DIAMOND DRILL REPORT

on the

PURPLE MINERAL CLAIM GROUP

Cariboo Mining Division

93B/9E and 9W

(Latitude 52°30', Longitude 122°16')

OWNER and OPERATOR
Westmin Resources Limited
Gibraltar Mine
P.O. Box 130
McLeese Lake, B.C.
V0L 1P0

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Submitted: July 1997

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1. INTRODUCTION

The Purple Mineral Claim Group is part of the Westmin Resources Ltd. Gibraltar Mine property. This claim group covers a large portion of the tailings pond and extends south to include portions of the Gibraltar East and Pollyanna Pits. Access to the group is via the main haul road to the Pollyanna Pit. The location of the claim group is shown in Figure 1.

The older claims of the Purple Group have a history in common with other claim groups of the Gibraltar Mine property. Complete details of history are provided in a number of reports listed in the attached bibliography.

This report covers a diamond drill program designed to test for high level oxide copper and deeper sulfide copper mineralization between the Gibraltar East Pit and the Pollyanna Pit. Thirty-four vertical diamond drill holes totaling 6458 m (21,189 feet) were completed during the period March 3 to April 14, 1997 by L.D.S. Diamond Drilling Ltd. of Kamloops, B.C. In order to have the Purple Mineral Claim Group in good standing for ten years (to the year 2007) only the costs related to seven holes, totaling 1714 m (5622 feet), will be used to cover exploration and development requirements set by the Mineral Tenure Act.

2. MINERAL CLAIMS

The mineral claims and mining leases of the Purple Mineral Claim Group are shown in Figure 2. All of these claims and leases belong to Westmin Resources Ltd. Gibraltar Mine. The group is bounded to the south by Gibraltar's Red Group and to the west by Gibraltar's Grey Group. Information on the mineral claims and mining leases included in the Purple Mineral Claim Group is tabulated in Table 1.

NAME	TENURE #	UNITS
HY 5	204316	10
HY 6	204106	4
HY 7	204107	3
HY 11	204303	9
HY 12	204304	14
HY 13	204305	6
HY 14	204306	7
HY 15	204307	6
HY 16	204308	4
HY 17	204309	2
HY 18	204378	1
HY 19	204443	2
Lease 61 Lot 3598	207493	1
Lease 62 Lot 3599	207494	1
Lease 63 Lot 3600	207495	1
Lease 79 Lot 4136	207511	1
Lease 80 Lot 4137	207512	1
Lease 81 Lot 4138	207513	1
TOTAL NUMBER OF UNITS		74

Table 1
MINERAL CLAIMS AND MINING LEASES

3. TOPOGRAPHY AND GEOLOGY

The Purple Mineral Claim Group lies along the north-west flank of Granite Mountain (summit elevation 1398 m) and extends into the Gibraltar Mine tailings pond (see Figure 1). Relief is relatively gentle, ranging from about 1000 m to 1250 m above sea level. Much of the area has been logged during the past thirty years and second growth pine-fir forest is common. There is a good network of drainage systems in the area.

The claim group is underlain mainly by the Upper Triassic Granite Mountain Batholith. A small portion of the group (northern end) is underlain by Jurassic volcanics and pyritiferous graphitic argillite as well as rocks of the Permian Cache Creek Group. The Granite Mountain Batholith is a zoned, peraluminous, subalkaline body and can be subdivided into at least four phases. These phases are:

1. *Border Phase Diorite*

   This phase consists of a broad zone of assimilated and recrystallized rock formed between the mafic rich Cache Creek Group and the intrusive batholith. This hybrid zone incorporates a baffling array of intermediate rock types and rapid textural variations which closely reflect the country rock composition at its outer edge and that of the parent magma at its inner edge. Typical Border Phase Diorite consists of saussuritized plagioclase (45-50%), chloritized hornblende (35%) and fine grained quartz (≤15%). Textures are variable, with grain sizes of 1 to 5 mm. Mafic rich quartz diorites are also present and these are most prevalent near contacts with the Mine Phase Tonalite.

2. *Mine Phase Tonalite*

   Mine Phase Tonalite is the major host rock for the Gibraltar ore deposits. It has a relatively uniform mineralogical composition of saussuritized andesine plagioclase (50%), chlorite (20%) and quartz (30%). The chlorite appears to be derived from biotite and minor hornblende. Accessory minerals may include magnetite and rutile. Plagioclase is variously altered to albite-epidote-zoisite and muscovite. The rock is generally equigranular with a grain size of 2 to 4 mm. Rock fabrics range from isotropic to intensely schistose. In most cases the unmineralized rock is only weakly foliated and the degree of penetrative deformation increases proportionally with alteration.

3. *Granite Mountain Phase Trondhjemite*

   The trondhjemite consists of saussuritized plagioclase (45%), chloritized biotite (10%) and quartz (≥45%). Grain size is about 2 to 4 mm near contacts with the Mine Phase Tonalite but reaches 8 to 10 mm away from the contacts. The quartz commonly occurs as large grains or grain aggregates set in a finer grained, inequigranular matrix of quartz, plagioclase and minor chlorite. Foliation throughout the trondhjemite body tends to be weak or absent except along contacts with the Mine Phase or Leucocratic Phase.

4. *Leucocratic Phase*

Associated with all ore grade mineralization are minor zones of fine grained rock classified as Leucocratic Phase due to a prevailing quartz-plagioclase composition and general lack of mafic minerals. The term is used to describe leucocratic, porphyritic quartz diorite as well as quartz porphyry and quartz plagioclase porphyry. In thin section, the quartz plagioclase porphyry has a fresh appearance with coarse quartz phenocrysts up to 8 mm in diameter and oligoclase phenocrysts up to 5 mm in diameter. The phenocrysts, which make up 50 to 60% of the rock are set in a fine grained quartz-plagioclase-sericite groundmass with a felsophyric texture that shows little sign of recrystallization.

4. DRILL PROGRAM

4.1 Objective

The purpose of the drill program was to test for high level oxide copper and deeper sulfide copper mineralization between the Gibraltar East and the Pollyanna Pits. This area is known as the Pollyanna - Gibraltar East Connector.

4.2 Discussion

The Pollyanna - Gibraltar East Connector area contains a structurally complex mineralized zone that connects the main Pollyanna and Gibraltar East ore deposits. Diamond drilling in 1994 and 1995 confirmed the presence of significant amounts of oxide copper, sulfide copper and MoS_2 mineralization along the southern edge of the zone. Recent geological modeling determined two mineralization trends in the Connector area. The Pollyanna trend has a 305° strike, -7° SE plunge and -55° SW dip and the Gibraltar East trend has a 295° strike, -7° SE plunge and -32° SW dip. This model suggested that the Pollyanna mineralization trend existed along the northern side of the zone and had grades that increased with depth. Accordingly, thirty-four vertical NQ diamond drill holes, totaling 6458 m, were drilled to test for the copper mineralization. The seven diamond drill holes used in this report for assessment purposes and to explain the geological model are: 97-7, 97-14, 97-22, 97-23, 97-29, 97-30 and 97-34 (see Figure 3).

4.3 Results

Mine Phase Tonalite was intersected by all of the drill holes. Most holes also intersected intervals of the Leucocratic Phase or a transition between Mine Phase Tonalite and the Leucocratic Phase. The host rock was variously altered with quartz, chlorite, sericite, epidote, carbonate and clay. Oxide zones, of varying strengths, were encountered by most of the drill holes and significant amounts of chrysocolla, malachite, limonite and copper enriched clays were observed. Although the oxidation was extensive it appears that very little leaching had occurred. Chalcopyrite, pyrite and molybdenite with minor amounts of chalcocite were observed below the oxide zone.

All drill holes intersected ore grade mineralization of either leachable or millable material (leachable ore cutoff = 0.10 % ASCu, millable ore cutoff = 0.16 % sulfide Cu). A summary of drill hole results is given in Table 2. Detailed data can be found in Appendix C - Diamond Drill Logs.

			LEACHABLE MINERALIZATION (cutoff 0.10 % ASCu)						
DRILL HOLE	TOTAL DEPTH	OVB DEPTH	FROM (m)	TO (m)	LENGTH (m)	%TCu	%ASCu	$\%MoS_2$	MINERALIZATION TYPE
97-7	191.1 m	3.7 m	3.7	9.1	5.4	0.30	0.19	0.008	mal
97-14	233.8 m	12.8 m	12.8	21.3	8.5	0.19	0.15	0.001	mal - clay - (chry)
97-22	258.2 m	7.6 m	18.3	57.9	39.6	0.17	0.13	0.003	mal - clay
97-23	261.2 m	12.2 m	12.2	30.5	18.3	0.23	0.19	0.003	chry - clay - (mal)
97-29	233.8 m	9.1 m	—	—	—	—	—	—	—
97-30	239.9 m	18.9 m	18.9	48.8	29.9	0.30	0.25	0.002	chry - clay - (mal)
97-34	295.7 m	12.2 m	12.8	73.2	60.4	0.14	0.12	0.002	mal - clay
			MILLABLE MINERALIZATION (cutoff 0.16 % sulfide Cu)						
DRILL HOLE	TOTAL DEPTH	OVB DEPTH	FROM (m)	TO (m)	LENGTH (m)	%TCu	%ASCu	$\%MoS_2$	MINERALIZATION TYPE
97-7	191.1 m	3.7 m	61.0	191.1	130.1	0.32	0.01	0.024	cp - py - Mo
97-14	233.8 m	12.8 m	73.2	106.7	33.5	0.31	0.01	0.018	cp - (py) - (Mo)
			149.4	233.8	84.4	0.55	0.01	0.040	cp - py - Mo
97-22	258.2 m	7.6 m	173.7	258.2	84.5	0.34	0.01	0.017	cp - py - (Mo)
97-23	261.2 m	12.2 m	82.3	219.5	137.2	0.35	0.01	0.089	cp - (py) - Mo
97-29	233.8 m	9.1 m	33.5	131.0	97.5	0.40	0.01	0.050	cp - py - Mo
97-30	239.9 m	18.9 m	97.5	210.3	112.8	0.30	0.01	0.012	cp-py-(cc)-(Mo)
97-34	295.7 m	12.2 m	149.4	295.7	146.3	0.45	0.01	0.023	cp - py - Mo

chry - chrysocolla
clay - Cu enriched clays
Mo - molybdenite
ASCu - acid soluble copper
cp - chalcopyrite
py - pyrite
( ) - minor amount
TCu - total copper
cc - chalcocite
mal - malachite
OVB - overburden
m - meters

Table 2
SUMMARY OF DRILL HOLE RESULTS

4.4 Interpretation

All thirty-four diamond drill holes of the 1997 program confirmed the presence of a mineralized zone in the area between the Gibraltar East and Pollyanna Pits. The mineralization occured in Mine Phase Tonalite and minor intervals of the Leucocratic Phase. The drilling supports the concept of two sulfide mineralization trends in the Pollyanna - Gibraltar East Connector area. Drill holes 97-7, 97-14, 97-22 and 97-34 intersect ore grade material of the steeply dipping Pollyanna trend. Hole 97-34 was drilled the deepest in an effort to determine the extent of the down-dip mineralization. This hole bottomed in very high grade material (last 15 m = 0.77 % TCu). The ore grade intervals in drill holes 97-23 and 97-30 verified the Gibraltar East trend. The near surface intersection of the two mineralization trends was found in drill hole 97-29. The extent of the oxide copper zone was confirmed by all of the drill holes.

5. STATEMENT OF COSTS

1997 Diamond Drilling on the Purple Mineral Claim Group

Diamond Drilling Costs

L.D.S. Diamond Drilling Ltd. of Kamloops B.C.

Contracted costs for the following diamond drill holes:

97-7	$ 8,367.88	
97-14	10,082.88	
97-22	11,062.88	
97-23	11,267.60	
97-29	10,293.65	
97-30	10,868.10	
97-34	12,688.08	
Total Drilling Costs	$74,631.07	**$74,631.07**

Total Cost **$74,631.07**

6. CONCLUSION

The 1997 diamond drill program in the Pollyanna - Gibraltar East Connector area achieved its objectives. These objectives consisted of verifying the deep ore zone of the Pollyanna trend and increasing the data reliability to produce an ore reserve. All thirty-four diamond drill holes were effective in defining a new ore reserve. The deep Pollyanna mineralized system was intersected by several drill holes and copper grades were higher than predicted by the geological model. The current geological model, updated with the 1997 drilling results, revealed the potential for additional ore at the east end of the Pollyanna mineralization trend. Consequently, future drilling of seven holes (totaling 1830 m) should be considered to test this area and increase the data reliability.

Murray Rydman

Murray Rydman
Exploration Geologist
Westmin Resources Ltd.
Gibraltar Mine

7. BIBLIOGRAPHY

1. Barker, G. E. and Rydman, M.; Diamond Drill Report on the Purple Mineral Claim Group; February, 1995.

2. Bysouth, G. D.; Diamond Drill Report on the Purple Group; November, 1983.

3. Bysouth, G. D.; Diamond Drill Report on the Purple Group; June, 1984.

4. Drummond, A. D., et al; The Interrelationship of Regional Metamorphism, Hydrothermal Alteration, and Mineralization at Gibraltar Mines; C.I.M. Bulletin, Vol. 66, No. 730, pp. 48-55.

5. Sutherland Brown, A.; B.C. Department of Mines and Petroleum Resources, G.E.M.; 1973, pp. 299-318.

6. Thon, M. R.; Diamond Drill Report on the Purple Group; June, 1989.

7. Thon, M. R.; Diamond Drill Report on the Purple Group; October, 1990.

8. LIST OF FIGURES

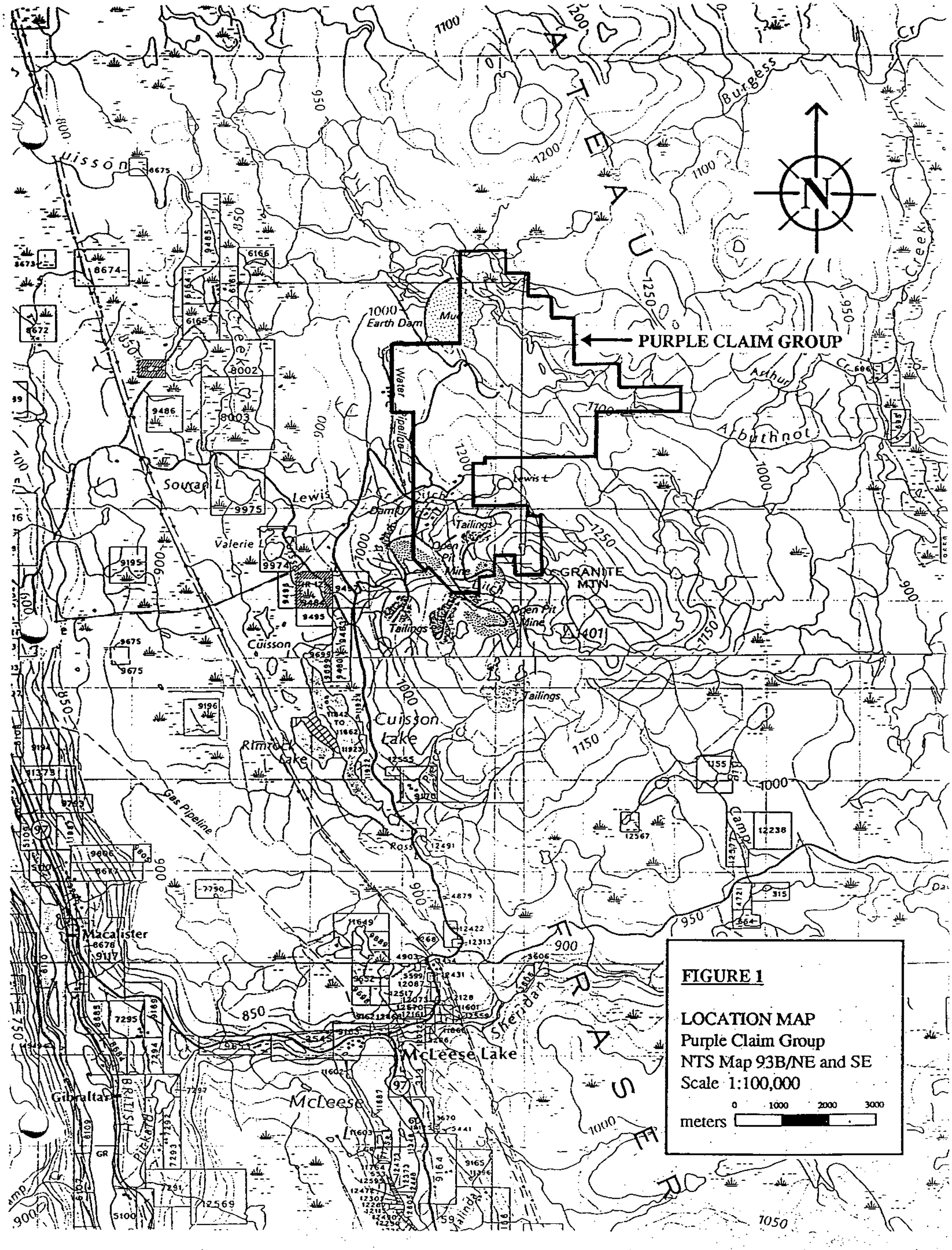


FIGURE 1

LOCATION MAP
Purple Claim Group
NTS Map 93B/NE and SE
Scale 1:100,000
0 1000 2000 3000
meters

(5Sx4W)

HY 20
3247
(3)
(2NxIW)

16062

HY 9

HY 10
1667(6)
(4NxIE)

1666
(6)
(2NxIW)
16272

HY 12
1669(6)
(7NxIW)

HY
13
1670
(6)
(6NxIE)

HY
13
1670
(6)
(6NxIE)
(15631)

PURPLE CLAIM GROUP

HY22
6693
(1)
2NX1W

80478
15630
16275
16277

HY 8
1665
(6)
(3SxIW)

HY 11
1668(6)
(3SxIE)

HY
14
1671
(6)
(7NxIW)

HY
15
1672
(6)

HY 16
1673(6)
(2NxIE)

HY 18
3025
(11)
16060 (INxIE)

HY 19
3246 (3)
(INxIE)
16061

15632
15631

16273
16274

HY 3
1711(6)
(3NxIW)

HY 5
1710(6)
(2NxIE)

HY
5
1710
(6)
(2NxIE)
(16059)

(6NxIE)

HY
17
1674
(6)
(2SxIE)

16059
16145
16144
16058
16142

HY 7
676(5)

HY 6
675 (5)

15629
16276

27318 (o) GM 39
27316(o) GM 37
27314 (o) GM 35
27319(o) GM 40
27317 (o) GM 38
27315(o) GM 36

ART2
303698
5S x 4W

L. 3708
ML 71

L. 4136
ML 79

L. 4137
ML 80

L. 3597
ML 60

L. 3598
ML 61

L. 3599
ML 62

L. 3707
ML 70

L. 3706
ML 69

L. 3596
ML 59

L. 3600
ML 63

L. 3603
ML 66

L. 3601
ML 64

L. 3705
ML 68

L. 4150
ML 89

L. 3602
ML 65

L. 4149
ML 88

L. 3711
ML 74

L. 4148
ML 87

L. 4147
ML 86

L. 3604
ML 67

L. 4139
ML 82

L. 3712
ML 75

L. 3713
ML 76

L. 4138
ML 81

L. 4139
ML 82

L. 3711
M 49

L. 4147
M 62

L. 4145

L. 4141

L. 4140

L. 4142
M 61

L. 4143
M 59

L. 4146
M60

L. 4144

GRANITE
MTN

PAUL I
3802(6)
(3Nx4W)

W.D. I
3800
(6)
(3Nx2E)

