

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

808011

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

PLAN - MAP REFERENCE.....

CO-ORDINATES...4640 N 3031 E..... AZIMUTH...250° MAG (GRID U)..... DRILLERS...PARRY..... COMMENCED...24-10-81..... DEPTH...404.0 m..... HOLE No...DR 81 RC 5.....

RL COLLAR...253.7..... INCLINATION...-55°..... DRILL TYPE...BOYLES 37..... COMPLETED...8-3-82..... 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)										S _M	V	Ca	Pb	Zn	Ag	Ni	Cr	
	51.0				TRICONE IN SERPENTINITE		974505	51.0	59.0		3	-	5	12	40	-	2300	240	
51.0			NQ		SERPENTINITE		506	59.0	65.0		5	-	-	10	40	-	2100	390	
							507	65.0	71.0		5	-	-	10	40	-	2050	335	
							508	71.0	77.0		-	-	-	10	40	-	2000	360	
							509	77.0	83.0		3	-	-	15	40	-	2000	315	
							510	83.0	89.0		5	-	5	35	50	-	2050	340	
							511	89.0	95.0		-	-	-	10	40	-	2050	410	
							512	95.0	101.0		-	-	-	10	40	-	2000	345	
							513	101.0	107.0		4	-	-	-	40	-	1850	385	
							514	107.0	113.0		3	-	35	30	80	-	2000	400	
			BQ from 111.0m				515	113.0	119.0		3	-	-	10	50	-	2050	420	
							516	119.0	125.0		-	-	-	-	45	-	2100	330	
							517	125.0	131.0		9	-	-	30	65	-	2150	295	
							518	131.0	137.0		10	-	5	55	85	-	2000	380	
							519	137.0	143.0		-	-	-	-	50	-	2150	365	
							520	143.0	149.0		-	-	-	5	55	-	2150	455	
							521	149.0	155.0		-	-	5	5	60	-	2050	400	
						159.9	2cm wide Qtz vein. Magnetite	522	155.0	161.0		5	-	10	5	60	-	1950	390
								523	161.0	167.0		-	-	5	10	60	-	2300	420
								524	167.0	173.0		-	-	5	5	55	-	2000	340
						175.8 - 176.1	Qtz-siderite. Magnetite	525	173.0	179.0		-	-	5	5	60	-	2150	390
								526	179.0	185.0		4	-	-	-	55	-	2100	350
								527	185.0	191.0		-	-	5	10	60	-	2150	495
								528	191.0	197.0		4	-	5	5	55	-	1850	495
								529	197.0	203.0		6	-	-	5	50	-	2100	300
								530	203.0	209.0		-	-	-	10	55	-	2000	335
								531	209.0	215.0		-	-	-	15	50	-	1850	310
								532	215.0	221.0		3	-	5	10	55	-	2100	530
								533	221.0	227.0		7	-	5	40	75	0.5	2100	280
						230.3 - 230.4	Silicified. Magnetite	534	227.0	233.0		-	-	10	15	65	-	2150	325
								535	233.0	239.0		7	-	10	20	60	-	2200	330

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

808012

TENEMENT NAME RAZORBACK No.

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. RR 81 R.C.F.

