LOG NO: 1205 RD.
ACTION:
FILE NO: WESTERN DISTRICT

EXPLORATION
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COMINCO LTD.

ASSESSMENT REPORT

DIAMOND DRILLING

TK 4, TK 6 MINERAL CLAIMS

Record No's 30884, 30886

FIS 2 PLACER CLAIM

Record No 28

FISH LAKE

Clinton Mining Division

Latitude: 51 deg. 28' N Longitude: 123 deg. 37' W

SUB-RECORDER
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VANCOUVER, B.C.

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November 9, 1989

A. M. Pauwels

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,578

COMINCO LTD.

EXPLORATION WESTERN DISTRICT

ASSESSMENT REPORT

DIAMOND DRILLING AT FISH LAKE

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COMINCO LTD.

EXPLORATION WESTERN DISTRICT

ASSESSMENT REPORT

DIAMOND DRILLING AT FISH LAKE

I SUMMARY

Twelve holes (1984 m) were drilled at Fish Lake. The holes were located within the .15 % copper contour of the large copper-gold porphyry deposit defined in 1981. The purpose of the drilling was to provide fresh core for metallurgical testing.
Part of this work is submitted as assessment work on the TK 4 and TK 6 mineral claims and part is submitted as assessment work on the FIS 2 placer claim.

II INTRODUCTION

A. Location

The Fish lake property is located 150 k southwest of Williams lake (See figures 1 and 2). Access is by paved highway west of Williams Lake to Hanceville. From Hanceville an excellent logging road leads suothwest to the Davidson bridge over the Taseko river. From the Davidson bridge an 18 k rough gravel road reaches Fish Lake. Total distance by road is 180 k. The property is situated on the Fraser plateau near the edge of the Coast Mountains. Topography on the claims is gentle and elevation averages 1,450 m above sea level.

B. Previous Exploration

The earliest work on the property dates back to 1935, when prospector Vic Calep located gold bearing outcrops in a small creek 1.5 k north of Fish Lake. Modern exploration started in 1962 when Phelps-Dodge staked the area and did extensive geochemical surveys and drilling. Low grade copper-gold mineralization was found in the valley of Fish creek, 1 k northwest of Fish Lake. Taseko Mines acquired the area in 1967 and drilled the first hole in the centre of the copper-gold mineralization. Later in 1973, Quintana Minerals optioned the property from Taseko Mines and defined several tens of millions of tons of low grade copper-gold mineralization (.25 % Cu, 0.014 oz/t Au) with 6,000 m of drilling.

In 1979 an agreement was reached between Bethlehem Copper Corporation and Taseko Mines. In 1979 and 1980 2,264 m of percussion drilling was completed in 33 holes east of the zone drilled by Quintana. In 1981 Bethlehem and its' successor, Cominco Ltd, completed an additional 8,700 m of drilling in the area previously drilled by Quintana Minerals. This drilling defined a large low grade copper-gold deposit estimated to have geological reserves of 201 million metric tons grading 0.24 % Cu and 0.014 oz/st Au.

III DIAMOND DRILLING (TK 4, TK 6 Mineral claims)

Drilling this year started on august 24 and was completed on september 16, 1989. A total of twelve holes were drilled. The details of location and timing

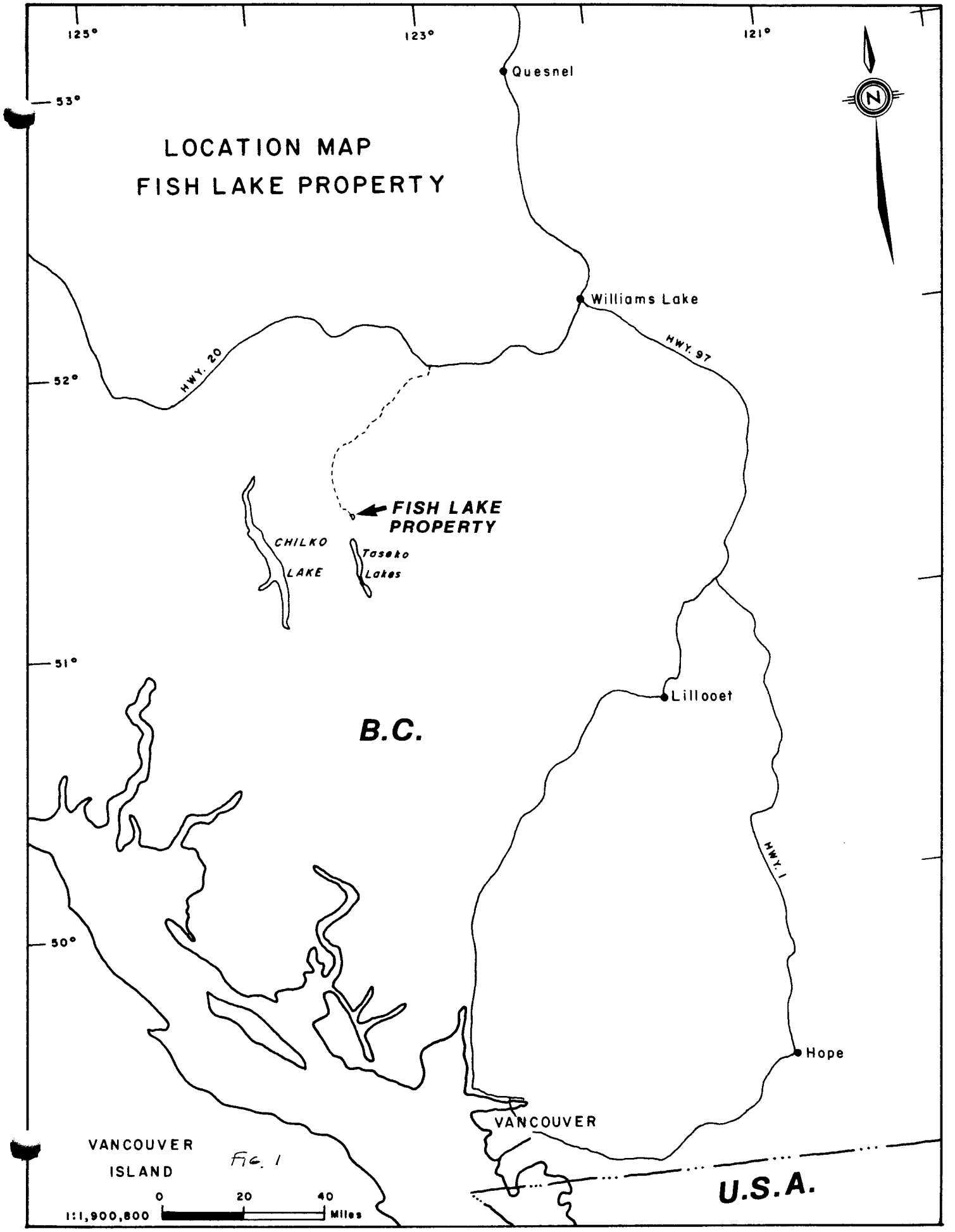
125°
123°
121°
53°
52°
51°
50°
Quesnel
Williams Lake
HWY. 20
HWY. 97
HWY. 1
LOCATION MAP
FISH LAKE PROPERTY
FISH LAKE PROPERTY
CHILKO LAKE
Taseko Lakes
B.C.
Lillooet
Hope
VANCOUVER
VANCOUVER ISLAND
U.S.A.
N
0 20 40
1:1,900,800 Miles

Fig. 1

of the drill holes is given in the table below and the location of the holes is also illustrated on figure 3. Detailed description of the cores and assays for copper and gold are found in appendix I. Expenditures are itemized in appendix II

TABLE I

FISH LAKE DRILL HOLES 1989

Hole No	Claim	East	North	Dates	Depth m
89-1	TK 6	10195	10395	26-27 Aug	158.20
89-2	TK 6	10200	10300	27-29 Aug	161.28
89-3	TK 6	10300	10300	29-31 Aug	176.53
89-4	TK 6	10200	10200	31-2 Sep	158.23
89-5	TK 6	10300	10200	3-4 Sep	170.43
89-6	TK 6	10200	10095	5-6 Sep	152.13
89-7	TK 6	10300	10100	6-7 Sep	152.13
89-8	TK 6	10405	10100	7-8 Sep	179.58
89-9	TK 4	10500	10050	8-10 Sep	188.72
89-10	TK 6/FIS 2	10200	10000	14-16 Sep	152.13
89-11	TK 4	10400	10000	11-12 Sep	176.52
89-12	TK 4/FIS 2	10300	9900	12-14 Sep	158.23
			TOTAL		1,984.11

The twelve holes were drilled vertically and to a common (1300 m) elevation. They vary in length from 150 to 195 m. The drill contractor was Falcon Drilling Ltd. of Prince George. The contractor also provided a trailer camp, that was situated on Fish creek, 5.5 k from the area of drilling. Site clearing also was done by Falcon Drilling Ltd. The drill core size was BGDM, yielding a core diameter of 42 mm. Logistics of the program, core sampling and drafting were done by A. Roberts, technician. Supervision and core logging was by A. M. Pauwels, senior geologist. Cores were split and sampled every 3 m. All the split drill cores are stored on the property (see figure 3) together with cores from previous drilling.

The purpose of the drilling was to obtain a fresh core sample for metallurgical testing. So all holes were collared within the .15 % copper contour of the low grade copper gold deposit, delineated in 1981. Assays for copper and gold were done at the Cominco Exploration and Research Laboratory, 1486 E. Pender street, Vancouver. There also a 1 kilogram split was taken from each sample to obtain an overall bulk sample for metallurgical testing. Inspection of the drill cores and the assay results show copper and gold contents very similar to the grades calculated in 1981. Only hole 89-9, drilled near the eastern edge of the 1981 0.15 % Cu contour, gave overall grades below 0.15 % Cu. This indicates that the 0.15 % copper contour is located somewhat further west than indicated in 1981.

IV OVERBURDEN DRILLING (FIS 2 Placer claim)

Two of the diamond drill holes (89-10 and 89-12) were also located on FIS 2 Placer claim. These holes drilled trough overburden over a length of 49 and 40 meters respectively. During overburden drilling drill cuttings were inspected and hand panned every 5 m. No visible gold was seen in any of the samples. It was possible to core parts of the overburden in hole 10 and 12 (see

Appendix I). Assays of the overburden core also show extremely low contents of gold. Low copper and gold values were found only in he top of the weathered bedrock.

V CONCLUSIONS

Diamond drilling in twelve holes gathered fresh cores for metallurgical sampling. Copper and gold grades were found to be as expected from previous drilling. Overburden drilling on the FIS 2 Placer claim failed to indicate any gold concentrations.

Reported by

Andre M. Pauwels
Senior Geologist

Approved for Release

W. J. Wolfe
Manager, Exploration
Western Canada.

APPENDIX I

DRILL LOGS

All lengths are in metres
Gold assays (Fire assays) in grams per metric ton
Copper assays in percent

Mineral tables: The number to the right indicates the average grain size in mm, the number to the left gives the visually estimated volume percent.

$$\text{Recovery} = \frac{\text{Length of core between blocks}}{\text{Length of interval between blocks}} * 100$$

$$\text{RQD} = \frac{\text{Total length of core pieces over 10 cm}}{\text{Interval considered}} * 100$$

Abbreviations

q, qz	quartz
s, se, seric	sericite
py, pyr	pyrite
cpy	chalcopyrite
bor	bornite
hem	hematite
mag	magnetite
mo	molybdenite
chlor	chlorite
biot	biotite
carb	calcite
feld	feldspar
epid	epidote
gyps	gypsum
sul	sulphides

DRILL HOLE RECORD

FISH LAKE BC.

Claim: TK-6
Dates:26-27 August 1989
Contractor: Falcon Drilling Ltd.

Coordinates:10395 N 10195 E
Length: 158.2 m
Azimuth/Dip: -90
Core Size: BGM
Elevation:

HOLE: 89-1
Logged by: AMP
Date:28 August 1989
Dip tests, RQD and recoveries on last page.

Objective: Collect samples for metallurgical testing

From To (m)	Description

0 - 14.94 Overburden
Overburden was cored from 4.57 m. on.
4.57 -7.35 : Boulder till, angular and sub-angular fragments up to 10 cm in a finer grained matrix with some clay. Fragments are heterolithic, many are basalt.
7.35 - 9.15 : Grey clay.
9.15- 10 26 : Mostly washed away. A little silt recovered.
10.26 - 14.94 : Fresh fragments of diorite, some mineralised.

14.94 - 17.13 Brown weathered diorite all in small fragments.

Sample Id	From To	Cu g/t	Au g/t	Ag g/t			
68751	14.94-17.13	0.17	0.329				

17.13 - 34.50 Diorite .
Fine to medium grained. White (1-2 mm) plagioclase phenocrystals, green hornblende laths. The whole has a mottled appearance due to alteration (secondary chlorite) and also perhaps due to variations in grain size or an agglomerate texture. Alteration consists of pervasive chloritization and sericitization, disseminated pyrite and chalcopyrite and vein alteration . Veins consist of quartz with chlorite rims and granular pyrite (.5 mm); hairline fractures with chlorite/pyrite, with magnetite\chalcopyrite. Veins are less than 5 % of the core mass. In the very fine grained parts are cm sized dark brown blotches these could be patches of biotite. In the last meters of the interval there are a few mm-thick seams with clay and also some pale green sericitized patches similar to the interval below.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	30 1	20			none	50	tr	30	none	none
Mineral	cpy	pyr	bor	hem	mag	mo				
% mm	.8	2	none	tr	tr					

Sample	Id	From To	Cu %	Au g/t	Ag g/t			
68752		17.13-18.00	0.17	0.154				
68753		18.00-21.00	0.20	0.370				
54		21.00-24.00	0.20	0.357				
55		24.00-27.00	0.18	0.324				
56		27.00-30.00	0.18	0.357				
57		30.00-33.00	0.15	0.225				
58		33.00-36.00	0.11	0.274				

34.5 - 47.15 Diorite
Pale green medium grained. Pale green, altered hornblende in paler

green matrix. Pale green colour is due to pervasive sericitization. several white quartz-carbonate-pyrite veins up to 1 cm wide main direction is at 45 deg. to the core axis. Also seams and patches of clay (light grey) alteration. More pyrite less chalcopyrite than in previous interval. Becomes progressively more bleached with depth and has small dykes of pale grey, medium grained porphyry over 10 to 20 cm.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	30	?			none	20	none	45	2	none
Mineral	cpy	pyr	bor	hem	mag	mo				
% mm	.5 .5	3 .5	none		none	none				

Sample Id	From To	Cu %	Au g/t	Ag g/t
68759	36 - 39	0.18	0.269	
60	39 - 42	0.17	0.343	
61	42 - 45	0.14	0.299	
62	45 - 48	0.19	0.324	

47.14 - 48.48 Altered medium to fine grained diorite dyke.
Pale grey with chalky feldspar phenocrystals. Probably mostly sericite. A few thin hairline veins with pyrite. Very little chalcopyrite.

48.48 - 52.73 Altered fine grained diorite or andesite. Most of the texture is caused by alteration. It consists of a pale grey, fine grained matrix with blotches of very fine grained pyrite. Occasional white chalky ghosts of feldspars (up to 1 mm) are present. Numerous thin (0.5 mm) seams of pyrite, veinlets of carbonate and a few thicker quartz-carbonate pyrite veins. Traces of very fine chalcopyrite.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	10 1	3						80	2	none
Mineral	cpy	pyr	bor	hem	mag	mo				
% mm	tr	5 .3	none		none	none				

Sample Id	From To	Cu %	Au g/t	Ag g/t
68763	48 - 51	0.20	0.197	

52.73 - 55.95 Quartz-Feldspar Porphyry
Altered, medium to coarse grained. Chalky white feldspars in a quartz rich matrix. A few .5 cm to 2 cm wide quartz veins with central pyrite and chalcopyrite, several 1 to 10 mm carbonate. Pervasive sericitization, no mafic minerals. Top contact at 45 deg , bottom at 30 deg. Bottom contact is a fault gauge with some clay alteration

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	50	45						50	3	
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	tr	2								

Sample Id	From To	Cu %	Au g/t	Ag g/t
68764	51 - 54	0.13	0.324	
65	54 - 57	0.19	0.269	

55.95 - 60 Grey to pale green sericitized fine grained diorite or andesite. Fine grained porphyritic texture of diorite is still recognizable. Finely disseminated pyrite and chalcopyrite. Rock is entirely composed of sericite and quartz. Numerous thin (.5 mm) veins with carbonate a few with quartz and pyrite.

