

055

270056

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 1

TENEMENT NAME... PARATTAH No. EL.18/82

PLAN - MAP REFERENCE.....

CO-ORDINATES 540248.4mE 5321175.0mN AZIMUTH NA DRILLERS OVERLAND COMMENCED 10.9.84 DEPTH TD 50-70m HOLE No. DD84 PT-12

RL COLLAR 443.15 INCLINATION -90° DRILL TYPE WARMAN 500 COMPLETED 11.9.84 CASING LEFT..... DPO No(s).....

DEPTH		CORE RECOVERY		CORE SIZE	CORE DESCRIPTION	WEATH.	DEFECT SPACING	Sample No.	From (m)	To (m)	Rec (m)	ASSAY VALUES (Analysed by ACIRL)								
From (m)	To (m)	m	%									Composites								
												RD	A	RD	A	M	VM	S	SE	FC
0	1.5	1.5	100	HQ	0-0.85: Alluvium, lithic sand (Quaternary)															
1.5	3.1	1.15	72	NQ	0.85-1.50: Sandstone, lithic, mg	HW														
				"	1.50-2.10: Core loss - 0.07m of coal and 0.10m oxid. sandstone recovered	HW														
				"	2.10-3.04: Sandstone, lithic, mg	M/HW														
3.1	4.8	1.7	100	"	3.04-3.10: Sandstone, lithic (? carbonate concretion)	SW														
				"	3.10-4.60: Sandstone, lithic, m to cg	MW														
				"	4.60-4.70: Mudstone, minor oxidized coal - interval very soft and broken	MW														
				"	4.70-4.80: Sandstone, lithic, m/cg with carbonaceous mudstone debris	MW														
				"	4.80-5.06: Mudstone, carbonaceous and dark brown	MW														
4.8	5.6	0.75	94	"	5.06-5.19: Coal, heavy dull, soft (D)	MW		96	5.06	5.19	0.13	1.83	47.6							
				"	5.19-5.27: Mudstone, carbonaceous	MW		97				2.04	64.0							
				"	5.27-5.34: Mudstone, buff	MW		98				2.39	83.0							
				"	5.34-5.42: Mudstone, carbonaceous	MW		99				2.10	68.6							
				"	5.42-5.60: Shale, buff	MW		100				2.41	84.0							
				"	5.60-5.88: Coal, dull, 5% B, (Dmb), minor clay pellets	MW		101				1.75	45.5							
				"	5.88-5.97: Mudstone/shale, buff			102				2.27	79.9							
				"	5.97-6.49: Coal, dull, 5% B to 6.30, 10% B from 6.3-6.49, generally hard, minor 5-10 mm carbonaceous mudstone bands, (Dmb)	SW		103				1.69	39.4							
				"	6.49-6.63: Mudstone, cream (hard)	SW		104				2.35	82.7							
				"	6.63-6.97: Coal, dull, 1% B (Dmb), hard	SW		105				1.65	33.9							
				"	6.97-7.01: Shale, buff	SW		106				2.32	81.6							
5.6	7.9	2.25	98	"	7.01-7.09: Coal, heavy dull (D)	SW		107				1.91	57.2							
				"	7.09-7.15: Mudstone, brown to carbonaceous	SW		108				2.20	74.7							
				"	7.15-7.18: Coal, heavy dull (D)	SW		109				1.99	61.8							
				"	7.18-7.20: Mudstone, carbonaceous	F		110				2.24	76.5							
				-	7.20-7.27: Coal, heavy dull, 3% B (Dmb)	F		111				1.87	55.1							
												(BOC) ≈ 7.20 m								

Samples 101-127 inclusive

270058

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 3

TENEMENT NAME..... PARATTAH No.

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... NA DRILLERS..... OVERLAND COMMENCED..... 10.9.84 DEPTH..... TD HOLE No. RD8A.PT-12.....

RL COLLAR..... INCLINATION..... -90° DRILL TYPE..... WARMAN 500 COMPLETED..... 11.9.84 CASING LEFT..... DPO No(s).....

