

CO-ORDINATES 10800N 9360E AZIMUTH 47° (GRID EAST) DRILLERS PARRY COMMENCED 09:08:82 DEPTH 179.1 metres HOLE No. DD 82 807

RL COLLAR..... INCLINATION -46° DRILL TYPE BOYLES COMPLETED 15:08:82 CASING LEFT NIL DPO No(s) 30207

DEPTH		Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by <u>ANALABS</u>)								
From (M)	To (M)										Cu	Pb	Zn	As	B:	Mo	W	Sn	
0.0	0.3				TRUNCED - NO CORE														
0.3	38.0	21.1	NQ		<u>SILTSTONES</u>														
					<u>Grey to black laminated siltstones</u>	<u>Some lt gy bands more weathered</u>	<u>372872*</u>	<u>0.3</u>	<u>9.0</u>	<u>26</u>	<u>55</u>	<u>20</u>	<u>90</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>-</u>	<u>X</u>	
					<u>laminae often <0.5mm upto 2mm.</u>	<u>Py. min² upto 5% between 8+9.5m.</u>	<u>873*</u>	<u>9.0</u>	<u>4.0</u>	<u>38</u>	<u>30</u>	<u>10</u>	<u>70</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>-</u>	<u>10</u>	
					<u>with thin beds to 20cm. Thin</u>	<u>Pec. ss dykelets - flame structures</u>	<u>874*</u>	<u>14.0</u>	<u>20.0</u>	<u>385</u>	<u>20</u>	<u>10</u>	<u>85</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>-</u>	<u>X</u>	
					<u>beds carbonaceous gy bands more</u>	<u>from more sandy layers into more</u>	<u>875*</u>	<u>20.0</u>	<u>26.0</u>	<u>3.2</u>	<u>20</u>	<u>10</u>	<u>80</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>-</u>	<u>X</u>	
					<u>sandy &</u>	<u>fg. layers. Py min² 5% at 10m</u>	<u>876*</u>	<u>26.0</u>	<u>30.5</u>	<u>3.5</u>	<u>20</u>	<u>20</u>	<u>65</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>-</u>	<u>X</u>	
						<u>after 1-2% py @ 12m.</u>	<u>877</u>	<u>30.5</u>	<u>32.0</u>	<u>0.95</u>	<u>100</u>	<u>450</u>	<u>140</u>	<u>X</u>	<u>10</u>	<u>X</u>	<u>-</u>	<u>X</u>	
						<u>10.8m int. L 65°.</u>	<u>878*</u>	<u>32.0</u>	<u>38.0</u>	<u>3.2</u>	<u>30</u>	<u>15</u>	<u>50</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>-</u>	<u>8</u>	
					<u>13-38m Banded carbonaceous siltstones</u>	<u>Fault at 13m - broken at 13m</u>													
					<u>and occ med. gy sandstones, laminations</u>	<u>core - white - lt gy ellitic ss veinlets</u>													
					<u>in parts of core 1-2m but generally</u>	<u>after py.</u>													
					<u>5-15cm wide. More sandy lt gy</u>														
					<u>bands 13-15.5m above flame</u>	<u>V low int L of 20° at 21m</u>													
					<u>structures much core loss 17.5-20m.</u>	<u>int L 40° at 22m } indicates X-bedding</u>													
					<u>pyg - sandy - py - Fault?</u>	<u>int L 4° at 26m } slump structures.</u>													
					<u>Sandstone bands micaceous</u>														
					<u>25.8-26.3 dendritic py.</u>	<u>Core loss 29.5-30m - Fault?</u>													
					<u>Med gy ofite band 30.5-32.0m.</u>														
					<u>py upto 10% very fractured. At 35m</u>														
					<u>first fractured bands of ab. ellitic</u>														
					<u>pyritic sandstones (pale gr-gy).</u>	<u>Fault at 37.8m.</u>													
					<u>bands upto 10cm interbedded with</u>														
					<u>ab gy carbonaceous siltstones</u>														

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

TENEMENT NAME... ROCKY CAPE No. 777

PLAN - MAP REFERENCE... BALFOUR GRID

CO-ORDINATES... 10800N 9360E AZIMUTH... 47°m (GRID EAST) DRILLERS... PARRY COMMENCED... 09.08.82

DEPTH... 173.1 meters HOLE No. DD82 B67

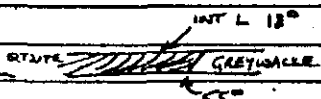
RL COLLAR... INCLINATION... -46° DRILL TYPE... BOYLES COMPLETED... 15.08.82

