

REPORT TOLA-01  
LAUNCESTON.

THIERS COAL SYSTEM  
GEOLOGICAL LOG REPORT

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ATR EL2080 TELEMET 0000  
LAUNCESTON

077

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EL2080 LAUNCESTON, R0013  
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Eastings: 492720.000  
Northings: 5409000.000  
Grid Type: Australian Marring Grid  
Accuracy: Approximate  
Gri: 150.00  
Datum: Approximate Level - Not Surveyed  
Sheet Reference:  
Sheet Index:  
Total Depth: 20.00  
Drilling Commenced: 28/10/81  
Drilling Completed: 30/10/81  
Inclination:  
Azimuth:  
Standing Water Level:

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

Counts:  
Perish:  
Partion:

Plus Bertha:  
Hole Diameter: 150  
Core Diameter:  
Cased Bertha:  
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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## 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
QA					1.50	1.50	SAND	Silty; clayey; medium to dark brown; weathered; soft; non-plastic; fine and medium grained; well sorted; rounded.
QA					2.20	0.70	CLAY	Silty; medium to dark brown - yellow; weathered; firm; high plasticity (clay).
QA					3.15	0.95	CLAY	Sandy; quartzose; medium to dark orange; weathered; medium dense; non-plastic; fine and medium grained; well sorted; rounded; iron oxide; cement; Bands include: CLAY; sandy; quartzose; medium to dark orange; weathered; low strength; brittle; fine and medium grained; well sorted; rounded; iron oxide; cement; Bands include: CLAY; sandy; quartzose; medium to dark orange; weathered; firm; friable; fine and medium grained; well sorted; rounded; iron oxide; cement.
QA					3.80	0.65	SAND	Quartzose; clayey; light to medium orange - yellow; weathered; medium dense; non-plastic;  BECOMING MOTTLED CREAM-YELLOW *  TOWARDS BASE
QA					4.40	0.60	CLAY	Sandy; quartzose; medium to dark orange; weathered; firm; low plasticity (clay).
QA					5.45	1.05	SAND	Quartzose; clayey; light to medium orange - yellow; weathered; medium dense; non-plastic; Bands include: CLAY; sandy; quartzose; medium to dark orange; weathered; firm; low plasticity (clay).
QA					6.90	1.45	CLAY	Sandy; quartzose; medium to dark orange; weathered; firm; low plasticity (clay); Bands include: SAND; quartzose; clayey; light to medium orange - yellow; weathered; medium dense; non-plastic.
QA					7.40	0.50	SAND	Quartzose; clayey; light to medium orange - yellow; weathered; medium dense; non-plastic.
QA					8.40	1.00	CLAY	Silty; mottled orange - yellow; weathered; soft; high plasticity (clay); Additional features include: sres.
QA					8.95	0.55	CLAY	Mottled orange - yellow; soft; high plasticity (clay); Additional features include: sres.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
QA					10.65	1.70	CLAY	Silty; mottled orange - yellow; soft; high plasticity (clay); Additional features include: grey.
QA					12.05	1.40	SAND	Clayey; quartzose; light to medium orange - yellow; soft; non-plastic.
QA					12.40	0.35	CLAY	Sandy; quartzose; light to medium orange - yellow; firm; high plasticity (clay).
QA					12.85	0.45	SAND	Clayey; quartzose; light to medium orange - yellow; soft; non-plastic.
QA					14.20	1.35	CLAY	Mottled orange - yellow; firm; high plasticity (clay); Additional features include: grey.
TE					15.50	1.30	CLAY	Carbonaceous; medium to dark brown; soft; high plasticity (clay).
					16.70	1.20	LIGNITE	Dark black - brown; firm; friable.
					17.45	0.75	CLAY	Carbonaceous; medium to dark brown; soft; high plasticity (clay).
					18.40	0.95	LIGNITE	Dark black - brown; firm; friable.
					19.10	0.70	CLAY	Ligneous; medium to dark brown - grey; soft; high plasticity (clay).
					19.90	0.80	INFERIOR LIGNITE	Medium to dark black - brown; firm; friable;
								ANOMOLOUS GAMMA VS DENSITY PLOTS ON *
								GEOPHYSICAL LOG TOP TWO SPLITS MAY BE * OXIDIZED LIGNITE-LIGNITE LOGGED WHEN * IN FIELD *
					22.80	2.90	CLAY	Carbonaceous; medium to dark brown; firm; high plasticity (clay); gradational base; occasional ligneous wisps; Bands include: CLAY; carbonaceous; light to medium brown - grey; firm; high plasticity (clay).
					26.70	3.90	CLAY	Carbonaceous; light to medium brown - grey; firm; high plasticity (clay); common woody fragments; Additional features include: occasional ligneous fragments; Bands include: CLAY; light brown - grey; soft; high plasticity (clay); common woody fragments.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					27.45	0.75	SAND	Light grey - brown; firm; friable; siderite, secondary, cement; Bands include: SAND; light grey - brown; low strength; brittle; siderite, secondary, cement.
					27.90	0.45	SIDERITE	Silicified; light grey - brown; high strength; tough; CHANGE TO ROLLER BIT 27.45M * CHANGE TO BLADE BIT 31M
					30.60	2.70	CLAY	Light grey - white; firm; high plasticity (clay).
					31.10	0.50	INFERIOR LIGNITE	Medium to dark brown - black; firm; friable.
					32.00	0.90	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (arsenic).
					35.90	3.90	CLAY	Light grey - white; soft; high plasticity (clay).
					36.30	0.40	CLAY	Carbonaceous; medium to dark brown; firm; low plasticity (arsenic).
					36.70	0.40	CLAY	Light grey - white; soft; high plasticity (clay).
					37.20	0.50	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable.
					38.30	1.10	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (arsenic); Bands include: INFERIOR LIGNITE; clayey; medium to dark brown; firm; friable.
					40.10	1.80	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay).
					41.70	1.60	CLAY	Light grey - white; soft; high plasticity (clay).
					43.30	1.60	SAND	Quartzose; silty; light to medium grey; medium dense; non-plastic; common woody fragments.
					44.80	1.50	NO RECORD	DISCRETE DOLERITE BOULDERS; COBBLES; GRAVEL TO 44.8 M. *

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					57.50	12.70	SAND	Quartzose, clayey, light to medium brown, medium dense, non-plastic, occasional woody fragments; DOLERITE GRAVEL AND CORBLE HORIZONS.
					58.70	1.20	SAND	Clayey, gravelly, light to medium grey - brown, soft, non-plastic, fine and medium grained; DOLERITE GRAVEL COMMON
					60.40	1.70	CLAY	Sandy, light to medium grey, soft, non-plastic.
					61.50	1.10	SAND	Clayey, gravelly, light to medium grey, medium dense, non-plastic, fine and medium grained; DOLERITE GRAVEL
					66.70	5.20	CLAY	Sandy, light to medium grey, soft, non-plastic; Bands include: SAND, clayey, light to medium grey, medium dense, non-plastic.
					73.20	6.50	SAND	Clayey, light to medium grey, medium dense, non-plastic, fine and medium grained.
					80.00	6.80	CLAY	Sandy, light to medium grey, soft, non-plastic, fine and medium grained.

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END OF BORE AT 80.00 m  
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