

ESSO MINERALS CANADA

DRILL LOG

PROJECT 2153	GROUND ELEV. 3495' · 1065.3m
HOLE NO. 25	BEARING 090°
LOCATION Sulphurets Gold Zone	DIP - 63°
	TOTAL LENGTH 457.5'
LOGGED BY R. Baerg, D. Budge	HORIZONTAL PROJECT 207.70m
DATE July 17/81 - 19/81	VERTICAL PROJECT 323.50m
CONTRACTOR Arctic Diamond Drilling	ALTERATION SCALE
CORE SIZE B9	
DATE STARTED July 14, 1981 6 P.M.	TOTAL SULPHIDE SCALE
DATE COMPLETED July 17, 1981 9 P.M.	
DIP TESTS none, hole abandoned due to cave, unable to reenter hole, left core barrel and tube in hole	
COMMENTS Au assays in oz/ton, metal analyses in ppm, First Au assay by Canada wide Mines - Granduc, second by Min - En Labs Ltd.	LEGEND

D. M. Budge

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH		oz/tn Au	ppm Ag	ppm Cu	ppm Mo
22.50 - 33.66: py - 5-10%, f.-mg. mainly as sm veins and in gtz veins; trace chalc as sm patches in w py, sev. obs of vis Au? in w and along py veins + patches.		24.0							
				3.00	3950	.036			
						.029	1.4	1800	2
		27.0							
				3.00	3951	.029			
						.028	2.0	1340	4
		30.0							
				3.00	3952	.012			
33.66 - 51.32: py - 15-20%, v.f. - m.g., mainly as sm veins + mass irreg. patches; trace chalc dissem w py; several obs. of vis Au? and along py veins; several obs of Ag-gr mineral in gtz veins; py incr. in int. silic zone from 44.30 - 51.32		33.0							
				3.00	3953	.028			
						.021	2.4	1980	12
		36.0							
				3.00	3954	.013			
						.011	2.0	850	1
		39.0							
				3.00	3955	.010			
						.011	1.8	1000	12
		42.0							
				2.30	3956	.009			
						.010	1.2	650	6
		44.30							
				0.70	3957	.016			
		45.0				.016	1.2	1050	2

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH		oz/ton Au	ppm Ag	ppm Cu	ppm Mo
		45.0							
				3.00	3958	.023 .020	1.9	1500	76
		48.0		3.0	3959	.029 .028	2.8	1300	24
51.32-54.00: py=5%, f.-m.g., mainly as sm. veins and patches; lobs of Ag-gry min. in qtz vein	51.0			1.0	3960	.019 .018	2.2	1100	19
54.00-55.46: py=25-30%, f.-m.g. mainly as irreg patches + dissem; several obs of vis Au? w py; several sm. hairline veins + patches of Ag-gry mineral in qtz veins.	54.0 54.46			0.46	3961 3962	.157 .116 .059	2.6	600	8
55.46-59.03: py=5%, f.-m.g., mainly as sm. veins; trace chalco as dissem grains; trace maly. in qtz vein + dissem., several obs. of Ag-gry min. in qtz veins.	55.46			1.59	3963	.026 .027	1.9	750	8
	60.0			3.00	3964	.012 .011	1.5	600	1
				3.00	3965	.033 .029	2.2	1750	10
	63.0			3.00	3966	.009 .008	1.2	391	20
	66.0			3.00	3967	.007 .002	0.8	472	36

