

DIAMOND DRILL LOG

013321

Hole No. 72 - 1

Page No. 1

Logged By M. R. Wolfhard

Property Fish Lake

October, 1972

Approved By \_\_\_\_\_

Footage		% Sulphide	Py/Cpy	%	Diss. sulphide as % of total	Rock Description and Notes
From	To					
0	120					Casing.
20	157	1-1/2 to 2	5/1	.13	40	Diorite hypidiomorphic granular to porphyritic. 15% mafics, all chloritized. 5 - 10% anhedral quartz, 65% green clay altered plagioclase, 45% fresh? white feldspar. Min. 1) pyrite, chalcopyrite in chloritized mafic 2) pyrite, chalcopyrite in very dark chloritized veinlets. 3) pyrite, chalcopyrite in calcite veinlets. 4) pyrite, chalcopyrite in quartz veinlets. Most of the cu is in 2), then 4) then 1) 3 cuts 2.
			20/1			
			3/1			
			2/1			
			2/1 - 1/1			
57	174	1-1 and 1/2	3/1	.12	40	Feldspar porphyry. Light tan aphanitic groundmass with 30% 1x2mm subhedral white feldspar, 5% chloritized mafic. Feldspar softened but not visibly altered. Mineralized. Min. 1) pyrite, chalcopyrite in chloritized mafics. 2) Trace pyrite, chalcopyrite in white quartz veinlets. 3) pyrite, chalcopyrite in clear granular quartz veinlets with light green sericite? chlorite? selvage. Hem. associated chalcopyrite, some carbonate. Most cu in 1), then 3). 2 cuts 3.
			2/1			
			5/1			

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Hole No. 72 - 1 Page No. 2

Logged By M. R. Wolfhard

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October, 1972

Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
74	193	CORE MISSING			
93	197	CORE MISSING			
97	263	2 Significant core prob. ground	5/1 5/1 3/1 5/1	40 .13 120-150, 235-263.	Feldspar porphyritic quartz diorite to granodiorite. Mafics chloritized; feldspar medium soft. Mineralized. Min. 1) pyrite, chalcopyrite, hem in mafic. py/hem 1 or 2/1. 2) hem ult. (1 seen) 3) pyrite, chalcopyrite with dark chl. 4) pyrite, chalcopyrite with carbonate. An inch wide quartz ppy dike @ 254 feet. 4 cuts 3. Most cu in 30 then 1).

DIAMOND DRILL LOG

Hole No. 72 - 3

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Logged By M. R. Wolfhard

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October, 1972

Footage		% Sulphide	Py/Cpy	Diss. sulphide % as % of total	Rock Description and Notes
From	To				
0	6				Casing.
6	73	1-2	5/1	30 .18	Feldspar porphyry, 50% 1x2mm tan, soft feldspar planes in an aplitic to aplaitic groundmass with some <del>sq.</del> quartz. 5% chl. mafic. Weathered, partly leached to 70 feet. Some hydromica or sericitized mafic.  Min. 1) pyrite, chalcopyrite in mafics and dis. May have more than 1 rock type. Probably averages 2/1.  2) pyrite, chalcopyrite in hairline quartz veinlets with sericite selvage.  3) pyrite, chalcopyrite hem in 1-2mm quartz veinlets.
			1/3 to 10/1		
			3/1		
			10/1		
73	93	1	3/1	50 .14	Quartz sericite rock, cut by quartz veinlets.  Min. 1) pyrite, chalcopyrite dis.  2) pyrite, chalcopyrite in quartz veinlets.  3) pyrite in sericite selvage veinlets. 3 cuts 2. Most cu in 1, 2.
			5/1		
			1/1		
93	119	CORE MISSING			
119	153	1	1/2	60 .18	Biotite chlorite hornfels, patchy inter grown areas of each, suggests chloritization of a biotite hornfel.  Min. 1) hem. veinlets.  2) pyrite, chalcopyrite dis.  3) granular quartz veinlets with hem. selvage. Light green
			1/5		

