE COULD * BE IDENTIFIED

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END OF BORE AT 75.00 m  
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EL2080 LAUNCESTON. R0006

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