

DRILL LOG

803744

PROJECT Sulphurets 2153	GROUND ELEV. 3460' 1054.6m
HOLE NO. 18	BEARING n.l
LOCATION Sulphurets Gold Zone	DIP -90°
	TOTAL LENGTH 548 Ft. 167.03m
LOGGED BY D. Bridge, D. Fedruk, W. Melnyk, T. Simpson	HORIZONTAL PROJECT 6.20m
DATE June 19 - June 23, 1981	VERTICAL PROJECT 166.60m
CONTRACTOR Arctic Diamond Drilling	ALTERATION SCALE 0 1 2 3 absent slight moderate intense
CORE SIZE BQ	
DATE STARTED June 15, drilling June 18 / 81	TOTAL SULPHIDE SCALE 0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED June 22, 1981, surveyed by 10:15 AM	
DIP TESTS 44' -89° 349.5° 322.0 obs 224' -88° 045.5 018.0 424' -83.2° 050.5 023.0 524' -82.8° 057.5 030.0	LEGEND
COMMENTS lost water at 130' 0.2m stickup on casing	

D. Bridge

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					no. of <1 cm A	py 1-10 cm B	v. >10 cm C	qz v D	cal v E		
5.0				0.0-2.13: overburden 2.13-7.68: weakly to moderately altered andesite: light green to light gray, F.g., local F.g. altered plg grains, local v.f.g. carb. amygdalae?, minor qz + cal. v.	38	1	0	3	2	L	
					7.0/m		0.5/m				
10.0				7.68-15.0: intensely altered andesite: F.g., light gray, int. silicified, locally int fractured and healed by hairline cal. veins, minor remnants of w-m altered rock, avg 2% small chlorite patches	62	8	0	1	4	L	
					9.6/m		0.1/m				
15.0	50	15cm q.v. py on rims		15.0-17.14: chloritic andesite: F.g., med. green, abundant chl. grains and small patches	38	1	0	0	14	L	
					18.2/m						
20.0	40			17.14-17.59: massive pyrite: m-c grained, 10-20 cm light gray halo around v. 17.59-20.15: int. alt. andesite: mainly F.g., light gray, granular, silicified, local med green chl. and. remnants	44	1	0	1	18	L	
					14.9/m		0.3/m				
	40			20.15-20.75: massive py v, coarse grained, minor cal-chl-qz patches			1			0	

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS										
		FROM	TO	WIDTH		^{oz} / _{ton}	ppm	ppm	ppm	ppm	ppm	ppm	ppm			
						Au	Ag	Cu	Mo	As	Sb	Pb				
2.13 - 7.68 : 3-5 % py, F-mg, mainly veins		3.00														
				3.00	3601	.036	4.0	1520	12							
				6.0												
				1.68	3602	.016	2.2	630	16							
		7.68														
7.68 - 15.0 : avg 25% py, mainly veins, some dissem. in and around chl. patches, 2 obs moly in qz v.		9.00		1.32	3603	.027	2.6	690	24							
				3.00	3604	.043	3.0	700	32							
		12.00														
				3.00	3605	.089	3.2	490	30							
15.0 - 17.14 : 5-10 % py, veins, very minor dissem.		15.00														
				2.14	3606	.016	1.8	480	10							
17.14 - 17.54 : massive py v, c-m grained		17.14														
		18.0		0.86	3607	.056	7.6	105	12							
17.54 - 20.15 : 5-10 % py, mainly veins				2.15	3608	.052	2.8	615	12							
		20.15														
20.15 - 20.75 : massive py		21.00		0.85	3609	.040										
						.052	6.0	250	68	380	118	1100				

