

831050

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

SHEET No. 1

149

5362355N

CO-ORDINATES 360160E AZIMUTH 320° true (30R) DRILLERS D.K. PARRY COMMENCED 30-7-81 DEPTH 200.0M HOLE No. P2810C10
 RL COLLAR 243.7 INCLINATION -45° DRILL TYPE BOYLES 37 COMPLETED 12-8-81 CASING LEFT DPO No(s) 30162-163

TENEMENT NAME O.R.N.A.H. No.

PLAN - MAP REFERENCE

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 P.N.A.L.D.S.)					
From (M)	To (M)										Si	W	Cu	Pb	Zn	Ag
0	9.0				TRILITE		G 001	9.0	17.3	4.8	60	7	60	1350	740	6.0
9.0	17.3		NQ		VOLCANICS	Vesicular, fragmental Occasional pyrite	G 002 G 003	17.3 23.1	23.1 27.0	4.6 3.7	76 -	44 81	50 45	710 85	1700 180	5.5 0.5
17.3	19.0				QUARTZITE	Abundant pyrite + quartz veining	G 004 G 005	27.0 30.0	30.0 33.0	3.0 3.0	- 4	56 68	45 55	120 210	560 305	- 0.5
19.0	21.7				GREY SHALE	Minor pyrite	G 006	33.0	36.0	3.0	-	31	40	45	140	0.5
21.7	22.6				QUARTZITE		G 007	36.0	39.0	3.0	58	80	60	200	940	1.5
22.6	23.1				GREY SHALE	Minor pyrite	G 008	39.0	42.0	3.0	6	83	60	195	220	1.0
23.1	51.4				QUARTZITE	Some sections have abundant pyrite + quartz veining	G 009 G 010	42.0 45.0	45.0 48.0	3.0 3.0	56 76	81 52	50 70	250 100	275 105	1.0 2.0
51.4	65.4		BQ	57.0	GREY SHALE	Some pyritic sections Quartz veins AA 64m bedding 75° to axis	G 011 G 012 G 013	48.0 51.4 57.0	51.4 57.0 59.5	3.3 4.8 2.4	111 8	76 26	60 60	140 275	70 320	1.5 1.0
65.4	67.3				BLACK SHALE	Pyrite with quartz veins Bedding 70° to core axis	G 014 G 015	59.5 62.5	62.5 65.4	3.0 2.8	- 10	14 22	65 45	180 125	200 85	1.0 2.0
67.3	68.3				QUARTZITE	Minor pyrite + quartz veins	G 016	65.4	67.3	1.9	270	9	50	90	50	5.0
68.3	69.2				GREY SHALE		G 017	67.3	70.5	3.2	76	53	50	50	45	1.5
69.2	70.5				QUARTZITE											
70.5	75.5				GREY SHALE	Well bedded (60°-70° to core) Quartz + carbonate veining Some pyrite	G 018 G 019	70.5 73.5	73.5 77.5	3.0 4.0	43 34	30 44	55 65	60 100	65 115	3.0 2.5
75.5	76.3				QUARTZITE	Quartz carbonate, pyrite										
76.3	81.5				GREY SHALE	Well bedded. (70° to core) Minor quartz carbonate pyrite	G 020 G 021	77.5 80.5	80.5 84.0	3.0 3.0	10 19	24 37	50 60	70 60	55 60	1.0 1.0
81.5	83.6				BRECCIA	Grey shale + quartz fragments										
83.6	84.0				GREY SHALE											
84.0	93.7				QUARTZITE	Abundant quartz-pyrite veins Pyrite-galena rich 85.5-86.5	G 022 G 023	84.0 85.5	85.5 86.5	1.5 1.0	123 683	56 -	55 700	180 1450	85 1050	0.5 2.5
93.7	95.0				BLACK SHALE	Pyrite Quartz veining	G 024	86.5	90.0	2.5	31	58	65	220	180	1.0
95.0	96.8				QUARTZITE	Minor pyrite quartz veins Subordinate grey shale	G 025 G 026	90.0 93.7	93.7 97.5	3.7 3.6	26 2480	73 53	60 60	80 60	100 155	1.0 1.0

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

SHEET No. 2 No.