60.00 - 75.40 Quartz Feldspar Porphyry
Medium to coarse grained, 2 to 3 mm feldspar phenocrystals, green sericitized or chloritized hornblende ghosts, rare quartz pheno's, matrix is quartz rich. Very fine disseminated pyrite and chalcopyrite, sulphides cluster in the mafic parts. The top 4 metres and the bottom 2 metres have many fault gauges with some clay alteration and contain several fragments of altered diorite (contact breccia). Veins are 5 % of interval and larger than in diorite above. These vein are 1 to 10 mm wide and consist of quartz with granular pyrite.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	(40)	30		qz-ser	none	5	none	55		
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.5 .3	4 .3	none	none	none	none		qz-py		

Sample Id	From To	Cu %	Au g/t	Ag g/t
68766	57-60	0.21	0.329	
67	60-63	0.25	0.389	
68	63-66	0.12	0.987	
69	66-69	0.17	0.197	
70	69-72	0.17	0.208	
71	72-75	0.17	0.241	

75.40 - 89.00 Andesite or very fine grained diorite.
Pale green, variable grain size but equigranular, mostly less than 1 mm. Grains are altered feldspars and chloritized or sericitized mafic minerals. Veins are from latest to oldest: thin carbonate, quartz-pyrite, quartz with disseminated pyrite and rare chalcopyrite. Sulphides are disseminated preferentially in the chloritic clusterss (mostly pyrite some chalcopyrite) all very fine grained.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	(45)	5	40		none	40	none	45	5	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.5 .3	4 .3	none	none	none	none		qz-c-s	carb	qz-s

Sample Id	From To	Cu %	Au g/t	Ag g/t
68772	75-78	0.24	0.302	
73	78-81	0.18	0.219	
74	81-84	0.17	0.252	
75	84-87	0.26	0.370	
76	87-90	0.20	0.302	

89 - 91.80 Very fine grained sediments or tuffs, green to yellowish. Matrix is light coloured with numerous blotches of chlorite, less and less sericitization with depth. Boundary with above interval is gradual and the main difference is the high chlorite content, also the grain size is finer. Pyrite is disseminated mostly associated with chlorite. Only traces of chalcopyrite. Yellowish matrix is probably caused by fine grained epidote. Veins are late thin carbonate a few thin quartz and a few larger quartz (with vugs). Vague bedding at 80 deg to the core axis.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm				100	tr	45		45	5	
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	tr	5 .5	none	none	none	none		carb	qz	

Sample Id	From To	Cu %	Au g/t	Ag g/t
68777	90-93	0.14	0.203	

91.80 - 111.42 Diorite
Medium to fine grained, pervasively altered. Green, ghosts of feldspar and hornblende (?). Alteration is chloritization and sericitization. Sericite is grey to pale green. Many small clusters of magnetite or pyrite and magnetite or pyrite only. Many small qz-sulphide veinlets, a few magnetite veinlets. A few stringers with chalcopyrite at 106. Gypsum veining starts at 106.9 m.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		1			none	45	none	50	1	1
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	tr	3 .5	none		2 .5	none		qz		

Sample Id	From To	Cu %	Au g/t	Ag g/t
68778	93-96	0.26	1.275	
79	96-99	0.23	0.296	
80	99-102	0.22	0.409	
81	102-105	0.27	0.311	
82	105-108	0.31	0.335	
83	108-111	0.10	0.219	

111.42 -127.8 Quartz Feldspar Porphyry
Coarse grained, altered. pale green, sericitized feldspar phenocrystals, green chloritized hornblende phenocrystals, and a few quartz eyes in a quartz rich matrix. Gypsum veins, a few carbonate veins, a few quartz-sericite-pyrite veins.. Overall 3 % veining. Sparsely disseminates chalcopyrite and pyrite, most pyrite is in the veins. Rock is intensely bleached over the last 3 m near Pm dyke.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	30	5	15	45		(15)			tr	1
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.2	.5	none	none	none	none		carb	q-se-s	gyp

Sample Id	From To	Cu %	Au g/t	Ag g/t
68784	111-114	0.10	1.125	
85	114-117	0.08	0.159	
86	117-120	0.11	0.173	
87	120-123	0.14	0.220	
88	123-126	0.11	0.173	

127.8 - 133.5 Post Mineral Dyke

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68789	126-129	0.05	0.187				
90	129-132	<0.01	0.069				

133.5 - 140.7 Quartz Feldspar Porphyry
as above 127.8, also bleached in the top 3 m near contact with PM dyke. Molybdenite with pyrite, chalcopyrite and quartz in 1 cm vein at 133.9 m.

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68791	132-135	0.05	0.129				
92	135-138	0.14	0.197				
93	138-141	0.16	0.302				

140.7 - 158.2 Diorite
Pale green to grey, fine grained, sericitized. Small feldspar pheno's, small clusters of chlorite/sericite. Gypsum veins, sericite stingers, thin quartz veins and quartz-sericite-pyrite veins. Finely disseminated pyrite and chalcopyrite.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	25 1	4		65		tr			1	2
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.5	1	none			tr				

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68794	141-144	0.30	0.521				
95	144-147	0.19	0.274				
96	147-150	0.16	0.389				
97	150-153	0.17	0.318				
98	153-156	0.21	0.425				
99	156-158.2	0.15	0.296				

158.2 END OF HOLE

RECOVERIES

Blocks

from	to	length	%
14.94	16.46	0.80	53
16.46	17.99	1.40	92
17.99	19.82	0.93	51
19.82	21.34	1.40	92
21.34	23.17	1.16	63
23.17	24.09	0.80	87
24.09	27.13	1.90	63
27.13	30.18	2.10	69
30.18	33.23	2.80	92
33.23	36.28	2.60	85
36.28	39.33	2.80	92
39.33	42.38	1.80	59
42.38	45.43	2.80	92
45.43	48.48	2.90	95
48.48	51.52	2.90	95
51.52	54.57	2.90	95
54.57	57.62	2.80	92
57.62	60.67	2.80	92
60.67	63.72	2.30	75
63.72	66.77	2.80	92
66.77	69.82	2.70	89
69.82	72.87	2.80	92
72.87	75.91	2.30	76
75.91	78.96	2.90	95
78.96	82.01	3.00	98
82.01	85.06	3.00	98
85.06	88.11	2.90	95
88.11	91.16	2.60	85
91.16	94.21	3.00	98
94.21	97.26	3.00	98
97.26	100.30	3.00	99
100.30	103.35	3.00	98
103.35	106.40	3.00	98
106.40	109.45	3.00	98
109.45	112.50	3.00	98
112.50	115.50	3.00	100
115.50	118.60	3.00	97
118.60	121.60	3.00	100
121.60	124.70	3.00	97
124.70	127.70	3.00	100
127.70	130.80	3.10	100
130.80	133.80	3.00	100
133.80	136.90	3.00	97
136.90	139.90	3.00	100
139.90	143.00	3.10	100
143.00	146.00	3.00	100
146.00	149.10	3.10	100
149.09	152.10	3.00	100
152.10	155.20	3.10	100
155.20	158.20	3.00	100

Overall Recovery

from	to	length	%
14.94	158.20	131.29	92

Casing pulled

No dip test

RQD

from	to	shorts	%
14.94	18.00	0.00	0
18.00	21.00	0.00	0
21.00	24.00	0.12	4
24.00	27.00	0.00	0
27.00	30.00	0.16	5
30.00	33.00	0.00	0
33.00	36.00	0.20	7
36.00	39.00	0.00	0
39.00	42.00	0.10	3
42.00	45.00	0.48	16
45.00	48.00	1.30	43
48.00	51.00	0.89	30
51.00	54.00	0.50	17
54.00	57.00	0.50	17
57.00	60.00	0.57	19
60.00	63.00	0.00	0
63.00	66.00	0.38	13
66.00	69.00	0.64	21
69.00	72.00	0.20	7
72.00	75.00	0.27	9
75.00	78.00	1.32	44
78.00	81.00	1.45	48
81.00	84.00	1.93	64
84.00	87.00	0.88	29
87.00	90.00	1.27	42
90.00	93.00	0.00	0
93.00	96.00	0.28	9
96.00	99.00	0.13	4
99.00	102.00	0.24	8
102.00	105.00	1.20	40
105.00	108.00	2.20	73
108.00	111.00	2.11	70
111.00	114.00	1.80	60
114.00	117.00	1.26	42
117.00	120.00	2.56	85
120.00	123.00	1.96	65
123.00	126.00	2.20	73
126.00	129.00	1.90	63
129.00	132.00	1.60	53
132.00	135.00	1.10	37
135.00	138.00	1.58	53
138.00	141.00	2.44	81
141.00	144.00	2.70	90
144.00	147.00	1.10	37
147.00	150.00	1.57	52
150.00	153.00	1.87	62
153.00	156.00	0.80	27
156.00	158.20	1.20	55

Overall RQD

from	to	shorts	%
14.94	158.20	46.96	33

DRILL HOLE RECORD

FISH LAKE BC.

Claim:TK-6
Dates:28-29 August 1989
Contractor: Falcon Drilling ltd.

Coordinates:10200 E 10300 N
Length:161.28 m
Azimuth/Dip: -90 deg.
Core Size: BGM
Elevation:

HOLE: 88 - 2
Logged by: AMP
Date: Aug 30, 1989
Dip tests, RQD and recoveries on last page.

Objective: Collect core samples for metallurgical testing.

From To (m)	Description

0 - 15.5 Overburden
Overburden cored from 10.67 on
All boulder clay. Approximately 3 m recovered, remainder is probably more silty.

15.50 -27.78 Medium to fine grained Diorite or Andesite, altered. Very weathered to 21m., rusty brown and a few malachite stains. Disseminated chalcopyrite in small (<1mm) clusters associated with chloritized mafics. Several, cm wide, quartz veins with clots of chalcopyrite. Grainsize of feldspars is variable from 2mm to .5 mm and averages 1 mm.
Slight bleaching around thin quartz veinlets. Coarse pyrite over 10 cm in large subparallel quartz veins at 27.3 m.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	80	4				15	tr	?		none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1 .3	.5	none	none	none	none		qz-ser	qz-ch	qz-py

Sample Id	From To	Cu %	Au g/t	Ag g/t
68800	15.50 - 18.00	0.14	0.241	
01	18.00 - 21.00	0.12	0.269	
02	21.00 - 24.00	0.19	0.439	
03	24.00 - 17.78	0.10	0.543	

27.78 - 33.43 Post mineral dyke
Bleached Coarse grained diorite
Large white Feldspar pheno,s in white matrix.

33.43 - 40.20 Diorite
Medium to fine grained, bleached over most of the section. Feldspar pheno's are white. 1-2 mm, in a white matrix. Some section are less bleached and have some chlorite (matrix and small clusters). Disseminated hematite and rare chalcopyrite are associated with the mafics. Large (cm) and small quartz veins with clusters of fine grained pyrite and rare chalcopyrite.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	40 1.5	4		60	none	15		45		none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.6 .3	2 .5	none	2 .5	none	none		qz-ser	qz-sul	

Sample Id	From To	Cu %	Au g/t	Ag g/t
68804	33.43 - 37.00	0.18	0.357	
05	37.00 - 40.00	0.13	0.244	

40.20 - 43.50 Andesite
Very fine grained dark green. Biotitized and chloritized. Clusters of fine grained biotite, small feldspar phenocrystals, finely disseminated chalcopyrite, rare bornite. Some bleaching around thin qz-sericite veinlets, pyrite tends to be assciated with bleaching. A few quartz veins with rare pyrite and chalcopyrite.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	50 .3	5			none	10	20	10	none	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.3 .3	2 .3	tr	tr				qz-ser	qz-sul	

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68806	40 -43	0.09	0.208				

43.50 - 47.00 Diorite
Totally bleached, similar to 33.43 - 43.50 m.

47.00 - 61.20 Andesite
Fine grained green to dark green.
Variable grainsize over short distances, reminiscent of andesite agglomerates, some short sections are a little coarser grained and have a more equigranular, dioritic texture. Chlorite and/or biotite are very fine grained and occur in small, mm-sized, clusters. Numerous thin quartz veins. Short diorite dyke, pale green sericitized from 55 to 55.80 m. Very fine disseminateed chalcopyrite and rare bornite. Small pheno's of feldspar. Vein (10 cm) with quartz, carbonate, pyrite and molybdenite at 52 m.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	35 .5	3			none	40	5	13	tr	
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1	3	tr	tr		tr		qz-ser	q-c-su	

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68807	43-46	0.21	0.357				
08	46-49	0.20	0.389				
09	49-52	0.48	1.742				
10	52-55	0.15	0.351				
11	55-58	0.18	0.384				
12	58-61	0.21	0.631				

61.20 - 62.30 Post Mineral dyke
As above but not bleached, pale green matrix. A few small hornblende phenocrysts, chloritized.

62.3 - 84.15 Diorite or Andesite. Pale green, altered fine grained.
Small feldspar phenocrystals in pale green matrix. Veins and clots of chlorite, partially sericitized. small patches of finely disseminated pyrite and less chalcopyrite. Later, thin, quartz-sericite veinlets. A few large white, opaque quartz-pyrite veins.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	40 1	5			none	45	none	(50)	tr	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1 .5	4 .5		none	none	none		qz-chl	qz ser	q-sul

Sample Id	From To	Cu %	Au g/t	Ag g/t
68813	61-64	0.11	0.208	
14	64-67	0.13	0.631	
15	67-70	0.15	0.316	
16	70-73	0.22	0.518	
17	73-76	0.13	0.335	
18	76-79	0.26	0.494	
19	79-82	0.17	0.439	
20	82-84.15	0.15	0.357	

84.15 - 87.80 Post mineral Dyke
Pale geen, porphyrytic, large feldspar pheno's, small chloritized hornblende pheno's. No sulphides

87.80 - 90.50 Fine grained Diorite
Largely sericitized, pale green and light colored, small feldspar phenocrystals in a pale grey colored matrix. Small quartz veins with chalcopyrite and pyrite.

90.50 - 103.80 Quartz Feldspar Prophyry
Coarse grained feldspar pheno's in a quartzo-feldspatic matrix, rare quartz pheno,s. Numerous thin, clay altered seams and short fault gauges. A few short diorite inclusions. Sparse sulphides,very finely disseminated, both pyrite and chalcopyrite. Also sulphides, mostly pyrite in quartz-carbonate and quartz veins,

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	25 2	4		70		tr			tr	none
Mineral	cpy	pyr	bor	hem	mag	mo	clay	veins	veins	veins
% mm	.6 .2	.4 .2	none	none	none	none	5	q-ca-s	q-sul	

Sample Id	From To	Cu %	Au g/t	Ag g/t
68821	87.80-91.00	0.21	0.480	
22	91-94	0.16	0.315	
23	94-97	0.16	0.425	
24	97-100	0.15	0.686	
25	100-103	0.23	0.425	

103.50 - 106 Chalky white, very fine grained andesite or sediments, inclusion in above. Rare disseminated chalcopyrite and pyrite, many thin quartz veins.

106 - 120.7 Quartz Feldspar Prophyry
as above. From 117.5 to 120.70 m., greyish gauge and grey clay seams

Sample Id	From To	Cu %	Au g/t	Ag g/t
68826	103-106	0.28	0.631	
27	106-109	0.28	0.603	

Sample Id	From To	Cu %	Au g/t	Ag g/t			
28	109-112	0.17	0.338				
29	112-115	0.26	0.672				
30	115-118	0.20	0.466				
31	118-120.70	0.18	0.461				

120.70 - 124.2 Post Mineral Dyke
Pale white coloures, clay altered. Large white feldspar ghost crystals in fine matrix. No sulphides.

124.2 - 161.28 Diorite or Andesite
Fine grained pale grey ,all bleached and sericitized. Disseminated hematite and very fine pyrite and chalcopyrite. Small quartz veins, with disseminated pyrite and chalcopyrite, hematite. Most chalcopyrite is in thin quartz veins. Most of the interval has an equigranular, intrusive relic texture.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	30 1	6	none	63	none	tr	none	?		
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.3	.5	none	2	none	tr		qz-sul	ser	

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68832	124.2-127.00	0.18	0.379				
33	127-130	0.12	0.233				
34	130-133	0.07	0.159				
35	133-136	0.22	0.428				
36	136-139	0.16	0.357				
37	139-142	0.39	1.070				
38	142-145	0.26	1.042				
39	145-148	0.17	0.379				
40	148-151	0.17	0.494				
41	151-154	0.21	0.645				
42	154-157	0.20	0.389				
43	157-161.28	0.14	0.453				

161.28 End of Hole

RECOVERIES

Blocks from	to	length	%
14.94	17.37	1.50	62
17.37	17.99	0.35	56
17.99	20.42	1.90	78
20.42	22.56	1.80	84
22.56	24.09	1.50	98
24.09	27.13	2.60	86
27.13	30.12	2.99	100
30.12	33.23	3.00	96
33.23	36.28	3.05	100
36.28	39.33	3.05	100
39.33	42.38	3.00	98
42.38	45.43	2.80	92
45.43	48.48	2.90	95
48.48	51.52	3.00	99
51.52	54.57	3.00	98
54.57	57.62	3.00	98
57.62	60.67	3.04	100
60.67	63.10	2.20	91
63.10	65.24	2.14	100
65.24	66.77	1.40	92
66.77	69.82	2.80	92
69.82	72.87	3.05	100
72.87	75.91	3.04	100
75.91	78.96	3.05	100
78.96	82.01	3.05	100
82.01	85.06	2.80	92
85.06	88.11	2.80	92
88.11	91.16	2.46	81
91.16	94.21	2.20	72
94.21	97.26	2.90	95
97.26	100.30	2.70	89
100.30	103.35	2.55	84
103.35	106.40	2.50	82
106.40	109.45	2.91	95
109.45	112.50	2.80	92
112.50	115.55	2.76	90
115.55	118.60	3.00	98
118.60	121.65	2.89	95
121.65	124.70	2.84	93
124.70	127.74	2.88	95
127.74	130.79	3.01	99
130.79	133.84	3.20	105
133.84	136.28	2.15	88
136.28	138.41	1.87	88
138.41	139.44	0.95	92
139.44	142.29	2.85	100
142.29	145.73	2.88	84
145.73	148.78	2.68	88
148.78	151.83	2.95	97
151.83	154.57	2.66	97
154.57	156.70	2.23	105
156.70	158.00	1.49	115
158.00	161.28	2.93	89

Overall Recovery

14.94	161.28	136.05	93

RQD

from	to	shorts	%
16.50	18.00	0.10	7
18.00	21.00	0.81	27
21.00	24.00	1.46	49
24.00	27.78	0.84	22
27.78	30.00	1.67	75
30.00	33.43	1.62	47
33.43	37.00	1.59	45
37.00	40.00	1.65	55
40.00	43.00	0.00	0
43.00	46.00	0.10	3
46.00	49.00	0.77	26
49.00	52.00	0.00	0
52.00	55.00	0.11	4
55.00	58.00	0.40	13
58.00	61.00	0.20	7
61.00	64.00	0.64	21
64.00	67.00	1.88	63
67.00	70.00	0.75	25
70.00	73.00	1.55	52
73.00	76.00	1.68	56
76.00	79.00	1.20	40
79.00	82.15	1.32	42
82.15	87.80	1.93	34
87.80	91.00	0.27	8
91.00	94.00	0.00	0
94.00	97.00	0.30	10
97.00	100.00	0.39	13
100.00	103.00	0.12	4
103.00	107.00	0.10	3
107.00	109.00	1.58	79
109.00	112.00	0.70	23
112.00	115.00	0.57	19
115.00	118.00	1.70	57
118.00	120.70	1.10	41
120.70	124.00	1.30	39
124.00	127.00	0.00	0
127.00	130.00	0.15	5
130.00	133.00	0.18	6
133.00	136.00	0.00	0
136.00	139.00	0.00	0
139.00	142.00	0.23	8
142.00	145.00	0.76	25
145.00	148.00	1.05	35
148.00	151.00	1.48	49
151.00	154.00	0.82	27
154.00	157.00	0.62	21
157.00	161.28	1.97	46

Overall RQD

14.94	161.28	37.66	26

Casing pulled

Sperry Sun test at 160 m 89.5 degrees.