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					no. of cal cm A	of 1-10 cm B	py v. >10 cm C	qz v D	cal v E		
25.0				20.75-35.65: chloritic and weakly silicified andesite: mainly med green, f.g., weakly to mod. chloritic, towards base mod. chloritic, minor weakly silicified sections, mod. int. of thin cal v, low int. of 2-8 mm qz v, most qz v. contain 10-50% py.							
30.0					33	5	0	22	49	L	
					22.5 m			1.5 m			
35.0				35.65-36.58: massive pyrite, 2% qz patches, <2% chl and cal, very coarse, locally fine grained py.			1			0	
		50 40 30 20 10	2cm py, q.v. 2cm py, q.v. 2cm py 11cm py 51cm py 2cm py	36.58-37.70: chl. alt and: mottled lt gry, dk gry, H gr, dk gr	31	2	0	9	1	L	
				37.70-38.45: alt. and. and mass. py. grey	0	1	2	2	0	0	
40.0				38.45-42.8: chloritic alt. andesite: grey to dk green, occasional chlorite (?) after feldspar (?) crystals	35	1	0	7	6	L	
		65 50 35	5cm py, q.v. 4cm py, q.v. 2cm py, q.v.	42.8-43.32: silic. alt. and.: qtz, py v. little cal, lt gry to lt gr., minor epidote in py patch	18	2	0	5	1	L	
45.0				43.32-47.30: chl alt and with silicified patches: lt gr to dk gr,	30	2	0	10	11	L	
					20.9 m			3.1 m			

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS						
		FROM	TO	WIDTH		wt/ton Au	ppm Ag	ppm Cu	ppm Mo	ppm As	ppm Sb	ppb Hg
20.75-35.65: avg 15% py, mainly F-m grained vein py. at 21.64: 5mm ep-py v w. vuggy qz and minor stibnite?				3.00	3610	.055	3.8	2240	6	32	40	1150
		24.00				.050				Pb-172	Zn-152	
minor native Cu on some open, weathered fractures				3.00	3611	.027						
		27.0				.024	2.6	572	3	167	51	650
				3.00	3612	.017						
						.018	2.4	623	16	30	22	430
		30.00								Pb-52	Zn-37	
				3.00	3613	.014						
						.013	2.3	708	6	20	32	400
		33.00								Pb-48	Zn-57	
				2.65	3614	.010						
						.011	2.4	450	6	27	31	520
35.65-36.58: massive py, coarse grained, one minor sph. patch		35.65								Pb-44	Zn-500	
		36.00	0.35	3615	.055	2.8	150	22	252	107	1100	
		36.58	0.58	3616	.032	6.4	552	24	Pb-220	Zn-102		
36.58-37.70: 20% py, mostly v, some dissem. c-f grain, subhed-an				1.12	3617	.025	2.6	212	3	23	50	300
		37.70								Pb-88	Zn-272	
at 37.94-38.45: mass. py, c.g., subhed 20cm halo		38.45	0.75	3618	.038 (.041)	6.0	430	12	166	122	1500	
		39.00	0.55	3619	.051 (.049)	5.2	430	4	Pb-200	Zn-800		
38.45-42.86: 5-10% py, F-m grain, qtz, cal in some veins.				3.00	3620	.016	3.6	760	8	10	49	400
		42.00				.026				Pb-54	Zn-330	
42.86-43.32: avg 40% py, F-m grain qtz in py veins		42.86	0.86	3621	.011							
				0.46	3622	.094	2.8	460	1	2	51	200
		43.32				.085	6.4	412	4	Pb-32	Zn-160	
43.32-47.30: 10% py, veins with cal and minor qtz				1.68	3623	.013				74	62	330
		45.00				.018	3.4	605	8	Pb-34	Zn-66	
										14	72	150
										Pb-24	Zn-144	

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS									
		FROM	TO	WIDTH		oz/tm Au	ppm Ag	ppm Cu	ppm Mo	ppm As	ppm Sb	ppm Pb			
				3.00	3624	.052									
47.30-50.00: 10% py, mainly veins, Fm grain		48.00				.050	4.0	320	10	1	58	500			
				3.00	3625	.098									
50.00-55.10: py veining		51.00				.081	4.4	664	6	26	32	320			
50.00-57.40: 5% py, F-C grain associated cal. qt															
57.40-69.10: 1-2% py, F grain assoc. cal. qt				3.00	3626	.019		5.2	576	6					
69.10-72.90: 5% py, M-2 grain assoc. qt		54.00													
72.90-78.00: 1% py, F grain assoc. cal. qt															
78.00-85.10: 10% py, M-2 grain assoc. cal. qt		57.00		3.00	3627	.018		4.3	445	16					
				3.00	3628	.010		2.4	582	24					
		60.00													
				3.00	3629	.009		2.4	513	20					
		63.00													
				3.00	3630	.015		2.2	710	12					
		66.00													

