090

SHEET No. 1

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

270091

TENEMENT NAME PARATTAH No. EL 18/82

PLAN – MAP REFERENCE

CO-ORDINATES 539875.9mE 5323204.2mN AZIMUTH NA DRILLERS OVERLAND COMMENCED 15.10.84 DEPTH 57.70m HOLE No. DD84 PT-31

RL COLLAR 462.55 INCLINATION -90° DRILL TYPE SCOUT 250 COMPLETED 16.10.84 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] RQ	A	Composites RQ	A	M	VM	S	SE	FC
0	1.7	TRICONE ROLLER - PRECOLLAR																		
					0-0.5: Alluvium															
					0.5-1.7: Sandstone, lithic	EW														
1.7	3.7	1.9	95	NQ	1.7-5.9: Sandstone, lithic, mg, minor CPC	HW														
3.7	6.7	3.0	100	"	5.9-6.68: Sandstone, lithic, mg	HW														
				"	6.68-6.70: Coal, dull, fissile - oxidized	HW		989247	6.68	6.70	0.02	2.25	77.9							
				"	6.70-6.76: Mudstone, brown	"		248			0.06	2.32	83.5							
				"	6.76-6.82: Coal, dull - oxidized	"		249			0.06	2.13	64.1							
				"	6.82-6.97: Mudstone	"		250			0.15	2.28	84.3							
				"	6.97-7.01: Coal, dull - oxidized	"		251			0.04	2.25	79.8							
				"	7.01-7.06: Mudstone	"		252			0.05	2.26	84.1							
				"	7.06-7.10: Mudstone, ? carbonaceous	"		253			0.04	2.27	81.9							
				"	7.10-7.24: Coal, dull - oxidized	"		254			0.14	2.22	77.3							
				"	7.24-7.54: Mudstone, minor coal bands	"		255			0.30	2.29	84.5		Samples 989247 - 274 inclusive					
				"	7.54-7.58: Coal, dull - oxidized	"		256			0.04	2.09	63.4							
				"	7.58-7.61: Mudstone	"		257			0.03	2.33	80.5	2.25	75.0	8.2	6.0	0.29	3.32	10.8
				"	7.61-7.67: Coal, dull - oxidized	"		258			0.06	2.17	66.3							
6.7	9.7	3.0	100	"	7.67-7.73: Mudstone	"		259			0.06	2.35	82.0		Samples 989247, 249, 251, 254,					
				"	7.73-7.99: Coal, dull - oxidized, grey colour	"		260			0.26	2.15	64.1		256, 258, 260, 262, 264 and 265:					
				"	7.99-8.27: Mudstone, grey	"		261			0.28	2.41	85.1							
				"	8.27-8.35: Coal, dull - oxidized	"		262			0.08	2.37	82.0	2.16	68.4	8.5	6.7	0.40	5.54	16.4
				"	8.35-8.38: Mudstone	"		263			0.03	2.45	87.6							
				"	8.38-8.59: Coal dull - oxidized & soft	"		264			0.21	1.99	51.6		Samples 989266, 267, 268, 270					
				"	8.59-8.85: Coal, dull - relatively hard	"		(265			0.26	2.19	74.8		272, and 273:					
				"	and broken ... (? Dmb), orange zeolite	"		(						2.23	71.1	6.6	5.4	0.45	4.92	16.9
				"	8.85-9.10: Coal, dull, hard (≈ Dmb)	"		266			0.25	2.21	70.6							
				"	9.10-9.35: Coal, dull, hard (Db/Dmb)	"		267			0.25	2.02	51.9							
				"	9.35-9.55: Coal, dull, soft (? D/Dmb) inc. 40mm stone band	"		268			0.20	2.39	83.4							
				"	9.55-9.59: Mudstone	"		269			0.04	2.39	84.8							
				"	9.59-9.70: Coal, dull, hard/broken (? D)	"		270			0.11	2.25	72.3							
				"	9.70-9.81: Claystone	"		989271	9.70	9.81	0.11	2.41	85.6							