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.	
					PY VEINS			qtz	cal			
					<1cm	1-10	>10					
A	B	C	D	E								
70.0				69.08 - 74.06: silic. chl. and.; med gr-gry to gry; int qtz veining veins to 12cm, usually w minor py, locally w ep + cal; local pale gr chl grains, anhedral to subhed. 1-2mm, locally bleached to a pale white (ep?); abund ep alt in w. silic zones, local less alt zones w dk gr chl grains in pale gr chl ground mass; silic zones very bleached, only a few chl grains remain.	15	1	0	87	0	F		
					3.2/m			17.5				
75.0				74.06 - 77.41: silic-chl and.; med gr-gry; mod-int qtz veined, locally well silic, veins to 4cm; locally abund. dk gr chl grains, 1-3mm, anhedral - subhed., 10-15% locally; local patches of w. alt chl. and. of irreg. shape in silic zones; fract. locally oxidized and/or w chl.	17	0	0	48	3	F		
					5.1			14.3				
				77.41 - 81.50: aph. chl. and.; med pale gr to dk. gr; int. fract., locally healed w cal., chl + cal on fract. also locally graph. on fract. (locally foliated); minor qtz + cal veining, veins to 4mm.	17	0	0	41	5	H		
				81.50 - 82.68: chl. and.; med gr-gry; minor amt. of anhedral to subhed. dk gr chl. grains (<1mm); tabular pale white to white ep grains (after fs?) fault contact w lower unit; minor qtz-cal veining, veins to 3mm; cal healing of hairline fract.; chl + minor ep on fract.	8	0	0	4	2	M		
					6.8			3.4				
85.0				82.68 - 85.01: silic. alt. and.; lt-med gry; mod silic, minor qtz veining veins to 3mm; int fract and pyritic; local f. pale gr. relic chl. grains; just 50 cm is crushed - broken rock. chl + minor ep + py on fract.	15	0	0	6	2	H		
					6.4			2.6				
90.0				85.01 - 91.80: chl. and.; dk gr to med. gry; locally silic, inter py in silic zones; minor qtz-cal veining, veins to 3cm, rock is int. broken up, local patches of crushed rock and fault	0	0	0	30	4	H		
					0.0			4.4/m				

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH		oz/tm Au	ppm Ag	ppm Cu	ppm Mo
		69.0							
69.08 - 74.06: py - 5-10%, f.-m.g., mainly as sm. veins + irreg. patches; lobs. of Ag-gry min in gtz vein; l obs. of malachite staining on fract.				3.0	3968	.026 .017	1.2	886	14
		72.0							
				3.0	3969	.018 .011	0.8	466	4
74.06 - 77.41: py - 5%, f.-m.g., mainly as sm. veins + patches; trace chalco on a fract.		75.0							
				3.0	3970	.020 .010	1.0	429	4
77.41 - 81.50: py - 5%, f.-m.g., mainly as sm. veins, on fracts + dissem patches; trace chalco on fract.		78.0							
				3.0	3971	.026 .020	2.0	976	2
		81.0							
81.50 - 82.68: py - 2-3%, f.-m.g., mainly as sm. veins; trace chalco, on fracts.				3.0	3972	.022			
82.68 - 85.01: py - 20%, f.-m.g., mainly as dissem; trace chalco as sm. patches w py.		84.0				.017	1.6	1050	1
85.01 - 91.80: py - 5-10%, f.-m.g. mainly as dissem. patches; trace chalco as sm patches w py; trace Ag-gry min in mass. gtz zone.		87.0		3.0	3973	.018 .020	2.0	1100	4
				3.0	3974	.017 .042	3.2	720	2
		90.0							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ	
					PY <1cm A	veins 1-10 B	>10 C	qtz ✓ D	cal ✓ E			
90.0				gauge; local zones w 1-3 mm dk gr. chl grains in f. pale gr chl groundmass; crushed rock has abund silic. and chl. frags; frags to 1.5cm. 91.80-95.10: silic + chl. and.; lt. gry - lt gr.; extremely fract., sheared + crushed, abund pale gr. translucent chl frags and abund white to pale gry silic frags; local chl and. frags w pale gr chl grains; abund chl + sericite alt around frags + in shear zones; appears to be main zone of the fault from 82.6 - 98.45. 95.10 - 100.45: chl. and.; lt + med gry-gr; w. to mod. silic locally, abund qtz veining, veins to 2.5cm; abund. dk gr chl grains in upper half of unit, locally grains show alignment and are less distinct beginning of foliation?; chl grains fade in lower more silic half of unit, groundmass is pale to med gr translucent chl; upper part of unit is int. fract w local chl + ser. alt.								
95.0				20° shear	0	0	0	2	0	H		
					0/m		0.6/m					
100.0				45° 3cm py.v.	14	0	0	46	1	H		
					2.6		8.6					
105.0				60° 2.5cm py.v.	11	2	0	73	0	L		
					2.6		14.5					
				40° mineralized qtz v., 27cm								
110.0				35° mineralized qtz v., 7cm	86	2	0	132	2	H		
					7.0		10.5					
				105.49-118.10: silic. chl. and.; lt-med gry.; int. silic and locally pyritic, abund. qtz veining, veins to 27cm, abund. discont. irreg qtz veinlets; locally fract. + healed w qtz.; one local spot w relic chl. and. text. f. 1-2mm chl grains; text. varies from aph. to f. granular; local med silic. zones w pale gr. chl groundmass,								

