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

SHEET No. 1 of 4

TENEMENT NAME RAZORBACK No.

LOGGED BY: G. PURVIS

CO-ORDINATES 4760N 2994 E AZIMUTH 270° GRID (250° MAG) DRILLERS K. PARRY COMMENCED 13·6·80 DEPTH 298 m HOLE No. RC 3

RL COLLAR 273·5 m approx INCLINATION 48° DRILL TYPE BOYLES 37 COMPLETED 27·6·80 CASING LEFT 6m NW DPO No(s) 26454

DEPTH From (M)	DEPTH 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 AMDEL, ZC.) ppm Sn	W	Pb	Zn	Cu	Ag	Pt
0	6	NIL			Tricone - no core.												
6	227·05	217	NQ to 167·6m then BQ		SERPENTINITE Examined in detail down to 123·2m - this core rejected after sampling. Light and dark green, fine to med gr, massive, even-textured. Talcose. Main rock type is massive dark green serpentinite with blotchy lighter green zones. Occasionally dark green. Blotches in lighter green groundmass possibly after breccia? Mod - strongly magnetic due to 5-15% magnetite - haematite usually disseminations in carb± talc ± qtz veins up to 15mm. Minor chromite. Some veinlets of asbestos gen 1-2mm, up to 10mm. Rare trace po in carb-qtz-talc veins. Some broken zones above 25m. Asbestos veining common 6-27m (5-6/m > 2mm up to 10mm); 45-51m - asbestos veins 2-3mm make up 5-10% of rock. Vague lineation at 55·5m 55°/LCA. Breccia clast lineation 70m 45°/LCA. 78·4 - 81·4m: Puggy shear zone. 91·3 - 91·7: Clayey shear zone 30°/LCA. Clast lineation 104m: 40°/LCA. 121·9 - 123·2m: Numerous serpentine - asbestos - magnetite filled shears 40°/LCA.		795454+	6	10									
							55+	10	15								<·04
							56+	15	20								
							57+	20	25								
							58+	25	30								
							59+	30	35								
							795460+	35	40								<·04
							61+	40	45								
							62+	45	50								
							63+	50	55								
							64+	55	60								
							65+	60	65								<·04
							66+	65	70								
							67+	70	75								
							68+	75	80								
							795469+	80	85								
							795438+	85	90								
							39+	90	95								
							795440+	95	100								<·04
							41+	100	105								
							42+	105	110								
							43+	110	115								
							44+	115	120								
							795445+	120	125·4								<·04

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

SHEET No. 2 of 4

TENEMENT NAME RAZORBACK No.

PLAN – MAP REFERENCE

CO-ORDINATES AZIMUTH DRILLERS COMMENCED DEPTH HOLE No. RC 3

RL COLLAR INCLINATION DRILL TYPE COMPLETED CASING LEFT DPO No(s) 26454, 53

DEPTH From (M)	DEPTH 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 AMDEL, ZC.) Sn (ppm)	W (ppm)	Pb (ppm)	Zn (ppm)	Cu (ppm)	Ag (ppm)	Au (ppm)	Pt (ppm)
227·05	267·3	40·15	BQ		TALC-CARBONATE	Upper contact 50°/LCA.	795446+	227	230		6	<10	50	110	24	<1		
					Grey, pinkish-grey or almost black,	Abundant carbonate veins up to	47+	230	233		8	<10	34	115	7	<1		
					variably textured massive. Composed	5mm, rarely to 50mm. Often	48+	233	236		4	<10	41	138	8	<1		
					mostly of fine talc with granular	irregular with indistinct margins.	795449+	236	239		10	<10	19	93	6	<1		
					carbonate about 1mm.	Little or no jointing or shearing.	795476+	239	242		8	<10	14	65	5	<1		
					Variable magnetite and haematite	227·95 – 238m: 5-7% magnetite	77+	242	245		32	<10	6	51	4	1		
					throughout, also brown Fe carbonate?	mostly fine grained, but also stringers	78+	245	248		250	<10	9	90	11	1		
					Lineation @ 248·6m 35°/LCA.	in carb veinlets. Rare po in these	795479+	248	249·45		95	<10	10	65	8	<1		
					Lineation @ 260·2m 20°/LCA.	stringers. Core mod magnetic.	795475	249·45	251·20		980	<10	150	107	740	3	<·04	
					Lineation @ 264·5m 20°/LCA.	238 – 239·7: <1% py, po, trace cp.	795480+	251·20	254		14	<10	8	57	8	<1		
					Lineation @ 266m 45°/LCA.	-minor ± haematite/magnetite (3%)	81+	254	257		18	<10	9	63	5	<1		
						239·7-242: 1% py>>po 1-3% haematite	82+	257	260		16	<10	14	57	5	<1		
						246·5-248: 1% po>py 1-3% Fe minerals	795483+	260	262		6	<10	13	93	6	<1		
						249·5: 50mm fine width band of	795470	262	264		16	<10	11	25	10	<1	<·04	
						foliation 40°/LCA. 50% po, minor py,	71	264	264·35		640	<10	370	5800	650	7	<·04	0·04
						cp + sp in qtz-carb gangue. Band	72	264·35	264·95		170	10	280	640	130	1	<·04	
						of lineation in talc carbonate. Silic margins.	73	264·95	265·80		3750	100	1600	2700	8800	42	<·04	0·04
						249·5 – 250·5: Strongly lineated and	795474	265·80	268		240	<10	36	64	27	<1	<·04	
						intensely brecciated fg ± minor	795484+	268	271		6	<10	16	119	5	<1		
						po, py, cp. Rare qtz veining. <1% Fe min.	85+	271	274		6	<10	29	210	6	1		
						250·5: 40mm fine width band of	86+	274	277		<4	20	27	138	37	<1		
						foliation 40°/LCA. 30% po>cp>sp-py	87+	277	280		8	15	24	93	27	1		
						in qtz-carb gangue	88+	280	281		8	10	30	182	23	2		
						250·8: 100mm of qtz-carb ± 3-5% py+po.	795489	281	282·3		4	<10	92	44	140	1		
						264 – 264·35m: Band of po (60%)>	795490+	282·3	285		4	25	20	210	100	2		
						py, sp, ga + stannite? in qtz-wollastonite												
						gangue + 3-4cm margins of same.												
						Approx 60°/LCA - cuts across lineation.	Note: + denotes sample taken with core grinder.											
						264·35 – 264·95: 5% po, sp, py in												
						ht ± qtz-wollastonite veins 60°/LCA												