DRILL HOLE RECORD

FISH LAKE BC.

Claim:TK 6
Dates:29-31 August 1989
Contractor: Falcon Drilling ltd.

Coordinates:10300N 10300E
Length: 176.53 m
Azimuth/Dip: -90 deg.
Core Size: BGM
Elevation:

HOLE: 89 - 3
Logged by: A. M. Pauwels
Date: 1 September 1989
Dip tests, RQD and recoveries on last page.

Objective: Collect core samples for metallurgical testing.

From To (m)	Description

0 - 12.63 Overburden, no overburden cored, casing to 13.71.

12.63 - 30.10 Diorite
Fine grained, dark green over most of the length, some short, bleached sections. Small feldspar phenocrystals (average 1 mm) in a fine grained matrix, composed of chlorite, quartz, feldspar. A few vague, chloritized ghosts of hornblende (< 1 mm). Dark coloured sections have patches of very fine grained biotite and/or chlorite. Numerous veins. The latest are thin (max 1mm) carbonate stringers, then cm-wide pyrite-quartz-sericite veins, then clear quartz-pyrite-chalcopyrite. The last type of veins occurs only in the bleached sections. Chalcopyrite and pyrite are disseminated in small (.3 mm on average) clusters. Most abundant chalcopyrite in the dark green sections. Rare specs of bornite. Surficial weathering to 17.19 m.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	35 1	5		30	none	15	5	5	2	
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1 .3	2 .5	tr	tr		none		carb	q-se-s	q-sul

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68844	13.72-17.19	0.17	0.261				
45	17.19-20	0.26	0.562				
46	20-23						
47	23-26						
48	26-29						

30.10 - 70.00 Diorite/ Andesite
Fine to medium grained, includes short, very fine grained sections, bleached. Variation of grain size over short sections suggests an andesite agglomerate. Transitional from above section. Bleaching is superimposed on chlorite/biotite alteration as above, also less carbonate stringers. White chalky feldspar phenocrystals in white matrix, disseminated hematite. Many opaque, .5 cm dolomite veins, clear quartz-chalcopyrite/pyrite veinlets, thin sericite stringers. Chalcopyrite also in small clusters as in section above. Bleaching is sericite and possibly clay. Short PM dyke from 48.50 to 46.10 m.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	40 1	4		50	none	2			tr	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.5	1		2 .5				qz-sul	qz	q-s-s

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68849	29-32						
50	32-35	0.20	0.389				
51	35-38	0.19	1.015				
52	38-41	0.23	0.324				
53	41-44	0.16	0.357				
54	44-47	0.22	0.494				
55	47-50	0.13	0.324				
56	50-53	0.19	0.274				
57	53-56	0.23	0.387				
58	56-59	0.08	0.225				
59	59-62	0.21	0.507				
60	62-65	0.33	1.646				
61	65-68	0.22	0.439				

70.00 - 74.50 Andesite
Fine gained, dark green, transitional to above section, short sections with fine grained, intrusive texture. Partially bleached around quartz veins. Probably chloritized and possibly biotitized andesite. Thin carbonate stringers .Also granular pyrite in quartz veins with bleached rims. Also a few clear quartz veins, with pyrite and chalcopyrite as in above section, but less frequently.seen.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	15 .3	3			none	50	?	20	tr	
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.3	1						carb	qz-s-s	qz-sul

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68862	68-71	0.23	0.379				
63	71-74	0.27	0.406				
64	74-77	0.21	1.001				

74.50 - 94.10 Andesite
Fine to very fine grained, almost totally bleached to a chalky white colour , very similar to bleached section above 70 m but finer grained.
Includes short dark green sections as described above.

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68865	77-80	0.18	0.549				
66	80-83	0.23	0.488				
67	83-86	0.28	0.699				
68	86-89	0.33	0.782				
69	89-92	0.25	0.603				
70	92-95	0.21	0.795				

94.10 - 103.2 Andesite
Green, includes smaller bleached sections. Very fine grained, some parts have a pale green matrix probably due to fine grained epidote. also patches and small circular blotches of secondary chlorite. Pyrite and chalcopyrite are sparse and mainly in veinlets, but also as very fine grained disseminations.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		3		95	tr	(35)	tr		tr	
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.3	2	none	none	none			carb	qz-sul	chl

Sample Id	From	To	Cu %	Au g/t	Ag g/t
68871	95	98	0.24	0.453	
72	98	101	0.29	0.603	
73	101	10	0.47	0.946	

103.2 - 123.90 Sediments or fine grained Tuff
Bleached, white to yellowish, very fine grained. Some remnants of black argillite visible. Very altered. 10 % veinlets, mainly quartz with sulphides, also sulphide-chlorite veinlets. 20 to 40 % grey or green spots (1 mm) sometimes coalescing in larger blotches, probably secondary chlorite, in part or totally sericitized. Sulphides are very finely disseminated mostly associated with ex-chlorite spots.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		8		80	tr	15				
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1	2	tr	1		none		qz-sul	ch-sul	

Sample Id	From	To	Cu %	Au g/t	Ag g/t
68874	104	107	0.25	0.484	
75	107	110	0.34	0.672	
76	110	113	0.31	1.454	
77	113	116	0.39	0.686	
78	116	119	0.26	0.768	
79	119	122	0.32	0.686	

123.9 - 127.7 Quartz-Diorite
Medium grained, altered, finer grained near the edges. Feldspars in quartz rich matrix, chloritized mafic. Pale green, sericitized, abundant very fine grained disseminated pyrite some chalcopyrite. Molybdenite, pyrite in qz vein at 124. Several thin quartz veins with pyrite and chalcopyrite

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm										
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1 .3	4 .5				tr				

Sample Id	From	To	Cu %	Au g/t	Ag g/t
68880	122	125	0.36	0.795	
81	125	128	0.42	1.262	

127.7 - 133 Sediments or Tuff
Very fine grained, light coloured, very altered, spots and veins of

chlorite, quartz veins much like section above 123. Initial Chloritization almost completely superimposed by bleaching. Short PM dyke from 129.8 to 130.1 m.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		5		85		5		?	tr	
Mineral	cpy	pyr	bor	hem	mag	mo	veins	veins	veins	veins
% mm	1	1		3	tr		hem	qz-sul	q-cl-s	q

Sample Id	From To	Cu %	Au g/t	Ag g/t
68882	128-131	0.39	0.686	
83	131-134	0.31	0.521	

133 - 142 Quartz Feldspar Porphyry
Medium to coarse grained, grey coloured. White, 1 to 3 mm, feldspar phenocrystals in a quartz rich matrix, rare quartz eyes. Feldspars are sericitized and so are mafic pheno,s, some remaining chlorite. Few sulphides, some sulphides in thin veins, irregular finely disseminated pyrite and rare chalcopyrite. Narrow fault gauges with clay common, these are probably the poorly recovered parts of the rock

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	20 2	3		75		tr			tr	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.3	1	none	tr		none				

Sample Id	From To	Cu %	Au g/t	Ag g/t
68884	134-137	0.36	0.768	
85	137-140	0.25	0.686	
86	140-143	0.19	0.382	

142 - 158.20 Diorite
Coarse grained, porphyritic. Texture is much like above but less quartz rich and very few disseminated sulphides. Greenish colour. Contact is a brecciated zone with small dykes as above to 148.5 m. Feldspars are subrounded and 2 to 4 mm in pale green sericitic matrix. Crosscutting quartz-pyrite-sericite veins, thin carbonate stringers.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	44 3			55	none	(30)	none	?	tr	
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	tr	1				none		q-se-s	carb	

Sample Id	From To	Cu %	Au g/t	Ag g/t
68887	143-146	0.14	0.256	
88	146-149	0.17	0.302	
89	149-152	0.26	0.708	

158.2 - 176.53 Andesite
Fine grained green. Chlorite spots over 20 cm near contact with above

porphyry. Includes some pale green, chlorite mottled (patches and veinlets) sections that are very fine grained and could be sediments or tuff. Rare thin carbonate stringers. A few wide (4 cm) quartz-pyrite sericite veins. Few disseminated sulphides, little chalcopyrite. Gypsum line at 165.3 m, below that 3 % gypsum veins.

Mineral	feld.	quartz	mafics	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	40	2			tr	50				3
Mineral	cpy	pyr	bor	hem	mag	veins		veins	veins	veins
% mm	.2	.5				chlor-qz-py		gyp	qz-sul	

Sample Id	From To	Cu %	Au g/t	Ag g/t
68890	152-155	0.17	0.296	
91	155-158	0.25	0.369	
92	158-161	0.30	0.576	
93	161-164	0.18	0.357	
94	164-167	0.22	0.480	
95	167-170	0.17	0.280	
96	170-173	0.28	0.521	
97	170-176.53	0.21	1.042	

176.53 END OF HOLE

RECOVERIES

Blocks from	to	length	%
12.63	14.99	1.97	83
14.94	17.99	2.15	70
17.99	21.04	2.22	73
21.04	24.09	2.30	75
24.09	27.13	2.15	71
27.13	30.18	2.44	80
30.18	33.23	2.99	98
33.23	36.28	2.58	85
36.28	39.33	2.59	85
39.33	42.38	2.22	73
42.38	45.42	2.62	86
45.43	48.48	2.97	97
48.48	51.52	2.88	95
51.52	54.57	3.04	100
54.57	57.62	2.92	96
57.62	60.67	2.85	93
60.67	63.72	2.85	93
63.72	66.77	3.25	107
66.77	69.82	2.88	94
69.82	72.87	2.60	85
72.87	75.91	2.89	95
75.91	78.96	2.80	92
78.96	82.01	2.65	87
82.01	85.06	2.89	95
85.06	88.11	2.75	90
88.11	90.54	2.34	96
90.54	92.68	2.27	106
92.68	94.21	1.45	95
94.21	97.26	2.24	73
97.26	100.30	1.95	64
100.30	103.35	2.03	67
103.35	106.40	2.16	71
106.40	109.45	2.44	80
109.45	112.50	2.75	90
112.50	115.55	1.07	35
115.55	118.60	2.72	89
118.60	121.65	2.40	79
121.65	124.70	2.80	92

RQD

from	to	shorts	%
12.63	14.99	.71	30
14.94	17.99	.10	3
17.99	21.04	.00	0
21.04	24.09	.00	0
24.09	27.13	.00	0
27.13	30.18	.14	5
30.18	33.23	1.76	58
33.23	36.28	1.04	34
36.28	39.33	1.02	33
39.33	42.38	0.53	17
42.38	45.42	0.54	18
45.42	48.48	2.36	77
48.48	51.52	2.39	79
51.52	54.57	1.64	54
54.57	57.62	1.94	64
57.62	60.67	2.30	75
60.67	63.72	2.07	68
63.72	66.77	1.35	44
66.77	69.82	2.18	71
69.82	72.87	0.20	7
72.87	75.91	0.75	25
75.91	78.96	1.21	40
78.96	82.01	0.00	0
82.01	85.06	0.94	31
85.06	88.11	1.51	50
88.11	90.54	0.44	18
90.54	92.68	1.30	61
92.68	94.21	0.53	35
94.21	97.26	0.36	12
97.26	100.30	0.00	0
100.30	103.35	0.00	0
103.35	106.40	0.30	10
106.40	109.45	.28	9
109.45	112.50	0.89	29
112.50	115.55	0.21	7
115.55	118.60	1.49	49
118.60	121.65	0.54	18
121.65	124.70	0.50	16

124.70	127.74	2.68	88	124.70	127.74	0.49	16
127.74	130.79	2.70	89	127.74	130.79	1.44	47
130.79	133.84	2.94	96	130.79	133.84	1.90	62
133.84	136.89	2.45	80	133.84	136.89	0.16	5
136.89	139.94	2.36	77	136.89	139.94	0.59	19
139.94	142.99	2.84	93	139.94	142.99	0.13	4
142.99	146.04	1.50	49	142.99	146.04	0.00	0
146.04	149.09	3.12	102	146.04	149.09	0.99	32
149.09	152.13	2.50	82	149.09	152.13	0.00	0
152.13	155.18	2.65	87	152.13	155.18	0.49	16
155.18	158.23	2.28	75	155.18	158.23	0.00	0
158.23	161.28	2.30	75	158.23	161.28	0.00	0
161.28	164.33	2.58	85	161.28	164.33	0.66	22
Recoveries above Gypsum Line				RQD above the Gypsum line			
12.63	164.33	127.97	84	12.63	164.33	40.37	27
164.33	167.38	3.01	99	164.33	167.38	1.38	45
167.38	170.42	3.02	99	167.38	170.42	2.00	66
170.42	173.48	3.01	98	170.42	173.48	1.95	64
173.48	176.53	2.95	97	173.48	176.53	2.40	79
Recoveries below the gypsum line				RQD below the gypsum line			
164.33	176.53	11.99	98	164.33	176.53	7.73	63
Overall Recoveries				Overall RQD			
12.63	176.53	139.96	85	12.63	176.53	48.10	29

Casing pulled No Sperry-Sun test.

DRILL HOLE RECORD

FISH LAKE BC.

Claim:TK - 6
Dates:31 Aug. - 2 Sep. 1989
Contractor: Falcon Drilling Ltd.

Coordinates:10200N 10200E
Length: 158.23 m.
Azimuth/Dip: -90 deg.
Core Size: BGM
Elevation:

HOLE: 89 - 4
Logged by: A.M. Pauwels
Date:4 September 1989
Dip tests, RQD and recoveries on last page.

Objective: Collect core samples for metallurgical testing.

From To (m)	Description

0 - 21.00 Overburden
Casing to 7.62 m

21 - 53.80 Quartz Feldspar Porphyry
Weathering to 24 m.
Pale green to grey coloured, 2 to 4 mm feldspar phenocrystals, subrounded, in a quartz rich matrix. Small clusters (2-4 mm) of chlorite, some are needle shaped, probably after hornblende. Much of the original chlorite content is altered to grey sericite. Small (< 1mm) aggregates of chalcopyrite and pyrite are associated with the chlorite or ex-chlorite clusters. In bleached sections hematite or rarely magnetite is found in these clusters. Veining is abundant and ubiquitous, approx. 10 % of the core volume. Veins: Chlorite stringers with chalcopyrite and pyrite; crosscutting semi-transparent quartz veins. averaging 3 mm , with chalcopyrite and pyrite, rarely hematite or magnetite; also opaque, white dolomite veins up to 5 mm wide, no sulphides. Chlorite is totally bleached out below 53 m.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	40 4	7-vein		30		20-0	none	0-20	tr	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1 .3	1 .3	none	1 .5	tr	none		ch-sul	qz-sul	qz

Sample Id	From To	Cu %	Au g/t	Ag g/t
68898	21-24	0.06	0.162	
99	24-27	0.23	0.713	
68900	27-30	0.17	0.521	
01	30-33	0.13	0.324	
02	33-36	0.23	0.782	
03	37-39	0.29	0.645	
04	39-42	0.19	0.351	
05	42-45	0.21	0.658	
06	45-48	0.25	0.603	
07	48-51	0.08	0.258	
08	51-54	0.10	0.488	

53.80 - 74.50 Diorite
Grey to pale grey, completely sericitized. Medium grained, similar to above, but for smaller grain size and less quartz in matrix.
Slicken-sides and fault contact with above. Veining is much like in section above, most sulphides are pyrite, some chalcopyrite, all in veins.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	20 1.5	5-vein		72	none	none	none			none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.5 .5	2.5 .5	none	tr	none	none		qz-sul		

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68909	54-57	0.12	0.247				
10	57-60	0.09	0.362				
11	60-63	0.09	0.244				
12	63-66	0.09	0.453				
13	66-69	0.09	0.307				
14	69-72	0.06	0.203				
15	72-75	0.07	0.302				

74.50 - 83.65 Diorite
Medium grained, green, small feldspar phenocrystals in a greenish matrix. disseminated magnetite. This rock grades from above, difference is the absence of pervasive sericitization. All sulphides are in veins. Veins occupy 5 % of rock mass: late, thin carbonate stringers, quartz-py-cpy veins, chlorite-py hairline fractures. Many similar veins are crosscutting. Short sericitized sections. Grain size decreases in the bottom 2 m.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	40 1	2		35		20	none		tr	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	tr	1	none		2 .5	none		chl-s	qz-s	carb

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68916	75-78	0.08	0.269				
17	78-81	0.14	0.466				
18	81-84	0.12	0.398				

83.65 - 84.40 Diorite
Coarse grained feldspar porphyry. Small dyke, green, otherwise similar minerals as above. Disseminated magnetite

84.40 - 109.75 Diorite or Andesite
Fine grained to very fine grained. Green to dark green. Approx. 10 % veins. Most sulphides are in the veins but some disseminated cpy and rare bornite associated with clusters of chlorite and possibly some biotite. Abundant disseminated magnetite. Most abundant are stringers of chlorite with sulphides or magnetite, also magnetite stringers, semi-transparent qz veins (3 mm) with sulphides or magnetite, carbonate stringers. Carbonate is latest, then qz veins, magnetite and chlorite veins are earliest. Short sericitized sections from 95-98 m and from 109-109.75 m. This last section is the sericitized edge of a QFP dyke, this clearly proves that sericitization is later than chlorite biotite hornfels and is associated with some of the QFP dykes.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	35 .5	5-vein		55		(40)	tr			none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1 .3	2 .5	tr		2 .5		qz-sul	mag	carb	ch-s

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68919	84-87	0.16	0.590				
20	87-90	0.18	0.987				
21	90-93	0.19	0.809				
22	93-96	0.21	0.837				
23	96-99	0.30	0.864				
24	99-102	0.26	0.841				
25	102-105	0.27	0.782				
26	105-108	0.18	0.576				
27	108-111	0.20	0.600				
28	111-114	0.21	0.850				

109.75-112.5 Quartz Feldspar Porphyry
Pale white, porphyritic, see previous descriptions. Also fairly abundant quartz eyes and disseminated hematite. Veins are less than 5 % of core, sulphides are sparse and mostly in quartz veins.