TENEMENT NAME..... No.

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. 2221.02.10

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

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.....)							
From (M)	To (M)										Sn	W	Ca	Pb	Zn	Ag		
96.8	102.8				GREY SHALE (Subordinate quartz)	Some quartz veins, minor pyrite Well bedded. Minor folds Dipping 60-80° to core axis	G 027	97.5	100.5	3.0	16	41	175	25	210	-		
							G 028	100.5	102.8	2.3	14	21	85	35	155	-		
102.8	106.0				QUARTZITE (Subordinate grey shale)	Quartz, carbonate veins Minor pyrite	G 029	102.8	106.0	2.3	407	32	65	60	100	-		
106.0	106.5				GREY SHALE		G 030	106.0	108.5	2.5	117	100	170	30	140	-		
106.5	107.3				QUARTZITE	Abundant pyrite Narrow pyrite - galena 108.5-109												
109.3	109.7				BLACK SHALE	Qz-carbonate pyrite veins	G 031	108.5	109.1	0.6	2260	31	4700	1400	3800	28.0		
109.7	115.7				QUARTZITE	Qz, pyrite veins	G 032	109.1	113.0	2.7	307	86	295	130	125	1.5		
115.7	117.0				GREY SHALE	Well bedded, 60-70° to core	G 033	113.0	117.0	4.0	2760	33	400	2900	60	42.5		
117.0	121.3				QUARTZITE (Subordinate grey shale)	Minor pyrite, quartz veins	G 034	117.0	119.0	2.0	374	14	40	330	25	2.0		
121.3	128.3				GREY SHALE	Minor pyrite. Well bedded, parallel to core. Minor folds N11-124N bedding 60° to core	G 035	119.0	121.5	2.5	626	15	25	65	40	-		
							G 036	121.5	125.0	2.8	720	-	30	40	30	-		
							G 037	125.0	128.3	4.3	1010	-	25	10	25	-		
128.3	130.5				QUARTZITE		G 038	128.3	130.5	2.2	458	7	20	20	30	1.5		
130.5	133.0				GREY SHALE (Subordinate black shale)	Well bedded. Minor folds	G 039	130.5	133.0	2.4	439	12	40	15	30	-		
133.0	137.7				QUARTZITE (Subordinate grey shale)	Quartz, carbonate veins	G 040	133.0	136.5	3.5	91	19	40	300	85	1.0		
137.7	139.5				GREY SHALE	Bedding 50°-60° to core	G 041	136.5	139.5	3.0	53	6	45	45	40	-		
139.5	145.7				QUARTZITE (Minor grey shale)	Quartz veins	G 042	139.5	142.5	3.0	123	-	25	30	120	-		
145.7	149.5				GREY SHALE (Subordinate quartzite)		G 043	142.5	145.5	3.0	91	-	30	60	100	-		
149.5	152.8				QUARTZITE (Subordinate grey shale)	Quartz veins. Minor pyrite	G 044	145.5	148.5	3.0	10	-	35	30	30	-		
152.8	155.5				GREY SHALE	Carbonate veins	G 045	148.5	151.5	3.0	9	17	75	160	695	-		
155.5	156.5				QUARTZITE		G 046	151.5	154.5	3.0	5	13	75	60	115	0.5		
156.5	161.2				GREY SHALE		G 047	154.5	160.5	4.1	34	10	60	50	75	-		
161.2	163.5				QUARTZITE	Quartz, carbonate veins.	G 048	160.5	163.5	3.0	-	15	60	50	60	-		
163.5	164.8				GREY SHALES	Bedding 80°-90° to core	G 049	163.5	164.8	4.3	71	14	50	50	35	-		
164.8	167.0				QUARTZITE		G 050	164.8	172.5	3.0	5	4	65	45	75	-		
167.0	171.0				GREY SHALE		G 051	172.5	175.5	3.0	9	8	40	35	30	1.0		
171.0	173.5				QUARTZITE (Subordinate grey shale)	Quartz, carbonate veins												
173.5	175.8				GREY SHALE	Well bedded, 90° to core												

