

REPORT: TD14-01
LAUNCESTON.

THIERS COAL SYSTEM
GEOLOGICAL LOG REPORT

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Eastings: 597500.000
Northings: 5403500.000
Grid Type: Australian Moppins Grid
Accuracy: Approximate
Gri: 155.00
Datum: Approximate Level - Not Surveyed
Sheet Reference:
Sheet Index:
Total Depth: 49.40
Drilling Commenced: 16/11/81
Drilling Completed: 18/11/81
Inclination:
Azimuth:
Standing Water Level:

Logging Organisation: CSR Exploration and Evaluation Group
Logged By: ELLHINDS
Drilling Contractor:
Geophysical Logging: Murdoch Geophysics

County:
Parish:
Portion:

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

Available Data: Gamma Loss
Density Loss
Resistivity Loss
Caliper Loss

Drill Bits: Blades
Rollers

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
				R	2.00	2.00	SILT	Clayey; humified; medium to dark red - brown.
				R	4.30	2.30	CLAY	Silty; mottled blue - grey; firm; Additional features include: brown - yellow.
				R	9.10	4.80	CLAY	Silty; mottled blue - grey; firm.
				R	9.60	0.50	LIGNEOUS CLAY	Medium to dark brown.
				R	10.40	0.80	LIGNITE	Medium to dark black - brown.
				R	16.00	5.60	CLAY	Mottled blue - grey.
				R	21.00	5.00	CLAY	Light to medium brown - grey.
				C	21.50	0.50	CLAY	Light to medium brown - grey.
				C2620	22.00	0.50	INFERIOR LIGNITE	Clayey; medium to dark brown - black.
				C2620	22.20	0.20	INFERIOR LIGNITE	Clayey; medium to dark brown - black; Bands include: LIGNEOUS CLAY; medium to dark brown.
				C2620	22.70	0.50	INFERIOR LIGNITE	Clayey; medium to dark brown - black.
				C2620	23.00	0.30	LIGNEOUS CLAY	Medium to dark brown; Bands include: INFERIOR LIGNITE; clayey; medium to dark brown - black.
				C2621	23.40	0.40	LIGNEOUS CLAY	Medium to dark brown; Bands include: INFERIOR LIGNITE; clayey; medium to dark brown - black.
				C2621	24.20	0.80	INFERIOR LIGNITE	Clayey; medium to dark brown - black; Bands include: LIGNEOUS CLAY; medium to dark brown.
				C2622	25.00	0.80	LIGNEOUS CLAY	Medium to dark brown.
				C2623	25.30	0.30	LIGNEOUS CLAY	Medium to dark brown.
				C2623	25.76	0.46	INFERIOR LIGNITE	Clayey; medium to dark brown - black.
				C2623	26.10	0.34	LIGNEOUS CLAY	Medium to dark brown.
				C2623	26.45	0.35	INFERIOR LIGNITE	Clayey; medium to dark brown - black.
				C	26.60	0.15	INFERIOR LIGNITE	Clayey; medium to dark brown - black.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
					27.60	1.00	CLAY	Light to medium grey.
				C	28.20	0.60	CLAY	Carbonaceous; light to medium grey - brown.
				C2624	28.26	0.06	CLAY	Carbonaceous; light to medium grey - brown; firm; low plasticity (clay); good core - unbroken; common lissaceous wisps.
				C2624	28.50	0.24	CLAY	Carbonaceous; lissaceous; medium to dark brown; firm; low plasticity (clay); good core - unbroken; gradational base; common lissaceous wisps; Bands include: CLAY; carbonaceous; lissaceous; medium to dark brown; stiff; low plasticity (clay); good core - unbroken; common lissaceous wisps.
				C2624	28.80	0.30	CLAY	Carbonaceous; light to medium grey - brown; stiff; low plasticity (clay); good core - unbroken; gradational base; common lissaceous wisps.
				C2624	28.95	0.15	INFERIOR LIGNITE	Clayey; dark brown - black; firm; friable; good core - unbroken.
				C2624	29.02	0.07	INFERIOR LIGNITE	Clayey; dark brown - black; firm; low plasticity (ardanic); good core - unbroken; fissile; SOME BRIGHT BANDS; HIGHER CLAY CONTENT * THAN PREVIOUS UNIT
				C2624	29.49	0.47	CLAY	Lissaceous; medium to dark brown; firm; low plasticity (clay); good core - unbroken; rare resin addresates.
				C2624	29.54	0.05	INFERIOR LIGNITE	Clayey; medium to dark black - brown; stiff; low plasticity (ardanic); good core - unbroken.
					31.00	1.46	CORE LOSS	
				C2614	31.13	0.13	INFERIOR LIGNITE	Clayey; medium to dark black - brown; firm; friable; good core - unbroken; gradational base; INCREASED CLAY CONTENT TOWARDS BASE
				C2614	31.18	0.05	LISSEOUS CLAY	Medium to dark brown - black; firm; low plasticity (ardanic); good core - unbroken; sharp irregular base.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2614	31.23	0.05	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; sharp planar base; beds dip at 10 degrees; occasional ligneous wisps.
				C2614	31.30	0.07	CLAY	Ligneous; medium to dark brown; firm; low plasticity (ordonic); good core - unbroken; gradational base; occasional ligneous wisps.
				C2614	31.36	0.06	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; sharp irregular base.
				C2614	31.44	0.08	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (ordonic); good core - unbroken; gradational base; abundant ligneous wisps.
				C2614	31.64	0.20	INFERIOR LIGNITE and LIGNEOUS CLAY	Interbedded 60:40. INFERIOR LIGNITE: clayey; medium to dark black - brown; firm; friable; good core - unbroken; sharp planar base; beds dip at 05 degrees; LIGNEOUS CLAY: medium to dark brown; firm; high plasticity (ordonic); good core - unbroken.
				C2614	31.72	0.08	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; gradational base; rare resin addrestes; Additional features include: common ligneous wisps; INCREASED CARBON CONTENT TOWARDS BASE
