

DIAMOND DRILL CORE LOG

Hole Number: 76-02

Fabric Orientation Diagram

Project: Swim Lake

Location: Swim Lake

Claim: S.B.

Terr. Plane Co-ordinates: _____ N

_____ E

Grid Co-ordinates: 76E

All symmetry determinations looking

_____ with _____ dipping

_____ with dip azimuth _____.

Total Depth: 213.0 ft.

Purpose: _____

Logged by: R. P. Hill Date(s) Logged: March, 1976

Drilling Contractor: Arctic Diamond Drilling Core: Size From To Collar Cased and Capped: _____

BQ 71.0 213.0

Started: _____ Completed: _____

Downhole Survey:

Depth	Observed Azimuth	True Azimuth	Inclination
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Survey Method: Not surveyed

DIAMOND DRILL CORE LOG

Hole Number: 76-06

Fabric Orientation Diagram

Project: Swim Lakes

Location: Cub Lake

Claim: Foto

Terr. Plane Co-ordinates: N

E

Grid Co-ordinates: 00N

1+50W

All symmetry determinations looking with dipping with dip azimuth.

Total Depth: 74.5'

Purpose: To test strong E.M. anomaly (assessment)

Logged by: R. P. Hill Date(s) Logged: March 1976

Drilling Arctic Diamond Contractor: Drilling Core: Size From To Collar Cased and Capped: BQ 0 74.5

Started: Completed:

Downhole Survey:

Table with 4 columns: Depth, Observed Azimuth, True Azimuth, Inclination. Multiple rows of blank lines for data entry.

Survey Method: Not surveyed.

DIAMOND DRILL CORE LOG

Hole Number: 76-07

Fabric Orientation Diagram

Project: Swim Lakes

Location: Cub Lake

Claim: Foto

Terr. Plane Co-ordinates: _____ N

_____ E

Grid Co-ordinates: _____ 00N

_____ 1+50W

All symmetry determinations looking
 _____ with _____ dipping
 _____ with dip azimuth _____.

Total Depth: 502'

Purpose: To test strong E.M. anomaly (assessment)

Logged by: R. P. Hill Date(s) Logged: April 1976

<u>Drilling Contractor:</u>	<u>Arctic Diamond Drilling</u>	<u>Core:</u>	<u>Size</u>	<u>From</u>	<u>To</u>	<u>Collar Cased and Capped:</u>
				(66)	76	_____
			<u>Sludge</u>	(76)	86	
				(86)	96	
			<u>Samples</u>	(96)	103	
			<u>BQ</u>	103	502	

Started: _____ Completed: _____

Downhole Survey:

<u>Depth</u>	<u>Observed Azimuth</u>	<u>True Azimuth</u>	<u>Inclination</u>
<u>200'</u>	<u>E</u>	<u>123°</u>	<u>1.5°</u>
<u>400'</u>	<u>S15°E</u>	<u>198°</u>	<u>4.0°</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Survey Method: Sperry Sun

Structural Log

Code	From		To		Feature	Sym	S ₁		S ₂		Description
	10	14	16	20			Dip	Direct.	Dip	Direct.	
1	22	24	26	28	32	34	38				
			124	180			010	0100	75	01010	S ₁ approx. vertical.
			125	180			010	0100	810	01010	S ₁ approx. vertical. Poor S ₃ 52-000.
			126	180			25	270	810	01010	Poor S ₃ 56-270.
			127	180							S ₂ and S ₃ both rather irregular. S ₁ ^ C.A. approx. 20°.
			128	180			25	0910	79	01010	
			129	180			40	270	710	01010	
			130	180			010	01010	817	01010	S ₁ vertical.
			131	180			510	11810	515	01010	S ₁ not seen. Poor S ₃ - quartz veinlets and fractures.
			132	180					810	01010	S ₁ not well seen.
			133	180		Z	79	01010	79	01010	S ₁ sub//S ₂ .
			134	180			410	01910	817	01010	
									↓		Quartz vein between these two - fault?
			136	100			310	01910	515	01010	Poor S ₃ 60 - 320.
			137	160			610	01010	610	01010	S ₁ sub//S ₂ .
			138	160			210	11810	814	01010	
			139	160		Z	115	01415	516	01010	
			140	160			413	11810	717	01010	

DIAMOND DRILL CORE LOG

Hole Number: 76-08

Fabric Orientation Diagram

Project: Swim Lake

Location: South end of Foto

Claim: Foto

Terr. Plane Co-ordinates: N

E

Grid Co-ordinates:

All symmetry determinations looking with dipping with dip azimuth

Total Depth: 632 ft.

Purpose: To test EM anomaly and for assessment

Logged by: R. P. Hill Date(s) Logged: April, 1976

Drilling Contractor: Arctic Diamond Drilling Core: Size From To Collar Cased and Capped: No

BQ

Started: Completed:

Downhole Survey:

Table with 4 columns: Depth, Observed Azimuth, True Azimuth, Inclination. Multiple rows of blank lines for data entry.

