

REPORT TC14-01

THIASS COAL SYSTEM

PAGE 1 22/ 6/82 10:12:28

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080
LAUNCESTON

TENEMENT 2080

EL2080 LAUNCESTON. R0014

Easting: 492360.000
Northing: 5410080.000
Grid Type: Australian Mapping Grid
Accuracy: Approximate
Cr1: 155.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 80.00
Drilling Commenced: 30/10/81
Drilling Completed: 31/10/81
Inclination:
Azimuth:
Standing Water Level: 5.4

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: 150
Core Diameter:
Cased Depths:
Core Barrel:

Available Data: Gamma Logs
Density Logs
Resistivity Logs
Caliper Logs

Drill Bits: Blades
Rollers

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

EL2080 LAUNCESTON. R0014

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082

REPORT TC14-01

THIESS COAL SYSTEM

PAGE 2 22/ 6/82 10:12:28

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STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.80	0.80	SAND	Silty, clayey, medium to dark brown, medium dense, non-plastic.
					2.30	1.50	CLAY	Gravelly, silty, mottled grey - red, firm, high plasticity (clay), iron oxide, secondary, staining; CLAY CONTAINS BUCKSHOT GRAVEL
					5.30	3.00	CLAY	Mottled grey - purple, firm, high plasticity (clay); Additional features include: yellow.
					5.70	0.40	INFERIOR LIGNITE	Clayey, humified, medium to dark black - brown, firm, friable.
					6.30	0.60	INFERIOR LIGNITE	Clayey, humified, medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown - black, firm, high plasticity (organic).
					6.75	0.45	CLAY	Silty, medium to dark khaki - brown, soft, low plasticity (clay).
					8.00	1.25	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 50:50. INFERIOR LIGNITE: clayey, humified, medium to dark black - brown, firm, friable; LIGNEOUS CLAY: medium to dark brown - black, firm, high plasticity (organic).
					10.60	2.60	CLAY	Light to medium brown, firm, high plasticity (clay); Bands include: CLAY, light to medium grey - brown, firm, high plasticity (clay).
					12.75	2.15	INFERIOR LIGNITE	Humified, clayey, medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic);
								ANOMOLOUS GAMMA VS DENSITY LOGS. GAMMA *
								LOG INDICATES LIGNITE PRESENT, LIGNITE * LOGGED ON SITE, DENSITY LOG SHOWS NO * LIGNITE.
					14.35	1.60	CLAY	Light to medium brown, firm, high plasticity (clay).

EL2080 LAUNCESTON. R0014

033

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					15.40	1.05	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay), common woody fragments.
					16.80	1.40	CLAY	Light to medium grey - brown, firm, low plasticity (clay), common ligneous fragments.
					17.70	0.90	CLAY	Ligneous, medium to dark brown - grey, firm, high plasticity (clay).
					19.80	2.10	CLAY	Silty, light grey - brown, soft, high plasticity (clay); WITH SOME SAND
					20.00	0.20	SIDERITE	Light grey - brown, extremely high strength, tough.
					21.35	1.35	CLAY	Quartzose, sandy, light white - grey, very soft, low plasticity (clay), very fine grained, well sorted, rounded; Additional features include: silty.
					26.00	4.65	SAND	Quartzose, clayey, light white - grey, very soft, non-plastic, fine grained, uniform, well sorted, rounded, equant; Additional features include: silty.
					26.30	0.30	SIDERITE	Silicified, light grey - brown, extremely high strength, tough.
					27.50	1.20	SAND	Silty, clayey, light grey - brown, high strength, tough, siderite, secondary, cement; Bands include: SAND, silty, clayey, light grey - brown, low strength, brittle, siderite, secondary, cement.
					28.40	0.90	SAND	Silty, clayey, light white - grey, medium dense, non-plastic; Additional features include: quartzose.
					28.65	0.25	SAND	Silty, clayey, light grey - brown, high strength, tough, siderite, secondary, cement.
					29.80	1.15	SAND	Silty, clayey, light white - grey, medium dense, non-plastic.

EL2080 LAUNCESTON. R0014

084

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LAUNCESTON.