112.5 - 116.60 Fine grained Diorite, sericitized, bleached.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	40 3	3-eyes		55		none	none			none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	tr	.5 .5	none	3 .5				ser-s	qz-sul	

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68929	114-117	0.20	0.581				

116.60 - 120.5 Sediments or tuff, sericitized, chalky white colour.
Very fine grained, top .2 m is extensively veined with opaque dolomite, with rare specks of sulphides. These veins are anastomosing, irregular and often several cm thick. These veins are late veins, they are found with post mineral dykes and are only post dated by thin carbonate stringers. This vein zone is the contact zone with above diorite. Otherwise numerous, semi-transparent quartz-sulphide stringers and sericite-sulphide stringers.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		8-vein		90	tr					none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.1	1	none	2 .5				qz	qz-sul	s-hem

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68930	117-120	0.29	0.833				

120.5-131.8 Sediments or tuff
Fine to very fine grained, green to dark green. A few short whitish sections. Many thin magnetite stringers. Sparsely disseminated, very fine grained pyrite and chalcopyrite. Most sulphides in thin quartz veins. A few thicker quartz veins with bleached walls and coarse pyrite. Late carbo veins, all thin.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		5-vein		90					1	none
Mineral	cpy	pyr	bor	hem	mag	mo	veins	veins	veins	veins
% mm	.5 .3	1 .5		tr	2	none	mag	q-se-s	qz-sul	carbo

Sample Id	From To	Cu %	Au g/t	Ag g/t
68931	120-123	0.35	1.029	
32	123-126	0.17	0.549	
33	126-129	0.19	0.699	
34	129-132	0.16	0.823	

131.8 - 141 Sediments or tuff
Very fine to fine grained. The difference with the above interval is almost complete bleaching. Bleached areas have the usual greater abundance of qz-sulphide veins, absence of magnetite but a little disseminated hematite. Most sulphides are in veins, both chalcopyrite and pyrite. Also a few thicker (cm's) quartz veins with bleached walls and coarse pyrite centres. Also a few, opaque-white (.5 cm) dolomite stringers, and thin carbonate stingers. Over short sections a relic fine grained, intrusive texture can be seen, so most likely this was originally an andesite.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		6-vein		90		tr	none		1	
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.6	3		tr						

Sample Id	From To	Cu %	Au g/t	Ag g/t
68935	132-135	0.15	0.411	
36	135-138	0.30	1.015	
37	138-141	0.15	0.411	

141 - 145 Diorite
Green, fine grained. Disseminated and vein magnetite, sparsely disseminated chalcopyrite, very fine grained and associated with clusters of chlorite. Most sulphides are in thin quartz veins. Thin carbonate stringers.

145 - 158.23 Diorite or andesite
Fine to very fine grained, partially bleached to totally bleached, colour from pale green to white. Most parts have a recognizable equigranular texture, hence classified as diorite. Abundant veining, averages 15 % of the core volume. Late, thin white carbonate stringers, a few .5 to 2 cm thick opaque white dolomite veins, numerous semi- transparent quartz (3 mm average) with pyrite, some chalcopyrite., many crosscutting thin quartz-sericite (chlorite) stringers with fine grained pyrite and or chalcopyrite or hematite. Some disseminated pyrite and chalcopyrite.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		8		85	tr	tr			.5	none
Mineral	cpy	pyr	bor	hem	mag	mo	veins	veins	veins	veins
% mm	.8	4		2	tr	none	q-se-s	q-sul	qz	carbo

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68938	141-144	0.10	0.335				
39	144-147	0.20	0.466				
40	147-150	0.13	0.576				
41	150-153	0.22	0.719				
42	153-156	0.19	0.823				
43	156-158.23	0.16	0.329				

158.23 END OF HOLE

RECOVERIES

Blocks from	to	length	%
21.04	24.09	2.49	82
24.09	27.13	2.95	97
27.13	30.18	2.93	96
30.18	33.23	2.88	94
33.23	36.28	2.87	94
36.28	39.33	2.94	96
39.33	42.38	2.99	98
42.38	45.42	3.03	100
45.43	48.48	3.00	98
48.48	51.52	2.94	97
51.52	54.57	2.89	95
54.57	57.62	2.96	97
57.62	60.67	2.86	94
60.67	63.72	2.79	91
63.72	66.77	2.78	91
66.77	69.82	2.72	89
69.82	72.87	3.01	99
72.87	75.91	2.64	87
75.91	78.96	2.84	93
78.96	82.01	1.84	60
82.01	85.06	2.56	84
85.06	88.11	2.41	79
88.11	91.16	2.39	78
91.16	94.21	2.21	72
94.21	97.26	2.78	91
97.26	100.30	2.38	78
100.30	103.35	2.52	83
103.35	106.40	2.30	75
106.40	109.45	2.57	84
109.45	112.50	2.78	91
112.50	115.55	2.67	88
115.55	118.60	2.84	93
118.60	121.65	2.59	85
121.65	124.70	2.68	88
124.70	127.74	3.00	99
127.74	130.79	2.19	72
130.79	133.84	2.88	94
133.84	136.89	3.00	98
136.89	139.94	2.95	97
139.94	142.99	2.49	82
142.99	146.04	2.20	72
146.04	149.09	2.34	77
149.09	152.13	3.03	100
152.13	155.18	2.79	91
155.18	158.23	2.93	96

Overall Recoveries

21.04	158.23	121.83	89

RQD

from	to	shorts	%
21.04	24.09	0.95	31
24.09	27.13	1.55	51
27.13	30.18	1.94	64
30.18	33.23	1.28	42
33.23	36.28	1.76	58
36.28	39.33	0.96	31
39.33	42.38	0.88	29
42.38	45.42	1.42	47
45.42	48.48	0.42	14
48.48	51.52	1.05	35
51.52	54.57	1.10	36
54.57	57.62	1.41	46
57.62	60.67	2.13	70
60.67	63.72	1.41	46
63.72	66.77	1.05	34
66.77	69.82	0.89	29
69.82	72.87	0.50	16
72.87	75.91	0.40	13
75.91	78.96	0.00	0
78.96	82.01	0.55	18
82.01	85.06	0.00	0
85.06	88.11	0.12	4
88.11	91.16	0.30	10
91.16	94.21	0.00	0
94.21	97.26	0.76	25
97.26	100.30	0.00	0
100.30	103.35	0.00	0
103.35	106.40	0.00	0
106.40	109.45	0.20	7
109.45	112.50	1.27	42
112.50	115.55	0.53	17
115.55	118.60	1.53	50
118.60	121.65	0.16	5
121.65	124.70	0.42	14
124.70	127.74	0.13	4
127.74	130.79	0.00	0
130.79	133.84	1.25	41
133.84	136.89	1.31	43
136.89	139.94	1.15	38
139.94	142.99	0.00	0
142.99	146.04	0.25	8
146.04	149.09	0.25	8
149.09	152.13	1.23	40
152.13	155.18	1.53	1
155.18	158.23	2.06	68

Overall RQD

21.04	158.23	36.10	26

Casing pulled Sperry sun 88.5 deg. at 150 m

DRILL HOLE RECORD

FISH LAKE BC.

Claim:TK - 6
Dates:3 - 4 Sep. 1989
Contractor: Falcon Drilling ltd.

Coordinates:10300E 10200 N
Length: 170.43 m
Azimuth/Dip: -90 deg.
Core Size: BGDM
Elevation:

HOLE: 89 - 5
Logged by: A.M. Pauwels
Date: September 5, 1989
Dip tests, RQD and recoveries on last page.

Objective:Collect core samples for metallurgical testing.

From To (m)	Description

0- 12.19 Overburden

12.19 - 23.20 Quartz Feldspar Porphyry
Weathered to 18.70 m, limonite and malachite stains. Coarse grained pale green, feldspar phenocrystals in a quartz rich matrix, abundant disseminated magnetite, hematite in short bleached sections. Sulphides mostly in thin quartz veins.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	30 5			60						
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.5	.5	none	2 .5	3 1	none		qz-sul		

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68944	12.19-15	0.32	0.494				
45	15-18.70	0.18	0.406				
46	18.70 -21	0.15	0.324				
47	21-23.20	0.22	0.228				

23.20 - 57.90 Post Mineral Dyke
Pale white to greenish. One to three mm feldspar phenocrystals, 0.5 by 5 mm needle shaped hornblende phenocrystals in a pale green, quartz rich matrix. No sulphides, rare quartz and carbonate veins. Top contact at 68 deg. Bottom contact at 65 to 70 deg. from horizontal.

57.91 - 61.90 Quartz Diorite
Green, medium grained. A few 2 to 3 mm feldspar pheno's, many 1-2 mm in a greenish quartz rich matrix. Sparse quartz veins with py and chalcopyrite. Top contact is clear with the PM dyke, bottom contact is unclear, seems to grade into a PM dyke texture.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	35 2			65						
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.2	.3							qz-sul	carb.

Sample Id	From To	Cu %	Au g/t	Ag g/t
68948	57.91- 61.00	0.27	0.686	
49	61.00- 65.20	0.07	0.628	

61.90 - 97.2 Post Mineral Dyke
Similar to above, but pervasively sericitized. Bottom contact broken up.

97.2 - 114.20 Sediments or tuff
White, veined, sericitized over most of its' length. A few short dark green sections. Very fine grained, white matrix with spots of grey sericite/sulphides and 15 % thin veins, most frequent are quartz-sericite-sulphides, some semi-transparent quartz with sulphides. Both pyrite and chalcopyrite. Most chalcopyrite is in the veins. Fault gauges at 106.5, 98.7 m.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		5		90		tr				none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1	2		2	tr	none		qz-s	qz-se-s	qz

Sample Id	From To	Cu %	Au g/t	Ag g/t
68950	97.26-100	0.33	0.627	
51	100-103	0.27	0.603	
52	103-106	0.21	0.494	
53	106-109	0.29	0.741	
54	109-112	0.32	0.549	
55	112-114.70	0.23	0.430	

114.20- 117 Post Mineral dyke, light coloured. The bottom meter and adjacent section below has a network of opaque dolomite stringers, the thickest veins have vugs. The top and bottom contacts are irregular.

117 - 139.00 Sediment or Tuff.
Very fine grained, white sericitized to 119.8 m. Green below that to 123 m and from 127.6 to 132.5 m. This last section has a fine grained, equigranular texture, possibly a diorite dyke. Many veins. Most are thin crosscutting sericite-sulphide (quartz) also late dolomite, and semi-transparent quartz-sulphide stringers, trace of gypsum on fracture at 123 m.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		7-vein		90						tr
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.5	1		1	tr			qz-sul	se-sul	dol

Sample Id	From	To	Cu %	Au g/t	Ag g/t
68956	117	120	0.16	0.299	
57	120	123	0.19	0.389	
58	123	126	0.17	0.362	
59	126	129	0.11	0.236	
60	129	132	0.14	0.244	
61	132	135	0.22	0.446	
62	135	138	0.26	0.466	

138 - 149.10 Andesite
Fine to very fine grained , green, small equigranular , .5 mm feldspars in a green to dark green matrix (quartz-chlorite-feldspar). Alteration consists of chloritization of the mafics (biotite also ?) and veining, Veins occupy less than 5 % , many thin post mineral carbonate, a few PM dolomite, some semi-transparent quartz-sulphide stringers. A few sericite-quartz-pyrite stringers. Disseminated magnetite, hematite in slightly bleached sections, rare disseminated py and cpy

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	25	1-vein		55		15	?		1	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.6 1	1 1		1	2 .5			qz-sul	q-se-p	carb

Sample Id	From	To	Cu %	Au g/t	Ag g/t
68963	138	141	0.18	0.543	
64	141	144	0.13	0.217	
65	144	147	0.23	0.299	
66	147	149.1	0.39	0.527	

149.10 -158.2 Post Mineral Dyke

158.2 - 163.00 Sediments or Tuff, very altered.
Bleached and very fine grained. Numerous sericite-q-sulphide veins, low chalcopyrite content. Very much like 117-136 m.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm										
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.3	2								

Sample Id	From To	Cu %	Au g/t	Ag g/t			
68967	158.2-160	0.23	0.562				
68	160-163	0.22	0.274				

163 - 170.43 Post Mineral Dyke

170.43 END OF HOLE

RECOVERIES

Blocks from	to	length	%
12.19	14.94	2.21	80
14.94	17.99	2.75	90
17.99	21.04	2.85	93
21.04	24.09	2.88	94
24.09	27.13	3.01	99
27.13	30.18	2.88	94
30.18	33.23	3.05	100
33.23	36.28	2.95	97
36.28	39.33	2.86	94
39.33	42.38	2.98	98
42.38	45.42	2.86	94
45.43	48.48	2.88	94
48.48	51.52	2.82	93
51.52	54.57	2.85	93
54.57	57.62	2.76	90
57.62	60.67	2.73	90
60.67	63.72	2.68	88
63.72	66.77	3.07	101
66.77	69.82	2.94	96
69.82	72.87	2.95	97
72.87	75.91	2.87	94
75.91	78.96	2.81	92
78.96	82.01	2.80	92
82.01	85.06	2.92	96
85.06	88.11	2.98	98
88.11	91.16	2.88	94
91.16	94.21	2.94	96
94.21	97.26	2.89	95
97.26	100.30	2.42	80
100.30	103.35	2.88	94
103.35	106.40	2.96	97

RQD

from	to	shorts	%
12.19	14.94	0.76	28
14.94	17.99	0.97	32
17.99	21.04	0.70	23
21.04	24.09	1.66	54
24.09	27.13	1.67	55
27.13	30.18	1.76	58
30.18	33.23	1.84	60
33.23	36.28	2.27	74
36.28	39.33	1.81	59
39.33	42.38	2.13	70
42.38	45.42	2.03	67
45.42	48.48	2.36	77
48.48	51.52	1.89	62
51.52	54.57	2.10	69
54.57	57.62	1.83	60
57.62	60.67	0.11	4
60.67	63.72	0.89	29
63.72	66.77	2.63	86
66.77	69.82	2.78	91
69.82	72.87	2.53	83
72.87	75.91	2.45	81
75.91	78.96	2.13	70
78.96	82.01	1.79	59
82.01	85.06	1.82	60
85.06	88.11	2.42	79
88.11	91.16	1.30	43
91.16	94.21	2.12	70
94.21	97.26	2.10	69
97.26	100.30	0.67	22
100.30	103.35	1.40	46
103.35	106.40	1.30	43

Blocks		RECOVERIES				RQD	
from	to	length	%	from	to	shorts	%
106.40	109.45	2.98	98	106.40	109.45	1.10	36
109.45	112.50	2.91	95	109.45	112.50	1.65	54
112.50	115.55	2.89	95	112.50	115.55	1.19	39
115.55	118.60	2.98	98	115.55	118.60	2.35	77
118.60	121.65	2.91	95	118.60	121.65	.61	20
121.65	124.70	2.92	96	121.65	124.70	.14	5
124.70	127.74	2.96	97	124.70	127.74	2.27	75
127.74	130.79	2.76	90	127.74	130.79	0.65	21
130.79	133.84	2.78	91	130.79	133.84	0.72	24
133.84	136.89	3.00	98	133.84	136.89	1.29	42
136.89	139.94	2.94	96	136.89	139.94	1.09	36
139.94	142.99	2.78	91	139.94	142.99	0.00	0
142.99	146.04	2.43	80	142.99	146.04	0.00	0
146.04	149.09	2.68	88	146.04	149.09	0.35	11
149.09	152.13	2.98	98	149.09	152.13	1.21	40
152.13	155.18	3.06	100	52.13	155.18	1.39	1
155.18	158.23	2.98	98	155.18	158.23	1.04	34
158.23	161.28	2.69	88	158.23	161.28	0.00	0
161.28	164.33	2.75	90	161.28	164.33	0.69	23
164.33	167.38	2.89	95	164.33	167.38	0.97	32
167.38	170.43	3.00	98	167.38	170.43	1.15	38
Overall Recovery				Overall RQD			
12.19	170.43	148.58	94	12.19	170.43	74.08	47

Casing pulled

Sperry Sun test at 170 m 88.5 deg.

