DIAMOND DRILL REPORT
on the
SAWMILL MINERAL CLAIM GROUP

Cariboo Mining Division 93B/8E & 8W

(Latitude 52°30', Longitude 122°15')

Owner/Operator: Gibraltar Mines Limited

McLeese Lake, B.C.

Author: M. Rydman October 1996

24569

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GIBRALTAR

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

Author: M. Rydman

Submitted: October 1996

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1. INTRODUCTION

The Sawmill Mineral Claim Group is part of the Gibraltar Mines Limited McLeese Lake property. It lies about 6.5 km south of the Gibraltar Mines plant site, along the southern flank of Granite Mountain. Access is via a network of old logging roads which connect the property to the paved road leading from McLeese Lake to the plant site. The location of the claim group is shown in Figure 1.

The first claims of the Sawmill Group were staked in 1978 to cover a large I.P. anomaly and several older copper prospects. Of the prospects, the most important was the Iron Mountain property on which the first recorded work dates back to 1925. The chief focus of work for Gibraltar Mines was the I.P. anomaly which was located west of Iron Mountain over an area of very limited rock exposure. The anomaly had been outlined in 1978 and was attributed to a graphitic source rather than sulphide mineralization. Diamond drilling in 1979 by Gibraltar Mines revealed that extensive pyrite and chalcopyrite mineralization occurred within the I.P. zone. By 1981, approximately 30 million tons graded at 0.28% total copper and 0.022% molybdenite of open pit inventory had been outlined. More diamond drilling and I.P. surveys followed from 1982 to 1990 but little change was made in the inventory. Most of the above work is covered in Minister of Mines Reports and assessment reports (see Bibliography).

The area covered by this diamond drill program is located approximately 1 km east of the southern tip of Cuisson Lake. Five vertical diamond drill holes totaling 1031.7 m (3385 feet) were completed during the period June 14 to June 22, 1996, by L.D.S. Diamond Drilling Ltd. of Kamloops, B.C. The whole core was assayed except for a representative four-inch segment taken every ten feet which was retained and stored at Gibraltar Mines. Four holes were drilled on the COLE 1 mineral claim and one hole was drilled on the TIM 1 mineral claim.

2. MINERAL CLAIMS

The mineral claims of the Sawmill Mineral Claim Group are shown in Figure 2. Information on these claims is tabulated in Table 1. All of these claims belong to Gibraltar Mines Limited.

NAME	RECORDED DD/MM/YY	TENURE NUMBER	UNITS
AARON 1	26/06/79	204162	1
BARB 1	14/11/79	204217	12
BRENT 1	14/11/79	204218	6
BRUCE 1	29/06/81	204518	12
COLE 1	28/08/78	204116	9
DOUG 1	26/06/79	204160	3

continued on next page . . .

NAME	RECORDED DD/MM/YY	TENURE NUMBER	UNITS
... continued from previous page			
GEOFF 1	29/05/79	204159	9
JANIS 1	14/11/79	204219	3
KATE 1	29/06/81	204516	12
PAUL 1	29/06/81	204519	12
RYAN 1	26/06/79	204161	1
TIM 1	28/08/78	204115	2
WD 1	29/06/81	204517	6
TOTAL NUMBER OF UNITS			88

Table 1
MINERAL CLAIMS

3. TOPOGRAPHY AND GEOLOGY

The Sawmill Mineral Claim Group lies along the southern flank of Granite Mountain and extends to the Beaver Valley Road (see Figure 1). Relief is relatively gentle, with elevations ranging from about 950 m to 1150 m above sea level. Much of the area has been logged during the past thirty years and second growth pine-fir forest is common. Drainage in the area is good, except for the low lying areas in the southeast portion of the claim group.

The Sawmill Mineral Claim Group covers a broad contact zone formed between the Permian Cache Creek Group and the Upper Triassic Granite Mountain Batholith. Within the claim area, the Cache Creek Group consists of volcanic flows, tuffs, breccia and sediments mainly of andesitic to dacitic composition, with minor interbeds of graphitic schist and impure limestone. These rocks have been regionally metamorphosed to the Greenschist Facies and have undergone a much higher grade of metamorphism along the contacts of the Granite Mountain Batholith.

The plutonic rocks underlying the Sawmill Group belong to the Granite Mountain Batholith which 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.

The ore and gangue mineralogy of the Sawmill ore zone is very similar to that of the Gibraltar deposits. Pyrite, chalcopyrite and molybdenite occur in veins and shears accompanied by various combinations and concentrations of quartz, chlorite, carbonate, sericite and epidote. There is, however, one ore type not found in the Gibraltar deposits. This is referred to as a quartz-gypsum zone which is characterized by gypsum veins and often strong chalcopyrite mineralization accompanied by minor bornite. Pyrite is invariably weak or absent, and the zone is interpreted to represent the extreme low sulphide end of the pyrite-chalcopyrite zoning system.

A large pyrite zone has been outlined within the Sawmill ore zone. It covers all rock types but appears strongest along the Cache Creek side of the contact. In general, the pyrite zone occurs above and overlaps into the ore zone. Concentrations above three percent define the limits for the pyrite zone.

The structural controls for the Sawmill ore zone consist of westerly and northwesterly striking shear zones which dip southerly. The overall configuration of rock units and ore grade also suggest that fold structures are present. In general, the ore zone lies along the contact formed between the Mine Phase Tonalite and the older rocks. The ore is not confined to any one rock type but is best developed in the Mine Phase Tonalite and weakest in the Leucocratic Phase. The Sawmill ore zone is cut off towards the northwest by a large fault system which is referred to as the West Boundary Fault. This fault is considered to be a wide north trending system, dipping to the west, with numerous individual zones separating wedges and blocks of displaced rock.

4. DRILL PROGRAM

4.1 Objective

The purpose of the Sawmill drill program was to test the current geological model and to search for new mineralization at depth.

4.2 Discussion

Diamond drilling occurring between 1979 and 1990 confirmed the presence of significant amounts of sulphide copper mineralization in the Sawmill area. Current geological modeling and recent mineral resource development showed that the potential for mineral resource improvement was good. Accordingly, five vertical NQ diamond drill holes totaling 1031.7 m (3385 feet) were drilled in and around the known Sawmill ore zone (see Figure 3) to test the current geological model and search for additional ore along the down dip extension of the system.

4.3 Results

The main rock type intersected throughout all of the drill holes was Border Phase Diorite. Metavolcanics of the Cache Creek Group occurred as intersections varying in lengths between 3 m and 23 m in holes 96-12, 96-13 and 96-15. There were two holes that encountered Mine Phase Tonalite with consistent ore-grade. Hole 96-14 ended with 13 m of tonalite and 96-16 finished the hole with 63 m of Mine Phase Tonalite. Very narrow intersections of the Leucocratic Phase were encountered in most holes except for 96-14 which contained two intervals with lengths of 25 m and 27 m.

Drill hole 96-12 was generally a low-grade hole with a weak pyrite zone (~2% py) between 67 m and 137 m.

Drill hole 96-13 encountered a high-grade zone between 107 m and 186 m which overlaps the bottom of a strong pyrite zone (>3% py) occurring near the top of the hole between 40 m and 134 m.

Drill hole 96-14 intersected a weak pyrite zone directly below the overburden to 55 m and a deep high-grade zone occurring between 110 m and 183 m. A narrow zone of high level ore-grade material occurring between 52 m and 67 m is associated with the pyrite zone.

Drill hole 96-15 consists of a high-grade zone at surface to a depth of 58 m with an associated weak pyrite zone. Intermittent ore grade intervals occur to a depth of 100 m.

Drill hole 96-16 is generally low in pyrite and consists of an upper high-grade zone, 12 m to 40 m, and a deep high-grade zone for the last 72 m of the hole.

A summary of drill hole results is given in Table 2. Detailed data can be found in Appendix B - Drill Logs.

		BEST CONSECUTIVE 55 m INTERSECTION				
DDH	LENGTH (m)	FROM - TO (m)	TCu (%)	MoS_2 (%)	Ag (oz/ton)	MINERALIZATION
96-12	215.5	94.5 - 149.5	0.16	0.010	0.037	py-cp-Mo-mag
96-13	215.5	131.0 - 186.0	0.27	0.016	0.045	py-cp-Mo-mag
96-14	215.5	116.0 - 171.0	0.28	0.017	0.030	py-cp-Mo-mag
96-15	169.8	12.8 - 67.8	0.32	0.008	0.048	py-cp-(Mo)-(cc)
96-16	215.5	160.5 - 215.5	0.27	0.019	0.034	py-cp-Mo-mag

TCu = total copper py = pyrite cp = chalcopyrite Mo = molybdenite
mag = magnetite cc = chalcocite ( ) = minor amount

Table 2
SUMMARY OF DRILL HOLE RESULTS

4.4 Interpretation

All five of the drill holes confirmed the presence of the Sawmill mineralized system and further enhanced the geological model. Holes 96-13, 96-14 and 96-16 encountered deeper mineralization along the down dip extension of the system. The grade of this deeper mineralization is generally weaker than the mineralization found at higher levels.

5. STATEMENT OF COSTS

1996 Drilling on the Sawmill Mineral Claim Group

Diamond Drilling Costs		
L.D.S. Diamond Drilling Ltd. of Kamloops, B.C.		
Contracted Cost = $43,275.21		**$43,275.21**
Supplies		
Sample Bags 350 @ $0.27/bag =	94.50	
Misc. (flagging, topo thread, etc.) =	25.00	
Total Supplies	$119.50	**$ 119.50**
Vehicle Costs		
3/4 ton 4×4 truck rented from		
Lake City Ford Ltd. of Williams Lake, B.C.		
$1095.00/month @ 0.5 months = $547.50		**$ 547.50**
Sample Preparation and Assay Costs		
Gibraltar Mines Laboratory (5 assays per sample)		
319 samples @ $24.50/sample = $7,815.50		**$ 7,815.50**
Personnel Costs		
Supervision		
G. Barker 30 hrs. @ $41.26/hr. = $1,237.80		
Field Work, Core Logging and Report Preparation		
M. Rydman 150 hrs. @ $29.60/hr. = $4,440.00		
Core Logging		
D. Poon 100 hrs. @ $27.26/hr. = $2,726.00		
Total Personnel Costs	$8,403.80	**$ 8,403.80**
Total Cost for 1996		**$60,161.51**

6. CONCLUSION

The information received from the five diamond drill holes on the Sawmill Mineral Claim Group enhanced the geological model and verified the down dip extension of the Sawmill mineralized zone. The high level ore found in holes 96-14, 96-15 and 96-16 could possibly increase the ore reserves, however the deeper mineralization encountered may not be economical due to a higher strip ratio. Further delineation drilling on the Sawmill ore zone is required to properly determine the extent and economic viability of this deposit.

