

# Diamond Drill Record

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COLLAR:		HOLE SURVEY		
NORTH	224N	FOOTAGE	AZIMUTH	DIP
EAST	184W	900	Vertical	
ELEVATION				
LOGGED BY	R. A. Dickinson			
DATE LOGGED	12/8/72			
MAP REFERENCE NO.	115-I-3	METHOD:		

COMPANY NAME Area Exploration Company  
 PROPERTY NAME Mount Nansen  
 DRILLING CONTRACTOR E. Caron Diamond Drilling  
 ASSAYER Bondar-Clegg & Company Ltd.  
 PURPOSE OF HOLE Test intensely altered silicified dome  
near geochem ring

HOLE NO.	CD-9
CLAIM NAME	Stone 2
COMMENCED	July 17, 1972
FINISHED	July 27, 1972
PROJECT NO.	461

FROM	TO	RECOVY %	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.	Cu	Mo	Au			
0	10	-	Overburden. NW casing 0-18'. BW casing 0-415'.			BQ							
10	45	60	Extremely broken core, pebble size fragments. Leached, sericite and	10	20	10	4389	0.02	L.003	L0.005			
			clay (kaolin) altered rhyodacite porphyry (quartz-feldspar porphyry).	20	30	10	4390	0.01	L.003				
			Pervasive goethite staining and along fractures. Vugs left by	30	40	10	4391	0.01	L.003				
			sulphides make up $\approx 2\%$ of rock and are commonly filled with limonite	40	50	10	4392	0.01	L.003	L0.005			
			(jarosite).	50	60	10	4393	0.01	L.003				
45	62.5	95	Quartz rich rhyodacite porphyry. Pervasively limonite stained. Some	60	70	10	4394	0.01	L.003				
			traces of pyrite remain unleached, probably trapped in quartz. Quartz-	70	80	10	4395	0.02	L.003	L0.005			
			sericite-pyrite alteration assemblage.	80	90	10	4396	0.05	L.003				
62.5	95	80	Pervasively goethite-jarosite stained crumbly core. Highly altered	90	100	10	4397	0.03	L.003				
			leached rhyodacite porphyry. No sulphides.	100	110	10	4398	0.04	.006	L0.005			
95	135	90	Leached and limonite stained porphyry. Sericite makes up $\approx 15\%$ of	110	120	10	4399	0.02	.004				
			rock. Minor quartz fracture fillings but all sulphides leached.	120	130	10	4400	0.01	.004				
135	138	75	Highly broken, clayey shear zone. Rhyodacite porphyry.	130	140	10	526	0.01	.003	L0.005			
138	202	80	Leached, intensely sericite-clay altered rhyodacite porphyry.	140	150	10	527	0.01	.003				
			Limonite stained, and coatings of goethite-anhydrite along several	150	160	10	528	0.01	.005				
			fractures. Fair recovery, 1' sections.	160	170	10	529	0.07	L.003	0.005			
202	218	70	Highly broken and sheared rhyodacite porphyry. Pervasively limonite	170	180	10	530	0.01	.008				
			stained. Clay, sericite and pyrite.	180	190	10	531	0.05	L.003				
218	248	85	Pervasively stained, leached, highly altered rhyodacite porphyry.	190	200	10	532	0.04	L.003	L0.005			
			Some thick coatings of goethite along fractures. Limonite stained	200	210	10	533	0.05	L.003				