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

SHEET No. 3 of 4

TENEMENT NAME: RAZORBACK No. ....

PLAN – MAP REFERENCE ....

CO-ORDINATES .... AZIMUTH .... DRILLERS .... COMMENCED .... DEPTH .... HOLE No. RC 3

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

DEPTH From (M)	DEPTH 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 ....) PPM
						264.95–265.85: MASSIVE PYRRHOTITE. Upper contact 60°, banding in sulphides 50°/LCA, lower contact 45°/LCA. Massive po > cp - arseno >> gn, sp, py Trace stannite? Some qtz-wollastonite on margins of band. Lower contact ∥ to schistosity (lineation) in tc.					
267.3	282.2	14.9	BQ		VARIABLE TALC CARBONATE Pink, grey or black, variable textured and often with strong lineation. Very talcose in black zones which are mostly above 271m. These zones contain carbonate in rounded aggregates up to 50mm. Elsewhere rock appears 'sandy' with vague clast-like features (< 20mm) below 279m - these possibly arranged in 'beds' at 282m. Rock is siliceous and hard below 281.6m. Lineation: 45°/LCA @ 273m 50°/LCA @ 278.5m (bedding?) 45°/LCA @ 282m (bedding?) Basal contact 45°/LCA - approx ∥ lineation. Sharp, clean break.	Core non-magnetic - some magnetite, haematite & chromite. Trace po + py + cp - up to 1% in places below 276m. - minor sulphides near basal contact 275–279.3: Numerous strong carb-qtz veins 45°/LCA at rt ∠s to rock lineation. Barren. Have silicified surrounding rock for 10-20 cm.					
282.2	282.3	0.1	BQ		ALTERED BASIC TUFF Dark green, strongly sheared, chloritic. Small clasts drawn out by shearing - up to 10mm, av < 4mm, in sandy matrix. Not siliceous. Lower contact - bedding - 40°/LCA.	1-2% po, py, cp.					

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

SHEET No. 4 of 4

TENEMENT NAME RAZORBACK No.

PLAN – MAP REFERENCE

CO-ORDINATES AZIMUTH DRILLERS COMMENCED DEPTH HOLE No. RC 3

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

DEPTH From (M)	DEPTH 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)
282·3	298	15·7	BQ		CONGLOMERATE Hand. Pale green, with matrix of quartz and carbonate. Clasts of basic volcanics, pale chert, black chert, green greywacke, siltstone. Basic volcanics comprise flow rocks & lavarenite, and tuff. Clasts up to 70mm, average 20mm, in sandy and gritty matrix cemented by silica + carbonate. Matrix also contains much basic volcanic material - is chloritic. Bedding 283·5m : 40°/LCA. Bedding 286m : 55°/LCA. Some soft-sediment features - irregular angular clasts - bent clasts. Bedding poor. Bedding 296m : 55°/LCA. END OF HOLE. Hole surveys (Eastman Camera): DEPTH DIP AZIMUTH 100m 47°40' 248° 30' 145m 47°45' 249° 40' 180m 47° 20' 250° 240m 46° 20' 243° 285m 46° 15' 240°	Occasional thin qtz-carb veins. Some flexage and deformation of bedding near contact with basic tuff. Minor po, py + cp down to 284m, then only trace sulphides. Minor gouk deformation due to haematite below 292m.					

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