CASING LEFT... NIL DPO No(s) 30207

DEPTH (m)	To (M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by... ANALABS...)							
											Ca	Pb	Zn	As	Bi	Mo	W	Sr
0	57.6	17.08	NQ		<u>QUARTZITE</u> Med-lt gr-gy banded (upto 80cm) Fairly massive m-f.g. qtzite. Sl. mm giving speckled nature. Some siltstone intercalations. Some beds pale green - chlorite? Intersection angles 65° @ 40.5m 5° @ 41.3m 50° @ 43.5m 14° @ 48m 15° @ 50.5m 35° @ 56m.	Py upto 10% diam through core Fault at 42m on a very large joint - core fractured yellow clay on joint/fault? fractures Core v. pyrite at 50m - 10-15% Core mod fractured throughout. Thin 2cm of chlorite vein at 53.6m.	972873 880 881 882 883 884 885*	38.0 40.7 47.0 48.8 50.8 51.4 53.0	40.7 47.0 48.8 50.8 51.4 53.0 57.6	264 4.85 1.64 1.70 0.6 1.25 4.4	35 15 20 5 10 5 10	25 15 85 15 30 20 5	60 45 155 40 35 100 55	x x x x x x x	x x x x x x x	- - - - - - -	x 4 x x x x x	
76	80.0	22.08	NQ		<u>QUARTZITE - GREYWACKE</u> Quartzite - dk - v. dk gy carbonaceous - some bedding features often graded with SS venlets (flake? structures) - often more mineralized. S At 74.6m thin dk gy bed int. L. = 30° more argillaceous zone but 0.5m central zone porous vegy - po+py+Sr? sampled.	SS venlets - often py or po Slump and ocean structures esp. 62m. Core py + po Po increasing with depth Intersection angles 23° at 58.4m 41° @ 62.3m 26° @ 63.5m 18° @ 72.3m 26° @ 74m 30° @ 78m	886* 887 888* 889* 890* 891 892 893*	57.6 61.3 62.1 62.1 66.7 71.0 74.53 74.65 76.46	61.3 62.1 66.7 71.0 74.53 74.65 76.46 80.0	3.56 0.80 4.60 4.15 3.53 0.12 1.73 3.53	40 15 20 20 25 35 10 20	10 10 20 x x 40 10 x	70 55 115 105 85 75 50 55	x x x x x x x x	x x x x x x x x	- - - - - - - -	x x x x x x x x	

CO-ORDINATES 10800N 9360 E AZIMUTH 47° (GRID EAST) DRILLERS PARRY COMMENCED 09.08.82 DEPTH 179.1 meters HOLE No. DD82807

RL COLLAR INCLINATION -46° DRILL TYPE BOYLES COMPLETED 15.08.82 CASING LEFT N/A DPO No(s) 30207

DEPTH		Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by <u>ANALABS</u>)									
From (M)	To (M)										Cu	Pb	Zn	As	Bi	Mo	W	Sn		
80.0	98.3	18.0	NQ		<u>QUARTZITE</u>															
					med gy - m-c.g. some bedding evident at 81m. At 83.2-83.7m v. black c.g. carbonaceous? leached zone v. unusual.	min ² mainly po ² py. py restricted to joints. Fe veins aligned to cleavage direction. Intersection angles	972894 895 896 897	80.0 83.0 83.4 83.4 85.1	83.0 83.4 85.1 87.0	2.97 0.40 1.7 1.90	10 15 x 5	x 25 x 25	40 70 25 25	x x x x	x x x x	- - - -	x x 5 x			
					Unit becomes ab. finer grained at 86m - x-bedded, slump features more prominent. At 96m coarser grained bands also elliptical alt ² - transition zone - some beds more carbonaceous - greywacke	62° @ 81m 22° @ 84m 20° @ 88m 25° @ 94m	898 899 900 901 902	87.0 89.0 92.0 94.7 95.43	89.0 92.0 94.7 98.3	2.0 2.8 2.7 0.73 2.80	5 x 15 15 10	x 5 10 x 10	20 25 35 30 25	x x x x x	x x x x x	- - - - -	x x x x x			
58.3	111.4	12.23	NQ		<u>QUARTZITE - GREYWACKE</u>															
					med - lt gr gy m-c.g. X-bedded slump structures - loading features SS - dykes occ. qtzite bands which seem to contain more po min ² Greywacke beds poorly sorted but of graded wacke beds at 109m often very low. (eg) 109m // to core.	100m  INT L 18° 55°	903 904 905 906 907 908 909 910	98.3 99.4 101.0 104.0 106.45 106.45 107.35 108.55 110.15	99.4 101.0 104.0 106.45 107.35 108.55 110.15 111.4	0.85 1.6 2.86 2.2 0.9 1.20 1.47 1.15	20 30 15 35 15 40 25 20	20 40 x 20 5 20 15 5	50 50 40 40 40 35 45 45	x x x x x x x x	x x x x x x x x	- - - - - - - -	x x x x x x x x			
						(There is about 20° of rotation between maximum readings)														
111.4	155.0	42.64	BQ		<u>GREYWACKE</u>															
					Med - v. dk gy fairly massive unit (first 2m fine banded) At 134.2m (20cm) tuff band At 141.0m (10cm) tuff band	po. min ² strong until 113.6m then po blebs and py on joints not so min ² . Core heavily broken at 120m - fractured.	911 912 913* 914*	111.4 113.4 114.03 116.23 116.23	113.4 114.03 116.23 119.0	1.58 0.63 2.2 2.7	30 30 30 35	25 45 10 10	45 60 70 105	x x x x	x x x x	- - - -	x x x x			

