

REPORT TC14-01

THIESS COAL SYSTEM

PAGE 189 11/11/82 15.44:14

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080  
LAUNCESTON

TENEMENT 2080

334

387261

\*\*\*\*\*  
EL2080 LAUNCESTON. C0071  
\*\*\*\*\*

Easting: 495700.000  
Northing: 5411200.000  
Grid Type: Australian Mapping Grid  
Accuracy: Approximate  
Crl: 150.00  
Datum: Approximate Level - Not Surveyed

Logging Organisation: CSR Exploration and Evaluation Group  
Logged By: ELLIS  
Drilling Contractor: Deadline Drilling  
Geophysical Logging: Century Geophysical Corp.

Sheet Reference:

County:

Sheet Index:

Parish:

Total Depth: 49.06

Portion:

Drilling Commenced: 10/04/82

Drilling Completed: 11/04/82

Inclination:

Plug Depths:

Azimuth:

Hole Diameter: 140

Standing Water Level:

Core Diameter: 100

Cased Depths:

Core Barrel: Triefus Triple Barrel

Available Data: Gamma Logs

Neutron Logs

Density Logs

Self Potential Logs

Resistivity Logs

Caliper Logs

Drill Bits: Blades

Tungsten Carbide

ALL ROCKS ARE FRESH UNLESS OTHERWISE INDICATED

EL2080 LAUNCESTON. C0071

628336

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	4.00	4.00	CLAY	Silty, mottled yellow - pink, firm, high plasticity (clay), common iron oxide, secondary, staining; Additional features include: grey, common manganese, secondary, staining.
				R	5.00	1.00	CLAY	Kaolinitic, light white - off white, firm, high plasticity (clay); SOME PRYL MOTTLING
				R	10.00	5.00	CLAY	Light brown - off white, firm, high plasticity (clay).
				R	10.50	0.50	CLAY	Light to medium brown, firm, high plasticity (clay).
				R	11.00	0.50	CLAY	Light to medium grey, firm, high plasticity (clay).
					<u>TOP OF SEAM PBI</u>		<u>11.00</u>	
		PBI		R	11.87	0.87	LIGNEDUS CLAY	Dark brown - black, firm, high plasticity (organic); Bands include: INFERIOR LIGNITE, woody textured, clayey, dark brown - black, firm, low plasticity (organic), fissile.
					<u>BASE OF SEAM PBI</u>		<u>11.87</u>	<u>0.87</u>
				C0179	11.97	0.10	CLAY	Mottled brown, firm, high plasticity (clay), good core - unbroken.
				C0179	12.03	0.06	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0179	12.22	0.19	CLAY	Mottled brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0179	12.28	0.06	CLAY	Mottled brown, firm, high plasticity (clay), good core - unbroken.
				C0179	12.29	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0179	12.32	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.

335

628337

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
				C0179	12.41	0.09	CLAY	Mottled brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0180	12.47	0.06	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0180	12.55	0.08	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0180	12.57	0.02	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0180	12.64	0.07	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken; Bands include: CLAY, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0180	12.67	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0180	12.78	0.11	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken; occasional ligneous wisps; Bands include: CLAY, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0180	12.87	0.09	CLAY	Light brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
				C0180	12.92	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0180	12.94	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0180	12.98	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0180	13.00	0.02	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0180	13.13	0.13	LIGNEOUS CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional bioturbation; Bands include: CLAY, mottled brown, firm, high plasticity (clay), good core - unbroken.

EL2080 LAUNCESTON C0071

387263

336

628338

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				CO180	13.26	0.13	LIGNEOUS CLAY	Silty, medium to dark brown, firm, high plasticity (organic), good core - unbroken, ligneous wisps.
				CO180	13.41	0.15	CLAY and CLAY	Interbedded 50:50. CLAY: light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				CO181	13.47	0.06	LIGNEOUS CLAY and CLAY	Interbedded 80:20. LIGNEOUS CLAY: medium to dark brown, firm, high plasticity (organic), good core - unbroken, sharp planar base, beds dip at 20 degrees; CLAY: light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				CO181	13.55	0.08	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
				CO181	13.58	0.03	INFERIOR LIGNITE	Woody textured, peaty, dark brown - black, firm, friable, good core - unbroken.
				CO181	13.73	0.15	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				CO181	13.87	0.14	LIGNEOUS CLAY and CLAY	Interbedded 80:20. LIGNEOUS CLAY: dark brown, firm, high plasticity (organic), good core - unbroken; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				CO181	13.98	0.11	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
				CO181	14.04	0.06	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken, gradational base.
				CO181	14.06	0.02	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
				TOP OF SEAM PB2		14.06		
	PB2			CO182	14.08	0.02	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.