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Hole No. 72 - 3

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
53	190	1	10/1  7/1 variable	20 .20	chlorite or sericite selvage, minor pyrite, chalcopyrite. 4) pyrite in carbonate veinlets. 4 cuts 3. Most cu in 2. Mixed aphanitic tan rocks, chlorite hornfels, sericite altered intrusive or sandstone. Min. 1) qtz. dis. 2) pyrite, chalcopyrite hem. in quartz veinlets. 3) pyrite in carbonate. Possible breccia, but no clear evidence Most cu in 2.
90	236	1/2	2/1 1/1 2/1	50 .20	Meta andesite or diorite in part. Min, 1) pyrite, chalcopyrite dis. 2) pyrite, chalcopyrite in light green chlorite? veinlets. 3) Trace pyrite in clear quartz veinlets. 3 cuts 2. Most cu in 1. 4) Pyrite in veinlets.
36	242	1	100/1	.06	Quartz monzonite? hyp. gran. strong clay alteration of plagioclase Clay frags. connect plag. grains. Min. 1) pyrite dis.

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Hole No. N - 4

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Logged By M. R. Wolfhard

Property Fish Lake

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
0	43	CASING			
50	60	CORE MISSING			
70	80	CORE MISSING			
99	108	CORE MISSING			
109	119	CORE MISSING			
140	150	CORE MISSING			
160	170	CORE MISSING			
190	200	CORE MISSING			
43	67	1-1/2	10/1	20	Hyp. gran? quartz feldspathic rocks, 1-1/2mm average grain size pervasive sericite, minor quartz. Min. 1) pyrite, chalcopyrite, dis in <1mm clots. 2) pyrite, chalcopyrite in fractures with quartz-sericite selvages. Most cu in 1). Fracs. oxidized to 60, partial erratic oxide on fracs to 95. Gradational to next unit.
			2/1		
			> 10/1		
67	200	2	3/1	60	Porphyritic to hyp gran diorite to quartz diorite. 50 - 70% feldspar average size 1mm, subhedral with interstitial mafics, some quartz. Feldspar soft, greenish (montmorillonite?) mafics chloritized. Min. 1) pyrite, chalcopyrite dis. in mafics 2) pyrite in sericite? fractures. 3) Clear granular quartz veinlets with monzonite.
			1 - 2/1		
			>10/1		

## DIAMOND DRILL LOG

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
57	200	1/2 - 1	1 - 2/1  1/2 >10/1	80	3 cuts 2. Most cu in 1). Main rock is cut by dikes, feld ppy; 40% 1-2mm euhedral plag? altered to yellow green clay mixture in a groundmass of fine crystalline white (orthoclase?) feldspar, minor quartz. Rock type probably quartz monzonite. Min. 1) pyrite, chalcopyrite dis. 2) pyrite, chalcopyrite in veinlets with sericite selvage. Most cu in 1)

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
0	28	CASING			
28	35.5	<del>CORE MISSING</del>			Feldspar porphyry, weathered, oxide cut Fe. similar to 106 onward.
40	50	CORE MISSING			
10	120	CORE MISSING			
40	150	CORE MISSING			
170	180	CORE MISSING			
35.5	106	< 1/4 overall	100/1		Quartz diorite dike leucocratic, crude foliation 60° to 45° to core. Centre of dike is hyp gran fine grain (avg 1mm quartz diorite with 10% chloritized mafic, pervasive weak to medium sericite. No sulphide. Margins are fine crystalline with tan altered hornblende? phenocrysts, 1/2% dis. pyrite pervasive clay.
106	200	1/2 - 1	1/1	80	Quartz diorite porphyry, 40% 2 - 3mm sub-anhedral feldspar, now mainly soft greenish yellow clay. Some short (<10') sections have white, fairly hard phenocrysts and some sections (~10') near quartz veinlets are green clay (most morillinite?). Some strong bleaching near quartz veinlets. Groundmass is fine crystalline white, clear feldspar, quartz, and 10% irregular clots of chloritized mafic.
			1/2		Min. 1) pyrite, chalcopyrite in mafics. 2) pyrite, chalcopyrite quartz veinlets spaced 1/5'. pyrite, chalcopyrite 3/1. 3) pyrite in veinlets with sericite envelopes oriented 45° to core

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
					Pyrite/chalcopyrite 100/1 Essentially all cu in 1) 3) cuts 2).