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH		oz/ton Au	ppm Ag	ppm Cu	ppm Mo
				3.00	3631	.008			
		69.00					2.0	510	4
				3.00	3632	.007			
		72.00					1.8	474	2
				3.00	3633	.009			
		75.00					1.8	514	6
				3.00	3634	.003			
		78.00					1.6	502	1
				3.00	3635	.019			
		81.00					2.2	190	10
				3.00	3636	.009	2.2	244	20
		84.00							
				1.10	3637	.012	3.0	370	14
		85.10							
85.10 - 90.95 : 5-10% py									
at 85.10-85.90: 7cm and 20cm		85.90		0.80	3638	.057			
mass. py v. and halo 5cm				1.10	3639	.026	12.6	98	22
							4.0	487	16
		87.00							
				2.15	3640	.032	5.8	240	10
at 89.15-90.00: 17cm mass py v.		89.15							
and silicified patches.									
		90.00		0.85	3641	.060	17.6	334	56

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
90.00			25 cm py v.	90.95 - 94.16 : chl alt. and: lt-med gr, abundant chl (?) after field (?), some sausser (?)	22	0	0	9	78	L	
			2 cm qt, cal v.	94.16 - 94.70 : cal, zircon: amount: 2 ⁺ py, chl, epid.	0	0	0			0	
95.00			1.5 cm cal, qt, epid v.	94.70 - 95.23 : chl alt and: med-dk gr, abund. chl (?) after field (?)	11	0	0	5	37	L	
			12 cm py, cal, chl v.	96.63 - 98.19 : chl alt and: lt-med gr, abund. chl (?) after field (?)	21	1	2	2	24	L	90.95 - 98.19
			15 cm py, cal, epid v.	98.19 - 103.34 : chl alt and: lt-med gr, abund. chl (?) after field (?)	113	0	0	25	65	L	
102.00			2 cm cal, epid, py v.	102.04 - 103.00, epidote present in most cal v.		21.9/m		4.9/m			
				at 170 ft last leaching observed							
				103.34 - 107.85 : chl. alt. and: lt gry-gr, abund. chl (?) after field (?)	85	0	0			L	
105.00			1 cm qt, chl v.	chalco patch in qt v, mottled chl. area of lt gr at 106.68 with assoc py v. cal v. ptigmatic		18.8/m					
			2 cm qt, chalco v.								
			11 cm py, cal, qt v. 7 cm py, qt v.	107.85 - 115.30 : chl alt and: mottled lt gry and gr, abund chl (?) after field (?), slight silic. throughout, brecciation of chl. in cal v., qt v. more in base, up to 7 cm in size, small amounts of moly assoc with analco.	239	1	7	76	118	L	
110.00						32.3/m		10.2/m			

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			ASSAYS				
		FROM	TO	WIDTH	SAMPLE NUMBER	g/tm Au	ppm Ag	ppm Cu	ppm Mo
		90.63		0.63	3642	.053	27.2	160	32
90.95 - 94.16: 2% py, F grain, mostly veins.				2.37	3643	.009	5.6	560	20
		93.00		1.16	3644	.003			
94.16 - 94.40: 1% py, F grain patches		94.16					2.3	340	20
		94.40		0.24	3645	.005			
							2.4	790	60
94.40 - 96.00: 1% py, F grain, veins				1.60	3646	.003			
		96.00					2.4	553	39
96.63 - 98.19: 10-15% py, C-gr, veins at 97.75-98.19: 2cm, 15cm mass py v., 5cm halo, assoc chal epid				1.75	3647	.029			
		97.75					12.0	590	18
		98.19		0.43	3648	.280			
98.19 - 103.34: 2% py, C-grain, mostly veins		99.00		0.82	3649	.005			
							40.0	1560	20
							2.3	422	32
				3.00	3650	.011			
							2.3	546	3
		102.00							
103.34 - 107.85: 5% py, M-grain, mostly veins, chalco in at v. at 106.50, F grain				3.00	3651	.005			
		105.00					2.0	528	12
				3.00	3652	.005			
							3.0	672	20
107.85 - 115.30: 5-10% py, M grain, 7cm and 11cm semi-mass py v., 1% chalco as veins and patches with qt v.		108.00							
				3.00	3653	.014			
		111.00					7.2	1560	8