GUY 2
4N 5E

GUY 1
8991 (2)
3S x 6E

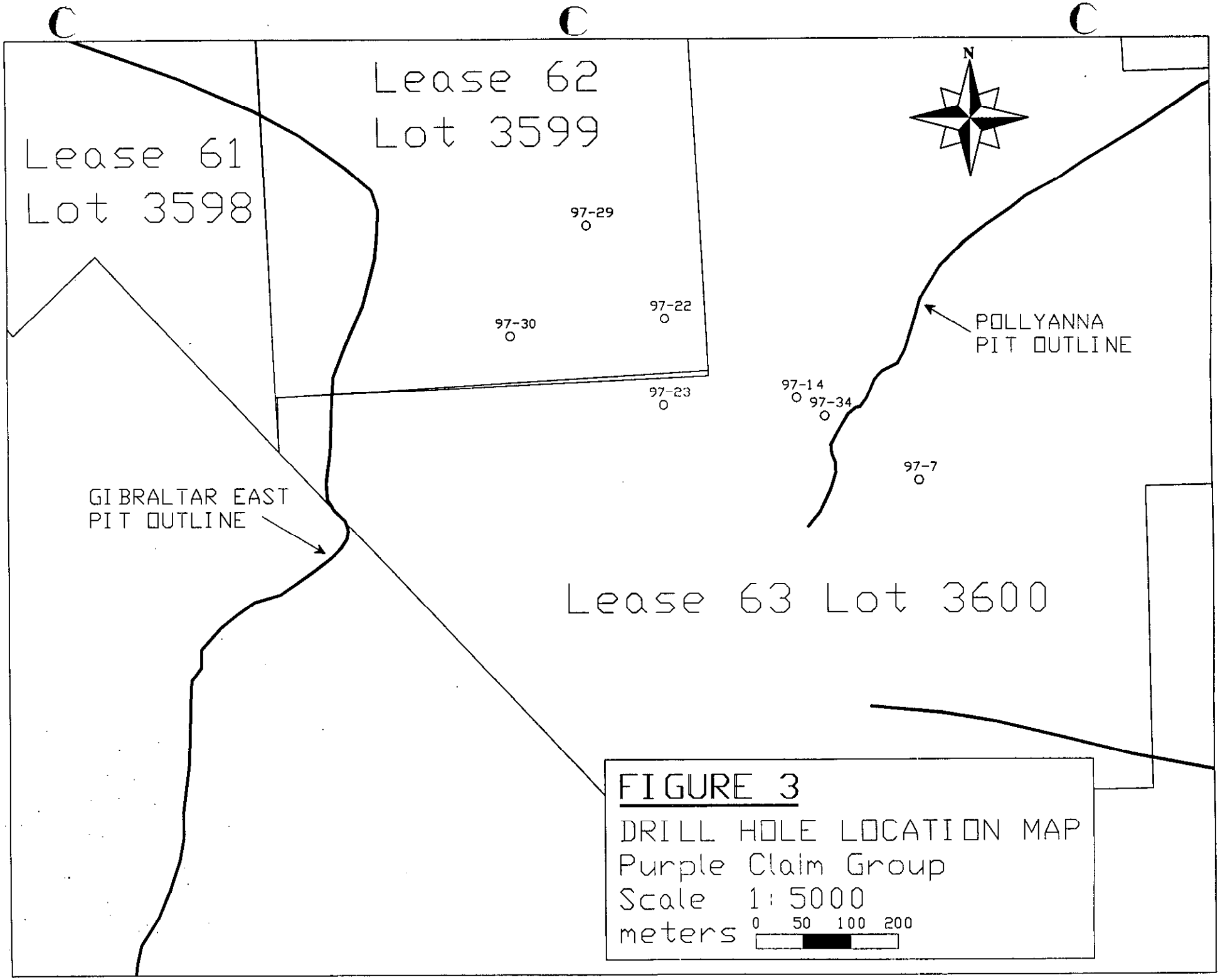
16067
16069
16065

FIGURE 2

CLAIM MAP
Purple Claim Group
Mineral Titles Reference Map
Cariboo Mining District
Map 93B/9E and 9W
Scale 1:31,680

meters 0 200 400 600

AR
30


Lease 62
Lot 3599
Lease 61
Lot 3598
97-29
97-22
97-30
97-23
N
POLLYANNA
PIT OUTLINE
97-14
97-34
97-7
GIBRALTAR EAST
PIT OUTLINE
Lease 63 Lot 3600
FIGURE 3
DRILL HOLE LOCATION MAP
Purple Claim Group
Scale 1:5000
meters
0 50 100 200

APPENDIX A : STATEMENT OF QUALIFICATIONS

I, Murray Rydman, of Westmin Resources Limited, Gibraltar Mine, McLeese Lake, British Columbia, do certify that:

- I am a graduate of the University of Alberta, with a Bachelor of Science with Specialization in Geology, dated 1992.
- From 1992 to the present I have been engaged in mining and exploration geology in British Columbia.
- I personally supervised the field work and aided in the interpretation of the results.
- I personally logged the core of fifteen of the diamond drill holes.

Murray Rydman

Murray Rydman, B.Sc.

APPENDIX B : ASSAY PROCEDURES

All core was processed and assayed at the Gibraltar Mine facilities. The core was sampled in 3.05 m (10 feet) sections (core was not split). A 10 cm representative sample was taken from each 3.05 m interval and stored on the property. Each 3.05 m sample was crushed and passed through a Jones Splitter to produce a small representative sample for pulverizing to 100 mesh. The pulverized material was used for assaying then stored as a "pulp" sample for an indefinite period of time. The splitter reject material was bagged and stored until assaying was completed then the "waste" rejects were discarded and the "high grade" rejects were stored at the mine for approximately one year. Samples, taken at regular intervals, were assayed as checks at an independent laboratory.

The following assay procedures were applied to the samples:

Acid Soluble Copper

Acid soluble copper analysis (oxide copper minerals) is carried out on 1 g samples dissolved in 50 ml of 30 % H_2SO_4 for 90 minutes at room temperature, agitating regularly. The remaining solution was then bulked to 200 ml with H_2O. A portion of filtered solution was then assayed using standard atomic absorption techniques.

Total Copper

Total copper analysis was carried out on 2 g samples dissolved in 15 ml of HNO_3 and digested until fumes were expelled. 20 ml of HCl was then added, with the sample digesting for a further five minutes. This solution was then bulked to 200 ml with H_2O. A portion of filtered solution was then assayed using standard atomic absorption techniques.

Molybdenum Sulfide

MoS_2 analysis was carried out on 2 g samples dissolved in 15 ml of a $KCLO_3$ saturated HNO_3 and boiled until fuming was complete. 20 ml of HCl was then added, with digesting occurring for a further five minutes. $AlCl_3$ was added to bring the solution to excess of 1000 ppm Al. The remaining solution was then bulked to 200 ml with H_2O. A portion of filtered solution was then assayed using standard atomic absorption techniques.

APPENDIX C : DIAMOND DRILL LOGS

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

LOCATION: PGEC Zone	BEARING: -	LATITUDE (N): 49623.64	CORE SIZE: NQ	LOGGED BY: G. Grubisa	
DATE COLLARED: March 11, 1997	LENGTH: 627'	LONGITUDE (E): 50727.60	SCALE OF LOG: 1" = 10'	DATE: March 13, 1997	
DATE COMPLETED: March 12, 1997	DIP: -90°	ELEVATION: 3807.09	REMARKS: Collared on bedrock berm in Pollyanna Pit.		

ROCK TYPES and ALTERATION SYMBOLS

- NORMAL TONALITE
- CHLORITE DARKENED TONALITE
- CHLORITE DARKENED TONALITE/ CHLORITE DARKENED LEUCOCRATIC HYBRID
- LEUCOCRATIC PHASE
- QTZ-SER-CARB-(CHL) ALTN PHASE

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

badly broken rock; fault gouge; ↑ increase; ↓ decrease; ( ) minor amount; (( )) very minor amount

altn = alteration; az = azurite; bo = bornite; brx = broken rock; bx = breccia; carb = carbonate; cc = chalcocite; chl = chlorite; chry = chrysocolla

cp = chalcopyrite; cup = cuprite; diss = disseminated; ep = epidote; gg = gouge; gr = garnet; gyp = gypsum; hem = hematite; lim = limonite

mag = magnetite; mal = malachite; MnO_2 = pyrolusite; Mo = molybdenite; mod = moderate; nat Cu = native copper; ND = non directional; pied = piedmontite; py = pyrite

qtz = quartz; rx = rock; saus = saussurite; ser = sericite; sph = sphalerite; str = strong; StWk = stockwork; tet = tetrahedrite; wk = weak

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN	—	—
LEACH CAP	—	—
OXIDE	118'	118'
SUPERGENE	158'	158'

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
					CASING TO 12'			12										
12-72' QTZ-SER-CARB-(CHL) ALTN PHASE	70 str	20			str foliated qtz-ser-carb-(chl) altn w ((mal)) - MnO_2-lim amidst some fractures.	0	12-28' → intense limonitization w/ little to no oxide mineralization possibly a result of post-mining		70	-	88317	.40	.24			.009		.06
☆ Continuous and good grade ore starts @ 230' and continues to EOH. ORE grade material is evenly distributed	70 str	30	? 70	1½" 8"	bull qtz vn w/ Fecarbs + MnO_2 stn. qtz w MnO_2 stn-(mal) / str foliated qtz-ser-carb-(chl) altn w/((mal)) - MnO_2 - lim (intense lim)	0	oxidation of the sub-grade portion of the bench. Mn staining varies from mod-intense for this interval. 12-48' → strong foliation	22 27	65	7	88318	.20	.13			.006		.05
between Normal + Chl. Darkened Mine Phase Tonalite. Mineralization mainly occurs as steeply dipping (5-30) fractures + veins.	70-30 str	40	-	7"	str foliated qtz-ser-carb-(chl) altn w ↓ MnO_2 / gg → lim	0	resulting in very low RQD as breakage occurs along the numerous foliation planes	37	48	0	88319	.06	.02			.003		.05
	70-80 str	50	70	3"	qtz-Fe carb vn. (mal) in fractures, some MnO_2	<.5	48' → 1st occurrence of py	47	100	17	88320	.08	.05			.005		.06

3770

/home/rydman/explor/log_sheet.dwg

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 97-7 Page 2 of 11

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Altn	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	60-80 mod-str		60		70	½"x2	(mal)-MnO_2) on fractures qtz-Fe carb vn.	<.5	-somewhat stronger oxide mineralization for this interval than previous.	57	91	43	88321	.09	.06			.001		.12
	60-80 mod-str		70					<.5	62-70' → intense lim-carb altn characterized by vuggy, leached core.	67	100	53	88322	.15	.08			.004		<.03
72'-248' CHL DARKENED MINE PHASE TONALITE - Fe carb altn persistent down To 76'	50-70 WK		80				lim-MnO_2-((mal)) on fractures.	<.5	vuggy core	77	95	40	88323	.10	.06			.004		.05
- abundance of lim-MnO_2 on fracture surfaces down To 135'. - not Typical chl dkned phase b/c of vuggy nature of core	ND		90			3'	lim-MnO_2 on fractures. ((mal)) brx → lim-MnO_2	<.5	vuggy core	87	100	33	88324	.04	.04			.003		.05
	ND		100			1½ 1' 5"	brx → lim-MnO_2 brx → lim-MnO_2-((mal)) brx → lim-MnO_2-mal	<.5	vuggy core. lim-MnO_2 on fractures	97	100	17	88325	.08	.07			.002		.08
107'-118' → texture varies as grain	60 WK		110				sparse ((cp)) blebs brx → lim-MnO_2-(mal)	<.5	lim-MnO_2 on fractures.	107	100	37	88326	.20	.07			.003		.10

3725

/home/rydman/explor/log_sheet.dwg

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 97-7 Page 3 of 11

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Type & Attn Rx Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
boundaries become indistinct. Foliation becomes non-directional. ↓	ND	120	20-80	1/16-1/8" x 15	lim-(mal)-(MnO_2)	<.5		lim-MnO_2 on fractures. 117-23' → vuggy core	117	100	50	88327	.26	.07			.006		.08
	ND	130	50	4"	folding w/ vuggy core. qtz-Mo-(cp) vn.	<.5		lim-(MnO_2) on fractures	127	100	50	88328	.06	<.01			.058		.05 3680
	ND	140	30-50 70	1/16-1/8" x 10 1/4" x 2. 2'	chl-qtz-py-cp qtz-py-chl-cp brx → hem-(lim)	.5		lim-((MnO_2)) on fractures.	137	95	40	88329	.23	<.01			.005		.08
	60 wk	150	30-50 3e 40	1/8" 1/4" 1/8" x 4	chl-py-((cp)) qtz-mag-(cp) chl-(cp)-(py)	.5			147	100	70	88330	.11	<.01			.003		.08
	60 wk	160	30-50	1/16-1/8" x 30 6"	qtz-chl-py-cp-((cc)) brx → (py)	.9			157	95 103	33	88331	.15	<.01			.003		.18
162'-166' → ↑ in silica content as rock becomes more dense & compact.	60 wk	170	30-60	1/16"-1/4" x 30	qtz-chl-py-cp-((Mo))	1.0			167	100	57	88332	.19	<.01			.004		.22

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Type & Attn / Rx / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS: ZONE / ESTIMATE / ACTUAL (OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE) — REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	180		2½' 6"	brx 93	<.5		177	89	17	88333	.14	<.01			.005		.05
	ND	190	30	¼"x3	qtz-chl-cp-(py)-(Mo) 3 Finely diss.(cp)	<.5	182-83' → core has a brecciated appearance.	187	95	40	88334	.14	<.01			.004		.17
	70 wk to mod	200	20 20	⅛"x2 ⅛"	chl-(py)-(cp) chl-py-cp	<.5		197	95	63	88335	.15	<.01			.002		.09
	ND	210	20-50	½-⅜"x25	chl-qtz-cp-py	.6		207	100	67	88336	.21	<.01			.009		.30
	ND	220	20-50 20	½"-¼"x10 10" ½"	chl-qtz-(py)-(cp) brx → (hem) w/ slicken sides. cont 93	<.5	216-18' → slight hem staining	217	100	53	88337	.17	<.01			.009		.18
	ND	230	30	⅛"x2 .5'	qtz-chl-(py)-(cp) brx → (hem)	<.5		227	95	27	88338	.24	<.01			.008		.08

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Attn Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	240	20 20-50	½" 2' ⅛"-¼"x35	qtz-Mo-(cp) brx chl-qtz-carb-py-cp-(Mo)	.6		237	80 62"	30	88339	.38	<.01			.032		.28
	60 wk	250	20-50	⅛"x5 8" } hrln cp fractures + diss cp	chl-qtz-py-cp-(Mo) brx → carb	<.5	Mo on fractures. 246-48' → brecciated + cp healed fragments w/ py-cp stringers.	247	100	2 53	88340	.31	<.01			.007		.24
248'-310' → Chlorite Darkened Mine Phase Tonalite grades into somewhat of a hybrid between Chlorite Darkened + Leucocratic Phases.	ND	260	10-30 20	⅛"x4 ⅛x3	chl-(py)-cp chl-(py)-cp	<.5		257	100	40	88341	.19	<.01			.005		.15
- ↑ in plag + qtz. - minor ↓ in chlorite. - zone appears to be well mineralized mainly w/ chl-cp stringers.	ND	270	20-60	⅛"-¼"x40	qtz-chl-(py)-cp-(Mo)	1.0	} diss cp. } rchl	267	100	57	88342	.32	<.01			.014		.62
	ND	280	20-50 20-50	⅛"-¼"x20 ⅛"-¼"x15	qtz-chl-(py)-cp-(Mo) qtz-chl-(py)-cp-(Mo)	.8		277	100	47	88343	.34	<.01			.022		.50
	ND	290	5-60	⅛"-¼"x50	qtz-chl-py-cp-Mo	1.3	↑ Mo for this interval	287	100	43	88344	.30	<.01			.024		.66

35%

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 97-7 Page 6 of 11

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	300	20-50 20-50	1/16-1/8"x15 3½' 1/16-1/8"x10	qtz-chl-py-cp-(Mo) gg qtz-chl-py-cp-(Mo)	.7	293.5'-97' → gg Possible Fault but No Hem Staining	297	98	13	88345	.19	<.01			.011		.27
	ND	310	 10-90	2' 1/16-1/8"x55	brx chl-qtz-py-cp-(Mo)	2.0		307	100 87°	50	88346	.24	<.01			.007		.75
310'-406' Mixed intervals of Chl Darkened and Normal Mine Phase Tonalite.	ND	320	20-55 20 10 40-70	1/16"x5 1/4x3 1/2" 1/4x5	chl-cp-(py) carb. qtz-py-(cp)-Mo vn qtz-chl-py-cp-(Mo)	.7		317	100	7 37	88347	.28	<.01			.035		.20
	ND	330	5-75 5	1/16-3/8"x40 1/4"	qtz-ser-chl-py-cp-Mo-(carb) qtz-chl-py-((cp))	2.0	321'-27' → ↓ in rock fabric + grain size def'n. ↑ in chl-(ser) altn. Zone is better mineralized than HW or FW	327	100	57	88348	.24	<.01			.022		.28
	ND	340	10 70 10 60-...	1/4" 1/3"x3 1/3"x2 1/3"x4	carb-qtz-py qtz-(chl)-py-cp-Mo qtz-py-cp-Mo qtz-chl-py-cp-Mo	1.0	338-46' →	337	100	53	88349	.21	<.01			.013		.28
	ND	350	30 5-20	1/4" 1/16-1/4"x7	qtz-chl-cp qtz-chl-(py)-cp-((Mo))	.5	minor ↑ in ep altn	347	100	53	88350	.26	<.01			.016		.22

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alin	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		360		5 60 30	1/8"x2 3/8" 1/2"	chl-cp qtz-(cp) qtz-cp-flo-vn	<.5		352'-63' → minor ep altn	357	100	60	88351	.22	<.01			.004		.18
	60 wk		370		20-40	1/16-1/4"x12	chl-qtz-py-cp-Mo	.5			367	100	43	88352	.20	<.01			.012		.23
	ND		380		90 30 80 20	2"+4" 1/8"x2 1" 1/2"	leucocratic dyke. chl-py-cp qtz-cp qtz-(cp)-Mo	<.5			377	100	70	88353	.20	<.01			.038		.13
	ND		390		5-20	1/16-1/4"x15		.6			387	100	67	88354	.18	<.01			.026		.25
	ND		400		10-50 50	1/16-1/8"x15 3/8"	chl-qtz-py-cp-(Mo) qtz-cp	.5			397	100	70	88355	.18	<.01			.029		.20
406'-410' → LEUCOCRATIC PHASE	ND		410		5-60	1/16-1/4"x20	qtz-chl-(py)-cp-Mo	.8		} thin fractures of cp-Mo + diss cp	407	100	83	88356	.32	<.01			.017		.60

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alin	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
410'-14'→ silicified + well mineralized normal mine phase	ND		420		10-70	1/16"-1/4"x50	chl-gtz-py-cp-(Mo)	1.2	} rep altn	417	100	67	88357	.33	<.01			.033		.75
	ND		430		40 90 70	1/16"x5 1"x2 1/4"x2	chl-(gtz)-cp-(py) chl-(carb) gtz-((cp)) vn	<.5		427	100	77	88358	.15	<.01			.035		.15
	50-60 mod		440		20 20-50	1/2" 1/16-3/8"x40	gtz-chl-cp-Mo vn. gtz-chl-py-cp-(Mo) 2' leucocratic phase.	1.0	437.5'-440.5'→ leucocratic phase.	437	100	73	88359	.33	<.01			.020		.44
	ND		450		70 40 60	6" 1" 1/8"x3 2 1/2"	leucocratic phase. vuggy gtz-cp vn chl-p gtz-chl vn.	<.5		447	100	70	88360	.11	<.01			.005		.10
	60 wk		460		20-40 30	1/16-1/8"x20 1"x2	chl-(gtz)-cp-(py)-(Mo) cp-gtz vn	.6		457	99 40"	87	88361	.17	<.01			.010		.23
	60 wk		470		20-60	1/16-3/8"x45	chl-gtz-py-cp-Mo	1.5		467	100	70	88362	.38	<.01			.015		.50

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alin Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	50-60 wk	480	20	1/16" x 3	chl-qtz-cp-py	1.5		476'-481' → strongly mineralized zone	477	100	50	88363	.44	<.01			.007		.52
			5-60	1/16"-1/4" x 25	qtz-chl-(ser)-py-cp-((Mo))														
	60 mod	490	5-60	1/16"-1/8" x 25	qtz-chl-py-cp-Mo	1.3			487	100	23	88364	.33	<.01			.029		.36
				2½'	qtz-Mo-((cp)) vn → broken														
	60-70 mod	500		2½'	qtz-Mo-((cp)) vn → broken	1.0	↑Mo		497	100	43	88365	.51	<.01			.058		.40
			30-60	1/8"-1/8" x 12	chl-qtz-py-cp-(Mo)		} diss cp												
			30	5"	silicified zone w/ cp-py-Mo														
			50-70	1/16"-1/8" x 7	chl-qtz-py-cp-(Mo)														
	60 wk	510	20-70	1/16"-1/4" x 12	chl-qtz-(carb)-py-cp	.7			507	100	67	88366	.22	<.01			.010		.22
	60 wk-to ND	520	20-60	1/16"-1/8" x 15	chl-qtz-py-cp-(Mo)	.5			517	100	63	88367	.26	<.01			.013		.25
			30	2"	leucocratic dyke														
	60 wk to ND	530	20-60	1/16"-3/8" x 50	chl-qtz-py-cp-(Mo)	1.3	} hem stain on core + in fractures; } silicified zone	527'-534' → strongly mineralized zone	527	100	50	88368	.45	<.01			.020		.72

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alt'n	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	60 wk		540		10-70 90 5-20	½-¼" x 10 1" ⅛x3	chl-qtz-py-cp qtz-Mo chl-py-cp	.8		strongly mineralized zone cont.	537	32" 100	9 70	88369	.32	<.01			.014		.31
	60 mod		550		5-30	⅛"-½"x50 5"	chl-qtz-py-cp-Mo brx	1.0		448'-62' →	547	100	37	88370	.65	<.01			.022		.53
	60-70 wk-mod		560		5-80	2' ¼"-⅜"x70	brx chl-qtz-py-cp-Mo	2.0		strongly mineralized zone	557	100	43	88371	1.02	<.01			.011		1.25
	60-70 mod		570		30-60 0-40 30	⅛-½"x5 ⅛-½"x15 4"	chl-qtz-py-cp-(Mo) chl-qtz-py-cp-(Mo). cp-qtz	1.5			567	100	67	88372	.58	<.01			.004		.64
	5-50 wk-str		580		5-30 20	⅛-½"x20 ½" ⅛"x5	chl-qtz-py-cp-Mo undulating qtz-chl-(cp) vn chl-qtz-py-cp.	.7			577	100	47	88373	.58	<.01			.006		.43 3330
581'-610' → chlorite content ↓ + lithology grades into a non-saussentized Normal Mine Phase Tonalite. There could be a potential fault	ND		590			⅛"x5 2' 15'	chl-qtz-py-cp highly sheared competent core/gg highly sheared competent core/gg	.7	∫diss py+cp 585'-607' POSSIBLE FAULT		587	100	17	88374	.52	<.01			.010		.26?

