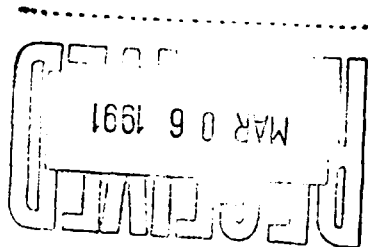
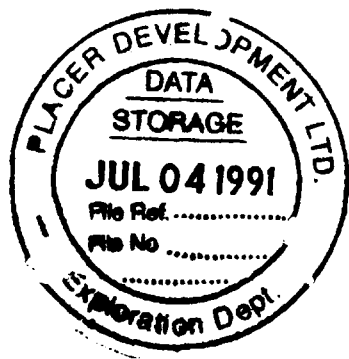


COMINCO EXPLORATION

700-409 Granville Street/Vancouver, B.C./Canada V6C 1T2/Tel. (604) 682-0611/Telex 04-507730/Fax (604) 685-3069

FISH LAKE

860970



D. Forrester
Pacific Sentinel
1020 - 800 W. Pender Ave.,
Vancouver, B.C.,

BY COURIER

01 March 1991,

Dear Mr. Forrester

Enclosed are all survey data and all Sperry Sun data I could find. We do also have drafted maps (1/1250) with true claim/fraction location. If you want a copy or original, please let me know.

Yours very truly,

A handwritten signature in cursive script, appearing to read "Andre Pauwels".

Andre Pauwels,
Senior Geologist,
Exploration-
Western Canada.

AMP/lb



BETHLEHEM
COPPER
CORPORATION

GENERAL DRILL HOLE LOG

Latitude:	Map No. FL-81-2
Departure:	Commenced:
Elevation:	Completed:
Length:	Logged by: R.G.S.
Overburden:	Sheet No. 14 of 14
Az. Dip:	Claim:

Contractor: J. T. Thomas

Property: Fish Lake

Area:

Purpose:

Drill Type:

Core Size:

Az. Dip:

Claim:

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES			MINERALIZATION ALTERATION						HOLE DEPTH TAG NO.	ASSAYS %				% RECOVER			
	Cp	Py	Other	OXIDE	EP	CL	MS	KY	BI		OTHER	Cu	Au	Ag		Mo		
	x	x									GY strcs common, few QZ-Py strcs	334 to 337 0734	0.15	.008	.02			100
	x	x									"	337 to 340 0735	0.19	.009	.02			100
	x	x									"	340 to 343 0736	0.14	.008	.02			100
349.9-352.35 Intense alteration (QZ-SER-CL) obscuring texture	x	x									GY strcs common QZ-Py strcs & vltcs	343 to 346 0737	0.16	.009	.03			100
	x	x									GY strcs common few Py strcs	346 to 349 0738	0.20	.010	.04			100
	x	x									"	349 to 351 0739	0.19	.008	.03			100
352.35 End of Hole	x	x									"	351 to 352.35 0740	0.22	.012	.04			100
Sperry-Sun Tests												to						
@ 31.40 m -59° N 4° W												to						
@ 189.02 m -59° N 4° W												to						
@ 344.51 m -59° N 1° W												to						
												to						
												to						
												to						
												to						



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GENERAL DRILL HOLE LOG

Latitude:	Met. No. FL81-4
Departure:	Commenced:
Elevation:	Completed:
Length:	Logged by: RCS/NJW
Overburden:	Sheet No. 11 of 11
Az. Dip:	Claim:

Contractor: J. T. Thomas

Property: Fish Lake

Area:

Purpose:

Drill Type:

Core Size:

Core Size:

Core Size:

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES			MINERALIZATION ALTERATION						HOLE DEPTH TAG NO.	ASSAYS %				RECOVER		
	Cp	Py	Other	OXIDE	EP	CL	MS	KN	BI		OTHER	Cu	Au	Ag		Mo	
Strongly silicified meta-andesites & volcanic porphyries, variable chlorite and secondary BI alteration, sulphide stringers have QZ-SER alt ⁿ envelopes	x	x									GY & QZ-Py str	321 to 324					
											COMMON	FL 0277	0.28	.015	.04		
	x	x									"	324 to 327					
											"	FL 0278	0.28	.014	.07		
Gypsum veinlet at 40° - 1/metre Carbonate veinlet at 30° with gypsum core.	x	x									M GY str, QZ str & vlt + Py com.	327 to 330					
	x	x									M GY, QZ & QZ-Py stra & vlt common	FL 0279	0.28	.015	.05		
											"	330 to 333					
											"	FL 0280	0.20	.011	.04		
Fracture controlled biotite & disseminated clots.	x	x									"	333 to 336					
Silicification extends to bottom of hole. Chalco stringer at 346 m at 10° to vca.	xx	x									"	FL 0281	0.21	.010	.02		
	x	x									"	336 to 339					
											"	FL 0282	0.27	.014	.02		
											"	339 to 342					
											"	FL 0283	0.17	.009	.01		
352.04 End of Hole Casing pulled.	x	x									"	342 to 345					
											"	FL 0284	0.30	.012	.02		
	x	x									"	345 to 348					
											"	FL 0285	0.41	.018	.03		
Sperry-Sun Tests 352 m. 58° dip N 7° E 97.5 m 58° dip N 5° W	x	x									"	348 to 351					
	x	x									"	FL 0286	0.26	.015	.02		
											"	351 to 352.04					
											"	FL 0287	0.31	.016	.02		
											"	to					
											"	to					
											"	to					