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH		oz/ton Au	ppm Ag	ppm Cu	ppm Mo
		90.0							
				3.0	3975	.009			
91.80-95.10: py - 10-15%, v.f.-m g., all as f. dissemin py.		93.0				.009	1.6	578	1
				3.0	3976	.012			
						.031	1.4	1320	140
95.10-100.45: py - 5-10%, f.-m g., mainly as sm. veins + f. dissemin; trace chalc on a fract. as sm. patch, lobs. of malachite staining on a fract		96.0		3.0	3977	.039			
						.031	1.4	1880	16
		99.0							
100.45-105.49: py - 5%, f.-m.g., mainly as sm. veins, trace - minor chalc, one section 104.53-104.73 has \approx 5% chalc as sm. to med patches + dissemin; trace Ag-gry min. in qtz vein				3.0	3978	.010			
						.011	1.2	850	10
		102.0							
				3.0	3979	.038			
						.031	1.8	2200	8
		105.0							
105.49-118.10: py - 15-20%, f.-m.g., mainly as sm. veins + mass. dissemin patches; minor chalc, several obs. of chalc in qtz veins, also as sm. patches + dissemin in groundmass several obs. of galena + sphalerite in qtz veins, usually assoc w chalc; several obs. of vis Au? in w py veins + patches; several obs. of Ag-gry min. in qtz veins		105.49	0.49	3.0	3980	.023			
						.013	1.4	828	24
			2.51	3.0	3981	.045			
						.041	2.2	1330	18
		108.0							
				3.0	3982	.036			
						.029	2.0	778	1
		111.0							
				3.0	3983	.058			
						.050	1.6	546	10

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					py <1cm	veins 1-10	qtz >10	cal			
					A	B	C	D	E		
115.0											
				55 5cm py. v.							
120.0				118.10-132.25: chl. and; pale gry-gr to med. gr.; abund. 1-3mm pale to dk. gr. chl. grains, locally 10-15%; anhcd. to euhcd.; local ep grains 1-2mm after fs.? minor ca alt. locally; very abund. qtz veining throughout, veins to 4cm, locally w py and trace chalc.; locally silic and bleached to pale gr; local zones w dk gr. chl, along qtz-py. veins and as irreg. patches; toward bottom of unit chl. grains begin to show alignment, possible fol. development	53	1	0	185	2	L	
						3.8		13.1			
125.0											
130.0											
135.0				30 foliation? 132.25-139.45: f. g. chl. and; med. gr. to lt gr; unsilic. chl. and zones have abund. f. dk gr chl grains (<1mm), in silic zones these are bleached to pale gr. or destroyed; locally int. silic, abund qtz veining throughout, veins to 5cm.	29	0	0	62	2	L	
						4.0		8.6			

MINERALIZATION DESCRIPTION	TOTAL SULPHIDE	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH		oz/tm Au	ppm Ag	ppm Cu	ppm Mo
		114.0							
				3.00	3984	.061			
						.049	2.0	990	24
		117.0							
				1.10	3985	.061			
118.10-132.25: py- 5% ₀ , f.-m.g., mainly as sm veins;		118.10				.049	2.8	700	32
trace chalc, in qtz veins + dissem.,				1.90	3986	.008			
several obs. of Ag-gry min. in qtz veins.		120.0				.008	1.6	1120	40
				3.0	3987	.045			
						.012	1.6	800	1
		123.0							
				3.00	3988	.036			
						.016	1.4	830	1
		126.0							
				2.00	3989	.058			
						.010	1.2	818	1
		129.0							
				3.00	3990	.061			
						.010	1.6	1080	2
		132.0							
132.25-139.45: py- 5-10% ₀ , f.-m.g., mainly as sm. veins +									
dissem.; trace chalc, as dissem				3.00	3991	.016			
and in several qtz veins; several						.012	1.6	840	1
obs. of Ag-gry min. in qtz veins.		135.0							

