C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

823101 SHEET 1 OF 2

TENEMENT NAME Mersey River J.V. No. EL 4/74

PLAN – MAP REFERENCE 1 : 25 000

CO-ORDINATES 451500 E 5431650 N DRILLERS Exploration Drilling COMMENCED 22 11 81 DEPTH 38.3 HOLE No. MR61

RL COLLAR 27 m ASL INCLINATION - 90° DRILL TYPE L R TH60 COMPLETED 22 11 81 CASING LEFT DPO No(s) 30301

DEPTH From (M)	DEPTH To(M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by AMDEL) PROXIMATE ANALYSIS (DRY) Volatiles %	Fixed C %	Ash %	OIL YIELD L/Tonne
0	10				ALLUVIAL GRAVELS: Not coarse.								
10	28				ARGILLITES: Blue grey mudstones. Micaceous. Occassional siltbands, clasts fairly infrequent.								
28	35.3				SILTSTONES: Mid grey, fairly well sorted. Lighten and coarsen slightly downwards. Clasts fairly frequent-dominatly quartz-arenite.								
35.3	36.34				SILTSTONES: Mid grey, not particularly well sorted, abundant clasts, up to 3cm, but concentrated in narrow bands at irregular intervals. Clasts are rounded and often slightly pyritic and are of several lithotypes but dominantly quartz arenite. The lower contact is marked by a 3cm band of small, rounded clasts which have deformed the laminae of the underlying oil shale.								
36.34	37.07	0.73			TASMANITE OIL SHALE: Split by a virtually barren zone between 36.48-36.67. Above this is moderate grade oil shale (i.e. 36.34 - 36.48) with a few clasts. most noticeable at the top. The "barren" zone is much the same as the oil shale except that it has a very low spore content and an increase in small, angular clasts (often chert) with traces of pyrite. The contacts of this low grade zone are fairly sharp. Beneath low grade zone, (36.67-37.07) is moderate grade grade Tasmanite Oil Shale. Clasts not abundant. Lower contact is gradational through decrease in spore content.	986680	36.34	37.07	0.73	10.25	0.15	89.60	155

823102

C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

SHEET 2 OF 2

TENEMENT NAME Mersey River JV. No. EL 4/74

PLAN – MAP REFERENCE 1 : 25 000

CO-ORDINATES 451500 E 5431650 N DRILLERS Exploration Drilling COMMENCED 22 · 11 · 81 DEPTH 38.3m HOLE No. MR61

RL COLLAR 27 m ASL INCLINATION - 90° DRILL TYPE LR 1H60 COMPLETED 22 · 11 · 81 CASING LEFT DPO No(s) 30301

DEPTH From (M)	DEPTH To(M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by AMDEL) PROXIMATE ANALYSIS (DRY) Volatiles %	Fixed C %	Ash %	OIL YIELD L/Tonne
37.07	37.57	0.50			SILTSTONE: Mid grey, basically the same as the overlying oil shale but with only ± 5% spores. Poorly laminated (90°). Occassional, isolated clasts to 1cm except base of unit where there is a 2cm band with abundant clasts.	986681	37.07	37.57	0.50	11.07	1.09	87.84	48
37.57	38.09	0.52			TASMANITE OIL SHALE: Low to moderate grade. Isolated clasts, rounded 0.5 - 2cms, dominantly quartz arenite 37.79-37.84 a 5cm band of darker grey siltstone well laminated, with very few Tasmanities spores and hosting, towards its base a 2mm thick disrubted lamina of calcareous material. Contacts of this band are sharp. The lower contact of the oil shale is gradual over a few centimetres by decreasing spore content.	986682	37.57	38.09	.52	19.33	0.61	80.06	
38.09	38.30				SILTSTONE: Mid grey. The upper 5cm has a very low spore content rapidly decreasing downwards. The silt is fairly well sorted but does have quite a few clasts, but generally isolated. Micaceous, traces of pyrite.								