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GENERAL DRILL HOLE LOG

Latitude:	Hole No. FL81-5
Departure:	Commenced:
Elevation:	Completed:
Length:	Logged by: NJW
Overburden:	Sheet No. 7 of 7
Az. Dip:	Claim:

Contractor: J. T. Thomas Drill Type: Core Size:

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES MINERALIZATION ALTERATION								HOLE DEPTH TAG NO.	ASSAYS%					% RECOV
	Cp	Py	Other	OXIDE	EP	CL	MS	K		BI	OTHER	Cu	Au	Ag	
Pyrite veinlet at 30° offset by gypsum 10° to vca. Pervasive sericite, more intense around fractures.	x	x		hem			M		W	308 to 311 FL 0372	0.51	.024	.04		314.13- 325.62
										311 to 314 FL 0373	0.19	.011	.01		95%
325-325.7 m. Fault Gouge. 346.96-348.93 Fault Gouge. Rebrecciated quartz with intense biotite. Some disseminated hematite.									S	314 to 317 FL 0374	0.24	.013	.04		
				hem						317 to 320 FL 0375	0.16	.008	.01		325.62- 336.60
										320 to 323 FL 0376	0.21	.009	.01		91%
Zeolites? 351.4 m										323 to 326 FL 0377	0.29	.016	.03		
352.65 End of Hole Casing left in hole.										326 to 329 FL 0378	0.18	.009	.02		336.60- 347.63
										329 to 332 FL 0379	0.15	.009	.01		91%
										332 to 335 FL 0380	0.27	.013	.03		
<u>Sperry Sun Tests</u>										335 to 338 FL 0381	0.34	.019	.07		
@ 67.07 m -59.5° N 12° E										338 to 341 FL 0382	0.21	.009	.02		
@ 182.93 m -61° N 5° E										341 to 344 FL 0383	0.24	.013	.02		
@ 350.61 m -61.5° N 5° E										344 to 347 FL 0384	0.27	.014	.04		
										347 to 350 FL 0385	0.20	.011	.01		
										350 to 352.65 FL 0386	0.26	.014	.02		



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GENERAL DRILL HOLE LOG

Latitude:	Hole No. FL81-6
Departure:	Commenced:
Elevation:	Completed:
Length:	Logged by: NJW
Overburden:	Sheet No. 8 of 8
Az. Dip:	Claim:

Property: Fish Lake	Area:
Purpose:	Drill Type:
Core Size:	

Contractor: J. T. Thomas

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES MINERALIZATION ALTERATION								HOLE DEPTH TAG NO.	ASSAYS%					% RECOVER
	Cp	Py	Other	OXIDE	EP	CL	MS	KN		BI	OTHER	Cu	Au	Ag	
308.58-311.46 QFP, Pale green, rounded quartz eyes. Hairline carbonate veinlets at 60° to vca. Post mineral dike. Bottom contact sharp at 60° to vca.										311.6 to 314.6 FL 0952	0.15	.008	.01		309.39-320.51
										314.6 to 317.6 FL 0953	0.14	.008	.01		91%
										317.6 to 320.6 FL 0954	0.01	.002	.01		
										320.6 to 323.6 FL 0955	0.11	.005	.01		
311.46-351.74 m. Andesite as before. Carbonate veinlets at 60° to vca. Still qtz-sericite envelopes around py-cp veinlets. Occasional hematite clot. Occasional short (20 cm) bleached section.	x	x		hem						323.6 to 326.6 FL 0956	0.11	.006	.01	320.51-331.93	
										326.6 to 329.6 FL 0957	0.19	.011	.01		94%
										329.6 to 332.6 FL 0958	0.15	.009	.01		
										332.6 to 335.6 FL 0959	0.16	.009	.01	331.93-343.07	
351.74 End of Hole. 90 feet casing left in hole.										335.6 to 338.6 FL 0960	0.16	.009	.01	91%	
										338.6 to 341.6 FL 0961	0.24	.013	.01	343.07-351.74	
<u>Sperry Sun Tests</u>										341.6 to 344.6 FL 0962	0.15	.010	.01	95%	
@ 33.54 m 58.5° N 4° W										344.6 to 347.6 FL 0963	0.12	.009	.01		
@ 182.93 m 58.0° Due North										347.6 to 350.6 FL 0964	0.11	.007	.02		
@ 341.46 m 57.0° N 11° E										350.6 to 351.76 FL 0965	0.26	.013	.03		



