



42A02SW0314 22 POWELL

010

Diamond Drilling

Township of POWELL

Report NO 22

Work performed by: Henry King

Claim NO	Hole NO	Footage	Date	Note
L 387777	SL-1	390.0'	June/77	(1)
	SL-2	80.0'	June/77	(1)
	SL-2A	328.0'	June/77	(1)
	SL-3	218.0'	July/77	(1)
	SL-4	280.0'	July/77	(1)
	SL-5	180.0'	Aug/77	(1)

Notes:

(1) #214-77

Baden Twp. (M.205)

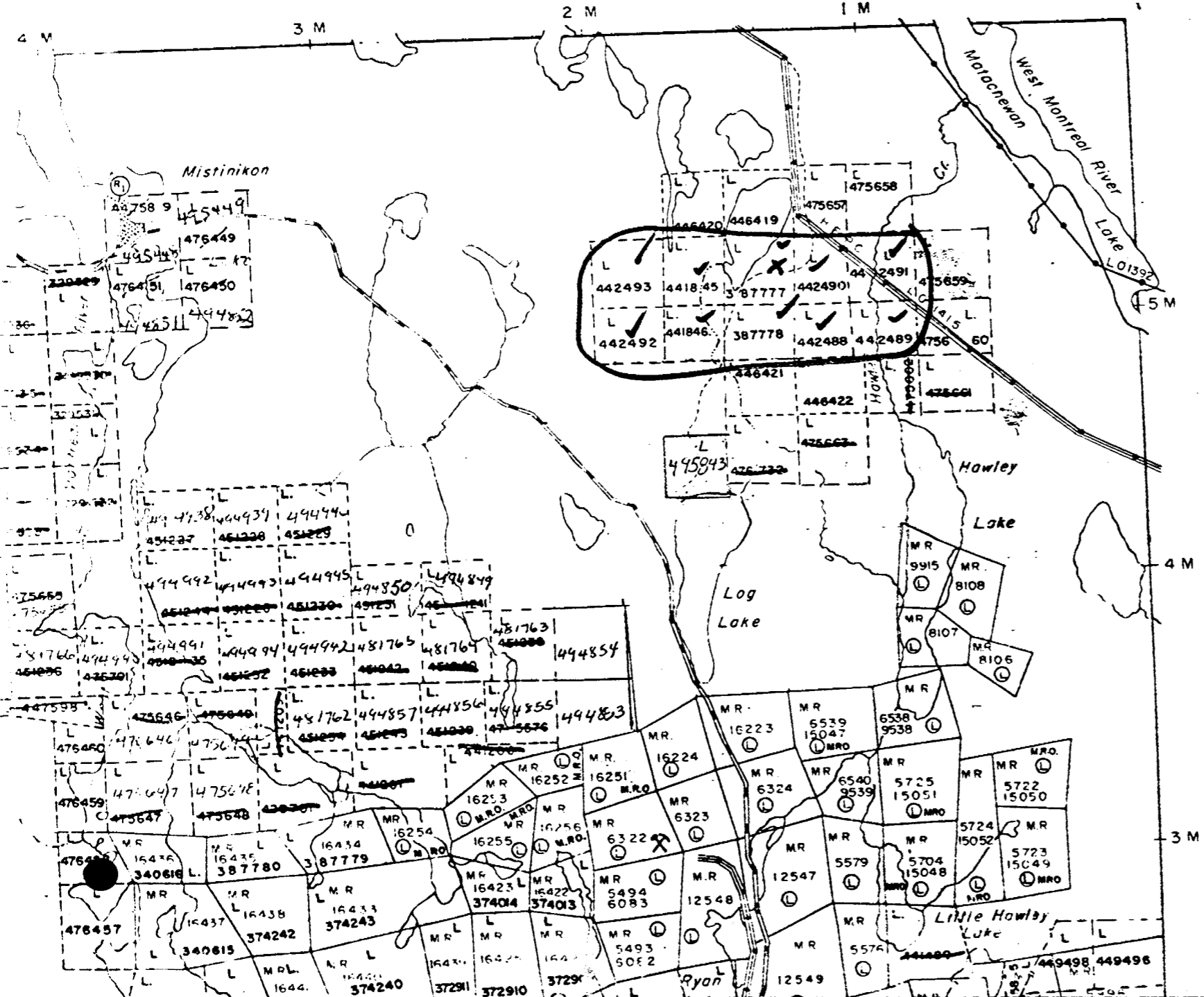
#214-77
HENRY KING
POWELL

m241

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS



LEGEND

- PATENTED LAND (P)
- CROWN LAND SALE (CS)
- LEASES (L)
- LOCATED LAND (Loc)
- LICENSE OF OCCUPATION (LO)
- MINING RIGHTS ONLY (MRO)
- SURFACE RIGHTS ONLY (SRO)
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

Larder Lake Twp. (M.210)

NOTES

400' Surface Rights Reservation along



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. SL-1

DRILLING COMPANY
FORAGE BERCO LTÉE

DATE HOLE STARTED
JUNE 5, 1977

DATE COMPLETED
JUNE 14, 1977

EXPLORATION CO., OWNER OR OPTIONEE
GEMEX MINERALS, INC

COLLAR ELEVATION
—

BEARING OF HOLE FROM TRUE NORTH
200°

TOTAL FOOTAGE
390.0

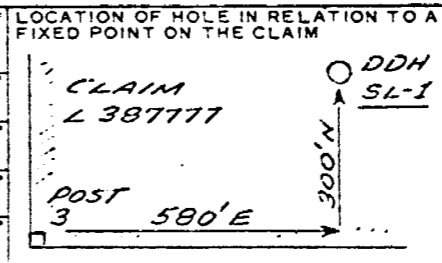
DIP OF HOLE AT collar
-45

DATE LOGGED
JUNE 16/77

LOGGED BY
THOMAS SKIMMING

DATE SUBMITTED

SUBMITTED BY (Signature)
Thomas Skimming



MAP REFERENCE NO.
M 241

CLAIM NO.
L 397117

LOCATION (Tp., Lot, Con. OR Lat. and Long.)
**POWELL TWP
(LAT. 48°00'15"N - LONG. 80°41'30"W)**