337

628339

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080  
LAUNCESTON

TENEMENT 2080

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB2		C0182	14.11	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.12	0.01	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		PB2		C0182	14.14	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB2		C0182	14.16	0.02	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.17	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB2		C0182	14.18	0.01	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.18	0.00	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PB2		C0182	14.21	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB2		C0182	14.23	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.30	0.07	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB2		C0182	14.33	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
		PB2		C0182	14.35	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.36	0.01	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.41	0.05	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.47	0.06	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.

EL2080 LAUNCESTON, C0071

338  
387265

628340

REPORT TC14-01

THIASS COAL SYSTEM

PAGE 194 11/11/82 15:44:26

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080 TENEMENT 2080  
LAUNCESTON

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB2		C0182	14.52	0.05	LIGNEOUS CLAY and CLAY	Interbedded 70:30. LIGNEOUS CLAY: dark brown, firm, high plasticity (clay), good core - unbroken; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.55	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.57	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.58	0.01	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.60	0.02	CLAY	Ligneous, medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.62	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.70	0.08	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB2		C0182	14.71	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB2		C0182	14.74	0.03	LIGNEOUS CLAY	Dark brown, firm, coal cleat, high plasticity (clay), common, subvertical joints, vertical joints, good core - unbroken, abundant siderite, secondary, in cleat.
		PB2		C0182	14.83	0.09	CLAY	Ligneous, medium to dark brown - grey, firm, coal cleat, low plasticity (organic), common, subvertical joints, vertical joints, good core - unbroken, abundant siderite, secondary, in cleat.
		PB2		C0182	14.93	0.10	LIGNEOUS CLAY	Dark brown, firm, coal cleat, low plasticity (organic), common, subvertical joints, vertical joints, good core - unbroken, abundant siderite, secondary, in cleat.
								ABRGY CLAY LENSES COMMON
		PB2		C0182	15.00	0.07	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

EL2080 LAUNCESTON C0071

628341

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB2		C0182	15.04	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base.
		PB2		C0182	15.13	0.09	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
		PB2		C0182	15.15	0.02	LIGNITE	Woody textured, clayey, dark brown - black, firm, coal cleat, friable, common, subvertical joints, vertical joints, good core - unbroken, fissile, common siderite, secondary, in cleat.
		PB2		C0182	15.17	0.02	LIGNITE	Dark brown - black, firm, coal cleat, friable, common, subvertical joints, vertical joints, good core - unbroken, common siderite, secondary, in cleat.
		PB2		C0182	15.22	0.05	LIGNEOUS CLAY	Dark brown, firm, coal cleat, low plasticity (organic), common, subvertical joints, vertical joints, good core - unbroken, common siderite, secondary, in cleat.
		PB2		C0182	15.26	0.04	LIGNITE	Clayey, dark brown - black, firm, coal cleat, friable, common, subvertical joints, vertical joints, good core - unbroken, sharp oblique base, beds dip at 15 degrees, common siderite, secondary, in cleat.
		PB2		C0182	15.31	0.05	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
					BASE OF SEAM PB2	15.31	1.25	
				C0182	15.33	0.02	CLAY	Medium to dark brown - grey, slightly weathered, firm, high plasticity (clay), common, subvertical joints, vertical joints, good core - unbroken, gradational base.
				C0182	15.35	0.02	CLAY	Light to medium brown - grey, slightly weathered, firm, high plasticity (clay), common, subvertical joints, vertical joints, good core - unbroken.
				C0182	15.38	0.03	CLAY	Medium to dark brown, slightly weathered, firm, high plasticity (clay), common, subvertical joints, vertical joints, good core - unbroken.

EL2080 LAUNCESTON. C0071

340

387267

628342

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
				C0182	15.39	0.01	CLAY	Light to medium brown - grey, slightly weathered, firm, high plasticity (clay), common, subvertical joints, vertical joints, good core - unbroken, sharp planar base, beds dip at 05 degrees.
				C0182	15.44	0.05	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, subfissile, sharp oblique base, beds dip at 20 degrees.
				C0183	15.48	0.04	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0183	15.62	0.14	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0183	15.66	0.04	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				C0183	15.70	0.04	INFERTIGR LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, common bioturbation.
				C0183	15.76	0.06	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, gradational base.
				C0183	15.85	0.09	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 10 degrees.
				C0183	15.90	0.05	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, sharp oblique base, beds dip at 08 degrees.
				C0183	15.94	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, sharp irregular base, beds dip at 00 degrees.
				C0183	16.08	0.14	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.
				C0183	16.14	0.06	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0183	16.17	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.