				C2614	31.80	0.08	LIGNEOUS CLAY	Medium to dark brown; firm; high plasticity (ordonic); good core - unbroken; occasional resin addrestes; Additional features include: common ligneous wisps; LOW STRENGTH CLAY; CRUMBLES READILY * RELATIVELY HIGH LIGNEOUS CONTENT
				C2614	31.98	0.18	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken; gradational base; occasional resin addrestes; Additional features include: common ligneous wisps.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2614	32.04	0.06	CLAY	Carbonaceous; light to medium brown - grey; firm; high plasticity (clay); good core - unbroken; stratifoliated base; occasional ligneous wisps; INCREASED CARBON CONTENT TOWARDS BASE
				C2614	32.07	0.03	INFERIOR LIGNITE	Clayey; medium to dark black - brown; firm; friable; good core - unbroken; stratifoliated base; HIGHER CLAY CONTENT THAN STRATIGRAPH- ICALLY LOWER UNIT.
				C2614	32.15	0.08	INFERIOR LIGNITE	Clayey; dark black - brown; firm; friable; good core - unbroken; stratifoliated base.
				C2614	32.26	0.11	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; good core - unbroken; stratifoliated base; INCREASED CLAY CONTENT OVER PREVIOUS UNIT
				C2614	32.34	0.08	CLAY and INFERIOR LIGNITE	Intermixed 70:30. CLAY: carbonaceous; light to medium brown; firm; low plasticity (clay); good core - unbroken; INFERIOR LIGNITE: clayey; medium to dark brown; firm; friable.
				C2615	32.60	0.26	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; common ligneous wisps.
				C2615	32.63	0.03	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (arsenic); good core - unbroken.
				C2615	32.67	0.04	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; low plasticity (arsenic); good core - unbroken; Rands include: INFERIOR LIGNITE; clayey; medium to dark brown; firm; friable.
				C2615	32.70	0.03	LIGNEOUS CLAY	Light to medium brown; firm; low plasticity (arsenic); good core - unbroken.
				C2615	32.97	0.27	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2615	33.09	0.12	LIGNEOUS CLAY	Medium to dark brown; firm; low plasticity (arsenic); good core - unbroken; common ligneous wisps.
				C2615	33.26	0.17	LIGNEOUS CLAY	Carbonaceous; medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken; gradational base; common woody fragments.
				C2615	33.40	0.14	LIGNEOUS CLAY	Light to medium brown; firm; low plasticity (arsenic); good core - unbroken; gradational base; common ligneous wisps.
				C2615	33.52	0.12	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; sharp irregular base; beds dip at 15 degrees.
				C2615	33.54	0.02	INFERIOR LIGNITE	Clayey; dark brown; firm; low plasticity (arsenic); good core - unbroken; gradational base; DECREASED CLAY CONTENT TOWARDS BASE.
				C2615	33.55	0.01	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; fissile; gradational base.
				C2615	33.58	0.03	INFERIOR LIGNITE	Clayey; dark brown; firm; friable; good core - unbroken; sharp irregular base; beds dip at 15 degrees.
				C2615	33.64	0.06	CLAY	Carbonaceous; medium to dark brown - grey; firm; high plasticity (clay); good core - unbroken; gradational base; occasional ligneous wisps.
				C2616	33.97	0.33	CLAY	Light to medium grey - brown; firm; low plasticity (clay); good core - unbroken; gradational base.
				C2616	34.19	0.22	CLAY	Light to medium brown - grey; firm; low plasticity (clay); good core - unbroken.
				C2616	34.60	0.41	CORE LOSS	
				C2616	34.62	0.02	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; common ligneous fragments.
				C2616	34.65	0.03	LIGNEOUS CLAY	Medium to dark brown - grey; firm; low plasticity (arsenic); good core - unbroken; occasional 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
				C2616	34.71	0.06	CLAY	Carbonaceous; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base; common ligenous wisps.
				C2616	35.43	0.72	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2616	35.86	0.43	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base; common bioturbation.
				C2616	35.98	0.12	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; gradational base.
				C2616	36.15	0.17	CLAY and INFERIOR LIGNITE	Interbedded 60:40. CLAY: carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; INFERIOR LIGNITE: clayey; medium to dark brown; firm; friable.
				C2616	36.30	0.15	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; gradational base; common woody fragments.
				C2616	36.98	0.68	CLAY	Carbonaceous; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base.
				C2616	37.02	0.04	CLAY	Carbonaceous; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; gradational base; common ligenous wisps.
				C2616	37.54	0.52	CLAY	Light to medium grey; firm; high plasticity (clay); good core - unbroken; occasional bioturbation? RARE CARBONACEOUS WISPS.
					37.60	0.06	CORE LOSS	
				C2617	38.01	0.41	CLAY	Light to medium grey; firm; expanding clay; good core - unbroken; gradational base; occasional bioturbation.
				C2617	38.35	0.34	CLAY	Carbonaceous; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken.

