

COLLAR

NORTH Approx. 33 feet North of
 EAST #1 post, A.G. 1.
 ELEVATION _____
 AZIMUTH _____
 DIPS Vertical

NORTHWESTERN EXPLORATIONS, LIMITED

DIAMOND DRILL RECORD

PROPERTY A. B. Group, Aspen Grove, B.C.

HOLE No. A.B. 1
 STARTED May 14, 1956
 FINISHED May 24, 1956
 PURPOSE Vert. extent of mineralization.

A-1M-MP-856

FROM	TO	DESCRIPTION	SAMPLES				ASSAYS		AVERAGES				
			SAMPLE No.	FROM	TO	WIDTH	% Cu.						
0	2.0	Overburden	7256	2.0	7.0	5.0	0.10						
2.0	23.2	Agglomerate, med. green grey, f.g. Occ.	7257	7.0	12.0	5.0	0.05	} aggl.					
		indefinite fragments to 1-1 1/2". Scattered	7258	12.0	17.0	5.0	0.10						
		small dk. green phenocrysts of hornblende?	7259	17.0	22.0	5.0	0.05						
		Consp. spotty olive green epidote, much	7260	22.0	27.0	5.0	0.12						
		of it in pseudo-vein-like form. Occasional	7261	27.0	32.0	5.0	0.05						
		small eyes of quartz with minor	7262	32.0	37.0	5.0	Tr.						
		interstitial secondary(?) quartz. Contains	7263	37.0	42.0	5.0	Tr.						
		moderate amount of finely disseminated	7264	42.0	47.0	5.0	0.07						
		hematite which is difficult to estimate	7265	47.0	52.0	5.0	0.07						
		and identify from chalcocite. Calcite-	7266	52.0	57.0	5.0	0.07						
		filled fractures at 35-45° occurs every	7267	57.0	62.0	5.0	0.03						
		5 or 6". Pseudo veinlets and pods of	7268	62.0	67.0	5.0	0.07						
		quartz and pink feldspar 7.0-12.0"	726 ⁹	67.0	72.0	5.0	0.10						
		1" grey mud seam @ 13.1. Few rust stains	7270	72.0	77.0	5.0	0.07						
		17.0-22.0.											
23.2	153.0	Andesite porphyry, med.-dk. grey green, f.g.	7271	77.0	82.0	5.0	0.04						
		with a dioritic texture, massive. Marked	7272	82.0	87.0	5.0	0.05						
		purplish cast. Little epidote except along	7273	87.0	92.0	5.0	0.10						

FROM	TO	DESCRIPTION	SAMPLES				ASSAYS				AVERAGES			
			SAMPLE No.	FROM	TO	WIDTH		% Cu.						
		fractures. Consid. diss. fine hematite	7274	92.0	97.0	5.0		0.10						
		Many fractures at about 45° to core with	7275	97.0	102.0	5.0		0.05						
		minor calcite. Some fractures are rusty	7276	102.0-107.0		5.0		0.07						
		95.5-97.0 Slightly finer-grained with	7277	107.0-112.0		5.0		0.10						
		small white feldspar phenocrysts-poss.	7278	112.0-117.0		5.0		0.07						
		flow contact. At 131.0 fragmental	7279	117.0-122.0		5.0		0.05						
		appearance and f.g., prob. flow contact	7280	122.0-127.0		5.0		0.07						
		Intense fracturing 141.0-base .	7281	127.0	132.0	5.0		0.05						
		150.3-153.0 Dk. green amygdular porphyritic	7282	132.0-137.0		5.0		0.05						
		andesite with 1/16" calcite-filled	7283	137.0-142.0		5.0		0.05						
		amygdules.												
153.0	169.5	Andesite porphyry as above, no purplish	7284	142.0-147.0		5.0		0.07						
		cast. Slightly more epidote than in	7285	147.0-152.0		5.0		0.10						
		preceding section. Fragmental for 3" at	7286	152.0-157.0		5.0		0.07						
		top of section. Contains abundant finely	7287	157.0-162.0		5.0		0.07						
		disseminated hematite. Gradational at base.	7288	162.0-167.0		5.0		0.12						
169.5	203.5	Agglomerate, similar to section 2.0-23.2	7289	167.0-172.0		5.0		0.07						
		but with somewhat less epidote. Fractures	7290	172.0-177.0		5.0		0.10						
		less numerous than in preceding sections.	7291	177.0-182.0		5.0		0.10						
		Consid. diss. fine hematite. Fragments	7292	182.0-186.5		4.5		0.12						
		poorly defined.	7293	186.5-190.0		3.5		0.05						