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HOLE NO. _____	CD-9
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				SLUDGE		
				FROM	TO	WIDTH	NO.	Cu	Mo	Au		No.	Cu	Mo
			capping ends at 248'.	210	220	10	534	0.07	L.003					
248	285	80	Strongly sericitized and leached greyish-white rhyodacite porphyry.	220	230	10	535	0.05	.027	L.005				
			Sericite replaces all feldspar phenocrysts and matrix. A few 2-4 mm	230	240	10	536	0.05	.022					
			resorbed quartz "eyes." Phenocrysts make up $\approx$ 50% of rock.	240	250	10	537	0.09	.004	L.005		843	0.03	.00
			Several fractures have dark black (often sheared) earthy coatings.	250	260	10	538	0.20	L.003	L.005		844	0.12	.00
			Maybe chalcocite but probably manganese oxide. Most pyrite	260	270	10	539	0.13	L.003	L.005				
			leached but traces of finely disseminated pyrite remain, often	270	280	10	540	0.12	L.003	L.005		845	0.08	L.00
			coated with chalcocite. Traces of chalcocite rimming pyrite along	280	290	10	541	0.10	L.003	L.005		846	0.07	.00
			fractures at 256 and 259.	290	300	10	542	0.09	L.003	L.005		847	0.07	.00
285	332.8	95	Good recovery 6"-2' sections of core, breaking along fractures	300	310	10	543	0.08	L.003	L.005		848	0.08	.00
			occurring at all angles to core axis. Sericitized-clay altered	310	320	10	544	0.02	L.003	L.005		849	0.05	.00
			rhyodacite porphyry. 1-2% pyrite, often thinly coated with chalcocite.	320	330	10	545	0.12	L.003	L.005		850	0.09	.00
			Phenocrysts of feldspar are replaced pseudomorphically by clay-											
			sericite mixture. Phenocrysts often stained orange-brown with											
			limonite. Specks of malachite occur irregularly throughout section.											
			Chalcocite is found replacing 1/16-1/32" pyrite fracture fillings at											
			290, 291, 292.5, 293, 294, 294.3, 294.5, 295, 298, 303.6, 304,											
			307, 308, 314, 314.6, 314.8, 315.8, 316.2, 318-322, 324, 326,											
			328, and 331.8.											
332.8	333.8	98	Excellent recovery. Greenish black lamprophyre dyke (andesitic	330	340	10	546	0.03	.003			851	0.04	.00
			composition). A few phenocrysts of unaltered plagioclase in	340	350	10	547	0.03	.019			852	0.04	.00

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HOLE NO.	CD-9
CLAIM NAME	_____
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FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				SLUDGE		
				FROM	TO	WIDTH	NO.	Cu	Mo	Au		No.	Cu	Mo
			microcrystalline matrix. No pyrite.	350	360	10	548	0.04	.0311	0.005		853	0.05	.010
333.8	373	95	Good recovery, soft altered core. White rhyodacite porphyry.	360	370	10	549	0.01	.0261	0.005		854	0.04	.016
			Altered feldspar phenocrysts make up 40% of rock, while anhedral quartz "eyes" make up 5%. Some 1/2" altered (k-spar?) feldspar phenocrysts. Quartz-sericite-pyrite alteration assemblage. Finely disseminated pyrite (2%) evenly distributed throughout rock. Minor, coatings of chalcocite rimming pyrite. Minor specks of malachite.											
373	389	80	Section of brecciated highly altered porphyry. Fractures have been filled with large euhedral pyrite crystals. Pyrite is coated with chalcocite and bornite looking covellite. Pyrite cubes up to 1/4". Pyrite 10-15% (visual).	370	380	10	550	0.17	.0311	0.005		855	0.13	.013
				380	390	10	556	0.25	.0241	0.005		856	0.23	.010
389	395	80	Quartz-sericite-pyrite altered rhyodacite porphyry. Chalcocite rims pyrite fracture fillings 390-392.	390	400	10	557	0.15	.0231	0.005		857	0.13	.006
395	400	0	No core. Sand zone.											
400	415	60	Highly broken, greyish clay rich, sheared section of porphyry. Minor pyrite and traces of chalcocite at 401, 403, 405, 418.	400	410	10	558	0.08	.0051	0.005		858	0.08	.005
				410	420	10	559	0.09	.003			859	0.07	.006
415	439	90	Sericite-quartz-pyrite altered porphyry. White and soft. Finely disseminated pyrite (<1%) with minor chalcocite rims.	420	430	10	560	0.05	.007			860	0.05	.004
				430	440	10	561	0.04	L.003	0.005		861	0.02	L.003
439	457	50	Highly broken section. Sheared blackish-grey clay and porphyry. Sericite-clay-pyrite. Chalcocite along fractures 455-457.	440	450	10	562	0.02	L.003					