DRILL HOLE RECORD

FISH LAKE BC.

Claim:TK - 6

Dates:5-6 Sep. 1989
Contractor: Falcon Drilling ltd.

Coordinates:10200E 10095N
Length: 152.13
Azimuth/Dip: -90 deg.
Core Size: BGDM
Elevation:

HOLE: 89 - 6
Logged by: A.M. Pauwels
Date: 7 September 1989
Dip tests, RQD and recoveries on last page.

Objective: Collect core samples for metallurgical testing

From	To (m)	Description

0-18.30 Overburden and casing

18.3- 31.2 Andesite
Bleached, fine grained, a few green sections (Description see below). Minor oxidation to 21.2 m. Pale green to white, many blotches (2-4 mm) of semi-sericitized chlorite, remainder white, sericitized. Abundant veining (7 %), mostly thin stringers of chlorite, in part or totally sericitized with quartz and sulphides or hematite. A few thicker quartz veins with coarser pyrite and chalcopyrite.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		7-vein		89						
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1	2		1	tr					

Sample Id	From To	Cu %	Au g/t	Ag g/t
68969	18.3-21	0.40	0.556	
70	21-24	0.37	0.817	
71	24-27	0.25	0.754	
72	27-30	0.29	0.548	

31.2 - 48.8 Andesite.
Same texture as above but green coloured and less veined. Dark green spots of secondary biotite and/or chlorite, these spots measure up to 1/2 cm across and contain fine grained magnetite and lesser amounts of extremely fine grained chalcopyrite and pyrite. Also quartz-chlorite/biotite-py-cpy veins (1-2 mm). A few thicker quartz-py-cpy veins. Many, very thin carbonate stringers. A few dolomite stringers near the top of the hole. This, together with the bleaching near the top of the core, could indicate a nearby PM-dyke.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		4-vein		75	none	10	2	?	1	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1.5	2		tr	3			q-b-s	q-s	carb

Sample Id	From To	Cu %	Au g/t	Ag g/t
68973	30-33	0.26	0.389	
74	33-36	0.28	0.384	
75	36-39	0.23	0.617	
76	39-42	0.23	0.411	
77	42-45	0.23	0.617	
78	45-48	0.21	0.905	

48.8- 106 Quartz Feldspar Porphyry

Coarse grained green to grey. Large (2-4 mm) white to greenish feldspar phenocrystals, small clusters of chlorite, matrix of quartz-sericite-feldspars or quartz feldspar where no secondary sericitization. A few flakes of primary biotite. Quartz lined miarolitic cavities throughout. Finely disseminated magnetite is abundant, lesser amounts of fine pyrite and chalcopyrite. Almost all sulphides are in veins. Most common are thin quartz-chlorite/biotite-chalcopyrite-pyrite-bornite. Some of the veins have disseminated chalcopyrite well into (cm's) the wall rock. Veining varies in density. This interval includes several blocks and pieces of fine grained (mineralised) andesite. Sericitization (pale green) from 50-58 m. Bleached zone around fault from 72- 76 m. Fault surface is coated with fine grained 1 mm thick pyrite, fault at 20 deg. to core axis. Pervasive bleaching also from 91 to 94 m.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	25 3	5-vein		48		15				
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.8 .5	1	tr		4 .5			q-b-s		

Sample Id	From To	Cu %	Au g/t	Ag g/t
68979	48-51	0.11	0.425	
80	51-54	0.18	0.466	
81	54-57	0.21	0.466	
82	57-60	0.13	0.398	
83	60-63	0.22	0.562	
84	63-66	0.20	0.406	
85	66-69	0.18	0.919	
86	69-72	0.17	0.527	
87	72-75	0.29	0.480	
88	75-78	0.21	0.603	
89	78-81	0.20	0.782	
90	81-84	0.18	0.466	
91	84-87	0.23	0.466	
92	87-90	0.16	0.398	
93	90-93	0.21	0.571	
94	93-96	0.30	0.296	
95	96-99	0.28	0.609	
96	99-102	0.16	0.252	
97	102-105	0.13	0.202	

106 - 113 Andesite

Fine to very fine grained. Bleached to 110 m, greenish and finer grained from 110 to 112 m. Bleached again from 112 to 112.5 m. In the bleached part, disseminated hematite, numerous (5 %) thin quartz-chalcopyrite/hematite veins, a little disseminated fine grained chalcopyrite. The green parts have less veins, more disseminated cpy and also magnetite, minor pyrite, veins are chlorite-sulphide-quartz.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	(35).5	4-vein		90	none	(5)		(50)	tr	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1	.5	tr	3	1	none		q-s	q-c-s	carb

Sample Id	From To	Cu %	Au g/t	Ag g/t
68998	105-108	0.26	0.727	
99	108-111	0.23	0.631	
69000	111-114	0.25	0.581	

113- 152.13 Quartz Feldspar Porphyry
Medium to coarse grained. Large (2-5 mm) feldspar phenocrystals, small amount of 2 mm quartz eyes, quartz rich matrix. Disseminated hematite, pervasively sericitized. 2 to 4 mm semi-transparent quartz-sulphide veins , and sparsee very finely disseminated chalcopyrite. From 127-142.8 m and from 147.5 to end, sericitization diminishes and green colour prevails, still most sulphides in veins, mostly chalcopyrite. Also disseminated and vein magnetite. Both disseminated mag. and cpy cluster with chlorite. The green parts seem to have the best grade.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	40 3	4 2		55	none	5				none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1	1		1.5	2	none		q-s	q-c-s	

Sample Id	From To	Cu %	Au g/t	Ag g/t
69001	114-117	0.19	0.411	
02	117-120	0.13	0.274	
03	120-123	0.24	0.337	
04	123-126	0.45	0.850	
05	126-129	0.16	0.316	
06	129-132	0.13	0.329	
07	132-135	0.29	0.362	
08	135-138	0.24	0.343	
09	138-141	0.25	0.299	
10	141-144	0.10	0.156	
11	144-147	0.10	0.112	
12	147-150	0.10	0.126	
13	150-152.13	0.09	0.148	

152.13 END OF HOLE

RECOVERIES

Blocks from	to	length	%
18.30	21.00	1.35	50
21.00	24.10	2.80	90
24.10	27.10	2.80	93
27.10	30.20	2.60	84
30.20	33.20	2.60	87
33.20	36.30	2.70	87
36.30	39.30	2.80	7
39.30	42.40	2.10	5
42.40	45.40	1.60	53
45.40	48.50	1.30	42
48.50	51.50	2.70	90
51.50	54.60	2.90	94
54.60	57.60	2.90	97
57.60	60.70	3.10	100
60.70	63.70	2.90	97
63.70	66.80	3.10	100
66.80	69.80	2.80	93
69.80	72.90	2.90	94
72.90	75.90	2.90	97
75.90	79.00	3.10	100
79.00	82.00	2.90	97
82.00	85.10	3.00	97
85.10	88.10	2.90	97
88.10	91.10	2.80	93
91.10	94.20	3.00	97
94.20	97.20	2.90	97
97.20	100.30	2.80	90
100.30	103.30	3.00	100
103.30	106.40	3.10	100
106.40	109.40	3.00	100
109.40	112.50	3.10	100
112.50	115.50	3.00	100
115.50	118.60	2.80	90
118.60	121.60	3.00	100
121.60	124.70	3.00	97
124.70	127.70	2.90	97
127.70	130.80	3.00	97
130.80	133.80	2.90	97
133.80	136.90	2.90	94
136.90	139.90	2.90	97
139.90	143.00	2.90	94
143.00	146.00	3.00	100
146.00	149.10	3.00	97
149.10	152.10	2.80	93

Overall Recovery

18.30	152.10	122.55	92

Casing Pulled
No dip test taken

RQD

from	to	shorts	%
18.30	21.00	0.10	4
21.00	24.00	0.47	16
24.00	27.00	0.40	13
27.00	30.00	0.10	3
30.00	33.00	0.00	0
33.00	36.00	0.00	0
36.00	39.00	0.10	3
39.00	42.00	0.20	7
42.00	45.00	0.00	0
45.00	48.00	0.00	0
48.00	51.00	0.00	0
51.00	54.00	0.54	18
54.00	57.00	0.51	17
57.00	60.00	0.12	4
60.00	63.00	0.33	11
63.00	66.00	0.94	31
66.00	69.00	1.10	37
69.00	72.00	0.70	23
72.00	75.00	0.47	16
75.00	78.00	0.62	21
78.00	81.00	0.58	19
81.00	84.00	0.37	12
84.00	87.00	0.62	21
87.00	90.00	0.00	0
90.00	93.00	0.45	15
93.00	96.00	0.62	21
96.00	99.00	0.10	3
99.00	102.00	2.10	70
102.00	105.00	1.40	47
105.00	108.00	1.89	63
108.00	111.00	1.50	50
111.00	114.00	1.60	53
114.00	117.00	1.65	55
117.00	120.00	1.84	61
120.00	123.00	1.70	57
123.00	126.00	1.95	65
126.00	129.00	1.65	55
129.00	132.00	1.04	35
132.00	135.00	1.25	42
135.00	138.00	1.22	41
138.00	141.00	1.29	43
141.00	144.00	0.79	26
144.00	147.00	0.94	31
147.00	150.00	0.00	0
150.00	152.10	0.25	12

Overall RQD

18.30	152.10	33.50	25

DRILL HOLE RECORD

FISH LAKE BC.

Claim:TK - 6
Dates:5 - 7 Sep. 1989
Contractor: Falcon Drilling ltd.

Coordinates: 10300E 10200N
Length: 152.13 m
Azimuth/Dip: -90 deg.
Core Size: BGDM
Elevation:

HOLE: 89 - 7
Logged by: A.M. Pauwels
Date:7 September 1989
Dip tests, RQD and recoveries on last page.

Objective:Collect core samples for metallurgical testing

From To (m)	Description

0 - 6.10 Overburden

6.10 - 18.2 Diorite
Medium to fine grained, weathered to 16.50 m.
Very altered, 1 to 2 mm feldspar phenocrysts in very fine grained matrix. All bleached. Malachite on weathered fractures. Several cm-wide quartz-py veins. Also thin quartz sulphide veins and thin carbonate stringers, veins occupy 3 % of core volume.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	40 1.5	2		55		tr			2	
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.3	1						carb	qz-sul	

Sample Id	From To	Cu %	Au g/t	Ag g/t
69014	6.10-11	0.26	0.453	
15	11-14	0.27	0.562	
16	14-17	0.39	0.562	

18.2- 50.60 Sediments or Tuff
Almost completely sericitized.
Many sections are very fine grained, so original rock might be andesite. Tuff or sediment. Many spots (2-4 mm) of secondary chlorite, mostly all now sericitized with associated sparse and very fine grained pyrite and chalcopyrite and more abundant fine grained hematite. Abundant veining, estimated at 10 % of core volume. Most veins are thin quartz-sulphide stringers, a few semi-transparent quartz-sulphide stringers. Almost all sulphides are in the veins, locally abundant disseminated fine grained hematite. A few large dolomite veins, rare thin carbonate stringers. Contact zone with above has abundant fine grained pyrite and a few dolomite veins over 40 cm. Fault gauges and clay from 30 to 31.5 m and at 32 m, angle appears to be at 45 deg. to the core axis. Bleaching and alteration increase with depth and so does the pyrite content.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		4-vein		75	tr	10			3	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1	3	tr	3		none		qz-sul	dol	crb

Sample Id	From To	Cu %	Au g/t	Ag g/t
69017	17-20	0.24	0.418	
18	20-23	0.26	0.521	
19	23-26	0.31	0.411	

Sample Id	From To	Cu %	Au g/t	Ag g/t			
20	26-29	0.35	0.800				
21	29-32	0.33	0.719				
22	32-35	0.28	0.576				
23	35-38	0.33	0.974				
24	38-41	0.25	0.686				
25	41-44	0.33	1.810				
26	44-47	0.43	0.686				
27	47-50	0.35	0.371				

50.60 - 101.7 Quartz Feldspar Porphyry
Medium to coarse grained, bleached, veined.
White ,soft, 2-4 mm feldspar pheno-ghosts, rare quartz eyes, 1-3 mm. The matrix is quartz-sericite, finely disseminated hematite, much more sparsely disseminated chalcopyrite. Top contact irregular, estimated at 15 deg. to core axis. Veining mostly thin quartz-chalcopyrite-pyrite. Also 1 to 3 cm wide quartz-sericite veins with pyrite centres. Total veining estimated at 4 % of core, diminishes with depth. Fault gauge at 67, at 58.5 (10 deg to core axis). Chalcopyrite content diminishes with depth, pyrite content increases. From 90 m on the colour becomes more greenish, also miarolitic cavities and some disseminated magnetite. Contact is gradational. So sericitization obliterates cavities, transforms magnetite into hematite, transforms all chlorite/biotite into sericite, is a poor host for late carbonate stringers and perhaps redistributes finely disseminated chalcopyrite/pyrite into quartz veins.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	35 2	3-vein		55					tr	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1	3		2	none	none			qz-sul	

Sample Id	From To	Cu %	Au g/t	Ag g/t			
69028	50-53	0.26	0.302				
29	53-56	0.28	0.406				
30	56-59	0.21	0.406				
31	59-62	0.19	0.343				
32	62-65	0.27	0.398				
33	65-68	0.08	0.187				
34	68-71	0.35	0.549				
35	71-74	0.49	0.562				
36	74-77	0.16	0.296				
37	77-80	0.17	0.208				
38	80-83	0.22	0.372				
39	83-86	0.14	0.225				
40	86-89	0.14	0.200				
41	89-92	0.17	0.370				
42	92-95	0.15	0.357				
43	95-98	0.27	0.576				

101.7- 102.9 Sediments or tuff
Very fine grained, veined, bleached, could be an inclusion

102.9 - 121.45 Quartz Feldspar Porphyry
Very much like above in texture and alteration. Pale coloured, sericitized.

Mineral	feld.	quartz	Q vein	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	35 3	5 2	5	50					tr	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.6	2.5		2		none		q-s	q-ca-s	

Sample Id	From To	Cu %	Au g/t	Ag g/t
69044	98-101	0.12	0.335	
45	101-104	0.19	0.409	
46	104-107	0.18	0.332	
47	107-110	0.15	0.214	
48	110-113	0.21	0.362	
49	113-116	0.24	0.535	
50	116-119	0.25	0.603	

121.45-127.8 Andesite (?)
Very altered, mostly very fine grained and fully bleached, a few short sections with fine grained diorite or andesite texture. Finely disseminated hematite. Many (6 %) thin quartz-sulphide veins. Sulphides are predominantly chalcopyrite. Fault zone (15 deg. to core axis), gauges, and plane coated with fine pyrite/clay at 125-125.5 m. Some spots and patches of sericite-quartz with very fine grained pyrite and chalcopyrite, these are probably sericitized secondary chlorite patches.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		6-vein		90						none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.4	1		2				q-s		

Sample Id	From To	Cu %	Au g/t	Ag g/t
69051	116-119	0.22	0.357	
52	119-122	0.45	0.933	
53	122-125	0.11	0.309	
54	125-128	0.20	0.326	

127.8 - 129.9 Quartz Feldspar Porphyry
Totally sericitized, no trace of an early chloritization. White feldspars, (15 %) in pale cream coloured matrix. A few semi-transparent quartz-sulphide (py, cpy) veins. A few specs of hematite. Overall 0.1 % Cu at best. Less quartz and much less feldspar pheno,s than the usual QFP.

129.9 -133.4 Fault gouges, and totally bleached.
Pyrite coated fault surfaces, several thick py-quartz veins. No chalcopyrite seen.

133.4- 155.2 Quartz Feldspar Porphyry
Very much like 127.8-129.9. All white, bleached sericitized. Feldspar pheno's and quartz eyes, both 2 -4 mm. Numerous (4 %) semi-transparent quartz-cpy-py veins, usually 4 mm and up to 2 cm. Very fine grained , disseminated hematite. Late carbonate veins. Pyrite coated fault surfaceand fault gauges, almost parallel to the core axis at 139 m.