EL2080 LAUNCESTON. C0071

341

628343

STRAT NAME	SEQ NO.	SEAM NAME	WRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0183	16.18	0.01	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0183	16.19	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0183	16.20	0.01	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0183	16.32	0.12	CLAY and CLAY	Interbedded 80:20. CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common bioturbation; CLAY: light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0183	16.35	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
				C0183	16.48	0.13	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, abundant bioturbation.
				C0183	16.52	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
					16.66	0.14	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, common bioturbation;
DRAPE STRUCTURE AROUND PLANT ROOT								
					TOP OF SEAM PB3		16.66	
		PB3		C0184	16.72	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.74	0.02	CLAY	Ligneous, dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.79	0.05	INFERIOR LIGNITE and CLAY	Interbedded 90:10. INFERIOR LIGNITE: clayey, dark brown, firm, low plasticity (organic), good core - unbroken; CLAY: light to medium green - brown, firm, high plasticity (clay), good core - unbroken.

342  
387269

343

REPORT TC14-01

THIESS COAL SYSTEM

PAGE 198 11/11/82 15:44:35

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
		PB3		C0184	16.81	0.02	CLAY	Light to medium brown - green, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
		PB3		C0184	16.83	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.86	0.03	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0184	16.91	0.05	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.94	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.98	0.04	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken.
		PB3		C0184	17.00	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	17.02	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB3		C0184	17.05	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0184	17.09	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0184	17.13	0.04	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.
		PB3		C0186	17.16	0.03	LIGNEOUS CLAY	Woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.20	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
		PB3		C0186	17.25	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.28	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.31	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

EL2080 LAUNCESTON. C0071

628345

STRAT NAME	SEQ NO.	SEAM NAME	WGRK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB3		C0184	16.81	0.02	CLAY	Light to medium brown - green, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
		PB3		C0184	16.83	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.86	0.03	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0184	16.91	0.05	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.94	0.03	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	16.98	0.04	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken.
		PB3		C0184	17.00	0.02	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0184	17.02	0.02	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB3		C0184	17.05	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0184	17.09	0.04	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0184	17.13	0.04	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.
		PB3		C0186	17.16	0.03	LIGNEOUS CLAY	Woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.20	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
		PB3		C0186	17.25	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.28	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.31	0.03	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.

345

REPORT TC14-01

THIESS COAL SYSTEM

PAGE 199 11/11/82 15:44:41

LAUNCESTON

GEOLOGICAL LOG REPORT

ATP EL2080 TENEMENT 2080  
LAUNCESTON

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB3		C0186	17.42	0.11	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.
		PB3		C0186	17.44	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.49	0.05	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken.
		PB3		C0186	17.52	0.03	LIGNEOUS CLAY	Medium to dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.56	0.04	LIGNEOUS CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.62	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.63	0.01	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0186	17.68	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0186	17.71	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0187	17.87	0.16	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, occasional resin aggregates.
		PB3		C0187	18.29	0.42	LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, occasional resin aggregates.
		PB3		C0187	18.38	0.09	LIGNITE	Clayey, dark brown - grey, firm, friable, good core - unbroken.
		PB3		C0188	18.49	0.11	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant ligneous wisps.
		PB3		C0188	18.52	0.03	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		PB3		C0188	18.74	0.22	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.

EL2080 LAUNCESTON. C0071

38727

628347

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB3		C0188	18.77	0.03	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		PB3		C0188	18.87	0.10	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		PB3		C0189	19.01	0.14	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		PB3		C0189	19.05	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0189	19.22	0.17	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		PB3		C0189	19.23	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0189	19.26	0.03	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB3		C0189	19.30	0.04	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		PB3		C0189	19.34	0.04	CLAY and LIGNITE	Interbedded 50:50. CLAY: medium to dark brown, firm, high plasticity (clay), good core - unbroken; LIGNITE: woody textured, clayey, dark brown, firm, friable, good core - unbroken.
		PB3		C0189	19.41	0.07	LIGNEOUS CLAY	Dark brown, stiff, high plasticity (clay), good core - unbroken.
		PB3		C0189	19.45	0.04	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0189	19.56	0.11	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant ligneous wisps.
		PB3		C0189	19.61	0.05	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, subfissile.
		PB3		C0190	19.97	0.36	CORE LOSS	
		PB3		C0190	20.04	0.07	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.

347

387273

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB3		C0190	20.07	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB3		C0190	20.14	0.07	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0190	20.19	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
		PB3		C0190	20.24	0.05	LIGNEOUS CLAY	Woody textured, dark brown, firm, low plasticity (organic), good core - unbroken, occasional resin aggregates.
		PB3		C0190	20.28	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common ligneous wisps.
		PB3		C0190	20.35	0.07	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, gradational base, occasional ligneous wisps.
		PB3		C0190	20.44	0.09	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		PB3		C0190	20.49	0.05	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps.
		PB3		C0190	20.60	0.11	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
		PB3		C0190	20.66	0.06	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB3		C0190	20.70	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
							LOOKS LIKE A ROOT ZONE	
		PB3		C0190	20.76	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, gradational base, abundant woody fragments.
							BASE OF SEAM PB3	20.76 4.10