DIAMOND DRILL LOG

Hole No. N - 2

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Footage.		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
0	79	Casing			
0	100	CORE MISSING			
20	130	CORE MISSING			
50	160	CORE MISSING			
70	200	CORE MISSING			
9	115	4	> 10/1	90	Recrystallized intrusive, possibly same original rocks as 115 - 200. Now consists of fine to medium mosaic of quartz and white sericitized feldspar with clots of fine pyrite/pearly sericite. Min. 1) pyrite dis. with sericite clots. 2) chalcopyrite dis. 3) pyrite, chalcopyrite hem in veinlets. 4) quartz veinlets with trace pyrite, hem? 4 cuts 3. 1/2 cu in 2).
15	150	2	10/1	40	Quartz diorite porphyry as in Hole N - 1, intruded by leuco quartz-feldspar porphyry of similar texture lacking only the mafic. Mafic chloritized, feldspars fresh to yellow green and soft in dark porphyry uniformly yellow green and slightly soft in leuco porphyry. Leuco has minor quartz phenos. Min. 1) pyrite, chalcopyrite dis. in mafic. 2) pyrite, chalcopyrite hem. in clear granular quartz veinlets with sericite selvage. 3) White quartz veinlets.
			5/1		
			10/1		

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Hole No. N - 2

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
160	190	1/2	4/1 1/2 10/1	0	<p>3) cuts 2).</p> <p>Quartz diorite porphyry as in N - 1, fresh feldspar, &lt;1% dis. magnetite. Mafics chloritized.</p> <p>Min. 1) Medium green chlorite veinlets with chalcopyrite, pyrite. 2) Dark green chlorite veinlets with chalcopyrite, pyrite, hem. epidote.</p> <p>2) cuts 1).</p>

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
0	42	CASING			
42	80	1-1/2 to 2	1/1	50 dis.	White fine crystalline rocks, weakly softened. Probably meta sed. or volcanic, possibly metadiorite now quartz-sericite fine crystalline intergrowth. Oxide in frags. some transported. Oxidized to 80'. Clots of sulph-sericite. Min. 1) Pyrite, chalcopyrite dis. 2) Clots of fine sericite with pyrite, chalcopyrite. 3) Quartz hematite veinlets. 4) Frags. with quartz 1mm sericite over 2mm, with pyrite, chalcopyrite, hem? Trace MoS <sub>2</sub> . Most cu with 1), 4). 3) cuts 4)?
			1/3		
			5/1		
			2/1		
80	90	CORE MISSING			
90	112	< 1/2	1/3		Feldspar porphyry as N - 2. Mirolitic, feldspar fresh, mafic chloritized. < 1% dis. magnetite. Min. 1) chalcopyrite, pyrite dis.
			1/3		
112	127				Felsite to fine feld porphyry as 90 - 112, no sulphur, cut by cataclastic? zone 116 - 118 with 2% dis. pyrite @ 127 is fault gouge.
127	163	1 - 1 and 1/2	1/1 or 1 and 1/2		Leuco feldspar porphyry, 30% 1 - 4mm subhedral cream to white feldspar in a white fine crystalline matrix. Feldspar medium soft, groundmass hard. 1% quartz phenocrysts.

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Hole No. B

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October, 1972

Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
			1/1		Min. 1) chalcopryite, hem. dis. 2) pyrite in frags. with sericite selvage. 3) pyrite, chalcopryite in quartz irregular veinlets. Trace MoS <sub>2</sub> .
			1/1		Relation 2) to 3) unknown.
63	170				Feld porphyry, avg. 1mm phenos, 2% dis. mag. Fracture sulphides with quartz.
70	180	CORE MISSING			
180	220				White fine to medium crystalline feldspar (quartz) <sup>rock</sup> rods with 2 to 15mm clots of sericite (near 180) grading to chlorite (near 220) feldspar medium soft.
			1/2		Min. 1) chalcopryite, pyrite dis. in clots and throughout.
			2/1		2) quartz carbonate veinlets, white.
			1/1		3) quartz sericite veinlets, clear, granular hem., chalcopryite pyrite.
					4) pyrite in veinlets.
					3 cuts 2). Most cu in 1), 3.
180	244	CORE MISSING			
244	260	1 - 1 and 1/2	2/1	60	Light coloured med. crystalline feldspar rock, sericite clots.
			1/1		Min. 1) chalcopryite, pyrite dis. in sericite clots. 2) clear quartz veinlets with minor sulphides.

