

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

TENEMENT NAME MT ROLAND No.

PLAN - MAP REFERENCE.....

CO-ORDINATES..... AZIMUTH..... DRILLERS..... COMMENCED..... DEPTH..... HOLE No. DD 80 MR 1

RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 2457

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 Z.C. AMDEL...)									
From (M)	To (M)										Pb	Zn	Cu	Ag	Au	Sn	W			
					leached and bleached. Some pink clay due to Fe content. Abundant euhedral to anhedral feldspar phenocrysts now sericitized mostly < 2mm. Also qtz, in vitric groundmass. Rare indistinct volcanic clasts up to 35mm. Massive, with mineral lamination but non-schistose. Mineral lamination: 31.7m 45°/LCA; 45m 30°/LCA; 67m 40°/LCA. Gradual change at depth to:	disseminated cp. Best sulphides in leached zones centred on fractures, or in matrix (± slight silicification) & indistinct banded breccia zones. Best sulphides: 35.5-37m: 15% py. 37-43.4m: 5% py. 49-50.5m: 5% py - locally 10-15% 50.5-53m: 10-15% py. 63.05-64.1m: 10-15% py. trace cp.														
67.00	106.00		8Q		<u>RHYOLITIC PYROCLASTIC (AUTOBRECCIATED IGIMBRITE?)</u> Essentially the same rock as above. Creamy green to dark green mod altered (qtz-sericite + carbonate + minor chlorite). Feldspars + qtz up to 3mm in vitric groundmass. Feldspars as euhedral crystals and irregular crystal fragments. Weak to mod schistosity. Strong mineral lamination: 40°/LCA @ 67.5m; 45°/LCA @ 77.3m; 50°/LCA @ 86.5m; 45°/LCA @ 94.1m; 40°/LCA @ 101.5m. Some lazy angular clasts of similar rock up to 15mm.	Less shearing than above 67m, shearing int again below 88m, core badly broken 90-100.1m. Strong shears: 70m - 75°/LCA barren; 90.45m - 65°/LCA barren; 92.9m - 65°/LCA minor py; 97.45m - 55°/LCA minor py; 105.5m - 50°/LCA. Finely disse. py ubiquitous often in bands and vein-like threads oriented // to mineral lamination in matrix of breccia zones. Usually ± associated weak silicification. Best zones: 67.9-71m: 2-3% py 71-72.3m: 5% py 81.3-82.5m: 2-3% py 87.9-89.4m: 5-7% py	816642	96.00	98.00	1.7	24	43	44	1	<.04	6	<10			
							43	98.00	100.50	2.0	16	70	87	<1						

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RL COLLAR..... INCLINATION..... DRILL TYPE..... COMPLETED..... CASING LEFT..... DPO No(s) 26457

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 <u>ANDEL, ZC...</u>)									
											Pb	Zn	Cu	Ag	Au	Sn	W			
					Occasional qtz-carb veins, 2/m down to 98.5m then less barren. Vague lower contact.	96-97.4m: 5% py 97.4-100.5m: 2-3% py trace cp. Minor haematite-magnetite throughout.	816644	105	107	2.0	18	74	46	1	<.04	<.4	15			
							45	107	109	2.0	28	111	106	1						
							46	109	111	2.0	19	51	62	<1	<.04	<.4	<10			
26.00	140.50		BQ		<u>VOLCANIC BRECCIA</u> Similar to above	Much less shearing than before - core not badly broken.	47	111	113	2.0	18	74	245	1						
					Dark green with extensive patchy bleaching some.		48	113	115	2.0	19	155	99	<1	<.04	6	<10			
					Unwelded rock with soft rock brecciation strongly pyritic throughout - mostly angular clasts up to 50mm (average 10mm) in vitric groundmass. Some pink euhedral feldspars and qtz. Numerous qtz-carb veins.	Test sulphides associated with bleaching.	49	115	117	2.0	73	80	125	1						
					Clasts // mineral lineation, comprise same volcanics as above - later, pyroclastics and tuffs. Some porphyry Moderate alteration - qtz-sericite, carbonate, minor chlorite.	Zones of pyrite > 3% as follows: 105.1 - 108.7m: 3-5% py. Trace cp. 108.7 - 113m: 5-7% py. Minor cp. 114 - 119.4m: 7-10% py. 121.5 - 124.8m: 5-10% py. 124.8 - 126.4m: 15-20% py. Where visible, clast lineation // min lineation.	816650	117	119	2.0	75	116	45	1	<.04	4	10			
					Mineral lineation: 35°/LCA @ 113.2m; 30°/LCA @ 115.7m; 40°/LCA @ 129m; 40°/LCA @ 139.5m.		816701	119	121	2.0	32	200	162	1						
					Sharp lower contact - a shear 70°/LCA.		02	121	123	2.0	70	136	145	1	<.04	<.4	<10			
							816704	123	124.8	1.8	34	200	140	1	<.04	8	10			
							05	124.8	127	2.2	53	200	205	1						
							06	127	129	2.0	35	155	53	<1	<.04	<.4	10			
							07	129	131	2.0	34	125	39	1						
							08	131	133	2.0	42	110	48	1	<.04	<.4	<10			
							09	133	136	3.0	59	127	45	1						
							816710	136	139	3.0	59	95	36	1	<.04	<.4	<10			
							11	139	141	2.0	54	115	55	1						
							816712	149.50	151.50	2.0	77	196	475	1	<.04	<.4	<10			
							13	151.50	153.50	2.0	75	141	50	1						
							816714	163.50	165.0	1.5	23	138	36	1	<.04	<.4	<10			
							15	165	167	2.0	130	180	42	1						
							16	167	169	2.0	59	200	25	1	<.04	6	<10			
20.50	165.50		BQ		<u>PORPHYRITIC QUARTZ-ANDESITE LAVA</u> Similar to lava at top of hole. Dark green or grey, dense, fi gr, weak-mud altered volcanic. Abundant euhedral feldspars <1mm rarely up to 5mm. Minor qtz.	Less sulphides than before. Generally <1% py + 2% magnetite except: 140.5-142m: 5% py 149.5-152.5m: 10% py 153.5-156.5m: 2-3% py 156.5-158.1m: 10-15% py (breccia zone)	17	169	171	2.0	38	132	163	2						
							18	171	173	2.0	40	145	47	3	<.04	<.4	<10			
							19	173	175	2.0	58	151	51	2						
							816720	175	177	2.0	200	171	74	2	<.04	<.4	<10			
							21	177	179	2.0	66	147	136	2						
							22	179	181	2.0	160	145	61	1	<.04	<.4	<10			