628349

348

REPORT TC14-01

THIESS COAL SYSTEM

PAGE 202

11/11/82 15:44:50

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
				C0191	20.95	0.19	LIGNEOUS CLAY and INFERIOR LIGNITE	Intermixed 50:50. LIGNEOUS CLAY: dark brown, firm, low plasticity (organic), good core - unbroken; INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken.
				C0191	21.07	0.12	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken;  ROOTS COMMON
				C0191	21.34	0.27	INFERIOR LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken;  LOOKS LIKE LOG OF WOOD OR TREE ROOT
				C0191	21.38	0.04	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C0191	21.47	0.09	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
				C0191	21.56	0.09	CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken, common woody fragments; Additional features include: good core - unbroken, occasional resin aggregates.
					-----			
					TOP OF SEAM PB4		21.56	
					-----			
		PB4		C0192	21.67	0.11	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, occasional resin aggregates.
		PB4		C0192	21.75	0.08	INFERIOR LIGNITE	Clayey, woody textured, dark brown - grey, firm, low plasticity (organic), good core - unbroken.
		PB4		C0192	21.77	0.02	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
		PB4		C0192	21.94	0.17	LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken.
		PB4		C0192	22.00	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, common woody fragments.

EL2080 LAUNCESTON. C0071

628350

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PB4		C0192	22.06	0.06	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		PB4		C0192	22.10	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB4		C0192	22.14	0.04	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PB4		C0193	22.17	0.03	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken, fibrous.
		PB4		C0193	22.19	0.02	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PB4		C0193	22.71	0.52	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, occasional resin aggregates.
		PB4		C0193	22.72	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB4		C0193	23.05	0.33	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		PB4		C0193	23.07	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PB4		C0193	23.38	0.31	LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PB4		C0194	23.46	0.08	LIGNEOUS CLAY	Woody textured, dark brown, firm, low plasticity (organic), good core - unbroken, fibrous.
		PB4		C0194	23.49	0.03	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		PB4		C0194	23.56	0.07	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PB4		C0194	23.59	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common woody fragments;
							MARCASITE NODULES ABUNDANT	

349  
387275

628351

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
		PB4		C0194	23.89	0.30	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken, fibrous.
		PB4		C0194	23.92	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PB4		C0194	23.99	0.07	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
		PB4		C0194	24.03	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
-----								
BASE OF SEAM PB4					24.03	2.47		
-----								
					24.14	0.11	CORE LOSS	
				C0195	24.18	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.22	0.04	CLAY	Medium to dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.24	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0195	24.32	0.08	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C0195	24.35	0.04	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.38	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.39	0.01	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0195	24.41	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C0195	24.42	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.46	0.04	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.

EL2080 LAUNCESTON. C0071

350

628352

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
				C0195	24.54	0.08	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0195	24.60	0.06	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.68	0.08	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.74	0.06	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0195	24.80	0.06	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0195	24.83	0.03	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0195	24.87	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0195	24.91	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, sharp irregular base.
				C0196	25.05	0.14	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C0196	25.16	0.11	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, occasional ligneous fragments.
				C0196	25.25	0.09	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				C0196	25.30	0.05	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				C0196	25.35	0.05	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				C0196	25.36	0.01	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common bioturbation.
				C0196	25.41	0.05	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.

EL2080 LAUNCESTON. C0071

351

387277

628353

352

REPORT TC14-01

THIESS COAL SYSTEM

PAGE 206 11/11/82 15:45:02

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
				C0196	25.45	0.04	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant bioturbation.
				C0196	25.47	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
				C0196	25.52	0.05	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant bioturbation.
				C0196	25.56	0.04	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps; Additional features include: good core - unbroken, abundant bioturbation.
				C0197	25.73	0.17	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0197	25.79	0.06	CLAY	Interbedded 90:10; Bands include: *** ERROR TRANSLATING LEGEND FOR THIS DATA ***
				C0197	25.81	0.02	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0197	25.85	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0197	25.89	0.04	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0197	26.12	0.23	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C0197	26.19	0.07	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
				C0197	26.26	0.07	CLAY	Light to medium grey, firm, high plasticity (clay), good core - unbroken.
				C0197	26.73	0.47	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
				C0197	26.74	0.01	CLAY	Light to medium brown - grey, good core - unbroken, abundant woody fragments.