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STRAT NAME	SEO NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2617	38.54	0.19	CLAY	Interbedded 50:50; carbonaceous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; sharp irregular base; common ligneous fragments; Additional features include: occasional bioturbation; LIGNEOUS CLAY: medium to dark brown - black; firm; low plasticity (carbonic).
				C2617	38.72	0.18	CLAY	Carbonaceous; light to medium grey - brown; firm; high plasticity (clay); gradational base; common ligneous wisps.
				C2617	38.84	0.12	CLAY	Ligneous; medium to dark brown - grey; firm; high plasticity (clay); gradational base.
				C2617	38.97	0.13	CLAY	Carbonaceous; light to medium grey - brown; firm; high plasticity (clay); common ligneous wisps.
				C2617	39.39	0.42	INFERIOR LIGNITE and CLAY	Interbedded 90:10. INFERIOR LIGNITE: clayey; medium to dark black - brown; firm; friable; gradational base; common bioturbation; CLAY: carbonaceous; light to medium grey - brown; firm; high plasticity (clay).
				C2617	39.50	0.11	LIGNEOUS CLAY	Medium to dark brown - grey; firm; low plasticity (carbonic); rare resin addresates.
				C2617	39.61	0.11	CLAY	Carbonaceous; light to medium brown - grey; firm; low plasticity (clay); gradational base.
				C2617	39.71	0.10	INFERIOR LIGNITE	Clayey; medium to dark brown; firm; friable; rare resin addresates; RARE SANDY CLAYEY LENSES
				C2617	39.79	0.08	INFERIOR LIGNITE	Medium to dark black - brown; stiff; friable; common woody fragments.
				C2617	39.87	0.08	INFERIOR LIGNITE	Clayey; medium to dark black - brown; stiff; friable; gradational base; rare resin addresates; Additional features include: common woody fragments.
				C2617	39.92	0.05	INFERIOR LIGNITE	Woody textured; clayey; medium to dark brown - grey; firm; low plasticity (carbonic); good core - unbroken; gradational base.