Murray Rydman

M. Rydman
Exploration Geologist
GIBRALTAR MINES LIMITED

7. BIBLIOGRAPHY

1. B.C. Minister of Mines Annual Report
   - 1925, pp. 156
   - 1956, pp. 33
   - 1957, pp. 16
   - 1972, pp. 135

2. Bysouth, G. D., Diamond Drill Report on the Cole Claim, August, 1979.

3. Bysouth, G. D., Diamond Drill Report on the Cole Claim, April, 1980.

4. Bysouth, G. D., Diamond Drill Report on the Ross Group, November, 1980.

5. Walcott and Associates Limited, A Report on an Induced Polarization Survey, Sawmill Claims, February, 1982.

6. Bysouth, G. D., Diamond Drill Report on the Sawmill Zone, February, 1987.

7. Bysouth, G. D., Diamond Drill Report on the Sawmill Zone, November, 1990.

8. LIST OF FIGURES

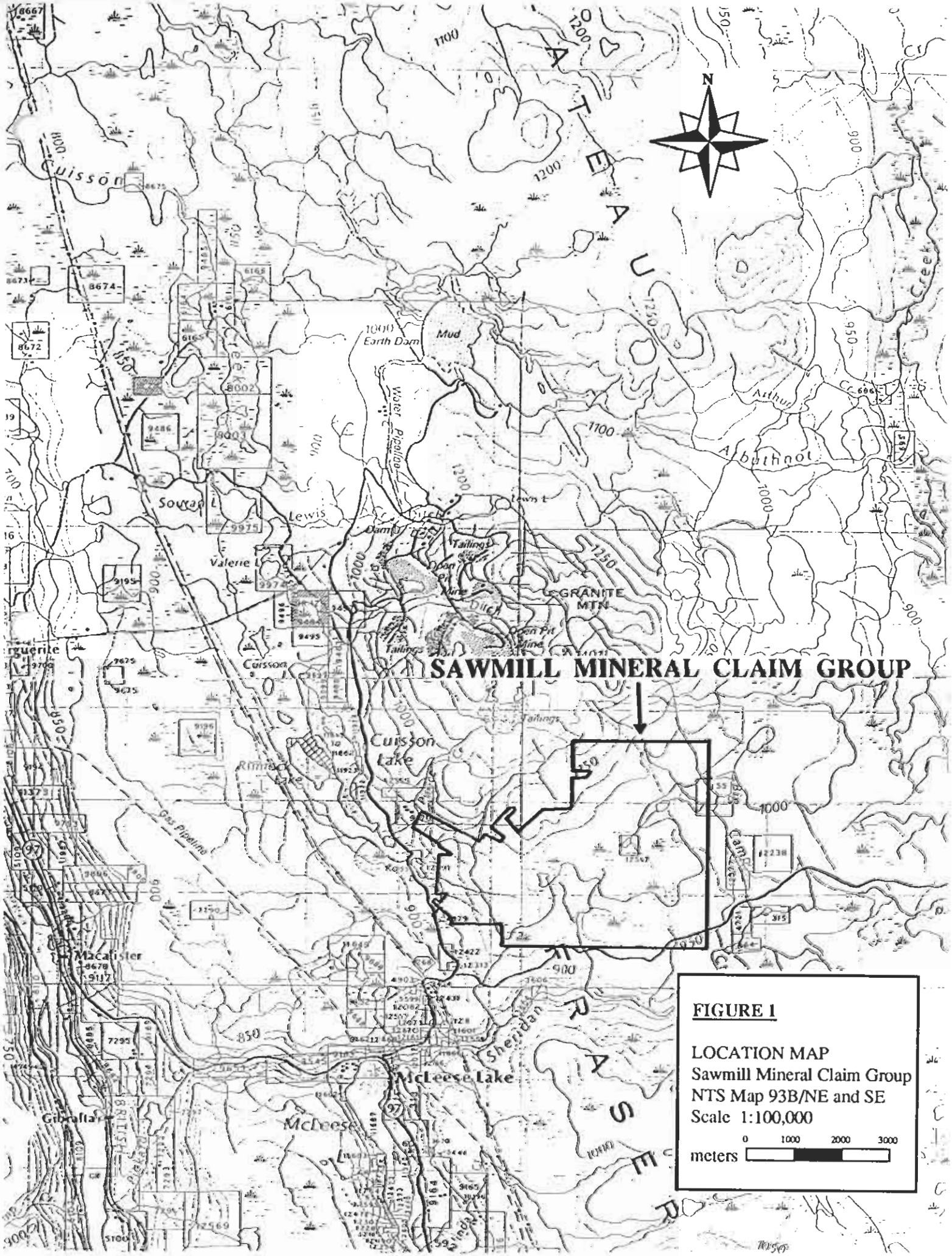


FIGURE 1

LOCATION MAP
Sawmill Mineral Claim Group
NTS Map 93B/NE and SE
Scale 1:100,000

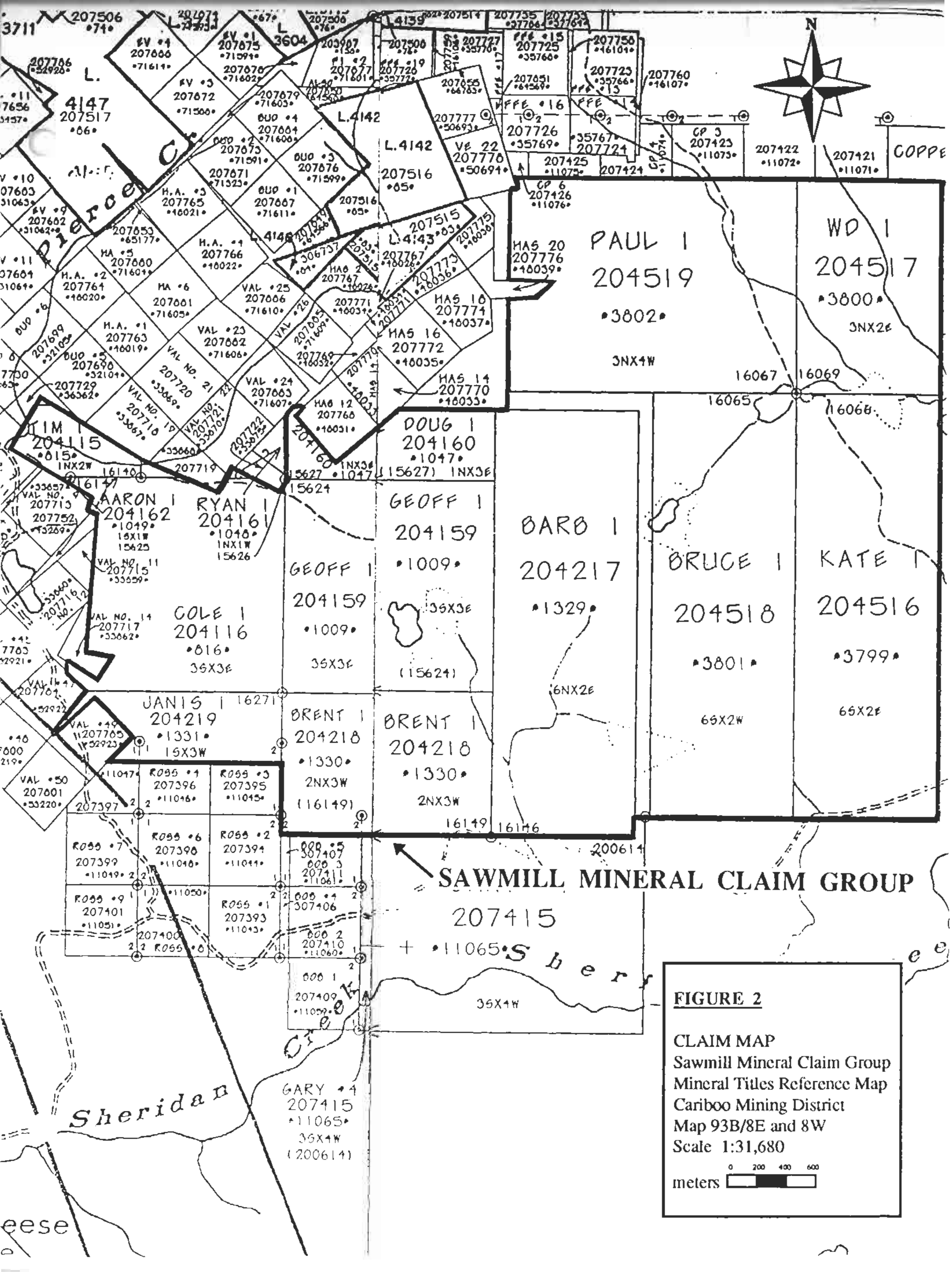
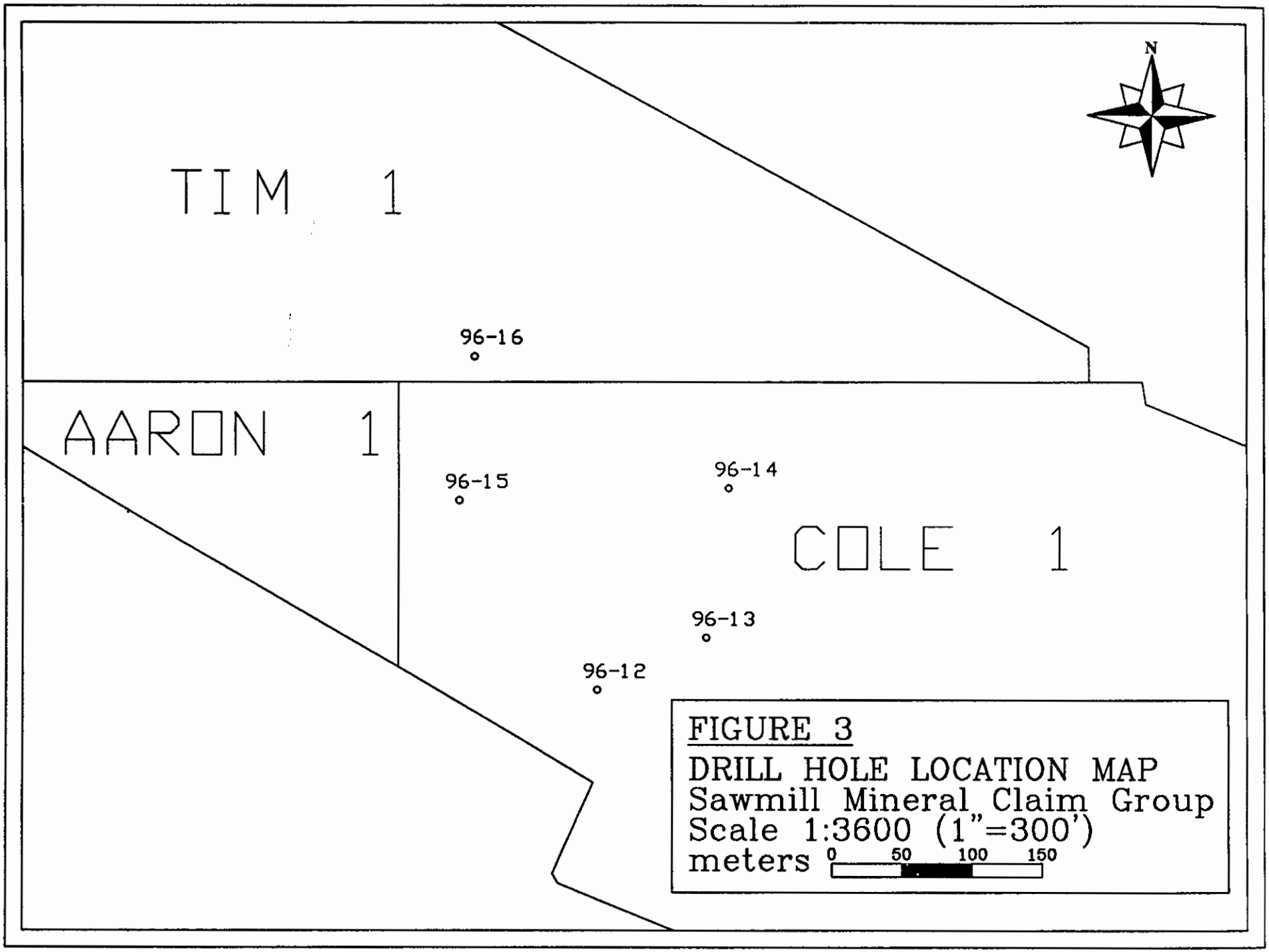


FIGURE 2

CLAIM MAP
Sawmill Mineral Claim Group
Mineral Titles Reference Map
Cariboo Mining District
Map 93B/8E and 8W
Scale 1:31,680


N
TIM 1
96-16
AARON 1
96-15
96-14
COLE 1
96-13
96-12
FIGURE 3
DRILL HOLE LOCATION MAP
Sawmill Mineral Claim Group
Scale 1:3600 (1"=300')
meters 0 50 100 150

APPENDIX A : STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS - Murray Rydman

I, Murray Rydman, of Gibraltar Mines Limited, 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 participated in the field work and aided in the interpretation of the results.
- I personally logged the core of two of the diamond drill holes.

Murray Rydman

Murray Rydman, B.Sc.

APPENDIX B : DRILL LOGS

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 96-12 Page No. 1 of 12

LOCATION: Lawsmill Area	BEARING: —	LATITUDE (N): 32 406.611	CORE SIZE: NQ
LOGGED BY: Dick Penn	DATE COLLARED: June 14, 1996	LENGTH: 707'	LONGITUDE (E): 49 052.446
SCALE OF LOG: 1" = 10'	DATE: July 3, 1996	DATE COMPLETED: June 16, 1996	DIP: -90°
ELEVATION: 2972.613	REMARKS:		

ROCK TYPES and ALTERATION SYMBOLS

- B — BORDER PHASE DIORITE
- X — QTZ VEIN
- CC — CACHE CREEK META-VOLCANIC
- LP — LEUCOCRATIC PHASE

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

badly broken rock	altn = alteration	cp = chalcopyrite	mag = magnetite	qtz = quartz
fault gouge	az = azurite	cup = cuprite	mal = malachite	rx = rock
↑ increase	bo = bornite	diss = disseminated	MnO_2 = pyrolusite	saus = saussurite
↓ decrease	brx = broken rock	ep = epidote	Mo = molybdenite	ser = sericite
( ) minor amount	bx = breccia	gg = gouge	mod = moderate	sph = sphalerite
(( )) very minor amount	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
LEACH CAP	—	—
LEACHABLE OX.	—	—
LIM. ZONE	67'	67'
SUPERGENE	—	—

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION Decreasing Order of Abundance →	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
							OVB ESTIMATE 60' CASING TO 65'											
BORDER PHASE DIORITE 65' to 77' Chl (30-40%), plag (45%), qtz (5-15%) - the chl varies in content and	ND	70	40° 40° 90°	1/8" hrln x 2 hrln x 2	qtz-chl-py-lim-(cp) ep-py qtz-chl-py-cp-Mo	<.5	- fine grained cp + py and sometimes cryptocrystalline Mo can be seen.	67	98	27	87681	.05	<.01		2.00	<.001	.021	.10
speckles a tight network of plag + qtz. The plag is strongly saussuritized. CACHE CREEK	ND	80	40° 40° 40° to 50° 40°	hrln x 4 hrln x 12 1/8" to 1/4" x 3 1"	qtz-chl-py-Mo-cp qtz-chl-py-((cp)) ep-qtz-chl-carb-(py)-(cp) qtz-carb-chl-(py)-(cp)	0.7		77	96	33	87682	.04	<.01		2.32	<.001	.032	.10
META-VOLCANICS 77' to 118' Chl (50-75%), ep (25-35%), qtz (5-10%) - sharp contact between the Border Phase Diorite and the Meta-Volcanic. - rock is quite melanocratic with epidote as the dominant minerals. The cp is seen in vein or	ND	90	40° 40° to 60° 60° to 70° 70°	1/8" x 3 1/8" to 1" x 7 1/4" to 3/4" x 2 1 1/2"	qtz-chl-py-cp ep-qtz-py-carb ep-qtz-carb-(py) qtz-carb-chl	1.0		87	98	57	87683	.10	<.01		3.26	<.001	.044	.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	BOTTOM DEPTHS / REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS$_2$	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
ragged blebs, which appear elongate in some instances. These elongate ep blebs range from hrln to 1" in diameter and the frequency or number of these blebs vary from interval to interval. The chl is the	ND	100	40° 30° 80°	½" to 1½" x2 ½" 2"	qtz-carb-chl-py-(cp) qtz-carb-chl qtz-carb-chl-(py)	0.7		97	99	63	87684	.04	<.01		3.52	<.001	.035	.09
dominant matrix in which the ep blebs reside. No visible plag can be seen which contributes to the overall darkness of the rock. There is some minor carb with the qtz.	ND	110	70° 20° to 40° ?	¼" to 2" x3 ⅛" to ¼" x3 4'	qtz-carb-chl-(py)-(cp) ep-qtz-chl-py brx w/carb-(py)-((cp))	1.0		107 110	95 85	17	87685	.05	<.01		4.00	<.001	.038	.10
BORDER PHASE DIORITE (112' to 227') Chl (50-60%), plag (30-40%), qtz (5-15%) - similar to previous Border Phase Diorite except for chl ↑ and plag ↓.	ND	120	70° 20° 30° 40°	½" ¾" 2½' ½" to 1½" x2	ep-qtz-chl-carb qtz-chl-Mo-py-cp qtz-py-Mo-(cp) qtz-py-Mo-cp	12.0	- large qtz veins from 110' to 130' supply abundant py+cp, along with cryptocrystalline Mo.	117	90	57	87686	.13	<.01		8.90	.200	.050	.45
	ND	130	40° 40° 40°	3" 4½' 2"	qtz-py-Mo-(cp) qtz-py-chl-Mo-(cp) qtz-py-Mo-(cp)	13.0		127	100	83	87687	.17	<.01		8.78	.040	.053	.35
- Some bands and "fingering" of Cache Creek Meta-Volcanics within the Border Phase Diorite. - Some sections of Border Phase Diorite border a Chlorite Darkened Tonalite, in this interval.	ND to 50-70° str	140	50° 40° 40° 40° to 50°	3" 1" ¼" hrln to ¼" x3	qtz-carb-chl-(cp)-(py) qtz-py-chl-(cp) qtz-Mo-chl-(cp)-(py) ep-qtz-chl	1.5		137	100	87	87688	.21	<.01		3.54	.014	.047	.20
	ND to 40° wk	150	50° 40° 80° 90°	2½' hrln x6 ½" 2"	qtz-carb-chl-(cp) qtz-chl-py-(cp) qtz-Mo-carb-(cp) ep-qtz-chl	1.0		147	98	50	87689	.22	<.01		3.00	.013	.041	.16