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Hole No. B

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
			3/1		3) white quartz carbonate with minor sulphides. 4) fractures with chalcopyrite, pyrite. 2) cuts 4). 3) cuts 2).
60	270	CORE MISSING			
70	340	1-1/2	3/2	30	Light coloured to medium green fine crystalline rock. Light colour has sericite? medium green has chlorite. Min. 1) chalcopyrite, pyrite dis. 2) sericite-quartz veinlets with pyrite chalcopyrite 2/1 3) white quartz (carbonate?) veinlets. 4) clear granular quartz veinlets. 3) cuts 2).
			1 - 2/1		
			2/1		
			1/1		
310	320	CORE MISSING			
340	350	CORE MISSING			
350	375	1-1/2	1/2	40	Biotite hornfels, meta wacke, average grains size 0.5mm. Biotite to chlorite matrix. Min. 1) pyrite, chalcopyrite dis. 2) hem. veinlets. 3) pyrite, chalcopyrite in clear granular quartz veinlets. 4) pyrite, chalcopyrite in white quartz clay? or carbonate? veinlets.
			1/5		
			1/1		
			3/1		

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
375	390				3) and 4) cut 2). 4) cuts 3). 1/2 cu in 1). Similar to 350 - 375 except rock mafic has little mafic, biotite? in clots only.
390	400	CORE MISSING			
400	450	1 - 1 and 1/2	1/1  1/1		Leuco meta volcanic? or diorite? felsite all medium soft, no visible clay grains. Min. 1) pyrite, chalcopyrite dis. 1a) hem. dis. 0 - 2%. 2) pyrite, chalcopyrite, hem, bn on frags. with sericite. py/bn 1-/1 3) pyrite, chalcopyrite in clear granular quartz veinlets. 4) hem.
450	460	CORE MISSING			3) cuts 2). Most cu in 2). 2) and 3) cut 4). 5) Grey chy. quartz and carbonate and minor bornite, chalcopyrite. May be youngest.
450	460	CORE MISSING			
460	481	1-1/2	2/1 (bn present) py/bn 5 - 10/1	30	Meta volcanic? or diorite? fine to medium crystalline, medium soft, tan to light green rock. Green colour is probably montmoritite, tan is probably sericite-

DIAMOND DRILL LOG

Hole No. B

Page No. 15

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
			3/1		Min. 1) pyrite, chalcopryite, bn. dis. py/bn 20/1 2) magnetite grains in clear granular quartz with sericite. 3) pyrite, chalcopryite, bn. in frags. with sericite selvage. 4) clear granular quartz veinlets with trace chalcopryite. 4 cuts 3) cuts 2). More cu in 3).
481	495	2	10/1		Mixed sheared, strongly sericitized metavolcanic? or metaclorite? and partially kaolinized quartz feldspar porphyry. <u>Strong shearing.</u>
			10/1		Min. 1) pyrite, chalcopryite on fractures with clear granular quartz. 2) Trace py. dis.
495	500	CORE MISSING			
500	503	1/2	1/1 1% mag. dis.	0	Leuco quartz feldspar porphyry. 30% cream, medium soft, subhedra feldspar 1/2 - 3mm, in a light fine crystalline matrix. Min. 1) magnetite dis. 2) pyrite, chalcopryite, mag. and/or hem. in frags. with qtz 3) clear quartz veinlets with trace chalcopryite, pyrite. 3) cuts 2).
			1/1		

DIAMOND DRILL LOG

Hole No. 6-2 C

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Property Fish Lake

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October, 1972

Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
0	10	CASING		50	
10	269	2	3/1		Diorite hypidi omorphic granular to porphyritic. Feldspars fresh to weakly softened subhedral. Interstadial mafics chloritized. average feld. 1-1/2mm.
			3 - 5/1		Min. 1) pyrite, chalcopyrite, dis. chalcopyrite with dark chl.clots
			1 - 3/1		2) pyrite, chalcopyrite, hem, mag in slightly vuggy sericite minor quartz frags.
70	80	CORE MISSING			
110	120	CORE MISSING			
170	180	CORE MISSING			
210	220	CORE MISSING			
			Recovery looks abysmal (say <50%) 100 - 180		
222	225				Leuco feldspar porphyry 40% sub-euhedral phenos 1 - 4mm.
230	245				Is bleached, weakly, foliate at 20% to core axis.
					Oxidized on frags. to 95'.
269	370	1 - 1 and 1/2	1/1	60	Leuco feldspar (+ quartz) rock average grain size of subhedral, medium soft feldspars 1mm.
			1/5		Min. 1) pyrite, chalcopyrite dis.
					2) clear granular quartz veinlets with minor pyrite.
					3) carbonate veinlets with trace sulphides.
					4) magnetite veinlets.