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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BOTTOM DEPTHS		
ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
zone from 585'-607'. It is characterized by extreme gouge zones. and by competent core than has undergone complete cataclastic deformation. when this competent core is broken the internal	ND	600		1' 6" 6'	highly sheared competent core/gg sheared qtz-Mo vn? competent gg	1.0?	diss py-cp	597	100	0	88375	.62	<.01			.073		.30?
fabric is totally unrecognizable. Vein structures are only visible in non-sheared areas. Diss. py+cp are visible in some severely deformed areas. ↓	ND	610	30 30	1½' ⅓"x2 10" ⅟₁₆"x15	gg chl-cp-py gg chl-py-(cp).	1.0?	diss py-cp	607	90	2 17	88376	.23	<.01			.017		.25?
610'-EOH Back to Chl Darkened Mine Phase Tonalite	ND To 70 mod.	620	30 15 30	⅟₁₆"x10 ½" ⅟₁₆"x10	chl-py-(cp) carb chl-py-(cp)	.8	hem stain on core.	617	100	50	88377	.18	<.01			.003		.21
	70-80 str	627	60	3½'	diss-cp. qtz-Mo-((cp)) vn → broken	<.5	major ↑ Mo	627	100	—	88378	.39	<.01			.278		.20
					627' EOH													

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LOCATION	PGEC Zone	BEARING	—	LATITUDE (N)	49905.145	CORE SIZE	NQ
DATE COLLARED	March 16, 1997	LENGTH	767′	LONGITUDE (E)	50308.34	SCALE OF LOG	1″=10′
DATE COMPLETED	March 17, 1997	DIP	-90°	ELEVATION	3937.135	LOGGED BY	G. Grubisa
						DATE	March 21, 1997

REMARKS: drilled on small dump west of Pollyanna entrance

ROCK TYPES and ALTERATION SYMBOLS

- CHL DARKENED MINE PHASE TONALITE
- NORMAL MINE PHASE TONALITE
- CHL DARKENED PHASE/LEUCOCRATIC PHASE HYBRID
- QTZ-SER-(CHL)-CARB ALTN PHASE
- LEUCOCRATIC PHASE

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

badly broken rock; fault gouge; ↑ increase; ↓ decrease; ( ) minor amount; (( )) very minor amount

altn	= alteration	cp	= chalcopyrite	mag	= magnetite	qtz	= quartz
az	= azurite	cup	= cuprite	mal	= malachite	rx	= rock
bo	= bornite	diss	= disseminated	MnO_2	= pyrolusite	saus	= soussurite
brx	= broken rock	ep	= epidote	Mo	= molybdenite	ser	= sericite
bx	= breccia	gg	= gouge	mod	= moderate	sph	= sphalerite
carb	= carbonate	gr	= garnet	nat Cu	= native copper	str	= strong
cc	= chalcocite	gyp	= gypsum	ND	= non directional	StWk	= stockwork
chl	= chlorite	hem	= hematite	pied	= piedmontite	tet	= tetrahedrite
chry	= chrysocolla	lim	= limonite	py	= pyrite	wk	= weak

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN	42′	37′
LEACH CAP	—	—
OXIDE	172′	190′
SUPERGENE	—	—

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
					CASING TO 42′													
(42′-767′) CHL DARKENED AND NORMAL MINE PHASE TONALITE. OTHER INTERVALS NOTED INDIVIDUALLY IN LOG. ORE ZONE	70 wk to ND	50		½″ / 4′ / 3″x2	vuggy qtz-chl-lim vn. / brx → lim / gg → lim-MnO_2-clay altn	<.5	• lim-MnO_2 on fracture surfaces throut interval. 49′-67′ → core is pitted		80 / 47	—	88653	.18	.17			.001		.06
ENCOUNTERED ~ 410′ TO EOH.	ND	60		6″	gg → ↑ clay altn / ← minor mal on fracture surf.	<.5	and vuggy • lim-MnO_2 on fracture surfaces throut interval.		95 / 57	27	88654	.15	.13			.001		.06
57.5′-102′ → QTZ-SER-(CHL)-CARB ALTN PHASE - abundant lim-(MnO_2) fractures. - upper zone is extensively leached [illegible]	70-50 mod		90	1/16″x4 / 4″	lim-(mal)-(chry) / gg → ↑ ser-clays / [illegible]	<.5	• lim-(MnO_2) on fracture surfaces throut interval		100 / 67	0	88655	.23	.16			.002		.08
	70-50 mod to str	80		16″ / 8′	gg → ↑ lim / gg → ↑ lim	<.5	• lim-MnO_2 on fracture surfaces throut interval. 75′-95′ → intense orange carb altn (siderite?)		100 / 77	20	88656	.15	.09			.003		.05

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alt'n	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	70-80 str		90				↑ MnO_2 mineralization	<.5		Intense carb altn contd. • lim-MnO_2 on fracture surfaces throut interval.	87	100	43	88657	.13	.04			.011		.04
	70-80 str		100		80	1/16" x 6	lim-MnO_2-(mal)	<.5		• lim-MnO_2 on fracture surfaces throut interval	97	100	43	88658	.18	.12			.006		.08
CHL DARKENED & NORMAL MINE PHASE TONALITE	70-80 str to NL		110		30	1/16 x 3	chl-lim-mal	<.5		102'-107' → minor carb altn of Mine Phase Tonalite • lim-MnO_2 on fracture surfaces throut interval.	107	100	47	88659	.11	.07			.002		.08
	ND		120		5-60	1/16-1/8 x 12	lim-MnO_2-mal	<.5		mottled ep altn • lim-MnO_2 on fractures throut interval 116' → 1% occurrences of PY ↑113-31' →	117	100	12 67	88660	.07	.06			.001		.12
	ND		130		10-70	1/16" x 10	lim-MnO_2-mal	<.5		slight hem staining of core. 125-26.5' → intense bleaching of core → ↑ lim • lim-(MnO_2) on fractures	127	100	43	88661	.13	.08			.002		.10
	70 mod		140		80	2"	pp/brx → ↑lim-MnO_2-((mal)) leucocratic dyke	<.5		• lim-MnO_2 on fractures	137	100	40	88662	.08	.07			.001		.12

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
145'-216' → FAULT ZONE - intense lim alt'n at top of zone grading to lim-hem towards bottom.	70 wk to ND	150	20-30	3'	lim-mal-MnO_2 on fractures gg → ↑lim-(az)-(mal)-clays	<.5		147	100	17	88663	.13	.09			.008		.22
- fractures + flt gouge are mineralized w/ Cu oxides. at top + middle of zone. - there may be 2 planes of movement possibly representing a splay of some sort · upper plane 147'-157' · middle plane 178'-189'	ND	160	20-30	7'	gg → ↑lim-(mal)-clay alt'n. lim-mal-MnO_2 on fractures	<.5	159'-189'	157	72	3	88664	.12	.11			.003		.27
· lower plane 195-204' - mixed intervals of brx + gouge	ND	170	20-30		lim-mal-MnO_2 on fractures. lim-mal-MnO_2 on fractures	<.5	hem staining of core.	167	93	23	88665	.20	.18			.002		.27 3770
	ND	180		2'	lim-mal-MnO_2 on fractures. gg → hem	<.5		177	92	27	88666	.14	.11			.002		.14
	ND	190	6"	4' 54"	> semi competent core w/ hem-lim gg → w/ ↑ clay alt'n - carbs qtz-[illegible]	<.5	numerous slickensides on gouge surfaces	187	100 54"	7	88667	.10	.05			.014		.10
	ND	200		3'	gg → brx → ↑lim	<.5	200' - end of lim zone	197	85	17	88668	.29	.03			.021		.10

BOTTOM DEPTHS ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alln / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
FAULT ZONE CONT'D																		
	ND	210	60	½"x2	qtz-(Mo)-((cp)) vn	<.5	209'-277' hem staining of core.	204	100	17	88669	.16	.01			.023		.06
	ND	220	carb altn	1"	gg → ↑clay	<.5		212	75									3725
	ND	230	20 60	¼" ⅛"	qtz-py-carb chl-cp	<.5		217	100	23	88670	.12	.01			.004		.04
	ND	240	70	½"	qtz-Mo vn.	<.5		227	100	23	88671	.17	<.01			.005		.06
	ND	250	10 70 80	⅛" 2" ⅛"	hem-clays-(carb) wispy qtz-(cp) vn. qtz-Mo	<.5	minor diss cp	237	100	60	88672	.14	<.01			.004		.03
	ND	260	5-10 20-40	⅛"x3 ½"-⅛"x5	chl-carb-py-((cp))	.8		247	100	47	88673	.28	<.01			.013		.09
				2'	brx			257	100	17	88674	.31	<.01			.020		.15 3690

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alln & Type	Rx	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE	ESTIMATE	ACTUAL	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND			270		5-60 5	1' 1/16-1/8" x 15 1/16"	brx chl-(qtz)-(py)-cp brx → hem-carb.	<.5	OVERBURDEN LEACH CAP OXIDE SUPERGENE			hem stain on core cont'd to 277'	267	7' 100	3 33	88675	.35	<.01			.007		.15
gg material gg/competent rock contact is visible @ 30°	ND			280		70 30	3/8" x 3 8"	qtz-(Mo)-(cp) gg	<.5				277-81' → minor carb xtln	277	100	33	88676	.53	<.01			.025		.05
	ND			290		60-70 70	1/8" x 6 4" 1/8-1/2" x 10	chl-py-cp-(mag) gg chl-py-cp-Mo	<.5					287	90	30	88677	.46	<.01			.007		.03
	ND			300		5-70	1/16-1/4" x 50	chl-(py)-(cp)-(carb)-(Mo)	.8					297	100	27	88673	.18	<.01			.006		.13
	ND			310		40-70 5	1/16" x 8 1/8" x 3 3'	chl-(py)-(cp) chl-py-cp brx	<.5					307	100	50	88679	.22	<.01			.003		.03
	ND			320		40 40	3' 7" 2'	gg brx qtz-Mo vn. qtz-Mo vn. → broken	<.5					317	100	27	88680	.12	<.01			.062		.07

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alin Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	330	5-40	1/8"-1/8" x 35	chl-(py)-(cp)-(Mo)	.6			327	100	33	88681	.36	<.01			.037		.15
	ND	340	5-40 5-40	1/8"-1/8" x 15 1/16"-1/8" x 15	chl-(py)-(cp)-(Mo) chl-(py)-(cp)-(Mo)	.7			337	100	50	88682	.38	<.01			.005		.20
	ND	350	5-60 80 0	1/16"-1/8" x 15 1/2" 1/4"	chl-(py)-(cp)-((Mo)) chl-carb-py-(cp) qtz-Mo	1.0	↑ ser.		347	100	43	88683	.23	<.01			.009		.15
358'-72' → CHL DARKENED PHASE / LEUCOCRATIC PHASE HYBRID - mod-str saussentization/ep altn - finer grained to no fabric - lower contact @ 30° to core axis	ND	360	5 60 30 70	1/4" 1/2" 1/16" x 3 1/4"	qtz-Mo qtz-chl-py-cp chl-py qtz-ser-chl-(py)-cp	.6			357	100	53	88684	.07	<.01			.006		.12
	ND		60 5-40	3/4" 1/4"+1/2" x 6	qtz vn qtz-chl-py-cp	.7			367	100	33	88685	.12	<.01			.002		.18
	ND	370	40-60 30 5	1/16"-1/8" x 4 1/8" x 2 1/4" x 2	qtz-chl-py-cp chl-py-(cp) chl-py-(cp)	.7	372'-82' → hem stained core		377	100	67	88686	.20	<.01			.002		.13

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Altn	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE	
	ND		390		20 5 5-30	¼"x2 ¼" 1/16-1/8"x20	chl-py-carb-hem py-qtz-(carb)-((cp)) qtz-chl-py-((cp))	1.2	hem staining cont'd. hem in fractures to 390'	387	100	43	88687	.11	<.01			.003		.15	3545
	ND		400		0-20	⅛-¼"x10	qtz-chl-py-((cp)) -((Mo))	2.5		397	100 87'	53	88688	.09	<.01			.004		.17	
	ND		410		15 5	¼" ¼"x2	qtz-chl-carb-py qtz-chl-carb-py-(cp) } carb in fractures	.8	404-11' → hem in fractures + carb	407	100	10 53	88689	.13	<.01			.001		.06	
413'-545' TONALITE / LEUCOCRATIC PHASE HYBRID • chl content varies from wk to str	ND		420		5-20 60	¼"x4 ⅜"	chl-qtz-(carb)-(py)-cp qtz-Ms vn	.5	wk diss cp.	417	100	53	88690	.31	<.01			.004		.20	
• unit has an associated ↑ in ser. • carb altn is prominent • sericitization ranges from wk to mod. • mineralization occurs as v fine py and cp along hrln chl-carb-(cp) fractures	ND		[illegible]		10	¼"	hrln fractures chl-(py)-(cp)-carb [illegible]	1.0?	418'-35' → - ↑ in carb altn. numerous hrln fractures of carb-chl-(py) at varying orientations - [illegible]	427	100	33	88691	.20	<.01			.008		.30?	
• grade estimation difficult.	ND		440				hrln fractures chl-(py)-(cp)-carb	1.8	along these fracture planes giving the rock a "broken look" diss py	437	100	33	88692	.10	<.01			.001		.30?	3500

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS / REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS₂	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
447'-457' grades into more of a Tonalite	ND	450	5-30	⅛"-¼"x10	hbln fractures → chl-py-(cp) qtz-chl-py-cp-(Mo)	1.3	445-63' → light-mod hem staining of core	447	100	63	[illegible]	.12	<.01			.004		.20
but is not Typical of the usual. Grain boundaries are more distinct Than previously. • wk saussuritization.	[illegible]	460	10 50	¼"x2 ¼"	qtz-chl-py-cp qtz-ser-py-(cp)	<.5		457	100	67	[illegible]	.09	<.01			.003		.08
	ND	470	5-40	⅙"x20	chl-(py)-(cp)-(ser)	1.0		467	100 99"	67	88695	.07	<.01			.001		.22
	ND	480	5-30	⅛-¼"x40	chl-qtz-(py)-cp)-(ser)	1.8		477	95	6 33	[illegible]	.14	<.01			.004		.28
488'-570' → [illegible]	[illegible]		5-50	[illegible]	[illegible]-(qtz)-(py)-(cp)-(ser)-(Mo)	2.0		[illegible]	100	27	[illegible]	.13	<.01			.012		.28
• LARGE ZONE OF BROKEN ROCKS • Intermittent zones of gouge thruout but little evidence of a slip plane represented by a definite gg system.	ND	500	5-60 30	⅛-¼"x70 1"	chl-(qtz)-(py)-(cp)-(ser)-((Mo)) qtz-chl-cp-Mo	3.0		497	90	17	88698	.18	<.01			.014		.31?

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS / REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	510	10 5-60	3/4" 3' 1/16-1/4 x 70	qtz-chl-carb-cp-Mo vn gg → semi competent chl-qtz-(py)-(cp)-(ser)-(Mo)	1.5		507	95	23	[illegible]	.47	<.01			.026		.38
	ND	520	50 5-60	1/2" 1/16-1/4" x 70	qtz-Mo vn chl-qtz-(py)-(cp)-(ser)-(Mo)	1.5	519-27' →	517	90	23	887[illegible]	.23	<.01			.008		.25
	ND	530	5-60 70	1/16-1/4" x 35 5" 4"	chl-qtz-(py)-(cp)-(ser)-(Mo) gg w Mo qtz-chl-cp-mag vn	1.5	core is pitted + friable ↑Mo for this interval 529-33' →	527	95	17	88701	.25	<.01			.047		.25
	ND	540	5-60	15" 1/8-1/4" x 15 1'	gg → ↑Mo qtz-chl-(py)-(cp)- Mo gg	.8	core is pitted + friable. ↑Mo for interval 539'-551' →	537	78	13	88702	.37	<.01			.028		.17
545'-548' [illegible]	ND		40	[illegible]	[illegible]	.5	hem staining on core + in fractures. influx of cp	557?	83 55"	13	[illegible]	.21	<.01			.012		.17
	ND	560	20-70	16" 6" 1/16-1/8" x 40	gg/brx gg chl-(qtz)-(py)(cp)-(Mo)	.7		557	100	10	88704	.28	<.01			.009		.17

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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BOTTOM DEPTHS		
ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE	
	ND	570		10" 1/16-1/8"x10 2' 1'	brx/gg → kaim chl-(py)-(cp) broken qtz-Mo-(cp) vn. gg	<.5	nearly whole interval is broken ↑Mo for interval.	557	88	17	88705	.51	<.01			.266		.18	3365
END OF FAULT SYSTEM.	ND	580	70 5-70 50	2' 2" 1/16"x20 3/8"	gg qtz-cp vn chl-py-cp qtz-chl-cp-Mo.	<.5		577	88	30	88706	.58	.01			.046		.20	
	ND	590	30-60	1/16-1/8"x70	chl-(py)-(cp)	.5	v.f.gr cp for interval	597	100	50	88707	.49	<.01			.010		.40	
	ND	600	5-60	1/16-1/8"x80	chl-(py)-(cp)-(Mo)	.8	v.f.gr.cp for interval.	597	100	43	88708	.42	<.01			.014		.30?	
	60 mod.		30-60	1/16-1/8"x80	chl-(py)-(cp)-(Mo)	1.2		[illegible]	100	47	[illegible]	.59	<.01			.049		.32	
	ND	620'	0-20	2' 1/16x15 4"	gg chl-(py)-(cp) gg	<.5		617	88	13	88710	.60	.01			.019		.17	3320

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS / REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS$_2$	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	630	0-30	1/16"-1/4"x35	chl-(qtz)-py-cp-(Mo)	1.0		627	100	57	83711	.64	<.01			.004		.45
	ND	640	0-30 20	1/16"-1/4"x25 3/4"	chl-(qtz)-(py)-cp-(Mo) qtz-chl-cp-Mo	.7	639-56'→	637	100	33	83712	.63	<.01			.008		.38
For this interval, very steep fractures with/without mineralization occur resulting in very low RQD	ND	650	70 0-60 10	5" 1/2" 1/8"-3/8"x30 3/4"	qq- qtz-cp vn qtz-ser-(chl)-py-cp-Mo qtz-cp-Mo vn	1.3	major ↑ in sericite along w/ cp-Mo mineralization. qtz-Mo-cp veins are common as well. more cp than py	647	100	7	83713	1.73	<.01			.158		.66
656-59'→ - grading into a finer [illegible] dark chlorite [illegible] Tonalite	ND	660	5 0-70 20 5-50	1/2" 1/8"-1/4"x20 1" 1/16"-1/4"x15	qtz-Mo-cp vn. qtz-ser-(chl)-py-cp-Mo qtz-Mo-cp vn chl-qtz-py-cp-Mo	1.5		657	100	33	[illegible]	1.03	<.01			.093		.47
	ND		5-30 30 0-70 [illegible]	1/8"-1/4"x10 3/4" 1/8"x5 2"	chl-qtz-py-cp-Mo qtz-ser-cp-(py) chl-qtz-py-cp [illegible]	.8	663-65' intense [illegible]	[illegible]	100	43	[illegible]	.76	<.01			.025		.42
	ND	680	5 0-40	3/4" 1/16"-3/8"x30	qtz-Mo-cp vn chl-(qtz)-py-cp-(Mo)	1.2	}hem on fractures	677	100	70	88716	.50	<.01			.054		.48

