

REPORT TC14-01  
LAUNCESTON.

THIESS COAL SYSTEM  
GEOLOGICAL LOG REPORT

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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
					0.30	0.30	SILT	Sandy, medium to dark brown; medium dense; non-plastic; common woody fragments.
					1.80	1.50	CLAY	Sandy; mottled buff - orange; firm; low plasticity (clay); WITH A TRACE OF GRAVEL
					1.90	0.10	GRAVEL	Medium to dark red - purple; medium dense; non-plastic; BUCKSHOT/IRONSTONE
					3.50	1.60	CLAY	Silty; mottled yellow - grey; firm; low plasticity (clay); Additional features include: sink; WITH STIFF LOW PLASTICITY BANDS
					3.90	0.40	IRONSTONE - UN-DIFFERENTIATED	Medium to dark brown - yellow; low strength; brittle; CONCRETIONARY IRONSTONE; FERRICRETE
					5.00	1.10	CLAY	Kaolinitic; mottled grey - yellow; firm; high plasticity (clay); gradational base.
					7.00	2.00	CLAY	Silty; kaolinitic; mottled buff - grey; stiff; low plasticity (clay); Additional features include: yellow.
					9.35	2.35	CLAY	Light brown - grey; firm; high plasticity (clay).
					10.20	0.85	LIGNITE	Humified; woody textured; medium to dark black - brown; firm; friable.
					10.60	0.40	INFERIOR LIGNITE	Humified; woody textured; medium to dark brown; firm; friable.
					11.70	1.10	LIGNITE	Humified; woody textured; medium to dark black - brown; firm; friable; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; low plasticity (argonic).

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					0.30	0.30	SILT	Sandy, medium to dark brown, medium dense, non-plastic, common woody fragments.
					1.80	1.50	CLAY	Sandy, mottled buff - orange, firm, low plasticity (clay); WITH A TRACE OF GRAVEL
					1.90	0.10	GRAVEL	Medium to dark red - purple, medium dense, non-plastic; BUCKSHOT/IRONSTONE
					3.50	1.60	CLAY	Silty, mottled yellow - grey, firm, low plasticity (clay); Additional features include: pink; WITH STIFF LOW PLASTICITY BANDS
					3.90	0.40	IRONSTONE - UN-DIFFERENTIATED	Medium to dark brown - yellow, low strength, brittle; CONCRETIONARY IRONSTONE; FERRICRETE
					5.00	1.10	CLAY	Kaolinitic, mottled grey - yellow, firm, high plasticity (clay); nodular base.
					7.00	2.00	CLAY	Silty, kaolinitic, mottled buff - grey, stiff, low plasticity (clay); Additional features include: yellow.
					9.35	2.35	CLAY	Light brown - grey, firm, high plasticity (clay).
					10.20	0.85	LIGNITE	Humified, woody textured, medium to dark black - brown, firm, friable.
					10.60	0.40	INFERIOR LIGNITE	Humified, woody textured, medium to dark brown, firm, friable.
					11.70	1.10	LIGNITE	Humified, woody textured, medium to dark black - brown, firm, friable; Bands include: LIGNEDUS CLAY, medium to dark brown, firm, low plasticity (argonic).