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Hole No.     C    

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
370	380	CORE MISSING			5) pyrite quartz veinlets with sericite selvage. 3) cuts 2). 5) cuts 2). 3) cuts 5).
380	419	1-1/2	1/1	60	White to light <sup>green</sup> felsite, leuco rock as 269 - 370. Felsites are probably feldspar porphyries with 10% 1 mm phenocrysts All rocks medium soft, some have 5% chlorite. Mineralized as 269 - 370 except for 4).
420	430	CORE MISSING			
419	556	2 1 (but note 90% of mag. dis.) Dark 432 - 447 525 - 537 Leuco 419 - 432 517 - 525	3/1 1/1 471 - 504 544 - 556 447 - 471 537 - 544	60 dis in leuco 40 dis in dark	Alternating leuco feldspar rock hyp gran to porphyritic, avg. 1mm and hyp. gran diorite to micro diorite. Average grain size decrease from 1mm near 419 to 1/2mm near 556. This may be metavolcanic. Light to dark contacts are sharp to gradational over a few inches. Dark rock is chloritized and bleached near contacts, but average grain size in leuco rocks shows no chilling effect. Feldspars medium soft in leuco, fresh to very weakly soft in dark rock. Leuco min. 1) pyrite, chalcopryite dis. 2) hem. dis. and frac. 3) pyrite, chalcopryite in veinlets with sericite selvage 4) quartz-carbonate veinlets. 4) cuts 3). Most cu in 1), 3). Dark is min. 1) pyrite, chalcopryite mag. dis. 2) pyrite, chalcopryite in sericite veinlets.
			3 - 5/1		
			1 - 2/1		
			1/5 py/mag	1/60	
			2/1		

DIAMOND DRILL LOG

Hole No. C

Page No. 18

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
56	603	1/2	1 - 2/1  1/5	50 dis.	<p>3) pyrite in veinlets with sericite selvage. 3) cuts 2)</p> <p>Quartz feldspar porphyry as in bottom of Hole B. Feldspar kaolinized in part. Mafics sericitized. Slicken sides @ 560.</p> <p>Min. 1) pyrite, chalcopyrite dis. 2) sulphide veinlets with no selvage. 3) barren clear granular quartz veinlets, most cu in 1.</p>

## DIAMOND DRILL LOG

Hole No. DPage No. 19Logged By M. R. WolfhardProperty Fish Lake

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
0	23	CASING			
3	340	3/4	10/1 (except near collar; there 1-1/2%, py/cpy 5/1)	80	Diorite to quartz diorite, average grain size of the 50% subhedral feldspar 1 - 1 and 1/2mm. Feldspar alteration varies from strong argilic (chalky, soft clay smell) to weak argilic (chalky, hard) over 23 - 200. 200 - 300 feldspar is hard to very weakly soft, slightly chalky, 300 - 340, strong argilic. Quartz, when present, is interstitial. Mafics are chloritized to partially chloritized.  Min. 1) pyrite, chalcopyrite dis. 2) pyrite in frags. with sericite selvages. 3) pyrite in clay veinlets.
10	50	CORE MISSING			
20	130	CORE MISSING			
10	220	CORE MISSING			
00	310	CORE MISSING			
40	370	1-1/2	10/1	80	Diorite, strong argilic alteration of feldspar and groundmass. Bleached.  Min. 1) pyrite, chalcopyrite dis. 2) pyrite in frags.
70	380	CORE MISSING			
180	430	1-1/2	10/1	60	Diorite to quartz diorite as before 340. Weak argilic alteration throughout, chlorite throughout.

DIAMOND DRILL LOG

Hole No. D Page No. 20

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
430		CORE MISSING	10/1		Min. 1) pyrite, chalcopyrite dis. 2) pyrite on frags. 385 - 390 Leuco feldspar rock, average grain size 3/4mm, with 40% 5 - 10mm circular sericite quartz clots with a rim of chlorite to pyrite.