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alter. Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	690	5-60	1/16-1/4" x 30	chl-qtz-py-cp-(Mo))	1.0		687	100	60	88717	.41	<.01			.004		.35
	ND	700	30 / 30	1/8" x 2 / 2' / 1/8"	qtz-chl-cp / brx→hem / qtz-chl-py-cp	<.5	697-709' → hem staining of core.	697	100	7 / 53	88718	.23	<.01			.009		.07
	40 WK	710	30 / 30	1/2-1/8 x 3 / 1/8" x 10	chl-qtz-py-(cp) / chl-qtz-py-(cp)	.5		707	100	40	88719	.29	<.01			.016		.08
	40 WK to ND	720	20-50 / ?	1/16"-3/8" x 35 / 5"	chl-qtz-(ser)) - py-cp-(Mo) / brk qtz-Mo-cp vn	1.5		712	100	50	88720	.57	<.01			.055		.35
	ND		5-30	1/8-1/2" x 35	chl-(qtz)-py-cp-(Mo)	1.5		727	100	30	88721	.40	<.01			.017		.32
	ND	740	5-50	1/8-1" x 40	qtz-chl-(ser)-py-cp-Mo	1.5	mineralization veins more as qtz-ser-py-cp-Mo veins as opposed to fractures. 737'-755' → ↑ in sericite	737	100	30	88722	1.05	<.01			.072		.45

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
743'-51' → LEUCOCRATIC PHASE	ND	750	5-50	1/16-1/4"x55	chl-qtz-ser-py-cp-Mo	2.0	743'-64 → ↑ vuggy core associated w/ mineralization	747	100	40	33763	.46	<.01			.009		.40
	ND	760	80 0-50	1" 1/16-1/4"x	qtz-Mo-cp vn chl-qtz-ser-py-cp-Mo	1.3		757	95	27	[illegible]	.70	<.01			.025		.35
	ND	767	15 10-30 	1/4" 1/8-1/4"x10 11"	qtz-chl-ser-py-cp-Mo qtz-chl-ser-py-cp-Mo leucocratic dyke 767' EOH.		763-65' → ↑ in ser	767	100	–	[illegible]	.69	<.01			.034		.26

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[signature]

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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LOCATION	PGEC Area	BEARING	—	LATITUDE (N)	50 179.435	CORE SIZE	NQ
DATE COLLARED	March 25, 1997	LENGTH	847′	LONGITUDE (E)	49 849.385	SCALE OF LOG	1″ = 10′
DATE COMPLETED	March 26, 1997	DIP	-90°	ELEVATION	3889.755	REMARKS	

LOGGED BY G. Grubisa DATE April 14, 1997

ROCK TYPES and ALTERATION SYMBOLS

- CHL DARKENED MINE PHASE TONALITE
- NORMAL MINE PHASE TONALITE
- NORMAL MINE PHASE / LEUCOCRATIC PHASE HYBRID
- QTZ VEIN

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

badly broken rock; fault gouge; ↑ increase; ↓ decrease; ( ) minor amount; (( )) very minor amount

altn = alteration; az = azurite; bo = bornite; brx = broken rock; bx = breccia; carb = carbonate; cc = chalcocite; chl = chlorite; chry = chrysocolla; cp = chalcopyrite; cup = cuprite; diss = disseminated; ep = epidote; gg = gouge; gr = garnet; gyp = gypsum; hem = hematite; lim = limonite; mag = magnetite; mal = malachite; MnO_2 = pyrolusite; Mo = molybdenite; mod = moderate; nat Cu = native copper; ND = non directional; pied = piedmontite; py = pyrite; qtz = quartz; rx = rock; saus = saussurite; ser = sericite; sph = sphalerite; str = strong; StWk = stockwork; tet = tetrahedrite; wk = weak

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN	25′	25.5′
LEACH CAP	—	—
OXIDE	192′	200′
SUPERGENE	—	—

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
		25			CASING TO 25′			25										
(25′-847′) CHLORITE DARKENED AND NORMAL	ND	30	?	6″ 1″	glacial pebbles brk qtz-lim vn	O	(lim) on fractures throut interval	27	100	—	8/801	.05	.03			.001		.02
MINE PHASE TONALITE UNLESS OTHERWISE NOTED IN LOG	ND	40	80 ±90	⅓″x2	qtz-lim vn	O	lim-(MnO_2) on fractures throut interval.	37	95	63	8/802	.05	.04			.001		.04
	ND	50		5″	? chl (~50% chl)	O	(lim)-(MnO_2) on fractures throut interval	47	100	80	8/803	.08	.05			.001		.02
	ND	60	40	½″	qtz-chl	O	lim-MnO_2 on fractures and core stain throut interval.	57	100	47	8/804	.08	.05			.001		.05

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alin Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	70	70	1/8"	↑lim lim-(mal)	0		lim-MnO_2 on fractures thruout interval.	67	95	73	8/805	.18	.15			<.001		.05
	ND	80		6"	brx→↑lim-MnO_2	0		lim-MnO_2 on fractures thruout interval 78-91'→ additional lim staining of core.	77	100	60	8/806	.06	.04			.002		.05
	ND	90	20	1/8" 16"	MnO_2-lim brx	0		lim-MnO_2 on fractures thruout interval.	87	100	70	8/807	.13	.11			.002		.07
	ND	100	5 20 20	1/8" 1/2"x2 1/16"	lim-MnO_2-Cu clay MnO_2-(lim)-(cu clay) mal	0		lim-MnO_2-(Cu clay) on fractures thruout interval	97	100	14 57	8/808	.13	.11			.001		.09
	ND	120	40 70	1/16"x3 11" 1½ 2½	MnO_2 ep-gtz vn brx→lim-(mal)-Cu clay brx→lim-(mal)-Cu clay	0		lim-MnO_2-(Cu clay) on fractures thruout interval	107	95	20	8/809	.15	.14			.001		.17
	ND		60±5	1/16"x2	Cu clay vuggy core.	0		112-14'→↑MnO_2 on fractures lim-MnO_2 on fractures thruout interval	117	100	50	8/810	.13	.11			.001		.07

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	130	20	2" 6"	vuggy ep-qtz-lim-MnO2-(ser) qs→↑lim-Cuclay	0	lim-MnO2 on fractures throut interval	127	90	20	81811	.20	.11			.003		.08
	ND	140	60	8" 4' 14" 1/16"x2	qs→↑lim brx→lim-MnO2-hem-((mal)) brx→lim-MnO2 mal	0	129-37'→ hem staining of core. 130-34'→ intense lim staining of core + fractures lim-MnO2 on fractures throut interval.	137	90	23	81812	.22	.20			.004		.10
	ND	150	60 60 70	1/4 + 1/16" 1/4" 1/16"x2	MnO2-mal-lim qtz-lim ←mal-chry staining. mal-chry-MnO2	0	140-42'→ vuggy core w/↑MnO2-lim MnO2-lim on fractures throut interval	147	90	73	81813	.21	.20			.003		.13
	ND	160	5-80	1/16"x40	lim-MnO2-(mal)	0	lim-MnO2-((mal)) on fractures throut interval	157	100	63	81814	.18	.18			.002		.13
	ND to -10 wk	170	30 30 30	1/16"x2 3" 8" 5"	lim-mal qtz-lim-MnO2 vn mal stain + on fractures qtz-lim-MnO2 vn	0	lim-MnO2 on fractures throut interval	167	100 95	60	81815	.19	.15			.004		.19 3725
	ND	180	10 ? 40 30	1/16"x3 8" 1" 1/8"x2	MnO2-lim ep-MnO2 vn qtz-lim vn chl-py.	<.5	lim-MnO2 on fractures throut interval }vuggy core. 1st py occurrence @ 180'	177	100	6 57	81816	.15	.09			.005		.06

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Attn	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE · ESTIMATE · ACTUAL	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		190		30 70 30 10-70	1/8" x 2 1/4" 18" zone 3/4" 1/8" x 3	chl-py lim-py 1% lim stain w/ mal-tcup qtz-lim-MnO_2-py vn lim-mal	<.5	OVERBURDEN LEACH CAP OXIDE SUPERGENE	lim-(MnO_2) on fractures throut interval.	187	100	67	81817	.34	.10			.010		.20
	ND		200		5-70 90	1/2" x 4 1/2" 6"	lim-MnO_2-mal. qtz-chl-py 3% x(lim)	<.5		mal on core + in fractures. 191-94' → vuggy core. (lim)-(MnO_2) on fractures throut interval	197	100	43	81818	.14	.06			.005		.15
	ND		210		30	1/8"	qtz-chl-(cp)-py diss (py)-(cp) ← lim on fractures.	<.5		204-08' → ↑ chl content	207	100	77	81819	.12	.01			.014		.05
210'-15' → minor carb altn	ND		220		30 70	1/8" 1/8"	qtz-chl-(Mo) qtz-chl-py-((cp))	<.5		(lim) on fractures lim zone ends @ 215'	217	100	57	81820	.11	.01			.005		.04
	ND		230		5 50	5" 1/8" 1/8" x 2	brx → set w/ slickensides. qtz-chl-carb qtz-Mo-(cp) vn	.5			227	100	70	81821	.14	.01			.034		.11
	ND		240		60 60-70 90 60	1" 1/8" x 4 1/2" 1/8" x 5	vuggy qtz-((Mo)) vn qtz-carb-py py-chl-(cp) qtz-chl-py	1.2			237	100	67	81822	.24	.01			.003		.07

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alin / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL) & REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	250	5-50 30	½"-⅝" 1½"	chl-gtz-py-((cp)) stkwk gtz-ser-py	1.4		247	100	19 87	81823	.19	.02			.003		.17
	ND	260	30 5-60	¼" ⅛"-½" x 25	carb chl-gtz-py-((cp)) stkwk	.7	cp flooding	257	100	67	81824	.05	.01			.002		.08
	ND	270	5-30 60	⅛"-½" x 50 ⅜"	chl-gtz-py-(cp) stkwk gtz-chl-(py)-(cp)-((Mo))	2.5		267	100	67	81825	.12	.01			.002		.11
	ND	280	20-40 30 70 60	⅛"-⅜" x 15 ¼" 1" ½"	chl-gtz-py-(cp) stkwk gtz-chl-Mo-cp vuggy gtz-chl-(cp) vn gtz-mag-chl-cp vn	.7		277	100	83	81826	.23	.01			.004		.11
	ND	290	30 30 20	¼" x 4 ¾" ¼"	chl-gtz-py gtz-ser-py-cp-Mo gtz-ser-chl-py-Mo	.5		287	100	90	81827	.12	.01			.006		.06
	ND	300	5-20	⅛"-¼" x 15	chl-gtz-py-(cp)-((Mo)) stkwk	2.0	↑ py b/c of near vertical vns	297	100	97	81828	.12	.01			.013		.10

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alln / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL) & REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSGu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
305-336' →							OVERBURDEN											
• This zone has small intervals (bands) that appear a leucocratic phase composition	ND	310	10	3½"x2	qtz-chl-py	.8	LEACH CAP	307	100	90	81829	.08	<.01			.006		.05
• Stkwk mineralization is still present.			30-50	⅛"-¼"x10	qtz-chl-py-((cp))-((Mo))		OXIDE											
• Regular saussetitization persists and is also present in the leucocratic bands.	ND	320	20-60	1/16"-¼"x30	chl-qtz-py-((cp))	1.0	SUPERGENE	317	100	93	81830	.06	<.01			.001		.09
	ND	330	0-40	1/16"-⅛"x25	chl-qtz-py-((cp))	1.3	REMARKS	327	41" 100	2 97	81831	.08	<.01			.001		.10
			80	1"x5"	cp-(qtz) vn													
	ND	340	40-60	1/16"-⅛"x25	chl-qtz-py-((cp))	1.6	336-44' → Leucocratic phase w/ slight calcite	337	100	90	81832	.06	<.01			.002		.16
336'-392' → NORMAL MINE PHASE / LEUCOCRATIC PHASE HYBRID			40-60	1/16"x15	chl-(cp)-(py)													
• Rock is lighter colored + saussetitization is still prevalent.	ND	350	30-60	1/16"x45	chl-(cp)-(py)	1.3		347	100	83	81833	.05	<.01			.002		.33 3545
• Stringer/Stkwk mineralization still evident.																		
• Plagioclase grains readily stand out. Chl content 5-15%	ND	360	20-60	1/16"x50	chl-py-(cp)	20		357	100	93	81834	.07	<.01			.003		.20
• This zone somewhat resembles a saussetitized QTZ-FST Porphyry?																		
• WK-mod. ser. altn.																		

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	370	 5-50	2" 1/16-1/8"x 50	qtz-(cp) vn chl-(qtz)-py-(cp)-(ser)	2.0		367	100	93	81835	.09	.01			.003		.28
	ND	380	30-60	1/8"x 45	chl-((qtz))-py-((cp))-(ser)	1.7		377	100	80	81836	.06	<.01			.001		.15
	ND	390	30-50	1/16"x 35	chl-(qtz)-py-(cp)-(ser)	1.8		387	100	87	81837	.08	<.01			.001		.19
392'- → CHL DARKENED AND NORMAL MINE PHASE TONALITE	ND	400	20-50 70 30-60 90	1/16"x6 5" 1/8"-1/4"x35 2"	chl-(qtz)-py-(cp)-(ser) ep-qtz chl-qtz-py-cp ep-chl vn	1.3		397	100	93	81838	.12	<.01			.003		.37
	[illegible]	[illegible]	30-50 5 [illegible] [illegible]	1/8"x 10 1/2" [illegible] [illegible]	chl-qtz-py-(cp) chl-qtz-py leucocratic dyke chl-qtz-py	1.3		407	100	83	81839	.10	<.01			.001		.12
419'-20.5' → LEUCOCRATIC PHASE	ND	420	60 60	1" 1"x2 1"	qtz-ser-chl-py-((cp)) qtz-ser-chl-py- leucocratic dyke.	.7		417	100	97	81840	.10	<.01			.001		.05

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Attn	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		430	/	30	6"	leucocratic dyke														
						½"	qtz-ser-chl-py-cp	<.5			427	100	100	81841	.06	<.01			.002		.06
	ND		440	//	30	¼"+⅛"	qtz-chl-py-cp														
					30	⅛"x2	qtz-chl-py-cp.	<.5			437	100	100	81842	.16	<.01			.006		.15
					90	1"	qtz vn.															3455
	ND		450	//	40	½"x3	qtz-chl-py-cp														
					40	¼"	qtz-chl-py-cp-(Mol)	<.5			447	100	100	81843	.12	<.01			.003		.07
						16"	cp-chl flooding w/carb vns. absence of regular tonalite texture.														
	ND		460	/		1'	cp-chl flooding (as above)	<.5			457	100	97	81844	.14	<.01			.001		.07
					30	⅛"x3	qtz-chl-cp-py														
	ND		470	//	30	⅛"x3	qtz-chl-cp-py						93								
					40	1/16"x2	qtz-chl-py-(cp)	<.5			467	100	97	81845	.17	<.01			.002		.14
					20	1/16"x12	chl-qtz-cp-py														
	ND		480	//	0-40	1/16"-¼"x35	chl-qtz-py-(cp)	1.2			477	100	90	81846	.38	<.01			.007		.17

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Fx Type & Alin	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		490	5-20 30	⅛" x 5 ¼"	chl-gtz-py-cp gtz-chl-py-cp vn	<.5			487	100	93	81347	.18	<.01			.004		.11
	ND		500	5 40	⅛" ⅛"	gtz-chl-cp-vn gtz-chl-py-cp	<.5			497	100	90	81348	.25	<.01			.008		.14
	ND		510	60 60 30	⅛"x2 1½" ⅛"x2	gtz-chl-py-cp gtz-py-cp-Mo vn chl-gtz-py	.5			507	100	97	81349	.14	<.01			.003		.10
	ND		520	70 60 30	½" ⅜" ¼"	gtz-vn chl vn chl-py	<.5	515-19' → undulating gtz-chl-(sericite) vns w/ an ↑ in cp stfn. minor py-cp in vns		517	100	67	81350	.14	<.01			.005		.09
	60 wk to ND		530	30 90 40	⅛"x4 5" ⅛"	chl-gtz-cp leucocratic dyke w/cp chl-py-cp	<.5			527	100	90	81351	.18	<.01			.005		.09
	ND		540	40 30 30	¼"x3 ⅛"x6 ½"x2	gtz-chl-sericite-py-(Mo) chl-cp-(py) gtz-chl-py-cp-Mo	<.5			537	100	83	81352	.21	<.01			.012		.10

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alin	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		550		20 30 60	⅛"x3 ½"x2 1/16"x8	qtz-chl-py qtz-chl-carb-py-cp chl-qtz-py	.5			547	56" 100	3 63	81853	.21	<.01			.005		.10
	ND		560		80 30	1" ½"x3	qtz-chl-carb qtz-chl-py	<.5			557	100	77	81854	.04	<.01			.004		.05
	ND		570		60 50	½"x2 ⅜" ⅛"+½"	chl-cp qtz-carb-chl vn qtz-chl-py-cp	<.5			561	95	83	81855	.08	<.01			.002		.06
	ND		580		20-50	⅛"x10	qtz-chl-cp-py	<.5			571	95	93	81856	.18	<.01			.010		.22
	ND		590		10 30 30	⅛" ½" ½"x7	qtz-chl-cp qtz-cp vn qtz-chl-py-cp	.5	Iron on fractures		581	100	53	81857	.37	<.01			.026		.11
	ND		600		30 10 to 30 80	⅛" ⅛"-¼" ½"-½"x7	qtz-chl-cp-M. qtz-chl-cp-py qtz-chl-cp-py	<.5			597	100	67	81858	.40	<.01			.022		.30

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS / REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	610	70 30-60	1/4" 1/16"-1/8"x35	carb-chl-cp chl-(qtz)-cp-(py)-((Mo))	.5	603-11' → ↑ in ep altn	607	100	67	81859	.47	<.01			.010		.30
	ND	620	30-50 20	1/16"x10 3/8"	chl-py-cp } concisely dics cp qtz-Mo-cp vn	<.5	611'-19' → Typical Tonalite Fabric disappears & is replaced by a mottled type of sauss.	617	101' 100	8 60	81860	.59	<.01			.020		.33
	ND	630	5 20 20-50 30	3/8" 1/4" 1/8"-1/4"x30 1/4"	qtz-chl-cp-(Mo) vn qtz-cp vn chl-qtz-py-cp-(Mo) qtz-cp-(Mo) vn	.8		627	100	60	81861	.71	<.01			.039		.70
	ND	640	20 5-30	1/4" 1/16-1/8"x15	qtz-cp-Mo vn chl-qtz-py-cp-(Mo)	.6		637	100	47	81862	.43	<.01			.006		.29
	ND	650	30 5-20 5-20 20	1/2"x2 1/16"x6 1/4"x10 2 1/2" 1/8"x3	qtz-cp-Mo vn chl-qtz-py-cp chl-qtz-py-cp brk qtz-Mo vn chl-qtz-ser-py-cp-(Mo)	.6	↑ Fracture frequency from 649'-57'	647	100	63	81863	.65	<.01			.142		.40
	ND	660	30-60 30-60	1/16-1/8"x60 1/16"x10	chl-qtz-py-cp-(ser)-(Mo) chl-qtz-py-cp	1.0		657	100	50	81864	.59	<.01			.009		.48

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 97-22 Page 12 of 15

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alln	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		670		30 20-40 5	3/8" 1/4"-6 1' 1/8"	qtz-chl-cp-Mo vn chl-qtz-py-cp gg→↑carb chl-py-cp	.6			667	90	27	81865	.55	<.01			.016		.17
	ND		680		30	1/4"	qtz-chl-py-cp vn	.5		675-89' → hem staining of core w/ carb veinlets	677	100	53	81866	.18	<.01			.006		.08
	ND		690		30	<1/16"x3	chl-(py)-(cp)	.5			687	100	12 63	81867	.07	<.01			.001		.05
	ND		700		30 10-30 30	1/4" 1/16"x45 1"	qtz-(chl)-py-cp-Mo vn chl-(qtz)-py-cp qtz-chl-(py) vn	1.2		699'-722' → wk hem staining of core	697	100	63	81868	.17	<.01			.004		.16
	ND		710		30 30 30-50 0°	1/4" 1/2" 1/16"x15 2"	qtz-chl-py-(cp) vn chl-(qtz)-py ↑(cp) chl-qtz-py-cp qtz vn	.9			707	100	57	81869	.29	<.01			.008		.11
	ND		720		10 30 30 30	3/8" 1" 1/8"x2 1/8"x4	carb-qtz vn qtz-chl-cp ser-carb-py chl-(carb)-py-(cp)	.8			717	100	63	81870	.30	<.01			.003		.10

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	730	39 5 20 20	1/16"x3 1/4" 1/8"x3 1/8-1/4"x8	chl-py-(cp) qtz-py chl-py qtz-chl-py-cp	.5	722-29' → mod bot. staining of core.	727	100	43	81871	.27	<.01			.002		.21
	ND	740	20 30 60	1/8"x3 1' 1/16"x6 1/16"x8	qtz-chl-py-cp-ser brk qtz-Mo vn qtz-chl-ser-py-(cp)-ser chl-qtz-py-cp	.7		737	100	27	81872	.48	<.01			.026		.21
	60 mod	750	60 30	1" 1/16"x3	qtz vn qtz-chl-py-cp	<.5		747	92	47	81873	.17	<.01			.002		.07 3140
	60 mod to ND	760	30 30 60	1/16 1/8"x2 1/4"	chl-cp qtz-chl-cp qtz-Mo-py vn→brk	<.5		757	100	43	81874	.25	<.01			.007		.07
	ND	770	30 5	1/16"x3 1/8"	chl-py-(cp) cp-chl	<.5		767	95	43	81875	.42	<.01			.005		.10
	ND	780	5 30 10 80	1/16" 1/2" <1/16"x3 4"	cp qtz-chl vn. chl-cp qtz vn	<.5		777	100	87	81876	.05	<.01			.002		.05

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Attn / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	790	60 60 60 40	1" ½"x5 7" zone 7" zone	qtz vn chl-py-ser-cp qtz-chl-ser-py-cp-Mo qtz-chl-ser-py-cp	.6			787	100	63	81877	.36	<.01			.009		.20
	ND	800	20+40 30-50 30	¼"+⅓" ⅛-¼"x30 ¼"	qtz-ser-chl-py-cp qtz-chl-py-cp-(tr) qtz-py vn	.5			797	100	77	81878	.32	<.01			.009		.18
	ND	810	20 30-50 80	1" ⅛"-¼"x30 3"	cp-qtz vn qtz-chl-py-cp qtz-Mo vn	1.0			807	100	73	81879	.24	<.01			.051		.30
	ND	820	40-60	⅛"-¼"x18	chl-qtz-py-cp 2½' ser-pink qtz vn	.7			817	100	73	81880	.30	<.01			.007		.13
	ND	[illegible]	50 50	12" zone ¼"x5	qtz-ser-chl-py-cp-(tr)-(Mo) chl-cp-(py)	.5			827	100	90	81881	.22	<.01			.011		.14
	ND	840	30 60 60	⅛"x2 ¼" ⅛"x8	chl-cp qtz-ser-chl-cp chl-cp	<.5			837	100	80	81882	.24	<.01			.007		.11

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 97-22

Zone	Estimate	Actual
Overburden		
Leach Cap		
Oxide		
Supergene		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	Rx Type & Altn	GRAPHIC LOG Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
537'-EOH' → [illegible] Tonalite approaching [illegible] composition			847	/	60	1/16"-1/8"×20	chl-qtz-py-cp	.8		847	100	–	81883	.19	<.01			.006		.15
							847' E.O.H.													