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

SHEET No. 4 of 5

TENEMENT NAME..... ROCKY CAPE..... No. 177PLAN - MAP REFERENCE..... BALFOUR GRIDCO-ORDINATES..... 10800N..... AZIMUTH..... 9960 E..... (GRID EAST)..... DRILLERS..... PARRY..... COMMENCED..... 09.08.82..... DEPTH..... 179.1m..... HOLE No. DD 82 807RL COLLAR..... INCLINATION..... -46°..... DRILL TYPE..... ROYLES..... COMPLETED..... 15.08.82..... CASING LEFT..... Nil..... DPO No(s)..... 30207

DEPTH om M)	Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by..... <u>ANALABS</u>)							
										Cu	Pb	Zn	As	Bi	Mo	W	Sn
				Greywacke - qtzite 140-144m less argillaceous but still dk gy. Occ fine lt gy - white fracture - joint infillings - 2 nd qtz - carb?	Intersection angles:- 15° @ 115m 5° @ 121m 35° @ 127m 43° @ 130m 50° @ 134.2m (tuff bed U. contact) 25° @ 140m 60° @ 141m (tuff bed) 15° @ 148m 42° @ 152m.	92916*	122.0	125.0	3.0	30	x	60	x	x	x	-	x
						917*	125.0	128.0	3.0	45	x	80	x	x	x	-	x
						918*	128.0	131.0	3.0	20	x	65	x	x	x	-	x
						919*	131.0	137.0	5.53	30	x	90	x	x	x	-	x
						920*	137.0	143.0	6.0	25	S	75	x	x	x	-	x
						921	143.0	146.0	3.0	25	S	50	x	x	x	-	x
						922*	146.0	152.0	6.0	25	S	55	x	x	x	-	x
						923	152.0	155.0	3.0	S	x	25	x	x	x	-	x
155.0	158.0	3.0	BQ	GREYWACKE AND QUARTZITES													
				V. dk gy argillaceous qtzite and med gy qtzite bands - often swart? qtz veins upto 10mm with creamy clay infilling - often carbonate? - py upto 5% - banded.	Mod. fractured becomes v. fractured chlorite alt ⁿ 156.8m - fault slickensided core over 10cm. Int. L's 45° @ 156m 63° @ 157.7m.	924	155.0	158.0	3.0	x	x	35	x	x	x	-	x
158.0	160.5	2.38	BQ	FAULT ZONE													
				leached for first 0.5m - fractured core several pug zones - pale yellow clayey - pyritic.	Chlorite alt ⁿ - qtz veining py min ⁺ associated - fractured.	925	158.0	159.0	0.9	x	x	40	x	x	x	x	x
						926	159.0	160.5	1.48	S	x	60	x	x	x	x	x
160.5	170.0	3.3	BQ	BANDED MUDSTONES AND QUARTZITES													
				Med-dk gy chloritic mudstones rhythmically banded with quartzites Banding 0.5mm to 30mm. Heavily fractured with many thin swart? qtz veins with ass. py. min ⁺ . Fault pug 169m	Chloritic mudstones with very fractured, swart? qtz veining developed - close to major fault zone.	927	160.5	162.5	1.9	x	x	55	x	x	x	6	x
						928	162.5	164.0	1.47	x	x	35	x	x	x	x	x
						929	164.0	165.27	1.2	S	x	45	x	x	x	S	x
						930	165.27	167.12	1.85	x	x	30	x	x	x	x	x
						931	167.12	170.0	2.88	x	x	35	x	x	x	17	x

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