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C2617	40.09	0.17	CLAY	Ligneous; medium to dark brown - grey; firm; low plasticity (clay); good core - unbroken; rare resin spherulites.
				C2619	40.20	0.11	CLAY	Carbonaceous; woody textured; light to medium brown; firm; low plasticity (clay); good core - unbroken; stratifoliated base.
				C2619	40.42	0.22	CLAY	Carbonaceous; light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; stratifoliated base; common woody wisps.
				C2619	40.60	0.18	CLAY	Ligneous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; stratifoliated base; common ligneous fragments.
				C2619	40.67	0.07	INFERIOR LIGNITE and INFERIOR LIGNITE	Interbedded 60:40. INFERIOR LIGNITE: clusev; medium to dark brown - black; firm; low plasticity (ordonic); good core - unbroken; INFERIOR LIGNITE: clusev; medium to dark brown; firm; low plasticity (ordonic).
				C2619	40.91	0.24	LIGNEOUS CLAY	Medium to dark black - brown; firm; high plasticity (ordonic); good core - unbroken; stratifoliated base; abundant clay; clasts; RARE ANGULAR PEBBLES
				C2619	40.95	0.04	INFERIOR LIGNITE	Clusev; medium to dark black - brown; firm; high plasticity (ordonic); good core - unbroken.
				C2619	41.05	0.10	CLAY	Ligneous; light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; stratifoliated base.
				C2619	41.14	0.09	CLAY	Light to medium brown - grey; firm; low plasticity (clay); good core - unbroken; sharp irregular base; beds dip at 05 degrees.
				C2619	41.16	0.02	LIGNEOUS CLAY	Medium to dark brown - black; firm; low plasticity (ordonic).
				C2619	41.23	0.07	INFERIOR LIGNITE	Clusev; medium to dark brown - black; firm; low plasticity (ordonic).
				C2619	41.29	0.06	INFERIOR LIGNITE	Medium to dark brown - black; firm; friable; Beds include: LIGNEOUS CLAY; light to medium brown - grey; firm; low 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
				C2619	41.32	0.03	INFERIOR LIGNITE	Clayey; medium to dark brown - black; firm; friable.
				C2619	41.35	0.03	LIGNEOUS CLAY	Medium to dark brown - black; firm; low plasticity (organic); common woody fragments.
				C2619	41.37	0.02	CLAY	Ligneous; light to medium brown; firm; low plasticity (clay); common woody fragments.
				C	42.99	1.62	CLAY	Light to medium grey; firm; low plasticity (clay); subfissile; rare resin assemblages; Additional features include: common bioturbation; RARE CARBONACEOUS WISPS
				C	43.60	0.61	CLAY	Light to medium grey - brown; firm; low plasticity (clay); good core - unbroken; abundant woody fragments.
				C	44.41	0.81	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; nodular base; rare resin assemblages; COMMON DISSEMINATED FINE GRAINED * CARBONACEOUS MATERIAL; SOME BRANCHES AND LOGS *
				C	45.14	0.73	CLAY	Light to medium grey - brown; firm; high plasticity (clay); good core - unbroken; LESS BROWN IN COLOR THAN OVERLYING * UNIT
				C	46.58	1.44	CLAY	Light to medium grey; firm; high plasticity (clay); good core - unbroken; TRACE OF CARBONACEOUS MATERIAL
				C	46.60	0.02	CORE LOSS	

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STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C	47.69	1.09	CLAY	Light to medium grey; firm; high plasticity (clay); good core - unbroken; occasional carbonaceous root traces; RARE SANDY CLASTS UP TO 2CM IN SIZE
				C	48.26	0.57	CLAY	Light to medium grey - brown; firm; high plasticity (clay).
				C	48.44	0.18	CLAY	Lignous; light to medium brown - grey; firm; low plasticity (clay).
				C	49.60	1.16	CLAY	Light to medium grey; firm; high plasticity (clay); RARE SANDY PODS AND LENSES

END OF CORE AT 49.60 m

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