Survey Method:

Lithologic Log

Code	From		To		Unit		Code	Description
	10	14	16	20	22	23		
L		0		3 7	0		1	O.B.
L		3 7	0	9 4	3		2	Dark grey to black graphite-rich phyllite, contains quite a few veins of quartz containing very large pyrite crystals.
L		9 4	3	1 3 7	0		3	Interlaminated light to medium grey micaceous slate/ phyllite and dark grey to black graphitic slate/phyllite. Contains a couple of bands up to 1 ft. thick of medium grey silty limestone and calcareous quartzite. A few thin quartz veins and small pyrite crystals.
L		1 3 7	0	2 5 7	0		4	Mostly light to medium grey slightly graphitic muscovite slate/phyllite with occasional interlamination of white quartzite. Contains a few veinlets and blebs of quartz which contain minor pyrite. Unit much less quartz-rich than phyllite of 76-07 142-145' thick quartz vein
L		2 5 7	0	5 4 9	5		S	Medium to dark grey graphitic muscovite phyllite with a few interlamination of white quartzite laced with veinlets of quartz, also a few thicker quartz veins. 374-406 - Abundant quartz vein material - about 50% of core. In places contains minor feldspar, also minor Po. At 430 ft. - band a couple of inches thick of light green chlorite muscovite phyllite. At 435 ft. - ditto 444-459 - Same as 374-406. 498-507 - ditto 545-549.5 - ditto
L		5 4 9	5	5 7 7	5		6	Interlaminated light to medium greenish grey quartz-rich muscovite chlorite phyllite and black graphitic muscovite phyllite, also (locally) thin interlamination of light grey quartzite. Abundant quartz veining containing minor feldspar and chlorite and trace pyrite.

Structural Log

Code	From				To				Feature	SYR	S ₁		S ₂		Description
	10	14	16	20	22	24	26	28			Dip	Direct.	Dip	Direct.	
1	10	14	16	20	22	24	26	28	32	34	38				
														Assume S ₂ dips north.	
														Symmetry looking west	
S				450					75	0,0,0	75	0,0,0		S ₁ //S ₂	
S				550					75	0,0,0	77	0,0,0		S ₁ sub//S ₂	
S				650					Z 73	0,0,0	73	0,0,0		S ₁ sub//S ₂	
S				750					8,0	0,0,0	8,0	0,0,0		S ₁ //S ₂	
S				850				S			8,2	0,0,0		S ₁ not well seen - folded by F ₂	
S				950					7,1	0,0,0	7,1	0,0,0		S ₁ //S ₂	
S				1,050					8,1	0,0,0	8,1	0,0,0		S ₁ //S ₂	
S				1,150					7,4	0,0,0	7,4	0,0,0		Looks like sheared-out F ₁ folds here	
														S ₁ sub//S ₂	
S				1,250					6,4	0,0,0	6,4	0,0,0		S ₁ //S ₂	
S				1,350				S	7,7	0,0,0	7,7	0,0,0		S ₁ subb//S ₂	
S				1,450				S	6,7	0,0,0	6,7	0,0,0		F ₁ folds S ₁ sub//S ₂	
S				1,550					6,5	0,0,0	6,5	0,0,0		S ₁ //S ₂ S ₃ ? = 60-000	
S				1,650							6,5	0,0,0		S ₁ not seen	
S				1,750					5,9	0,0,0	5,9	0,0,0		S ₁ //S ₂	
S				1,850					6,9	0,0,0	6,9	0,0,0		S ₁ //S ₂	
S				1,950							7,3	0,0,0		S ₁ not seen	

Structural Log

Logged By: _____

Code	From				To				Feature	S ₁ Dip Direct.	S ₂ Dip Direct.				Description
	1	10	14	16	20	22	24	26			28	32	34	38	
S					2050					61000	73000				
S					2150					60000	50000			S ₂ rather poor	
S					2250					62000	62000			S ₁ //S ₂	
S					2350					73000	73000			S ₂ folded by KB S ₁ //S ₂	
S					2450					69000	69000			S ₁ //S ₂	
S					2550				E	10000	69000			S ₁ folded and irregular	
S					2650				S	40135	56000			S ₁ steepens and overturns just above	
S					2750						53000			S ₁ irregular	
S					2850					75000	75000			S ₁ //S ₂ S ₂ foleded by KB	
					2950					68000	68000			S ₁ //S ₂ S ₂ folded by gentle KB ? poor S ₃ = 53-315 (thin quartz veins)	
S					3050				E		70000			S ₁ folded and irregular Poor S ₃ 80-045	
S					3160					76000	76000			S ₁ //S ₂ poor S ₃ = 80-045	
S					3260				E	74000	74000			S ₁ sub//S ₂	
S					3360					70000	70000			F ₁ folds S ₁ //S ₂	
S					3465					47000	47000			S ₁ sub //S ₂	
S					3470				3		66000			S ₁ folded and irregular	
					3570				Z	10000	62000				
					3670					45000	45000			S ₁ //S ₂ poor S ₃ = 68-315	

Structural Log

Logged By: _____

Code	From				To				Feature	SYE	S ₁		S ₂		Description
	10	14	16	20	22	24	26	28			Dip	Direct.	Dip	Direct.	
S			38	10							62	00	00	S ₁ folded and irregular	
S			39	40			Z				75	00	00	S ₁ folded and irregular	
S			40	60						60	00	00	60	00	S ₁ //S ₂
S			41	60			Z	55	01	00	55	01	00	S ₁ //S ₂	
S			42	60						83	00	00	83	00	S ₁ //S ₂
S			43	60						80	00	00	80	00	S ₁ sub//S ₂
S			44	90									64	00	This rock is a slate S ₁ not seen
S			46	00									76	00	S ₁ not seen. S ₂ becoming steeper down sample
S			47	00									85	00	?? S ₁ //S ₂ ??? - no compo banding
S			48	00									75	00	? S ₁ //S ₂ - slate - no compo banding
S			49	00			E						74	00	S ₁ folded & irregular but generally steep
S			50	10			S	65	18	00	49	00	00		
S			51	10						70	13	55	55	00	
S			52	10									74	00	S ₁ irregular
S			53	10									65	00	? S ₁ //S ₂ ? (no compo banding)
S			54	10									70	00	? S ₁ //S ₂ ? (no compo banding) F ₁ folds
S			55	10						65	00	00	65	00	S ₁ sub//S ₂
S			56	10						75	00	00	75	00	S ₁ //S ₂