Sample Id	From To	Cu %	Au g/t	Ag g/t			
69055	128-131	0.12	0.439				
56	131-134	0.23	0.409				
57	134-137	0.20	0.384				
58	137-140	0.17	0.576				
59	140-143	0.14	0.329				
60	143-146	0.16	0.250				
61	146-149	0.27	0.425				
62	149-152	0.20	0.329				
63	152-155	0.29	0.549				

155.2- 164.33 Andesite

Fine to very fine grained, fully sericitized. Many thin and thicker quartz veins with bornite and chalcopyrite. Abundant, fine grained hematite and some disseminated bornite and chalcopyrite. Also later opaque white quartz stingers with pyrite. A few late carbonate veinlets. A few of the thicker q-s veins have grey sericitic rims.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		7-vein		90	none	none	none			none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.3 .3	1	.3 .3	2 .5	none			q-s	q-py	carb

Sample Id	From To	Cu %	Au g/t	Ag g/t			
69064	155-158	0.24	0.672				
65	158-161	0.19	0.960				
66	161-164.33						

164.33 END OF HOLE

Blocks		RECOVERIES				RQD	
from	to	length	%	from	to	shorts	%
6.10	8.84	1.07	39	6.10	8.84	0.00	0
8.84	11.89	2.77	91	8.84	11.89	1.47	48
11.89	14.94	2.90	95	11.89	14.94	2.24	73
14.94	17.99	2.88	94	14.94	17.99	1.13	37
17.99	21.04	2.78	91	17.99	21.04	1.19	39
21.04	24.09	2.91	95	21.04	24.09	1.41	46
24.09	27.13	3.05	100	24.09	27.13	0.83	27
27.13	30.18	2.99	98	27.13	30.18	1.42	47
30.18	33.23	2.86	94	30.18	33.23	0.87	29
33.23	36.28	2.77	91	33.23	36.28	.83	27
36.28	39.33	3.09	101	36.28	39.33	1.80	59
39.33	42.38	2.93	96	39.33	42.38	1.96	64
42.38	45.42	2.77	91	42.38	45.42	0.82	27
45.43	48.48	2.12	70	45.42	48.48	0.81	26
48.48	51.52	3.10	102	48.48	51.52	1.32	43
51.52	54.57	3.02	99	51.52	54.57	1.20	39
54.57	57.62	3.04	100	54.57	57.62	2.20	72
57.62	60.67	2.95	97	57.62	60.67	2.76	90
60.67	63.72	2.89	95	60.67	63.72	1.13	37
63.72	66.77	2.93	96	63.72	66.77	2.00	66
66.77	69.82	2.88	94	66.77	69.82	2.18	71
69.82	72.87	3.04	100	69.82	72.87	1.51	50
72.87	75.91	2.96	97	72.87	75.91	2.60	86
75.91	78.96	2.97	97	75.91	78.96	1.65	54
78.96	82.01	2.95	97	78.96	82.01	1.07	35
82.01	85.06	2.91	95	82.01	85.06	0.44	14
85.06	88.11	3.00	98	85.06	88.11	1.10	36
88.11	91.16	2.99	98	88.11	91.16	1.29	42
91.16	94.21	3.01	99	91.16	94.21	1.48	49
94.21	97.26	2.86	94	94.21	97.26	1.02	33
97.26	100.30	2.98	98	97.26	100.30	0.37	12
100.30	103.35	2.71	89	100.30	103.35	0.55	18
103.35	106.40	2.80	92	103.35	106.40	.66	22
106.40	109.45	2.74	90	106.40	109.45	0.98	32
109.45	112.50	2.84	93	109.45	112.50	1.27	42
112.50	115.55	2.83	93	112.50	115.55	1.04	34
115.55	118.60	2.99	98	115.55	118.60	1.20	39
118.60	121.65	2.94	96	118.60	121.65	2.28	75
121.65	124.70	2.87	94	121.65	124.70	1.21	40
124.70	127.74	2.95	97	124.70	127.74	0.55	18
127.74	130.79	2.82	92	127.74	130.79	1.03	34
130.79	133.84	2.21	72	130.79	133.84	0.15	5
133.84	136.89	3.40	111	133.84	136.89	2.01	66
136.89	139.94	2.73	90	136.89	139.94	0.66	22
139.94	142.99	3.00	98	139.94	142.99	0.00	0
142.99	146.04	2.89	95	142.99	146.04	2.40	79
146.04	149.09	3.00	98	146.04	149.09	2.45	80
149.09	152.13	2.92	96	149.09	152.13	1.04	34
152.13	155.18	3.03	99	152.13	155.18	1.65	54
155.18	158.23	2.97	97	155.18	158.23	2.31	76
158.23	161.28	2.99	98	158.23	161.28	1.55	51
161.28	164.33	3.02	99	161.28	164.33	2.00	66
6.10	164.33	149.02	94	6.10	164.33	69.09	44

Casing pulled

Dip test at 160 m :

DRILL HOLE RECORD

FISH LAKE BC.

Claim:TK - 6
Dates:7 - 8 Sep. 1989
Contractor: Falcon Drilling Ltd.

Coordinates:10405E 10100N
Length: 179.58 m
Azimuth/Dip: -90 deg.
Core Size: BGM
Elevation:

HOLE: 89 - 8
Logged by: A.M. Pauwels
Date: 9 September 1989
Dip tests, RQD and recoveries on last page.

Objective: Collect core samples for metallurgical testing.

From To (m)	Description
0 -10.67	Overburden and casing
10.67 - 81.60	Diorite Weathered to 18.5 m. Green, medium to fine grained. White feldspar pheno's in a greenish matrix. Darker spots and patches of secondary chlorite/biotite with associated chalcopyrite, magnetite, rare pyrite. Chalcopyrite and pyrite are also found in thin quartz stringers in the green sections. Many short bleached intervals (20 % of core). From 22.5- 24.2 m and in all bleached intervals, a few thick quartz-pyrite (rare specs of chalcopyrite) veins occur with bleaching extending into the walls. The light coloured sections have semi-transparent quartz-sulphide stringers and disseminated hematite. Bleached sections from 30-33, 36-39.5 m, 54-55.5, 57.5-58.5 m, 65-66.1 m, also short bleached sections over less than .5 m. Also sericitized and pyrite rich near the contact with the underlying QFP from 74 m to 81.6 m. At 60.5 m 5 cm wide quartz vein with pyrite and molybdenite. With depth some of the feldspars phenocrystals are larger, becomes more porphyritic.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	50 1.5	3-vein			none	25	?	15	1	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1	1		tr	2	tr		q-se-p	qz-sul	carb

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %		
69066	10.63-12	0.17	0.754				
67	12-15	0.15	0.480				
68	15-18	0.19	0.302				
69	18-21	0.19	0.439				
70	21-24	0.18	0.370				
71	24-27	0.28	0.411				
72	27-30	0.18	0.466				
73	30-33	0.22	0.329				
74	33-36	0.18	0.425				
75	36-39	0.25	0.488				
76	39-42	0.24	0.351				
77	42-45	0.26	0.274				
78	45-48	0.16	0.217				
79	48-51	0.17	2.085				
80	51-54	0.29	0.384				
81	54-57	0.30	0.590				
82	57-60	0.23	0.362				
83	60-63	0.19	0.332				
84	63-66	0.26	0.535				
85	66-69	0.38	0.768				
86	69-72	0.28	0.398				
87	72-75	0.20	0.324				
88	75-78	0.17	0.255				
89	78-81	0.20	0.335				

81.60-121.73 Quartz Feldspar Porphyry

Grey, medium to coarse grained. Large feldspar phenocrystals, a few quartz phenocrystals, sparsely disseminated pyrite, chalcopyrite and hematite. Quartz-chlorite or quartz-sericite matrix. Most of the interval is pervasively sericitized, with numerous semi-transparent quartz-sulphide veins. A few short green, chloritic sections in the top 10 m of the interval. Several carbonate-quartz-sericite-pyrite veins. Fault gouges from 105-107 m. Bottom contact at 30 deg. to the core axis. Top contact irregular, breccia.

Mineral	feld.	quartz	q-vein	matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	30 3	2 3	4	75		(5)			tr	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.8 .3	1 .3		1 .3	none			q-sul		

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %		
69090	81-84	0.23	0.357				
91	84-87	0.23	0.343				
92	87-90	0.27	0.406				
93	90-93	0.40	0.466				
94	93-96	0.13	0.165				
95	96-99	0.14	0.220				
96	99-102	0.17	0.384				
97	102-105	0.26	0.315				
98	105-10	0.14	0.274				
99	108-111	0.21	0.302				
100	111-114	0.22	0.236				
101	114-117	0.26	0.274				
102	117-120	0.14	0.270				
03	120-123	0.16	0.850				

121.73-179.57 Diorite

Medium to fine grained, equigranular feldspar pheno crystals in a white sericitic matrix. Good recovery, possibly because no original gypsum in the core. Very finely disseminated and sparse chalcopyrite and pyrite, more disseminated hematite. Sparsely spaced semi-transparent quartz-sulphide veins and thin quartz-py/cpy stringers, a few thick (cm's) quartz-sericite-pyrite veins. Often (ex 148.8-155.5, 165.5-168.8, 177.5-179) thin, short subparallel wavy veins and whirls of very fine grained pyrite and perhaps some chalcopyrite in quartz, all with ragged boundaries . This pyrite occupies 6 % of core volume in that section. It is an early phenomenon cut by all other veins, but after secondary chlorite spots. This makes for an increase of the pyrite content with depth. From 158 to the end of the hole a few short sections with preserved chlorite.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	30	3-vein		60	none	none	none	(40)	2	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.5 .2	3 .5	none	2 .5	none	none		q-s	q-s-se	dol

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %		
69104	123-126	0.16	0.258				
05	126-129	0.23	0.493				
06	129-132	0.19	0.439				
07	132-135	0.24	0.425				
08	135-138	0.23	0.315				
09	138-141	0.25	0.480				
10	141-144	0.32	0.480				
11	144-147	0.29	0.418				
12	147-150	0.31	0.425				

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %		
13	150-153	0.22	0.315				
14	153-156	0.17	0.329				
15	156-159	0.25	0.425				
16	159-162	0.24	0.329				
17	162-165	0.21	0.457				
18	165-168	0.19	0.255				
19	168-171	0.28	0.389				
20	171-174	0.23	0.335				
21	174-177	0.19	0.288				
22	177-179.57	0.20	0.324				

179.57 END OF HOLE

RECOVERIES					RQD			
Blocks from	to	length	%		from	to	shorts	%
10.63	11.89	0.99	79		10.63	11.89	0.00	0
11.89	14.94	2.34	77		11.89	14.94	0.00	0
14.94	17.99	2.53	83		14.94	17.99	0.49	16
17.99	21.04	2.91	95		17.99	21.04	0.32	10
21.04	24.09	2.19	72		21.04	24.09	0.00	0
24.09	27.13	2.49	82		24.09	27.13	1.13	37
27.13	30.18	2.83	93		27.13	30.18	1.24	41
30.18	33.23	2.97	97		30.18	33.23	1.95	64
33.23	36.28	2.55	84		33.23	36.28	0.89	29
36.28	39.33	2.69	88		36.28	39.33	1.03	34
39.33	42.38	2.65	87		39.33	42.38	0.27	9
42.38	45.42	2.62	86		42.38	45.42	0.00	0
45.43	48.48	2.45	80		45.42	48.48	0.00	0
48.48	51.52	2.51	83		48.48	51.52	0.65	21
51.52	54.57	2.27	74		51.52	54.57	0.00	0
54.57	57.62	2.69	88		54.57	57.62	1.00	33
57.62	60.67	2.69	88		57.62	60.67	0.66	22
60.67	63.72	2.88	94		60.67	63.72	0.00	0
63.72	66.77	2.90	95		63.72	66.77	0.56	18
66.77	69.82	2.48	81		66.77	69.82	0.00	0
69.82	72.87	2.56	84		69.82	72.87	0.0	0
72.87	75.91	2.63	87		72.87	75.91	0.95	31
75.91	78.96	2.27	74		75.91	78.96	0.28	9
78.96	82.01	2.37	78		78.96	82.01	0.79	26
82.01	85.06	2.82	92		82.01	85.06	0.74	24
85.06	88.11	2.67	88		85.06	88.11	0.75	25
88.11	91.16	2.05	67		88.11	91.16	0.00	0
91.16	94.21	3.12	102		91.16	94.21	1.15	38
94.21	97.26	2.81	92		94.21	97.26	1.33	44
97.26	100.30	2.41	79		97.26	100.30	0.27	9
100.30	103.35	2.81	92		100.30	103.35	1.45	48
103.35	106.40	2.23	73		103.35	106.40	0.34	11
106.40	109.45	2.40	79		106.40	109.45	0.67	22
109.45	112.50	2.91	95		109.45	112.50	1.97	65
112.50	115.55	2.95	97		112.50	115.55	1.55	51
115.55	118.60	2.99	98		115.55	118.60	1.56	51
118.60	121.65	2.87	94		118.60	121.65	1.85	61
121.65	124.70	2.93	96		121.65	124.70	2.45	80
124.70	127.74	2.92	96		124.70	127.74	2.50	82
127.74	130.79	3.01	99		127.74	130.79	2.21	72
130.79	133.84	2.92	96		130.79	133.84	2.39	78
133.84	136.89	2.92	96		133.84	136.89	2.41	79
136.89	139.94	2.99	98		136.89	139.94	2.55	84
139.94	142.99	2.95	97		139.94	142.99	2.10	69
142.99	146.04	2.88	94		142.99	146.04	1.71	56
146.04	149.09	3.01	99		146.04	149.09	2.87	94
149.09	152.13	3.03	100		149.09	152.13	2.60	86
152.13	155.18	2.97	97		52.13	155.18	2.61	3
155.18	158.23	2.81	92		155.18	158.23	1.39	46
158.23	161.28	2.99	98		158.23	161.28	2.29	75
161.28	164.33	2.85	93		161.28	164.33	1.71	56
164.33	167.38	2.97	97		164.33	167.38	1.99	65
167.38	170.43	3.02	99		167.38	170.43	2.35	77
170.43	173.48	2.93	96		170.43	173.48	2.76	90
173.48	176.52	2.96	97		173.48	176.52	1.99	65
176.52	179.58	2.92	95		176.52	179.58	1.86	61
Overall recovery					Overall RQD			
10.63	179.58	151.48	90		10.63	179.58	68.58	41

Casing Pulled
Dip test at 175 m : 89 deg.

DRILL HOLE RECORD

FISH LAKE BC.

Claim:TK - 4
Dates:8 - 10 Sep. 1989
Contractor: Falcon Drilling ltd.

Coordinates:10500E 10050N
Length: 188.72 m
Azimuth/Dip: -90 deg.
Core Size: BGM
Elevation:

HOLE: 89 - 9
Logged by: A.M. Pauwels
Date:10 September 1989
Dip tests, RQD and recoveries on last page.

Objective: Collect core sam[les for metallurgical testing.

From To (m)	Description

0-18.29 Overburden

18.29 - 61.50 Diorite
No limonite coated section. Green, medium to fine grained, very broken up and poorly recovered. Light coloured feldspar phenocrystals, 1-2 mm, in a dark green matrix. The matrix is a mixture of chlorite feldspar and quartz and has a spotty/blotchy appearance. Spots are secondary chlorite with clusters of pyrite, magnetite and rare chalcopyrite. Veins are all thin quartz-py stringers, carbonate, quartz-chlorite stringers, veins are less than 2 % of core mass. Short bleached section from 32 to 33 m, centred on a pyrite-quartz (7 cm) Vein. More bleaching in the bottom of the interval. Fine grained section from 25-32 m.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	40	1-vein		55	none	(25)		?	1	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	tr-.2	3 1	none	tr	2	none		q-py	carb	

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %
69123	18.29-21	0.03	0.057		
24	21-24	0.05	0.068		
25	24-27	0.04	0.099		
26	27-30	0.04	0.091		
27	30-33	0.06	0.091		
28	33-36	0.03	0.047		
29	36-39	0.05	0.389		
30	39-42	0.08	0.162		
31	42-45	0.26	0.411		
32	45-48	0.17	0.258		
33	48-51	0.06	0.110		
34	51-54	0.19	0.228		
35	54-57	0.09	0.091		
36	57-60	0.17	0.173		

61.5 - 67.8 Diorite
The texture is much as above but bleached.
Rare qz-py-cpy veinlets. Very fine grained disseminated hematite, small clusters of pyrite. Dolomite vein breccia at 62.7- 63.7 m.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	40 1	tr-vein		53					2	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	tr	3 1	none	2 .3	none	none		q-s	dol	

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %		
69137	60-63	0.16	0.203				
38	63-66	0.13	0.225				
39	66-69	0.09	0.192				

67.8 - 70.25 Diorite
Green medium grained. The green diorite is much more broken up and poorly recovered. See above for description.

70.25 - 75.9 Diorite
Bleached see above. From 71.8 to 72.9, many seams (2 mm) of fine grained pyrite.