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GENERAL DRILL HOLE LOG

Latitude:	Hole No. FL81-8
Departure:	Commenced:
Elevation:	Completed:
Length:	Logged by: NJW
Overburden:	Sheet No. 8 of 8
Az. Dip:	Claim:

Contractor: J. T. Thomas

Property: Fish Lake

Area:

Purpose:

Drill Type:

Core Size:

GENERAL DESCRIPTION (GEOLOGY)	MINERALIZATION										HOLE DEPTH TAG NO.	ASSAYS					% RECOVER
	Cp	Py	Other	OXIDE	EP	CL	MS	K	BI	OTHER		Cu	Pb	Zn	Mo		
334.39-337.82 m. Dike. Feldspar-Hb Porphyry Top contact is brecciated and sheared.												322.4 to 325.4 FL 1064	0.03	0.002	0.01		335.26- 346.25
												325.4 to 328.4 FL 1065	0.02	0.002	0.01		91%
337.82-352.35 Top 2 metres is silicified & chloritized. "Snowflake" pyrite - pyrite grown along minifractures. Sample for thin section. Grades into clotty chlorite. Veinlets of carbonate & hairline fractures. Alteration drops markedly toward bottom of hole.	x	x								carbonate		328.4 to 331.4 FL 1066	0.03	0.002	0.01		
												331.4 to 334.4 FL 1067	0.03	0.002	0.01		346.25- 352.95
												334.4 to 337.4 FL 1068	0.01	0.002	0.01		96%
												337.4 to 340.4 FL 1069	0.02	0.003	0.01		
												340.4 to 343.4 FL 1070	0.03	0.003	0.01		
352.35 End of Hole												343.4 to 346.4 FL 1071	0.08	0.004	0.01		
100' NQ casing left in hole.												346.4 to 349.4 FL 1072	0.04	0.002	0.01		
												349.4 to 352.35 FL 1073	0.09	0.004	0.01		
Sperry Sun Tests												to					
@ 39.63 m 62.0° N 11° E												to					
@ 182.93 m 62.5° N 5° W												to					
@ 341.46 m 63.5° N 3° E												to					
												to					



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GENERAL DRILL HOLE LOG

Latitude:	Hole No. <u>FL81-9</u>
Departure:	Commenced: <input checked="" type="checkbox"/>
Elevation:	Completed: <input checked="" type="checkbox"/>
Length:	Logged by: <u>NJW</u>
Overburden:	Sheet No. <u>11</u> of <u>11</u>
Az. Dip:	Claim:

Contractor: J. T. Thomas Property: Fish Lake Area: Purpose: Drill Type: Core Size:

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES		MINERALIZATION ALTERATION							HOLE DEPTH TAG NO.	ASSAYS					% RECOVER
	Cp	Py Other	OXIDE	FP	CL	MS	KN	BI	OTHER		Cu	Au	Ag	Mo		
Magnetite increases towards bottom of hole.										345.2 to 348.2					345.82-	
352.35 End of Hole.										FL 1245	0.12	.005	.02		352.05	
40' NQ casing left in hole.										348.2 to 351.2					96Z	
										FL 1246	0.07	.004	.01			
										351.2 to 352.35						
										FL 1247	0.09	.005	.02			
										to E.O.H.						
										to						
Sperry-Sun Tests										to						
@ 30.49 m -60.0° N 1° W										to						
@ 182.93 m -60.5° Due North										to						
@ 341.46 m -60.0° N 5° E										to						
										to						
										to						
64 boxes										to						
										to						
										to						
										to						
										to						



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GENERAL DRILL HOLE LOG

Contractor:		Drill Type:		Core Size:		Latitude:		Hole No. FL81-10	
Property:		Area:		Purpose:		Departure:		Commenced:	
Elevation:		Length:		Overburden:		Az. Dip:		Completed:	
Logged by: NJW		Sheet No. 7 of 7		Claim:					

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES			MINERALIZATION ALTERATION						HOLE DEPTH TAG NO.	ASSAYS%					% RECOVER
	Cp	Py	Other	OXIDE	EP	CL	MS	KY	BI		OTHER	Cu	Au	Ag	Mo	
326.0 - 352.65 Quartz-Feldspar Porphyry. Well altered. Feldspars are diffuse and soft. Quartz eyes have irregular runs. Some silicification around veinlets. Py-clcP veinlets quite common. Moly in late quartz vein at 339.9m alternately bleached and dark green.	X	X		hem mag							311.44 to 314.44 2656FL	.16	.009	.01	✓	321.7- 333.10 94%
								S	S		314.44 to 317.44 2657FL	.08	.006	.04	✓	
			MoS ₂								317.44 to 320.44 2658FL	.12	.002	.01	✓	
352.65m End of hole.											320.44 to 323.44 2659FL	.01	<.002	.01		333.10- 344.24 92%
NO casing left in hole.											323.44 to 326.44 2660FL	.06	<.002	.01		
											326.44 to 329.44 2661FL	.30	.028	.07		
											329.44 to 332.44 2662FL	.18	.015	.03		
											332.44 to 335.44 2663FL	.08	.004	.01		
											335.44 to 338.44 2664FL	.12	.007	.02		
											338.44 to 341.44 2665FL	.12	.008	.03	✓	344.24- 352.65 92%
											341.44 to 344.44 2666FL	.19	.009	.03	✓	
											344.44 to 347.44 2667FL	.14	.007	.02	✓	
											347.44 to 350.44 2668FL	.12	.009	.01		
											350.44 to 352.65 2669FL	.18	.008	.02		



