

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

SHEET No. 1  
TENEMENT NAME EL 1/77 ROCKY CAPE No. ALPINE PROSPEC  
LOGGED BY G. PURVIS

CO-ORDINATES 9100E, 9385N AZIMUTH 357° AMG (346° MAG) DRILLERS OVERLAND COMMENCED 22.1.85 DEPTH 106.7m HOLE No. PD 85 AP 1  
RL COLLAR 192m INCLINATION -65° DRILL TYPE WARMAN 500 COMPLETED 30.1.85 CASING LEFT PVC to 24m DPO No(s) 21928

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 ANALABS)									
From (M)	To (M)										Cu	Pb	Zn	Ag	Au					
PERCUSSION																				
0	7				AMYGDALOIDAL MAFIC LAVA Pale yellow and grey. Soft, highly weathered and clayey. Fine gr, with 1-3mm amygdaloids filled with zeolite	5-7m, minor limonite stains. 1 thin qtz vein.	1154601	0	3			35	10	40	<.5					X = <.008 ppm
							1154602	3	5			70	10	25	<.5	X				
							1154603	5	7			90	<.5	45	<.5					
7	12				CEMENTED QUARTZ GRIT AND SILICEOUS 'GREY BILLY' An alluvial deposit cemented by silica. Yellow-brown. Hard. Qtz grit with silica-limonite cement; qtz-pebble conglomerate with silica- limonite cement; and massive amorphous silica ('grey billy')	Highly limonite-stained.	1154604	7	9			90	<.5	100	<.5	X				
							1154605	9	11			80	<.5	85	<.5					
							1154606	11	13			65	<.5	100	<.5	X				
12	18				Pale grey QUARTZ-MICA SCHIST Black GRAPHITIC SCHIST, and soft, black CARBONACEOUS METASILTSTONE Minor vermicular BARRETT 13-15m E minor py.	Qtz veins to 25mm, generally <10mm 1-5% dissem py. Some py in qtz veins, and as thin beds (<1mm) in metasiltstone.	1154607	13	15			25	<.5	40	<.5					
							1154608	15	17			25	<.5	30	<.5	X				
							1154609	17	18			20	<.5	20	<.5					
18	30				FAULT ZONE Pale green + white QTZ-SERICITE SCHIST Leader, black + white QTZ-GRAPHITE-MICA SCHIST Minor, pale grey, finely laminated QTZ- MICA SCHIST. QUARTZITE PEBBLES coated with	Interval characterized by abundant veins and irreg masses of vuggy xylline qtz. 1-10% dissem py. Au 2-3%, strongest 20-24m. Poss arsenopy 22-24m. Hole making abd of water commencing at 18m.	1154610	18	20			5	<.5	100	<.5	X				
							1154611	20	22			10	<.5	65	<.5					
							1154612	22	24			5	5	50	<.5	X				
							1154613	24	26			5	<.5	25	<.5					
							1154614	26	28			5	<.5	20	0.5	X				
							1154615	28	30			5	<.5	15	<.5					

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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. D85AP1  
RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 31930