Bottom depths (blank): ZONE / ESTIMATE / ACTUAL — LEACH CAP, LEACHABLE OX., LIM. ZONE, SUPERGENE

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 96-12

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND	160	50° 70° 30° to 40° 40°	1/4" 5 1/2" hrln x3 hrln x4	ep-qtz-carb-chl-py)-(cp) qtz-(chl)-(carb) qtz-chl-py-(cp) qtz-chl-py-(cp)	0.8		157	100	83	87690	.09	<.01		2.78	.001	.032	.07
	ND to 40° wk	170	40° 40° 80° 30°	1" hrln x2 3 1/2" 1/2"	ep-qtz-chl-(py)-(cp) qtz-chl-py-(cp) qtz-carb-chl qtz-py-carb-((cp))	1.0		167	100	80	87691	.20	<.01		3.55	.003	.047	.07
LEUCOCRATIC PHASES 178' to 180' plag(60-70%), qtz(25-30%), carb(5%), chl(<5%) - a plag + qtz rich porphyry with sharp contact with surrounding Border Phase Diorite. The plag is not saussuritized in the Leucocratic sections, unlike the plag in the	ND	180	60° to 70° 50° to 70° 80° 0°	1/2" to 4" x3 hrln to 1/8" x4 1" 1/2"	ep-qtz-chl-carb qtz-chl-carb-py-cp-Mo qtz-py-carb-(cp) qtz-carb-py-((cp))	3.0		177	100	67	87692	.10	<.01		3.37	.003	.023	.12
Border Phase Diorite. Several 1" to 1' sections of the Leucocratic phase can be seen from 170' to 190'.	ND	190	80° 40° 40° 90° 80°	1" to 3" 2" hrln x3 1/2" 1"	Leucocratic Phase ep-qtz-carb-chl qtz-chl-py qtz-carb-chl-py-cp ep-qtz-carb-chl	<.5	chl ↑	187	100	73	87693	.06	<.01		1.80	<.001	.023	.04
	ND	200	30° to 50° 40° 10°	hrln to 1/8" x3 hrln to 1/8" x3 1/4"	qtz-chl-py-(cp) ep-qtz-chl qtz-chl-py-((cp))	0.6		197	100	90	87694	.10	<.01		2.61	<.001	.029	.06
	ND	210	50° 10° 70° 40°	1/4" 1/2" 1 1/2" to 5" x2 hrln x3	qtz-chl-carb-py-(cp) ep-qtz-chl-(py) ep-qtz-chl qtz-chl-py-(cp)	0.6	ep ↑	207	100	73	87695	.07	<.01		2.92	.009	.021	.05

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 (LEACH CAP / LEACHABLE OX. / LOW. ZONE / SUPERGENE) REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND	220	40° 0° to 20° 70° 0°	1/8" hrln to 1/8"x2 1/4 x2 hrln	qtz-chl-py-(cp) qtz-carb-chl ep-qtz-chl-py qtz-chl-py-((cp))	0.6		217	98	70	87696	.15	<.01		2.80	.002	.028	.05
	ND	230	40° to 70° 30° to 40° 30° 70°	1/8" to 1/4"x2 hrln to 1/8"x4 2" 1/4"x2	qtz-chl-py-(cp) qtz-chl-py-cp-Mo qtz-py-chl-(cp) qtz-chl-carb-py-(cp)	2.5	- increase in cp to py ratio	227	100	73	87697	.15	<.01		3.22	.002	.030	.80
CACHE CREEK META-VOLCANICS: 227' to 302' chl(40-60%), ep(30-40%), qtz(5-10%), carb(5%) - similar to previously described but with a significant carb component; some sections of abundant ep that appear like a pseudo-breccia	ND	240	70° 50° 0° 40°	1/4" 1/4" to 1/2"x2 1/2" 2 1/4"	qtz-carb-chl-py qtz-chl-carb-py-(cp) qtz-chl carb-py-(cp) mag-qtz-carb-chl-py-cp	2.5	- large blebs of magnetite in this interval	237	97	87	87698	.12	<.01		3.89	.003	.030	.18
	ND	250	0° 50° 10° 20°	hrln x2 4" 1/8" 1/8"x2	qtz-chl-carb-py-cp qtz-chl-(py)-(Mo)-((cp)) qtz-chl-carb-py-cp qtz-chl-py-(cp)	2.0		247	100	80	87699	.15	<.01		3.47	.003	.029	.25
	ND	260	10° 40° 30° to 40° 70°	1/4" 1" hrln to 1/4"x4 hrln x4	qtz-chl-py-(cp) qtz-chl-py-(cp) qtz-chl-py-cp qtz-chl-py-(cp)	3.5		257	100	77	87700	.20	<.01	Au 4 ppb	4.59	.003	.051	.35
	ND	270	40° 90° 70° to 80° 10°	1/2"x2 3 1/2" 1/8" to 1/4"x4 1/4"	qtz-carb-py-(cp) qtz-carb-chl-(cp) qtz-carb-chl-cp-py qtz-carb-chl-py-((cp))	2.5	carb alt'n ↑	267	100	73	87701	.27	<.01		5.07	.004	.058	.40

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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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND	280	10° 40° 80° 40°	1/8" 1 1/2" 1/4" hrln x 3	qtz-chl-py-cp qtz-carb-(py)-(cp) qtz-carb-mag-py-(cp) qtz-chl-py-(cp)	1.0	ep ↑	277	100	67	87702	.14	<.01		3.02	.003	.043	.18
BORDER PHASE QUARTZ DIORITES: 279' to 285' chl(40-50%), plag(30-35%), qtz(5-10%), carb(5%) - similar to previously described sections but with less plag	ND	290	10° 20° 30° 40° 0°	1/8" 1/2" hrln x 2 1 1/2" 1/4"	qtz-chl-carb-py-cp qtz-chl-py-(cp) qtz-chl-py-(cp) qtz-chl-py-((cp)) qtz-py-chl-carb-(cp)	2.5		287	98	53	87703	.19	<.01		4.38	.004	.044	.26
	ND	300	40° 0° 40° 40°	1/4" 1/4" 1/4" 1/8" to 1/4" x 2	qtz-chl-py-cp qtz-chl-py-(cp) qtz-cp-py-chl qtz-chl-py-cp	2.0		297	98	53	87704	.23	<.01		6.33	.004	.058	.37
BORDER PHASE QUARTZ DIORITE: 302' to 337' chl(35-45%), plag(30-40%), qtz(5-15%), carb(5%) - mineralogically similar to previously described sections but the plag is not saussuritized at all	ND	310	40° to 50° 40° 40° 0° to 20°	1/8" x 3 hrln to 1/8" x 5 1/4" x 2 hrln x 4	qtz-chl-py-carb-(cp) qtz-chl-py-(cp) qtz-chl-py-(cp) qtz-chl-py-cp	2.0		307	99	67	87705	.11	<.01		3.70	.003	.034	.33
	ND	320	40° 30° to 40° 10° 10° to 20°	1/8" x 2 1/8" to 1/4" x 2 hrln x 2 hrln x 2	qtz-chl-py-cp qtz-chl-carb-py-cp qtz-chl-py qtz-chl-carb-py-(cp)	1.5		317	99	57	87706	.13	<.01		3.42	.006	.040	.24
	ND	330	0° to 20° 40° 0° 30° to 50°	hrln to 1/8" x 2 1/8" x 2 1/2" 1/8" x 2	qtz-carb-mag-py qtz-chl-carb-py-(cp) qtz-carb-chl qtz-chl-py-(cp)	1.5		327	95	33	87707	.14	<.01		4.00	.006	.037	.15

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
LEACH CAP		
LEACHABLE OX.		
LIM. ZONE		
SUPERGENE		

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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	BOTTOM DEPTHS / REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND	340	0° 0° to 10° 30° to 40° 0°	hrln x2 hrln to 1/8" x2 hrln to 1/8" x3 hrln x2	qtz-chl-cp-py qtz-chl-py-(cp) qtz-chl-py-(cp) qtz-chl-py	1.0		337	98	63	27708	.14	<.01		3.25	.008	.041	.14
CACHE CREEK META-VOLCANICS: 337 to 412' chl(50-60%), ep(25-35%), qtz(5-10%) -similar to previously described sections of the Cache Creek Meta-Volcanics	ND	350	30° to 40° 40° 40° 30° to 40°	1/2" x2 2" 1/8" to 1/4" x2 hrln x3	qtz-chl-py-carb-(cp) qtz-py-carb-chl-((cp)) qtz-chl-py-cp qtz-chl-py-(cp)	2.5		347	100	73	27709	.12	<.01		3.55	.018	.033	.15
	ND	360	30° 40° 40° 0° to 20°	hrln x2 1/4" 1/8" x2 hrln x3	qtz-chl-py-(cp) qtz-chl-py-((cp)) qtz-carb-py-chl-(cp) qtz-chl-py-cp	1.0		357	100	70	87710	.12	<.01		2.83	.010	.034	.10
	ND	370	40° 40° 40° 10° to 20°	hrln x4 1/8" x 4" hrln x2	qtz-chl-py-(cp) qtz-chl-py-cp Leucocratic Phase qtz-chl-py-carb-cp	1.0		367	98	60	87711	.10	<.01		2.96	.011	.026	.22
	ND	380	40° 40° 20° 80°	hrln to 1/8" x2 1/4" 1/8" x2 2 1/2"	qtz-chl-py-(cp) qtz-mag-chl qtz-chl-py-(cp) Tonalite (non-saussuritized)	1.0		377	100	73	87712	.10	.01		3.29	.011	.025	.15
	ND	390	30° to 40° 40° 30° to 40° 0°	hrln to 1/8" x2 hrln x3 hrln to 1/8" x5 1/4"	qtz-chl-py-(cp) qtz-chl-py-((cp)) qtz-chl-py-(cp) qtz-chl-py-(cp)	2.0		387	100	87	87713	.16	.01		4.03	.005	.034	.26

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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	BOTTOM DEPTHS / REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND	400	40° 0° 40° 40° 40°	1/8"x2 1/8" 1/8"x2 1/2" 3"	qtz-chl-py-(cp) qtz-chl-py-(cp) qtz-chl-py-cp qtz-carb-chl Border Phase Quartz Diorite	1.0		397	00	93	87714	.15	.01		3.00	.007	.032	.15
	ND to 80° wk	410	70° 40° 40° 70°	1/4" hrln x3 1/8" to 1/4"x2 1/4" to 1/2"x2	qtz-py-chl-(cp) qtz-chl-py-((cp)) qtz-chl-py-(cp) qtz-carb-chl-py-(cp)	1.5		407	100	47	87715	.15	.01		4.08	.010	.040	.13
BORDER PHASE QUARTZ DIORITE: 412' to 707' chl(40-50%), plag(40-60%), qtz(10-15%), carb(10%) - section is unlike other Border Phase Quartz Diorites in which plag content is significantly higher in this section. There is also strong	ND to 80° str	420	40° 90° 80°	hrln x3 6" to 9" x2 hrln to 1/8"x10	qtz-carb-chl-py-(cp) Leucocratic Phase qtz-plag-chl-py-((cp))	2.5	plag ↑↑	417	100	73	87716	.11	.01		5.18	.004	.049	.12
foliation of the chl into thin stringers.	80-90° str	430	90° 80° 80° 50°	1/4"x2 hrln to 1/4"x5 1/8" to 1/4"x5 1/2"	qtz-carb-py-(cp) qtz-chl-py-(cp) qtz-carb-py-(cp) qtz-chl-carb-py-(cp)	2.0		427	100	83	87717	.15	.01		5.47	.005	.050	.15
	ND to 80° str	440	60° to 70° 60° 70° 60° to 70° 40°	hrln to 1/8"x3 hrln to 1/8"x4 1/2" 1/8"x2 1/8"	qtz-carb-py-Mo-(cp) qtz-carb-py-(cp) qtz-chl-carb-py-(cp) qtz-chl-carb-mag-(cp)-(py) qtz-carb-py-cp	2.0		437	100	80	87718	.21	.01		5.21	.013	.053	.24
	ND to 80° md	450	40° to 60° 70° to 80° 40° 0°	1/8" to 1/4"x2 1/8" to 1/4"x3 1/4" 1/8"	qtz-carb-py-(cp) qtz-chl-carb-(cp)-(py) qtz-mag-carb-chl-cp qtz-carb-mag-chl-(py)-(cp)	1.5	Chl ↑ mag ↑	447	97	40	87719	.24	.01		3.72	.017	.055	.17

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 (LEACH CAP / LEACHABLE OX. / LIM. ZONE / SUPERGENE: ESTIMATE, ACTUAL) / REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND to 90° mod	460	90° 40° 50° 30° 40°	1/4" 1/8" x 2 1/4" hrln x 3 1/4"	qtz-chl-carb qtz-chl-mag-py-(cp) qtz-mag-chl-py-(cp) qtz-chl-py-(cp) qtz-py-chl-((cp))	0.7		457	98	77	87720	.20	.01	Au 1 ppb	2.42	.021	.032	.08
	ND to 90° mod	Cl/T 470	40° 90° 90°	hrln to 1/8" x 2 hrln to 1/4" x 2 1/4"	qtz-chl-py-(cp) qtz mag-carb ep-qtz-chl-carb	<.5	plag ↑ py+cp ↓↓	467	100	53	87721	.14	.01		1.65	.005	.025	.03
	ND to 90° mod	480	30° 40° 20°	1/2" 3/4" hrln	qtz-carb-mag qtz-chl-ep-(py)-(cp) ep-qtz-(py)-(cp)	<.5		477	95	50	87722	.15	.01		1.62	.014	.021	.02
	ND to 80°-90° mod	490	70° ? 90°	hrln to 1/8" x 2 5' 1/8"	qtz-chl-carb-py-(cp) brx + gg w/ carb-(py)-((cp)) qtz-chl-py Chl ↑	<.5	- fault zone from 482' to 516', with several sections of brx + minor gg. There is no hem staining visible in this zone.	487	80	13	87723	.31	.01		2.57	.014	.041	.03
	ND to 80° wk	500	60° 10° 60° 70° to 90°	hrln x 2 1/2" 1/4" 1/4" x 2	qtz-chl-mag ep-qtz-carb qtz-ep-chl-(py)-(cp) ep-qtz-carb	<.5	- mag is magnetic only when powdered in this interval. ep+plag ↑	497	90	13	87724	.09	.01		1.39	.004	.025	.02
	ND	510	? 90° 90°	4' 1/2" 3/4" x 3	brx w/ carb-((py))-((cp)) qtz-chl-carb qtz-carb-mag	<.5	- poor core recovery for the interval	507	60	20	87725	.14	.01		2.20	.006	.028	.02