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 97-23 Page No. 1 of 15

LOCATION PGEC Area | BEARING — | LATITUDE (N) 49 880.65 | CORE SIZE NQ | LOGGED BY Murray Rydman

DATE COLLARED March 31, 1997 | LENGTH 857' | LONGITUDE (E) 49 844.03 | SCALE OF LOG 1"=10' | DATE April 17, 1997

DATE COMPLETED April 1, 1997 | DIP -90° | ELEVATION 3873.24 | REMARKS

ROCK TYPES and ALTERATION SYMBOLS

- MINE PHASE TONALITE
- LEUCOCRATIC PHASE
- LARGE VEIN

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

- badly broken rock
- fault gouge
- ↑ increase
- ↓ decrease
- ( ) minor amount
- (( )) very minor amount

altn = alteration; az = azurite; bo = bornite; brx = broken rock; bx = breccia; carb = carbonate; cc = chalcocite; chl = chlorite; chry = chrysocolla; cp = chalcopyrite; cup = cuprite; diss = disseminated; ep = epidote; gg = gouge; gr = garnet; gyp = gypsum; hem = hematite; lim = limonite; mag = magnetite; mal = malachite; MnO_2 = pyrolusite; Mo = molybdenite; mod = moderate; nat Cu = native copper; ND = non directional; pied = piedmontite; py = pyrite; qtz = quartz; rx = rock; sous = saussurite; ser = sericite; sph = sphalerite; str = strong; StWk = stockwork; tet = tetrahedrite; wk = weak

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN	40'	35'
LEACH CAP	—	—
OXIDE	240'	270'
SUPERGENE	—	—

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Altn & Type	Rx Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
			40						CASING TO 40'	40										
MINE PHASE TONALITE (40'– 370')	ND		50				← mal on fractures ← chry on fracture	0	lim- greenish clay on fractures throughout interval	47	80	57	81885	.29	.27			.001		.08
	ND		60				← bleb of chry within core	0	lim- MnO_2 on fractures throughout interval	57	98	67	81886	.18	.18			.001		.03
	ND		70		?	2'	chry- greenish clay on fract. brx-lim-MnO_2-gg-chry brx-gg-lim-MnO_2 ← chry within core	0	— same as above —	67	95	37	81887	.42	.38			.002		.12

3315

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alin Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
					← chry within core														
	ND	80				0		lim-MnO_2 on fractures throughout interval	77	95	57	81888	.21	.17			.002		.03
	ND	90				0		– same as above –	87	98	70	81889	.06	.03			.001		<.03
	ND	100				0		– same as above –	97	98	63	81890	.20	.10			.008		<.03
	ND	110				0		– same as above –	107	98	63	81891	.13	.05			.004		<.03
	ND	120	70	¼"	qtz-chl-lim-MnO_2 wk hem stain 114'–121'	0		– same as above –	117	100	77	81892	.08	.04			.004		<.03
	ND	130				0		– same as above –	127	100	73	81893	.04	.03			.001		<.03

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alt'n	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		140	70×2	3/3"×2	qtz-chl-lim	0		lim-MnO_2 on fractures throughout interval	137	100	67	81894	.06	.05			.001		<.03
	ND		150	? 60	1' 2"	brx-lim-(gg)-(greenish clay) ep-(qtz)	0	← ep alt'n	— same as above —	147	98	83	81895	.03	.03			.001		<.03
	ND		160				0	← ep alt'n	— same as above —	157	100	80	81896	.04	.02			.003		<.03
	ND		170	70	1/4"	qtz-lim	0		— same as above —	167	100	77	81897	.02	.01			.003		<.03
	ND		180	50 50	3/3" 3/3"	qtz-lim qtz-lim	0		— same as above —	177	100	90	81898	.04	.02			.002		<.03
	ND		190				0	← ep alt'n	— same as above —	187	100	77	81899	.09	.06			.004		<.03

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alin	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE	
	ND		200		?	2½"	brx-gg-lim-((mal)) ←small bleb cp	0		lim-(MnO_2) on fractures throughout interval	197	95	50	81900	.16	.14			.003		.03	3680
	ND		210		?	10"	brx-lim-qtz+chl vein fragments	0		– same as above –	207	90	57	81901	.17	.14			.005		<.03	
	ND		220		60	⅛"	qtz-lim-py	<0.5		– same as above –	217	100	70	81902	.09	.06			.003		<.03	
					50	¼"	qtz-lim																
	ND		230				} str chry-(mal) on fractures	0		– same as above –	227	98	47	81903	.48	.42			.005		.15	
	ND		240		10	¼"	solid chry-(mal) wk py assoc. w/ lim veins str chry-(mal) on fractures throughout interval	<0.5		– same as above –	237	98	57	81904	.91	.88			.004		.30	
	ND		250		?	3"	←small bleb cp gg-lim	<0.5		– same as above –	247	98	50	81905	.31	.25			.011		.03	3635
					?	1"	brx-lim wk py assoc. with lim veins																

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alln / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL) & REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	260	?	9"	brx-lim-(gg)	0	lim-(MnO_2) on fractures throughout interval	257	98	53	81906	.13	.09			.004		<.03
	ND	270	20×4	1/20"×4	← hem on fracture qtz-chl-py-cp	<0.5	—same as above—	267	95	60	81907	.14	.07			.002		.03
	ND	280	30-40	hrln-1/10"	numerous qtz-chl-py-cp veins	0.5	wk lim on fractures throughout interval	277	98	77	81908	.19	.04			.002		.06
LIM ZONE ends at 289'	ND	290	30	1/8"	qtz-chl-cp	<0.5	—same as above—	287	98	63	81909	.27	.02			.001		.05 3590
	ND	300	50×2 40	1/10"×2 2'	qtz-chl-(cp) fractured qtz-lim-(Mo)-(cp) vein	<0.5		297	95	57	81910	.44	.03			.034		.08
	ND	310	10 ?	1/2" 3 1/2'	qtz-cc-(py) fractured qtz-Mo-(cp) vein	<0.5		307	90	27	81911	.56	.01			.322		.10

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Attn	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		320		0-30	¼"-½"	qtz-Mo-cp veins	<0.5			317	90	27	81912	1.21	.01			.106		.30
					0-30	¼"-½"	qtz-Mo-cp veins														
	ND		330		?	9'	qtz-Mo-cp-(py) vein	0.5			327	90	37	81913	.46	.01			.345		.30
	ND		340		?	2"	fractured qtz-Mo-cp vein	0.5			337	85	23	81914	.44	<.01			.308		.15
					?	2'	fractured qtz-Mo-cp-(py) vein														
					?	4"	fractured qtz-Mo-(cp) vein														
					0-10	⅛"	qtz-(cp)-(Mo)														
					?	2'	fractured qtz-Mo-((net Cu)) vein														
	ND		350		?	10'	fractured qtz-Mo-(cp) vein	<0.5			347	80	17	81915	.19	<.01			1.125		.05
	ND		350		?	1'	fractured qtz-Mo-(py) vein	0.5			357	85	23	81916	.37	<.01			.278		.05
					?	2½'	fractured qtz-Mo vein														
					30×3	½"×3	qtz-chl-cp														
	ND		370		30×5	½"×5	qtz-chl-cp	0.5		← hem on fractures	367	90	43	81917	.57	.01			.038		.08
					20	2"	qtz-Mo-py														

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Attn Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE	
LEUCOCRATIC PHASE (370' – 417') • veins of py-cp • med grained qtz surrounded py indistinct plag grains	ND	380	?	10'	← 8" fractured qtz-Mo vein brx-(cp)-(py)	0.5		377	50	10	81918	.41	<.01			.162		.06	3500
• ~10% chl assoc w/ py-cp	ND	390	? ? 0-50	1½' 3' hrln-¼"	brx-(cp) fractured qtz-Mo vein numerous qtz-chl-cp-(py) stringers	0.5		387	80	40	81919	.51	<.01			.051		.18	
	ND	400	0-50 20+40	hrln-⅛" ½"×2	numerous qtz-chl-cp-py stringers throughout qtz-Mo-(py)	0.6		397	90	33	81920	.37	<.01			.014		.20	
	ND	410	20-50	hrln-⅛"	numerous qtz-chl-cp-py veins	0.8		407	95	53	81921	.32	<.01			.036		.15	
	ND	420	? ?	5' 1½'	brx w/ qtz-chl-cp-py veins ← 1' fractured qtz-Mo-(cp) vein brx-gg-hem	0.5	} hem stain	417	95	27	81922	.39	<.01			.043		.10	3455
MINE PHASE TONALITE (417' – E.O.H.)	ND	430	10-50	hrln-⅛"	numerous qtz-chl-cp-(py) veins	<0.5		427	95	67	81923	.35	<.01			.001		.22	

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type	Alfa	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND			440		10-50 ? ?	hrln-⅛" 1' 1'	several qtz-chl-cp-(py) veins brx-gg brx-competent gg	<0.5		hem stain	437	95	53	81924	.38	<.01			.007		.18
	ND			450		20-40 ?	hrln-⅛" 4'	several qtz-chl-cp-(py) veins gg	<0.5			447	98	53	81925	.21	<.01			.001		.10
	ND			460		0-40	hrln-¼"	numerous qtz-(chl)-cp-Mo-(py) veins	<0.5			457	95	43	81926	.36	<.01			.009		.18
FAULT ZONE (465'-489')	ND			470		?	5'	brx-gg-(cp)-(py)	<0.5			467	95	20	81927	.21	<.01			.002		.06
	ND			480		?	10'	brx-gg-hem ← 2' competent gg	<0.5			477	80	13	81928	.19	<.01			.020		.06
	ND			490		?	9'	brx-gg-hem	<0.5			487	80	13	81929	.35	<.01			.004		.05

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alln	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND				60 40	¼" ⅛"	qtz-carb-(chl) qtz-chl-cp	<0.5			497	90	50	81930	.24	.02			.017		.07
			500		80 30x2	1" ⅛"x2	qtz-(chl)-(carb) qtz-chl-cp														
	ND				30	⅓"	qtz-chl-cp	<0.5			507	95	57	81931	.19	<.01			.004		.09
			510		30 40	¼" ½"	qtz-(Mo)-(cp) qtz-chl-cp														
	ND				30x2	½"x2	qtz-chl-cp	<0.5		← ep alt'n	517	95	63	81932	.26	<.01			.002		.15
					30	½"	qtz-chl-cp														
			520		30	¼"	qtz-chl-cp														
					10x2	⅛"x2	qtz-chl-cp														
	ND				50x3	⅓"+¼"+½"	qtz-chl-(Mo)	<0.5		← ep alt'n	527	98	80	81933	.23	<.01			.005		.10
					20	⅛"	qtz-chl-cp														
			530		40	¼"	qtz-cp														
	ND				40x3	⅕"x3	qtz-chl-(cp)	<0.5			537	95	63	81934	.45	<.01			.017		.20
					30	½"	qtz-chl-(cp)														
					20-60	⅛"-½"	several qtz-chl-cp-(Mo) veins														
			540		40	⅛"	qtz-chl-cp														
	ND				10	½"	qtz-chl-(carb)-cp-py	0.7			547	90	60	81935	.55	<.01			.019		.20
					?	2'	brx-cp-py														
					0	⅓"	qtz-chl-cp-(py)														
			550		10+40	¼"x2	qtz-chl-py-(cp)														

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS / REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE	
	ND	560	30 70 30 30	1/10" 1/10" 1/8" 1/8"	qtz-chl-py-(cp) qtz-(chl)-cp qtz-py-(cp) qtz-chl-cp	<0.5		557	100	77	81936	.14	<.01			.003		.10	3320
	ND	570	40 20+30 0-40 0-20	1/8" 1/2"+2/3" 1/10"-1/2" 1/3"	qtz-carb-py-cp qtz-chl several qtz-chl-cp-py veins qtz-(chl)-cp	0.5		567	98	67	81937	.26	<.01			.004		.20	
	ND	580	0-40	hrln-1/8"	numerous qtz-chl-cp-py veins	0.5		577	95	70	81938	.16	<.01			.003		.15	
	ND	590	0-10 80	1/4" 6"	qtz-chl-cp-py ep-(qtz)-(cp)	<0.5		587	100	70	81939	.16	<.01			.002		.10	
	ND	600	30 30 0	1/10" 1/4" 1/3"	qtz-py-(cp) ← bleb of qtz-chl-cp qtz-(chl)-py-(cp) qtz-chl-cp	<0.5		597	100	63	81940	.19	<.01			.004		.08	3275
	ND	610	30x2 30 30 30	1/10"x2 1/4" 1/3" 1/4"	qtz-chl-cp qtz-chl-cp qtz-chl-cp qtz-chl-cp	<0.5	← ep alt'n	607	100	60	81941	.24	<.01			.009		.10	

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type	Alin ∠	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND			620		0-30	hrln-⅓"	numerous qtz-chl-carb-cp-py veins	0.6			617	100	60	81942	.47	<.01			.014		.26
	ND			630		?	8'	fractured qtz-Mo-cp vein ← narrow intervals of LEUCO	<0.5		Mo occurs as fine bands and within qtz giving it a blue-grey color.	627	95	53	81943	.55	<.01			.133		.30
	ND			640		40 0-30	2½" hrln-⅛"	LEUCOCRATIC PHASE numerous qtz-chl-cp-(py) veins	<0.5			637	95	33	81944	.80	.01			.004		.25
	ND			650		0-30	hrln-⅛"	numerous qtz-chl-cp-py veins	0.8			647	95	50	81945	.48	<.01			.002		.20
	ND			660		20-40	hrln-¼"	numerous qtz-chl-cp-py veins	1.0			657	95	70	81946	.36	<.01			.002		.28
	ND			670		20-30	hrln-½"	numerous qtz-chl-cp-py veins	0.8			667	100	80	81947	.19	<.01			.003		.20

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Attn Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	680	20-30	hrln-⅛"	numerous qtz-chl-cp-py veins	0.5			677	100	87	81948	.16	<.01			.002		.06
	ND	690	20-30	hrlnn-⅛"	several qtz-chl-(py)-(cp) veins	<0.5			687	100	87	81949	.13	<.01			.002		.03
	ND	700	20-30	hrln-⅛"	several qtz-chl-cp-py veins	0.5			697	100	90	81950	.46	<.01			.003		.12
	ND	710	20-30	hrln-1/16"	several qtz-chl-(py)-(cp) veins	<0.5			707	98	43	81951	.22	<.01			.383		.06
			?	5'	fractured qtz-Mo-(cp) vein														
	ND	720	20-30	hrln-⅛"	numerous qtz-chl-cp-py veins	0.5			[illegible]	95	60	81952	.24	<.01			.440		.15
	ND	730	20-30	hrln-¼"	numerous qtz-chl-py-(cp) veins	1.2			727	100	67	81953	.10	<.01			.003		.06

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx	Type & Attn	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
						30	1/3"	qtz-chl-py-(cp)-(mag)		OVERBURDEN												
						30	1/8"	qtz-chl-py-(cp)		LEACH CAP			100									
	IID					30×2	1/4"×2	qtz-chl-py-(cp)	0.8	OXIDE												
						30	1/4"	qtz-chl-py-(cp)		SUPERGENE		737										
				740		30	1/4"	qtz-chl-py-(cp)														
	IID					0-40	hrln-1/4"	numerous qtz-chl-py-((cp)) veins	1.5				100	80	81954	.12	<.01			.002		.10
				750								747										
	IID					20-40	hrln-1/4"	numerous qtz-chl-py-(cp) veins	1.2				100	73	81955	.09	<.01			.001		.05
				760								757										
	IID					20-30	hrln-1/3"	numerous qtz-chl-py-(cp) veins	1.2				100	80	81956	.12	<.01			.008		.10
				770								767										
	ND					30-40	hrln-1/4"	numerous qtz-chl-py-(cp) veins	1.2				98	67	81957	.20	<.01			.003		.10
												777										
	ND					20-40	hrln-1/4"	numerous qtz-chl-py-(cp) veins	1.0				100	73	81958	.14	<.01			.002		.12
				790								787										
														87	81959	.14	<.01			.002		.10

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BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

REMARKS

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type	Alm	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND			800		30×3 70 30 30×10	1/8"×3 3" 1/4" 1/16"×10	qtz-chl-py-(cp) ep-(qtz) qtz-chl-py-(cp) qtz-chl-py-(cp)	1.2	797	100	80	81960	.10	<.01			.002		.10
	ND			810		40 30-40	1/2" hrln-1/2"	qtz-Mo numerous qtz-chl-py-(cp) veins	1.6	807	98	73	81961	.20	<.01			.008		.15
	ND			820		30-40 ?	hrln-1/4" 1"	numerous qtz-chl-py-cp veins fractured qtz-Mo-(cp) vein	1.5	817	98	57	81962	.43	.01			.066		.22
	ND			830		30-50	hrln-1/3"	numerous qtz-chl-py-cp veins	0.7	827	95	80	81963	.40	<.01			.010		.15
	ND			840		? 40 40	1" 1/2" 1/4" qtz	brx-gg-py-cp qtz-chl-py-(cp) qtz bleb qtz-chl-py-(cp)	0.5	837	95	57	81964	.22	<.01			.003		.05
	ND			850		? 40-50	1" hrln-1/4"	fractured qtz-(Mo)-(cp) vein numerous qtz-chl-py-(cp) veins	1.0	847	98	73	81965	.19	<.01			.011		.12

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alt'n	GRAPHIC LOG Footage	GRAPHIC LOG Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE	BOTTOM DEPTHS ESTIMATE	BOTTOM DEPTHS ACTUAL	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		857		40 40x3	1/8" 1/16"x3	qtz-chl-py qtz-chl-py-(cp)	0.5	OVERBURDEN			857	100	87	81966	.11	<.01			.003		.03
									LEACH CAP													
									OXIDE													
									SUPERGENE													
									REMARKS													
							E.O.H. @ 857'															
							Murray Rydman															

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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LOCATION PGEC Zone | BEARING - | LATITUDE (N) 50,498.84 | CORE SIZE NQ | LOGGED BY G. Grubisa
DATE COLLARED April 6, 1997 | LENGTH 767' | LONGITUDE (E) 49,578.21 | SCALE OF LOG 1" = 10' | DATE April 18, 1997
DATE COMPLETED April 7, 1997 | DIP -90° | ELEVATION 3885.40 Est | REMARKS Drilled on access road near test pit

ROCK TYPES and ALTERATION SYMBOLS

- NORMAL MINE PHASE TONALITE
- QTZ-SER-CHL-PY ALTN PHASE
- CHL DARKENED MINE PHASE TONALITE
- MASSIVE QTZ VEIN
- QTZ-SER-PY ALTN PHASE