EL2080 LAUNCESTON. C0071

628354

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0197	26.74	0.00	CLAY	Light to medium brown - grey, good core - unbroken, abundant woody fragments; SIDERITE NODULES ABUNDANT, REPLACING WOOD
				C0197	26.77	0.03	LIGNEDUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, common bioturbation.
				C0197	26.78	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0197	26.81	0.03	CLAY and CLAY	Interbedded 80:20. CLAY: medium to dark brown, firm, high plasticity (clay), good core - unbroken; CLAY: light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0197	26.87	0.06	LIGNEDUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0197	26.88	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				R	29.00	2.12	NO RECORD	
				R	30.50	1.50	CLAY and CLAY	Interbedded 50:50. CLAY: light to medium brown - grey, firm, high plasticity (clay), common woody fragments; CLAY: silty, medium to dark brown - grey.
					TOP OF SEAM PC1		30.50	
		PC1	R		32.00	1.50	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay); Bands include: LIGNEDUS CLAY, dark brown - black, firm, low plasticity (organic).
		PC1	R		33.50	1.50	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), occasional woody fragments.
					BASE OF SEAM PC1		33.50	3.00

EL2080 LAUNCESTON. C0071

353  
387279

628355

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				R	34.00	0.50	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay); Bands include: CLAY, light to medium brown - grey, firm, high plasticity (clay).
				R	36.00	2.00	CLAY and LIGNEOUS CLAY	Interbedded 60:40. CLAY: light to medium brown - grey, firm, high plasticity (clay); LIGNEOUS CLAY: dark brown, firm, low plasticity (organic).
				R	36.93	0.93	CLAY	Light to medium brown, very soft, low plasticity (organic); Bands include: LIGNEOUS CLAY, dark brown, firm, low plasticity (organic).
				R	37.09	0.16	NO RECORD	
				C0198	37.30	0.21	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0198	37.57	0.27	CLAY	Light to medium brown - grey, firm, slickensides on fracture, high plasticity (clay), sparse, subhorizontal joints, oblique joints, good core - unbroken, occasional resin aggregates;
<b>ROOTS IN GROWTH POSITION</b>								
<b>SIDERITE REPLACEMENT OF WOOD</b>								
				C0198	37.61	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, sharp irregular base, occasional resin aggregates.
				C0198	37.63	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
					<b>TOP OF SEAM PC2</b>		<b>37.63</b>	
		PC2		C0198	37.68	0.05	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC2		C0198	37.69	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, occasional bioturbation.
		PC2		C0198	37.78	0.09	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common woody fragments; Additional features include: good core - unbroken, common resin aggregates.

35A

628356

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
		PC2		C0198	37.82	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments; Additional features include: good core - unbroken, occasional resin aggregates.
		PC2		C0198	37.86	0.04	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional ligneous wisps; Additional features include: good core - unbroken, rare resin aggregates.
		PC2		C0199	37.90	0.04	LIGNEOUS CLAY	Dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		PC2		C0199	38.29	0.39	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fibrous.
SIDERITE LENSES IN WOODY TEXTURE ZONE								
		PC2		C0200	38.34	0.05	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, abundant ligneous wisps.
		PC2		C0200	38.39	0.05	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PC2		C0200	38.44	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
		PC2		C0200	38.48	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
		PC2		C0200	38.55	0.07	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
		PC2		C0201	38.60	0.05	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
		PC2		C0201	38.62	0.02	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, low plasticity (organic), good core - unbroken.
		PC2		C0201	38.64	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PC2		C0201	38.69	0.05	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.

EL2080 LAUNCESTON. C0071

355

387281

628357

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
		PC2		C0201	38.71	0.02	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
		PC2		C0201	38.79	0.08	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, fibrous, occasional resin aggregates.
		PC2		C0201	38.85	0.06	LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken.
		PC2		C0201	38.87	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
		PC2		C0201	38.92	0.05	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken, abundant marcasite, secondary, nodules.
		PC2		C0201	39.04	0.14	LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, abundant resin aggregates; Additional features include: peaty.
		PC2		C0201	39.17	0.11	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments;
							SIDERITE REPLACING WOOD	
		PC2		C0201	39.23	0.06	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PC2		C0201	39.27	0.04	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
		PC2		C0201	39.30	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
		PC2		C0201	39.65	0.35	LIGNITE	Woody textured, clayey, dark brown, firm, friable, good core - unbroken; Additional features include: peaty, good core - unbroken.
							BASE OF SEAM PC2	
					39.65	2.02		
				C0202	39.76	0.11	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.

EL2080 LAUNCESTON. C0071

356

628358

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
				C0202	39.83	0.07	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant woody fragments; Additional features include: good core - unbroken, occasional resin aggregates.
				C0202	39.87	0.04	CLAY	Ligneous, medium to dark brown, firm, low plasticity (organic), good core - unbroken, subfissile, abundant woody fragments; Additional features include: good core - unbroken, occasional resin aggregates.
				C0202	39.98	0.11	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
				C0202	40.04	0.06	CLAY	Medium to dark grey - brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
				C0202	40.11	0.07	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
				C0202	40.12	0.01	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
				C0203	40.15	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0203	40.21	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken, occasional resin aggregates.
				C0203	40.24	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
				C0203	40.35	0.11	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, common resin aggregates.
				C0203	40.41	0.06	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), abundant woody fragments.
				C0203	40.61	0.20	CLAY	Medium to dark brown, firm, high plasticity (clay), abundant woody fragments; Additional features include: occasional resin aggregates.
				C0203	40.65	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), abundant woody fragments.