DEPTH		CORE RECOVERY		CORE SIZE	CORE DESCRIPTION	WEATH.	DEFECT SPACING	Sample No.	From (m)	To (m)	Rec (m)	ASSAY VALUES (Analysed by ACIRL)								
From (m)	To (m)	m	%									Composites								
												RD	A	RD	A	M	VM	S	SE	PC
27.10	30.20	3.07	99	NQ	27.60-31.55: Sandstone, lithic, m to cg															
				"	31.55-31.94: Coal, dull, 5% B (Dmb)			128	31.55	31.94	0.39	1.60	29.9)						
				"	31.94-32.04: Shale, buff to brown			129				2.32	84.4)	43.9	4.2	11.7	0.26	16.92	40.2
				"	32.04-32.18: Coal, dull, < 10% B (Dmb)			130	32.04	32.18		1.67	40.1)						
				"	32.18-32.28: Mudstone, grey laminated															
				"	32.28-32.72: Siltstone, minor mudstone 1B's			131	32.18	32.72		2.46	91.3							
30.20	33.20	3.0	100	"	Laminated v.minor (3mm) coal laminae															
				"	32.72-32.83: Mudstone, carbon/dark grey, with minor coal															
				"	laminae (3mm)			132	32.72	32.85		2.03	67.0							
				"	32.83-32.85: Coal, dull, 20% B (Db)															
				"	32.85-33.09: Mudstone, brown & grey			133				2.48	91.4							
33.2	33.4	0.2	100	"	33.09-33.30: Coal, dull, 1% B (Dmb)			134				1.52	22.0	↑						
				"	33.30-33.35: Coal, dull, (D) - silicified			135				2.21	79.7							
				"	33.35-33.42: Coal, dull, 1% B (Dmb), sl. silicified			136				1.67	35.4							
				"	33.42-33.45: Shale, buff to cream			137				2.18	81.6		Samples 134-137 inclusive					
				"	33.45-33.56: Coal, heavy dull, 1% B (Dmb)			138				1.78	47.7							
				"	33.56-33.77: Shale, buff			139				2.30	84.5							
				"	33.77-34.44: Coal, 3% B (Dmb), minor calcite in cleats										41.5	3.8	11.8	0.26	17.94	42.9
				"	and fracture zones			140				1.53	21.9							
				"	34.44-34.54: Shale, dark brown			141				2.21	82.5							
				"	34.54-34.61: Coal, dull, 5% B (Dmb) brecciated with										Plies 128, 130, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154 and 157					
				"	calcite & zeolite, sl. silicified			142				1.67	38.9							
				"	34.61-34.75: Shale, buff to cream			143				2.22	81.6							
33.4	36.3	2.9	100	"	34.75-34.95: Coal, dull, 5% B (Dmb)			144				1.49	19.0							
				"	34.95-34.97: Coal, dull (D) - silicified			145				2.24	82.5		25.9	2.4	14.5	0.36	24.24	57.2
				"	34.97-35.33: Coal, dull 5% B (Dmb)			146				1.51	22.6							
				"	35.33-35.40: Shale, medium brown			147				2.35	82.5							
				"	35.40-35.70: Coal, dull, 5% B (Dmb)			148				1.54	25.1							
				"	35.70-35.75: Shale, buff			149				2.33	81.9							
				"	35.75-36.06: Coal, dull, 3% B (Dmb)			150				1.61	31.4							

270059

C.R.A. EXPLORATION PTY. LIMITED
DRILL CORE LOG

SHEET No. 4

TENEMENT NAME..... No.

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... NA..... DRILLERS..... OVERLAND..... COMMENCED..... 10.9.84..... DEPTH..... TD..... HOLE No. ... DD84 PT-12...

RL COLLAR..... INCLINATION..... -90°..... DRILL TYPE..... WARMAN 500..... COMPLETED..... 11.9.84..... CASING LEFT..... DPO No(s).....

DEPTH		CORE RECOVERY		CORE SIZE	CORE DESCRIPTION	WEATH.	DEFECT SPACING	Sample No.	From (m)	To (m)	Rec (m)	ASSAY VALUES (Analysed by ACIRL)										
From (m)	To (m)	m	%									Composites										
												RD	A	RD	A	M	VM	S	SE	FC		
				NQ	36.06-36.08: Coal, dull (D) - silicified			151	36.06	36.08	0.02	2.29	86.4									
				"	36.08-36.67: Coal, dull, 5% B (Dmb) to 36.3m, + 50% B (Db)			152				1.48	18.8									
				"	to 36.67, calcire + zeolite																	
36.3	37.6	1.3	100	"	36.67-36.79: Mudstone, grey			153				2.46	88.6									
				"	36.79-36.82: Coal, bright >90% B(b)			154				1.52	25.2									
				"	36.82-36.88: Mudstone, shaley, grey/brown			155				2.26	79.6									
				"	36.88-37.01: Mudstone, carbonaceous, minor/min coal laminae			156				2.10	70.4									
37.6	38.6	1.0	100	"	37.01-37.60: Coal, dull 10% B (Dmb/Db)			157	37.01	37.60	0.59	1.57	25.9									
				"	37.60-38.50: Mudstone, grey and brown																	
				"	38.50-38.53: Coal, dull, 30% B (Db)																	
				"	38.53-38.60: Mudstone, grey/brown, 1 min coal plocs																	
				"	38.60-38.70: Mudstone, grey/brown																	
				"	38.70-40.13: Siltstone, minor mudstone 1B's																	
				"	40.13-40.40: Mudstone, grey, broken, faulted boundary at 40.13m ($\Delta 35^\circ$)																	
				"	40.40-40.73: Coal, dull, 5% B (Dmb)			158				1.59	30.0		30.0	2.7	13.1	0.48	2.76	54.2		
38.6	41.4	2.8	100	"	40.73-41.53: Mudstone, shaley, grey brown, possible crushed zone at 41.0 ($\Delta 30^\circ$)																	
				"	41.53-41.60: Coal, dull, 2% B (Dmb)																	
41.4	42.2	0.8	100	"	41.60-41.85: Mudstone, brown, shaley																	
				"	41.85-42.75: Sandstone, lithic, mg with mudstone and siltstone laminae + 1B's																	
				"	42.75-43.00: Siltstone, minor mudstone 1B's																	
				"	43.00-44.30: Mudstone, grey/brown, 1-2mm coal plies from																	
42.2	44.5	2.25	98	"	43.45-43.55m, ? crushed zone at 43.75 ($\Delta 30^\circ$); thin siltstone 1B's																	
				"	44.30-44.90: Siltstone + fg lithic sandstone																	
44.5	47.6	3.1	100	"	44.90-47.10: Sandstone, lithic f to mg, sev. siltstone																	
47.6	50.7	3.1	100	"	47.10-50.70: Sandstone, lithic, mg																	

EOH 50-70m