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GENERAL DRILL HOLE LOG

Latitude:	Hole No. FL81-11
Departure:	Commenced:
Elevation:	Completed:
Length:	Logged by: NJW
Overburden:	Sheet No. 8 of 8
Ar. Dip:	Claim:

Contractor: J. T. Thomas

Property: Fish Lake	Core Size:
Area:	
Purpose:	

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES MINERALIZATION ALTERATION								HOLE DEPTH TAG NO.	ASSAYS					% RECON
	Cp	Py	Other	OXIDE	EP	CL	MS	KN		BI	OTHER	Cu	Au	Ag	
317.2-318 Quartz-chlorite vein parallel to vca.		x								309 to 312 FL 2768	0.01	0.002	.01	.003	317.12-318.64
319-319.5 Qtz-pyrite vein parallel to vca.										312 to 315 FL 2769	0.01	0.002	.02	.002	95%
321.6-323.5 Pale grey with green spots - chlorite blebs.										315 to 318 FL 2770	0.02	.004	0.01	.003	324.64-339.79
327-331 Brown with light green spots. Probably altered feldspars.										318 to 321 FL 2771	0.02	0.002	.02	.002	92%
328.6 Pyrite-gypsum vein parallel to core cut by gypsum at 60° to core axis.										321 to 324 FL 2772	0.01	0.002	.02	.002	
Lots of disseminated pyrite.		x								324 to 327 FL 2773	0.01	0.002	.02	.003	339.79-351.22
334.1-335.5 Very dark andesite with disseminated pyrite.			x							327 to 330 FL 2774	0.01	.002	.01	.002	94%
335.5-352.35 Bleached.										330 to 333 FL 2775	0.05	.003	.01	.001	
352.35 End of Hole.										333 to 336 FL 2776	0.05	.006	.02	.002	
NO casing left in hole.										336 to 339 FL 2777	0.01	.001	.02	.001	
Sperry-Sun Tests										339 to 342 FL 2778	0.05	.002	.02	.002	
@ 30.49 m -58.0° N 4° E 4										342 to 345 FL 2779	0.01	.002	.02	.001	
@ 182.93 m -59.0° N 2° E 2										345 to 348 FL 2780	0.01	0.002	.02	.001	
@ 344.51 m -59.0° N 3° E 2										348 to 351 FL 2781	0.02	0.002	.01	.001	

351 352.35
FL 2782 0.02 .002 .02 .003



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GENERAL DRILL HOLE LOG

Property: Fish Lake		Latitude:	Hole No. FL81-13
Area:		Departure:	Commenced:
Purpose:		Elevation:	Completed:
Drill Type:		Length:	Logged by: NJW
Core Size:		Overburden:	Sheet No. 8 of 8
Contractor: J. T. Thomas		Az. Dip:	Claim:

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES			MINERALIZATION ALTERATION					HOLE DEPTH TAG NO.	ASSAYS %					% RECOVER
	Cp	Py	Other	OXIDE	EP	CL	MS	KY		BI	OTHER	Cu	Au	Ag	
										327 to 330 FL 1450	0.15	.006	.01	.009	
										330 to 333 FL 1451	0.13	.006	<.01	.010	
										333 to 336 FL 1452	0.08	.005	.01	.010	
										336 to 339 FL 1453	0.23	.008	.01	.010	
										339 to 342 FL 1454	0.35	.018	.02	.012	
										342 to 345 FL 1455	0.46	.012	.02	.012	
										345 to 348 FL 1456	0.28	.012	.02	.011	
										348 to 351 FL 1457	0.21	.015	.01	.011	
										351 to 352.65 FL 1458	0.25	.005	<.01	.012	
										to					
										to					
										to					
										to					
										to					