PROPERTY NAME
HENRY KING-SHIELDS LAKE

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE*	CORE SAMPLE NUMBER	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
DM	TO						FROM	TO		Cu	Au	Ag
0	5.0	CASING			NO					0%	02/TON	02/TON
5.0	267.0	ULTRAMAFIC LAVA	<p>FINE GRAINED, DARK GREEN TO GREEN BLACK IN COLOUR, HIGHLY ALTERED (SERPENTINIZATION AND CARBONATIZATION)</p> <p>- CHARACTERIZED BY A DENSE, RANDOM NETWORK OF HIGHLY IRREGULAR & DISCORDANT CARBONATE, FELDSPAR/CARBONATE AND SERPENTINE/CARBONATE STRINGERS, LENSES, PODS & VEINLETS IN A DARK GREEN, HIGHLY SERPENTINIZED MATRIX.</p> <p>- PERIODICALLY THE ROCK EXHIBITS A WEAKLY DEVELOPED SPINIFEX TEXTURE</p> <p>- IN THE MORE HIGHLY SERPENTINIZED FRACTIONS, TINY SUBHEDRAL GRAINS OF MAGNETITE (4-5%) ARE DISSEMINATED EVENLY THROUGHOUT.</p> <p>- SUBORDINATE AMOUNTS OF PYRITE AND PYRRHOTITE (LESS THAN 1% COMBINED) ARE COMMON THROUGHOUT. OCCASIONALLY A FEW GRAINS OF CHALCO-PYRITE OCCUR IN THE CARBONATE VEINLETS</p> <p>- FROM 240.2 TO 244.7 THE ROCK IS INTENSELY SILICIFIED AND CONSISTS OF A SERIES OF NARROW, CLOSELY SPACED IRREGULAR-SHAPED QUARTZ VEINS CONTAINING PYRITE, CHALCOPYRITE & MOLYBDENITE. THE SULPHIDES OCCUR MAINLY WITHIN MAFIC INCLUSIONS AND CHLORITE-FILLED FRACTURES IN THE QUARTZ VEINS AND TO A LESSEER DEGREE WITHIN THE QUARTZ ITSELF. TOTAL SULPHIDE CONTENT AVERAGES 5-7% OVER THE SILICEOUS SECTION. QUARTZ VEIN CONTACT FORM ANGLES OF 25° TO 35° TO LONG AXIS OF CORE</p> <p>- FROM 263.5 TO 267.0, PYRITE RICH CONTACT ZONE CONTAINS SULPHIDES (ESSENTIALLY PYRITE) AVERAGING 15-20%.</p> <p>- FROM 269.0-269.7 THE ULTRAMAFIC LAVA IS</p>									
					008	1401	240.2	242.7	2.5	.42	.001	.98
					078	1402	242.7	244.7	2.0	.08	.002	.86
					035	1403	259.0	261.0	2.0	.06	4.001	
					047	1404	261.0	263.0	2.0	.01	.002	
					011	1405	263.0	265.0	2.0	.11	4.001	
					023	1406	265.0	267.0	2.0	.14	4.001	

* such as foliation, bedding, schistosity, measured from the long axis of the core.

+ Additional credit available. See Assessment Book

Summary of Diamond Drilling
on Mineral Claim L 387777
Larder Lake Mining Division, Ontario
during June, July & August, 1977

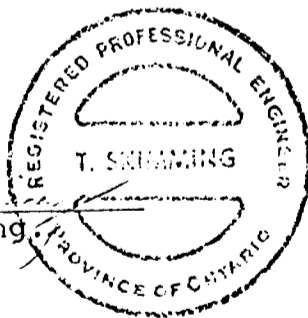
<u>Drill Hole Number</u>	<u>Coordinates of Collar</u>	<u>Bearing Azimuth</u>	<u>Dip at Collar</u>	<u>Length in Feet</u>
SL-1	2+00N 2+80E	200°	-45°	390.0
SL-2	0+10S 0+40W	020°	-45°	80.0
SL-2A	0+40S 1+05W	020°	-50°	328.0
SL-3	0+10S 4+20E	200°	-45°	218.0
SL-4	1+75N 0+30W	200°	-45°	280.0
SL-5	5+80N 10+00E	180°	-45°	180.0
Total footage:				<u>1,476.0</u>

Notes:

- 1) Drilling was carried out under contract by Forage Berco Ltée. (L.R.P.), Val D'or, Quebec.
- 2) Equipment used - BQ wireline (1.4" diameter core)
- 3) Drilling was carried out between June 5 and August 14, 1977.

Thomas Skimming
Thomas Skimming, P.Eng.

September 20, 1977





THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. SL-1 PAGE NO. 2 CLAIM NO.

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT COLLAR	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.	
HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY THOMAS SKIMMING		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	PROPERTY NAME	
OPERATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft				
					ft				

FOOTAGE FM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +			
						FROM	TO		Cu %	Au oz/TON	Ag oz/TON	
		DISSECTED BY A DARK GREY COLOURED, FINE GRAINED, FELDSPAR PORPHYRY DIKE.		MO %								
267.0	275.0	SILICEOUS (QUARTZ) ZONE										
		CONSISTS PRINCIPALLY OF A WHITE TO GREY COLOURED BULL QUARTZ WHICH CONTAINS NUMEROUS CHLORITE AND/OR BIOTITE-FILLED FRACTURES AND A FEW SCATTERED PINK FELDSPAR INCLUSIONS. FRAGMENT OF SYENITE AND CRYSTALS OF FLUORITE (DEEP PURPLE) ARE INCLUDED IN THE QUARTZ FROM 273.5 TO 275.0 - CHALCOPYRITE (2 TO 3%) EXHIBITING A PRONOUNCED FRACTURE CONTROL OCCURS THROUGHOUT THE ENTIRE SILICEOUS ZONE. ACCESSORY PYRITE (APPR 1%) OCCURS IN THE FINER GRAINED FRACTION OF THE SILICEOUS ZONE, NOTABLY AROUND 274.0										
275.0	277.5	DACITE										
		FINE GRAINED, GREENISH BROWN IN COLOUR, MASSIVE (FEATURELESS). CONTAINS A FEW WISPY STRINGERS OF CHLORITE AND/OR BIOTITE. FINE GRAINED PYRITE (5-7% AVERAGE) OCCURS EVENLY DISSEMINATED THROUGHOUT THE DACITE.										
277.5	286.0	SYENITE										
		MEDIUM TO COARSE GRAINED, PINK TO ORANGE-RED IN COLOUR, MASSIVE GENERALLY, BUT IN PART PORPHYRITIC CHARACTERIZED BY A HIGH DENSITY OF NARROW, IRREGULAR, RANDOMLY ORIENTED STRINGERS, VEINLETS, PINPOINTS AND INCLUSIONS OF QUARTZ TOGETHER WITH A LARGE NUMBER OF CHLORITE AND/OR BIOTITE FILLED FRACTURES. - CHEMICAL LEACHING IS EVIDENT ALONG SOME FRACTURES - PYRITE (3-5%) IS UBIQUITOUS AND OCCURS THROUGHOUT AS FINELY DISSEMINATED CRYSTALS. - CHALCOPYRITE (LESS THAN 1%) IS INTIMATELY ASSOCIATED WITH THE QUARTZ IN ITS VARIOUS FORMS.										

+ Additional credit available. See Assessment and Reporting.

Core length is not necessarily measured from the long axis of the core.



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

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HOLE NO. 51-1
PAGE NO. 3
CLAIM NO.