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND	520	20° ? 70° 40°	1/8" 4' 1/8" hrln x 2	qtz-chl-py-(cp) brx w/carb-(py) qtz-chl-carb-py qtz-chl-carb-py-cp	0.6		517	90	30	87726	.08	<.01		1.30	.007	.022	.03
	ND	530	20° 40° 40° to 50° 40° 10°	1/4" hrlnx2 1/4"x2 1/4" to 1/2"x3 1/4"	qtz-carb-py qtz-chl-py-cp qtz-chl-py-((cp)) qtz-mag-chl-py-(cp) qtz-mag-chl-(py)-(cp)	0.7	qtz ↑	527	100	90	87727	.18	<.01		2.05	.021	.033	.08
	ND	540	80° 40° 40° 40°	1/8" 3/4" to 2' x2 1/4" 1/8"	ep-qtz-carb qtz-mag-chl-(cp)-(py) qtz-carb-chl-(cp)-(py) qtz-chl-cp-(py)-(mo)	<.5		537	100	67	87728	.12	<.01		1.85	.011	.027	.11
	ND	550	40° 40° 40° 10°	6" 5" hrlnx2 1/8"	qtz-chl-carb-(mag)-(py) qtz-ep-chl-mag-(py) qtz-carb-chl-(cp) qtz-chl-carb-cp-(py)	<.5	chl ↑	547	99	70	87729	.15	<.01		2.25	.008	.030	.07
	ND to 70° wk	560	10° 0° 80° to 90° 70° to 80°	1/8" 1/8" 1/4" to 1/2"x3 1/4" to 1/2"x2	qtz-chl-mag-(py)-(cp) qtz-carb-chl-((cp)) qtz-carb-chl-py-((cp)) qtz-carb-py-(cp)	0.6	- Vuggy or pitted looking Border Phase Quartz Diorite	557	100	77	87730	.10	<.01		2.19	.004	.030	.08
	ND to 40° mod	570	30° to 40° 40° 40° 30° to 40°	1/8"x2 6" 1" hrlnx3	qtz-mag-carb-chl qtz-(chl) qtz-ep-chl-py-((cp)) qtz-ep-chl-(cp)	<.5		567	97	67	87731	.11	<.01		1.71	.003	.036	.05

Bottom depths:

ZONE	ESTIMATE	ACTUAL
LEACH CAP		
LEACHABLE OX.		
LIM. ZONE		
SUPERGENE		

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 96-12 Page 10 of 12

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
LEACH CAP		
LEACHABLE OX.		
UNL. ZONE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alt. Rx Type Footage Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND to 50° mod	580	40°	hrln x3	gtz-chl-py-(cp)	<.5	epichl↑	577	99	70	87732	.13	<.01		2.10	.006	.033	.07
			10°	1/8"	gtz-carb-(py)													
			45°	1/4" x2	gtz-ep-mag-chl-py-(cp)													
			20°	1/2"	gtz-mag-chl-(cp)													
LEUCOCRATIC PHASE: 588' to 591' plag(45-55%), gtz(20-30%), chl(15-20%) - competant looking section in contrast to the surrounding pitted, carb-rich Border Phase Quartz Diorite.	ND	590	60°	1/4"	gtz-ep-chl-(cp)	2.0		587	97	57	87733	.10	<.01		3.35	.006	.029	.09
			40°	1/4" to 1/2" x2	gtz-chl-py-(cp)													
			70°	1/8"	gtz-chl-(py)-(cp)													
			20°	1 1/2"	gtz-py-chl-(cp)													
			20°	1/2"	gtz-mag-(py)-(cp)													
	ND to 50° wk	600	40°	hrln x2	gtz-chl-ep-py-(cp)-(Mo)	<.5		597	95	63	87734	.21	<.01		2.05	.006	.030	.10
			10°	1/8"	gtz-ep-chl-py-(cp)-(Mo)													
			20°	1/4"	gtz-mag-chl-(cp)													
			10° to 20°	1/8"	gtz-chl-carb-ep-(cp)													
			20°	1/4"	gtz-mag-ep-chl-carb-(cp)													
	ND to 40° mod	610	40°	1/4"	gtz-chl-carb-py-(cp)-(Mo)	<.5		607	99	80	87735	.12	<.01		2.13	.004	.025	.06
			0°	1/4"	gtz-mag-((cp))													
			40°	hrln x2	gtz-chl-mag-(py)-(cp)													
			40°	3/4"	gtz-chl-carb-ep-(py)-(cp)													
	ND to 50° wk	620	20° to 40°	hrln x3	gtz-carb-chl-py-(cp)	<.5	magtt	617	99	80	87736	.22	<.01		2.60	.006	.030	.14
			20° to 40°	1/8" x3	gtz-mag-(py)-(cp)													
			0° to 90°	1/4" to 1/2" x2	gtz-mag-((cp))													
			20°	2"	gtz-mag-chl-carb-(py)-(cp)													
			40°	1"	gtz-mag-(carb)-(py)-((cp))													
	ND to 60° wk	630	30° to 40°	hrln x3	gtz-chl-mag-(cp)	0.6	epl	627	100	77	87737	.19	<.01		2.43	.002	.025	.07
			30°	1/8"	gtz-mag-(cp)													
			40°	1/4"	gtz-(cp)-(chl)													
			30° to 40°	1/4" to 1/2" x2	gtz-py-carb													

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

BOTTOM DEPTHS	ZONE / ESTIMATE / ACTUAL
LEACH CAP	
LEACHABLE OX.	
LIM. ZONE	
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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND	640	40° 50° 30° 40°	hrln 1/8" 1/8" 1/8" to 1/4" x2	qtz-chl-carb-py qtz-chl-(cp) qtz-carb-(chl) qtz-carb-chl	<.5	carb ↑ mag ↓	637	97	47	87738	.08	<.01		1.27	.003	.025	.03
	ND	650	40° 40° 40°	1/4" to 1/2" x2 1/8" x2 1/8"	qtz-carb-((cp)) qtz-chl-py-(cp) qtz-mag-carb-(cp)	<.5		647	98	63	87739	.14	<.01		1.74	.007	.026	.04
	ND to 50° mod	660	50° 40° 0° 10°	1/8" 1/2" 1" 1/4"	qtz-chl-py-(cp) qtz-chl-py-((cp)) qtz-mag-chl-(cp) qtz-mag-((cp))	<.5	mag ↑	657	99	50	87740	.12	<.01		2.37	.010	.025	.05
- 1' to 2' sections of core between 660' and 680' appear nearly Tonalitic in assemblage as the qtz component rises	ND to 40° wk	670	40° 40° 40° 40° 10°	1/8" to 1/4" x2 1/8" 1/8" 1/8" 1/2"	qtz-carb-chl qtz-py-chl-((cp)) qtz-carb-chl qtz-chl-py-cp qtz-mag-(py)-((cp))	<.5	qtz ↑ sauss altn ↑	667	95	67	87741	.06	<.01		1.90	.003	.021	.04
	ND to 40° wk	680	10° 0° to 80° 60° 40°	1/2" Stwk 1/4" to 1/2" x2 2"	qtz-mag-(py)-((cp)) qtz-(chl)-((cp)) qtz-carb-chl qtz-chl-py-(cp)	0.6	- brass-like metallic coating from drill rods covering sections of core from 670' to 683'.	677	100	63	87742	.07	<.01		1.71	.003	.019	.04
	ND to 40° mod	690	50° 40° 40° 40°	hrln x2 3" 1/8" 3/8"	qtz-chl-py-cp qtz-py-carb qtz-carb-(py)-(cp) qtz-mag-chl	2.5		687	96	40	87743	.15	<.01		3.92	.008	.035	.05

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Bottom Depths: Zone	Estimate	Actual
Leach Cap		
Leachable Ox.		
Lim. Zone		
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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	40 to 40° wk	700	40° 40° 40°	1/8" x 2 1/8" hrln to 1/8" x 2	qtz-mag-carb-((cp)) qtz-chl-py-cp qtz-chl-py-((cp))	<.5		697	100	63	87744	.24	<.01		2.12	.006	.024	.06
	40 to 40° wk		70° 30° 20°	3/4" 1/4" 1/8"	qtz-carb-chl qtz-py-chl-((cp)) qtz-chl-mag-carb-(py)-(cp)	<.5		707	98	50	87745	.12	<.01		1.83	.008	.016	.03
					707' ☆ E.O.H.													
					Dick Poon													

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 76-12 Page No. 1 of 1

LOCATION SAWMILL AREA | BEARING — | LATITUDE (N) 33 523.523 | CORE SIZE NQ | LOGGED BY Murray Rydman
DATE COLLARED June 16, 1996 | LENGTH 207' | LONGITUDE (E) 42 307.771 | SCALE OF LOG 1" = 10' | DATE July 3, 1996
DATE COMPLETED June 17, 1996 | DIP -90.0° | ELEVATION 2,994.621 | REMARKS

ROCK TYPES and ALTERATION SYMBOLS

- BORDER PHASE DIORITE
- CACHE CREEK META-SEDIMENTS
- BRECCIA or PSEUDO-BRECCIA
- CACHE CREEK GROUP (META-VOLC / META-SEDS?)
- LEUCOCRATIC PHASE
- CACHE CREEK META-VOLCANICS
- QUARTZ CARBONATE SERICITE (CHLORITE) ALT'N PHASE

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

- badly broken rock
- fault gauge
- ↑ 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
LEACH CAP	—	—
LEACHABLE OX.	61'	100'
LIM. ZONE	100'	100'
SUPERGENE	—	—

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Altn / Type / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.O.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
		45					OVB ESTIMATE 45' CASING TO 45'	45										
BORDER PHASE DIORITE (45'–76')	ND	50	? 0–60	6" ½"–¼"	rubble (some diorite) several ep-lim stringers	<0.5	MnO_2-lim-(ank) on fracture surfaces throughout interval	47	90	53	87751	.04	.01		1.56	<.001	.021	<.03
• 10% qtz, 50% plag, 40% chl • str saus alt'n • grain size < 1/16" • chl is evenly distributed, but does occur as veins	ND	60	20 30 80+45+40	1/8" 3/8" ⅛"+⅜"+¼"	← interstitial mal assoc w/ blebs of qtz + ep qtz-MnO_2-ank qtz-MnO_2-(lim) ep-(chl)-(qtz) ← grain size↓, chl↑ (1')	<0.5	MnO_2-lim on fracture surfaces throughout interval ← possibly meta-volcanic	57	95	43	87752	.08	.07		1.59	<.001	.018	.04
	ND	70	50 30x3 ? 50x3	1/8" ⅛"x3 2" ½"+1"+½"	← interstitial mal chl-ep-py ep-chl-(lim) brx-MnO_2-lim qtz-(chl)-(lim)	<0.5	MnO_2-lim on fracture surfaces throughout interval	67	90	43	87753	.06	.05		2.55	<.001	.021	.03
	ND	80	90x2 80x2 70+40	1"+½" ⅔"+½" 1"x2	qtz-(lim)-MnO_2 qtz-(lim) qtz-ep-(carb)	<0.5	lim-(MnO_2) on fracture surfaces throughout interval	77	75	47	87754	.04	.02		2.37	<.001	.024	<.03

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 86-13 Poge 2 of ...

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Type & Alln	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: LEACH CAP; LEACHABLE OX.; LIM. ZONE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
CACHE CREEK META-VOLCANICS (76'–127') • 70% chl, 20% ep, <10% plag, <10% qtz, <10% carb • ep/carb occur as veins or blebs	ND		80		40×3 50+70+90 20×3 30	4"+2"+3" 6"+2"+3" ¼"×3 1"	BORDER PHASE DIORITE v. fine grain diss py in META-VOLCANICS BORDER PHASE DIORITE chl-mag } mal on fractures BORDER PHASE DIORITE	0.5		(lim) on fracture surfaces throughout interval ← diss py	87	100	63	87755	.05	.02		2.74	<.001	.024	.08
• very small grain size, generally not discernable in an aphanitic chl ground mass • core appears dark green in colour • first 15' of this rock unit has narrow bands of the previous	ND 50 wk-mod		100		70×4 ?	¼"×4 1"	← diss py cp-carb brx (disks of rocks) ← diss py	<0.5		(lim) on fracture surfaces throughout interva ↑chl, ↑carb	97	98	57	87756	.09	.03		2.84	<.001	.032	<.03
DIORITE unit	60 wk-mod		110		40 50 50 20×2 60 30+80+90	1" 6" 1" ⅓"+⅛" ⅛" ⅓"×3	cp-chl-(carb) cp-chl-carb-py-((ep)) BORDER PHASE DIORITE qtz-carb-fy-sf py-carb * } diss + veinlets py-cp qtz-carb-ep	0.8		* black mineral assc. with py-carb vein	107	90	73	87757	.10	<.01		3.65	.001	.035	.20
↓ep, ↑chl, ↑carb str blebs ep in chl rich matrix (112'–126')	60-70 str 60-70 wk-mod		120		60-70	¼-¼"	lenses of carb } diss + veinlets py-cp diss + veinlets py (cp) throughout interval	1.0		~6 hardness fine grained lathes 60°-120° cleavage ∴ hornblende	117	90	27	87758	.15	.01		4.01	.004	.050	.12
	ND		130		? 50	2' 1"	} diss + veinlets py (ep) brx-frags w/diss py and sf qtz qtz-ep-pied-chl-cp	1.2			127	98	57	87759	.10	.01		4.01	.002	.044	.14
BORDER PHASE DIORITE (127'–140') • similar to above DIORITE unit • intervals of increased chl content noted	ND		140		? ?	1' 2'	↑chl ↑chl str diss + veinlets py (cp) throughout interval	2.0			137	55	37	87760	.25	<.01	Au 3 ppb	5.10	.002	.074	.28