EL2080 LAUNCESTON. C0071

387283

357

628359

358

REPORT TC14-01

THIESS COAL SYSTEM

PAGE 212

11/11/82 15:45:28

LAUNCESTON.

GEOLOGICAL LOG REPORT

ATP EL2080  
LAUNCESTON

TENEMENT 2080

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0203	40.68	0.03	CLAY	Light to medium grey - brown, firm, high plasticity (clay), abundant woody fragments.
				C0203	40.79	0.11	INFERIOR LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, fibrous.
				C0203	40.88	0.09	CLAY and INFERIOR LIGNITE	Intermixed 30:70. CLAY: medium to dark brown, firm, high plasticity (clay); INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle.
				C0204	40.94	0.06	CLAY	Light to medium brown, stiff, high plasticity (clay), common woody fragments.
				C0204	41.14	0.20	CLAY and INFERIOR LIGNITE	Intermixed 80:20. CLAY: light to medium grey, stiff, low plasticity (organic); INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle.
				C0204	41.21	0.07	CLAY and INFERIOR LIGNITE	Intermixed 80:20. CLAY: medium to dark brown - grey, firm, low plasticity (organic); INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle.
				C0204	41.43	0.22	CLAY	Light to medium grey, stiff, low plasticity (organic).
				C0204	41.54	0.11	CLAY	Light to medium brown - grey, firm, high plasticity (clay), common resin aggregates.
				C0204	41.59	0.05	CLAY and INFERIOR LIGNITE	Intermixed 80:20. CLAY: medium to dark brown, firm, low plasticity (organic), common resin aggregates; INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle.
				C0204	41.87	0.28	CLAY	Light to medium brown - grey, firm, high plasticity (clay), common woody fragments.
				C0204	41.91	0.04	CLAY	Light to medium grey - brown, firm, high plasticity (clay), common woody fragments.
				C0204	42.07	0.16	CLAY and INFERIOR LIGNITE	Intermixed 80:20. CLAY: ligneous, medium to dark brown, firm, low plasticity (organic), good core - unbroken; INFERIOR LIGNITE: woody textured, peaty, dark brown - black, stiff, brittle, good core - unbroken.

EL2080 LAUNCESTON. C0071

628360

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
				C0204	42.12	0.05	CLAY	Light to medium grey - buff, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C0204	42.16	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C0204	42.22	0.06	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0204	42.34	0.12	CLAY	Light to medium brown, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
				C0204	42.36	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0205	42.51	0.15	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
				C0205	42.64	0.13	INFERIOR LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken; Additional features include: peaty, good core - unbroken.
				C0205	42.67	0.03	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken, abundant resin aggregates.
				C0205	42.73	0.06	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, abundant woody fragments.
				C0205	42.80	0.07	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0205	42.83	0.03	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0205	42.84	0.01	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0205	42.91	0.07	INFERIOR LIGNITE	Woody textured, clayey, dark brown - grey, firm, friable, good core - unbroken, abundant resin aggregates; Additional features include: peaty, good core - unbroken.
				C0205	42.94	0.03	CLAY	Ligneous, medium to dark brown, firm, low plasticity (organic), good core - unbroken.
				C0205	42.95	0.01	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.

359

387285

628361

REPORT TC14-01

THIESS COAL SYSTEM

PAGE 214 11/11/82 15:45:37

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
					43.00	0.05	CORE LGSS	
					-----			
					TOP OF SEAM PC3	43.00		
					-----			
		PC3		C0206	43.02	0.02	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC3		C0206	43.04	0.02	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken.
		PC3		C0206	43.06	0.02	CLAY	Silty, light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
		PC3		C0206	43.09	0.03	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
		PC3		C0206	43.18	0.09	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
		PC3		C0206	43.19	0.01	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PC3		C0206	43.20	0.01	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, fibrous.
		PC3		C0206	43.25	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
		PC3		C0206	43.35	0.10	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, subfissile.
		PC3		C0206	43.38	0.03	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken.
		PC3		C0206	43.40	0.02	LIGNEOUS CLAY	Dark brown - black, firm, low plasticity (organic), good core - unbroken.
		PC3		C0206	43.42	0.02	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
		PC3		C0206	43.45	0.03	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.

EL2080 LAUNCESTON, C0071

REPORT TC14-01  
LAUNCESTON.