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.	
HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY				LOCATION (Tp., Lot, Con. OR Lat. and Long.)		
CORPORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)				PROPERTY NAME		

FOOTAGE M TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
						FROM	TO		Cu %	Au OZ/TON	Ag OZ/TON
286.0	292.0	DACITE		(Mo) % .003	1413	290.0	292.0	2.0	.01	<.001	.08
		FINE GRAINED, GREENISH BROWN TO LIGHT GREENISH GREY IN COLOUR. IDENTICAL TO THAT DESCRIBED FROM 275.0 TO 277.5 - PYRITE (4-5%) OCCURS EVENLY DISTRIBUTED THROUGHOUT THE DACITE.									
292.0	294.0	SILICEOUS (QUARTZ) ZONE		.018	1414	292.0	294.0	2.0	.50	<.001	.44
		SAME AS THAT DESCRIBED FROM 267.0 TO 275.0 CHALCOPYRITE OCCURS IN A SIMILAR MANNER TO THE PREVIOUSLY DESCRIBED SECTION, NOTABLY AROUND 292.5 WHERE IT ATTAINS ITS HIGHEST CONCENTRATION									
294.0	312.0	DACITE		.007	1415	294.0	296.5	2.5	.03	<.001	.06
		FINE GRAINED, GREY TO LIGHT BROWNISH GREY, MASSIVE, IDENTICAL TO THAT DESCRIBED PREVIOUSLY - FROM 301.0 TO 302.0 THE DACITE IS BRECCIATED - DACITE FRAGMENTS (ANGULAR) ARE CEMENTED BY WHITE-COLOURED CALCITE. - PYRITE (AVERAGING 4-5%) FINE GRAINED, OCCURS EVENLY DISSEMINATED THROUGHOUT THE DACITE.									
312.0	317.0	SYENITE PORPHYRY									
		MEDIUM TO COARSE GRAINED, PINK TO ORANGE-RED IN COLOUR, PORPHYRITIC. - CONTAINS NUMEROUS QUARTZ VEINLETS AND IS VARIOUSLY SILICIFIED - IDENTICAL TO THAT DESCRIBED FROM 277.5 TO 281.0 BUT WITH A LESSER SULPHIDE CONTENT.									
317.0	390.0	DIPRASE									
		GREY TO GREENISH GREY IN COLOUR, MEDIUM TO COARSE GRAINED, CHILLED CONTACT, MOTTLED APPEARANCE, PROMINENT OPHITIC TEXTURE CONSISTS OF RANDOMLY ORIENTED, LIGHT GREENISH COLOURED LATHS OF FELDSPAR IN A DARK COLOURED									

+ Additional credit available. See Assessment work regulations.



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO. <i>SL-1</i>	PAGE NO. <i>4</i>
CLAIM NO.	

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.		
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY <i>THOMAS SKIMMING</i>		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	PROPERTY NAME		
LOCATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft					
					ft					

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +	
DM	TO						FROM	TO			
			<p><i>MAFIC (HORNBLende & CHLORITE) MATRIX.</i></p> <p><i>- BOTH MAGNETITE & PYRITE OCCUR AS ACCESSORY MINERALS (2-3% COMBINED) AS DISSEMINATED, SUBHEDRAL GRAINS AND PERIODICALLY ALONG CHLORITE-FILLED FRACTURES</i></p> <p><i>- MODERATE EPIDOTE ALTERATION OF THE FELDSPAR OCCURS THROUGHOUT.</i></p> <p><i>- FROM 317.0 TO 325.0 (THE CHILLED CONTACT ZONE) THERE IS A GRADUAL INCREASE IN GRAIN SIZE FROM A FINE GRAINED ANDIANTIC ROCK TO A TYPICAL COARSE GRAINED VARIETY OF DIABASE.</i></p>								
			<i>390.0' END OF HOLE</i>								

Thomas Skimming

* Values such as foliation, bedding, schistosity, measured from the longitudinal axis of the core.

+ Additional credit available. See Assessment Worksheet



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE HOLE NO. SL-2 PAGE NO. 1

DRILLING COMPANY FORAGE BERCO LTÉE		COLLAR ELEVATION —	BEARING OF HOLE FROM TRUE NORTH 020°	TOTAL FOOTAGE 80.0	DIP OF HOLE AT collar -45	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM CLAIM L 387777 DDH SL-2 POST 3 260'E	MAP REFERENCE NO. M 241	CLAIM NO. L 387777
HOLE STARTED JUNE 24, 1977	DATE COMPLETED JUNE 26, 1977	DATE LOGGED JUNE 29/77	LOGGED BY THOMAS SKIMMING	ft	ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.) POWELL TWP. (LAT. 48°00'15"N - LONG. 80°41'30"W)	
LOCATION CO., OWNER OR OPTIONEE GEMEX MINERALS, INC		DATE SUBMITTED	SUBMITTED BY (Signature) <i>Thomas Skimming</i>	ft	ft		PROPERTY NAME HENRY KING-SHIELDS LAKE	
				ft	ft			

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
DM	TO						FROM	TO		(Cu)%	(Au)oz/t	(Ag)oz/t
0	10.0	CASING										
10.0	45.0	DACITE	FINE TO MEDIUM GRAINED, GREENISH GREY TO GREENISH BROWN IN COLOUR, MAINLY MASSIVE WITH SOME NARROW TUFFACEOUS INTERLAYERS. IN PART THE DACITE EXHIBITS A PSEUDOSPINFELX TEXTURE. PYRITE OCCURS IN SUBORDINATE AMOUNTS (LESS THAN 1%) AS FRACTURE FILLING. THE DACITE BECOMES PROGRESSIVELY MORE FRACTURED AND ALTERED (SILICIFICATION) FROM 37.0 TO 45.0, THE FOOTWALL CONTACT									
45.0	80.0	SYENITE	MEDIUM GRAINED WITH SOME COARSE GRAINED FRACTIONS, PINK TO GREYISH PINK IN COLOUR, EQUIGRANULAR, MASSIVE CONTAINS NUMEROUS INCLUSIONS AND NARROW STRINGERS OF SECONDARY QUARTZ. BIOTITE & PYRITE (UP TO 10% COMBINED) OCCUR ALONG INTERGRAIN BOUNDARIES. FLUORITE OCCURS INTERMITTENTLY THROUGHOUT IN A SIMILAR MANNER AS WELL AS FRACTURE FILLING AND ALLIED WITH QUARTZ IN STRINGERS AND VEINLETS. LOCALLY THE SYENITE IS HEAVILY FRACTURED. FROM 47.0 TO 53.0 - GROUND CORE " 57.0 TO 58.0 - " " " 60.0 TO 80.0 - " "			1445	45.0	60.0	15.0	0.01	1.001	0.00
NOTE: FROM 55.0 TO 80.0, THE HIGHLY FRACTURED NATURE OF THE ROCK RESULTED IN CONSIDERABLE "CAVE" IN THE HOLE, WHICH NECESSITATED THE HOLE HAVING TO BE ABANDONED AT 80.0 FEET												
80.0 END OF HOLE												

Thomas Skimming



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

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HOLE NO. SL-2A PAGE NO. 1

DRILLING COMPANY FORAGE BERCO LTÉE		COLLAR ELEVATION —	BEARING OF HOLE FROM TRUE NORTH 020°	TOTAL FOOTAGE 328.0	DIP OF HOLE AT collar -50	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM CLAIM L387777 DDH SL-2A POST 3 195'E	MAP REFERENCE NO. M 241	CLAIM NO. L387777
DATE HOLE STARTED JUNE 27, 1977	DATE COMPLETED JULY 7, 1977	DATE LOGGED JULY 9/77	LOGGED BY THOMAS SKIMMING	328 ft	-46		LOCATION (Tp., Lot, Con. OR Lat. and Long.) POWELL TWP LAT. 48°00'15" N. LONG. 80°41'30" W.	
LOCATION CO., OWNER OR OPTIONEE GEMEX MINERALS, INC.		DATE SUBMITTED	SUBMITTED BY (Signature) <i>Thomas Skimming</i>	ft	ft		PROPERTY NAME HENRY KING-SHIELDS LAKE	

