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270094

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

SHEET No. 1

TENEMENT NAME PARATTAH No. EL 18/82

PLAN – MAP REFERENCE

CO-ORDINATES 540.160E 322.700N AZIMUTH NA DRILLERS OVERLAND COMMENCED 17.10.84 DEPTH 57.00m HOLE No. DD84 PT32

RL COLLAR INCLINATION -90° DRILL TYPE SCOUT 250 COMPLETED 18.10.84 CASING LEFT DPO No(s)

DEPTH From (m)	DEPTH To (m)	CORE RECOVERY m	CORE RECOVERY %	CORE SIZE	CORE DESCRIPTION	WEATH.	DEFECT SPACING	Sample No.	From (m)	To (m)	Rec (m)	ASSAY VALUES (Analysed by ACIRL) RD	A	Composites RD	A	M	VM	S	SE	FC
	1.5	TRICONE ROLLER - PRECOLLAR																		
5	3.6	1.75	83	NQ	0-1.5: Alluvium															
				"	1.5-4.8: Sandstone, lithic, m to cg, minor CPC	MW	30-100mm													
6	6.6	2.75	92	"	4.8-6.32: Mudstone, brown (oxide) laminated	HW	20-50mm													
				"	6.32-6.55: Siltstone	MW	)													
				"	6.55-6.73: Siltstone	SW	)50-100mm													
6	9.6	3.0	100	"	6.73-7.05: 1B Siltstone + fg quartz sandstone	MW	)													
				"	7.05-10.12: as above, very regular 1B's with ave. width	) SW	)100mm													
					5mm, 6.73-10.12m	)	)				80CO	- 10.12m								
				"	10.12-10.35: Sandstone, quartz, mg, minor carbonaceous	F	)													
6	12.6	3.0	100		mudstone debris, (? cemented within carbonates)		) 100mm													
2.6	15.6	3.0	100	"	10.35-18.15: Sandstone, lithic, mg, coaly debris 11.7-12.3,		)													
5.6	18.6	2.95	98		16.3-16.5, minor grey mudstone pellets		) 100-600mm													
				"	18.15-21.50: CPC of grey & carbonaceous mudstone in m to cg		)													
8.6	21.6	2.85	95		lithic sandstone (? some in situ beds)		)													
				"	21.50-21.99: Mudstone, grey, massive		)													
				"	21.99-22.07: Mudstone, carbonaceous, ±HDC			989284	21.99	22.07	0.08	2.19	75.0							
				"	22.07-22.15: Coal, heavy dull, brecciated, mixture of D & Dmb			285	22.07	22.15	0.08	1.85	51.5							
				"	22.15-22.24: Shale, buff			286			0.09	2.32	83.0							
				"	22.24-22.65: Coal, dull, 3% B(Dmb), rel. hard			287			0.41	1.60	29.7	Samples 989285-296						
				"	22.65-22.79: Coal, bright, 50% B (DB), v.soft			288			0.14	1.56	26.6	inclusive:						
				"	22.79-22.94: Coal, dull, 10% B (Dmb), soft			289			0.15	1.60	31.0							
1.6	24.6	2.95	98	"	22.94-23.02: Shale, dark brown			290			0.08	2.24	78.4	1.67	36.9	4.1	13.3	0.33	19.48	45.7
				"	23.02-23.18: Coal, dull, 10-15% B (Db), soft			291			0.16	1.55	26.2							
				"	23.18-23.40: Coal, dull, - 30% B(Db), soft with some core loss			292			0.22	1.57	27.9	Samples with 50% Ash between						
				"	23.40-23.50: Mudstone, grey to pale brown			293			0.10	2.27	78.0	989285 and 296:						
				"	23.50-23.80: Coal, dull (D) with 2 x 20mm buff shales			989294	23.50	23.80	0.30	1.64	34.5	1.59	28.7	3.3	15.0	0.38	22.74	53.0
				"	23.80-24.20: Coal, dull (Dmb) generally soft			295	23.80	24.20	0.40	1.59	29.1							
				"	24.20-24.55: Coal, dull, ave.20-25% B(Db), alternate soft			) 296	24.20	24.55	0.35	1.55	24.1							
					& bright (50mm)ploes with hard & dull (80-100mm) ploes			)												
					core loss in former			)												

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

SHEET No. ....2.....
TENEMENT NAME..... No. .....
PLAN – MAP REFERENCE.....
CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. DD84 PT32.....
RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s).....