091

270092

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 PT-31

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 ACIRL) RD	A	Composites RD	A	M	VM	S	SE	FC
				NQ	9.81-9.98: Coal, dull, soft (D)	HW		989272	9.81	9.98	0.17	2.32	79.0							
				"	9.98-10.23: Coal, dull, hard (D/Dmb)	"		273			0.25	2.28	73.2							
9.7	12.7	3.0	100	"	10.23-10.36: Coal, heavy dull, ± carbonaceous mudstone	MW		274			0.13	2.47	87.6							
				"	10.36-10.74: Mudstone, carbonaceous	"		989275	10.36	10.74	0.38	2.50	89.6							
				"	10.74-12.18: Mudstone, grey to dark grey, variably	"														
					laminated, minor 1.3mm coal (B) plies															
				"	12.18-14.3: Siltstone, weakly laminated	F														
				"	14.3-16.22: Sandstone, lithic, f to mg, minor coaly															
12.7	15.7	3.0	100		stringers															
				"	16.22-16.28: Coal - wood - silicified															
				"	16.28-16.68: Siltstone, plant fragments and roots															
15.7	18.7	3.0	100	"	16.68-16.75: Sandstone, lithic, mg															
				"	16.75-17.20: Mudstone, grey/pale brown, roots															
				"	17.20-18.83: CPC of grey mudstone + silicified wood															
18.7	21.7	3.0	100	"	fragments in m to cg lithic sandstone															
				"	18.83-21.85: Sandstone, lithic, f to mg															
21.7	24.7	3.0	100	"	21.85-24.90: CPC - as for 17.2-18.83m															
24.7	27.7	2.95	98	"	24.90-30.45: Sandstone, lithic, f to mg ± CPC															
27.7	30.7	3.0	100	"	30.45-30.82: Mudstone, grey with 30mm thick silicified															
30.7	33.7	3.0	100	"	wood fragments at top															
33.7	36.7	3.0	100	"	30.82-42.45: Sandstone, lithic, f to cg, weakly laminated															
36.7	39.7	3.0	100	"	to - 34m (△So 70°/72°)															
39.7	42.7	3.0	100	"	42.45-43.10: Mudstone, grey & pale brown laminated,															
					spotted (? mud pellets)															
				"	43.10-43.50: Mudstone, silty, grey/brown															
				"	43.50-43.60: Coal, dull (D)			989276	43.50	43.60	0.10	2.45	84.0	(						
42.7	45.3	2.6	100	"	43.60-43.70: Mudstone, grey			277			0.10	2.50	89.9	(2.19	64.9	8.1	6.8	0.26	6.60	20.2
				"	43.70-44.40: Coal, dull, (Dmb)			989278	43.70	44.40	0.70	2.11	57.6	(						
				"	44.40-44.60: Mudstone, dark grey															
				"	44.60-45.30: 1B grey mudstone/siltstone/fg lithic sandstone															

092

270093

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 PT-31

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 ACIRL) RD	A	Composites RD	A	M	VM	S	SE	FC
				NQ	45.30-46.35: Sandstone, lithic, fg, minor grey mudstone															
					horizons															
45.3	48.4	3.1	100	"	46.35-47.57: 1B dark grey/carbonaceous ms/fg lithic															
					sandstone, (△ So 80/83°)															
				"	47.57-47.80: Sandstone, lithic, fg															
				"	47.80-48.80: Mudstone, dark grey silty & weakly laminated															
				"	48.80-49.00: Coal, dull, soft (Dmb)			989279	48.80	49.00	0.20	2.35	75.7							
				"	49.00-49.05: Mudstone, grey			280	49.00	49.05	0.05	2.57	93.1	2.32	74.3	4.6	4.3	0.24	5.30	16.8
				"	49.05-49.23: Coal, dull, soft (Db)			989281	49.05	49.23	0.18	2.22	66.5							
				"	49.23-49.60: Mudstone, grey															
				"	49.60-50.27: Sandstone, quartz with grey mudstone 1B's															
48.4	51.5	3.1	100	"	(△ So - 80°)															
				"	50.27-51.87: Mudstone, pale brown with coal (D) 51.03-51.06m															
				"	51.87-53.27: 1B siltstone (mottled) - pale green to brown															
51.5	54.6	3.08	99	"	mudstone (spotted) - fg feldspathic quartz sandstone -															
					mg lithic sandstone															
				"	53.27-57.7: Sandstone, lithic, mg with silicified wood															
54.6	57.7	3.0	100	"	fragments (+ ? matrix...suggestive of thermal alternation)															
					from 56.78-56.84m.															
					EOH - 57.70m															