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. _____ Page ____ of ____

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Type & Attn	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: LEACH CAP; LEACHABLE OX.; UNL. ZONE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
CACHE CREEK META-VOLCANICS (140'– 210') • 65% chl, 25% ep, <10% qtz, <5% carb • ep occurs as large bleos and stringers in a fine grain chl rich matrix	ND		150		? ?	15' 1'	diss + stringers pyrite & fine grained mo throughout breccia → angular casts of DIORITE, LEUCOCRATIC PHASE, EPIDOTE IN A CHL MATRIX brx	3.0		* Mo w/ py-cp stringers	147	95	23	87764	.22	<.01		6.40	.006	.062	.23
	ND		150 / 160				diss and hair stringers of py (cp) throughout interval	1.0			157	95	30	87765	.06	<.01		3.25	<.001	.026	.12
	ND		170		40×3 ? ? 40×6	1/16×3 1' 2½' 1/16×6	py-(cp) LEUCOCRATIC PHASE -uneven contacts -py veins cutting both units brx-(gq)-py-(cp) py-cp-(Mo)	1.8			167	90	37	87763	.12	<.01		3.80	<.001	.041	.18
	ND		180		40-60	hrln-¼"	numerous py-cp-Mo veins some assoc w/ qtz (carb)	3.5		Mo assoc w/ qtz giving qtz a blue-grey colour	177	95	50	87764	.17	<.01		4.86	.002	.036	.25
	ND		190		0-20 20-40	¼" hrln-⅜"	qtz-chl-py-cp-(Mo) numerous qtz-chl-(carb)-py-cp-(Mo) veins	4.5			187	98	57	87765	.16	.01		5.81	.003	.042	.38
	ND		200		30 30 60×6 40	½" ⅜" ⅛"×6 ¼"	qtz-carb-py-(cp)-(Mo) qtz-(carb)-(py) qtz-(carb)-py-(cp) qtz-(carb)-(py)	3.0		numerous hrln py (cp) (Mo) stringers throughout interval	197	95	37	87766	.11	<.01		4.39	.001	.033	.22

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. [illegible] Page 9 of 12

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
large ↓ep after 210'	ND	210	50 30-60 40 70	½" 1/10"-¼" 1" 1'	qtz numerous qtz-(carb)-py-cp-(Mo) veins qtz-py-((cp)) LEUCOCRATIC PHASE	3.0	← str ep alt'n (mag)	207	100	80	87767	.24	<.01		4.34	.002	.049	.35
BORDER PHASE DIORITE (210'–379') • 45% chl, 45% plag, <10% qtz, qtz occuring mainly as veins • grain size generally between 1/20"–1/10"	ND	220	40-3 40-60	½"+⅓"+½" 1/10"-¼"	carb-(qtz) numerous qtz-(carb) veins w/ low angle py-(cp)-(Mo) stringers intersecting	2.5	wk to no saussurite alt'n	217	100	70	87768	.15	<.01		4.10	.001	.035	.15
• degree of saussurite alt'n varies	ND	230	70 10-60	½" hrln-½"	qtz-(carb)-py-(cp) numerous chl-qtz-py-(cp)-(Mo) veins	5.0	wk to no saussurite alt'n	227	98	57	87769	.10	<.01		5.74	.003	.023	.38
	ND	240	20 20-40	⅓" 1/10"-¼"	qtz-(carb) numerous qtz-carb-py-(cp)-(Mo) veins	4.0	wk to no saussurite alt'n	237	98	70	87770	.13	<.01		4.84	.007	.029	.42
	ND	250	40-70 20	1/10"-¼" 2/3"	numerous chl-qtz-carb-py-(cp)-(Mo) veins qtz-(carb)-(py)-(cp)-(Mo)	4.5	wk to mod saussurite alt'n	247	98	53	87771	.15	<.01		4.96	.002	.028	.35
	ND	260	0-40 40-70	¼" 1/10"-⅓"	folded qtz-py vein numerous chl-qtz-py-(cp) veins	4.0	mod saussurite alt'n	257	95	57	87772	.15	<.01		5.92	.004	.025	.20

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 86-13 Page 5 of 12

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: LEACH CAP; LEACHABLE OX.; LIM. ZONE; SUPERGENE	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
							REMARKS											
	ND	270	?	2"	brx w/ py (cp) mins	3.5	mod saussuritic alt'n	287	90	50	87775	.14	<.01		5.72	.003	.022	.15
			20-40	½"-½"	numerous chl-qtz-py-(cp) veins													
	ND	280	0-20	½"	chl-qtz-carb-py	3.0	mod saussuritic alt'n	297	95	53	87774	.11	<.01		5.19	.004	.019	.10
			?	2"	brx - (qtz-carb matrix)													
			0-30	½"-¼"	numerous chl-qtz-carb-py-((cp)) veins													
	ND	290	20	½"	chl-qtz-carb-py	2.5	← ep alt'n	297	98	50	87775	.12	<.01		4.39	.005	.017	.05
			20×6	¼×6	chl-qtz-carb-py-((cp))		mod saussuritic alt'n											
			40	⅔"	qtz-carb-py-(mag)-(cp)													
			30×3	¼"×3	chl-(qtz)-py-((cp))													
			40	¼"	qtz-(carb)-(py)		← ep alt'n											
	ND	300	30×3	¼"×3	chl-qtz-py	2.0	mod saussuritic alt'n * see description @ 108'	297	98	70	87776	.12	<.01		4.19	.003	.020	.05
			0-20	½"	chl-(qtz)-(carb)-py-(cp)-(Mo?)													
			0-30	⅛"-¼"	numerous chl-qtz-carb-py-((cp)) stringers ← Neb of fine grained hornblende →													
	ND	310	30	1"	qtz-carb-py-((Mo))	3.5	wk to mod saus alt'n } ep alt'n	307	100	83	87777	.12	<.01		4.52	.009	.017	.12
			0-20	¼"	several qtz-chl-carb-py-((cp)) veins													
			40×2	¼"×2	qtz-chl-(carb)-py-((cp))													
			40	⅔	qtz-(carb)-py													
			0-30	⅛"-½"	several qtz-chl-carb-py-((cp)) veins													
	ND	320	20+40	⅔"+1"	qtz-carb-py-((cp))	2.5	mod saus/ep alt'n	317	100	73	87778	.11	.01		3.44	.008	.038	.10
			0-30	⅛"-¼"	numerous stringers of qtz-chl-carb-py-(Mo)-((cp))													

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. [illegible] Page 2 of 12

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	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: LEACH CAP; LEACHABLE OX.; UML ZONE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND		330	0-35 x 2 0-40	½ x 2 ½"-½"	qtz-chl-carb-py-(Mo)-(cp) several stringers of qtz-carb-chl-py-(Mo)-(cp)	4.0		mod saus alt'n str chl alt'n	327	100	73	87779	.09	<.01		4.64	.008	.025	.15
	ND		340	40 0-30	⅛" ⅓"-½"	qtz-(carb) several stringers of qtz-chl-carb-py-(cp)	3.0		wk ep alt'n mod saus alt'n	337	95	53	87780	.08	<.01		4.51	.008	.029	.16
	ND		359	20 x 2 20 x 3 70 80 40 x 3	¼" x ⅛" ¼" x 3 ½" ¼" ¼" x ½" x 4"	qtz-carb-chl-py-(cp) chl-qtz-carb-py-(cp) qtz-carb-(py)-(Mo) qtz-carb-chl-hornblende * qtz-chl-py-(cp)	2.5		mod saus/ep alt'n *fine grained hornblende similarly noted @ 108'	347	98	77	87781	.08	.01		3.37	.004	.028	.16
	ND		369	~90 45-60 0-20	1" ⅔" ¼"	interval of diss & veins of py-cp qtz-(carb)-py-(Mo) several qtz-chl-py veins	5.0		wk to mod saus alt'n	357	100	67	87782	.24	<.01		6.37	.003	.058	.22
	ND		370	30 x 2 ? 10-40	½" x 2 2' ¼"-1"	qtz-chl-carb-py-cp brx-gg w/qtz-py vein stwk of qtz-carb-py-cp-Mo	4.5		wk saus alt'n	367	90	47	87783	.35	<.01		6.30	.022	.062	.28
	ND		380	40 ~90 0-40 40	3' 9" ⅛"-¼" ¼"	qtz-chl-carb-py-cp-Mo interval of blebs & veins py-(cp)-(Mo) qtz-carb-chl-py-cp qtz-carb-py-Mo-(cp)	5.5		mod saus alt'n	377	95	60	87784	.16	<.01		4.53	.013	.035	.32

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. _____ Page _____ of _____

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
LEACH CAP		
LEACHABLE OX.		
LIM. ZONE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Type & Alt'n	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
LEUCOCRATIC PHASE (379'- 383½') BORDER PHASE DIORITE (383½'- 388')	ND		380		30-60 30 ? 30×2	hr'r- ¼" ⅓" 3" ½ × ½"	num. py-(cp) veins chl-qtz-(carb)-py-(cp) brx-(gg)-(carb)-py-(cp) chl-qtz-py-((cp))	2.0		380	95	27	87785	.27	<.01	Au 4 ppb	3.09	.012	.038	.16
CACHE CREEK META-VOLCANICS (388'- 408') • a pseudo breccia from 388' to 408' ⇒ ep occurs as angular clasts in a chl rich matrix	ND		400		(0-20)×3 50×6	½ × 3 1/10 × 6	qtz-carb-py-(Mo)-((cp))	6.0		397	70	43	87786	.12	<.01		5.00	.005	.026	.25
	ND		410		40	⅛	qtz-(carb)-(py) diss & hrln-½" stringers of py(cp) throughout interval	2.0		407	95	67	87787	.16	<.01		2.95	.007	.027	.10
BORDER PHASE DIORITE (403'- 707') • wk to no saus alt'n • wk ep alt'n • increase in chl (>50%)	ND		420		20-60	⅛"- ¼"	numerous chl-(qtz)-py-(cp) veins	1.5		417	95	40	87788	.20	<.01		4.04	.006	.046	.10
(423'- 444') dark chl alt'n • str foliation • numerous carb(qtz) veins between foliations • increase in chl (>60%) • no saus alt'n	ND 80 str		430		30 70×2 ? 20 80+50+80	⅛" ¼ + ½" 3" 7" 1"+4"+2"	chl-py qtz-carb-(py)-(cp) gg-carb dark chl alt'n w/numerous bands of carb-(qtz)-(py)-(cp) carb-qtz-(py)-(cp)	2.0		427	98	23	87789	.19	<.01		4.13	.008	.057	.12
• core breaks and forms many disks • gradational contact between this unit and DIORITE	80 str to mod		440		80	10"	dark chl alt'n w/numerous bands of carb-(qtz)-(py)-(cp)	2.5		437	95	10	87790	.36	<.01	Au 3 ppb	4.84	.019	.067	.14

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. ______ Page 3 of ______

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
↓ chl wk to no saus alt'n wk ep alt'n	90 wk ND	450	30×2+80×2 80 40+20 0-20 20×2	1/4"×4 1/4" 1/2"×2 1/4" 1/8"×2	chl-carb-qtz-py-Mo-(cp) dark chl alt'n along cp veins chl-qtz-carb-py-cp-(Mo) chl-(qtz)-(carb)-(py)-(cp) qtz-chl-cp	1.5		447	70	30	87791	.38	<.01		4.63	.086	.056	.18
	ND	460	20 30 20 20 70	1/2" 1/4" 1/4" 1/2" 1/4"	cp-(qtz)-py-(cp) chl-py-(cp) chl-carb-py-cp chl-carb-py-(cp) qtz-(cp)	1.5		457	95	37	87792	.22	<.01		3.25	.036	.043	.25
	ND	470	10-30 0-10 80	1/8"-1/4" 1/4" 1/4"	several chl-carb-py-(cp) veins qtz-(mag)-(py)-(cp) qtz-(carb)-(py)	1.0		467	98	50	87793	.22	<.01		3.20	.011	.045	.08
	ND	480	40 10 40 20-60	1/4" 1/4" 1/2" 1/8"-1/4"	chl-carb-(py) carb-qtz-py qtz-cp chl-(carb)-(qtz)-py-cp veins	2.5		477	92	47	87794	.30	<.01		4.20	.021	.050	.22
	ND	490	20-60 40+30 60+30	1/8"-1/4" 1/8"×2 1/4"×2	chl-carb-qtz-py-(cp) veins chl-qtz-py chl-qtz-(py)	1.5	← ep alt'n	487	98	50	87795	.19	<.01		2.83	.008	.039	.10
↑ chl no saus alt'n	ND	500	70 40 40×2	1/2" 1/4" 1/4"	chl-qtz-(carb)-cp chl-(qtz)-cp-py chl-qtz-cp-py	0.8		497	98	43	87795	.27	<.01		2.60	.016	.043	.12

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. [illegible] Page [illegible] of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	Rx Type & Altn / Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS / REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	60 mod to str	510	40-50 50 40 50x5	1/4"+1/3" 3" 1/4" 1/4"x5	qtz-(carb)-mag-(py)-(cp) qtz-chl-(py)-(cp) qtz-carb-chl-cp-(Mo) qtz-carb-(py)	0.8		507	90	23	87797	.37	<.01		2.80	.012	.036	.10
	60 str	520	? 50	3½" 10'	only represented by 1½' box dark chl alt'n w/ bands of chl/carb/plag/(qtz)	0.5	← possible 2' core lost diss py(cp) along foliations	517	75	27	87798	.23	<.01		4.35	.004	.050	.15
• ↑qtz, ↓carb, ↓chl • Some sections appear to be a qtz/feld porph.	50 str	530	50	10'	decrease in chl, bands of chl/plag/qtz } qtz/feld porph	0.8	diss py-Mo-(cp) along foliations	527	100	80	87799	.15	<.01		3.14	.010	.063	.12
↑chl • (532'-548') appears to be a well foliated chl rich BORDER PHASE DIORITE	50 mod to str	540	50 50x5	10' 1/4"x5	increase in chl @ 532', bands of chl/plag/(carb) qtz-carb-(mag)-(py)	0.8	veins & diss py-(cp) along foliations	537	78	53	87800	.22	<.01	Au 4 ppb	3.32	.007	.043	.08
• mod ep alt'n begins @ 548' occurs as small blebs	50 mod to wk	550	50 50	1/20"-1/2" 8'	numerous qtz-carb veins throughout interval dark chl alt'n, grains stretched to form mod foliation	0.8	diss py(cp) along foliations	547	95	33	87801	.41	<.01		3.64	.009	.048	.06
	ND	560	40 40+50 0-20 40x2	1/4" 1/2"x2 1/4" 1/3"+1/2"	qtz-chl qtz-chl qtz-mag-cp qtz-mag-(py)	<0.5		557	93	63	87802	.27	<.01		2.42	.007	.030	.05

Bottom depths (blank): ZONE / ESTIMATE / ACTUAL — LEACH CAP; LEACHABLE OX.; LIM. ZONE; SUPERGENE

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. [illegible] Page [illegible] of [illegible]

