

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATF EL2080 TENEMENT 2080  
LAUNCESTON

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EL2080 LAUNCESTON. R0009  
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Eastings: 497360.000  
Northings: 5409490.000  
Grid Type: Australian Mairns Grid  
Accuracy: Approximate  
Crl: 160.00  
Datum: Approximate Level - Not Surveyed  
Sheet Reference:  
Sheet Index:  
Total Depth: 75.00  
Drilling Commenced: 21/10/81  
Drilling Completed: 22/10/81  
Inclination:  
Azimuth:  
Standing Water Level: 1.1

Loggings Organisation: CSR Exploration and Evaluation Group  
Logged By: ELLIS  
Drilling Contractor: H.J. Stackpole  
Geophysical Logging: Murdoch Geophysics

County:  
Parish:  
Portion:

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

Available Data: Gamma Loss  
Density Logs  
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
					0.20	0.20	SAND	Silty clayey; medium to dark grey - brown; medium dense; non-plastic.
					2.90	2.70	CLAY	Sandy; medium to dark yellow - brown; firm; high plasticity (clay); gradational base.
					4.20	1.30	CLAY	Mottled grey - yellow; firm; high plasticity (clay); PREDOMINANTLY GREY IN COLOR, APPROX * 10-15% YELLOW COLORATION
					4.70	0.50	CLAY	Mottled brown - grey; firm; high plasticity (clay); LIGHT TO MID COLORATION
					5.50	0.80	CLAY	Medium to dark brown; firm; high plasticity (clay).
					6.50	1.00	CLAY	Mottled brown - grey; firm; high plasticity (clay); Bands include: CLAY; dark brown; firm; high plasticity (clay).
					7.30	0.80	CLAY	Dark brown; firm; high plasticity (clay).
					7.50	0.20	CLAY	Mottled brown - grey; firm; high plasticity (clay); Bands include: CLAY; dark brown; firm; high plasticity (clay).
					7.90	0.10	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable.
					8.60	0.70	LIGNEOUS CLAY	Dark brown; stiff; high plasticity (ordonic).
					9.15	0.55	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable.
					9.45	0.30	CLAY	Medium to dark brown; stiff; high plasticity (clay).
					9.90	0.45	INFERIOR LIGNITE	Medium to dark brown - black; firm; friable.
					10.45	0.55	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (ordonic).
					10.85	0.10	INFERIOR LIGNITE	Medium to dark brown - black; firm; friable.
					11.70	0.85	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (ordonic).