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, Vainng, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)							
From (M)	To (M)										Sn	W	Cu	Pb	Zn	Ni	Cr	Ag
							974536	239.0	245.0		6	7	10	10	60	2150	395	-
							537	245.0	251.0		-	10	10	5	65	2050	375	-
							538	251.0	257.0		-	-	10	5	55	2200	310	-
							539	257.0	263.0		-	-	10	-	60	2050	395	-
							540	263.0	269.0		-	10	10	5	60	2200	510	-
							541	269.0	275.0		-	-	10	-	60	2150	395	-
							542	275.0	281.0		5	-	10	10	65	2050	410	-
							543	281.0	285.8		-	-	15	20	80	1200	310	0.5
							544	285.8	287.0		4	-	5	30	45	2000	320	-
						285.0 - 287.0 Silicified. Magnetite	cut 545	287.0	288.8		6	-	-	-	60	1650	365	-
							cut 546	288.8	290.0		150	-	10	20	285	910	550	-
288.8	293.0				TALL CARBONATE	Silicified	cut 547	290.0	291.0		30	-	10	25	110	700	590	-
							cut 548	291.0	292.0		-	-	5	55	60	640	590	0.5
							cut 549	292.0	293.0		-	-	5	30	65	820	500	0.5
							cut 550	293.0	294.0		-	-	5	15	50	1750	340	-
293.0	302.5				SERPENTINITE	Soft, broken core down to 302m	551	294.0	295.0		-	-	10	30	55	2050	565	-
							552	295.0	296.0		3	-	5	125	55	1950	480	0.5
							553	296.0	297.0		8	-	5	25	60	2050	475	-
						* Sludge sample	554	297.0	297.0	*	-	-	-	95	65	2650	905	-
							555	297.0	299.0	1.3	-	-	-	90	55	1800	370	-
							556	299.0	300.0		3	-	-	20	50	1750	630	-
							557	300.0	301.0		-	-	5	70	60	1650	580	-
							558	301.0	302.0		-	-	5	110	55	1900	460	-
							559	302.0	303.0		-	-	5	25	45	1950	210	-
							560	303.0	304.0		-	-	-	10	40	1650	335	-
							601	304.0	305.0		3	-	15	20	45	1600	125	-
							602	305.0	306.0		7	-	20	5	45	1950	200	-
							603	306.0	307.0		10	-	20	10	40	2150	130	-
							604	307.0	308.0		7	-	15	10	45	1050	155	-
							605	308.0	309.5		4	-	10	10	60	1600	280	-

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

SHEET No. 3

808013

TENEMENT NAME RAZORBACK No.

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. RD 81 AC 5

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	Li	Cu	Pb	Zn	Ag	Ni	Cr
09.5					TALL CARBONATE		cut 974606	309.5	310.5		-	-	10	5	35	-	485	300
							cut 607	310.5	311.5		-	-	10	10	30	-	615	335
							cut 608	311.5	312.5		510	-	20	10	105	-	995	500
							cut 609	312.5	313.5		9	-	10	10	40	-	465	400
							cut 610	313.5	314.5		-	-	10	10	40	-	385	345
							cut 611	314.5	315.5		-	10	10	5	35	-	500	330
							cut 612	315.5	316.5		6	-	10	5	35	-	410	245
							cut 613	316.5	317.0		8	-	10	10	45	-	610	315
					SURVEYS:		50m		Dip. -55°									
							100m		-55°									
							150m		-53.5°									
							200m		-53°									
							250m		-53°									
							300m		-52°									

DEFLECTED INTERSECTION
300 - 323 METRES

808014

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

SHEET No. 403

TENEMENT NAME LAZARBACK No.

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. DD81 RC5

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	Ni	Cr
300.0	307.0				SERPENTINITE		974614	300.0	303.5		10	-	20	50	105	0.5	2000	200
							615	303.5	307.0		4	-	15	15	75	0.5	2400	355
307.0	317.7				TALL-CARBONATE		607 616	307.0	308.0		8	-	5	10	75	-	1350	570
							617	308.0	309.0		10	-	-	20	40	-	815	775
							618	309.0	310.0		240	-	5	-	55	-	1250	580
							619	310.0	311.0		8	-	-	-	60	-	650	740
							620	311.0	312.0		-	-	-	-	45	0.5	570	690
							621	312.0	313.0		3	-	10	-	55	-	730	780
							622	313.0	314.0		-	-	5	5	50	-	520	840
							623	314.0	315.0		5	-	-	-	60	-	640	940
							624	315.0	316.0		6	-	-	15	50	-	620	665
							625	316.0	317.0		-	-	-	-	55	-	600	1150
							626	317.0	317.7		30	-	5	10	65	-	910	545
317.7	323.0				SERPENTINITE		627	317.7	320.0		-	-	-	15	55	-	2250	385
							628	320.0	323.0		-	-	-	5	60	-	2500	265

WEDGED INTERSECTION

185.0 - 404.0 METRES

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

SHEET No. 014

TENEMENT NAME RAZAPACK No.