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					12.20	0.50	INFERIOR LIGNITE	Humified, medium to dark brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
					12.95	0.75	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic).
					14.00	1.05	INFERIOR LIGNITE	Humified, gelatinous, medium to dark brown, soft.
					14.20	0.20	INFERIOR LIGNITE	Humified, woody textured, medium to dark brown, firm, friable.
					14.40	0.20	LIGNITE	Humified, woody textured, medium to dark black - brown, firm, friable.
					14.70	0.30	INFERIOR LIGNITE	Humified, woody textured, medium to dark brown, firm, friable.
					15.50	0.80	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic); Bands include: INFERIOR LIGNITE, humified, clayey, medium to dark brown, firm, friable; Bands include: CLAY, carbonaceous, medium to dark grey - brown, firm, high plasticity (clay); common ligneous wisps.
					16.05	0.55	INFERIOR LIGNITE	Humified, medium to dark brown - black, firm, friable.
					17.10	1.05	LIGNITE	Humified, dark black - brown, firm, friable; Bands include: INFERIOR LIGNITE, clayey, medium to dark brown - black, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (organic).
					17.55	0.45	INFERIOR LIGNITE	Medium to dark brown - black, firm, friable.
					17.95	0.40	LIGNITE	Humified, dark black - brown, firm, friable.
					18.55	0.60	LIGNEOUS CLAY	Humified, medium to dark brown, firm, low plasticity (organic); Bands include: CLAY, carbonaceous, medium to dark grey - brown, firm, high plasticity (clay).
					19.00	0.45	INFERIOR LIGNITE	Medium to dark brown - black, firm, friable.
					19.30	0.30	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
					21.10	1.80	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 80:20. INFERIOR LIGNITE: humified, dark black - brown, firm, friable; LIGNEOUS CLAY: medium to dark brown, firm, low plasticity (ordonic); Bands include: INFERIOR LIGNITE, humified, clayey, medium to dark brown, firm, friable.
					21.75	0.65	INFERIOR LIGNITE	Clayey, medium to dark brown, firm, friable.
					22.80	1.05	CLAY	Carbonaceous, medium to dark brown - grey, firm, high plasticity (clay); abundant ligneous wisps; Bands include: LIGNITE, medium to dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (ordonic).
					24.10	1.30	LIGNITE	Humified, dark black - brown, firm, friable; Bands include: LIGNEOUS CLAY, medium to dark brown, firm, low plasticity (ordonic).
					25.00	0.90	LIGNITE and LIGNEOUS CLAY	Interbedded 80:20. LIGNITE: humified, dark black - brown, firm, friable; LIGNEOUS CLAY: medium to dark brown, firm, low plasticity (ordonic).
					25.70	0.70	INFERIOR LIGNITE	Dark brown, firm, friable.
					26.35	0.65	LIGNITE	Humified, dark black - brown, firm, friable.
					26.80	0.45	INFERIOR LIGNITE	Dark brown, firm, friable.
					29.85	3.05	SAND	Clayey, ligneous, medium to dark brown, medium dense, non-plastic, fining upwards; abundant woody fragments; Additional features include: quartzose, abundant ligneous wisps; Bands include: CLAY, carbonaceous, medium to dark brown - grey, firm, high plasticity (clay); common ligneous wisps; Bands include: CLAY, light to medium grey - brown, firm, high plasticity (clay).
					30.30	0.45	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (ordonic).
					30.90	0.60	INFERIOR LIGNITE	Dark brown, firm, friable.
					31.40	0.50	LIGNITE	Humified, dark black - brown, firm, friable.

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					33.80	2.40	INFERIOR LIGNITE	Dark brown; firm; friable; Bands include: LIGNEOUS CLAY, medium to dark brown; firm; low plasticity (argenic); Bands include: CLAY, carbonaceous, medium to dark brown - grey; firm; high plasticity (clay).
					36.85	3.05	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay).
					37.30	0.45	SAND	Ligneous; quartzose; medium to dark brown; medium dense; non-plastic.
					38.20	0.90	INFERIOR LIGNITE	Sandy; quartzose; medium to dark brown; firm; friable; Additional features include: humified; clauveu.
					38.55	0.35	CLAY	Medium to dark brown - grey; firm; high plasticity (clay).
					40.20	1.65	INFERIOR LIGNITE	Humified; clauveu; medium to dark brown; firm; friable; Bands include: CLAY, carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); common woody fragments; Bands include: LIGNEOUS CLAY; medium to dark brown; firm; low plasticity (argenic).
					47.20	7.00	CLAY	Carbonaceous; medium to dark brown; firm; high plasticity (clay); gradational base; common woody fragments; Additional features include: abundant ligneous wisps; Bands include: CLAY; ligneous; medium to dark brown; firm; low plasticity (clay); Bands include: INFERIOR LIGNITE; humified; clauveu; medium to dark brown; firm; friable.
					47.85	0.65	CLAY	Light to medium grey - brown; firm; high plasticity (clay).
					49.60	1.75	CLAY	Carbonaceous; medium to dark brown; firm; high plasticity (clay).
					60.30	10.70	SAND	Quartzose; light to medium grey; medium dense; non-plastic; fine and medium grained; poorly sorted; subrounded; equant; fining upwards; common woody fragments; Additional features include: rounded; common ligneous 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
					62.80	2.50	SAND	Quartzose; light to medium grey; medium dense; non-plastic; fine and medium grained; poorly sorted; subrounded; equant; coarsening upwards; common woody fragments; Additional features include: rounded; common lenticular fragments.
					63.50	0.70	CLAY	Light to medium brown - grey; firm; high plasticity (clay); gradational base.
					67.50	1.00	SAND	Quartzose; woody textured; light to medium grey; medium dense; non-plastic; fine and medium grained; abundant lenticular fragments; WOOD NOT HUMIFIED; FIBROUS TEXTURE
					69.80	2.30	SAND	Quartzose; clayey; light to medium grey; medium dense; non-plastic; fine grained.
					70.90	1.10	SAND	Quartzose; woody textured; light to medium grey; medium dense; non-plastic; fine and medium grained.
					71.14	0.24	LIGNITE	Woody textured; medium to dark brown; firm; friable; fibrous.
					72.15	1.01	SIDERITE	Light grey; high strength; tough.
					80.00	7.85	SAND	Quartzose; clayey; light to medium grey; medium dense; non-plastic; fine grained.
----- END OF BORE AT					80.00 m	-----		

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