THIESS COAL SYSTEM  
GEOLOGICAL LOG REPORT

PAGE 215 11/11/82 15:45:40  
ATP EL2080 TENEMENT 2080  
LAUNCESTON

387287

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC3		C0206	43.48	0.03	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC3		C0206	43.49	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PC3		C0206	43.50	0.01	INFERIOR LIGNITE	Clayey, dark brown - black, firm, friable, good core - unbroken.
		PC3		C0206	43.52	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken; Bands include: CLAY, light to medium brown, firm, high plasticity (clay), good core - unbroken.
		PC3		C0206	43.54	0.02	INFERIOR LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken.
		PC3		C0206	43.56	0.02	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken.
		PC3		C0206	43.62	0.06	INFERIOR LIGNITE	Clayey, dark brown - black, firm, low plasticity (organic).
		PC3		C0206	43.63	0.01	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic).
		PC3		C0206	43.65	0.02	LIGNEOUS CLAY	Dark brown - grey, firm, high plasticity (clay).
		PC3		C0206	43.72	0.07	LIGNEOUS CLAY	Medium to dark brown, firm, high plasticity (clay).
		PC3		C0206	44.02	0.30	INFERIOR LIGNITE	Woody textured, clayey, dark brown, firm, friable, fibrous; Additional features include: peaty.
		PC3		C0206	44.05	0.03	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, low plasticity (organic).
		BASE OF SEAM PC3			44.05	1.05		
				C0207	44.07	0.02	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), common woody fragments.
				C0207	44.11	0.04	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, low plasticity (organic).
				C0207	44.13	0.02	CLAY	Light to medium brown, firm, high plasticity (clay), common woody fragments.

EL2080 LAUNCESTON. C0071

STRAT NAME	SEG NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
				C0207	44.20	0.07	CLAY	Ligneous, medium to dark brown, firm, low plasticity (organic), occasional resin aggregates; Additional features include: abundant woody fragments.
				C0207	44.26	0.06	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, fibrous, abundant woody fragments.
				C0207	44.42	0.16	CLAY	Ligneous, dark brown, firm, low plasticity (organic), abundant woody fragments; Additional features include: common resin aggregates; Bands include: CLAY, light to medium brown - grey, firm, high plasticity (clay).
				C0207	44.49	0.07	CLAY	Medium to dark brown, firm, high plasticity (clay).
				C0207	44.51	0.02	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay).
				C0207	44.62	0.11	CLAY	Light to medium brown, firm, high plasticity (clay), occasional woody fragments.
				C0207	44.69	0.07	CLAY	Medium to dark brown, firm, low plasticity (organic).
				C0207	44.74	0.05	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken.
				C0207	44.78	0.04	CLAY	Light to medium grey - brown, firm, high plasticity (clay), good core - unbroken.
				C0208	44.86	0.08	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C0208	44.94	0.08	CLAY	Ligneous, dark brown - grey, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
				C0208	45.31	0.37	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
				C0208	45.33	0.02	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.
				C0208	45.35	0.02	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0208	45.41	0.06	LIGNEOUS CLAY	Dark brown - black, firm, high plasticity (clay), good core - unbroken, abundant woody fragments.

362

628364

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
				C0208	45.50	0.09	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken, common woody fragments; Additional features include: occasional resin aggregates.
				C0208	45.57	0.07	LIGNEOUS CLAY and INFERIOR LIGNITE	Intermixed 50:50. LIGNEOUS CLAY: dark brown - black, firm, high plasticity (clay), good core - unbroken; INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken, occasional resin aggregates.
				C0208	45.77	0.20	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken;  LOOKS LIKE LOGS OF WOOD
				C0208	45.92	0.15	CLAY	Light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0208	45.97	0.05	LIGNEOUS CLAY	Dark brown, firm, high plasticity (clay), good core - unbroken.
				C0208	46.00	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C0208	46.04	0.04	INFERIOR LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken.
				C0209	46.13	0.09	INFERIOR LIGNITE and LIGNEOUS CLAY	Intermixed 80:20. INFERIOR LIGNITE: woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken; LIGNEOUS CLAY: dark brown, firm, low plasticity (organic), good core - unbroken.
				C0209	46.20	0.07	CLAY	Light to medium brown, firm, high plasticity (clay), good core - unbroken, occasional woody fragments.
				C0209	46.24	0.04	CLAY	Medium to dark brown, firm, high plasticity (clay), good core - unbroken, common woody fragments.
				C0209	46.38	0.14	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, friable, good core - unbroken, fibrous; Additional features include: peaty, good core - unbroken.
				C0209	46.43	0.05	LIGNEOUS CLAY	Dark brown, firm, low plasticity (organic), good core - unbroken, sharp oblique base, beds dip at 20 degrees.

EL2080 LAUNCESTON. C0071

363

387289

628365

364

REPORT TC14-01

THIESS COAL SYSTEM

PAGE 218 11/11/82 15:45:50

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
				C0209	46.51	0.08	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), good core - unbroken.
				C0209	46.54	0.03	INFERIOR LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
				C0209	46.63	0.09	LIGNEOUS CLAY and CLAY	Interbedded 70:30. LIGNEOUS CLAY: medium to dark brown, firm, low plasticity (organic), good core - unbroken; CLAY: light to medium brown, firm, high plasticity (clay), good core - unbroken.