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					12.30	0.60	INFERIOR LIGNITE	Clayey, medium to dark brown; firm; friable; LIGNITES IN THE INTERVAL 7.5 TO 12.3 * METRES ARE PROBABLY IN FACT LOGS * OF WOOD IN CLAY DUE TO RIG RATTLI- * NG A THOUGH BLACK COAL INTERSECTED * NOTE ANOMOLOUS DENSITY VS GAMMA *
					14.30	2.00	CLAY	Medium to dark brown; firm; high plasticity (clay).
					16.50	2.20	CLAY	Carbonaceous; medium to dark brown; firm; high plasticity (clay); abundant woody fragments; Additional features include: common ligneous wisps.
					18.25	1.75	CLAY	Silt; light to medium grey; soft; low plasticity (clay); common woody fragments; WITH SOME FINE SAND
					18.90	0.65	INFERIOR LIGNITE	Medium to dark brown; firm; friable.
					19.35	0.45	LIGNITE	Peaty; woody textured; dark black - brown; firm; friable; fibrous; APPEARS TO BE A LOW RANK PEATY * BROWN COAL
					20.20	0.85	INFERIOR LIGNITE	Medium to dark brown; firm; friable.
					21.80	1.60	LIGNEOUS CLAY	Sandy; silt; medium to dark brown; firm; low plasticity (organic).
					23.00	1.20	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; low plasticity (organic); Bands include: CLAY; carbonaceous; medium to dark brown - grey; firm; high plasticity (clay).
					23.80	0.80	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic).
					24.30	0.50	LIGNITE	Peaty; woody textured; medium to dark brown - black; firm; friable; fibrous.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					24.50	0.20	INFERIOR LIGNITE	Pesty; woody textured; medium to dark brown - black; firm; friable.
					25.00	0.50	LIGNITE	Pesty; woody textured; medium to dark brown - black; firm; friable; Bands include: LIGNITE; humified; medium to dark black - brown; firm; high plasticity (clay).
					25.60	0.60	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (organic).
					26.25	0.65	LIGNITE	Pesty; woody textured; medium to dark black - brown; firm; friable; fibrous.
					27.00	0.75	CLAY	Carbonaceous; light to medium brown; firm; high plasticity (clay); common woody fragments; Bands include: LIGNITE; pesty; woody textured; medium to dark brown - black; firm; friable.
					27.40	0.40	INFERIOR LIGNITE	Clayey; pesty; medium to dark brown - black; firm; friable; fibrous; Additional features include: woody textured; Bands include: CLAY; carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); common woody fragments.
					27.80	0.40	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic); common woody fragments.
					28.35	0.55	INFERIOR LIGNITE	Clayey; pesty; medium to dark brown - black; firm; friable; fibrous.
					30.50	2.15	CLAY	Light to medium brown; firm; high plasticity (clay).
					31.80	1.30	CLAY	Carbonaceous; light to medium brown; firm; high plasticity (clay); gradational base; common woody fragments;  BECOMING GREYER TOWARDS BASE OF UNIT
					32.50	0.70	CLAY	Mottled cream - yellow; firm; high plasticity (clay).
					34.50	2.00	CLAY	Carbonaceous; light to medium brown; soft; high plasticity (clay); 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
					36.00	1.50	CLAY and CLAY	Interbedded 60:20. CLAY: mottled cream - yellow; firm; high plasticity (clay); common woody fragments; CLAY: carbonaceous; light to medium brown - grey; soft; high plasticity (clay).
					36.30	0.30	CLAY	Carbonaceous; light to medium brown - grey; soft; high plasticity (clay).
					36.90	0.60	SIDERITE	Light to medium brown; low strength; brittle.
					39.40	2.50	SAND	Quartzose; clayey; light to medium brown - grey; medium dense; non-plastic; medium drained; gradational base.
					42.70	3.30	CLAY	Sandy; quartzose; light to medium grey; soft; low plasticity (clay).
					46.70	4.00	CLAY	Silty; mottled cream - yellow; soft; low plasticity (clay); Bands include: GRAVEL, 00.20 m thick; base at 0045.90m, light to medium grey; medium dense; non-plastic; Bands include: GRAVEL, 00.10 m thick; base at 0046.10m, light to medium grey; medium dense; non-plastic; Bands include: SAND; quartzose; light to medium grey; medium dense; non-plastic; medium drained.
					50.00	3.30	CLAY and CLAY	Interbedded 60:40. CLAY: silty; light to medium grey; soft; low plasticity (clay); gradational base; CLAY: mottled cream - yellow; firm; high plasticity (clay).
					50.70	0.70	INFERIOR LIGNITE	Sandy; clayey; medium to dark brown - black; firm; friable; fibrous.
					51.30	0.60	CLAY	Carbonaceous; silty; light to medium brown; soft; low plasticity (clay).
					52.20	0.90	INFERIOR LIGNITE	Sandy; clayey; medium to dark brown - black; firm; friable; fibrous; Additional features include: woody textured; peats.
					52.80	0.60	CLAY	Carbonaceous; silty; light to medium brown; soft; low plasticity (clay).
					53.80	1.00	INFERIOR LIGNITE	Woody textured; peats; medium to dark brown - black; firm; friable; fibrous; Additional features include: sandy.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					54.40	0.60	CLAY	Carbonaceous; silt; light to medium brown; soft; low elasticity (clay).
					55.00	0.60	INFERIOR LIGNITE	Sandy; woody textured; medium to dark brown - black; firm; friable; fibrous; Additional features include: roots.
					55.80	0.80	CLAY	Carbonaceous; medium to dark brown; soft; low elasticity (clay).
					56.60	0.80	INFERIOR LIGNITE	Sandy; woody textured; medium to dark brown - black; firm; friable; Additional features include: roots.
					56.80	0.20	CLAY	Silty; carbonaceous; light to medium brown; soft; low elasticity (clay).
					57.30	0.50	INFERIOR LIGNITE	Clayey; woody textured; medium to dark brown - black; firm; friable; Additional features include: sand; roots;
								THE INTERVAL 50.0 TO 57.3 METRES IS *
								INTERPRETED FROM GEOPHYSICAL LOGS *
								INTERVAL WAS LOGGED AS WOODY; PEATY *
								SANDS; WITH CARBONACEOUS CLAY *
								INTERBANDS
					58.60	1.30	CLAY	Carbonaceous; silt; light to medium brown; soft; low elasticity (clay).
					59.50	0.90	CLAY	Mottled cream - yellow; firm; high plasticity (clay); CHANGED MUD AT 60.0 METRES
					61.00	1.50	CLAY	Carbonaceous; silt; light to medium brown; soft; low elasticity (clay).
					62.50	1.50	SAND	Ligneous; woody textured; medium to dark black - brown; medium dense; non-plastic; fine and medium grained; abundant woody fragments; Additional features include: roots;
								MAY BE AN INFERIOR LIGNITE

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					64.50	2.00	SAND	Gravelly, light to medium grey, medium dense, non-plastic, medium and coarse grained.
					65.50	1.00	CLAY	Mottled yellow - cream; firm; low plasticity (clay).
					69.00	3.50	SILT	Sandy, light to medium grey, medium dense, non-plastic, fine grained; Bands include: SILT; sandy, ligneous, medium to dark black - brown, medium dense, non-plastic, common woody fragments; Additional features include: woody textured, rooty.
					70.50	1.50	CLAY	Light white - grey, soft, high plasticity (clay).
					70.60	0.10	NO RECORD	High strength; tough; ASSUMED TO BE SIDERITE
					75.00	4.40	CLAY	Light white - grey, soft, high plasticity (clay).

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END OF BORE AT 75.00 m  
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