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS †
FROM	TO						FROM	TO		
0	10.0	CASING								
10.0	276.5	DIABASE	<p>GREY TO GREENISH GREY IN COLOUR, MAINLY COARSE GRAINED WITH SOME FINE GRAINED SECTIONS, MOTTLED APPEARANCE, PRONOUNCED OPHITIC TO SUB OPHITIC TEXTURE. CONSISTS OF RANDOMLY ORIENTED, LIGHT GREENISH COLOURED LATHS OF FELDSPAR IN A DARK COLOURED MAEIG (HORNBLLENDE & CHLORITE) MATRIX. BOTH PYRITE AND MAGNETITE OCCUR AS ACCESSORY MINERALS (ABOUT 1% COMBINED) AS DISSEMINATED CRYSTALS AND PERIODICALLY ALONG CHLORITE-FILLED FRACTURES.</p> <p>- FROM 74.0 TO 103.0, THE OPHITIC TEXTURE AND/OR MOTTLED APPEARANCE IS LESS PRONOUNCED.</p> <p>- FROM 105.0 - 112.0, DIABASE IS HEAVILY FRACTURED.</p> <p>- FROM 112.0 - 116.5, GROUND CORE.</p> <p>- FROM 194.0 - 200.0, DIABASE IS INTENSELY BRECCIATED & ALTERED (CHLORITIZATION) AND CONTAINS NUMEROUS FRAGMENTS OF SECONDARY, MILKY-COLOURED, QUARTZ.</p> <p>EPIDOTE-FILLED FRACTURES AND EPIDOTIZATION OF FELDSPAR ARE COMMON FROM 150.0 TO 276.5</p> <p>- FROM 215.0 TO 276.5 THERE IS A GRADUAL DECREASE IN THE GRAIN SIZE OF THE DIABASE, REFLECTING A CHILLED CONTACT MARGIN. AT 276.5 THE ROCK IS VERY FINE GRAINED (APHANITIC) AND EXHIBITS A PORPHYRITIC TEXTURE, RESULTING FROM A FEW SLATTERED PHENOCRYSTS OF LIGHT COLOURED FELDSPAR IN A DARK GREY TO BLACK GROUNDMASS.</p> <p>- UNALTERED FELDSPAR & QUARTZ FELDSPAR-FILLED FRACTURES ARE COMMON IN THE FINE GRAINED FRACTION OF THE DIABASE FROM 250.0 TO 276.5</p>							



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

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HOLE NO. SL-2A PAGE NO. 2

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	PROPERTY NAME
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
					ft			

FOOTAGE FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +	
							FROM	TO		(Au)oz/t	(Ag)oz/t
276.5	288.5	SYENITE	PINK TO PINKISH ORANGE IN COLOUR, MEDIUM TO COARSE GRAINED, HIGHLY ALTERED (SILICIFICATION). IN THE MORE SILICEOUS FRACTIONS, CONSISTS OF CORRODED FELDSPAR CRYSTALS & CRYSTAL AGGREGATES IN A MILKY QUARTZ MATRIX. THE SYENITE CONTAINS SCATTERED, RANDOMLY ORIENTED, SECONDARY QUARTZ STRINGERS. ACCESSORY PYRITE OCCURS THROUGHOUT.	40°							
						1454	276.5	281.5	5.0	.003	.02
						1455	281.5	286.5	5.0	.001	.01
288.5	289.5	DIABASE	DARK GREY TO BLACK, FINE GRAINED, CHILLED, SLIGHTLY FRACTURED - IDENTICAL TO FINE-GRAINED FRACTION OF DIABASE AT 275.0 ABOVE. - SOME SHEARING & ASSIMILATION AT THE CONTACT (288.5) WITH THE SYENITE. CONTACT FORMS AN ANGLE OF 45° TO LONG AXIS OF CORE	45°							
289.5	291.5	ULTRAMAFIC LAVA	DARK GREEN TO GREENISH BLACK, FOLIATED, HIGHLY SERPENTINIZED & CARBONATIZED. CONTAINS 10-15% COMBINED PYRITE AND PYRRHOTITE.								
291.5	301.7	PORPHYRITIC SYENITE	FINE TO MEDIUM GRAINED, DARK RUST RED IN COLOUR. CONSISTS OF LOOSELY PACKED, LIGHT-COLOURED, EUBEDRAL FELDSPAR PHENOCRYSTS IN A FINE GRAINED, DARK RUST RED, FELDSPATHIC MATRIX. PHENOS REPRESENT APPROX. 10-15% OF THE SYENITE. HORNBLende & CHLORITE OCCUR AS FRACTURE FILLING AND ALSO AS SMALL RAGGED PHENOS. ASSIMILATION OF THE ULTRAMAFIC LAVA IS EVIDENT AT BOTH CONTACTS. - FOOTWALL CONTACT FORMS AN ANGLE OF 55° TO THE LONG AXIS OF THE CORE.	55°							



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

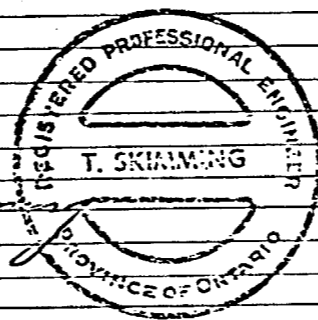
Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE → HOLE NO. **SL-2A** PAGE NO. **3**

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.	
HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)		
LOCATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft		PROPERTY NAME		
					ft				

FOOTAGE DM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE †	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS †	
						FROM	TO			
301.7	304.0	ULTRAMAFIC LAVA								
		DARK GREEN TO GREENISH BLACK, INTENSELY ALTERED (SERPENTINIZATION & CARBONATIZATION) SAME AS THAT FROM 289.5 TO 291.5 CONTAINS ABOUT 1% PIRATE & PYRROPHOTITE. MAGNETITE IS COMMON THROUGHOUT.								
304.0	308.0	DIABASE								
		DARK GREY TO BLACK, FINE GRAINED, SAME AS THAT DESCRIBED FROM 288.5 TO 289.5								
308.0	310.0	ULTRAMAFIC LAVA								
		DARK GREEN TO GREENISH BLACK, SERPENTINIZED. SAME AS THAT DESCRIBED PREVIOUSLY.								
310.0	328.0	DIABASE								
		DARK GREY TO GREENISH BLACK, FINE TO MEDIUM GRAINED. SAME AS THAT DESCRIBED PREVIOUSLY FROM 250.0 TO 276.5, 288.5 TO 289.5 AND 304.0 TO 308.0.								
		328.0 END OF HOLE								

Thomas Skimming





THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

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HOLE NO. SL-3 PAGE NO. 1

DRILLING COMPANY FORAGE BERCO LTÉE		COLLAR ELEVATION —	BEARING OF HOLE FROM TRUE NORTH 200°	TOTAL FOOTAGE 218.0	DIP OF HOLE AT collar -45	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM 	MAP REFERENCE NO. M 241	CLAIM NO. L 387777
DATE HOLE STARTED JULY 9, 1977	DATE COMPLETED JULY 17, 1977	DATE LOGGED JULY 20/77	LOGGED BY THOMAS SKIMMING	ft	ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.) PONELL TWP LAT. 48°00'15" N LONG. 80°41'30" W	PROPERTY NAME HENRY KING - SHIELDS LAKE
CORPORATION CO., OWNER OR OPTIONEE GEMEX MINERALS, INC.		DATE SUBMITTED	SUBMITTED BY (Signature) 		ft			