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FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				SLUDGE		
				FROM	TO	WIDTH	NO.	Cu	Mo	Au		No.	Cu	Mo
457	489	60	1-2' runs, highly broken clay rich shear zone. Clay is grey black	450	460	10	563	0.04	.004					
			(MoS <sub>2</sub> ?). From 482-483 brecciated section filled with massive	460	470	10	564	0.02	.004	L0.005		862	0.03	.004
			pyrite.	470	480	10	565	0.01	.012			863	0.01	.007
489	508	85	Sericite altered rhyodacite porphyry. Finely disseminated pyrite	480	490	10	566	0.01	.011			864	0.01	.010
			1-3%. Sericite replaces phenocrysts and some of matrix. No mafics.	490	500	10	567	0.01	.006	L0.005		865	0.01	.003
508	509	80	Shear zone. Blackish-grey clay and porphyry fragments. Minor	500	510	10	568	0.01	.012			866	0.01	.003
			pyrite and chalcocite.	510	520	10	569	0.01	.010					
509	548	75	Intensely altered porphyry. Silicates completely replaced by sericite.	520	530	10	570	0.02	.018	L0.005				
			Finely disseminated pyrite 2%. A few specks of chalcocite.	530	540	10	571	0.01	.026					
548	555	75	Highly broken section, pebble size, clay sericite altered fragments.	540	550	10	572	0.01	.027					
			Minor pyrite.	550	560	10	573	0.02	.036	L0.005				
555	569	90	Quartz-sericite-pyrite altered porphyry. 2-3% disseminated pyrite	560	570	10	574	0.02	.014					
			and trace of chalcopyrite.	570	580	10	575	0.03	.009					
569	585	90	Altered porphyry as above. Traces of chalcopyrite, and chalcocite	580	590	10	826	0.01	.005	L0.005				
			skins on pyrite. 2% pyrite.											
585	588	98	Lamprophyre dike. Dark green-black slightly porphyritic (plagio-											
			clase), dense, fine grain matrix. Traces of biotite and pyrite.	590	600	10	827	0.02	.010					
			Unaltered.	600	610	10	828	0.02	.010					
588	615	90	4"-6" sections of altered porphyry. Intensity of alteration decreasing.	610	620	10	829	0.03	.006	L0.005				
			Mainly clay replacing feldspars. 1-2% finely disseminated anhedral	620	630	10	830	0.04	.004					
			pyrite, trace of chalcopyrite.	630	640	10	831	0.03	.008					

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EAST				
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COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. CD-9  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.	Cu	Mo	Au			
615	640	75	Highly sheared, broken zone. Some blackish-grey clay. Minor pyrite $\approx$ 1% and chalcocite occurs at 637.	640	650	10	832	0.01	.008	L0.005			
				650	660	10	833	0.04	.007				
640	655	85	Broken core, rhyodacite porphyry. Clay sericite-pyrite altered. Finely disseminated pyrite.	660	670	10	834	0.01	.013				
				670	680	10	835	0.03	.007	L0.005			
655	659	95	Sericite-clay altered porphyry. Finely disseminated pyrite. 1' lengths. At 655.4, 1/32" wide chalcopyrite veinlet cutting core $\approx$ 70°.	680	690	10	836	0.01	.010				
				690	700	10	837	0.01	.011				
				700	710	10	838	0.01	.011	L0.005			
659	684	75	Intensely, fractured, broken, clayey shear zone. Grey-black clay gouge. Minor pyrite.	710	720	10	839	0.02	.007				
				720	730	10	840	0.01	.013				
684	690	90	Sericite-clay-pyrite altered porphyry.	730	740	10	841	0.02	.008	L0.005			
690	696	80	Highly broken clay-rich shear zone.	740	750	10	842	0.01	L.003				
696	716	90	Sericite-clay-pyrite (1-2%) altered porphyry. Trace of chalcopyrite as disseminations.	750	760	10	867	0.01	.003				
				760	770	10	868	0.01	L.003	L0.005			
716	724	80	Highly broken, fragmented section. 1"-2" sections of core. Minor pyrite. Clay and sericite.	770	780	10	869	0.01	.003				
				780	790	10	870	0.01	.010				
724	753	90	Broken 3-4" sections of core. Sericite and clay altered porphyry.	790	800	10	871	0.01	.008	L0.005			
753	883	95	Good recovery 1-3" lengths of core. Rhyodacite porphyry. Alteration becomes much less intense. Booklets of brownish clay replacing biotite now visible. Feldspars are only fringed with clay. Feldspars have a greenish tinge (montmorillonite?, saussurite?).	800	810	10	872	0.02	.022				
				810	820	10	873	0.01	.005				
				820	830	10	874	0.01	L.003	L0.005			
				830	840	10	875	0.01	L.003				
			Rock is composed of <5% altered mafics, 1-2% pyrite, trace	840	850	10	876	0.01	.007				

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COMPANY NAME \_\_\_\_\_  
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PURPOSE OF HOLE \_\_\_\_\_

[illegible]