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %		
69140	69-72	0.08	0.288				
41	72-75	0.10	0.255				

75.9 - 121.2 Diorite
Green, medium grained and fine grained sections. Very broken up, blotchy appearance, disseminated magnetite. A few quartz-py-cpy stringers, calcite stringers. Most pyrite in veinlets, a little, very fine grained, disseminated chalcopyrite. Includes short bleached sections from 100.9-102.2, 105-105.7, 115.8-117.4, 118.9-118.7, 120.8-121.2 m. Chalcopyrite starts to be more plentiful, disseminated in the matrix, from 90 m down.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	45	1-v		50	none	(30)	none			none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	tr	1 2	none	tr	2 .5	none		calc.	q-py	

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %		
69142	75-78	0.16	0.151				
43	78-81	0.21	0.263				
44	81-84	0.04	0.044				
45	84-87	0.05	0.044				
46	87-90		0.055				
47	90-93	0.06	0.091				
48	93-96	0.12	0.110				
49	96-99	0.06	0.091				
50	99-102	0.04	0.060				
51	102-105	0.09	0.165				
52	105-108	0.09	0.111				
53	108-111	0.10	0.121				
54	111-114	0.08	0.121				
55	114-117	0.14	0.247				
56	117-120	0.09	0.082				
57	120-123	0.17	0.217				

121.2 - 161.4 Quartz Feldspar Porphyry
Medium to coarse grained. Sericitized, feldspars in a quartzo-sericitic matrix, abundant but very variable amounts of disseminated pyrite rare chalcopyrite. In less sericitized sections, small patches of chlorite/hematite or magnetite, are present. Few veins except for thick, quartz-sericite-pyrite, a little carbonate veining and rare, thin, quartz-pyrite-chalcopyrite stringers.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	35 5	1-v		55	none	3	none		tr	none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.4 .3	3 1	none	2 .5	tr	none		q-se-s	q-sul	

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %		
69158	123-126	0.19	1.948				
59	126-129	0.11	0.335				
60	129-132	0.07	0.239				
61	132-135	0.08	0.121				
62	135-138	0.11	0.187				
63	138-141	0.11	0.343				
64	141-144	0.08	0.154				
65	144-147	0.09	0.272				
66	147-150	0.20	0.425				
67	150-153	0.12	0.379				
68	153-156	0.15	0.165				
69	156-159	0.19	0.741				
70	159-162	0.15	2.194				

161.4- 188.72 Diorite
Medium to fine grained. Sericitized to 182.9 and from 187.8 m to the end. Green coloured from 182.9-187.8, Several thick, quartz-py-sericite, cpy veins at a low angle to the core axis. Disseminated py, magnetite and cpy clustering with chlorite in the green sections and with sericite-quartz clumps in the bleached sections. Thin quartz-py-cpy veinlets.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	45 2	2-v		50		10				none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1 .8	3		1 .3	.5 .3	none		py-q-cpy		

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %		
69171	162-165	0.11	0.219				
72	165-168	0.25	0.617				
73	168-171	0.31	0.891				
74	171-174	0.27	0.362				
75	174-177	0.24	0.302				
76	177-180	0.31	0.375				
77	180-183	0.31	0.389				
78	183-186	0.20	0.686				
79	186-188.72	0.45	8.393				

188.72 END OF HOLE

RECOVERIES				RQD			
Blocks							
from	to	length	%	from	to	shorts	%
18.29	21.04	0.77	28	18.29	21.04	0.00	0
21.04	24.09	1.89	62	21.04	24.09	0.00	0
24.09	27.13	1.89	62	24.09	27.13	0.15	5
27.13	30.18	2.52	83	27.13	30.18	0.46	15
30.18	33.23	1.89	62	30.18	33.23	0.00	0
33.23	36.28	1.23	40	33.23	36.28	0.00	0
36.28	39.33	1.70	56	36.28	39.33	0.00	0
39.33	42.38	2.25	74	39.33	42.38	0.00	0
42.38	45.42	2.01	66	42.38	45.42	0.00	0
45.43	48.48	2.23	73	45.42	48.48	0.10	3
48.48	51.52	2.47	81	48.48	51.52	0.13	4
51.52	54.57	2.53	83	51.52	54.57	0.77	25
54.57	57.62	2.82	92	54.57	57.62	0.65	21
57.62	60.67	2.91	95	57.62	60.67	1.93	63
60.67	63.72	3.03	99	60.67	63.72	2.47	81
63.72	66.77	2.97	97	63.72	66.77	2.44	80
66.77	69.82	2.80	92	66.77	69.82	0.88	29
69.82	72.87	3.09	101	69.82	72.87	2.32	76
72.87	75.91	2.81	92	72.87	75.91	2.28	75
75.91	78.96	2.48	81	75.91	78.96	0.00	0
78.96	82.01	3.01	99	78.96	82.01	0.00	0
82.01	85.06	2.49	82	82.01	85.06	0.00	0
85.06	88.11	2.51	82	85.06	88.11	0.64	21
88.11	91.16	2.65	87	88.11	91.16	0.64	21
91.16	94.21	2.52	83	91.16	94.21	0.13	4
94.21	97.26	2.85	93	94.21	97.26	.4	13
97.26	100.30	2.61	86	97.26	100.30	.3	10
100.30	103.35	3.05	100	100.30	103.35	2.51	82
103.35	106.40	2.92	96	103.35	106.40	1.20	39
106.40	109.45	2.73	90	106.40	109.45	0.00	0
109.45	112.50	2.89	95	109.45	112.50	.64	21
112.50	115.55	2.61	86	112.50	115.55	0.46	15
115.55	118.60	2.86	94	115.55	118.60	1.28	42
118.60	121.65	2.92	96	118.60	121.65	0.88	29
121.65	124.70	2.56	84	121.65	124.70	0.57	19
124.70	127.74	2.65	87	124.70	127.74	0.99	33
127.74	130.79	2.77	91	127.74	130.79	0.52	17
130.79	133.84	2.49	82	130.79	133.84	2.04	67
133.84	136.89	2.82	92	133.84	136.89	0.79	26
136.89	139.94	2.92	96	136.89	139.94	1.15	38
139.94	142.99	2.95	97	139.94	142.99	1.12	37
142.99	146.04	2.49	82	142.99	146.04	0.62	20
146.04	149.09	2.66	87	146.04	149.09	.51	17
149.09	152.13	2.76	91	149.09	152.13	0.67	22
152.13	155.18	2.39	78	52.13	155.18	0.34	0
155.18	158.23	2.40	79	155.18	158.23	0.76	25
158.23	161.28	2.62	86	158.23	161.28	1.10	36
161.28	164.33	2.60	85	161.28	164.33	0.33	11
164.33	167.38	2.62	86	164.33	167.38	0.25	8
167.38	170.43	2.63	86	167.38	170.43	0.00	0
170.43	173.48	2.39	78	170.43	173.48	0.00	0
173.48	176.52	2.72	89	173.48	176.52	0.40	13
176.52	179.52	2.83	94	176.52	179.52	0.66	22
179.57	182.62	3.10	102	179.57	182.62	1.71	56
182.62	185.67	2.80	92	182.62	185.67	1.47	48
185.67	188.72	2.92	96	185.67	188.72	2.62	86
Overall Recovery				Overall RQD			
18.29	188.72	144.00	84	18.29	188.72	42.28	25

Casing pulled
Dip test at 185 m : 89 deg.

DRILL HOLE RECORD

FISH LAKE BC.

Claim:TK - 6
Fis 2 Placer claim
Dates:14 - 16 Sep. 1989
Contractor: Falcon Drilling ltd.

Coordinates:10200E 10000N
Length: 152.13 m
Azimuth/Dip: -90 deg.
Core Size: BGDM
Elevation:

HOLE: 89 - 10
Logged by: A.M. Pauwels
Date:21 September 1989
Dip tests, RQD and recoveries on last page.

Objective:Collect samples for metallurgical testing

From To (m)	Description

0 - 49.00 Overburden

Overburden cored from 20 m on, recovery very poor. Judging from drill cuttings the top 20 m is mostly clay. Below 20 m :clay, silt and gravel. Many basalt boulders in the last 3 metres.

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %		
69280	22.60-26	0.01	0.060				
281	26-29	0.01	0.069				
282	29-32	0.01	0.069				
283	32-35	<0.01	0.069				
284	35-38	<0.01	0.088				
285	38-41	0.01	0.055				
286	41-44	0.01	0.060				
287	44-47	0.01	0.069				
288	47-50	0.17	0.296				

49 - 97.5 Sediments or Tuff

Very fine grained, alternating sections of greenish to dark and creamy white, sericitized. Sections 2 to 4 m long. The dark coloured section have 1 to 10 mm spots of secondary biotite /chlorite, and have abundant disseminated chalcopyrite. Some thin quartz-chalcopyrite veins. Light coloured sections have disseminated hematite, a few hematite-qz veinlets, some qtz-chalcopyrite veinlets and small clusters of sericite-quartz with chalcopyrite. Occasionally, vuggy dolomite veins, many from 60 to 63 m.Hematite, occasionally forms clusters and patches up to 2 cm wide. The size of secondary biotite/chlorite spots increases with depth and reaches up to 2 cm diameter at 80 m depth. Clear quartz with finely disseminated chalcopyrite or pyrite or rarely bornite are more abundant in the sericitized sections with depth.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		2				25	tr		1	
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1	1	tr	2		none		qz-s	dol	

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %		
69289	50-53	0.39	0.741				
290	53-56	0.33	0.960				
291	56-59	0.27	0.549				
292	59-62	0.33	1.015				
293	62-65	0.23	0.315				
294	65-68	0.24	0.576				
295	68-71	0.26	0.617				
296	71-74	0.32	0.734				
297	74-77	0.20	0.507				
298	77-80	0.28	0.645				
299	80-83	0.21	0.562				
300	83-86	0.25	0.954				

	Au g/t	Ag g/t	Mo %		
.18	0.617				
.20	0.411				
.24	0.411				
.18	0.878				
.08	0.187				
.22	0.453				
.32	0.891				
.28	0.757				

k green, no small spots and blotches of as in the section above, hence probably n andesite. Secondary biotite and or oughout the section, disseminated irregular networks of secondary quartz. bornite with clusters of secondary artz veins with finely disseminated tite.

id.	chlor.	biot.	seric.	carb.	gyps.
ag	mo		veins	veins	veins

%	Au g/t	Ag g/t	Mo %		
.24	0.699				
.36	0.872				
.25	0.795				
.27	0.225				
.33	0.768				
.32	0.850				
.32	0.960				
.34	1.097				
.37	1.015				
.29	0.905				
.29	0.960				
.19	0.603				
.32	1.481				
.15	0.351				

g.

RQD

(	from	to	shorts	%	
	80	50.00	53.00	0.52	17
	20	53.00	56.00	0.42	14
	13	56.00	59.00	0.18	6
	73	59.00	62.00	0.66	22
	0	62.00	65.00	1.26	42
	40	65.00	68.00	0.20	7
	45	68.00	71.00	1.55	52
	20	71.00	74.00	1.02	34
	23	74.00	77.00	0.88	29
	60	77.00	80.00	0.76	25
	97	80.00	83.00	1.39	46
	100	83.00	86.00	0.51	17
	77	86.00	89.00	1.23	41
	100	89.00	92.00	1.28	43
	97	92.00	95.00	2.05	68
	100	95.00	98.00	1.65	55
	97	98.00	101.00	1.38	46
	97	101.00	104.00	1.85	62
	97	104.00	107.00	0.25	8
	100	107.00	110.00	0.20	7
	97	110.00	113.00	0.00	0
	100	113.00	116.00	0.28	9
	100	116.00	119.00	0.10	3
	97	119.00	122.00	0.16	5
	97	122.00	125.00	0.11	4
	100	125.00	128.00	0.00	0
	100	128.00	131.00	0.60	20
	97	131.00	134.00	0.30	10
	97	134.00	137.00	0.10	3
	100	137.00	140.00	0.20	7
	100	140.00	143.00	0.00	0
	97	143.00	146.00	0.00	0
	93	146.00	149.10	0.00	0
	100	149.10	152.10	0.00	0
	100				
	100				
	97				
	87				
	100				
	94				
	100				
	100				
	100				

Overall RQD

97	50	152.10	21.09	21

DRILL HOLE RECORD

FISH LAKE BC.

Claim:TK - 4
Dates:11-12 Sep. 1989
Contractor: Falcon Drilling ltd.

Coordinates:10400E 10000N
Length:176.52 m
Azimuth/Dip: -90 deg.
Core Size: BGM
Elevation:

HOLE: 89 - 11
Logged by: A.M. Pauwels
Date:12 September 1989
Dip tests, RQD and recoveries on last page.

Objective: Collect core samples for metallurgical testing.

From	To (m)	Description

0 - 7.00 Overburden
Casing to 9.1 m.

7.00- 66.00 Diorite
Very weathered, limonite staining and malachite to 16 m.
Green, fine grained, equigranular. Spots and patches of secondary chlorite, pyrite and rare chalcopyrite. Some sections have abundant disseminated magnetite, also short magnetite stringers, many thin ch-se-py veins, thicker py-q-sericite veins. Most of the matrix appears sericitized.
Bleached sections from 19.2-22.5, 47.5-59, 61.1-64 m. Bleached sections have disseminated hematite, much disseminated chalcopyrite in patches and veinlets of grey sericite (probably after chlorite). Veining and mineralization increase with depth. Also several irregular, opaque white dolomite veins and quartz veins with coarse pyrite and a little cpy and molybdenite.
Fault gouge and clay at 28.0, 27, 30m. Grey clay over 3 cm at 36.2 m.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	30 1			35		30	none			none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.7 .5	4 1		tr	1 1	tr			q-sul	

Sample	Id	From	To	Cu %	Au g/t	Ag g/t	Mo %		
69180		7-10		0.08	0.576				
81		10-13		0.18	0.296				
82		13-16		0.23	0.487				
83		16-19		0.25	0.521				
84		19-22		0.22	0.494				
85		22-25		0.15	0.197				
86		25-28		0.16	0.288				
87		28-31		0.19	0.255				
88		31-34		0.35	0.324				
89		34-37		0.18	0.461				
90		37-40		0.25	0.411				
91		40-43		0.15	0.208				
92		43-46		0.28	0.425				
93		46-49		0.22	0.288				
94		49-52		0.23	3.154				
95		52-55		0.24	0.411				
96		55-58		0.40	0.631				
97		58-61		0.29	0.466				
98		61-64		0.35	0.466				
99		64-67		0.27	0.217				

66- 98.7 Diorite
Medium to fine grained, equigranular, texture much as above. Most of this interval is mostly bleached, more veining than above, Disseminated very fine grained pyrite, hematite and chalcopyrite, Veins are quartz-sericite-py/cpy, often several cm wide. Some very

fine grained , possibly sediments or tuffs, all very sericitized from 91 to 97, top contact concealed by abundant veining. Green sections, biggest at 84.8 to 88.00 m.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	40	4-v				tr	none	(30)	tr	
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1 .5	2	none	2		.1		q-se-s	d	

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %		
69200	67-70	0.32	0.645				
01	70-73	0.32	0.480				
02	73-76	0.29	0.864				
03	76-79	0.13	0.225				
04	79-82	0.12	0.143				
05	82-85	0.25	0.302				
06	85-88	0.19	0.288				
07	88-91	0.17	0.247				
08	91-94	0.25	0.543				
09	94-97	0.26	0.535				

95.7 - 123.4 Diorite

Green, medium to fine grained, very broken. Several .5 cm chalco-q. veins Disseminated very fine grained pyrite and chalcopyrite. Many thin chlorite-py veinlets. From 118 m on bleached medium grained diorite, disseminated pyrite, chalcopyrite and hematite. Dolomite veining at 420.

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %		
69210	97-100	0.32	0.741				
11	100-103	0.26	0.543				
12	103-106	0.43	0.768				
13	106-109	0.20	0.439				
14	109-112	0.23	0.542				
15	112-115	0.48	2.085				
16	115-118	0.28	0.603				
17	118-121	0.28	1.015				
18	121-124	0.19	0.343				

123.4 - 173.6 Sediments or Tuffs

Very altered, very fine grained, riddled with thin veinlets. Colour varies from greenish to cream white. The top section, to around 145 m has up to 50 % , 1 to 2 mm, round spots of secondary chlorite, many with very fine specs of chalcopyrite and sparse pyrite and hematite. Veins are chlorite/sericite-py-chalcopyrite. A few later thin cpy-quartz veins. Dark green secondary biotite flakes with chalcopyrite at 130-40. A few thick py-qz-ser veins (late) and a few vuggy dolomite seams. At 146 m finely disseminated pyrite, appears to be relic bedding (60 deg. to core axis), closer near the top relic bedding is at 85 deg. to core axis, and at 160 m, 75 deg. to core axis. After 145 the spots diminish and sometimes disappear and veining is then the most visible alteration feature. Greenish and creamy white sections alternate over 1 to 3 m lengths.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		1-vein		80	tr	10	tr	X	dol	tr
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1 .3	1		.5				ser-sul	chl-s	qz-s

Sample Id	From To	Cu %	Au g/t	Ag ppm	Mo ppm		
69219	124-127	0.27	0.576				
69220	127-130	0.13	0.226				
21	130-133	0.13	0.263				
22	133-136	0.38	0.741				
23	136-139	0.20	0.315				
24	139-142	0.27	0.576				
25	142-145	0.20	0.357				
26	145-148	0.22	0.442				
27	148-151	0.23	0.439				
28	151-154	0.23	0.439				
29	154-157	0.31	0.439				
30	157-160	0.25	0.507				
31	160-163	0.17	0.315				
32	163-166	0.21	0.425				
33	166-169	0.19	0.343				
69234	169-172	0.34	0.549				

173.6-176.52 Quartz Feldspar Porphyry
Light coloured, 2 mm quartz eyes, 1 to 4 mm feldspar phenocrystals in fine grained. Disseminated chalcopyrite/pyrite in small, 1 mm clusters and chalcopyrite/pyrite along thin fractures.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm					none					
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1 .3	1 .3	none					py-cpy		

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo %		
69235	172-175	0.23	0.411				
36	175-176.5	0.27	0.603				

176.52 END OF HOLE

RECOVERIES

RQD

Blocks

from	to	length	%	from	to	shorts	%
11.89	14.93	2.30	76	11.89	14.93	0.22	7
14.93	17.99	2.41	79	14.93	17.99	.17	6
17.99	21.04	2.45	80	17.99	21.04	0.21	7
21.04	24.09	2.33	76	21.04	24.09	0.00	0
24.09	27.13	2.11	69	24.09	27.13	0.00	0
27.13	30.18	2.68	88	27.13	30.18	0.00	0
30.18	33.23	1.52	50	30.18	33.23	0.00	0
33.23	36.28	2.50	82	33.23	36.28	0.00	0
36.28	39.33	2.52	83	36.28	39.33	0.00	0
39.33	42.38	1.96	64	39.33	42.38	0.00	0
42.38	45.42	2.11	69	42.38	45.42	0.00	0
45.43	48.48	2.34	77	45.42	48.48	0.52	17
48.48	51.52	2.47	81	48.48	51.52	0.89	29
51.52	54.57	2.50	82	51.52	54.57	0.99	32
54.57	57.62	2.98	98	54.57	57.62	0.65	21
57.62	60.67	2.74	90	57.62	60.67	0.93	30
60.67	63.72	2.94	96	60.67	63.72	0.47	15
63.72	66.77	2.80	92	63.72	66.77	0.80	26
66.77	69.82	2.77	91	66.77	69.82	0.75	25
69.82	72.87	2.49	82	69.82	72.87	0.20	7
72.87	75.91	2.69	88	72.87	75.91	1.00	33
75.91	78.96	2.80	92	75.91	78.96	0.89	29
78.96	82.01	2.90	95	78.96	82.01	1.39	46
82.01	85.06	2.49	82	82.01	85.06	1.22	40
85.06	88.11	2.75	90	85.06	88.11	00.15	5
88.11	91.16	2.72	89	88.11	91.16	01.45	48
91.16	94.21	2.52	83	91.16	94.21	0.13	4
94.21	97.26	2.92	96	94.21	97.26	2.54	83
97.26	100.30	2.66	88	97.26	100.30	0.49	16
100.30	103.35	2.60	85	100.30	103.35	0.00	0
103.35	106.40	2.86	94	103.35	106.40	1.80	59
106.40	109.45	2.80	92	106.40	109.45	0.67	22
109.45	112.50	2.75	90	109.45	112.50	0.45	15
112.50	115.55	2.89	95	112.00	115.00	0.24	8
115.55	118.60	2.91	95	115.00	118.00	0.70	23
118.60	121.65	2.90	95	118.00	121.00	1.90	63
121.65	124.70	2.90	95	121.00	124.00	1.24	41
124.70	127.74	2.70	89	124.00	127.00	0.34	11
127.74	130.79	2.90	95	127.00	130.00	0.40	13
130.79	133.84	2.90	95	130.00	133.00	0.45	15
133.84	136.89	3.00	98	133.00	136.00	1.26	42
136.89	139.94	3.00	98	136.00	139.00	2.04	68
139.94	142.99	2.80	92	139.00	142.00	1.70	57
142.99	146.04	3.00	98	142.00	145.00	0.90	30
146.04	149.09	3.00	98	145.00	148.00	1.60	53
149.09	152.13	3.00	99	148.00	151.00	2.00	67
152.13	155.18	3.00	98	151.00	154.00	0.80	27
155.18	158.23	3.00	98	154.00	157.00	2.88	96
158.23	161.28	3.00	98	157.00	160.00	2.00	67
161.28	164.33	3.00	98	160.00	164.33	2.70	62
Overall Recovery				Overall RQD			
11.89	164.33	134.28	88%	11.89	164.33	42.13	28%

Casing Pulled
Dip test at 160 m : 90 deg.