GEOLOGICAL LOG REPORT

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					30.10	0.30	SAND	Silty, clayey, light grey - brown, high strength, brittle, siderite, secondary, cement; CHANGE TO ROLLER BIT AT 27M. CHANGE TO * BLADE BIT AT 33M DUE TO ROLLER BIT NOT * CUTTING CHIPS THROUGH SOFT STRATA.
					31.75	1.65	SILT	Sandy, clayey, light white - grey, medium dense, non-plastic, very fine grained, poorly sorted, well rounded, equant; Additional features include: fine grained, rounded.
					32.60	0.85	INFERIOR LIGNITE	Humified, dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, high plasticity (organic).
					36.70	4.10	CLAY	Carbonaceous, silty, medium to dark brown - grey, firm, high plasticity (clay).
					37.20	0.50	INFERIOR LIGNITE	Sandy, medium to dark black - brown, firm, friable.
					37.80	0.60	LIGNITE	Dark black - brown, firm, friable.
					38.20	0.40	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
					38.50	0.30	INFERIOR LIGNITE	Sandy, medium to dark black - brown, firm, friable.
					39.40	0.90	CLAY	Silty, light to medium brown, soft, high plasticity (clay).
					40.20	0.80	INFERIOR LIGNITE	Medium to dark black - brown, firm, friable; Bands include: LIGNITE, dark black - brown, firm, friable.
					40.60	0.40	CLAY	Silty, light to medium brown, soft, high plasticity (clay).
					41.30	0.70	INFERIOR LIGNITE	Dark black - brown, firm, friable.
					41.70	0.40	LIGNITE	Dark black - brown, firm, friable.

EL2080 LAUNCESTON. R0014

080

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					42.30	0.60	INFERIOR LIGNITE	Medium to dark black - brown, firm, friable; GEOPHYSICAL LOG SHOWS ANOMOLOUS GAMMA * DENSITY RESPONSE AS FOR ABOVE LIGNEOUS * HORIZON. LITHOLOGIES WERE LOGGED AS * SANDS WITH COMMON WOODY AND LIGNEOUS * MATERIAL. SUBSTITUTE WOODY OR LIGNEOUS * SAND FOR LIGNITES.
					50.90	8.60	SILT	Clayey, sandy, light to medium brown - grey, medium dense, non-plastic, common woody fragments; Additional features include: common ligneous fragments; Bands include: CLAY, carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments; Bands include: CLAY, silty, sandy, light to medium brown - grey, soft, high plasticity (clay).
					51.20	0.30	SIDERITE	Light brown - grey, high strength, brittle.
					55.10	3.90	CLAY	Light white - grey, firm, high plasticity (clay).
					55.80	0.70	LIGNITE	Humified, gelatinous, dark brown - black, soft.
					56.90	1.10	INFERIOR LIGNITE	Humified, gelatinous, dark brown - black, soft.
					57.40	0.50	CLAY	Silty, light brown - grey, soft, high plasticity (clay).
					57.95	0.55	CLAY	Carbonaceous, medium to dark brown, soft, high plasticity (clay), common woody fragments.
					61.75	3.80	CLAY	Silty, light brown - grey, soft, high plasticity (clay).
					62.30	0.55	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (clay).
					62.80	0.50	CLAY	Carbonaceous, medium to dark brown, soft, high plasticity (clay), common woody fragments.
					63.30	0.50	LIGNEOUS CLAY	Medium to dark brown - black, firm, friable.
					64.30	1.00	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (organic); Bands include: CLAY, carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					65.20	0.90	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (organic); Bands include: CLAY, carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments; Bands include: INFERIOR LIGNITE, clayey, medium to dark brown - black, firm, friable.
					65.70	0.50	INFERIOR LIGNITE	Clayey, medium to dark brown - black, firm, friable.
					66.20	0.50	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (clay).
					67.80	1.60	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments.
					69.90	2.10	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (organic); Bands include: CLAY, carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments.
					70.55	0.65	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments.
					71.50	0.95	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (organic); Bands include: CLAY, carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments.
					72.80	1.30	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments.
					74.85	2.05	CLAY	Light to medium grey - brown, soft, high plasticity (clay).
					75.40	0.55	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (organic).
					75.80	0.40	CLAY	Carbonaceous, medium to dark brown - grey, soft, high plasticity (clay), common woody fragments.
					76.30	0.50	LIGNEOUS CLAY	Medium to dark brown, soft, high plasticity (organic).
					80.00	3.70	CLAY	Carbonaceous, medium to dark brown, firm, high plasticity (organic), common woody fragments; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, high plasticity (organic).

 END OF BORE AT 80.00 m