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SAMPLE FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS *			
						FROM	TO		CU %	AU	Ag	
2	15.0	CASING		Mo %								
15.0	60.5	RHYODACITE			1416	40.0	45.0	5.0	.01	.002	.02	
		FINE GRAINED, LIGHT GREY TO GREENISH GREY IN COLOUR, MAINLY MASSIVE, OCCASIONALLY PORPHYRITIC. LOCALLY EXHIBITS COARSE BEDDING AND/OR FLOW BANDING. CHARACTERIZED BY A PRONOUNCED FRACTURED APPEARANCE DUE TO THE PRESENCE OF A MYRIAD OF HAIRLINE FRACTURES CONTAINING A FINE GRAINED MIXTURE OF CHLORITE AND HORNBLende. QUARTZ AND QUARTZ-CARBONATE STRINGERS & VEINLETS ARE COMMON THROUGHOUT. PERIODICALLY, CHALCOPYRITE (IN ACCESSORY AMOUNTS) OCCURS IN THE QUARTZ STRINGERS.		.004	1417	45.0	50.0	5.0	.01	.002	.02	
		— PYRITE IS COMMON THROUGHOUT AND ATTAINS CONSIDERABLE PROPORTIONS. THE PYRITE OCCURS MAINLY AS DISCREET, ISOLATED MINERAL GRAINS DISSEMINATED EVENLY THROUGHOUT THE RHYODACITE. IT ALSO OCCURS TO A MUCH LESSER DEGREE ALONG FRACTURES AND IN QUARTZ AND QUARTZ-CARBONATE STRINGERS AND VEINLETS			1418	50.0	55.0	5.0	.01	.022	.02	
		SULPHIDE ESTIMATES: — FROM 15.0 TO 38.5, RHYODACITE CONTAINS AN AVERAGE OF 3-5% PYRITE WITH MINOR CHALCOPYRITE. PYRITE IS FINE TO VERY FINE GRAINED.			1419	55.0	60.0	5.0	.01	.004	.01	
		— FROM 38.5 TO 40.0, QUARTZ VEIN CONTAINING VISIBLE, BUT SUBORDINATE AMOUNTS OF CHALCOPYRITE & MOLYBDENITE, NEARLY ALONG THE CONTACTS.		.001	1446	38.5	40.0	1.5	.18	6.001	.01	
		— FROM 40.0 TO 48.0, RHYODACITE CONTAINS APPROXIMATELY 4-5% FINE GRAINED, DISSEMINATED PYRITE										

* Additional credit available. See Assessment work sheet.



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

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HOLE NO. **SL-3** PAGE NO. **2**

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.	
HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY				LOCATION (Tp., Lot, Con. OR Lot. and Long.)		
LOCATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)				PROPERTY NAME		

FOOTAGE DM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
						FROM	TO		Cu %	Au oz/ton	Ag oz/ton
		- FROM 48.0 TO 60.5, PYRITE CONTENT AVERAGES 7-10% OVERALL. IT OCCURS MAINLY AS INDIVIDUAL DISSEMINATED GRAINS (FINE GRAINED) WITH A FEW SCATTERED, COARSE GRAINED CLUSTERS.		Mo %							
60.5	64.0	SILICEOUS ZONE		.012	1431	60.0	64.0	4.0	.06	.006	.18
		CONSISTS OF A SERIES OF CLOSELY SPACED, NARROW, RANDOMLY ORIENTED QUARTZ VEINLETS RIBBONS AND STRINGERS WITHIN A HIGHLY ALTERED (SILICIFICATION & CHLORITIZATION) RHYODACITE. SMALL, UNALTERED FRACTIONS OF THE SECTION ARE SIMILAR TO THE RHYODACITE DESCRIBED PREVIOUSLY FROM 15.0 TO 60.5. PYRITE IS COMMON THROUGHOUT (AVERAGES 5-7%). CHALCOPYRITE & MOLYBDENITE OCCUR SELECTIVELY IN THE QUARTZ STRINGERS AND IN THE HIGHLY SILICEOUS FRACTIONS. HIGHEST CONCENTRATION OF CHALCOPYRITE & MOLYBDENITE OCCURS AT 61.0 WITHIN A 9" QUARTZ VEINLET WHERE MOLYBDENITE CONTENT IS APPROXIMATELY 1/2% AND THE CHALCOPYRITE ABOUT THE SAME.	30°								
64.0	66.0	MIGMATITE (INJECTION GNEISS)									
		CONSISTS OF AN ABUNDANCE OF COARSE GRAINED LENTICULAR, HIGHLY IRREGULAR QUARTZ-FELDSPAR BANDS, RIBBONS AND FRAGMENTS WITHIN A FINE GRAINED, DARK GREEN, VOLCANIC MATRIX. THE ROCK EXHIBITS A CRUDE GNEISSIC AND/OR PTYGMATIC TEXTURE. CRUDE, RECENT FLOW LINES ARE EVIDENT. THE MIGMATITE IS TYPICALLY UNMINERALIZED. ONLY A FEW SCATTERED GRAINS OF PYRITE OCCUR ALONG THE GNEISSOSITY PLANES.									

+ Additional credit available. See Assessment work regulations.



THE MINING ACT - DEPARTMENT OF MINES
 DIAMOND DRILLING LOG

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HOLE NO. 51-3

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.	
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY <i>THOMAS SKIMMING</i>	ft	ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)		
LOCALITY CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)	ft	ft				
				ft					

FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
							FROM	TO		CU %	AU oz/ton	AG oz/ton
66.0	71.0	FELDSPAR PORPHYRY	MEDIUM GRAINED, LIGHT GREY TO PINK GREY IN COLOUR, PRONOUNCED PORPHYRITIC TEXTURE. CONSISTS OF DENSELY PACKED, LIGHT COLOURED, FELDSPAR PHENOCRYSTS IN AN APLHANITIC, RHYODACITIC GROUNDMASS. PHENOCRYSTS (ABOUT 40% OF ROCK) VARY IN SIZE FROM 1/32" TO 1/2" DIAMETER. INCLUSIONS OF SYENITE AND QUARTZ STRINGERS ARE COMMON AROUND 68.0'. - BIOTITE OCCURS ALONG NUMEROUS FRACTURES IN THE PORPHYRY, WRAPPED AROUND PHENOCRYSTS AND AS ISOLATED CLUSTERS OF FLAKES. - QUARTZ VEINLETS ARE COMMON THROUGHOUT. - PYRITE (3-5%) OCCURS TOGETHER WITH CHALCO-PYRITE (1%) ALONG BIOTITE-FILLED FRACTURES, IN QUARTZ STRINGERS AND DISSEMINATED THROUGHOUT THE PORPHYRY AS INDIVIDUAL GRAINS OR CRYSTALS AND AS CRYSTAL CLUSTERS. - FROM 70.2 TO 71.0, THE ROCK CONSISTS ESSENTIALLY OF A FINE GRAINED MASS OF BIOTITE, IS NON PORPHYRITIC AND CONTAINS 10-15% PYRITE. THERMALLY ALTERED CONTACT ZONE?	40°	(Mo)% .002	1432	66.0	71.0	5.0	.08	.002	.10
71.0	73.0	MIGMATITE	SAME AS THAT DESCRIBED FROM 64.0 TO 66.0 - QUARTZ-FELDSPAR BANDS LESS DENSE THAN IN PRECEDING SECTION.	22°			MIGMATITE/SYENITE CONTACT - 22° TO LONG AXIS CORE					
73.0	102.5	FELDSPAR PORPHYRY	MEDIUM GRAINED, GREY TO PINK GREY IN COLOUR, MOTTLED APPEARANCE, PORPHYRITIC. CONSISTS OF DENSELY PACKED, LIGHT COLOURED, FELDSPAR PHENOCRYSTS (VARIABLE IN SIZE, 1/16" TO 1/2") WITH A LESSER QUANTITY OF BIOTITE PHENOCRYST. - QUARTZ STRINGERS, VEINLETS AND ZONES OF		.001 .001	1433 1434 1435 1436 1437 1438 1439	73.0 79.0 81.5 86.5 91.5 96.5 99.5	78.0 81.5 86.5 91.5 96.5 99.5 102.5	5.0 3.5 5.0 5.0 5.0 3.0 3.0	.02 .04 .002 2.001 .001 .001 .003	.002 .04 .002 .001 .001 .001 .003	.03 .04 .002 .001 .001 .002 .021