TOP OF SEAM PC4 46.63

	PC4			C0210	46.67	0.04	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
	PC4			C0210	46.70	0.03	LIGNITE	Woody textured, clayey, dark brown - black, firm, friable, good core - unbroken, fibrous, abundant resin aggregates.
	PC4			C0210	46.73	0.03	CLAY	Medium to dark brown - grey, firm, high plasticity (clay), good core - unbroken.
	PC4			C0210	46.76	0.03	LIGNITE	Clayey, dark brown, firm, friable, good core - unbroken.
	PC4			C0210	46.84	0.08	LIGNITE	Clayey, woody textured, dark brown - grey, firm, friable, good core - unbroken, fibrous.
	PC4			C0210	46.92	0.08	LIGNITE	Woody textured, dark brown - black, firm, friable, good core - unbroken.
	PC4			C0210	46.96	0.04	INFERIOR LIGNITE	Clayey, woody textured, dark brown, firm, low plasticity (organic), good core - unbroken.
	PC4			C0210	47.02	0.06	LIGNITE	Clayey, woody textured, dark brown - black, firm, friable, good core - unbroken, occasional resin aggregates.
	PC4			C0210	47.13	0.11	LIGNITE	Woody textured, dark brown, firm, friable, good core - unbroken.
	PC4			C0210	47.14	0.01	INFERIOR LIGNITE	Clayey, dark brown, firm, low plasticity (organic), good core - unbroken, subfissile.
	PC4			C0210	47.16	0.02	INFERIOR LIGNITE	Woody textured, peaty, dark brown - black, low strength, brittle, good core - unbroken.

EL2080 LAUNCESTON. C0071

628366

365  
387291

STRAT NAME	SEQ NO.	SEAM NAME	WORK SECT	SAMPLE NUMBER	DEPTH (m)	THICK (m)	ROCK TYPE	GEOLOGICAL DESCRIPTION OF STRATA
		PC4		C0210	47.22	0.06	LIGNITE	Woody textured, dark brown - black, firm, friable, occasional resin aggregates.
		PC4		C0210	47.25	0.03	LIGNITE	Woody textured, dark brown - grey, firm, friable, subfissile, sharp oblique base, beds dip at 15 degrees.
		PC4		C0210	47.29	0.04	CLAY	Light to medium brown - grey, firm, high plasticity (clay).
		PC4		C0210	47.36	0.07	LIGNEDUS CLAY	Medium to dark brown, firm, high plasticity (clay).
		PC4		C0210	47.38	0.02	INFERIOR LIGNITE	Woody textured, peaty, dark brown, low strength, brittle.
		PC4		C0210	47.41	0.03	LIGNITE	Woody textured, dark brown - yellow, firm, friable.
		PC4		C0210	47.52	0.11	INFERIOR LIGNITE and INFERIOR LIGNITE	Intermixed 60:40. INFERIOR LIGNITE: clayey, dark brown, firm, low plasticity (organic); INFERIOR LIGNITE: woody textured, peaty, dark brown, low strength, brittle.
SOME SIDERITE REPLACEMENT OF WOOD								
		PC4		C0210	47.53	0.01	LIGNEDUS CLAY	Dark black - brown, firm, low plasticity (organic), fibrous, abundant resin aggregates.
WOODY MATERIAL VERY FIBROUS								
		PC4		C0210	47.67	0.14	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), common woody fragments.
		PC4		C0210	47.71	0.04	CLAY	Silty, dark brown, firm, low plasticity (organic), abundant woody fragments.
		PC4		C0210	47.75	0.04	LIGNITE	Clayey, dark brown - black, firm, friable.
		PC4		C0210	47.78	0.03	INFERIOR LIGNITE	Woody textured, peaty, dark brown, low strength, brittle, fibrous.
		PC4		C0210	47.80	0.02	INFERIOR LIGNITE	Dark brown - black, firm, high plasticity (clay).
					BASE OF SEAM PC4		47.80	1.17
				C0211	47.87	0.07	CLAY	Light to medium grey - brown, firm, high plasticity (clay).

628367

366

REPORT TC14-01

THIESS COAL SYSTEM

PAGE 220 11/11/82 15:45:57

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
				C0211	48.09	0.22	CLAY	Light to medium grey, firm, high plasticity (clay), abundant ligneous wisps.
				C0211	48.41	0.32	CLAY	Silty, light to medium brown - grey, firm, high plasticity (clay), abundant woody fragments; Additional features include: occasional resin aggregates.
				C0211	48.73	0.32	CLAY	Light to medium grey - brown, firm, slickensides on fracture, high plasticity (clay), common, multi-directional joints, angle of joints 50 degrees, common woody fragments; Additional features include: slickensides on fracture, common, multi-directional joints, angle of joints 70 degrees.

END OF BORE AT 48.73 m

EL2080 LAUNCESTON. C0071

628368