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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

270117

TENEMENT NAME PARATTAH No. EL 18/82

PLAN – MAP REFERENCE

CO-ORDINATES 537550E 320570N AZIMUTH NA DRILLERS OVERLAND COMMENCED 26.10.84 DEPTH 39.70m HOLE No. DD84.PTA0

RL COLLAR INCLINATION -90° DRILL TYPE SCOUT 250 COMPLETED 29.10.84 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
0	3.0			TRICONE ROLLER - PRECOLLAR																
					0-3.0: Alluvium and weathered sandstone															
3.0	3.8	0.75	94	NQ	3.0-3.1: Sandstone, lithic, mg	SW														
				"	3.1-3.4: Sandstone, lithic, mg	MW														
				"	3.4-3.5: Sandstone, lithic, mg	SW														
3.8	6.8	3.0	100	"	3.5-6.22: Sandstone, lithic, mg	F				BOCO @ 3.5m										
6.8	8.3	1.2	80	"	6.22-8.26: Shale, carbonaceous ± fg quartz sandstone 1B's															
				"	8.26-8.61: Sandstone, quartz f to mg															
8.3	9.7	0.6	43	"	8.61-9.63: Shale, carbonaceous															
				"	9.63-9.75: Sandstone, quartz, fg															
				"	9.75-10.55: Mudstone, grey															
				"	10.55-10.58: Coal, heavy dull			989835	10.55	10.58	0.03	1.92	54.8							
				"	10.58-10.63: Shale, carbonaceous, minor coal (Bd) plies			836			0.05	2.24	76.2							
				"	10.63-10.70: Shale, brown			837			0.07	2.31	81.0	Sample 989838:						
				"	10.70-10.82: Coal, dull, 5-10% bright (Dmb)			838			0.12	1.72	40.6	1.72	40.6	4.0	9.7	0.55	18.20	45.7
9.7	12.7	2.9	97	"	10.82-10.88: Shale, carbonaceous (as for 10.58-10.63)			989839	10.82	10.88	0.06	2.20	74.1							
				"	10.88-10.99: Mudstone, grey															
				"	10.99-11.35: 1B mudstone/siltstone/fg quartz sandstone															
				"	11.35-11.75: Mudstone/siltstone															
				"	11.75-12.76: Mudstone, grey															
				"	12.76-12.86: Mudstone, carbonaceous															
				"	12.86-13.10: Mudstone, grey															
				"	13.10-13.19: Mudstone, carbonaceous															
				"	13.19-13.21: Coal, dull, 10% bright (Dmb)															
				"	13.21-13.41: Mudstone, grey															
				"	13.41-13.48: Mudstone, carbonaceous															
12.7	15.7	3.0	100	"	13.48-14.43: Mudstone, grey/brown															
				"	14.43-15.35: Shale, brown															
				"	15.35-15.45: Shale, carbonaceous															
				"	15.45-15.75: Mudstone, brown															

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

270118

SHEET No. 2

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

PLAN – MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. DD84 PT40

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	15.75-16.30: 1B mudstone/siltstone/fg quartz sandstone															
				"	16.30-17.10: Sandstone, quartz, feldspathic fg, minor															
					siltstone 1B's															
15.7	18.7	3.0	100	"	17.10-17.80: Mudstone, grey, 1-3mm coal (Bd) ploes, to															
					17.25m, silty base															
				"	17.80-18.17: Sandstone, quartz, feldspathic															
				"	18.17-18.58: Sandstone, quartz rich lithic															
				"	18.58-19.18: 1B mudstone/siltstone															
				"	19.18-20.70: 1B mudstone/siltstone/quartz sandstone															
18.7	21.7	3.05	>100	"	20.70-21.70: Siltstone															
				"	21.70-21.90: Mudstone, grey, laminated									Sample 989840 =						
				"	21.90-21.97: Coal, dull (D)			989840	21.90	21.97		1.87	51.5	1.87	51.5	1.9	10.2	0.31	14.42	36.4
				"	21.97-22.04: Mudstone, carbonaceous, ± heavy dull coal			841	21.97	22.04		2.13	69.5							
				"	22.04-22.85: Mudstone - laminite															
				"	22.85-22.99: Mudstone, carbonaceous, minor quartz sandstone 1B's															
				"	22.99-23.48: Siltstone, muddy															
				"	23.48-23.49: Shale, brown															
21.7	24.7	3.0	100	"	23.49-23.55: Carbonate - dense calcite (? + dolomite)															
					veins in ? original mudstone															
				"	23.55-23.66: Coal, dull, 20% bright (Db)			989842	23.55	23.66		1.59	29.1	1.59	29.1	2.5	11.2	0.74	22.78	57.2
				"	23.66-23.95: 1B siltstone/quartz sandstone															
				"	23.95-25.07: Siltstone															
				"	25.07-25.17: Sandstone, quartz, fg															
				"	25.17-25.65: Siltstone															
				"	25.65-26.28: Sandstone, quartz, fg															
24.7	27.7	3.03	>100	"	26.28-26.49: Mudstone, carbonaceous															
				"	26.49-26.55: Carbonate - as for 23.49-23.55, ...?															
					slightly siliceous															
				"	26.55-26.58: Coal, dull, 20% bright, (Db), minor orange															
					zeolite															

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C.R.A. EXPLORATION PTY. LIMITED

DRILL CORE LOG

270119

SHEET No. 3

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

PLAN – MAP REFERENCE .....

CO-ORDINATES ..... AZIMUTH ..... DRILLERS ..... COMMENCED ..... DEPTH ..... HOLE No. DD84 PT40

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	26.58-27.00: Mudstone, grey, plant fossils														
				"	27.00-27.65: Siltstone														
27.7	30.7	3.0	100	"	27.65-28.00: Mudstone, grey, v.minor 1mm coal (Bd) ploes														
				"	28.00-28.15: Siltstone														
				"	28.15-28.60: Sandstone, quartz, feldspathic														
				"	28.60-28.90: Siltstone														
				"	28.90-29.25: Mudstone, grey (as for 27.65-28.00)														
				"	29.25-29.36: Siltstone														
				"	29.36-30.08: Sandstone, quartz, fg														
				"	30.08-30.57: Mudstone, grey, minor coal plies														
				"	30.57-32.23: 1B quartz sandstone/siltstone														
30.7	33.7	3.0	100	"	32.23-32.70: Mudstone, laminite														
				"	32.70-33.0: Siltstone														
				"	33.0-33.37: 1B siltstone quartz sandstone														
				"	33.37-34.68: Sandstone, quartz, f to mg														
				"	34.68-34.84: Siltstone, laminated														
				"	34.84-35.30: *Shale, carbonaceous* (Core														
33.7	36.7	2.7	90	"	35.30-35.80: Shale, brown (loss														
				"	35.80-36.50: Sandstone, quartz, feldspathic and carbonaceous														
				"	36.50-36.70: Mudstone, carbonaceous & silty														
				"	36.70-39.70: Sandstone, quartz, feldspathic & carbonaceous														
36.7	39.7	2.98	99		wispy bands, carbonate (+ ? silica) concreted 39.38-39.65m														
					(.. of PT36)														
					EOH - 39.70m														