# DIAMOND DRILL LOG

Hole No. E Page No. 21

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
0	46	OVERBURDEN			
16	230	3/4	1/1	70	Felsite with 20% 1 - 4mm sericite clots (probably meta feld. porphyry) . Groundmass white to tan, very fine crystalline quartzose with soft clay. Oxide to 65'. Min. 1) pyrite, chalcopyrite dis. in sericite clots. 2) pyrite, chalcopyrite, sericite in hairline fractures.
70	80	CORE MISSING	1/1		
50	160	CORE MISSING	1/1		
30	250				Feldspar porphyry, probably a trend equivalent of 250 - 260 rocks. Mag. alt. to hem, feldspar to sericite or montmorillonite mafic to light coloured mash, 1% 1mm quartz pheno's.
150	260				Quartz diorite porphyry 40% subhedral 1 - 4mm fresh to weakly soft feldspar in chloritic matrix. <5% 1 - 2mm quartz phenos. Min & Trace dis. and frac. control pyrite, chalcopyrite.
260	270	CORE MISSING			
270	312	1-1/2 to 2	3/1	40	270 - 280 fine crystalline softened feldspar rock. 280 - 285 diorite porphyry, variously altered. 285 - 289 meta sed. 289 - 294 as 270 - 280 294 - 308 sericitized diorite? 308 - 312 as 270 - 280 Min. 1) pyrite, chalcopyrite dis.
			2/1		

DIAMOND DRILL LOG

Hole No. F

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
			5/1		2) pyrite, chalcopyrite in clear granular quartz with sericite selvage.
			10/1		3) pyrite, chalcopyrite in fractures.
312	320				2) cuts 3) Quartz diorite porphyry, feldspar cream, soft, mafic chloritized. Trace chalcopyrite, pyrite dis and frac. 1% dis. mag. altered to hem.
320	326	2	3/1	60	Meta microdiorite, chloritized, no visible grains of sericite.
326	336	1	3/1	20	Quartz diorite porphyry, feldspar altered, groundmass chloritized to bleached. Some visible sericite in groundmass.
336	355	2	3/1	40	Felsite with 20% 2 - 4mm sericite clots soft tan groundmass.
			1/1		Min. 1) pyrite, chalcopyrite dis.
			2/1		2) pyrite, chalcopyrite on fractures with a few clear quartz grains, sericite selvage.
			4/1		3) pyrite, chalcopyrite on frac.
					3) cuts 2).
355	370	1	3/1		Quartz diorite porphyry as 326 - 336. No sericite grains visible.
370	380	CORE MISSING			
380	398	1-1/2	1/2	60	Fine grain quartz diorite average 3/4mm chloritized, sub-anhedral feldspar soft, probably sericitized.
			1/5		Min. 1) pyrite, chalcopyrite dis.
			5/1 mag/cpy		2) mag, chalcopyrite in clear granular quartz veinlets.

DIAMOND DRILL LOG

Hole No. E

Page No. 23

Logged By M. R. Wolfhard

Property Fish Lake

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October, 1972

Footage.		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
78	402		1/1		3) pyrite, chalcopyrite on frags. Narrow dike of leuco feldspar (minor quartz) porphyry surrounded by bleaching and hem atitization of magnetite.
82	433	1	1/5		Fine grain quartz diorite as 380 - 398. Light coloured 415 - 422, with hematized mag, sericite clots 4mm. Min. 1) mag, chalcopyrite dis. 2) pyrite, chalcopyrite in clear granular quartz veinlets. 3) Cream carbonate without sulphide.
33	453	1-1/2	5/1 mag/cpy 1/1	30	3) cuts 2). Leuco feldspar rock with 4mm quartz sericite clots. This is pretty clearly an alteration of the microdiorite. Min. 1) pyrite, chalcopyrite dis. hem. after mag. dis. 2) pyrite, chalcopyrite, hem after mag. in clear quartz veinlets. 3) quartz carbonate veins with pyrite.
453	700	2	1/1	30	Micro diorite grading to meta sed or tuff. Massive chlorite clots to 4mm throughout. Bleached, hematized as 433 - 453 from 484 - 499. Bleached, clay altered fault? bx healed with mineralized quartz, unmineralized carbonate 592 - 596. Micro dio meta sed. Min. 1) pyrite, chalcopyrite dis. (some mag.)
			1/1		

DIAMOND DRILL LOG

Hole No. E

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
			1/1		2) pyrite, chalcopryite in clear granular vuggy veinlets with some sericite grains. 3) carbonate veinlets to 2mm wide. 3) cuts 2). Intensity of 3) increases to 700'.
470	480	CORE MISSING			
580	590	CORE MISSING			
650	660	CORE MISSING			