808015

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. DPB/RC5

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	V	Ca	Pb	Zn	As	Ni	Cr
185.0	286.2				SERPENTINITE		974629	185.0	191.0		-	-	10	25	70	-	2100	390
							630	191.0	197.0		6	-	15	10	70	-	2650	660
							631	197.0	203.0		4	-	5	20	65	-	2350	370
							632	203.0	209.0		-	-	15	20	70	1.0	2300	370
							633	209.0	215.0		6	-	15	10	70	-	2450	390
							634	215.0	221.0		4	15	5	30	65	0.5	2450	340
							635	221.0	227.0		-	-	5	20	65	-	2400	300
							636	227.0	233.0		-	-	10	20	70	0.5	2750	420
							637	233.0	239.0		-	-	-	10	60	-	2250	280
							638	239.0	245.0		-	-	10	10	65	1.0	2500	440
							639	245.0	251.0		4	-	10	30	65	-	2400	275
							640	251.0	257.0		-	-	15	5	80	-	2450	355
							641	257.0	263.0		-	-	5	20	70	0.5	2400	315
							642	263.0	269.0		-	-	-	20	60	-	2600	420
							643	269.0	275.0		-	-	5	20	65	1.0	2500	495
							644	275.0	281.0		5	-	10	25	85	0.5	2250	290
							645	281.0	286.2		-	-	25	20	90	0.5	2200	405
286.2	295.2				TALK-CARBONATE		CUT 646	286.2	287.0		80	-	10	30	60	1.5	1200	535
							- 647	287.0	288.0		15	-	5	25	60	-	970	525
							- 648	288.0	289.0		3	-	-	20	80	-	1800	350
							- 649	289.0	290.0		-	-	-	15	85	-	1750	470
							- 650	290.0	291.0		6	-	-	25	80	0.5	1800	355
							- 651	291.0	292.0		-	-	-	40	75	1.0	900	620
							- 652	292.0	293.0		-	-	-	15	50	0.5	850	630
							- 653	293.0	294.0		5	-	-	-	45	0.5	770	695
							- 654	294.0	295.2		3	-	105	55	55	0.5	755	760
295.2	303.2				SERPENTINITE		655	295.2	299.0		-	-	20	50	70	-	2150	455
							656	299.0	303.2		-	-	20	20	85	0.5	2200	435
303.2	320.0				TALK-CARBONATE		CUT 657	303.2	304.0		15	-	10	25	60	-	950	1450
							658	304.0	305.0		160	-	5	-	65	0.5	890	885
							659	305.0	306.0		7	-	-	5	70	-	660	890

C.R.A. EXPLORATION PTY. LIMITED

SHEET No.

808016

DRILL CORE LOG

TENEMENT NAME RAZORBACK No.

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No DR.81.RC.5

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	Ni	Cu
							cut 974660	306.0	307.0		-	-	5	5	65	-	575	920
							661	307.0	308.0		-	-	5	-	45	-	520	785
							662	308.0	309.0		35	-	5	5	55	-	580	950
							663	309.0	310.0		140	-	5	-	60	-	815	1450
							664	310.0	311.0		-	-	10	-	55	-	840	1100
							665	311.0	312.0		-	-	-	-	50	-	650	885
							666	312.0	313.0		-	-	5	-	50	-	575	955
							667	313.0	314.0		3	-	-	5	50	-	660	790
							668	314.0	315.0		-	-	-	10	55	-	620	945
							669	315.0	316.0		-	-	5	15	60	-	580	1200
							670	316.0	317.0		-	-	5	5	55	-	570	720
							671	317.0	318.0		-	-	5	-	40	-	695	905
							672	318.0	319.0		-	-	5	-	30	-	700	735
							673	319.0	320.0		8	-	-	20	30	-	735	690
20.0	350.9				SERPENTINITE		674	320.0	326.0		-	-	25	215	765	-	2150	505
							675	326.0	332.0		-	6	-	30	75	-	2350	450
							676	332.0	338.0		-	4	10	20	85	-	1800	360
							677	338.0	344.0		-	-	15	10	80	-	2100	590
							678	344.0	350.9		-	7	10	15	45	-	2050	465
					NQ TO 353.5		679	350.9	353.5		5	-	15	15	60	-	1150	1000
					BQ FROM 347.2 (DRILLED OUT SIDE OF HOLE)		680	347.2	350.9		-	-	10	10	50	-	2250	520
50.9	325.8				TALC CARBONATE	Slitified to 357m	cut 681	350.9	352.0		4	-	15	40	200	0.5	1050	705
						Occasional siderite veins	682	352.0	353.0		-	-	5	15	50	-	950	575
						Disseminated magnetite,	683	353.0	354.0		-	6	5	115	35	-	945	570
						pyrrhotite	684	354.0	355.0		-	4	-	15	55	-	710	810
							685	355.0	356.0		-	-	5	15	45	-	710	755
							686	356.0	357.0		-	-	-	5	35	-	725	785
							687	357.0	358.0		-	-	5	15	35	-	790	700
							688	358.0	359.0		-	-	-	10	45	-	685	855
							689	359.0	360.0		-	4	-	5	35	-	645	830
							690	360.0	361.0		4	-	-	15	25	-	540	470