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

SHEET No. 3

101

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

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. *DD81/0010*

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

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.....)							
From (M)	To (M)										Sn	W	Cu	Pb	Zn	Ag		
175.8	185.3				QUARTZITE	Quartz, carbonate veins	G 974052	175.5	178.5	2.4	-	26	70	65	255	1.0		
						Subordinate grey shale off. 184.5	G 053	178.5	181.5	2.9	-	20	55	30	65	-		
185.3	186.5				GREY SHALE	Bedding 60°-65° to core	G 054	181.5	184.5	2.9	4	13	55	10	80	-		
						Mineral folds. Mineral pyrite												
186.8	187.0				QUARTZITE (Subordinate grey shale)		G 055	184.5	187.5	2.7	85	22	65	35	50	1.5		
187.0	190.8				GREY SHALE		G 056	187.5	190.8	3.1	13	35	85	60	305	1.5		
190.8	194.4				QUARTZITE	Pyrite-rich section 191-193 m	G 057	190.8	191.7	0.8	163	-	1450	375	255	6.5		
194.4	200.0				GREY SHALE (Subordinate quartzite)	Bedding 20°-60° to core	G 058	191.7	192.3	1.0	262	6	1800	570	155	2.5		
						Quartz veins & mineral pyrite	G 059	192.3	193.3	1.1	26	-	45	40	25	-		
							G 060	193.3	197.0	2.5	47	16	30	25	55	-		
					200.0M E.O.H.		G 061	197.0	200.0	2.9	22	-	40	10	55	-		
					Survey:	Depth	Azimuth	Inclination										
						50	275° MAG	-45°										
						100	290°	-45°										
						150	302°	-45°										
						200	301°	-45°										
					REPEAT ASSAYS BY A6/3 METROP		974023	85.5	86.5				750	1468	1118	39		
							974031	108.5	109.1				4700	1450	3625	32		
							974033	113.0	117.0				375	2950	50	44		
							386						1428	150	108			
							387						775	150	169			

DEPTH		Core Rec. (M)	Core Size	Graphic Log	CORE DESCRIPTION	SPECIAL FEATURES Weath, Alteration, Fracturing, Veining, Mineralization GRIND NO.	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)						
From (M)	To (M)										Sn	W	Cu	Pb	Zn	Ag	
						974026	974381	93.7	94.7	3500	-	30	145	55	3.5		
						026	382	94.7	95.7	20	-	5	15	90	0.5		
						026	383	95.7	96.7	130	-	5	5	40	1.0		
						026	384	96.7	97.5	30	-	25	55	80	2.0		
						033	385	113.0	114.0	140	-	30	60	20	1.0		
					Disseminated galena. Pyritic. Silicified, quartz vugs	033	386	114.0	115.0	6800	-	1350	1450	70	105.0		
					Silicified pyritic section in grey slate (poor recovery)	033	387	115.0	116.0	128	-	640	645	70	110.0		
						033	388	116.0	117.0	250	-	30	215	20	4.0		
						034	389	117.0	118.0	1650	-	40	365	15	3.5		
						037	390	125.0	126.0	1650	-	20	-	25	1.0		
						037	391	126.0	127.0	330	-	10	-	25	1.0		
						037	392	127.0	128.3	930	-	10	-	40	1.5		
						034	974464	118.0	118.5	380	25	45	590	25	3.0		
						034/5	465	118.5	119.5	160	15	5	50	15	1.0		
						035	466	119.5	120.5	430	15	20	95	30	1.0		
						035	467	120.5	121.5	880	-	15	10	10	1.0		
						036	468	121.5	122.5	1450	20	25	15	15	0.5		
						036	469	122.5	123.8	740	15	15	10	20	0.5		
						036	470	123.8	125.0			5	30	25	1.0		