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

badly broken rock; fault gouge; ↑ increase; ↓ decrease; ( ) minor amount; (( )) very minor amount

altn = alteration; az = azurite; bo = bornite; brx = broken rock; bx = breccia; carb = carbonate; cc = chalcocite; chl = chlorite; chry = chrysocolla; cp = chalcopyrite; cup = cuprite; diss = disseminated; ep = epidote; gg = gouge; gr = garnet; gyp = gypsum; hem = hematite; lim = limonite; mag = magnetite; mal = malachite; MnO_2 = pyrolusite; Mo = molybdenite; mod = moderate; nat Cu = native copper; ND = non directional; pied = piedmontite; py = pyrite; qtz = quartz; rx = rock; saus = saussurite; ser = sericite; sph = sphalerite; str = strong; StWk = stockwork; tet = tetrahedrite; wk = weak

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN	30'	25'
LEACH CAP	–	–
OXIDE	140'	148'
SUPERGENE	170'	170'

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Altn / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
		30			CASING TO 30'			30										
(30'-767') NORMAL AND CHLORITE DARKENED MINE PHASE TONALITE UNLESS OTHERWISE NOTED IN LOG. THERE	70 vw	40	90	4"	ep-qtz vn	0		37	70	40	82001	.09	.08			.006		.02
				3"	gg→ lim-py-chl		lim staining starts @ 39'											
IS AN UNUSUAL MASSIVE QTZ ZONE/ QTZ-SER±CHL-PY ZONE FROM 279'-370'. HOLE CONTAINS RELATIVELY HIGH PYRITE.	70 vw to ND	57		5"	gg→ lim-MnO_2	0	lim-MnO_2 staining on core & in fractures thruout interval	47	96	50	82002	.13	.09			.001		.05
	ND	60				0	lim-MnO_2 on fractures thruout interval.	57	100	70	82003	.06	.03			.001		.05
							58.5'-62' → increase lim staining of core											

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alin	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE	
	ND		70					0		lim-MnO_2 staining on core + in fractures throut interval. 67-72' → Mod-str lim staining on core	67	100	57	82004	.04	.02			.002		.05	3815
	ND		80		70	1/2"	chl-lim-py	<5		lim-MnO_2 staining on core + in fractures throut interval. 1st py occurrence @ 77'	77	98	63	82005	.04	.02			.003		.05	
	ND		90		70	<1/2" x 8	chl-py-(lcp)	<5		lim-MnO_2 on fractures throut interval.	87	90	83	82006	.12	.03			.004		.05	
	ND		120		70	5"	lim stained leucocratic dyke.	<5		lim-MnO_2 staining on core + in fractures throut interval. 94-96' → intense lim staining of core.	97	100	67	82007	.16	.06			.007		.05	
	ND		137					0		lim-(MnO_2) on fractures throut interval.	137	100	15 63	82008	.06	.04			.003		.05	
	ND		120		60	1"	brk grz-lim vn	0		lim-MnO_2 on fractures throut interval	117	100	53	82009	.16	.07			.015		.05	3770

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Type & Attn / Rx / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS: ZONE / ESTIMATE / ACTUAL — OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	130	30 60	1" ½"	qtz-lim vn chl-qtz-py	<.5	120-23' → intense lim staining of core. lim-MnO_2 on fractures throut interval	127	100	63	82010	.18	.04			.034		.05
	ND	140	50 50	10" ½-⅓"x10 ⅛"x3	brx→↑lim chl-qtz-py-(cp) chl-qtz-py-(cp)	<.5	lim-(MnO_2) on fractures throut interval.	137	100	70	82011	.45	.04			.037		.07
	ND	150	60	2" 3"	brk qtz vn w/ lim gg-brx	0	lim on fractures throut interval. lim zone ends @ 148' 148'-62'→	147	100	60	82012	.17	.05			.015		.06
	ND	160	50	1' 8' ¼"x4	gg brx/gg →hem chl-py-cp	<.5	hem staining of core.	157	65	13	82013	.45	.02			.006		.06
	ND	170	30 30-50 20	⅛" ⅛-¼"x35 ⅛"	qtz-chl-cp vn chl-qtz-py-cp qtz-cc-cp-Mo vn	1.3	cc [illegible] @ 167'	[illegible]	95	43	82014	.56	.01			.014		.33
	ND	180	40 70 60	½"x4 1" ¼"x5	chl-qtz-py-cp qtz-cp-[illegible] chl-qtz-py-cp	.5		177	90	50	82015	.42	.01			.020		.09

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

BOTTOM DEPTHS ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
182-205' → FAULT • very poor recovery • no hem staining. • mainly brx w/ some gouge that is visible	70 wk	190	?	3"+5"+5"	qtz-Mo-(cp) vns.	<.5	~3½' washed out core.	187	65	2 10	82016	.49	<.01			.046		.07
(There probably was alot of gouge but it was was washed away) ↓	ND	200		10'	gg-brx	?	~7½' washed out core	197	2' 25	0	82017	.82	<.01			.025		?
	ND	210	 70	2" 5' ½"x3	brx qtz(cp)vn brx chl-cp	<.5	205'-18' → hem staining on core.	207	30	13	82018	.42	<.01			.009		.05
	ND	220	70 60	1/16"x2 1' 1' 4" zone	chl-cp brx brx qtz-ser-chl-py-cp-Mo	<.5		217	95	60	82019	.30	<.01			.003		.10
220.5'-24' → ↓ in saussuritization	ND	230	30 50 [illegible]	½" ¼" 1"	vuggy qtz-chl-cp vn qtz-ser-cp [illegible] vn	<.5	223'-33' → [illegible]	[illegible]	100	80	[illegible]	.23	<.01			.004		.10
	ND	240	30	1/16"x10	chl-(qtz)-(py)-cp	<.5		237	100	90	82021	.23	<.01			.006		.07

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

REMARKS

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alin / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	250	5 ? 20	¼" 1" ¼"x2	chl-qtz-py-(cp) brk qtz-cp vn qtz-(chl)-py-cp	<.5		247	100	83	82022	.21	<.01			.001		.12
253'-79' →	ND	260	5 45 70	⅛"x4 ½" 8"	chl-py-(cp) wispy qtz-carb vn bull qtz vn	<.5		257	100	87	82023	.17	<.01			.002		.07
• Unusual Chlorite Darkened Tonalite • appears finer grained as matrix is less coarse • ↑ ser • carb veins + veinlets @ random orientations thruout interval	ND	270	60 90 10-50	½"x2 ½" ⅛"-¼"x10	qtz-(carb) vn qtz-carb-cp vn carb-chl-(cp)	<.5		267	100 64"	70	82024	.27	<.01			.002		.13
	ND	280	10-50	⅛"-¼"x10 2"	carb-chl-((cp)) "	<.5	↑ ser	277	75	13	82025	.38	<.01			.011		.15
279'-370' → Interbanded QTZ-SER±CHL-PY ALTN PHASE and MASSIVE QTZ-MO±CP VEINS • zone is primarily broken except for some QTZ-Mo vein intervals where the veins is	ND			2½'	brk qtz-Mo vn w/ser	1.0	diss py-cp	287	88	7	82026	.81	.01			.009		.28
• In the qtz veins, Mo appears both as veinlets and as dissaminations where the qtz vein has a greyish color to it. These grey areas may contain crypto-xstalline Mo mineralization.	ND	300	30 Mo veinlets	13' 6'	"→↑ser qtz-Mo vn w/ser	.5	~5' core washed out	297	45	7	82027	.54	.01			.115		.18

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alln / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	50 mod in ser zone	310		1' brK qtz-Mo vn w/ser 4' qtz-ser-py-cp 5' qtz-(py)-Epi-Mo vn w/ser	1.0		309-15' → competent vein	307	70	13	82028	.49	.01			.076		.26
	70 vn in ser zone	320		7' qtz-(py)-(cp)-Mo vn w/ser 3' qtz-ser-py-cp-Mo	1.0		vugs in vein F. grained Mo	317	82	37	82029	1.00	.01			.028		.45
	60 mod in ser zone	330	60 60	2' qtz-ser-py-cp-Mo 7½' qtz-py-cp-Mo vn w/(ser) 5" qtz-ser-chl-py-cp-Mo 6" qtz-ser-chl-py-(cp)	1.0		323-27' → vuggy appearance	327	88	30	82030	1.09	.01			.117		.58
	60 mod in ser zone	340	70	2' qtz-chl-Mo vn 2' qtz-ser-chl-py-cp-Mo 6" qtz-ser-chl-py-cp-Mo 5½' qtz-Mo-((py))-((cp)) vn	<.5		330-51' → competent zone 335-56' → Mo appears finer grained	337	95	80	82031	.28	.01			.212		.15
	ND	350	50 30°	6" qtz-ser-chl-py-cp Mo veinlets qtz-((py))-((cp))-Mo vn	<.5			347	92	77	82032	.34	<.01			.204		.20
	ND	360	20	8" qtz-ser-(chl)-py-(cp) 9½' qtz-((py))-((cp))-Mo vn	<.5			357	100	40	82033	.12	<.01			.172		.08

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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BOTTOM DEPTHS ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	370		5" 10'	qtz-ser-chl-py qtz-((py))-((cp))-Mo vn	<.5		357	30" 100	7	82034	.20	.01			.362		.11
	ND	380	80 5-90	½" ½"x 80	qtz-cp-Mo vn chl± qtz-(py) cp-(ser)	1.5	370'-74' → continued ↑ in ser diss py-cp throughout interval in addition to a good py-cp fracture density	377	70	30	82035	.96	<.01			.015		.60
	ND	390	40-60 80	18" ½"x8 2"	qq-brx chl-(qtz)-py-cp-(Mo) vuggy qtz-chl vn	.7		397	100	23	82036	.48	<.01			.021		.15
	ND	400	30 30	½"x3 4" ½" 3"	chl-py qq → ↑clay py vn. qq	<.5	392'-96' → ↑ ser	377	100	57	82037	.06	<.01			.002		.06
	ND	[illegible]	90 20 60	3" ¾" ½"-¼"x8	vuggy qtz vn vuggy qtz vn. qtz-chl-py-(cp)	.5		[illegible]	100	70	82038	.11	<.01			.002		.12
	ND	420	40 50 90 30-50	½"x5 2" 1" ¼-½"x20	chl-py ep-qtz vn qtz-py-cp-Mo vn qtz-chl-py-(cp)-(ser)	1.3		417	100	70	82039	.25	<.01			.003		.18

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alter.	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE	
	ND		430		5-30	1/8"-1/2" x 25	qtz-chl-(ser)-py-cp	2.2			427	100 / 55"	83	82040	.19	<.01			.004		.21	3455
	ND		440		30-60	1/16"-1/2" x 15	qtz-chl-py-((cp))-(ser)	.8			437	100	4 / 63	82041	.12	<.01			.002		.09	
447'-57' →	ND to 70 mod		450		20-40	1/16"-1/8" x 15 / 1"	qtz-chl-py-(ser) / brK qtz-ser-chl-((cp)) vn	.6			447	100	50	82042	.16	<.01			.002		.12	
• 'regular' Tomslite texture is absent. Structures are now folded weakly • ↑ ser and ↑ chl • mineralized stringers present ↑ in ser content continues to 509'	ND		460		5-90 / 30 / 90	1/16" x 45 / 2" / 1/2"	chl-ser-py-(cp)-(carb) / qtz-chl vn / carb	2.5		↑ ser for interval	457	95	73	82043	.10	<.01			.002		.13	
	ND		470		5-90	1/16" x 35 / 2" / 1"	chl-ser-py-((cp)) / brx / as-brx	2.2		↑ ser for interval	467	100	27	82044	.07	<.01			.002		.15	
	ND		480		40-70	1/16" x 25	chl-ser)-py-((cp))	1.7		↑ ser for interval	477	100	43	82045	.06	<.01			.004		.15	3410

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Altn	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		490		60	1/16" x 10	chl-ser-py-(cpl)	1.0			487	100	73	82046	.04	<.01			.003		.08
					60	1/2" x 10	qtz-chl-py			↑ ser for interval											
	ND		500		60	1/8" x 8	qtz-chl-py-ser	.9			497	100	73	82047	.07	<.01			.002		.06
					60	3/8"	qtz-py			↑ ser for interval		102"									
	ND		510		60	3/8"	ser-py	1.5			507	100	14 57	82048	.29	<.01			.005		.18
					50-70	1/16" - 3/8" x 30	qtz-chl-ser-py			↑ ser for interval											
						5"	bnd qtz-Mo vn														
	ND		520		30	1/4"	qtz-carb-py	.8			517	100	63	82049	.13	<.01			.010		.09
					5	1/2"	qtz-chl-py														
					30	3/8"	qtz-cp-Mo vn														
	ND		530		60	3/4"	qtz-chl-ser-Mo vn	1.4			527	100	50	82050	.21	<.01			.003		.08
					50-60	1/16" x 10	qtz-chl-ser-py-(cpl)														
	ND		540		30	1/4"	qtz-py vn	2.5			537	100	70	82051	.18	<.01			.006		.13
					30-50	1/2" - 3/8" x 25	qtz-chl-(ser)-py-(cp)														

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Attn	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		550		20 20-40	¼" ½-⅝"x20	qtz-Mo-(cp) vn qtz-chl-ser-py	1.3		543-48' → wk hem staining of core 548-52' → ↑ in ser content	547	100	53	82052	.10	<.01			.005		.07
	ND		560		70 60	¼"x2 ⅛"x6	qtz-chl-ser-py-(Mo) qtz-chl-ser-py-(cp)	.8			557	100	80	82053	.09	<.01			.006		.10
	ND		570		40-70 90 5	⅛-⅜x25 ½" ½"	qtz-chl-(ser)-py-cp qtz-carb-py-cp-Mo vn qtz-py-cp-Mo vn	2.5			557	100	63	82054	.25	<.01			.021		.29
	ND		580		5 10-70 70	½" 2" ⅛-⅜"x40 2"	qtz-py-cp-Mo vn gg. qtz-chl-(ser)-py-cp eq-qtz vn	3.0			577	100	8 60	82055	.21	<.01			.015		.26
	ND		590		10-20 70 90	⅛"x4 4" ¼"<3	qtz-chl-cp-(py) eq-qtz vn qtz-chl-ser-py	.8			587	90	80	82056	.19	<.01			.003		.14
	ND		600		40-60 60 90	⅛-¼"x25 1" 10°	qtz-chl-(ser)-py-cp qtz-cp-Mo vn qtz-cp vn	1.8			597	100	97	82057	.31	<.01			.010		.45

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type Alt Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE	
	ND	610	90-60 60	⅛-2"x40 1"x2	qtz-chl-ser-py-cp-((Mo)) qtz-chl vn	3.5		607	100	100	82058	.17	<.01			.004		.21	3275
	ND	620	90-60	⅛-1"x30	qtz-chl-ser-py-(cp)-(Mo)	2.2		617	100	73	82059	.10	<.01			.003		.10	
	ND	630	50-70 60	⅛-¾"x20 15"zone	qtz-ser-chl-py-(cp) qtz-ser-py	1.8		627	100	90	82060	.12	<.01			.004		.13	
	ND	640	70 50-70 70	½" ⅛-¾"x45 4"	qtz-Mo vn qtz-chl-ser-py-(cp) qtz-ser-py	2.0		637	100	57	82061	.33	<.01			.006		.25	
	ND	650	30-70 70 80	⅛"x8 ⅛-½"x15 3"	qtz-chl-ser-py-cp [illegible] qtz-py vn	1.2		647	100 54"	63	82062	.18	<.01			.003		.10	
	ND	660	70 70 70	1" ½" ⅛"x4	qtz-ser-py-cp-vn qtz-Mo vn chl-qtz-py	.6	with bio 5% mag 5% core	657	100	53	82063	.13	<.01			.065		.06	3230

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Type & Attn / Rx / Structure / Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	670	50-70	1/16-1/8" x 30	qtz-chl-py-((cp))	1.7		667	100	50	82064	.11	<.01			.004		.11
	ND	680	70 30 70	1/2" 6" 1"	qtz-ser-py ep-pod vn qtz-ser-carb-py	1.0		677	100	70	82065	.05	<.01			.001		.05
	ND	690	70 80	1/8" x 10 1 1/2"	qtz-chl-py-(ser) qtz-ep vn	1.0	end of hem stained core	687	100	67	82066	.05	<.01			.001		.06
693'-95' → LEUCOCRATIC DYKE	ND	700	70 70	1/4" 2' 1/2" 10"	qtz-py leucocratic dyke qtz-(Ms)-ser vn leucocratic dyke	.6	690-701' WK hem staining of core.	697	100	70	82067	.07	<.01			.004		.06
	50 WK	710	60 70 30	1/8" x 2 1/8" x 2 1/4"	qtz-chl-py qtz-chl vns. qtz-py	.8		707	97	93	82068	.03	<.01			.001		.05
713'-37' → • ↓ chl content (5-15%) • some sericite alt'n • mod saussuritization.	ND	720	50 70 70	8" 3/8" 1/4"	leucocratic dyke qtz-chl-(cp) qtz-ser-py-cp	<.5		717	100	93	82069	.05	<.01			.001		.08

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

BOTTOM DEPTHS		
ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG (Rx Type & Altn / Footage / Structure)	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	730	80	¼"	qtz-ser-py	<.5	728'-64' →	727	100	87	82070	.05	<.01			.001		.04
	ND	740	fshes 70 60	8" zone 5" 1/16"×4	qtz-ser-chl-py qtz vn qtz-chl-py	<.5	wk-mod hem staining of core	737	100	77	82071	.04	<.01			.002		.06
	ND	750	40 60 30	1/16"×10 ⅛" ½"×2	qtz-chl-(ser)-py-(cp) qtz-carb vn qz vn	.5		747	100	63	82072	.05	<.01			.001		.07
	ND	760	50 90 30	5" zone 1" 2"	qtz-ser-py qtz vn cl-qtz vn	.5		757	100	93	82073	.06	<.01			.001		.06
	ND	767	60	⅜"	qtz-ser-py	<5		767	100	—	82074	.06	<.01			.001		.05

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[signature]

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

LOCATION	PGEC Zone	BEARING	—	LATITUDE (N)	50 118.33
DATE COLLARED	April 7, 1997	LENGTH	787'	LONGITUDE (E)	49 312.06
DATE COMPLETED	April 8, 1997	DIP	-90°	ELEVATION	3841.29 feet

CORE SIZE	NQ	LOGGED BY	G. Grubisa
SCALE OF LOG	1" = 10'	DATE	April 7, 1997
REMARKS	Drilled on main Pollyanna Haul Road ~200' W of test pit		

ROCK TYPES and ALTERATION SYMBOLS

- NORMAL MINE PHASE TONALITE
- CHLORITE DARKENED MINE PHASE TONALITE
- DARK CHLORITE ALTN PHASE
- MASSIVE QTZ VEIN
- LEUCOCRATIC PHASE

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

badly broken rock; fault gouge; ↑ increase; ↓ decrease; ( ) minor amount; (( )) very minor amount

altn = alteration; az = azurite; bo = bornite; brx = broken rock; bx = breccia; carb = carbonate; cc = chalcocite; chl = chlorite; chry = chrysocolla; cp = chalcopyrite; cup = cuprite; diss = disseminated; ep = epidote; gg = gouge; gr = garnet; gyp = gypsum; hem = hematite; lim = limonite; mag = magnetite; mal = malachite; MnO_2 = pyrolusite; Mo = molybdenite; mod = moderate; nat Cu = native copper; ND = non directional; pied = piedmontite; py = pyrite; qtz = quartz; rx = rock; saus = saussurite; ser = sericite; sph = sphalerite; str = strong; StWk = stockwork; tet = tetrahedrite; wk = weak

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN	62'	57'
LEACH CAP	–	–
OXIDE	229'	229'
SUPERGENE	458'	458'

Log

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
		62			CASING TO 62'			62										
(62'-787') · Normal and Chlorite Darkened Mine Phase Tonalite unless otherwise noted in log.	ND	70		6'	chry staining of core; brk qtz vn w/ lim-Cu clay-chry-tenorite-MoS_2	0	abundant lim-chry-Cu clay throut interval	67	95	20	82701	.51	.44			.003		.30
· Strong oxide zone with an abundance of Cu clays. 77-83' → LEUCOCRATIC PHASE	ND	80			(chry) staining of core	0	abundant lim-Cu clay-(chry) throut interval. 74-83 → Cu clays on fractures are more of a green-brown color instead of the pistachio green	77	100	3	82702	.51	.35			.005		.80
· extremely broken · abundant greenish yellow Cu clay on fractures	ND	90		5'; 10" zone	brx → greenish yellow Cu clay/lim; chry staining of core; ← intense lim staining	0	abundant lim-Cuclay-chry on fractures thruout interval.	87	75	20	82703	.29	.25			.001		.50