+ Additional credit available. See Assessment work Regulations.



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DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

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HOLE NO. SL-3 PAGE NO. 4 CLAIM NO.

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.		
HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)			
EXPLORATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft					
					ft					
					ft		PROPERTY NAME			

FOOTAGE DM TO	ROCK TYPE ¹	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE +	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
						FROM	TO				
		<p>SILICIFICATION ARE COMMON.</p> <p>- PORPHYRY COMMONLY EXHIBITS A PINK TO RUST RED DISCOLOURATION (OXIDATION) ALONG FRACTURES, QUARTZ VEINS & ZONES OF SILICIFICATION.</p> <p>- DISSEMINATED PYRITE (2-3%) IS DISTRIBUTED EVENLY THROUGHOUT.</p> <p>- SUBORDINATE AMOUNTS OF CHALCOPYRITE OCCUR SELECTIVELY IN QUARTZ VEINLETS</p> <p>- FROM 73.0 TO 77.5, THE PORPHYRY EXHIBITS CONTACT THERMAL ALTERATION AND IS CHARACTERIZED BY A HIGH DEGREE OF FRACTURING AND AN ABNORMALLY HIGH BIOTITE CONTENT. PYRITE (3-5%) OCCURS IN ASSOCIATION WITH BIOTITE ALONG FRACTURES.</p> <p>- FROM 78.0 TO 81.5, A MILKY QUARTZ VEIN CONTAINING RANDOM CLUSTERS OF COARSE GRAINED BIOTITE WHICH CONTAINS VISIBLE CHALCOPYRITE. CHALCOPYRITE ALSO OCCURS ALONG FRACTURES IN QUARTZ VEIN.</p> <p>- FROM 90.0 TO 99.7 THE PORPHYRY IS HIGHLY SILICIFIED AND CONTAINS AN ABNORMALLY HIGH BIOTITE CONTENT.</p> <p>- INCLUSIONS OF MAFIC VOLCANICS (ANDESITE) FROM 94.0 TO 96.5 AND 99.7 TO 102.5 CHARACTERIZED BY A HIGH PYRITE CONTENT (20-25%) DARK COLOUR DUE TO ABNORMALLY HIGH BIOTITE CONTENT.</p>									
102.5	117.0	MIGMATITE									
		<p>SAME AS THAT DESCRIBED FROM 64.0 TO 66.0</p> <p>LOCALLY, THE MIGMATITE EXHIBITS A LIGHT GREENISH CASTE DUE TO EPIDOTE ALTERATION OF EPIDIORITE</p> <p>- FROM 103.0 TO 104.5 GROUND CORE</p>									



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HOLE NO. **SL-3** PAGE NO. **5**

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT COLLAR	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY				LOCATION (Tp., Lot, Con. OR Lat. and Long.)	
LOCALITY CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)				PROPERTY NAME	

FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
							FROM	TO		Cu %	Au oz/TON	Ag oz/TON
117.0	121.0	ANDESITE	FINE GRAINED, DARK GREEN TO BROWN BLACK MASSIVE - CHARACTERIZED BY A HIGH BIOTITE CONTENT WHICH ACCOUNTS FOR THE DARK COLOUR OF THE ROCK. PYRITE (AVERAGE 15-20%) OCCURS EVENLY DISTRIBUTED THROUGHOUT.		(Mo) % .001	1420	118.0	121.0	3.0	.01	.003	.04
121.0	132.5	FELDSPAR PORPHYRY	SAME AS THAT DESCRIBED FROM 73.0 TO 102.5 - SILICIFICATION AND BIOTITE ALTERATION IS PERVASIVE. - TYPICALLY CONTAINS 2-3% DISSEMINATED PYRITE THROUGHOUT. - SUBORDINATE AMOUNTS (<1%) OF CHALCOPYRITE AND MOLYBDENITE OCCUR SPARINGLY WITHIN ZONES OF SILICIFICATION AND QUARTZ STRINGERS. - MAJORITY OF VISIBLE MOLYBDENITE OCCURS FROM 127.0 TO 132.5		.003 .002 .010	1421 1422 1423	121.0 125.0 130.0	125.0 130.0 132.5	4.0 5.0 2.5	.01 .01 .001	.003 .002 .001	.06 .03 .04
132.5	136.5	MIGMATITE	SAME AS THAT DESCRIBED FROM 64.0 TO 66.0									
136.5	146.0	FELDSPAR PORPHYRY	SAME AS THAT DESCRIBED FROM 73.0 TO 102.5 INTENSELY ALTERED (MAINLY SILICIFICATION). IN PLACES THE IDENTITY OF THE PORPHYRY IS DESTROYED AND THE ROCK CONSISTS OF A FINE GRAINED MASH OF QUARTZ AND FELDSPAR. SULPHIDE CONTENT (ESSENTIALLY PYRITE) IS VARIABLE BUT OVERALL AVERAGES 4-5% - SUBORDINATE AMOUNTS OF VISIBLE MOLYBDENITE OCCUR THROUGHOUT, WITH PREFERENCE FOR ZONES OF SILICIFICATION. CHALCOPYRITE OCCURS IN A SIMILAR MANNER TO THE MOLYBDENITE. - DARK PURPLE FLUORITE OCCURS GENERALLY WITH CARBONATE (MALCOLITE) WITH QUARTZ STRINGERS.		.004 .004 .018	1424 1425 1426	135.0 140.0 143.0	140.0 143.0 146.0	5.0 3.0 3.0	N/A .01 .13	.006 .005 .004	.07 .10 .14

+ Additional credit available. See Assessment and Regulations.

Measurements of distance, depth, or thickness measured from the longitudinal axis of the core.