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

808017

TENEMENT NAME R.A.R.P.A.K. No DP/81/R/5

PLAN - MAP REFERENCE.....

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

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, Vaining, Mineralization	Sample No.	From (M)	To (M)	Rec (M)	ASSAY VALUES (Analysed by.....)							
From (M)	To (M)										Sn	V	Ca	Pb	Zn	As	Ni	Cr
							CUT 974691	361.0	362.0		-	-	-	5	25	0.5	535	325
							" 692	362.0	363.0		-	-	-	15	35	-	465	825
							" 693	363.0	364.0		-	-	-	5	25	-	455	625
							" 694	364.0	365.0		-	-	-	20	45	-	425	1750
							" 695	365.0	366.0		-	-	-	15	40	0.5	505	1030
							" 696	366.0	367.0		-	-	5	25	35	-	500	1200
							" 697	367.0	368.0		-	-	5	10	115	0.5	675	920
							" 698	368.0	369.0		-	-	5	15	35	-	570	805
							" 699	369.0	370.0		-	-	5	-	35	-	820	810
							" 700	370.0	371.0		-	-	10	315	55	-	685	1150
							" 701	371.0	372.0		5	-	5	10	35	0.5	675	785
							" 702	372.0	373.0		36	-	5	15	25	-	830	725
							" 703	373.0	374.0		11	-	5	5	30	-	815	845
							" 704	374.0	375.0		17	-	5	5	25	0.5	850	920
							" 705	375.0	376.0		171	-	55	10	35	-	650	890
							" 706	376.0	377.0		119	-	80	35	105	-	780	1150
							" 707	377.0	378.0		15	-	5	5	25	-	760	780
							" 708	378.0	379.0		-	-	-	35	25	0.5	540	940
							" 709	379.0	380.0		15	-	-	15	25	-	755	910
							" 710	380.0	381.0		-	-	-	10	25	-	650	895
							" 711	381.0	382.0		11	-	10	25	40	-	725	1180
							" 712	382.0	383.0		75	-	20	20	35	-	745	1025
							" 713	383.0	384.0		-	7	5	10	30	-	580	1150
							" 714	384.0	385.0		-	-	-	25	50	-	715	680
							" 715	385.0	386.0		-	-	5	30	45	-	775	855
							" 716	386.0	387.0		-	-	-	20	40	-	645	970
							" 717	387.0	388.0		-	-	-	30	45	-	865	945
							" 718	388.0	389.0		-	-	-	15	50	-	680	1000
							" 719	389.0	390.0		-	5	5	30	45	-	635	1050
							" 720	390.0	391.0		27	-	5	20	35	-	760	845
							" 721	391.0	392.0		-	6	5	25	45	-	970	665

374.5 m - narrow pyroclastic section

808018

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

SHEET No. 8

TENEMENT NAME RAZORBACK No. DD21.RCS

PLAN - MAP REFERENCE

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

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

017

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	H ₂	Ct
					392-395.8 Pyrochlore-rich section (5-10% oriented in foliation)		722	392.0	393.0		4	-	5	30	40	-	1200	660
							723	393.0	394.0		126	6	160	120	210	1.5	1450	1000
							724	394.0	395.0		254	-	510	80	135	-	1250	575
					392.8 Massive pyrochlore in narrow siderite vein		725	395.0	395.8		377	-	555	75	65	-	1450	650
					393.9-394.1 30-40% pyrochlore with minor pyrite													
25.8	404.0				CONGLOMERATE		726	395.8	400.0		13	53	430	65	405	0.5	285	160
							727	400.0	404.0		-	65	205	40	245	-	405	630
					SURVEYS:	Depth	Azimuth	Dip										
						200	196	52.5										
						250	175	51.5										
						300	145	50.5										
						350	330	50.0										
						404	053	49.0										