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GENERAL DRILL HOLE LOG

GENERAL DESCRIPTION (GEOLOGY)		SULPHIDES		MINERALIZATION ALTERATION							HOLE DEPTH		ASSAYS%					%	
		Cp	Py	Other	OXIDE	EP	CL	MS	KN	BI	OTHER	TAG NO.	Cu	Au	Ag	Mo		RECON	
333.5 - 339.9m Feldspar Porphyry.												318 to 321 2881FL	.03	003	.02	.001		339.38-349.66 85%	
Siliceous. Feldspars fuzzy and kaolinized.												321 to 324 2882FL	.03	003	.01	.001			
Mafics chloritized. Few sulfides or veins.												324 to 327 2883FL	.02	002	.01	.001			
339.9 - 352.35m Andesite												327 to 330 2884FL	.01	002	.03	.001			
Dark green, fine - grained.												330 to 333 2885FL	.03	002	.02	.001			
Carbonate veinlets, but not much else.												333 to 336 2886FL	.01	002	.02	.001			
352.35 End of Hole												336 to 339 2887FL	.01	002	.01	.001			
NQ casing left in hole.												339 to 342 2888FL	.01	002	.01	.001			
Sperry-Sun Test												342 to 345 2889FL	.01	002	.01	.001			
@ 60.96 -59° Due north												345 to 348 2890FL	.03	007	.02	.001			
@ 352.35 -60° N 9° E.												348 to 351 2891FL	.01	002	.03	.001			
												351 to 352.35 2892FL	.03	002	.02	.001			
												to							
												to							

Latitude:	Hole No. FL 81-14
Departure:	Commenced:
Elevation:	Completed:
Length:	Logged by: NJW
Overburden:	Sheet No. 8 of 8
Az. Dip:	Claim:

Contractor:	Drill Type: 44	Core Size:
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GENERAL DRILL HOLE LOG

Latitude:	Hole No. FL 81-19
Departure:	Commenced:
Elevation:	Completed:
Length: 3	Logged by: NJW
Overburden:	Sheet No. 8 of 8
Az. Dip:	Claim:

Contractor:

Drill Type:

Core Size:

Az. Dip:

Claim:

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES MINERALIZATION ALTERATION								HOLE DEPTH TAG NO.	ASSAYS%					% RECON
	Cp	Py	Other	OXIDE	EP	CL	MS	KN		BI	OTHER	Cu	Au	Ag	
348.45 - 5cms fault gouge.	X	X								327.5 to 330.5 1605FL	.12	.006	<.01	.005	
348.25 - 348.45 - coarse calcite.															
348.7-352.35 Quartz-Feldspar. Porphyry. Post Mineral Dike. Contact irregular.										330.5 to 333.5 1606FL	.14	.008	<.01	.003	
										333.5 to 336.5 1607FL	.18	.004	<.01	.003	
352.35 - End of hole.										336.5 to 339.5 1608FL	.14	.005	.01	.005	
110' NQ casing left in hole.										339.5 to 342.5 1609FL	.28	.013	<.01	.006	
Sperry-Sun Test										342.5 to 345.5 1610FL	.09	.005	<.01	.002	
@ 60.96m -58° N 3° W										345.5 to 348.5 1611FL	.15	.006	.01	.005	
@ 352.35m -60° N 2° W										348.5 to 351.5 1612FL	.01	.012	<.01	.002	
										351.5 to 352.35 1613FL	.01	<.002	<.01	.001	
										to					
										to					
										to					
										to					
										to					



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GENERAL DRILL HOLE LOG

Latitude:	File No. FLS-21
Departure:	Commenced:
Elevation:	Completed:
Length:	Logged by: NJW
Overburden:	Sheet No. 4 of 4
Dr. Dip:	Claim:

Contractor: J. T. Thomas

Property: Fish Lake

Area:

Purpose:

Drill Type:

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES MINERALIZATION ALTERATION								HOLE DEPTH TAG NO.	ASSAYS %						% RECOVER	
	Cp	Py	Other	OXIDE	EP	CL	MS	KI		BI	OTHER	Cu	Au	Ag	Mo		As
135.5-138.1 Fine arkose										124.86 to 127.86 FL 1642	.01	<.002	<.01	<.001	16.5	<0.1	143.87- 150.88
138.1-140.5 Siltstone & mudstone										127.86 to 130 FL 1643	.01	<.002	<.01	<.001	15.5	<0.1	90:
140.5-141.3 Fine arkose - almost a sand-sized sediment.										130 to 133 FL 1644	.01	<.002	<.01	<.001	14.0	<0.1	
141.3-144.1 Feldspar-hornblende Porphyry. Rock is pale grey Fs are diffuse & soft, Hb is now chlorite.										10							
144.1-150.88 Sediments Fairly massive, fine-grained graphitic rocks. Bedding is at 70° to vca.										10							
150.86 End of Hole										10							
6' NQ casing left in hole.										10							
Sperry-Sun Test										10							
@ 39.62 m -44.5° N 54° W										10							
@ 150.88 m -43° N 52° W										10							
										10							
										10							



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GENERAL DRILL HOLE LOG

Latitude:	Hole No. FL 81-22
Departure:	Commenced:
Elevation:	Completed:
Length:	Logged by: NJW
Overburden:	Sheet No. 3 of 3
Az. Dip:	Claim:

Contractor:

Drill Type: 38

Core Size: NQ

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES MINERALIZATION ALTERATION							HOLE DEPTH TAG NO.	ASSAYS %						% RECON	
	Cp	Py	Other	OXIDE	EP	CL	MS		Kf	BI	OTHER	Cu	Au	Ag		Mo
106.2-120.15 fine arkose - some sandy bands. Orpiment has died out. Some graphitic bands.									93 to 94 1663FL	.01	.008	.02	.001	12.0	<0.1	111.45-122.44
									94 to 97 1664FL	.01	.007	.02	<.001	8.0	<0.1	93%
120.15-124.5 Quartz-Feldspar Porphyry Rock is pale green. Matrix feldspars are kaolinized. Maybe some sericite.									97 to 100 1665FL	.01	.002	.01	.001	11.5	<0.1	122.44-133.56
									100 to 103 1666FL	.01	<.002	.02	.001	10.5	<0.1	91%
124.5-150.88m. Sediments 124.5-135 ss-ms. Fine arkose bands and sand bands.									103 to 106 1667FL	.01	<.002	.01	.001	11.0	<0.1	
									106 to 109 1668FL	.01	<.002	<.01	<.001	0.1	<0.1	133.56-144.05
135-136 arkose - fine.									to							87%
136-143 graphitic siltstone - arkose.									to							144.05-150.88
137.9-8 cms coal.									to							
143-143.6 coarse arkose. Almost a chert pebble conglomerate.									to							90%
									to							
143.6 - 10 cm quartz vein with chalcoblenes.									to							
143.6-150.88 Sandy arkose. Some coarse pebbly sections. Occasional pyrite on fractures.									to							
									to							
150.88 End of hole.									to							
4' NQ casing left in hole.									to							
Sperry-sun tests.									to							
@ 30.48m -44° N 59°W																
@150.88m -44.5° N56°W																



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GENERAL DRILL HOLE LOG

Latitude:	Hole No. FL81-23
Departure:	Commenced:
Elevation:	Completed:
Length:	Logged by: AMP
Overburden:	Sheet No. 4 of 4
Az. Dip:	Claim:

Property: Fish Lake

Area:

Purpose:

Drill Type:

Core Size:

Contractor: J. T. Thomas

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES			MINERALIZATION ALTERATION						HOLE DEPTH TAG NO.	ASSAYS %					% RECON
	Cp	Py	Other	OXIDE	EP	CL	MS	KN	BI		OTHER	Cu	Au	Ag	Mo	
154-165.5 Fine-grained sediments or tuffs. Little or no pyrite. Sericitic alteration pervasive, chloritic alteration in veins and on joints. Green to pinkish color. Core split up in small fragments.						x	x				151.25 ₀ 154.25 ₂₅ FL 3248	.04	.003	.02	.002	151.8- 153.8
											154.25 ₀ 157.25 ₂₅ FL 3249	.05	.003	.01	.002	95%
											157.25 ₀ 160.25 ₂₅ FL 3250	.03	.002	.01	.003	153.8- 166.7
											160.25 ₀ 163.25 ₂₅ FL 3251	.04	.003	.01	.001	100%
											163.25 ₀ 166.25 ₂₅ FL 3252	.05	.003	.01	.002	
165.5-177 Medium to coarse grained sediments. Secondary chlorite. Very well developed. Core shell very fragmented. 1 m core ground at 166.7 Soft clay alteration at 170.4 in fault gouge.		x					x				166.25 ₀ 169.25 ₂₅ FL 3253	.10	.005	.02	.003	166.7- 167.94
											169.25 ₀ 172.25 ₂₅ FL 3254	.12	.006	.02	.004	5%
											172.25 ₀ 175.25 ₂₅ FL 3255	.18	.009	.02	.003	
											175.25 ₀ 178.30 ₃₀ FL 3256	.13	.006	.03	.003	167.94- 175.26
											10				90%	
177-178.3 End of Hole. Fine-grained bands of sediment clay seams at 170.											10					
											10				175.26- 177.05	
Hole stopped at 178.3 (excessive caving) N casing left in hole.											10				90%	
											10				177.05- 178.30	
Sperry-Sun Tests											10				75%	

@ 45.72 m -62° N 4° E
@ 176.78 m -62.5° N 8° E



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GENERAL DRILL HOLE LOG

Latitude:	Hole No. FL81-24
Departure:	Commenced:
Elevation:	Completed:
Length:	Logged by: NJW
Overburden:	Sheet No. 7 of 7
Az. Dip:	Claim:

Contractor: J. T. Thomas

Property: Fish Lake

Area:

Purpose:

Drill Type:

Core Size:

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES			MINERALIZATION ALTERATION							HOLE DEPTH TAG NO.	ASSAYS%					% RECO
	Cp	Py	Other	OXIDE	EP	CL	MS	K	BI	OTHER		Cu	Au	Ag	Mo		
341.38 End of Hole.	x	x		hem		W	M	W		gypsum	313 to 316 FL 3341	.19	.008	.01	.008	326.74- 338.00	
Bit finished. Casing escaped down hole, probably due to washing in gouge at top of hole. Hole stopped 37 feet early. This hole cannot be deepened.											316 to 319 FL 3342	.25	.009	.02	.005	95%	
											319 to 322 FL 3343	.25	.007	.02	.006		
											322 to 325 FL 3344	.23	.006	.02	.006		
Sperry-Sun Tests											325 to 328 FL 3345	.21	.011	.02	.013		
@ 152.4 m -63° N 2° E											328 to 331 FL 3346	.26	.025	.02	.008		
@ 341.38 m -64° Due North											331 to 334 FL 3347	.31	.013	.02	.006		
											334 to 337 FL 3348	.33	.025	.04	.010		
											337 to 340 FL 3349	.34	.018	.03	.007		
											340 to 341.38 FL 3350	.21	.014	.03	.008		
											to						
											to						
											to						
											to						
											to						



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GENERAL DRILL HOLE LOG

Latitude:	Hole No. FL81-30
Departure:	Commenced:
Elevation:	Completed:
Length:	Logged by: NJW
Overburden:	Sheet No. 5 of 5
Az. Dip:	Claim:

Property: Fish Lake	Drill Type:	Core Size:
Area:		
Purpose:		

Contractor: J. T. Thomas

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES			MINERALIZATION ALTERATION							HOLE DEPTH TAG NO.	ASSAYS X					% RECOVER
	Cp	Py	Other	OXIDE	EP	CL	MS	KF	BI	OTHER		Cu	Au	Ag	Mo		
288.75-291 m. Fault gouge.											275 to 278					290.88-300.84	
291-311.81 As before gouge.		x								gypsum	278 to 281	.01	<.002	<.01	.002	82%	
308.6-311.81 Rock is red - Jasper or disseminated hematite.											FL 3408	<.01	<.002	<.01	.002		
											281 to 284						
											FL 3409	.01	<.002	<.01	.002		
											284 to 287						
311.81 End of Hole. Hole stopped because enlarged below casing, and rods whipping badly.											FL 3410	.01	<.002	<.01	.002		
NW casing left in hole.											287 to 290						
											FL 3411	.01	<.002	<.01	.002		
											290 to 293						
											FL 3412	.01	<.002	<.01	.002		
											293 to 296						
											FL 3413	.02	<.002	<.01	.002		
											296 to 299						
Sperry-Sun Tests											FL 3414	.01	<.002	<.01	.002		
											299 to 302						
@ 106.68 m -62° N 2° E											FL 3415	.01	<.002	<.01	.002		
@ 167.64 m -62.5° N 2° E											302 to 305						
@ 304.80 m -63° N 1° E											FL 3416	.01	<.002	<.01	.002	300.84-311.81	
											305 to 308						
											FL 3417	.01	<.002	<.01	.002	90%	
											308 to 311.81						
											FL 3418	.01	.002	<.01	.002		
											to E.O.H.						
											to						



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GENERAL DRILL HOLE LOG



Property:		Latitude:	Hole No. Q81-8
Area:		Departure:	Commenced:
Purpose:		Elevation:	Completed:
Drill Type:		Length:	Logged by: NJW
Core Size:		Overburden:	Sheet No. 5 of 5
Contractor: J. T. Thomas		Az. Dip:	Claim:

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES MINERALIZATION								HOLE DEPTH TAG NO.	ASSAYS %					% RECOVER
	Cp	Py	Other	OXIDE	EP	CL	MS	K		BI	OTHER	Cu	Au	Ag	
283.99-294.81 Altered Diorite Top is fine-grained, dark green with chlorite clots. Some pyrite.		x								278 to 281 FL 0553	0.08	0.003	0.02		
286.5-293.0 m Brecciated kaolinized. Multiple shears & fracture orientations. Pyrite stringers parallel to vca.										281 to 284 FL 0554	0.04	0.002	0.04		
293.0-294.81 m. Fine-grained green (?) diorite. Fractures about 20° to vca.										284 to 287 FL 0555	0.17	0.005	0.07		
										287 to 290 FL 0556	0.35	0.014	0.07		
										290 to 293 FL 0557	0.25	0.012	0.05		
283.99-297.73 Porphyry dike. Chill margin about 20 cms at top. Contact sharp, 80° to vca. Phenocrysts are/were feldspar and amphibole. 30 cm chill margin at base. Contact sharp 30° to vca. Gypsum at base in globby veinlet.										293 to 296 FL 0558	0.19	0.009	0.06		
										296 to 299 FL 0559	0.21	0.012	0.09		
										299 to 302 FL 0560	0.23	0.014	0.05		
										302 to 305.4 FL 0561	0.08	0.002	0.02		
297.73-303.49 Altered Andesite? Fine-grained, kaolinized & chloritized. 10 cm grade zone at base.										to					
										to					
303.49-305.41 Porphyry Dike. Feldspar-amphibole dike.										to					
										to					
End of Hole. Sperry Sun Test at 305.41 m. Dip -87° Azimuth 295°.										to					
										to					