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
ep alt'n disappears @ 565'	ND	570	70x2 40x2 50 40x4 40	¼"x2 ½"x2 2" ½"x4 ½"	qtz-(cp)-(py)-(cp) qtz-(carb)-(cp)-(py) qtz-(carb)-py qtz-(carb)-(cp)-(py) qtz-(carb)-py-cp	1.0	← one vein has mag	567	98	53	[illegible]	.22	<.01		2.85	.006	.037	.08
blotches of ep alt'n 570' - 575'	ND	580	30+20 30 0-40	¼"x2 ⅓" 1/10" - ½"	qtz-(chl)-(cp) carb-qtz-chl-(cp) stwk of qtz-(carb)-(cp)-(py)	0.5		577	98	57	87804	.17	.01		2.09	.008	.034	.06
	ND	590	40+30 40-60	⅓" 1/10" - ½"	qtz-(carb)-mag-(cp) stwk of qtz-(carb)-(mag)-(py)-(cp) veins	0.5		587	95	33	87805	.22	.01	Au 2 ppb	2.82	.009	.044	.05
	ND	600	40x2 40-60 40x4	1/10"x2 1/10" - ½" 1/10"x4	py-(cp) stwk of qtz-(carb)-mag-(py)-(cp) py-cp	0.7		597	95	60	87806	.46	.01		3.18	.011	.049	.08
	ND	610	40-50 40-60 40-50	1/10" - ¼" 1/10" - ½" 1/10" - ½"	stwk of qtz-(carb)-(py)-(mag) stwk of qtz-(carb)-py stwk of qtz-(carb)-py	0.8	← wk ep alt'n	607	98	73	87807	.23	.01		1.93	.004	.033	.04
	ND	620	50x12 50 40 30-50 30x2	1/10" - ½" 1" 2" 1/10" - ½" 6"+3"	stwk of qtz-(carb)-py LEUCOCRATIC PHASE feld porph qtz-chl-(carb) stwk of qtz-(carb)-py-(cp) [one vein had mag] LEUCOCRATIC PHASE feld porph	0.6	← wk ep alt'n	617	98	67	87808	.07	.01		1.37	.001	.018	.05

Bottom depths: ZONE / ESTIMATE / ACTUAL — LEACH CAP, LEACHABLE OX., LIM. ZONE, SUPERGENE (blank)

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 76-13 Page 11 of 12

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
mod cp alt'n 631'-633'	ND	630	30-50 10	1/3-1/2 1/2"	qtz-(carb)-(py)-(mag) stwk qtz-mag	<0.5		627	98	67	[illegible]	.14	.01		2.48	.008	.031	.03
	ND	640	40-60 40 40 40 ~40	1/3-1/2 1" 1/2" 1/2" 3'	stwk of qtz-(carb)-py-(cp) cp-(qtz) qtz-mag qtz-chl-py-cp LEUCOCRATIC PHASE feldspar	0.5		637	99	43	[illegible]	.40	.01	Au 2 ppb	1.94	.005	.045	.30
	ND	650	40+50+20 40-70 40x5	1/4"+1/4"+1" 1/3-1/2" 1/3"x5	qtz-(cp) several qtz-(chl)-(carb) veins qtz-(carb)	<0.5		647	99	70	87811	.10	.01		1.16	.009	.019	.03
	ND to 60 wk	660	0-20 40-60	1/8" 1/3"-1/4"	chl-(carb)-py-cp stringer stwk qtz-(carb)-(chl) ← 2" blebs qtz-carb	0.5		657	95	43	87812	.11	.01		2.01	.005	.030	.08
QUARTZ CARBONATE CHLORITE (SERICITE) ALT'N PHASE (662½'-676')	60 wk 40 str cren	670	60x10 ~40	1/4"x10 7½'	qtz-(carb) qtz-carb-chl-(ser)-(py) w/large qtz-carb veins	0.5	carb is lightly orange coloured	667	95	53	87813	.08	.01		2.37	.005	.036	.03
	40-60 str cren 40 mod	680	40-60	7'	qtz-carb-chl-(ser)-(py)-(cp) ← mag+cp along crenulation ← small blebs carb	0.5		677	95	67	87814	.24	.01		2.60	.006	.063	.06

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 16-13 Page 12 of 12

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND	690	30 40+60+45 50+4	1/2 1/4"+3 1/4+3+1"	py-cp ← two small blebs bornite qtz-(carb) wk diss cp throughout core qtz-(carb)-py-cp-mag	0.5		687	98	57	87815	.18	.01		2.20	.005	.048	.16
mod to str ep alt'n 691-707	ND	700	45+2 50+10 30	1/5+2 1/2+1/4" 1/4"	qtz-(carb)-(py)-(cp) qtz-mag-(cp) qtz-(carb)-cp	<0.5		697	98	47	87816	.08	.01		1.58	.002	.024	.06
	ND	707	30	1/2"	qtz-(carb)-mag	<0.5		707	95	60	87817	.14	.01		1.52	.002	.023	.03
							E.O.H. @ 707' Murray Rydman											

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 96-14 Page No. 1 of 12

LOCATION SAWMILL AREA | BEARING — | LATITUDE (N) 28 281.657 | CORE SIZE NQ | LOGGED BY Murray Ryeman

DATE COLLARED June 17, 1996 | LENGTH 707' | LONGITUDE (E) 49359.328 | SCALE OF LOG 1"=10' | DATE July 16, 1996

DATE COMPLETED June 19, 1996 | DIP 90° | ELEVATION 2956.843 | REMARKS

ROCK TYPES and ALTERATION SYMBOLS

- BORDER PHASE DIORITE
- LEUCOCRATIC PHASE
- CHLORITE DARKENED MINE PHASE TONALITE

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

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Altn & Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
									LEACH CAP — / —												
									LEACHABLE OX. — / —												
									LIN. ZONE 88' / 88'												
									SUPERGENE 80' / 80'												
										OVB ESTIMATE 48' CASING TO 53'											
			53								53										
BORDER PHASE DIORITE (53'–108') • 10% qtz, 45% plag, 45% chl • first 17' the chl content is increased and the grains are contorted • <1/10" grain size • mod saus altn • areas of patchy ep altn ↑chl	ND		60		? 20-50	2' hrln-1/4"	brecciated & pitted qtz-chl-ep-py veins w/ str lim; numerous py stringers	3.5		str lim on fractures throughout interval	57	90	30	87821	.08	<.01		4.85	.004	.037	.03
	ND		70		? 30-50 ? 30-40	3½' hrln-½" 1½' ½"-¼"	brx-gg-hem-py; numerous py stringers; brx→ w/ py stringers; numerous chl-py-(cp) stringers	1.5		← str lim ← wk lim	67	85	27	87822	.14	.01		3.51	.004	.030	.05
	ND		80		30-40	hrln-¼"	numerous qtz-chl-py-(cp) veins	2.5		mod lim on fractures throughout interval ← cc coating py ← cc coating py	77	70	43	87823	.16	.02		3.55	.005	.032	.16

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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	BOTTOM DEPTHS / REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND	90	40x10 30x2 50 30 80 50x8	1/5 x10 1/8 1 1/2" 1/2" 2" 1/2 x8	cr-py-(cp) ← ep alt'n chl-qtz-py-(cp) qtz-(chl)-(cp)-(lim) qtz-chl-py-(cp) qtz-chl-(py)-(cp) chl-py	1.5		87	95	40	87824	.12	.02		2.72	.005	.027	.06
ep alt'n 89'-92'	ND	100	30x5 30 40x2 ? 30x4	hrln x5 1/4 1/8 x2 1 1/2' hrln x4	chl-py qtz-chl-py-cp-Mo qtz-chl-py-(cp) brx-gg-hem-(carb)-(py) chl-py-cp	1.5		97	95	13	87825	.20	.01		3.16	.007	.035	.07
	ND - - - 40 wk	110	50 50x4 0-40 40 70+30	1/2" 1/10 x4 1/3" 1/5 1/2"+1/3"	qtz-chl-carb-py-cp chl-py qtz-chl-carb-py-(cp) numerous qtz-chl-py veins chl-qtz-carb-py	2.0		107	85	27	87826	.15	.01		3.41	.009	.034	.12
(108'-126') • non saussuritized BORDER PHASE DIORITE (grey appearance) • 15% qtz, 55% plag, 25% chl, 5% carb • well foliated plag and chl wrapped around small qtz augers	40 wk to mod	120	40 40	1" hrln-1/5"	qtz-carb-py numerous chl-py-((cp)) veins	2.5		117	90	63	87827	.09	<.01		2.59	.007	.029	.05
• carb occurs as blebs or veins (126'-204') • non saussuritized BORDER PHASE DIORITE (grey appearance)	40 wk	130	40 30x4 70x3	hrln-1/5" 1/8" x4 1/3" x3	numerous chl-py-((cp)) veins chl-(carb)-py-(cp) carb-py	3.0		127	95	33	87828	.11	<.01		3.23	.005	.038	.07
• 10% qtz, 40% plag, 40% chl, 10% carb • not as well foliated as the above interval • carb occurs as blebs or veins • fine to med grained	ND	140	70x6 30-70 70x5 60	1/4 x5 1/2" 1/4' x5 1/2"	carb-py folded qtz-carb-py-(cp) vein carb-qtz carb-(qtz)-((cp))	3.0	hrln py stringers throughout interval	137	90	7	87829	.11	<.01		3.31	.011	.032	.06

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND	150	72×5 ?	1/4"×5 1½'	carb-(qtz)-py hrln-1/10" py veins throughout interval brx→py veins + carb vein	2.0		147	90	23	87830	.09	<.01		3.41	.006	.029	.04
	40-50 wk	160	? 70×5 50×4	3½' 1/4"×5 3"+2"+3"+2"	brx→py veins carb-py-(cp) hrln-1/10" py veins throughout interval intervals ↓chl, ↑plag	3.0		157	95	20	87831	.11	<.01		3.69	.007	.032	.08
	40-50 wk	170	20 ?	1/2" 1'	carb-qtz-py-(cp) blebs of carb and hrln-1/10" py veins throughout interval brx→carb veins + py veins	2.0		167	90	37	87832	.14	<.01		3.50	.010	.033	.06
	40-50 wk	180	40×3 20 40×2	1/2"×3 1/2" 1/2"×2	qtz-carb-chl-py-(cp) qtz-carb-mag? * qtz-(carb)-py-(cp) hrln-1/10" py veins throughout interval	2.0	* black mineral; possibly fine mag mixed with chl; only magnetic when powdered; very hard - possibly hornblende?	177	90	33	87833	.26	.01		3.82	.013	.040	.08
	ND to 50 wk	190	80+20+30 ? 10-40	1/4"+1/4"+1/2" 1' 1/2"	qtz-carb-py brx→py veins qtz-carb-py-(cp)	1.5		187	85	40	87834	.29	.01		3.89	.023	.041	.06
	40 mod	200	50×3	1/2"×3	qtz-carb-py-(cp) hrln-1/10" py veins throughout interval	1.0	lim on fracture surfaces	197	80	17	87835	.40	.01	Au 5 ppb	3.21	.016	.047	.10

BOTTOM DEPTHS: ZONE / ESTIMATE / ACTUAL — LEACH CAP; LEACHABLE OX.; LIM. ZONE; SUPERGENE

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS₂	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
LEUCOCRATIC PHASE (204'–237') • 60% plag, 30% qtz, 5% carb, <5% chl • wk to mod [illegible] • numerous [illegible] veins • [illegible] with indistinct plag grains surrounding	40-50 mod 40-50 mod	210	50 40x? 40-50	[illegible] [illegible] hrln-1/5	qtz-carb-ch-cp carb-qtz-(py) numerous py-cp-Mo veins	0.5		207	95	33	87836	.25	.01		2.05	.023	.033	.12
	40-50 wk	220	20x3 40-50	1/2x3 hrln-1/5	qtz-(carb)-mag-epidote numerous py-cp-Mo veins	0.5	} ↑chl	217	95	47	87837	.23	<.01		1.70	.022	.030	.12
	40 mod to wk	230	30x2 40	1/2+1/2 hrln-1/10	qtz-(carb)-(Mo) numerous py-cp-Mo veins	0.5		227	75	17	87838	.17	<.01		.96	.009	.034	.08
	40-50 wk	240	40	hrln-1/10	numerous py-cp-Mo veins	0.5	} ↑chl	237	80	20	87839	.16	<.01		.81	.024	.029	.15
	40-50 wk	250	40-50	hrln-1/10	numerous py-cp-Mo veins	0.5	} ↑chl, ↑orange carb	247	90	33	87840	.19	<.01		1.61	.022	.054	.18
	50 mod to ND	260	50-60	hrln-1/10	numerous py-cp-Mo veins	0.5		257	90	43	87841	.14	<.01		.77	.022	.020	.12

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 96-14 Page 5 of 12

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
LEACH CAP		
LEACHABLE OX.		
UNL. ZONE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Qtz Type & Alth	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND		270		40	hrln-½"	numerous py-cp-Mo veins	0.5	↑chl	267	95	60	87842	.23	<.01		.93	.022	.024	.05
	ND		280		50	hrln-½"	numerous py-cp-Mo veins	<0.5		277	90	17	87843	.12	<.01		.65	.013	.018	.04
					?	9"	brx		5' of core missing, possibly from here →											
							MISSING CORE		due to large amount of drilling mud present and broken core											
	ND		290		70×3	¼"×3	carb-(qtz)	<0.5		287	45	3	87844	.07	<.01		1.81	.007	.024	.03
BORDER PHASE DIORITE (287'-575') • similar to DIORITE unit starting this hole	ND to 70 mod		300		70	½"-½"	several carb-qtz veins	0.5		297	85	27	87845	.13	<.01		3.53	.012	.033	.05
					70	hrln-½"	numerous py-(cp) veins		↑chl from above LEUCO											
wk ep alt'n 307'-316'	70 mod to ND		310		50×3	¼"×3	carb-qtz-py-(cp)	0.5		307	90	27	87846	.29	<.01		2.80	.011	.038	.04
					40	1"	qtz-(carb)-(py)-(cp)													
					?	1"	brx-hem													
	ND to 30-40 mod		320		? 25	1" ½"	brx-(hem) py	0.8		317	75	33	87847	.22	<.01		2.57	.005	.041	.03
					30-40	4"	dark chl alt'n with numerous carb-qtz-py veins													

ASSAY RESULTS

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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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
wk qz alt'n 321'–380'	ND	330	35 30	[illegible] 1/3 1/2	bx qtz-(carb)-py qtz-chl-py qtz-(py)	0.5		327	90	33	87848	.15	<.01		1.74	.006	.023	<.03
	ND	340	60	1/8–1/2	numerous qtz veins	0.5	wk diss & [illegible] py (cp) throughout interval	337	95	47	87849	.17	<.01		1.68	.009	.023	.03
	ND	350	60 35 [illegible] 60x2	1/8 1/3" 1" 1/4+2"	qtz chl-py brx-gg qtz-(carb)	0.5		347	85	37	87850	.13	<.01		2.24	.005	.028	.03
	ND	360	60 60x6 40	1/2 1/3"x6 1/2	qtz-(carb) qtz-(carb) wk diss py(cp) throughout interval chl-py	<0.5		357	75	49	87851	.13	<.01		2.62	.008	.026	.04
	ND	370	50 60 55	1/3" 1/8" 1/5	chl-py ←diss cp qtz-mag chl-py-cp wk diss py throughout interval	<0.5		367	98	57	87852	.22	<.01		2.48	.009	.025	.03
	ND	380	[illegible] 0-40	1/2" 1/2"	qtz-(carb) qtz-(chl)-(carb)-((cp))	<0.5		377	95	40	87853	.13	<.01		2.04	.004	.017	<.03

