

ESSO MINERALS CANADA

DRILL LOG

PROJECT 2153	GROUND ELEV. 4860' 1481.3m
HOLE NO. 37	BEARING nil
LOCATION Sulphurets Gold Zone	DIP -90°
	TOTAL LENGTH 696' 212.14m
LOGGED BY Dane Bridge	HORIZONTAL PROJECT
DATE Sept 9 - 11, 1981	VERTICAL PROJECT
CONTRACTOR Arctic Diamond Drilling	ALTERATION SCALE
CORE SIZE BQ	
DATE STARTED Sept 5, move started Sept 8, drilling	
DATE COMPLETED Sept 10, drilling Sept 11, 1981 testing	TOTAL SULPHIDE SCALE
DIP TESTS 38' dip 89.2 corr brg 292.5 198' 89.5 292.5 368' 89.6 166.5 478' 87.6 160.5	
COMMENTS 588' 84.3 167.5 688' 82.3 177.5	LEGEND

"Car hole"
below
126.5m

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E Fill. cal.		
				0.00 - 5.18 : overburden							
5				5.18 - 18.85 : aphanitic andesite: med grey color, intensely fractured w. fractures every 2-5 mm, fractures are 50% healed w. hairline calcite and 50% have hairline chlorite, intense fracturing destroys all relict textures, no veins other than fracture fillings, moderately siliceous or silicified, very hard except for rare chloritic spots					M		
10	350 150 20 30			10.25 - 10.75 : sheared with gauge planes at 35-45°, abundant calcite					H		
15									M		
20	6? 40 6?			18.85 - 27.50 : aphanitic andesite med gray to locally dark green, intensely fractured w. calcite and trace chlorite on frs., moderately siliceous but w. minor med. green to dark green chloritic					H		

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E Filling		
70				64.55 - 66.90: section w disrupted bands of gray-black andesite and thicker and more intense calcite veinlets							
75				74.30 - 76.40: medium gray green section w. minor to 10%, up to 3mm chlorite grains probably after Ferrumags.					H		
80			irreg. contact	79.45 - 120.70: chloritic andesite light gray-green siliceous andesite, minor to 10% 1-3mm pale green chlorite grains probably after hornblende uniformly hard and siliceous, probably silicified, generally moderately well fractured, variable density of fine calcite on discontinuous frs, generally moderate density compared to sections higher in hole.					M		
85				86.55 - 87.87: very slightly foliated, locally heavily calcite veined, and thin py veins					H		
90			25-30°						M		

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	bio B	chl C	D	cal Fr. Filling E		
115				115.20 - 120.70: intensely fractured chloritic andesite, unit looks like a crackle breccia at the Fault contact, 3 minor 1-20 cm long bleached, silicified patches, moderate intensity of discontinuous calcite Fr. Fillings					L		
120				120.70 - 121.50: Fault zone, rock probably aphanitic lower contact andesite, broken rock and 30 cm of rock paste							
125			20° shear	121.50 - 126.55: tectonic breccia of aphanitic and: small angular clasts, closely packed, local py matrix, local coarse green-blk chl. patches, 40 cm of tourmaline matrix, 6 qz-cal v, 5-40 cm, rx mod. silicified, most clasts are mod. calcite Fr. Filled					M		
130			45° Foliation	126.55 - 130.50: aphanitic andesite							
135			45° Foliation	126.55 - 127.75: light gray, intensely fractured, possibly brecciated, 5 qz-cal veins, int silicified 127.75 - 130.50: pale green to gray-green, avg. mod. silicified, locally soft and unsilicified, int fractured, speckled w. chlorite? + py. 130.50 - 134.10: brecciated aphanitic andesite: light cream gray to dk green-black, avg mod silicic w. 10% patches of dk chl + minor brown biotite?					L		

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS								
		FROM	TO	WIDTH		oz/t Au	ppm Ag	% Cu	ppm Mo	ppm Zn	ppm As	ppb Hg		
121.50 - 126.55: avg 15-20% px, dissem, patches and interstitial to clasts, no veins		121.50												
				2.50	4788	.001		.028						
		124.00					1.8	.022	20	56	132	120		
				2.55	4789	.005		.064						
126.55 - 127.75: 5% px, 1% cp, mainly dissem, one qz v. w. cp grain		126.55					3.4	.052	22	368	148	200		
127.75 - 130.50: avg 5-7% px, 2% cp, Fine dissem and hairline short Fracture Fillings		127.75	1.20	4790	.016		3.6	.552	137	82	45	210		
			2.75	4791	.011		1.8	.420	64	68	81	150		
130.50 - 134.10: 2% px, 1% cp, dissem and closely assoc. w. chlorite		130.50												
			3.60	4792	.021		1.6	.468	76	74	53	220		
		134.10												