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 ANALAB)							
From (M)	To (M)										Cu	Pb	Zn	Ag	Au			
62.00	83.60	21.60	NQ		QUARTZ-MICA-CARBONATE SCHISTS	62-75.4m: 1-2% py, dissem + veinlets	11SA751	62	64		35	15	35	0.5				
					After variable sequence of finely bedded sandstones, siltstones, grey and black shales. Minor graphitic sections	Rare trace cp. Trace cp-sp-gr in qtz vein @ 69.3m.	752	64	66		45	20	30	0.5				
					Pale grey to greenish-grey	75.4-83.6m: 5-10% py, dissem + in veinlets, but mostly in massive and semi-massive bands // schistosity	753	66	68		30	15	55	0.5				
					Trace chlorite, increasing below 82.1m	Best of these:	754	68	70		35	45	150	0.5				
					Highly micaceous 75-77.5m.	76.7m: 200mm, 45°/LCA.	755	70	72		30	10	60	1.0				
					Disse, irreg qtz-carb veins and patches up to 70mm, esp in silicified zones 62-62.7m, 74.45-74.9m, 77.65-79.9m.	77.2m: 100mm, 45°/LCA.	756	72	74		30	20	55	1.0				
					Minor breccia zones.	78.1m: 100mm, 60°/LCA. Minor arsenopy	757	74	76		175	15	100	0.5				
					Schistosity (after bedding): 48°/LCA @ 70.2m, 53°/LCA @ 82.4m.	78.35m: 100mm, 45°/LCA.	758	76	78		290	70	1550	0.5				76-84.2m c
					Basal contact 75°/LCA.	79.3m: 40mm, 50°/LCA. Trace cp-arsenopy.	759	78	80		970	40	1000	0.5				8.2m @ 0.19% Zn
						81.8-82.1m: 300mm, 60°/LCA. 5% sp-gr	11SA760	80	82		290	115	4150	0.5				
						83.6m: 30mm, 55°/LCA. Minor cp-sp	761	82	84.20	2.2	1050	75	920	0.5				
						Minor arsenopy-cp-sp-gr, below 78.1m.												
																		82.0-94.75 =
																		12.75m @ 0.24% Cu
83.60	84.20	0.60	NQ		QUARTZ-MICA-CHLORITE SCHIST	3% dissem + veinlet py. Minor cp.												
					Green.													
					Some irreg qtz veins													
84.20	85.15	0.95	NQ		SEMI-MASSIVE BANDED SULPHIDE		11SA762	84.20	85.15	0.95	4600	30	85	0.5				
					Upper contact 65°/LCA, lower 30°/LCA.													
					Sulphide banding 45°/LCA.													
					Bands and clots of py-magnetite-hematite in gangue of carb > qtz > chlorite, 1-2% cp.													
					Intercalation of chlorite schist 84.5-84.6m.													
85.15	87.50	2.35	NQ		QUARTZ-CHLORITE SCHISTS	5% dissem py, locally 10%. Trace cp.	11SA763	85.15	87.50	2.35	1000	15	65	0.5				
					Probably after chert and mafic tuffs. Sulph often conc in bands // schistosity.													

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

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. PD85AP1

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 31930

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 ANALABS)						
From (M)	To (M)										Cu	Pb	Zn	Ag	Au		
					Green and creamy-grey Minor carb and mica. Some diffuse patches of xylite. gr-carb.	Trace magnetite in upper 0.3m.											
87.50	92.85	5.30	NQ		<u>BANDED SEMI-MASSIVE TO MASSIVE PYRITE - MAGNETITE</u>	Leaver hematite. 1% cp (locally 2%) Trace gn-sp. Some chalcocite and bornite 91.5 - 92.85m.	1154764	87.50	89.50	2.0	5000	20	50	1.0			
					Upper contact 38°/LCA. Sulph + mag gen more massive towards upper + lower margins of zone. Gr > carb gangue. Very hard. Minor chlorite. Pts hematite @ 90.5m Banding in sulph: 43°/LCA @ 88-1m, 52°/LCA @ 92m. Basal contact a shear 65°/LCA.		765	89.50	91.50	2.0	990	20	40	0.5			
							766	91.50	92.85	1.35	3000	25	65	20.5			
92.85	93.75	0.35	NQ		<u>SHEAR ZONE IN QUARTZ-CHLORITE - CARBONATE SCHIST</u> 60°/LCA, Minor mica and dark magnesian chlorite	7-10% dissem py. Minor cp. Highly broken and clayey.											
93.75	96.75	2.55	NQ		<u>QUARTZ-MICA SCHIST</u>	3-5% py, minor persistent cp.	1154767	92.85	94.75	1.9	2600	10	75	20.5			
					After finely bedded gneiss sandstones, siltstones and black shales. Minor graphitic zones. Minor chlorite + carb. Main shear continues to 94.3m - highly broken, with irreg gr veins to 80mm. Below this, some sheared micaceous zones and brecciated gneiss zones. Schistosity (after bedding) 50°/LCA @ 95.8m.		768	94.75	96.75		175	5	40	1.0			
96.75	106.70	8.70	NQ		<u>GRAPHITIC SCHIST</u> After black shales	7-10% dissem py. Some as clots after clusters of coarse deformed py xyls to	1154769	96.75	99		70	5	60	1.0			
							770	99	101		70	10	60	1.0			

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

SHEET No. 5

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

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. **1285AP1**

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) **31930**

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 <b>ANALABS</b> )							
From (M)	To (M)										Cu	Pb	Zn	Ag	Au			
					A qtz-graphite-mica ± chlorite rock. 15mm. Tiny (<<1mm) threads of py		1154771	101	103		70	10	80	1.0				
					Black & pale grey qtzose bands. // schistosity.		772	103	105		60	15	100	1.5				
					Highly schistose, brecciated in places. Irreg qtz ± carb ± chlor veins to 100mm		773	105	106.70		60	5	45	1.0				
					Gen. badly broken. 100mm puggy clay zone @ 99.8m. ± rare trace py.													
					Schistosity 63°/LCA @ 98.5m, 50°/LCA @ 103m.													
					END OF HOLE													