DRILL HOLE RECORD

FISH LAKE BC.

Claim:TK - 4
Placer Claim Fis 2
Dates:12 - 14 Sep. 1989
Contractor: Falcon Drilling ltd.

Coordinates:10300E 9900N
Length: 158.23
Azimuth/Dip: -90 deg.
Core Size: BGDM
Elevation:

HOLE: 89 - 12
Logged by: A.M. Pauwels
Date: 21 September 1989
Dip tests, RQD and recoveries on last page.

Objective: Collect core samples for metallurgical testing.

From To (m)	Description

0 - 40

Overburden
Silt and gravel. Small amounts of gravel and silt cored from 30 -40. Boulders composed of basalt, granite and andesite in the last 4 m.

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo g/t		
69237	30 - 33	0.01	0.071				
38	33 - 36	0.01	0.060				
39	36 - 39	0.01	0.060				
40	39 - 42	0.15	0.395				

40 - 57

No visible oxidation. Core is very broken up, all in 1 to 5 cm pieces.
Greywacke, and/or tuff. Very altered . Variable grain sizes, difficult to distinguish between alteration effects and original texture. Grain sizes vary from very fine to subangular coarse in fine matrix. Fine grained biotite, with some quartz and very fine disseminated cpy replaces many of the larger subangular frags. he shape of these grains is the only indication of original clastic origin, in other fine grained rocks secondary biotite is developed as subrounded patches. The remainder of the rock is fine grained green to light coloured and is probably all sericite and chlorite. Veining is ubiquitous and occupies at most 5 % of the rock . Most obvious are late quartz -pyrite veins, also thin quartz-cpy-py veins and very thin clear quartz stringers.
In the bottom 4 m , very fine grained sediments, in part pervasively bleached.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		3				35	5	60		none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	.5	1	none	tr	1	none		q-py	q-cpy	q

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo g/t		
41	42 - 45	0.13	0.219				
42	45 - 48	0.23	0.713				
43	48 - 51	0.19	0.329				
44	51 - 54	0.17	0.315				
69245	54 - 57	0.16	0.208				

57 - 82.5

Medium to coarse grained Feldspar porphyry.
Intrusive in above . Same texture as the common QFP dykes but no quartz eyes. Greenish. White feldspar pheno's in a quartzo-feldspar matrix. Small ghosts of hornblende replaced by fine grained biotite or chlorite. Rare magnetite grains. Finely disseminated chalcopyrite and pyrite with mafics. Patches of pervasive sericitization in the bottom two m.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm	55 3	25				7	7	10?		none
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1 .5	1 .5	none	none	1 .5	none		chl		

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo g/t		
69246	57 - 60	0.24	0.343				
47	60 - 63	0.23	0.302				
48	63 - 66	0.26	0.217				
49	66 - 79	0.23	0.617				
50	69 - 72	0.19	0.411				
51	72 - 75	0.18	0.274				
52	75 - 78	0.17	0.425				

82.5 - 111 Greywacke

Very altered. Medium to fine grained. Grain size varies suggesting a medium to fine clastic texture. Mostly sericite with some relic replaced (chlorite) grains. Light coloured sericitic matrix. Rare disseminated pyrite. A few thin pyrite-quartz veins, a few carbonate veins . Veins are more abundant in a few very fine grained sections. here, chlorite-cpy-py veins and quartz-py-cpy veins.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm		2			none	20		78	tr	
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	tr	tr	none	none	none	none				

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo g/t		
69253	78 - 81	0.18	0.351				
54	81 - 84	0.28	0.466				
55	84 - 87	0.27	0.466				
56	87 - 90	0.27	0.351				
57	90 - 93	0.30	0.379				
58	93 - 96	0.35	0.933				
59	96 - 99	0.28	0.329				
60	99 - 102	0.27	0.329				
61	102 - 105	0.24	0.315				
62	105 - 108	0.18	0.263				

111- 158.2 Andesite

Boundary with above is gradual(alteration). It is possible that this could be a medium grained greywacke to 122 m. After 122 more clearly an andesitic texture.

Dark green, fine grained, even textured, abundant secondary chlorite and/or biotite, no pervasive sericitization as above. Disseminated fine grained chalcopyrite, pyrite and magnetite. Gypsum veining starts at 131 m. Rock becomes finer grained and lighter in colour past 130 m, with mafic minerals, quartz and very fine grained cpy in rounded patches. Also much less disseminated sulphides in the bottom 30 m.

Mineral	feld.	quartz		matrix	epid.	chlor.	biot.	seric.	carb.	gyps.
% mm										3
Mineral	cpy	pyr	bor	hem	mag	mo		veins	veins	veins
% mm	1	1	none		2	none				

Sample Id	From To	Cu %	Au g/t	Ag g/t	Mo g/t		
69263	108 - 111	0.20	0.324				
64	111 - 114	0.24	0.288				
65	114 - 117	0.25	0.562				
66	117 - 120	0.50	0.672				
67	120 - 123	0.35	0.768				
68	123 - 126	0.51	0.905				
69	126 - 129	0.33	0.598				
70	129 - 132	0.24	0.439				
71	132 - 135	0.18	0.315				
72	135 - 138	0.20	0.411				
69273	138 - 141	0.28	0.411				
74	141 - 144	0.37	0.562				
75	144 - 147	0.31	0.594				
76	147 - 150	0.29	0.576				
77	150 - 153	0.31	0.878				
78	153 - 156	0.23	0.296				
79	156 - 158.20	0.37	0.603				

158.2 END OF HOLE

RECOVERIES

Blocks

from	to	length	%
30.20	33.20	0.30	10
33.20	36.20	0.30	10
36.20	39.30	0.60	19
39.30	40.20	0.40	44
40.20	42.40	1.40	64
42.40	45.40	1.70	57
45.40	48.50	1.90	61
48.50	51.50	2.80	93
51.50	54.60	2.70	87
54.60	57.60	2.50	83
57.60	60.70	2.60	84
60.70	63.70	2.70	90
63.70	66.80	2.80	90
66.80	72.90	2.50	41
72.90	75.90	2.50	83
75.90	79.00	2.40	77
79.00	82.00	2.60	87
82.00	85.10	2.40	77
85.10	88.10	2.70	90
88.10	91.10	2.60	87
91.10	94.20	2.70	87
94.20	97.30	2.80	90
97.30	101.30	2.80	70
101.30	103.35	2.00	98
103.35	106.40	2.60	85
106.40	109.40	0.60	20
109.40	112.50	2.90	94
112.50	115.50	2.70	90
115.50	118.60	2.80	90
118.60	121.60	2.70	90
121.60	124.70	3.10	100
124.70	127.70	3.00	100
127.70	130.80	3.00	97
130.80	133.80	3.00	100
133.80	136.90	3.00	97
136.90	139.90	2.90	97
139.90	143.00	2.90	94
143.00	146.00	2.90	97
146.00	149.10	3.00	97
149.10	152.10	3.00	100
152.10	155.20	3.00	97
155.20	158.20	3.00	100

Overall Recovery

30.20	158.20	100.80	79

Casing pulled

No Dip tests

RQD

from	to	shorts	%
30.00	33.00	0.00	0
33.00	36.00	0.00	0
36.00	39.00	0.00	0
39.00	42.00	0.00	0
42.00	45.00	0.00	0
45.00	48.00	0.00	0
48.00	51.00	0.27	9
51.00	54.00	0.12	4
54.00	57.00	0.00	0
57.00	60.00	0.00	0
60.00	63.00	0.10	3
63.00	66.00	0.00	0
66.00	69.00	0.00	0
69.00	72.00	0.00	0
72.00	75.00	0.00	0
75.00	78.00	0.10	3
78.00	81.00	0.00	0
81.00	84.00	0.00	0
84.00	87.00	0.00	0
87.00	90.00	0.20	7
90.00	93.00	0.15	5
93.00	96.00	0.15	5
96.00	99.00	0.34	11
99.00	102.00	0.10	3
102.00	105.00	0.00	0
105.00	108.00	0.00	0
108.00	111.00	0.00	0
111.00	114.00	0.20	7
114.00	117.00	0.00	0
117.00	120.00	0.00	0
120.00	123.00	1.17	39
123.00	126.00	2.44	81
126.00	129.00	2.83	94
129.00	132.00	2.20	73
132.00	135.00	2.85	95
135.00	138.00	2.25	75
138.00	141.00	2.57	86
141.00	144.00	1.84	61
144.00	147.00	1.67	56
147.00	150.00	1.40	47
150.00	153.00	1.94	65
153.00	156.00	1.04	35
156.00	158.20	1.29	59

Overall RQD

30.20	158.20	27.22	21

APPENDIX II

Expenditures

Drilling, access, camp; 1984 m as per invoice	184,901.55
Planning, supervision, logging, reporting	
A.M. Pauwels 25 days @ $ 339.00	8,475.00
Sampling, logistics, drafting	
A. Roberts 30 days @ $ 279.29	8,378.70
Assays for Copper, Gold , 579 samples @ $ 19.75	11,435.25
Truck Rental, fuel, 30 days	1,550.00
Total	214,740.50

Distribution of expenditures

1. FIS 2 Overburden drilling

Cost per meter drilled

$$\frac{\text{Total cost - assay costs}}{1984.11} = \$\ 102.46$$

Overburden drilling Holes 89-10, 12, 49 + 40 m = 89 m

Drilling costs 89 m @ $ 102.46/m	9,118.94
Assay costs , 13 samples (89-10) for Copper and Gold @ $ 19.75 per sample	256.75
Total	9,375.69

2. Diamond drilling

Cost per meter drilled

$$\frac{\text{Total cost - overburden drilling on Fis 2}}{1984.11 - 89} = \$\ 108.3656$$

TK 6 before september 11, 1989

Holes 89-1 to 8 1,308.51 m
Total $ 141,797.47

TK 6 After september 11, 1989

Hole 89-10 (core drilling) 103.13 m
Total $ 11,175.74

TK 4 (september 8-14, 1989)

Holes 89-9, 11 and 89-12 (core drilling) 483.47 m
Total $ 52,391.52

APPENDIX III

STATEMENT OF QUALIFICATIONS

I, ANDRE M. PAUWELS, 4900 Mariposa Court, Richmond, B.C. hereby declare that I:

1. Graduated from State University of Ghent, Belgium with a B.Sc., Geology in July, 1970.

2. Have been engaged in mineral exploration as a Geologist:

   - in Ontario from September, 1970 until April, 1972 with Union Miniere Explorations and Mining Corporation Limited.

   - in British Columbia and Yukon Territories since May, 1972 until December, 1980 with Union Miniere Exploration and Mining Corporation Limited.

   - with Bethlehem Copper Corporation from January until May 1, 1981.

   - presently with Cominco Limited since May 1, 1981.

3. Was engaged from 1970 until present in numerous geological, geochemical, geophysical and drilling programmes for mineral exploration in Ontario, British Columbia, the Yukon Territory, Northwest Territories, Arizona and Peru.

4. Am a Fellow of the Geological Association of Canada

DATE: November 9, 1989

A.M. Pauwels
Senior Geologist

TK 10 | TK 35 | TK 34

TK 9 | TK 8 | TK 33 | TK 32

TK 7 | TK 6 | TK 31

TK 22 | TK 5 | TK 4 | TK 29

TK 20 | TK 3 | TK 2

TK 19 | TK 18 | TK 1

TK 17 | TK 16

PC 82-13 PC82-4 PC82-3 PC 82-1 PC82-2 PC 82-19 FL 79-14

10,600 N

Q73-7 PH69-1 PH69-3 PH69-4 PH69-2

PC 82-16 TK 9,10 Q73-8 PD6 FL 81-16 FL 81-14 TK 33,34

10,400 N

BCC 2 FR. F89-1 Q73-9 Q74-5 PD-8

Q73-13 Q81-13 PC 82-14 FL 81-8 F89-2 F89-3 FL 81-11 FL 81-31

PH 69-12

T72-3 T69-6 Q74-8 Q81-8

10,200 N

Q73-2 F89-4 FL 81-6 F89-5 FL 81-9 N70-1 FL 81-19 PH 69-11

N70-2 Q74-9 Q81-9 FL 81-2

Q74-1 PH69-8 PH 69-10

TK 7,8 FL 81-17 F89-6 F89-7 FL 81-4 F89-8

Q73-3 Q74-3 T69-2

BCC 3 FR. T69-1 Q74-7

PC82-15 FL 81-13 FL 81-1 PH69-9 F89-9

Q73-12 Q81-12 Q74-4

F84-5 Q73-11 F84-4 F84-3 Q73-10 F89-11 Q73-16

10,000 N

Q73-1 F89-10 F84-2 F84-1

T69-5 T69-4

Q74-2 Q81-2 PH69-5 FL 81-3 FL 80-16

N70-3 Q74-6 FL 81-7

FL 81-12 F89-12 FL 81-5 T69-3

FL 81-10 CORE SHACK

Q73-4 Q73-14 Q81-14 FL 81-23 FL 81-24 PH 69-7

T72-1 TK 5,6

FL 81-18 FL 81-15

9800 N

Q73-6

10,500 E

FIS 2 (Placer)

FISH CREEK

10,100 E 10,200 E 10,400 E

FL 81-20

10,300 E

9600 N

10,000 E

FIS 1 (Placer)

FL 81-30 TK 3,4

BJ 13 FL 80-37 B.C.D.F Recreation Site BJ 14 FISH LAKE

0 100 200 metres

LEGEND

Series	Hole Type	Company	Year(s)
PD-	Diamond	Phelps-Dodge	1963,64
PH69-	Percussion	Taseko Mines	1969
T69-, T72-	Diamond	"	1969,72
T70-	"	Nittestsu	1970
Q73-, Q74-	"	Quintana	1973,74
FL79-, FL80-	Percussion	Bethlehem	1979,80
FL81-	Diamond	"	1981
Q81-	"	" deepenings of '73, '74 holes	1981
PC82-	Percussion	Cominco	1982
F82-	Diamond	"	1982
F84-	"	"	1984
F89-	"	"	1989

All holes surveyed except PD, PC82-, F82-, F84-, and F89- holes.

- Vertical drill hole collar
- Inclined drill hole, horizontal projection
- Claim Post (Initial post or legal corner post)
- Drill access roads
- Cut lines (1980-82)
- Claim boundary
- Placer claim boundary

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,378

N.T.S. 92-O/5

FISH LAKE PROPERTY

Cominco

Drawn by: APR	Traced by:
Revised by / Date	Revised by / Date

DRILL HOLE LOCATIONS
CLAIM BOUNDARIES

Scale: 1:2500 | Date: Sept. 1989 | Plate: 3

FORM 210 0660

NCI - 117 - C.L.

123°40'

123°30'
51°30'

1989 Campsite

Area of
1989 Drilling

Claim Boundary

TASEKO

RIVER

FISH
LAKE

0 1 2 3 4
Km.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,378

51°25'

N.T.S. 92-O/5

FISH LAKE PROPERTY

Drawn by: APR		Traced by:	
Revised by	Date	Revised by	Date

LOCATION MAP

Scale: 1:50,000 | Date: Oct. 1989 | Plate: 2

210 0620