B-1M-MP-552

FROM	TO	DESCRIPTION	SAMPLES				ASSAYS		AVERAGES			
			SAMPLE NO.	FROM	TO	WIDTH	% Cu.					
		186.5-188.0 Fault?. Rusty colored calcite	7294	190.0-195.0	5.0	0.03						
		with shards of country rock.	7295	195.0-200.0	5.0	0.10						
203.5	208.5	Andesite, dk.grey green, aphanitic,	7296	200.0-205.0	5.0	0.12						
		amygdular.Small calcite amygdules.	7297	205.0-210.0	5.0	0.12						
		Minor diss. hematite also hematite in	7298	210.0-215.0	5.0	0.10						
		hairline fractures. Sharp 45° contact at	7299	215.0-225.0	5.0	0.07						
		base marked by slickensides and calcite.	8800	220.0-225.0	5.0	0.03	ABBI					
208.5	261.3	Agglomerate, similar to section 169.5-	8801	225.0-230.0	5.0	0.07						
		203.5.Purplish cast. Moderate epidotiza.	8802	230.0-235.0	5.0	0.07						
		abundant diss. fine hematite. Only	8803	235.0-240.0	5.0	0.10						
		slightly epidotized with a reddish cast	8804	240.0-245.0	5.0	0.12						
		from 242.0-base. Many feldspar phenocrysts	8805	245.0-250.0	5.0	0.05						
		from 242.0-base are reddish coloured.	8806	250.0-255.0	5.0	0.03						
		Fragments are most distinct from 250.0-	8807	255.0-260.0	5.0	0.02						
		base.										
261.3	283.6	Tuff, greenish grey with a slight pink-	8808	260.0-265.0	5.0	0.02						
		cast, f.g. numerous white and green	8809	265.0-270.0	5.0	0.04						
		phenocrysts averaging less than 1/10"	8810	270.0-275.0	5.0	Tr.						
		with an occ. fgt.. Many 20° calcite	8811	275.0-280.0	5.0	0.05						
		filled fractures from 261.3-277.0, fewer	8812	280.0-285.0	5.0	0.03						
		fractures 277.0-282.0, intensely	8813	285.0-290.0	5.0	0.02						

	FROM	TO	DESCRIPTION	SAMPLES			ASSAYS			AVERAGES		
				SAMPLE No.	FROM	TO	WIDTH	%Cu.				
			fractured 282.0-base. Moderate amount diss. fine hematite.	8814	290.0-295.0	5.0	0.02					
283.6	303.5		Andesite porphyry, similar to section 23.2-153.0 but finer grained. Slight epidotization	8815	295.0-300.0	5.0	0.10					
			Calcitic 302.-base. Diss. fine hematite Sl. fractured	8816	300.0-305.0	5.0	0.03					
				8817	305.0-310.0	5.0	0.02					
				8818	310.0-315.0	5.0	0.02					
				8819	315.0-320.0	5.0	0.03					
303.5	305.0		Tuff, similar to section 261.3-283.6	8820	320.0-325.0	5.0	Tr.					
305.0	340.0		Agglomerate, purplish, f.g. mainly calcitic. Contains diss. fine hematite as above. Fragments to 1/2". Many fine calcite quartz and pink calcite 320-325. Contains numerous tiny white and green phenocrysts Gradational at base.	8821	325.0-330.0	5.0	0.04					
				8822	330.0-335.0	5.0	0.10					
				8823	335.0-340.0	5.0	0.05					
				8824	340.0-345.0	5.0	Tr.					
				8825	345.0-350.0	5.0	0.12					
340.0	404.0		Agglomerate, similar to section 169.5- 203.5. Purplish cast. Fragments well- defined from 360-base. Quite calcitic from 340-385. Fine tuff from 367-370, circulation lost with 50% lost core 367-371. Numerous fine calcite fractures. Moderate patchy epidote.	8826	350.0-355.0	5.0	Tr.					
				8827	355.0-360.0	5.0	0.07					
				8828	360.0-365.0	5.0	0.05					
				8829	365.0-370.0	5.0	0.07					
				8830	370.0-375.0	5.0	0.04					
				8831	375.0-380.0	5.0	0.03					
				8832	380.0-385.0	5.0	Tr.					