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

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BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
LEACH CAP		
LEACHABLE OX.		
UM. ZONE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alfn Type & Structure Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
wk ep alt'n 380'- 400'	50 mod	390	50 40 50×2 50×2 30	hrln-¼" ⅛" ⅛"×2 ⅛"×2 ½"	numerous chl-qtz-py-(cp) veins chl-py-(cp) chl-cp chl-py chl-qtz-py-(cp)	0.5		387		63	87854	.29	<.01		2.86	.011	.029	.10
	50 wk	400	50 30 30×3	⅛" ⅛" ⅛"×3	qtz-(carb)-py ← diss cp chl-py chl-qtz-py	0.5		397	95	37	87855	.30	<.01	Au 9 ppb	2.35	.009	.029	.04
	ND to 50 wk	410	? 40	2" ½"	wk diss py (cp) brx → diss py qtz-(carb) } wk diss+stringer py (cp)	0.5		407	90	37	87856	.30	<.01		1.99	.023	.028	.08
	50 wk	420	50 40 60 40	⅛" ½" ¼" ⅜"	qtz-chl-cp qtz-(carb)-(chl) } hrln veins py-cp qtz-(py)-(cp)-(mag) qtz-(py)	0.5		417	95	43	87857	.35	<.01		2.02	.012	.033	.10
	ND	430	40×4 40 40×3	⅛"×4 ⅛" ⅛"×3	chl-(py) chl-py chl-py-(cp)	0.5		427	90	50	87858	.30	<.01		2.08	.016	.026	.03
	ND to 50 wk	440	60 40×2 60 60×5	¼" ⅛"×2 ¼" ¼"×5	← diss cp qtz-(carb) qtz-(carb)-mag-(py) carb-(qtz) qtz-(carb)-(mag)	0.5	numerous py veinlets	437	99	83	87859	.36	<.01		2.68	.012	.033	.03

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. [illegible] Page 8 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS (ZONE / ESTIMATE / ACTUAL: LEACH CAP, LEACHABLE OX., LIM. ZONE, SUPERGENE) REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
• wk ep alt'n 440'-451'	1.5 to 50 wk	450	50 50×3 50 40 40×2	1/3 1/2×3 1/4 1/2" 1/2"×2	qtz-(carb)-mag-cp qtz-(carb)-(mag)-(py)-(cp) qtz-mag-(cp) qtz-chl-cp-py qtz-chl-cp	<0.5	← hem on fractures	447	90	30	87860	.25	<.01	Au 1 ppb	2.29	.014	.025	.10
• saus alt'n ↓ @ 454' [illegible]	ND	460	? ? 30 40 40	2" 1" 1/8 1/3 1/4	brx-hem brx-hem qtz-carb-py chl-qtz-carb-py carb-(qtz)-(chl)	0.5		457	95	27	87861	.14	<.01		2.19	.020	.023	.03
• carb ↑ 456'-480'	50 str	470	40 30×5 50 50×2	1/4 1/4"×5 1" 1/4×2	qtz-(carb)-py qtz-carb-mag-py carb-qtz qtz-carb-chl-py	0.8	well foliated with cards of carb, minor py(cp) veins	467	95	40	87862	.24	<.01		3.16	.019	.048	.06
	40-50 mod	480	40 30×2+60×2 40×4 40-50	1/2" 1/3+1/8+1/2×2 1/3+1/3+1/4+1/2 hrln-1/8"	mag qtz-carb-py-cp qtz-(carb)-py numerous qtz-carb-py-(cp) veins	1.0	well foliated with bands of carb, minor py(cp) veins	477	98	60	87863	.21	<.01		2.85	.011	.035	.04
• wk saus & wk ep alt'n begins @ 480'	40 wk	490	40 40×3	1/3 1/4+1/3+1/4	qtz-(carb)-mag-py qtz-chl-py-(cp) numerous py-(cp) veinlets	0.7		487	95	50	87864	.32	<.01		2.03	.029	.027	.08
	40 wk	500	40	1/10-1/4	numerous qtz-chl-py-(cp) veins	0.5		497	95	47	87865	.28	<.01	Au 3 ppb	2.21	.020	.025	.06

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 95-14 Page 9 of 12

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: LEACH CAP; LEACHABLE OX.; LIM. ZONE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	~0 wk		510		~0	hrln-¼"	numerous qtz-ch-cp-(cp) veins	0.7			507	95	60	87866	.33	<.01		2.00	.019	.026	.09
	~0 wk		520		50	hrln-⅛"	numerous qtz-ch-cp-(cp) veins ← 3" of str diss py	1.2			517	95	53	87867	.29	<.01		2.23	.018	.026	.14
	40wk to ND		530		40-50	hrln-¼"	numerous qtz-chl-py-(cp) veins	0.5			527	98	60	87868	.31	.01		2.27	.014	.029	.08
	50wk to ND		540		50x3 50x2 70 50	⅛x3 ⅛"-½" 2" 2"	qtz-(carb) qtz-(chl)-(cp) chl-qtz-(py) qtz-(carb)-(chl)-(cp)-(mag)	<0.5		numerous hrln veins py-cp	537	98	63	87869	.21	<.01		2.00	.011	.021	.05
	50 wk		550				diss + hrln veins py-cp-Mo? throughout interval	0.5			547	95	67	87870	.27	<.01	Au 1 ppb	2.67	.020	.028	.10
(549'-561') • well foliated • carb alt'n present • no ep/saus alt'n	50 str		560		50 50 50	2" hrln-⅛" ⅛"	qtz-carb-chl numerous qtz-py-(cp) veins mag	0.8			557	95	57	87871	.20	<.01		2.44	.021	.044	.08

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 86-14 Page 10 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Qz Type & Alln	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: LEACH CAP; LEACHABLE OX.; UNL. ZONE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
561'-568' • wk epi/sau alt'n	50 wk		570		90 50	3" hrln-1/8"	g²z-py numerous g²z-py-(cp) veins	0.5			567	95	33	87873	.15	<.01		2.55	.008	.023	.05
	50 wk 50 mod		580		? 30	1' ½"	bx g²z-chl-carb-py-Mo-cp numerous py-(cp) veins along foliations g²z-(carb)-mag-(py)-(cp)	1.0			577	75	57	87873	.37	<.01		2.97	.039	.057	.07
LEUCOCRATIC PHASE (575'-664½') • indistinct plag grains around g²z augens • minor chl occurring as thin bands between foliations	50 mod		590		~80 ?	1' 4'	g²z-carb-chl } numerous py-cp veins brx-(gg)-(cy) } diss py	0.8			587	90	27	87874	.22	<.01		1.84	.008	.056	.04
• increase in chl 587'-595' approaches BORDER PHASE DIORITE • minor carb	50 mod		600		50	hrln-1/8"	numerous py-(cp) veins along foliations ←wk Mo along foliations	0.8			597	98	43	87875	.36	<.01	Au 6 ppb	1.46	.029	.035	.05
	50 mod		610		? 50	2' hrln-1/8"	brx-gg numerous py-(cp)-(Mo) veins along foliations	0.5			607	95	37	87876	.19	<.01		.84	.012	.022	.10
	40 mod		620		40	hrln-½"	numerous py-(cp)-(Mo) veins along foliations	1.2			617	99	63	87877	.11	<.01		.70	.013	.017	.16

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 96-14 Page 11 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Qz Type & Alln / Footage / Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: LEACH CAP; LEACHABLE OX.; LIM. ZONE; SUPERGENE; REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
crenulated	30-40 mod	630	0-30 30-40	½ hrln-½"	qtz-(carb)-py-cp-Mo numerous py-(cp)-(Mo) veins along foliations	1.0		627	95	53	87878	.11	<.01		.46	.026	.019	.10
	50 mod	640	50	hrln-¼"	numerous Mo-cp-py veins along foliations	0.5		637	95	57	87879	.06	<.01		.40	.016	.015	.08
crenulated	50 mod	650	60 50x2	hrln-⅛" 1"x2	numerous py-Mo-(cp) veins along foliations qtz-chl-carb-(Mo)	0.5		647	95	37	87880	.05	.01		.42	.008	.013	.06
	50-60 mod	660	50-60	hrln-¼"	numerous py-cp-Mo veins along foliations	0.5		657	95	60	87881	.13	<.01		.46	.022	.018	.15
CHLORITE DARKENED MINE PHASE TONALITE (664½' - 707')	50 mod 40 wk	670	50 40	hrln-¼" ⅛"	numerous Mo-cp-py veins along foliations qtz-(carb)-py } str diss and veinlets cp(py)	0.8	← sharp contact 50°	667	100	70	87882	.19	<.01		1.36	.020	.021	.22
• med grained • 35% qtz, 35% chl, 30% plag • wk sauss and ep alt'n	40 wk	680			str diss and veinlets of cp(py) throughout interval	0.5		677	95	67	87883	.32	<.01		2.06	.016	.033	.28

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. [illegible] Page 12 of 12

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS$_2$	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	40 wk	690			str diss and veinlets of py-cp throughout interval	1.5		687	92	63	87884	.41	<.01		2.21	.029	.033	.12
	40 wk	700			str diss and veinlets of py-cp throughout interval	1.0		697	98	63	87885	.26	<.01		1.84	.010	.027	.20
	[illegible] wk	707			mod diss and veinlets of py-cp throughout interval	0.6		707	100	67	87886	.18	<.01		2.32	.013	.028	.15
							E.O.H. @ 707′											
							Murray Rydman											

Bottom depths table (blank): ZONE / ESTIMATE / ACTUAL — LEACH CAP; LEACHABLE OX.; LIM. ZONE; SUPERGENE

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* Note: marker post is located 2' to the east of the actual surveyed hole.

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. [illegible] Page No. 1 of [illegible]

LOCATION [illegible]	BEARING —	LATITUDE (N) 33852.644	CORE SIZE [illegible]	LOGGED BY [illegible]
DATE COLLARED June 1? (19?), 1996	LENGTH 357'	LONGITUDE (E) 48727.261 *	SCALE OF LOG 1" = 10'	DATE July 23?, 1996
DATE COMPLETED June 20, 1996	DIP -90°	ELEVATION 2928.798	REMARKS mod to str py+(cp) zone down to 240'	

ROCK TYPES and ALTERATION SYMBOLS

- BORDER PHASE QUARTZ DIORITE
- CACHE CREEK META-VOLCANICS
- QUARTZ CARBONATE CHLORITE ALTERATION PHASE

MISCELLANEOUS SYMBOLS and ABBREVIATIONS

hole was artesian

- badly broken rock
- fault gauge
- ↑ 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
LEACH CAP	—	—
LEACHABLE OX.	—	—
LIM. ZONE	98'	98'
SUPERGENE	80'	80'

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION Decreasing Order of Abundance	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
							OVB ESTIMATE 37'											
							CASING TO 42'											
BORDER PHASE QUARTZ DIORITE: 42' to 58' Chl (45-55%), plag (35-45%), qtz (5-10%) - Hole starts off with str lim in fractures. The plag is weakly	ND to 40° str	50	40° / ? / 40°	hrln x 10 / 3' / 1/8" x 4	qtz-chl-py-lim / brx w/ lim-py-(cc) / qtz-chl-py-lim-(cp)-(cc)?	3.5	- abundant sulphides, especially py to start the hole. - minor black coating on some py grains most likely cc	47	95	13	87961	.28	.03	Au 5 ppb	6.46	.006	.041	.15
saussuritized and the chl displays a mod-str foliation. The grain size for the Border Phase Quartz Diorite is generally quite fine.	ND to 40° mod	60	40° / 40° / 40°	1" / hrln to 1/4" x 5 / hrln to 1/2" x 7	qtz-py-carb-chl-cc-(cp) / qtz-chl-py-lim-(cc) / qtz-chl-py-lim-(cp)-(cc)	4.0		57	98	30	87962	.28	.04		6.16	.005	.040	.20
CACHE CREEK META-VOLCANICS 58' to 221' Chl (60-70%), ep (30-35%), qtz (5-10%) - sharp contact between the two rock types. The Cache Creek represents a sharp rise in chl and ep in a pseudo-brecciated texture.	ND	70	40° / 40° / 30° / 40°	1 1/2" / 1/8" to 3/4" x 3 / 1/8" / 1/2" x 3	[illegible] / qtz-chl-py-cc / qtz-chl-py-(cp) / qtz-chl-py-lim-(cc)	3.0	ep M?	67	97	50	87963	.28	.05		4.17	.005	.035	.20

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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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND	80	40° 70° 40° 30°-40°	1/4" to 3/4" x4 1/8" x2 1/4" 1/8" to 1/4" x4	qtz-chl-py (cp) qtz-chl-py-(cp) qtz-py-lim-cc qtz-py-chl-(cp)-(cc)	3.5		77	100	113	87964	.40	.02		5.36	.006	.045	.15
BORDER PHASE QUARTZ DIORITES 82' to 207' kf (45-60%), plag (35-40%), qtz (5-10%) - similar to previously described Border Phase Quartz Diorites	ND to Weak	90	40° 40° 40°	1/2" to 1/4" x2 hrlnx3 1/8" x2	qtz-chl-py-lim qtz-chl-py-lim-(cp) qtz-chl-py-lim-cp	2.0	Py↓	87	100	67	87965	.27	.01	Au 4 ppb	3.21	.017	.034	.07
	ND	100	45° ? 0° 30°	1/2" x2 1.5' 1/4" 1/8" x2	qtz-chl-py-lim-(cp) gg+brx w/carb-hem-(py) qtz-chl-py-(cp) qtz-chl-py-(cp)	1.0	possible fault zone from 91' to 107', with some [illegible] [illegible] staining of gg+brx.	97	90	7	87966	.27	.01		3.88	.003	.039	.07
	ND	110	40° 90° ? 0° 40°	1/4" 1 1/2 3' 1/3" 1/2"	qtz-carb-py-(cp) qtz-carb-hem brx+gg w/carb-hem-py-(cp) qtz-chl-py-(cp) qtz-carb-chl-py-(cp)	2.0		107	85	20	87967	.23	<.01		4.39	.007	.041	.14
	ND	120	30° 40° ? 20°	1/4" hrlnx5 2' 1/4	qtz-carb-chl-py-(cp) qtz-chl-py-carb-(cp) brx+gg w/carb-hem qtz-chl-py-carb-(cp)	1.5		117	85	30	87968	.17	<.01		5.01	.004	.037	.10
	ND	130	30° to 40° 30° 0° 20° to 30°	1/2" to 1" x3 .5' 1/4" 1/2" to 1" x4	qtz-py-chl-(cp) qtz-py-chl-carb-(cp) qtz-chl-py-cp qtz-py-chl-carb-cp	5.0	Py↑↑	127	95	30	87969	.32	.01		14.3	.008	.047	.25