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

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HOLE NO. 51-3 PAGE NO. 6

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.	
HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY				LOCATION (Tp., Lot, Con. OR Lat. and Long.)		
OPERATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)				PROPERTY NAME		

FOOTAGE M TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SACCHMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS †				
						FROM	TO		CU %	AU oz/TON	Ag oz/TON		
146.0	162.0	SYENITE PORPHYRY											
		FINE GRAINED, REDDISH BROWN IN COLOUR, PORPHYRITIC. CONSISTS OF SMALL, LOOSELY PACKED, LIGHTLY COLOURED PHENOCRYSTS IN A FINE GRAINED, ALMOST ANANITIC FELDSPATHIC MATRIX											
		- PHENOCRYST COMPRISE ABOUT 5% OF THE ROCK AND ARE CONSISTENTLY QUITE SMALL - LESS THAN 1/4" DIAMETER											
		- FROM 146.0 TO 151.0, THE PORPHYRY IS BLEACHED AND NOTABLY GREY IN COLOUR											
		- PYRITE OCCURS ONLY IN SUBORDINATE AMOUNTS (21%)											
162.0	218.0	SYENITE											
		MEDIUM TO COARSE GRAINED, PINK TO ORANGE-RED, MASSIVE GENERALLY, IN PART PORPHYRITIC. CONTAINS AN ABUNDANCE OF QUARTZ RIBBONS, STRINGERS AND IS VARIOUSLY SILICIFIED - IN PLACES THE SYENITE IS ALMOST TOTALLY REPLACED BY QUARTZ AND IS REPRESENTED BY VESTIGES OF SYENITE IN A GRANULAR, GREY QUARTZ MATRIX											
		- PERIODICALLY THE SYENITE CONTAINS A DEEP PURPLE FLUORITE, PARTICULARLY FROM 162.0 - 175.0				1443	164.5	167.5	3.0		.002	.01	
		- FROM 167.5 TO 169.5, A COARSE GRAINED BIOTITE ZONE (40-50% BIOTITE) IS PRESENT WITHIN THE SYENITE AND CONTAINS SEVERAL COARSE GRAINED CALCITE/FLUORITE (DEEP PURPLE) STRINGERS AND SEGREGATIONS. ZONE ALSO CONTAINS 10-15% PYRITE				1442	167.5	169.5	2.0	.01	.001	.01	
		- @ 170.5 A SMALL 3" WIDE BIOTITE-RICH ZONE CONTAINING 15% PYRITE				L-001	1444	169.5	172.5	3.0	L-01	.001	.01
		218.0' END OF HOLE											

Thomas Skimming



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HOLE NO. 52-4
CLAIM NO. 7

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.	
HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY				LOCATION (Tp., Lot, Con. OR Lat. and Long.)		
OPERATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)				PROPERTY NAME		

FOOTAGE M	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
							FROM	TO		CU	AU	Ag
					Mo					%	oz/ton	oz/ton
			COARSELY CRYSTALLINE PYRITE OCCURS AS COARSE BANDS AND STRINGERS PARALLEL TO THE RELICT BANDING (FLOW LINES) AND ACCENTUATE THE OVERALL Banded APPEARANCE OF THE ANDESITE. PYRITE CONTENT IN THE ANDESITE AVERAGES 3-4%.		%							
80.0	83.5	QUARTZ ZONE	COARSE GRAINED, MILKY COLOURED, BELL QUARTZ VEIN? CONTAINING A NUMBER OF CHLORITE-FILLED FRACTURES AND FLAKY INCLUSIONS OF CHLORITE. OCCASIONALLY PYRITE OCCURS WITH THE CHLORITE, AND EVEN MORE INFREQUENTLY, CHALCOPYRITE IS PRESENT.									
83.5	117.0	SYENITE	MEDIUM TO COARSE GRAINED, PINK TO GREY IN COLOUR, EQUIGRANULAR, MASSIVE, OCCASIONALLY PORPHYRITIC, INTENSELY ALTERED (MAINLY SILICIFICATION) WITH LESSER CHLORITIC ALTERATION. LOCALLY, THE SYENITE IS COMPLETELY REPLACED BY QUARTZ.									
			- FROM 92.0 - 95.0, SYENITE ALMOST COMPLETELY REPLACED BY QUARTZ AND STRONGLY RESEMBLES A QUARTZ VEIN. THE QUARTZ IS CONSPICUOUSLY SHATTERED AND CONTAINS MINOR QUANTITIES OF VISIBLE CHALCOPYRITE & MALYEDENITE... (APPROXIMATELY 1% COMBINED) ALONG FRACTURES.	.004	1441	91.0	95.0	4.0	.12	.007	.08	
			- FROM 95.5, A 6" WIDE, FINE GRAINED PLATINE DIKE CUTS THE SYENITE.	.008	1440	95.0	100.0	5.0	.09	.007	.11	
					1427	100.0	105.0	5.0		.006	.02	
					1428	105.0	110.0	5.0		.002	.02	
					1429	110.0	114.0	4.0		.002	.02	
					1430	114.0	117.0	3.0		.003	.02	

THE MINING ACT - DEPARTMENT OF MINES
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Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

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HOLE NO. 52-4
PAGE NO. 3

COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	PROPERTY NAME
LOCATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
					ft			

FOOTAGE DM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +	
						FROM	TO			
		<p>FROM 100.0 TO 109.0, THE SYENITE IS INTENSELY SILICIFIED, WHICH FOR THE MOST PART, CONSISTS OF ISLANDS AND VESTIGES OF FELDSPAR CRYSTALS AND SYENITE FRAGMENTS WITHIN A GREY GLASSY QUARTZ. SOME OF THE FELDSPARS IN THIS SECTION HAVE ALTERED TO EPIDOTE AND WHERE THIS HAS OCCURRED, THE SYENITE EXHIBITS A DISTINCT GREENISH TONE. WITHIN THIS SECTION, PYRITE (2-3% AVERAGE) OCCUR WITHIN THE PRESERVED SYENITE FRAGMENTS AND OCCASIONALLY ALONG FRACTURES IN THE SILICIFIED PORTIONS. MINOR QUANTITIES OF CHALCOPYRITE & MOLYBDENITE OCCUR THROUGHOUT THE SECTION.</p> <p>— FROM 109.0 TO 117.0, THE SYENITE IS COMPLETELY REPLACED BY QUARTZ AND FOR ALL INTENT & PURPOSE IS A QUARTZ VEIN. ONLY A FEW SCATTERED, VESTIGIAL FELDSPAR FRAGMENTS OCCUR WITHIN THE QUARTZ. THE SILICEOUS (QUARTZ) ZONE CONTAINS A NUMBER OF CHLORITE-FILLED, HAIRLINE FRACTURES.</p> <p>— SUBORDINATE AMOUNTS OF CHALCOPYRITE AND SOME VISIBLE MOLYBDENITE (1% COMBINED) ARE PRESENT AS FRACTURE FILLING WITHIN THE SILICEOUS ZONE FROM 109.0 TO 117.0</p>								
117.0	135.0	RHYODACITE								
		<p>FINE GRAINED, GREY TO BROWNISH GREY, MASSIVE BUT PERIODICALLY CONTAINS A FEW SCATTERED FELDSPAR AND QUARTZ-EYE PHENOCRYSTS. PYRITE, FINE GRAINED (3-4% AVERAGE CONTENT) OCCURS EVENLY DISTRIBUTED (DISSEMINATED) THROUGHOUT THE RHYODACITE. PYRITE ALSO OCCURS, TOGETHER WITH MINOR AMOUNTS OF</p>								



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

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HOLE NO. SL-14 PAGE NO. 4

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.	
HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY				LOCATION (Tp., Lot, Con. OR Lat. and Long.)		
OPERATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)				PROPERTY NAME		
			THOMAS SKIMMING						