FROM	TO	DESCRIPTION	SAMPLES				ASSAYS			AVERAGES		
			SAMPLE No.	FROM	TO	WIDTH	% Cu.					
		Occ. pseudo-vein like pink feldspars										
		355-360 and 390-395. Looks like	8833	385.0-390.0	5.0	0.02						
		serpentinized rock 390-395. Diss. fine	8834	390.0-395.0	5.0	Tr.						
		as above.										
404.0-	414.5	Andesite porphyry, similar to section	8835	395.0-400.0	5.0	0.01						
		23.2-153.0 but slightly finer-grained.	8836	400.0-405.0	5.0	0.03						
		Only occ. flecks of epidote. Slightly	8837	405.0-410.0	5.0	0.04						
		fractured. Diss. hematite as above.										
414.5	432.0	Agglomerate, similar to section 2.0-	8838	410.0-415.0	5.0	0.05						
		23.2. Highly epidotized matrix, fragments	8839	415.0-420.0	5.0	0.03						
		less epidotized. Fragments less distinct	8840	420.0-425.0	5.0	Tr.						
		and slightly coarser grained from 420-base.	8841	425.0-430.0	5.0	0.02						
432.0	501.7	Andesite porphyry, similar to section	8842	430.0-435.0	5.0	0.03						
		23.2-153.0. Calcite fractures are more	8843	435.0-440.0	5.0	0.07						
		plentiful than in preceding section.	8844	440.0-445.0	5.0	0.10						
		Slightly coarser grained almost diorite	8845	445.0-450.0	5.0	0.07						
		texture from 440.0-450.0. Pass. flow	8846	450.0-455.0	5.0	0.03						
		breccia 461.7-462.7, at 472.5. Definitely	8847	455.0-460.0	5.0	0.05						
		finer grained with small white phenocrysts	8848	460.0-465.0	5.0	0.02						
		498.5-base with many calcite veins at 600.										
		Diss. hematite as above.	8849	465.0-470.0	5.0	0.10						

	FROM	TO	DESCRIPTION	SAMPLES				ASSAYS				AVERAGES				
				SAMPLE NO.	FROM	TO	WIDTH		% Cu.							
			Fragments to more than 3". Slightly calcitic	K8868	57.0	62.0	5.0		Tr.							
			from 60.0-67.0, highly calcitic from	K8869	62.0	67.0	5.0		0.22							
			67.0 base. Occ. sub-vert. rusty fractures	K8870	67.0	72.0	5.0		0.07							
			Sharp contact at 35-40° to core at base.	K8871	72.0	77.0	5.0		Tr.							
	72.5	77.0	Andesite porphyry, grey green to purplish, f.g. small white phenocrysts less than 1/16", only slightly epidotized with numerous fine calcite-healed fractures. 1/4" calcite at 35° at base marks contact.													
	77.0	95.5	Agglomerate as in section 7.0-28.0	K8872	77.0	82.0	5.0		Tr.							
			Small veins of porphyry 77-82. Calcitic from	K8873	82.0	87.0	5.0		Tr.							
			77.0-84.0 Gradual change with less	K8874	87.0	92.0	5.0		0.02							
			epidotization at base.	K8875	92.0	97.0	5.0		0.01							
	95.5	112.5	Andesite (?), dioritized, purplish, fine to med. grained, porphyritic and massive. Dk. green phenocrysts prob. chloritized. Only slightly epidotized. Strong fracturing with calcite and epidote at 45° to core from 94.0-95.5, fine 45° fractures with rust, calcite and epidote elsewhere.	K8876	97.0	102.0	5.0		0.01							
				K8877	102.0	107.0	5.0		Tr.							
				K8878	107.0	112.0	5.0		0.10							
	112.5	117.0	Andesite porphyry as section 72.5-77.0	K8879	112.0	117.0	5.0		0.12							