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GENERAL DRILL HOLE LOG

Property: Fish Lake		Latitude:	Hole No. 081-12
Area:		Departure:	Commenced:
Purpose:		Elevation:	Completed:
Drill Type:		Length:	Logged by: NJW
Core Size:		Overburden:	Sheet No. 4 of 4
Contractor: J. T. Thomas		Az. Dip:	Claim:

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES MINERALIZATION							HOLE DEPTH TAG NO.	ASSAYS %					RECOV	
	Cp	Py	Other	OXIDE	EP	CL	MS		K ⁺	BI	OTHER	Cu	Au		Ag
289.4-291.19 Pale Grey-Pink Feldspar Porphyry. Looks similar to surrounding diorite except color. Small flecks of disseminated pyrite. Contacts gradational.		x		hem				x	gypsum	270.68 ₁₀ 273.68 FL 0151	0.20	.015	.05		
										273.68 ₁₀ 276.68 FL 0152	0.35	.018	.06		287.55- 298.74
										276.68 ₁₀ 279.68 FL 0153	0.16	.007	.04		92%
291.19-296.01 Dark green diorite. Large and small feldspar phenos. Grades into bleached rock again.										279.68 ₁₀ 282.68 FL 0154	0.34	.016	.06		298.74- 305.41
										282.68 ₁₀ 285.68 FL 0155	0.19	.012	.04		93%
296.01-299.10 As 289.4-291.19 m										285.68 ₁₀ 288.68 FL 0156	0.20	.010	.04		
299.10-305.41 Andesite grades down into diorite into bleached diorite. Pyrite veinlets 20° to vca.										288.68 ₁₀ 289.40 FL 0157	0.13	.008	.03		
										289.40 ₁₀ 291.19 FL 0158	0.42	.018	.06		
305.41 End of Hole Quintana casing left in hole.										291.19 ₁₀ 294.19 FL 0159	0.21	.009	.03		
										294.19 ₁₀ 296.01 FL 0160	0.01	.002	.02		
Sperry-Sun Test										296.01 ₁₀ 299.01 FL 0161	0.91	.002	.01		
@ 305.49 m -88° N 23.5° W										299.01 ₁₀ 300.01 FL 0162	0.24	.014	.03		
										300.01 ₁₀ 303.01 FL 0163	0.20	.008	.03		
										303.01 ₁₀ 305.41 FL 0164	0.18	.008	.03		



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GENERAL DRILL HOLE LOG

Latitude:	Hole No. Q81-13
Departure:	Commenced:
Elevation:	Completed:
Length:	Logged by: AMP
Overburden:	Sheet No. 8 of 8
Az. Dip:	ClcIm:

Contractor: J. T. Thomas

Property: Fish Lake

Area:

Purpose:

Drill Type:

Core Size:

GENERAL DESCRIPTION (GEOLOGY)	SULPHIDES MINERALIZATION ALTERATION							HOLE DEPTH		ASSAYS%					% RECOV		
	Cp	Py	Other	OXIDE	EP	CL	MS	KY	BI	OTHER	TAG NO.	Cu	Au	Ag		Mo	
261-306.62 Fine-grained veined andesite 2-5%. Py mostly in veinlets. Small zones with some secondary biotite patches. Some large carbonate-py-mag zones.		x		mag						gypsum	261.75 264.75 FL 1120	0.28	.014	.02			240.6-258.03
											264.75 267.75 FL 1121	0.30	.014	.03			98%
						x			x		267.75 270.75 FL 1122	0.21	.009	.02			258.03-270.05
Most veins carbonate. Mag-cpy-carb vein at 282.75.	x	x									270.75 273.75 FL 1123	0.15	.008	.01			99%
Thin magnetite veinlets throughout. Clay alteration on slickensides near 282.5-9.											273.75 276.75 FL 1124	0.12	.007	.01			270.05-282.25
At 288.4 slickensides with black coating.											276.75 279.75 FL 1125	0.12	.007	.01	.003		99%
White coarse carbo vein (9 cm) at Chlorite on carbonate fractures.											279.75 282.75 FL 1126	0.13	.008	.02	.005		
											282.75 285.75 FL 1127	0.18	.008	.02	.007		282.25-294.93
											285.75 288.75 FL 1128	0.18	.009	.02	.003		99%
											288.75 291.75 FL 1129	0.12	.006	.01	.002		294.93-303.62
Carbonate quartz coarse pyrite vein at 140° to core axis, at											291.75 294.75 FL 1130	0.13	.007	.01			97%
											294.75 297.75 FL 1131	0.18	.010	.01			
306.62 End of Hole Sperry-Sun test lost.											297.75 300.75 FL 1132	0.23	.012	.02			
											300.75 303.75 FL 1133	0.09	.005	.01			

303.75 306.62
FL 1134 0.09 .006 .01