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +	
M	TO						FROM	TO			
			CHALCOPYRITE, ALONG TINY FRACTURES IN THE RHYODACITE AND OCCASIONALLY IN QUARTZ STRINGERS.								
135.0	280.0	DIABASE	MEDIUM TO COARSE GRAINED, GREY TO GREENISH GREY, MOTTLED APPEARANCE, PRONOUNCED OPHITIC TO SUBOPHITIC TEXTURE. CONSISTS OF RANDOMLY ORIENTED, LIGHT GREENISH COLOURED LATHS OF FELDSPAR IN A DARK COLOURED, MAFIC (HORNBLende & CHLORITE) MATRIX. PYRITE AND MAGNETITE OCCUR AS ACCESSORY MINERALS (ABOUT 1% COMBINED) EVENLY DISSEMINATED THROUGHOUT THE DIABASE AND PERIODICALLY ALONG CHLORITE-FILLED FRACTURES. - FROM 135.0 TO 150.0, A GRADUAL INCREASE IN GRAIN SIZE REFLECTS A COOLED MARGIN - IN PLACE, EPIDOTE ALTERATION IS PERVASIVE. - FROM 159.0 TO 162.0 THE DIABASE IS BRECCIATED AND EXHIBITS A PSEUDOCONGLOMERATIC TEXTURE.								
			280.0 END OF HOLE								

Thomas Skimming
REGISTERED PROFESSIONAL ENGINEER
MINING
ONTARIO



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE
HOLE NO. **SL-5** PAGE NO. **1**

DRILLING COMPANY FORAGE BERCO LTEE		COLLAR ELEVATION —	BEARING OF HOLE FROM TRUE NORTH 180°	TOTAL FOOTAGE 180.0	DIP OF HOLE AT collar -45°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM DDH SL-5 POST 3 1300'E	MAP REFERENCE NO. M 241	CLAIM NO. L 387777	
HOLE STARTED AUGUST 5, 1977	DATE COMPLETED AUGUST 14, 1977	DATE LOGGED AUG. 16/77	LOGGED BY THOMAS SKIMMING		ft	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	
LOCATION CO., OWNER OR OPTIONEE GEMEX MINERALS, INC		DATE SUBMITTED	SUBMITTED BY (Signature) <i>Thomas Skimming</i>		ft				
					ft				
							LOCATION (Tp., Lot, Con. OR Lat. and Long.) POWELL TWP LAT. 48°00'15" N. LONG. 80°41'30" W.	PROPERTY NAME HENRY KING - SHIELDS LAKE	

FOOTAGE DM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +		
							FROM	TO		CU %	AU OZ/TON	Ag OZ/TON
0	20.0	CASING										
20.0	67.0	DACITE TUFF	FINE GRAINED, DARK GREY TO BROWNISH GREY IN COLOUR, THINLY BEDDED WITH NARROW, MASSIVE (FEATURE-LESS) ELON INTERLAYERS. FROM 45.0 TO 67.0, THE COMPOSITION VARIES FROM DACITE TO RHYODACITIC. BEDDING IS NOT AS WELL DEFINED IN THE MORE SILICEOUS, RHYODACITIC FRACTIONS. ALTERATION (SILICIFICATION & EPIDOTIZATION) IS PERVASIVE PARTICULARLY ALONG FRACTURES WHERE SILICIFICATION IS PRONOUNCED. BEDDING ATTITUDES: @ 22.0' BEDDING FORMS \angle OF 35° TO LONG AXIS COCF. @ 27.0' " " " \angle OF 40° " " " " @ 58.0' " " " \angle OF 45° " " " " @ 62.0' " " " \angle OF 35° " " " " PYRITE IS UBIQUITOUS IN THE TUFF AND OCCURS IN VARYING AMOUNTS (AVERAGING 2%) THROUGHOUT. IT OCCURS AS FRACTURE FILLING, AS THIN BANDS (LESS THAN 1" WIDE) ALIGNED PARALLEL TO THE BEDDING PLANES AND AS EVENLY DISSEMINATED GRAINS. THE HIGHEST CONCENTRATION OF SULPHIDES, ESSENTIALLY PYRITE, OCCURS FROM 53.0 TO 65.0 WHERE THE PYRITE CONTENT AVERAGES 8-10% AND LOCALLY AS HIGH AS 15-20% (i.e. 54.0, 57.5 & 61.0) IN THE SECTION FROM 53.0 TO 65.0, THE PYRITE IS MUCH COARSER GRAINED THAN USUAL, GENERALLY STRATIFORM IN HABIT AND FORMS CURVE BANDS PARALLEL TO THE TUFF BEDDING PLANES. - FROM 45.0 TO 50.0 GRIND CORE									
						1451	53.0	57.0	4.0	.10	.003	.02
						1452	57.0	61.0	4.0	.22	.002	.02
						1453	61.0	66.0	5.0	.06	.001	.07



THE MINING ACT - DEPARTMENT OF MINES
DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE
HOLE NO. SL-5 PAGE 3

DRILLING COMPANY		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH	TOTAL FOOTAGE	DIP OF HOLE AT collar	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.	
HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY THOMAS SKIMMING		ft		LOCATION (Tp., Lot, Con. OR Lat. and Long.)	PROPERTY NAME	
OPERATION CO., OWNER OR OPTIONEE		DATE SUBMITTED	SUBMITTED BY (Signature)		ft				
					ft				

FOOTAGE FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE *	CORE SPECIMEN FOOTAGE +	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS +	
						FROM	TO			
122.0	180.0	RHYODACITE								
		FINE GRAINED, VARIOUSLY COLOURED IN TONES OF GREY, RUST AND GREEN... SAME AS THAT DESCRIBED PREVIOUSLY. GREEN COLOURATION DUE TO PRESENCE OF ABUNDANT EPIDOTE.								
		- THE ENTIRE SECTION IS INTENSELY ALTERED (MAINLY EPIDOTIZATION) AND FRACTURED AND IN SOME INSTANCES IS ALMOST TOTALLY REPLACED BY EPIDOTE (i.e. 158.0 to 160.0 AND 164.0 to 165.0).								
		- EPIDOTE ALTERATION HAS TAKEN PLACE ALONG FRACTURES AND BEDDING PLANES AND IS ILLUSTRATED CLASSICALLY IN THE SECTION OF CORE FROM 160.0 TO 165.0								
		- PYRITE IS UBIQUITOUS AND OCCURS THROUGHOUT (AVERAGE CONTENT 2%) ALONG EPIDOTE-FILLED FRACTURES AND AS DISCREET, DISSEMINATED GRAINS OR CRYSTALS.								
		- PERIODICALLY, SILICIFICATION AND/OR BLEACHING IS EVIDENT ALONG THE NUMEROUS FRACTURES.								
		- THROUGHOUT MOST OF THE SECTION, THE CORE IS BADLY BROKEN CAUSING POOR RECOVERY								
		- THE FOLLOWING REPRESENTS SECTIONS FOR WHICH NO CORE WAS RECOVERED (GROUND): 134.0 to 139.0; 140.0 to 142.0; 143.0 to 147.0; 150.5 to 152.5 AND 160.0 to 161.5.								
		180.0 END OF HOLE								

Thomas Skimming

