

REPORT TC14-01

THIASS COAL SYSTEM

PAGE 59 11/ 6/82 16:28:24

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080 TENEMENT 2080
LAUNCESTON

EL2080 LAUNCESTON. R0025

Eastings: 491250.000
Northings: 5410820.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Erl: 185.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 74.80
Drilling Commenced: 12/11/81
Drilling Completed: 12/11/81
Inclination:
Azimuth:
Standing Water Level: 0.5

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

County:
Parish:
Portion:

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

Available Data: Gamma Loss
Density Loss
Resistivity Loss
Caliper Loss

Drill Bits: Blades

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

EL2080 LAUNCESTON. R0025

REPORT TC14-01

THIESS COAL SYSTEM

PAGE 60 11/ 6/82 16:28:24

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080 TENEHENT 2080
LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.80	0.80	SILT	Clayey; humified; medium to dark brown; firm; low plasticity (silt).
					1.50	0.70	CLAY	Light to medium yellow; firm; high plasticity (clay).
					2.20	0.70	CLAY	Sandy; quartzose; light white; firm; low plasticity (clay).
					4.30	2.10	SAND	Quartzose; clayey; light white - orange; medium dense; non-plastic; fine and medium grained; Bands include: CLAY; sandy; quartzose; mottled white - orange; firm; low plasticity (clay).
					5.40	1.10	CLAY	Koalinitic; light grey; firm; high plasticity (clay); WITH SOME SAND
					6.50	1.10	CLAY	Koalinitic; light grey - off white; firm; high plasticity (clay).
					9.50	3.00	CLAY	Koalinitic; mottled off white - grey; firm; high plasticity (clay); Additional features include: cream; Bands include: CLAY; koalinitic; light to medium cream - yellow; firm; high plasticity (clay).
					10.50	1.00	CLAY	Mottled off white - pink; Additional features include: cream.
					12.20	1.70	CLAY	Mottled cream - pink; firm; high plasticity (clay); Additional features include: brown - grey.
					13.00	0.80	CLAY	Light to medium brown; firm; high plasticity (clay); BECOMING MID TO DARK BROWN AT BASE
					14.30	1.30	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (arsenic).
					15.40	1.10	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); Bands include: CLAY; carbonaceous; silty; medium to dark brown - grey; firm; low plasticity (clay).
					16.00	0.60	LIGNITE	Medium to dark brown - black; firm; friable.

EL2080 LAUNCESTON. R0025

REPORT TC14-01

THIESS COAL SYSTEM

PAGE 61 11/ 6/82 16:28:25

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080 TENEMENT 2080
LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					18.00	2.00	INFERIOR LIGNITE	Clayey, humified, medium to dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic); NOTE ANOMALOUS GAMMA-DENSITY RESPONSE * OF GEOPHYSICAL LOG-GAMMA INDICATES * LIGNITE, CLAYS AS LOGGED MAY BE OXIDIZ- * ED LIGNITE
					18.30	0.30	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
					19.40	1.10	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay).
					20.40	1.00	LIGNITE	Humified, medium to dark brown, firm, high plasticity (organic).
					21.00	0.60	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic).
					21.80	0.80	INFERIOR LIGNITE	Clayey, humified, medium to dark brown, firm, low plasticity (organic).
					22.20	0.40	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic).
					23.00	0.80	CLAY	Medium to dark brown, firm, high plasticity (clay), common ligneous wisps.
					23.40	0.40	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (organic).
					24.00	0.60	LIGNITE	Dark brown, firm, friable, fibrous.
					24.80	0.80	INFERIOR LIGNITE	Peaty, medium to dark brown, firm, friable, fibrous.
					25.60	0.80	CLAY	Carbonaceous, medium to dark brown, firm, high plasticity (clay).
					26.30	0.70	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable.
					31.70	5.40	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay).

EL2080 LAUNCESTON, R0025

REPORT TC14-01

THIESS COAL SYSTEM

PAGE 62 11/ 6/82 16:28:26

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
					36.25	4.55	CLAY and CLAY	Interbedded 80:20. CLAY: light to medium grey - white, firm, high plasticity (clay); occasional ligneous wisps; CLAY: ligneous; medium to dark brown - grey, firm; high plasticity (clay); occasional ligneous wisps; POOR SAMPLE RETURN; CLAY BALLING
					36.75	0.50	SIDERITE	Light to medium brown; low strength; brittle.
					39.70	2.95	CLAY	Light to medium grey - white, firm; high plasticity (clay).
					40.40	0.70	SIDERITE	Light to medium brown; high strength; tough.
					43.10	2.70	SAND	Clayey; light to medium grey - yellow; loose; non-plastic.
					46.75	3.65	SAND	Clayey; woody textured; light to medium grey - white; loose; non-plastic; fine and medium grained.
					50.95	4.20	SAND	Ligneous; woody textured; light to medium grey - brown; medium dense; non-plastic; medium and coarse grained.
					51.50	0.55	INFERIOR LIGNITE	Medium to dark brown; firm; friable.
					52.05	0.55	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).
					52.75	0.70	LIGNITE	Clayey; medium to dark brown; firm; low plasticity (organic).
					53.00	0.25	INFERIOR LIGNITE	Medium to dark brown; firm; low plasticity (organic); LIGNITE IN THIS SEAM IS SPONGY, LOW * PLASTICITY.
					56.75	3.75	CLAY	Ligneous; medium to dark brown; firm; low plasticity (organic).
					67.60	10.85	CLAY	Woody textured; sandy; light to medium brown - off white; firm; low plasticity (clay).
					69.50	1.90	SAND	Woody textured; light to medium brown - grey; medium dense; non-plastic.
					69.80	0.30	INFERIOR LIGNITE	Medium to dark brown; firm; friable.
					70.60	0.80	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (organic).

EL2080 LAUNCESTON. R0025

REPORT TC14-01

THIESS COAL SYSTEM
GEOLOGICAL LOG REPORT

PAGE 63 11/ 6/82 16:28:27

LAUNCESTON.

ATP EL2080 TENEMENT 2080
LAUNCESTON

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					71.90	1.30	INFERIOR LIGNITE	Medium to dark brown, firm, friable.
					73.40	1.50	CLAY	Carbonaceous, light to medium brown - grey, firm, high plasticity (clay).
					74.30	0.90	INFERIOR LIGNITE	Medium to dark brown, firm, friable.
					76.80	2.50	SAND	Clayey, woody textured, light to medium grey - brown, medium dense, non-elastic; LOWER SEAM LOGGED AS A SANDY LIGNEOUS * HORIZON ON RIG. GEOPHYSICAL LOG INTERPRETATION SUGGESTS INTERBANDDED LIGNITES AND CLAYS. *

END OF BORE AT 76.80 m

EL2080 LAUNCESTON. R0025