second Cu values are by MAS

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS								
		FROM	TO	WIDTH		g/tm Au	ppm Ag	% Cu	ppm Mo	ppm Zn	ppm As	ppb Pb		
134.10 - 136.75 : 3-5% dissemin py, tr ep,				2.65	4793	.019		.250						
		136.75					1.2	.226	66	80	12	90		
136.75 - 142.75 : 5-7% py, 1% ep, F-m grained disseminations and Fr. Fillings, moly in 2 Fr. zones				3.00	4794	.044		.430						
		139.75					1.4	.382	40	82	36	20		
				3.00	4795	.024		.660						
142.75 - 147.40 : 5% py, .2-.3% ep							2.0	.540	348	120	16	16		
		142.75												
147.40 - 156.10 : 5% py, 0.5-1% ep, 5 sections w. moly on slickensided fractures				4.65	4796	.015		.412						
		147.40					1.6	.360	92	112	52	220		
				3.00	4797	.024		.810						
		150.40					1.8	.660	380	302	81	510		
				3.00	4798	.019		.490						
		153.40					2.0	.434	280	160	98	230		
				2.70	4799	.013		.885						
		156.10					2.6	.740	296	636	260	490		

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					A	B	C	D	E		
160				157.00 - 163.00: light green aphanitic andesite, very homogenous and massive, local speckles of Frg chlorite and minor coarse dk green chl patches.							
165				163.00 - 178.50: chloritized, biotitized and silicified aphanitic andesite; section contains a few remnants of pale green, weakly silic, aphanitic and w. minor fine chlorite speckles.	/	/	/	/	/	/	/
170				163.00 - 166.12: intensely shattered and broken section w. some fault gouge; orientations of gouge zones is variable	/	/	/	/	/	/	/
175				166.12 - 170.55: very intensely fractured section, mainly pale gray highly silicified w. 50% colored to green and brown due to chlorite and biotite?, local zones w. chl on Frs and minor brown biotite? patches, local moderately intense calcite Fr filling but mainly low	/	/	/	/	/	/	/
180				170.55 - 177.20: as above but w. 2 metres of intense chlorite alteration from about 172.15 - 175.00	/	/	/	/	/	/	/
				177.20 - 178.50: alteration fades, ~ 50% aphanitic andesite w patches of chl-bio.	/	/	/	/	/	/	/

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS									
		FROM	TO	WIDTH		oz/tm Au	ppm Ag	% Cu	ppm Mo	ppm Zn	ppm As	ppb Hg			
156.10 - 163.00 : avg 41% py, widely spaced Fine to coarse patches, trace moly on a few fms				3.40	4800	.005		.275							
		159.50					1.0	.243	120	86	15	90			
				3.50	5026	.009									
							1.4	.305	102						
							1.2	.326	112	124	74	130			
163.00 - 166.12 : 3% py, 1-2% cp, minor moly		163.00													
				3.12	5027	.040									
							2.9	1.216	235						
							2.6	1.06	400	150	33	190			
		166.12													
166.12 - 177.20 : 3-5% py, 2-3% cp, mainly fine disseminated stringers and patches along intense fracturing, local zones of 30-40 cm w. 10% cp in ragged stringers and patches				3.04	5028	.029									
							2.0	1.05	350						
		169.16					1.8	0.94	520	108	95	200			
				3.97	5029	lost est. .025									
		173.13													
				4.07	5030	.034									
							2.2	.802	98						
							2.2	.700	104	90	29	180			
177.20 - 178.50 : avg 2-3% py, 41% cp		177.20													
				1.36	5031	.042									
		178.50					3.4	1.154	84						
							3.2	1.08	116	70	114	150			
				2.50	5032	.036									
							1.7	.201	21	52	25	170			
							2.0	.218							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	bio B	chl C	D	cal Filling E		
185				178.50 - 190.67: aphanitic andesite section is variable, averages moderately siliceous and weakly chloritic, minor yellow-green epidote occurs as scattered disseminations through the section locally, calcite fracture filling is intense but overall is low, minor purplish-brown patches of biotite occur to about 181.00.						L	
			10'	shear							
190			30'								
			20'	Silifications	190.67 - 192.80: aphanitic andesite: moderately chlorite and siliceous, local granular texture, avg 25% dark green chlorite patches						
			15'								
195				192.80 - 199.10: aphanitic andesite light greenish gray, intensely siliceous, very minor chlorite, local occurrence of small clasts, unit may be locally a breccia.							
200				199.10 - 209.00: aphanitic andesite moderately siliceous and chloritic, minor remnants are pale green-gray to cream colored, rx is mainly, ~50% altered to dark green chlorite						L	