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 97-30 Page 2 of 13

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alm	Rx Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE	ESTIMATE	ACTUAL	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND			100			6" zone	← intense lim stain minor hem on fractures abundant lim-Cu clays-(chlry) on fractures thruout interval.	0	OVERBURDEN			87'-94' → Cu clays are the typical olive/pistachio green 94-97' → Cu clays change color to more of a turquoise blue/green	97	100	30	82704	.52	.44			.001		.85
105-21' → POSSIBLE FAULT • mod- str hem staining of core	ND			110		70	½"x2 2'	epun gg w/hem-lim-↑Cu clay (gouge is totally inundated w/ Cu clays)	0	LEACH CAP			lim-Cu clay on fractures thruout interval. * Cu grade should be much higher? if gouge is Cu bearing	107	97	40	82705	.21	.18			.001		.35
• brx w/ intervals of gouge. All gouge zones appear to have been inundated w Cu clay as these zones have a greenish tinge.	ND			120		60	4½' 2"	gg w/ hem-↑Cu clay vuggy qtz-(chlry) vn	0	OXIDE			abundant hem-Cu clay on fractures thruout interval. * Cu bearing gouge	117	80	0	82706	.52	.48			.001		.80
	ND			130		10	½"	hem-lim-Cu clay	0	SUPERGENE			lim- yellowish Cu clay? on fractures thruout interval	127	92 70"	53	82707	.07	.05			.002		.17
	ND			137			2'	brx/(gg) → hem-Cu clay-(mal)-(chlry)	0				lim-(Cu clay) on fractures thruout interval	137	100	5 53	82708	.08	.07			.001		.13
	ND			150		30	1"	gg → lim-clay lim-Cu clays-(mal) on fractures.	0				• lim on fractures thruout interval • Cu clays-(mal) occur on fractures for latter half of interval.	147	100	43	82709	.14	.12			.003		.20

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type / Altn / Structure / Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ESTIMATE / ACTUAL	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
153-59' → LEUCOCRATIC PHASE • abundant greenish yellow Cu clay on fractures as per previous leucocratic unit.	ND	160		3' 7'	brx → ?ep-olivegreen Cu clay-hem brx → ? greenish yellow Cu clay	0	REMARKS: lim-Cu clays on fractures throout interval	157	78	7	82710	.14	.12			.001		.20
	ND	170	30 20	30' ½"×4	gg → hem qtz-chl-lim	0	lim-hem-Cu clays on fractures throout interval	167	100	60	82711	.05	.04			.001		.10
	ND	180	30-70	⅛-⅝"×20	← trace py qtz-chl-lim	<.1	lim on fractures throout interval	177	100	97	82712	.06	.05			.003		.05
189-203' → ↓ in chl content	ND	190	20-70	⅛-⅝"×30	qtz-chl-lim	0	lim on fractures throout interval	187	100	90	82713	.04	.03			.006		.05
Core also has a very minute greenish tinge To it. Possibility of Cu kick?	ND	200	20-70	⅛-⅝"×10	qtz-chl-lim	0	lim on fractures for 1st half of interval.	197	100	97	82714	.08	.03			.003		.08
	ND	210	30 5-10	1" ⅛"×3	qtz-chl-py vn qtz-lim-(py)	<.2	206-08' → lim stained core	207	100	100	82715	.22	.14			.003		.22

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Bottom Depths: Zone	Estimate	Actual
Overburden		
Leach Cap		
Oxide		
Supergene		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS₂	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
211-23′ → ↓ in chl content and an ↑ in ep content occurring both as [illegible] + clots. ↓	ND	220	70 70 60 5-30	3/4" 4" 2" hrlnx 15	qtz-chl-lim vn ep band qtz-lim vn qtz-lim-py-cc-(cp)	<.5	(lim) on fractures throut interval.	217	100	90	82716	.32	.03			.007		.12
	ND	230	20-60	hrlnx 5 2½"	(qtz)-(lim)-py-cc-((cp)) brx → (lim)- Cu clays	<.5	((lim)) on fractures throut interval	227	100	80	82717	.19	.05			.006		.23
	ND	240	5-20	1/16" x 4	py-cc-cp-lim	<.5	← lim zone ends @ 236′	237	100	97	82718	.36	.02			.004		.22
	ND	250	30	1/16" x 3	← Mo on fracture. cc-py	<.5		247	100	90	82719	.12	<.01			.006		.16
	ND		5-20 70	1/16" x 5 6"	qtz-cp leuco[illegible] dyke	<.5		257	100	53	82720	.11	<.01			.011		.08
	ND			2′	brx → chl-cp-(Mo) on fractures	<.5		267	100	77	82721	.20	<.01			.009		.10
		270	90	2"	qtz-carb-ep vn													

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE	
	ND	280	10 30	1/16" x2 1/4"	chl-cp qtz-carb-py	<.5	270-80' → clotty ep altn	277	100	63	82722	.12	<.01			.006		.04	
	ND	290	30 30	1/4" 1/2"	ep vn gg	<.5	hem on fractures	287	100	70	82723	.05	<.01			.005		.02	
	ND	300	60 80 80	1/16" x2 3/4" 3"+1"	chl-py-(cp) qtz-py-cc- ep-qtz vn	<.5		297	100	80	82724	.11	<.01			.001		.07	3545
	ND	310	30	1/8"	py-cp-qtz	<.5		307	100	57	82725	.06	<.01			.001		.06	
313'-64' → LEUCOCRATIC PHASE • wk to mod sericitization resulting in core having a slight green tinge to it. • mod [illegible] mineralization w/ qtz-py-cp and ep stringers	ND	[illegible]	5 5 30 5-30	1/16" 1/8" 1/2" x6	-chl-cp qtz-chl-cp ← py-cc-cp on fracture qtz-py-cp-Mo?	.5		317	100	50	82726	.14	<.01			.005		.17	
• Zone is relatively competent.	ND	330	10-60	1/16-1/8" x18	qtz-py-cc-cp	.8		327	100	70	82727	.17	<.01			.004		.28	

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS / REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE	
	ND	340	10 70-20	1/4" 1/16-1/4"x25	qtz-cpy-cp-Mo qtz-py-cp-(Mo)-(cc)	1.0		337	100	80	82728	.21	<.01			.023		.35	3500
	ND	350	5-70	1/16-1/4"x20	qtz-py-cp-cc-(Mo)	1.0		347	100 63'	80	82729	.21	.01			.025		.35	
	ND	360	5-70	1/16-1/4"x20	qtz-py-cp-cc-(Mo?)	.8		357	100	6 73	82730	.19	<.01			.008		.28	
364-448' → TONALITE/LEUCOCRATIC PHASE HYBRID • similar to previous unit but chlorite content has increased.	ND	370	5-30	1/16-1/8"x20	qtz-py-cp-Mo	.8		367	96	90	82731	.10	<.01			.001		.30	
	ND	380	20 ?? 50-??	1/16"x3 14" 3/8"x2 14" 1/16-1/4"x10	qtz-py-cp brx → (chl) qtz-ser-py-cp-cc brx → Cuclay? or ep clay? qtz-ser-py-cp-(cc)	.8		377	94	67	82732	.24	<.01			.004		.29	
	ND	390	70-50 70	1/16"x5 1/16"x5	← Cuclay or ep clay on fractures qtz-ser-py-cp-cc-(Mo) qtz-py-cp-(chl)	<.5		387	100	73	82733	.08	<.01			.002		.13	3455

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Attn / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	400	40 30-60	¼"+½" ½-¼"x25	qtz-cp-Mo-(cc) qtz-(chl)-py-cp	1.0	REMARKS: ← tarnished cp could be mistaken for cc	397	100	90	82734	.36	<.01			.001		.36
	ND	410	30-70	⅛-¼"x30	qtz-(chl)-(ser)-py-cc-cp	1.0		407	100	100	82735	.13	.01			.001		.24
	ND	420	5 30 20-30	⅜" ¼" ⅜-½"x4	qtz-ser-(chl)-cp-py-cp wispy qtz-chl-cp vn qtz-ser-py-cp-Mo	.7		417	100	87	82736	.51	.01			.007		.17
	ND	430	20-50	⅛-¼"x10	qtz-ser-py-cp	.5	← cc on fracture	427	100	93	82737	.15	<.01			.001		.15
	ND		5-30	⅛-¼"x15	cc on brx fractures qtz-(ser)-(chl)-py cp	1.0	[illegible]	437	80	33	82738	1.02	.01			.011		.50
	ND	450	10-60	⅛-½"x85	qtz-ser-(chl)-py-cp } cc on fractures. brk qtz-Mo vn	.8	← 448-52' → chl darkened silicified zone	447	100	60	82739	.41	<.01			.055		.47

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alln & Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
448-60' → CHL DARKENED TONALITE/ LEUCOCRATIC PHASE HYBRID • rapid ↓ in saussertization. • zone is abundantly fractured • mod ↑ in sericite	ND		460		30-70	½"-¼"x20	} d.ss cp+Mo qtz-ser-chl-py-cc-cp-Mo	.7	OVERBURDEN / LEACH CAP / OXIDE / SUPERGENE	↓ silicified zone cont'd	457	100	30	82740	.43	.01			.013		.26
460-67' → CHL DARKENED MINE PHASE TONALITE	ND		470		70 5 30	⅛"x5 ⅛"x4 3' 2"	qtz-chl(py)-(cp) qtz-chl-(py)-(cp) vuggy leucocratic phase. chl vn	<.5			467	82	37	82741	.21	<.01			.002		.15
467-73' → LEUCOCRATIC PHASE • vuggy + broken																					
473-97' → Back to "regular tonalite" w/ the usual coarse grained fabric.	ND		480		5-10	3' ⅛"x2	vuggy leucocratic phase chl-cp	<.5			477	78	53	82742	.07	<.01			<.001		.07	3365
	ND		490		20 20 5-20 70	⅛" ⅜" ⅛"x3 2"	chl-cp qtz-Mo-(cp) vn qtz-ser-py-cp qtz-cp vn	<.5		479-86' → mod hem staining of core. 486.5-88.5' → ↑ ser	487	100	63	82743	.41	<.01			.011		.23
497-523' → DARK GREENISH ASH PHASE • displays the usual coarse grained tonalite fabric, but is invaded w/ chl.	ND		510		10-50 30	⅛"-½"x7 ⅛"x2	qtz-chl-(py)-cp chl-cp	<.5		497-513' → mineralization pervasively steep + relatively thick chl-py-cp veins	497	100 75	70	82744	.28	<.01			.003		.24
	ND				5 5-20	⅜" ⅛-⅜"x8	qtz-chl-py-cp-(Mo) chl-(qtz)-py-cp-(Mo)	1.8			507	95	8 63	82745	.61	.01			.012		.93

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alin	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		520		10+30 30 35 40	⅛"x2 ¼" 1½" ⅛"x5	chl-cp qtz-Mo-(cp) vn qtz-carb vn w/diss Mo-cp qtz-carb-chl-(cp)	.7	OVERBURDEN / LEACH CAP / OXIDE / SUPERGENE minor diss py		517	100	43	82746	.37	<.01			.033		.21	3320
523'→ CHL DARKENED TONALITE	ND		530		40-60 30 20-70	⅛"x8 ⅛"x4 ⅛"x3	qtz-carb-chl chl-py-(cp)) chl-py-(cp))	.7			527	100	63	82747	.13	.01			<.001		.15	
	ND		540		15 0-90 30	⅛" ⅛"-¼"x6 2"	chl-qtz-py chl-qtz-(carb)-py-(cp)) qtz-carb-chl-cp-(py)	.7	533-535→ silicified chl thickened Tonalite		537	100	70	82748	.26	<.01			.001		.17	
	ND		560		60 70	⅛"x3 8" 1' 14" 1"	chl-cp brk qtz-(cp)) vn leucocratic dyke w/ser brx→↑ser-↑carb qtz-carb-Mo vn	<.5	minor diss cp 542'-547'→		547	95	37	82749	.28	<.01			.042		.12	
	ND				5-90	⅛"-¼"x25	chl-carb-py-cp	.8	↑in chl-carb veinlets		557	100	53	82750	.40	<.01			.001		.27	
	ND		570		5-70 20 20 5-20	⅛"x1 4" 1" ⅛"x4	chl-cp qtz-Mo vn chl-carb-qtz-Mo-(cp) chl-qtz-(py)-cp	<.5			567	100	70	82751	.33	<.01			.030		.24	3275

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE	---	---

REMARKS

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alfn Rx Type Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	580	10 20 20	1/16" x 2 1" 1/16 x 2	chl-cp qtz-chl vn chl-cp	<.5	578-81' → hem staining of core	577	113% 100	13 63	82752	.14	<.01			<.001		.10
	ND	590	90 30-50	1/2"-1" x 4 1/16"-1/8" x 10	qtz-chl-((cp)) vn chl-qtz-py-(cp)	.8		587	98	77	82753	.15	<.01			.001		.12
	ND	600	30 20 20 20	12" 3/4" 1 1/2" 2"	leucocratic dyke w/Tcp qtz-chl-cp vn qtz-ser-py-((cp)) qtz-ser-py	1.0		597	100	70	82754	.16	<.01			.001		.08
	ND	610	70 60	1/16" 1" Zone 7' 1/16 x 3	chl-cp qtz-ser-chl-cp-(py) gs/brx → Mo chl-qtz-py	.5	← semi massive cp 609-53' →	607	100	57	82755	.94	<.01			.004		.30
	ND to 60 wk	620	10 30 30-70 30 30	8" 1/8" 1/16-1/8 x 6 1/2" 9"	leucocratic dyke. carb chl-qtz-(py)-cp qtz-ser-chl-cp qtz-Mo-((cp)) vn	<.5	mod hem staining of core	617	100	67	82756	.37	<.01			.044		.20
	60 wk	630	40	1/8" x 5	chl-qtz-py-((cp))			627	92	37	82757	.08	<.01			.001		.05

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Attn Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	640	40 30	⅛" x 8 ⅛" x 2	qtz-ser-py qtz-chl-cp	.8		hem staining of core cont'd to 653'	637	100	47	32758	.15	<.01			.001		.07
	ND	650	80 60 60	2½' ⅛" x 4 <⅛" x 4	leucocratic dyke. chl (py) (cp) ? hem on fractures w/ carb chl-cp	<.5			647	95 95"	19 73	32759	.13	<.01			.002		.08
	ND	660	60 70	1' 1' ⅛" x 3 3'	brx/gg w/cp leucocratic dyke w/ cp veinlets chl-cp brk qtz-Mo-cp vn	<.5			657	100	37	32760	.33	<.01			.067		.16	3135
	ND	670	0-80	<1/16" x 25	qtz-chl-py-cp-(Mo)	.8		• most of cp occuring in last foot of vein 666'-80' → mod hem staining of core	667	100	53	32761	.50	.01			.003		.27
	ND	680	70 70	1" 3" core 6"	qtz-ser-py-(cp) qtz-ser-py-cp brk qtz-Mo-((cp)) vn	.7		671-80' → carb attn	677	100	30	32762	.31	<.01			.003		.16
	ND	690	60	2 ⅛" x 20	brk qtz-Mo-((cp)) vn chl-qtz-py-cp	.5			687	80	70	32763	.33	<.01			.021		.18

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BOTTOM DEPTHS		
ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG (Rx Type & Alt / Footage / Structure)	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE	
	ND	700	60 60	1/16" x 2 1/8" x 20	chl-qtz-py-cp chl-qtz-(py)-(cp)	<.5		697	100	80	82764	.12	<.01			.001		.11	3140
	ND	710	60-70	1/16" x 10	chl-qtz-py-(cp)	<.5	708-12' → core is friable and semi competent	707	95	47	82765	.15	<.01			.001		.10	
	ND	720	56 0	3/8" 1/4"	qtz-ser-py chl-py-((cp))	<.5		717	100 45"	47	82766	.09	<.01			.002		.07	
	ND	730		18"	gg w/ ↑chl-↑hem	<.5	723-40' → mod hem staining of core + on fractures [illegible] carb alt'n as well.	727	100	2 40	82767	.06	<.01			<.001		.04	
	ND	740		20"	gg w/ ↑chl	<.5	Tills in gouge?	737	93	47	82768	.05	<.01			<.001		.04	
	ND	750	60 30	1" + 3" 1/16" x 4	qtz-ser-py qtz-chl-py-((cp))	<.5	749-66' light-mod hem stain of core	747	100	80	82769	.04	<.01			.001		.05	3095

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx & Alin Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		760	70°	1/16"	qtz-chl-py	<.5		hem stain cont'd to 766'	757	98	57	82770	.06	<.01			<.001		.03
	ND		770	60	1/16"x3	qtz-chl-py-(cpl)	<.5		minor carb veinlets.	767	100	77	82771	.15	<.01			.001		.04
			780	70 80	1/8" 1/4"	qtz-chl-cp qtz-Mo vn	<.5		Core is competent but poor RQD resulting from fractures 0-10° to core axis	777	98	20	82772	.10	<.01			.001		.05
			787		4"	brk leucocratic dyke.	<.5			787	95	43	82773	.16	<.01			.002		.03
						787' E.O.H.															

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 97-34 Page No. 1 of 16

LOCATION POLY-GIBE. CONNECTOR AREA	BEARING —	LATITUDE (N) 49 842.70	CORE SIZE NQ
LOGGED BY G. E. BARKER			
DATE COLLARED April 13, 1997	LENGTH 970'	LONGITUDE (E) 50 405.12	SCALE OF LOG 1" = 10'
DATE APRIL 18, 1997			
DATE COMPLETED April 14, 1997	DIP -90°	ELEVATION 3941.165	REMARKS drilled on small dump west of Pollyanna entrance

ROCK TYPES and ALTERATION SYMBOLS

- Quartz, Sericite, (Carb) Alteration phase
- "Normal" mine phase tonalite
- Chlorite darkened Tonalite
- Leucocratic phase
- Chlorite, epidote Alteration
- massive quartz

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

- badly broken rock
- fault gouge
- ↑ increase
- ↓ decrease
- ( ) minor amount
- (( )) very minor amount

altn = alteration	cp = chalcopyrite	mag = magnetite	qtz = quartz
az = azurite	cup = cuprite	mal = malachite	rx = rock
bo = bornite	diss = disseminated	MnO_2 = pyrolusite	saus = saussurite
brx = broken rock	ep = epidote	Mo = molybdenite	ser = sericite
bx = breccia	gg = gouge	mod = moderate	sph = sphalerite
carb = carbonate	gr = garnet	nat Cu = native copper	str = strong
cc = chalcocite	gyp = gypsum	ND = non directional	StWk = stockwork
chl = chlorite	hem = hematite	pied = piedmontite	tet = tetrahedrite
chry = chrysocolla	lim = limonite	py = pyrite	wk = weak

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
OVERBURDEN	42'	37'
LEACH CAP	—	—
OXIDE	230'	260'
SUPERGENE	280'	280'

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
		42					CASING TO 42'	42										
MINE PHASE TONALITE 42' to "NORMAL" COMPOSITION 30% quartz	70 str	50			qtz, ser, (carb), lim, (mal)	0	core is vuggy 42' to 90' Str. to mod lim. 42' to 107' mod to wk lim 107' to 295'	47	20	3	82077	.22	.13			.004		.10
grain size 2 mm-4 mm 50% Saussuritized plag. feldspar 20% chlorite Variation and alteration of "Normal" Mine Phase	70 str to mod	60			qtz, ser, (carb), lim (mal) (clay)	0	core is mod. crenulated 52' to 60'	57	95	43	82078	.24	.20			.003		.05
Tonalite noted throughout Log. mod. to min clay altn 42' to 90'	60 mod	70	35 / 5° / 45°-50	1/2" / 1/2" / 1/16 x3	qtz, lim, (MnO_2) / lim, MnO_2 / qtz, lim, ((mal)) / qtz, chl, (lim)	0		67	90	30	82079	.07	.07			.001		.05
mod qtz, ser, (carb) altn 42' to 57' mod chl "darkened" altn 57' to 91'	60 mod	80	30-40	1/16 x3	lim, MnO_2 / qtz, carb	0		77	95	50	82080	.05	.04			.001		.05

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG: Altn / Type / Rx / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS: ZONE / ESTIMATE / ACTUAL; REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	60 mod	90	20	⅛	qt3, chl, lim, (mal) {(hem), (lim)} MnO_2 lim, MnO_2	0		87	96	17	82081	.04	.04			.001		<.05
qt3, carb, (ser) altn 91' to 101'	70 str	100	60-70		qt3, carb, (ser)	0		97	75	20	82082	.09	.05			.003		<.05
	60 wk	110	40 20	1/16" x 3 1/16" x 3	qt3, chl, lim, MnO_2, (mal) qt3, chl, lim, MnO_2, (mal)	0	vuggy core 102'6"/118'	107	98	27	82083	.13	.12			.002		.10
mod chl "darkened" altn 106' to 131'	60 wk	120	10 5-30	⅛ ⅛ x n	qt3, chl, lim, MnO_2, mal numerous vuggy veins qt3, lim, MnO_2 (mal)	0	n = numerous	117	99	20	82084	.13	.13			.001		.15
	60 wk	130	20-40 20-40	⅛ x n ⅛ x 4	vuggy veins qt3, MnO_2, {lim}, (mal) {chry} qt3, MnO_2, (lim), (mal)	0	str MnO_2 on fractures 118' to 135'	127	98	23	82085	.11	.11			.001		.15
	55 wk	140	30-90 20	⅓ x 4 ⅛ x 2	qt3, MnO_2, lim, mal "patchy" ep qt3 (MnO_2), lim, mal	0		137	99	67	82086	.13	.13			.001		.25