DEPTH From (m)	DEPTH To (m)	CORE RECOVERY m	CORE RECOVERY %	CORE SIZE	CORE DESCRIPTION	WEATH.	DEFECT SPACING	Sample No.	From (m)	To (m)	Rec (m)	ASSAY VALUES (Analysed by .....) RD	A	Composites RD	A	M	VM	S	SE
				NQ	24.55-24.80: Mudstone, grey & brown														
				"	24.80-25.72: Sandstone, quartz rich lithic, fg														
				"	25.72-25.74: Coal, dull (Db) 20% calcite														
				"	25.74-26.43: Sandstone, lithic, fg														
24.6	27.6	2.70	90	"	26.43-26.65: Crushed zone - local motion only, ie mudstone														
					roof still - in ploes (base - 20°)														
				"	26.65-26.91: Coal, dull (D), hard			989297	26.65	26.91	0.26	1.71	36.6	(					
				"	26.91-27.10: Coal, dull (D), soft & broken, contaminated			(						(					
					with mudstone ... 0.36m core loss 26.91-27.60m			(298			0.19	2.08	66.5	(1.87	50.5	2.3	12.7	0.28	14.60	34.5
				"	27.10-27.95: Mudstone, grey, with coal fragments throughout			(											
					the interval			(299			0.85	2.36	83.1						
				"	27.95-28.02: Coal, dull (Dmb) minor distribution .. probably			(300			0.07	1.71	38.6						
					similar 26.43-26.65.			(											
				"	28.02-28.10: Mudstone, pale brown			989172			0.08	2.12	70.0	1.87	52.2	2.6	12.5	0.31	13.86	32.7
				"	28.10-28.25: Coal, heavy dull, broken			173			0.15	1.95	58.1						
27.6	30.6	3.0	100	"	28.25-28.65: Mudstone, grey & broken			174			0.40	2.48	88.4						
				"	28.65-28.90: Coal, dull, (Dmb), some loss of bright coal			175			0.25	1.67	34.5						
					So - 60°														
				"	28.90-28.98: Shale, buff			176			0.08	2.45	86.9	1.71	37.1	2.0	16.1	0.42	19.16	44.8
				"	28.98-29.03: Coal, heavy dull, broken & dislocated			177	28.98	29.03	0.05	1.89	50.4						
				"	29.03-29.48: Mudstone, grey & broken														
				"	29.48-29.54: Coal, dull (D), broken														
				"	29.54-31.13: Mudstone, grey, minor thin coal band, all broken														
31.13	33.6	3.0	100	"	31.13-46.60: Sandstone, lithic, f to mg, generally clean														
33.6	36.6	3.0	100		minor mudstone & coaly debris from 41.10-41.15m, carbonate														
36.6	39.6	3.0	100		concretion from 44.05-44.45m														
39.6	42.6	3.0	100																
42.6	45.6	3.0	100	"	46.60-46.92: 1B dark grey mudstone/cream siltstone to														
					silty mudstone (... similar to roof of upper seam in PT25)														
				"	46.92-47.21 Mudstone rey/brown silty														

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

SHEET No. 3

TENEMENT NAME..... No. .....

PLAN – MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. DD84 PT32

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s).....

DEPTH From (m)	DEPTH To (m)	CORE RECOVERY m	CORE RECOVERY %	CORE SIZE	CORE DESCRIPTION	WEATH.	DEFECT SPACING	Sample No.	From (m)	To (m)	Rec (m)	ASSAY VALUES (Analysed by .....) RD	A	Composites RD	A	M	VM	S	SE	
				NQ	47.21-47.33: Mudstone, carbonaceous, ±HDC			(989178	47.21	47.33	0.12	2.25	78.4	(						
45.6	48.5	2.9	100	"	47.33-47.93: Coal, dull, 10-15% B (Db) v. soft			(179			0.60	1.68	38.3	(1.69	38.6	3.7	9.8	0.34	19.28	47.9
				"	47.93-48.42: Coal, dull, 15-25% B (Db), v.soft & difficult			((180			0.49	1.56	24.8	(						
					to estimate % bright coal			((						(						
				"	48.42-48.55: Mudstone, grey to shaley, broken with			989181	48.42	48.55	0.13	2.33	87.1							
					2 x 20mm coal ploes															
				"	48.55-49.28: Mudstone, grey/brown, with coal (Db) 49.07-49.09m															
48.5	50.8	2.4	100	"	49.28-49.38: Siltstone & fg lithic sandstone															
				"	49.38-49.96: Sandstone, lithic, fg, minor mudstone &															
					carbonaceous debris															
				"	49.96-50.20: Mudstone, brown, laminated															
				"	50.20-50.40: Coal, heavy dull			989182	50.20	50.40	0.20	1.90	51.2							
				"	50.40-50.45: Coal, dull, mixed with - 1 x 10mm shale band			(183			0.05	1.72	44.1	1.71	39.5	4.6	10.0	0.36	8.24	45.9
					(ie contaminated)			(												
				"	50.45-50.54: Coal, dull, 1% B (Dmb)			184			0.09	1.67	37.4							
				"	50.54-50.60: Coal, dull, 10-15% B (Db)			185			0.06	1.54	26.3							
				"	50.60-50.75: Coal, 40-50% B (DB)			989186	50.60	50.75	0.15	1.53	25.3							
50.8	51.0	0.3	100	"	50.75-51.64: Mudstone, brown & fissile															
51.0	51.3	0.3	100	"	51.64-52.07: 1B mudstone & siltstone															
51.3	54.0	2.54	94	"	52.07-57.00: Sandstone, lithic, mg, minor laminations to															
54.0	57.0	3.0	100		52.4m															
					EOH - 57.0m															