DIAMOND DRILL LOG

Hole No. 69 - 6

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Logged By M. R. Wolfhard

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October, 1972

Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
108	360	<1/2	1-1	10	<p>Quartz diorite porphyry. Chloritized. Feldspar generally fresh to very weakly soft. 1% dis. mag. No dis. sulphur. Minor pyrite on fractures. Weakly oxidized on fractures to 128'.</p> <p>Cut? by feldspar porphyry dike, 20% 1 - 4mm phenocrysts in light crystalline matrix, 1/2% chalcopyrite, dis and frac. with quartz 140' - 155'.</p> <p>Bleached and mineralized on quartz fractures with pyrite, chalcopyrite 5/1.</p> <p>160' - 200'</p> <p>Box missing 233 - 258</p>
360	500	1-1/2	2/1	20	<p>Bleached softened micro diorite and/or meta sediments. All fine to medium crystalline, cream to light green. More light green to 500'. Both have free interstitial quartz. Green has chlorite interstitial, fracture magnetite and hematite. Green has fracture hematite.</p> <p>Min. 1) pyrite, chalcopyrite dis.</p> <p>2) magnetite (hem) in clear granular quartz veinlets.</p> <p>3) pyrite, chalcopyrite in quartz carbonate veinlets.</p> <p>4) pyrite, chalcopyrite in quartz carbonate veinlets.</p> <p>2) older than 3) older than 4)</p> <p>5) minor veinlets of pyrite with sericite selvage.</p>
500	590	3/4	3/1	30?	<p>Fine to medium crystalline green rock. Chlorite interstitial and in 2 - 4mm clots. Feldspar weak, soft to fresh. 1 - 2% mag. dis.</p> <p>Min. 1) pyrite, chalcopyrite dis. 1/4mm pyrite, chalcopyrite to</p>

DIAMOND DRILL LOG

Hole No. 69 - 6

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Logged By M. R. Wolfhard

Property Fish Lake

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Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
600	630	1/2	10/1 mag./cpy 3/1 3/1	20	<p>fine grain to tell.</p> <p>2) clear granular vuggy quartz hairline veinlets with, cpy, mag</p> <p>3) white quartz veinlets with light green alteration selvage, chalcopyrite, pyrite 3/1</p> <p>3) cuts 2).</p> <p>Leuco fine grain quartz - feldspathic rock with 1/2% fracture sulphides with quartz grading to bleached and clay altered, very weakly mineralized feldspar porphyritic quartz diorite.</p> <p>Barren carbonate veinlets cut mineralized quartz veinlets cut mineralized quartz fractures.</p>
630	660	CORE NOT SPLIT			<p>Fresh to bleached feldspar porphyritic quartz diorite. Hble weakly aligned    to core.</p> <p>Trace pyrite in bleached sections, dis. mag only in fresh.</p>

DIAMOND DRILL LOG

Hole No. 69-5

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Logged By M. R. Wolfhard

Property Fish Lake

October, 1972

Approved By \_\_\_\_\_

Footage		% Sulphide	Py/Cpy	Diss. sulphide as % of total	Rock Description and Notes
From	To				
0	174	CASING			
4	293	1-1/2	3/2	50	Green meta diorite, micro diorite, meta sed? Feldspar medium soft, cream colour. Chlorite in clots with small amount of sericite. Min. 1) pyrite, chalcopyrite dis. 2) clear granular vuggy quartz chlorite, sericite veinlets with pyrite, chalcopyrite, trace MoS <sub>2</sub> . 3) quartz chlorite, chalcopyrite, pyrite, hematite veinlets. 2) and 3) may be the same.
93	504	1-2	3/2	30	Felsite to medium crystalline feldspar or feldspar quartz rock - probably all meta sed. All cream coloured. Minor sericite clots. 378 - 386 feldspar - porphyry - soft cream coloured feldspar is soft matrix <u>no sulphides</u> . Min. 1) pyrite, chalcopyrite dis. 2) quartz, hem after mag veinlets. 3) fractures with pyrite, chalcopyrite. 4) clear quartz with minor pyrite, chalcopyrite. 5) quartz with pyrite, chalcopyrite. 6) carbonate with trace sulphides.