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alln Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN, LEACH CAP, OXIDE, SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
wk chl "darkened" altn 146' to 156'	55 wk	150	40-50	1/16 x 3	qt3, chl, (mal), (PY), (lim)	<1.5			147	100	53	82087	.09	.08			.001		.10
			40	~1"	ep "patch"														
	55 wk	160	30-40	1/8" x 5	qt3, chl, (Lim), (MnO_2), (mal)	0			157	100	77	82088	.15	.15			.001		.10
	55 wk to ND	170	10-30	1/8 x 6	qt3, chl, lim, (MnO_2), mal	0			167	100	40	82089	.16	.15			.001		.30
			60	1"	qt3, lim, massive chl														
			20-30	1/8 x 4	qt3, chl, Lim, mal, sup (MnO_2)														
	ND to wk 60	180	30	1/8 x 4	qt3, seri, lim, mal	0			177	99	57	82090	.17	.16			.001		.20
					"patchy" ep														
			20-30	1/8 x 3	qt3, (chl) (Lim), mal														
	mod 60	190	45	2"	qt3, Lim	0			187	100	83	82001	.22	.15			.005		.25
			40-45	1/8" x n	qt3, chl, Lim, mal														
mod chl "darkened" altn 189' to 200'	wk 60	200	35	1/8 x 3	qt3, chl, lim, mal	0			197	100	30	82092	.20	.20			.001		.40
			10	1/8 x 2	qt3, chl, Lim, mal														
			?	2"	qt3, chl.														
			40	1/8 x 3	qt3, chl, lim, mal, cavity														

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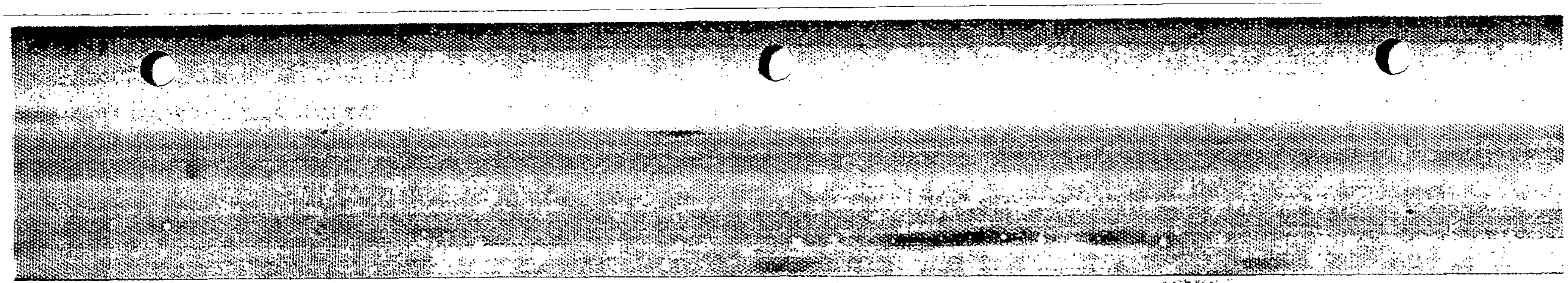

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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BOTTOM DEPTHS		
ZONE	ESTIMATE	ACTUAL
OVERBURDEN		
LEACH CAP		
OXIDE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG (Rx Type, Alt, Footage, Structure)	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	wk 60	210	35 ? 40-45	1/6×3 8" 1/16"×5	qt3, chl, (Lim), mal qt3, chl, (mal) qt3 chl, (Lim), mal	0		207	95	47	82093	.21	.19			.002		.20
	ND	220	0-30 45	1/8"×4 1/2"	qt3, chl, Lim, mal (cc?) vuggy qt3, (mal) "patchy" ep	0		217	98	80	82094	.20	.18			.001		.25
	ND	230	40 0-15 50	1/2" 1/8"×3 4"	qt3, (Lim), (mal) qt3, chl, Lim, (mal), (cp) qt3, chl, Lim	0		227	100	73	82095	.10	.07			.003		.10
	ND	240	0-10 15	1/8×3 1/8×3	qt3, chl, Lim, MnO2 (cc?), mal qt3, chl, Lim, (mal)	0		237	100	73	82096	.18	.13			.002		.30
	60 wk	350	35 50 45 30-40	1" 1/16"×4 1/2" 1/8×3	qt3, (Lim), mal qt3, chl, Lim, (py), (mal) vuggy qt3, MnO2 (cc?), mal, (Lim) qt3, chl, (Lim), (mal), py, (cp)	<.5		247	100	93	82097	.27	.05			.005		.20
	ND	260	7 0-15 35 20	2" 1/8"×5 1/2" 1/8×3	qt3, mal qt3, chl, Lim, (mal), MnO2 qt3, Lim qt3, chl, (Lim), (py), (cp)	<.5		257	100	83	82098	.16	.04			.005		.10

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Altn	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		270		40 10-30 20	1" ⅛"×5 ⅛×2	qt3 · carb qt3 , carb,(ser) , Lim, cp, (py) qt3 · chl , mal,(cp) ,(py) ,(lim)	<.5			267	100	83	82099	.14	.01			.003		.10
	65 wk		280		10-50 ? 30-40 40-60	⅛×3 2" ⅛"×4 ⅛"×3	qt3 · chl, cp , (lim) qt3 qt3 · chl, ((cp)) , py qt3 · chl , py , cp	<.5			277	100	90	82100	.13	<.01			.008		.20
wk chl "darkened" altn 277' to 285'	65 wk		290		30-50 ? 80 45	⅛×4 10" 2" ½"	qt3 · chl , (cp) , py massive qt3 , chl , (cp) qt3 brx with hem,(qg) cp	<.5			287	99	70	82101	.17	<.01			.004		.15
qt3 , ep altn 291' to 294'	60 wk		300		45 40 50-60	1/16"×3 1/16" ½"×2	qt3 , chl , py , (cp) "patchy" ep qt3 · chl , py , (lim) , (ser) qt3 , mag , (py)	<.5	lim ends.		297	100	90	82102	.09	<.01			.003		.05
	60 wk		310		70 30? 45-50 30-10	6" ⅓"×3 ½"×2 ⅛"×3	qt3 , mo chl , (py) qt3 , mo , py ((cp)) qt3 · chl , py , (cp) ep "patchy"	<.5			307	99	60	82103	.14	<.01			.017		.10
wk chl "darkened" 306' to 320'	60 wR		320		40-45 30-45	⅓"×5 ⅛×n	qt3 , chl , py , cp qt3 , chl , py , cp	.5			317	100	77	82104	.10	<.01			.004		.25

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alin	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND		330		30-40 45	1/8" x 3 1/4"	qtz, chl, py, (cp) qtz "patchy" chl, hem	<.5		Hem "staining" 320' to 338'	327	98	40	82105	.12	<.01			.003		.15
Leucocratic zone 328' to 337' ≈ 5% mafics small feldspar phenocrysts	ND		340					<.5		SMALL FAULT ZONE brx, (gg), hem	337	95	37	82106	.06	<.01			.003		.05
	ND		350		45 ? to 45	2" 4" 1/8" x 4	qtz qtz, chl "massive" qtz, chl, cp, ep	<.5		Hem on fractures	347	100	93	82107	.15	<.01			.001		.10
	ND		360		40 ? 25	1/8 x 3 2" 1/8	qtz, chl, cp, (py) qtz, chl "massive (cp) ep "patches" qtz, chl, ep, cp	<.5			357	100	87	82108	.11	<.01			.001		.15
	ND		370				ep "patches"	<.5			367	100	67	82109	.11	<.01			.001		.05
Str chl - mod ep altn 367' to 378'	?		380				diss py, (cp) in chl-ep altn.	.5			377	100	43	82110	.10	<.01			.002		.20

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
wk to mod chl "darkened" altn 378' to 418'	55 mod	390	20-35 15-20	1/8" x 5 1/8" to 1/4" x 4	qtz, chl, cp, (py) qtz, chl, cp, (py)	<.5	} wk hem "staining"	387	100	57	82111	.16	<.01			.003		.30
	60 wk	400	10-30	1/8" to 1/4"	numerous veins of qtz, chl, cp, (py)	<.5		397	100	63	82112	.16	<.01			.006		.40
	60 wk to mod	410	20 10-30	1/16" x 3 1/16-1/8 x 4	qtz, chl, py, (cp) qtz chl, py (cp)	<.5		407	99	30	82113	.06	<.01			.002		.10
	65 mod	420	10-30 20 40	1/8" x 3 1/8" x 4 2"	qtz, chl, cp, (py) qtz, chl, cp, (py) qtz, (ser), Mo	<.5		417	97	43	82114	.16	<.01			.004		.25
• minor to moderate increase in quartz • felspar grains distinct and somewhat oval shaped [illegible] zone.	ND	430	2 vein sets major set 10-20° minor ≈ 45-50°		numerous hrln to 1/8" veins throughout section qtz, chl, cp, (py), mo (ser)	<.5	Mo associated with qtz grains 420 to 455' minor veins (45-50) [illegible] major viens	427	99	60	82115	.10	<.01			.002		.30
• decrease in Saucerization 420' to 455'	ND	440	——	Same	as 420' to 430' ——	<.5		430	99	40	82116	.06	<.01			.002		.20

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type Alfa Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	ND	450	Same	as 420–430	<.5		447	99	63	82117	.14	<.01			.001		.25
mod chl "carbonate" altn 455' to 461'	ND to 45° str	460	Same 35-45 35	as 420-430' numerous 1/16" to 1/8" 7"	<.5		457	98	67	82118	.24	<.01			.011		.30
	45° str + mod	470	0-5 30 25	1/8" 1/8" x 4 1/8" x 3	qtz, chl, (ser), (cp), py ep "patches" qtz, chl, (py), cp qtz, chl, (py), (cp)	<.5	1/2" chl bnd along 1/8" veins	467	100	63	82119	.12	<.01			.006		.20
	ND	480	0-30 25-35	1/8" x 3 1/16 x 4	qtz, chl, (py), (cp) qtz, chl, (py), cp	<.5	1/2" chl bnd along 1/8" veins	477	99	57	82120	.07	<.01			.006		.20
	ND	490	30	1/8 x 2	qtz chl, (py), (cp) patchy ep	<.5		487	100	70	82121	.04	<.01			.003		.10
	ND	500	50 50-40 30	1" 1/8" x 3 1/8" x 3	cp qtz, chl, (py), (cp) qtz, chl, (py), cp	<.5		497	100	77	82122	.21	<.01			.006		.10

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS / REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS₂	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
wk chl "darkened" altn 501' to 513'	50 wk to mod	510	10-20 5-15	1/8" x 3 1/8" to 1/4" x 4	qtz, chl, py, (cp) qtz, chl, py, cp	.5		507	100	77	82123	.30	<.01			.011		.30
	50 mod to wk	520	10-20 15-30	1/8" x 4 1/8" to 1/4" x 4	qtz, chl, py, cp qtz, chl, py, cp, mag, (Mo)	.5	n = numerous	517	100	70	82124	.20	<.01			.010		.30
	50 wk to ND	530	10-30 ?50	1/8 x n 2"	qtz, chl, py, cp, (Mo) ep "patches" qtz	<.5		527	100	63	82125	.15	<.01			.005		.20
	55 wk	540	35 10-25 40°	1/8 x 3 1/8 to 1/4 x 2 2"	ep "patches" qtz, chl, py, cp qtz, chl, py, cp qtz, ep	.5		537	100	77	82126	.28	<.01			.008		.20
haucocratic phase 543' to 551'	ND	550	10-20 10-20	1/8" x 4 1/8" x 2	ep "patches" qtz, chl, py, (cp) qtz, [illegible]	<.5		547	100	53	82127	.22	<.01			.007		.20
	ND	560	10-15	1/8" x 2	qtz, chl, py, cp } hem - brx - qq	<.5		557	99	47	82128	.15	<.01			.002		.15

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Altn	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
Nearly continuous chl. darkened altn. zone occurs from 558' to E.O.H. Zone is very well mineralized with cp	65 wk to mod		570		0 to 30°	1/16 to 1/8 x n	qt3, chl, cp, py, (mo)	.5		brx - qq n = numerous	567	98	50	82129	.33	<.01			.010		.45
both as diss. blebs and mineralized veins. Py occurs with the cp at an ave. cp/py ratio of about 2/1, in some	65 mod		580		0 to 40	1/16 to 1/8 x n	qt3, chl, cp, py, (mo)	1.0			577	100	63	82130	.39	<.01			.026		.55
zones, however, only cp is observed. Core is mod. vuggy and has a "sintery" appearance. Sauceritization is	60 mod		590		0 to 30	1/16 to 1/8 x n	qt3, chl, cp, py, mo	.5			587	100	47	82131	.42	<.01			.009		.35
reduced or possibly masked by chl altn throughout zone.	60 mod		600		30 to 40	1" — qt3, mo 1/16 to 1/4 x n — qt3 - chl - cp - py - mo		.5			597	99	33	82132	.63	<.01			.040		.60
mod to str chl "darkened" altn 558' to 619'	60 wk		610		5 to 30	1/16 to 1/4" x n	qt3 - chl - cp - ((bo)) - py - (mo)	.5			607	100	70	82133	.38	<.01			.010		.75
	65 mod		620		5 to 30	1/16 to 1/4" x n	qt3 - chl - cp - ((bo)) - py - mo	.5			617	98	27	82134	.74	<.01			.032		.55

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Alin	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
wk chl "darkened" altn 619' to 659'	60 wk		630		0-20	1/8 to 1/4 x n	ep patches; qt3-chl-cp-py-(mo)	1.0		n = numerous	627	100	43	82135	.51	<.01			.006		.50
	60 wk		640		0-30	1/8 to 1/2 x n	qt3-chl-cp-py-(mo)	1.0			637	99	40	82136	.43	<.01			.017		.55
	60 wk		650		0-20	1/8 to 1/4 x n	qt3-chl-cp-py-mo	1.0			647	99	37	82137	.56	<.01			.006		.70
wk to mod chl "darkened" altn 659' to 690'	65 wk		660		5-35	1/8 to 1/4 x n	qt3-chl-cp-py-(mo)	.5		brx, (hem)	657	100	40	82138	.38	<.01			.009		.40
	60 wk to ND		670		5-30	1/16 to 1/8 x n	qt3-chl-cp-py-(mo); cp "patches"	.5			667	97	40	82139	.23	<.01			.002		.30
	65 wk		680		10; 5-30	1"; 1/16 to 1/8 x n	brx-hem; vuggy qt3-chl; qt3-chl-cp-py-(mo)	.5			677	98	73	82140	.21	<.01			.003		.20

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Altn	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	60 wk		690		0-30	1/16 to 1/8 xn	qtz-chl-cp-py-(mo)	.5			687	98	60	82141	.35	<.01			.002		.40
Leucocratic wk chl "darkened" altn 690' to 702'	60 wk		700		5-30	1/16 to 1/8 xn	qtz-chl-cp-py-(mo)	.5		brx-hem	697	99	30	82142	.16	<.01			.005		.25
wk to mod chl "darkened" altn 702' to 782	55 wk		710		5-30	1/16 to 1/8 xn	qtz-chl-cp-py-mo	.5			707	97	43	82143	.36	<.01			.005		.45
	55 wk		720		5-30	1/16 to 1/4 xn	qtz-chl-cp-py-(mo)	.5			717	100	43	82144	.43	<.01			.005		.80
	55 wk		730		0-40	1/16 to 1/4 xn	qtz-chl, cp-py-mo	.5		brx-hem	727	99	70	82145	.35	<.01			.005		.65
	60 wk		740		30 5-40	2" 1/16 to 1/4 xn	qtz-cp-mo hem qtz-chl-cp-py-(mo)	.5			737	100	57	82146	.66	<.01			.033		.60

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Altn & Type	Rx Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	60 wk		750		0-25	1/16 to 1/4 xn	qt_3-chl-cp-py-mo	.5			747	100	37	82147	.68	.01			.019		2.00
	60 wk to ND		760		5-40	1/16 to 1/4 xn	qt_3-chl-cp-py-(mo)	.5		brx	757	99	63	82148	.42	.01			.030		.80
	ND to 55 WR		770		5-40	1/16 to 1/8 xn	qt_3-chl-cp-py-(mo) hem staining	.5			767	100	87	82149	.43	.01			.004		.30
	wk 50		780		30 ? 10-20	3" 1/2 to 1" 1/8 x 4	qt_3-carb qt_3-carb-(ep) qt_3-chl-cp-py	<.5			777	100	60	82150	.18	<.01			.003		.25
	ND		790		? 0-20 5-20	8" 1/8" x 4 1/2 to 1/4 x 3	massive "ep" qt_3-chl-py-cp-(mo) qt_3-chl-cp-py-(mo)	<.5			787	100	67	82151	.19	<.01			.002		.20
wk chl "darkened" altn 787' to 800'	wk 55		800		10-20 0-30	1/8 to 1/4 x 5 1/4 - 1/8 x 3	qt_3-chl-cp-py-(mo) qt_3-chl-cp-py-(mo)	<.5			797	100	80	82152	.67	.01			.014		.35

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Altn	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
wk to mod Chl "darkened altn. 803' to	ND to wk 60		810		20-30 10-90	1/8" x 4 1/8" to 1/4" x n	qtz-chl-cp-py-mo qtz-chl-cp-(py)-mo	<.5			807	100	90	82153	.58	.01			.021		.80
	wk 60		820	?	10-45 10"	1/8" to 1/4" x n 10"	qtz-chl-cp-(py)-mo qtz-mo-(cp)	<.5			817	99	43	82154	.80	.01			.121		.90
	wk to mod 55		830		10-40	1/8 to 1/2" x n	qtz-chl-cp-(py)-mo	<.5			827	99	77	82155	.42	.01			.011		.75
	mod 55		840		10-35 30 20-90	1/16 to 1/8" x n 2" x 2 1/8 x 4	qtz-chl-cp-(py)-(mo) qtz-carb qtz-chl-carb-cp-py-mo	<.5			837	100	60	82156	.57	.01			.023		.35
slight increase in grain size 3cm to 5cm	wk 60		850		25 5-90	1" 1/16" to 1/8" x n	qtz-mo-cp qtz-chl-(carb)-cp-py-mo	<.5	hem staining		847	99	43	82157	.52	.01			.010		.40
also bit more qtz (may be trans. rock between Tonalite & trans	wk 55		860		5-35	1/16 to 1/8 x n	qtz-chl-cp-(py)-mo	<.5			857	100	40	82158	.39	<.01			.052		.50

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx Type & Attn / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
decrease in mafics to 10 or 15%	wk 55	870	5 to 35	1/16 to 1/8 x n	qtz3 - chl - cp - py - mo	.5			867	99	77	82159	.23	<.01			.011		.40
	wk 55 ?	880	40	1/16 x 3	qtz3 - (carb) - (chl) - (ep) - (py) - (ser) mo	<.5		brx - (qtz)	877	99	30	82160	.58	.01			.007		.20
	mod 50	890	? 5-30	6" 1/16 to 1/8 x n	massive ep qtz3 - chl - cp - py - mo	.5			887	98	27	82161	.37	<.01			.004		.25
	mod 45	900	0-30	1/8 to 1/4 x n	qtz3 - chl - cp - py - mo	1.0			897	98	37	82162	.58	<.01			.007		.55
	wk to mod 45	910	0-30	1/16 to 1/8 x n	qtz3 - chl - cp - py - mo	.5			907	98	63	82163	.40	<.01			.004		.30
	wk to mod 45	920	5-40	1/16 to 1/8 x n	qtz3 - chl - cp - py - mo	.5			917	99	43	82164	.57	<.01			.014		.35

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ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Rx	Type & Alin	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: OVERBURDEN; LEACH CAP; OXIDE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATE % CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATE % TOTAL Cu GRADE
	mod 45			930	? 5-35	5"	qtz - mo	1.0			927	97	13	82165	.83	.01			.080		.90	
						1/16 to 1/8 x n	qtz-chl-cp-py-mo															
	wk 45			940	5-40	1/8 to 1/4 x n	qtz-chl-cp-py-mo (ser)	.5			937	98	7	82166	1.36	.01			.025		1.00	3005
	wk 45			950	10-45	1/8 to 1/4 x n	qtz-chl-cp-py-mo (ser)	.5			947	98	27	82167	.49	<.01			.015		1.25	
	wk to mod 45			960	5-40	1/16 to 1/4 x n	qtz-chl-cp-py-mo (ser)	.5			957	97	33	82168	.84	.01			.020		.55	
Large qtz veins within qtz-ser alt'n zone 962' to 970'	NO to str 40			970	70°?	4 feet	qtz-mo				967	95	17	82169	.31	.01			.340		.20	
					70°?	3 feet	qtz-ser-(cp)-py-(mo)															
							qtz-mo			END OF HOLE	970	80										

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