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH		oz/tm Au	ppm Ag	ppm Cu %	ppm Mo
				3.00	3654	.021	4.8	1500	24
		114.00							
		115.30		1.30	3655	.008			
115.30 - 117.12: 15-20% py, 4 mass py v., most veins py and qt, C-f grain, subid-ss.				1.70	3656	.056	8.8	510	48
		117.00							
				2.12	3657	.056	7.4	212	100
		119.12							
119.12 - 120.55: 5% py, C-f grain, 3 semi-mass py v with assoc. qt and cal				0.88	3658	.024	4.2	1320	30
at 127.18: 10cm arsenopyrite in small veins and assoc. with qt v.		120.00							
				3.00	3659	.018	6.8	860	10
		123.00							
				2.55	3660	.050	8.4	650	26
		125.55							
125.55 - 131.87: 2% py, F grain, mostly veins, 3 or 4 small patches of chalc in chl and qt v.		126.00		0.45	3661	.009			
				3.00	3662	.006	%		
		129.00					2.0	120	48
				3.00	3663	.006			
							2.2	.098	48
131.87 - 141.22: 5% py, F grains, mostly veins, 16 chalc v < 1cm in size, chalc assoc with qt v., chalc concentrated 131.87-135.30 and 138.50-141.22 as the intensity of qt v is increased there		132.00							
				3.00	3664	.005			
		135.00					2.2	.101	30

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
135.00											
			70	4cm py, qt v.							
140.00			60 30 20	2cm chalc. qt v. 2cm mass chalc v. 11cm chalc. qt v. 1cm mass chalc v.	141.22-143.15: chl. alt. and: lt gr - med gr, abund chl(?) after feld(?) dramatic inc in Cu content. at 142.43	64	2	0	25	6	L
			20		moly in qt-py v. 143.15-153.76: chl. alt. and: lt gry to lt gr, highly silic. throughout, abund chl(?) after feld(?), trace moly(?) in high chalc sections. trace epid(?) in more chl areas.	196	3	1	197	7	L
145.00			50	1cm chalc. qt v.							
			40	fault	at 147.78-150.00: highly brecciated and mottled lt gry and lt gr, less silic but highly qt v.						
			20 10	3cm qt, py, chalc 2cm py v							
150.00			30	2cm qt, py, chalc v.	153.76-155.29: chl. alt. and: lt gry and gr, abund chl(?) after feld(?)	24	0	0	11	10	L
			60	15cm brecc. cal py, chl v.	brecci of chl in cal v and mottled lt gr chl and cal areas.				15.7	10.5	
155.00			50	5cm py, qt, moly v.	155.29-153.50: chl alt and: lt green, fine grained and cherty, several small patches of chl(?) after feld(?), trace moly(?) in py at v., decrease in sulphide content	20	1	0			L
									6.5		

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH		oz/tm Au	ppm Ag	% Cu	ppm Mo
				3.00	3665	.010			
							1.6	.159	38
		138.00							
				3.00	3666	.008			
							2.0	.036	60
		141.00							
141.22-143.15: 1% py, F grain, 5% chalc in veins, 5 mass to semi-mass chalc v assoc with qtz				3.00	3667	.018			
							13.0	.705	44
143.15-153.76: 10-15% py, C-F grain, mostly veins, 4 semi-mass veins assoc with qtz, 5% chalc in 37 veins semi-mass assoc with qtz.		144.00							
				3.00	3668	.008			
							3.6	.185	64
		147.00							
				3.00	3669	.008			
							3.4	.202	16
		150.00							
				3.00	3670	.008			
							3.8	.144	52
at 153.35: dissem native Cu(?)		153.00							
153.76-155.29: 1% py, F grain, veins and some dissem, no chalc				3.00	3671	.008			
							2.6	.188	50
at 154.1-154.5: dissem native Cu(?)									
155.29-158.50: <1% py, F grain, veins 29 chalc veins <1cm assoc with qtz,		156.00							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH		oz/tm Au	ppm Ag	% Cu	ppm Mo
				3.00	3672	.010			
158.50-167.00: avg 5% py, C-F grains mostly veins, some mass v with assoc at, 12 shales v elem assoc with qt v.		159.00					2.4	.130	42
				3.00	3673	.011			
		162.00					4.2	.152	8
				3.00	3674	.005			
		165.00					1.8	.060	12
				2.00	3675	.011			
		167.00					2.6	.050	12