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 75-15 Page 3 of 10

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND	140	30° 0° 40° 40° 50°	3/8" 1/2" 1/2"x2 1/8"x3 1/2"-1"x2	qtz-py-chl-carb-(cp) qtz-py-chl-carb-(cp) qtz-chl-py-cp qtz-chl-py-(cp) qtz-py-chl-(cp)	4.0		137	100	83	87970	.26	<.01	Au 4 ppb	12.3	.007	.047	.22
	ND	150	40° 30° 40° 40° 0° to 30°	1" 3/8" 1/2" 1/4" 1/4" to 1/2"x2	qtz-py-carb-chl-(cp) py-qtz-chl-(cp) qtz-py-chl-carb-cp qtz-py-chl-carb-cp qtz-py-chl-cp	7.0	chl ↑	147	100	87	87971	.22	<.01		11.3	.008	.047	.30
	ND	160	? 70° 40° to 50° 30° to 40°	1" hrln x4 1/8"x3 1/4"x2	brx w/ carb-py-(cp) qtz-chl-py-cp qtz-chl-py-cp qtz-py-ep-chl-(cp)	3.0	- some mag interlayered with chl in this interval	157	98	53	87972	.51	.01		9.77	.016	.071	.50
	ND	170	50° 40° 20° 0°	3/4" 1/4" to 1/2"x2 1/4" 1/8"	mag-qtz-chl-py-cp qtz-ep-py-chl-cp qtz-py-chl-(cp) qtz-chl-py-(cp)	3.0		167	100	60	87973	1.19	.01	Au 22 ppb	8.74	.011	.101	.85
CACHE CREEK META-VOLCANICS 177' to 189' chl (60-75%), ep (20-25%), qtz (5-10%) - similar to previously described meta-volcanics	ND	180	40° 70° 40° 70°	hrln x5 6" 1/8"x2 1/2"x2	qtz-chl-py-(cp) qtz-chl-(mag) qtz-chl-py-cp qtz-chl-py-(cp)	1.5	Phs ↑	177	100	67	87974	.28	<.01		3.91	.014	.058	.23
	ND	190	30° 20° 20° 40°	1/8"-1/4"x3 1" 1/8" to 1/4"x2 1/2"	qtz-chl-py-(cp) clurocratic Frac qtz-chl-py-cp qtz-py-chl-(cp)	2.5		187	100	87	87975	.23	<.01	Au 3 ppb	4.05	.012	.050	.25

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 96-15

BOTTOM DEPTHS ZONE	ESTIMATE	ACTUAL
LEACH CAP		
LEACHABLE OX.		
LIM. ZONE		
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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS₂	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
- Some Cache Creek Meta-Volcanics interlayered or mixed with sections of the Border Phase Diorite	ND	200	45° 30° 0° 45°	hrln x5 3" 1/8" 1/2" x2	qtz-chl-py-(cp) qtz-py-chl-(cp) qtz-chl-py-(cp) qtz-carb-py-(cp)	1.5		197	100	73	87976	.16	<.01		4.77	.004	.042	.15
CACHE CREEK META-VOLCANICS; 207' to 217' chl(60-70%), carb(5-15%), qtz(5-15%)	ND	210	35° 40° 30° 30°	1/4" 1/2" to 1" x3 1/2" 1/2" x2	qtz-chl-py-carb-(cp) qtz-carb-py-(cp) qtz-chl-carb-py-(cp) qtz-carb-py-(cp)	1.5	gradual increasing chl + carb in this interval	207	100	80	87977	.14	<.01		3.02	.066	.044	.15
BORDER PHASE QUARTZ DIORITE; 217' to 288' Chl(40-45%), plag(40-45%), qtz(10-20%) - this Border Phase Diorite approaches being a Mine Phase Tonalite in some sections. But the fine to medium grain size and less than	ND	220	70° ? 70° 90°	1/8" x2 1" 1/2" 1 1/2"	qtz-chl-carb-py-(cp) bx+gg w/ carb-py-Mo-(cp) qtz-carb-chl-cp qtz-carb-((py))	0.7		217	97	23	87978	.25	<.01		3.80	.011	.046	.10
25% qtz is typical of a Border Phase Diorite. The plag is wk to mod saussuritized.	ND	230	40° 70° 70° 0°	hrln x3 hrln x2 1/4" x2 1/4"	qtz-carb-chl-py-cp qtz-carb-chl-py-(cp) qtz-carb-chl-(py) qtz-carb-chl-py-(cp)	<.5	- relatively few structures in this Tonalite like Border Phase Quartz Diorite	227	98	67	87979	.24	<.01		2.97	.010	.050	.07
	ND	240	30° 30° to 30 70°	5" hrln to 3/8" x2 1/4"	qtz-py-carb-chl-((cp)) qtz-carb-chl-py-(cp) ep-qtz-chl	3.0		237	100	47	87980	.12	<.01		2.87	.011	.036	.04
	ND	250	30° 40° 40° 40°	hrln x3 1/8" hrln x2 hrln x3	qtz-carb-hem qtz-chl-py qtz-chl-py-(cp) qtz-chl-cp-py	<.5		247	95	60	87981	.20	<.01		2.34	.013	.042	.06

/home/gib1/rydman/wptor/log_sheet.dwg

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	[illegible]	260	40° 40° 43°	hrln x2 ½" to ¼" x5 ¼"	qtz-ep-chl-py-cp qtz-cp-chl-(py) qtz-carb-hem	<.5		257	99	73	27982	.15	<.01		2.03	.007	.036	.04
	ND	270	90° 30° to 40° 0°	hrln x2 hrln x3 ¼"	qtz-chl-py-cp qtz-chl-py-cp qtz-chl-py-(cp)	<.5		267	100	63	27983	.16	<.01		2.17	.008	.039	.07
	ND	280	60° 10° 40°	⅓" x2 ⅓" hrln x2	qtz-chl-py-cp qtz-chl-carb-py-(cp) qtz-chl-py-(cp)	< 5	- gradual increasing chl in this interval	277	98	53	87984	.13	<.01		2.23	.007	.041	.05
CACHE CREEK META-VOLCANICS: 288' to 307' chl (60-80%), qtz (5-10%), carb (0-20%), ep (5-10%) - these meta-volcanics are composed completely of chl, in some sections, with specks and stringers of	ND	290	40° 70° 40° 30° to 40°	¾" hrln x2 3" hrln x4	qtz-carb-py-cp-chl qtz-chl-py-cp ep-qtz-chl qtz-chl-cp-py	0.7	chl↑	287	95	23	87985	.34	<.01	Au 4 ppb	3.50	.011	.058	.15
qtz+carb throughout the core.	ND	300	40° 40° 50° 70° 40°	hrln x2 hrln x2 2" 1" ½"	qtz-chl-py-cp qtz-chl-py-cp leucocratic Phase hbl-qtz-chl qtz-carb-py-cp	<.5	- possible massive hornblende in this interval infilled with qtz+carb The hbl is black with hardness +5 and has a black streak but does not display characteristic 120° cleavage.	297	99	10	87986	.26	<.01		2.79	.007	.053	.13
QUARTZ CARBONATE CHLORITE: 307' to 330' carb (75-95%), chl (5-15%), qtz (5-10%) - sharp contact between the meta-volcanic unit and the Quartz Carb. The Quartz Carb appears leucocratic in carb-rich (90+%) sections. The	~5° to 80° mod	310	70° to 80° 70° to 75° 70°	hrln x3 ½" x2 ⅛"	qtz-chl-py-(cp) qtz-carb-py-cp qtz-carb-chl-py-(cp)	<.5		307	96	60	87987	.17	<.01		4.56	.004	.061	.14

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
Chl is well foliated within this carb zone	ND to W[illegible]	320	60° 70° 70° 40°	hrln x3 ¼" hrln to ¾" x3 ½"	qtz-carb-py-(cp) qtz-carb-py-(cp) qtz-carb-py-chl-cp qtz-carb-mag	0.6		317	100	60	87988	.33	<.01		4.95	.007	.074	[illegible]
- alternating sections of carb [illegible] and [illegible] Border Phase [illegible]	ND to 20° mod	330	65° to 70° 30° 40 70° 90°	¼" x3 hrln x2 ¼" ½" hrln to ¾" x 11	qtz-carb-cp-py qtz-carb-chl-cp-py qtz-mag-carb-chl-(cp) qtz-carb-chl qtz-chl-cp-(cp)	<.5	[illegible]	327	100	80	87989	.23	<.01		3.43	.006	.058	36
BORDER PHASE QUARTZ DIORITE: 328' to 557' Chl(40-45%), plag(40-45%), qtz(-20%) - Similar to the Border Phase Diorite approaching a Mine Phase Tonalite, previously described.	ND	340	30° 80° to 90° 40° 40° 50°	¾" hrln x 3 hrln x4 ½" ½" to ¾" x4	qtz-mag-chl-(cp) qtz-chl-cp qtz-chl-py-cp qtz-chl-py cp-qtz-chl	<.5		337	100	87	87990	.14	<.01		2.00	.016	.036	.15
	ND	350	40° 20° 30° to 40°	¼" x2 ½" x2 ⅛" x2	qtz-chl-py-((cp)) qtz-py-chl-(cp) qtz-py-chl	0.6		347	100	77	87991	.09	<.01		2.02	.007	.026	.05
	ND	360	Stwk 40° 30° 20°	hrln x 7 ⅛" x2 hrln x2 ⅛"	cp-qtz-chl qtz-chl-py-(mo)-((cp)) carb-hem qtz-chl-(py)-(cp)	< 5	mod hem	357	99	60	87992	.14	<.01		2.59	.010	.035	.04
	ND	370	20° 40° 40°	hrln x2 hrln ⅛"	qtz-chl-py-cp qtz-chl-py qtz-chl-py-(cp)	<.5		367	96	47	87993	.11	<.01		2.61	.009	.033	.04

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 96-15 Page 7 of 10

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Qz Type & Alin	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: LEACH CAP; LEACHABLE OX.; UNL. ZONE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	UD		360	40° 40° 35° 10°	$\frac{1}{8}$"x3 $\frac{1}{4}$" hrlnx2 nrlnx2	qtz-chl-mag-(py) qtz-mag-chl-(py)-(cp) qtz-chl-py-cp qtz-chl-carb-py-(cp)	<.5		377	98	60	87991	.13	<.01		3.26	.007	.049	.04
	UD		390	40° 30° 10° 40°	$\frac{1}{8}$"=$\frac{1}{4}$"x3 $\frac{1}{8}$" $\frac{1}{4}$" $\frac{1}{8}$"	qtz-chl qtz-chl-mag-py-cp qtz-chl-mag-(py)-(cp) qtz-chl-carb-(py)	<.5		387	95	40	87995	.09	<.01		2.33	.005	.038	.02
	UD		400	40° 40° 40°	$\frac{1}{4}$" $\frac{1}{2}$" $\frac{1}{8}$"to$\frac{1}{4}$"x3	qtz-py-chl-carb qtz-mag-chl ep-qtz-chl	<.5		397	95	63	87996	.09	<.01		2.35	.005	.034	.02
- the plag in the Border Phase Diorite gradually becomes non-saussuritized when coincides with an increase in chl+carb	UD		410	20° 40 40° 40°	$\frac{1}{2}$" hrlnx2 $\frac{1}{8}$" $\frac{1}{4}$"x2	qtz-chl-py-carb-(cp) qtz-chl-py qtz-chl-carb-py-(cp) qtz-chl-py	1.0	chl+carb↑	407	100	70	87997	.09	<.01		2.90	.006	.030	.06
	UD		420	40 90° 40° 20° 70°	hrlnx2 $\frac{1}{2}$" $\frac{1}{2}$"to$\frac{1}{2}$"x2 $\frac{1}{8}$" $\frac{1}{4}$"	qtz-chl-carb-py qtz-carb-chl-(cp) qtz-carb-chl-py qtz-mag-chl-(cp) qtz-carb-py-(cp)	<.5		417	99	60	87998	.10	<.01		3.11	.010	.044	.04
QUARTZ CARBONATE CHLORITE: 421' to 431' carb(60-75%), chl(10-25%), py(5-10%) - similar to previously described Quartz Carbonate units but with slightly more chl overall.	UD to 70mod		430	70°,50° 40° 60° 70°	hrlnx3 nrlnx5 $\frac{1}{8}$" hrlnx2	qtz-chl-carb-py-(cp) qtz-carb-chl-mag-py-(cp) qtz-carb-mag-(cp) qtz-carb-chl-py-(cp)	<.5		427	97	83	87999	.10	<.01		4.21	.010	.046	.06

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS₂	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND to 30° [illegible]	440	50° 70° [illegible]	1/8" x 2 1/4" hrln x 3	qtz-carb-py-(cp) qtz-chl-carb-(cp) qtz-chl-carb-cp	< .5	[illegible]	437	100	70	88000	.12	<.01		2.45	.004	.051	.07
	ND	450	0° 50° 45° 10° [illegible]	hrln hrln x [illegible] hrln x 2 hrln 1/8"	qtz-chl-carb-(cp) qtz-(chl) qtz-chl-ep-cp qtz-chl-cp qtz-chl-py-(cp)	<.5	[illegible] wk hem	447	100	77	88001	.08	<.01		1.66	.004	.037	.05
	ND	460	70° 40° 40° 70° to 90°	hrln x 2 fractures hrln hrln x 2	qtz-chl-(py) hem-carb qtz-chl-ep-(cp) ep-qtz chl-py-(cp)	<.5	mod hem	457	98	53	88002	.07	<.01		1.73	.003	.019	.03
	ND to 40° wk	470	40° 90° 40°	1/8" hrln 1/8"	qtz-chl-py-(cp) qtz-chl-py-cp ep-qtz-chl	<.5		467	100	60	88003	.07	<.01		1.74	.004	.018	.02
	ND to 80-90° mod	480	90° 90° 80° 80°	1/8" 1/8" hrln x 2 hrln to 1/8" x 2	qtz-carb-py-(cp) qtz-carb-chl qtz-chl-carb-mag-py qtz-carb-chl-py-(cp)	<.5		477	100	43	88004	.07	<.01		2.73	.004	.012	.02
-sections of this interval are [illegible] Quartz Carbonate [illegible] alteration phase.	ND to 80° mod	490	80° 10° 20° 40°	hrln x 2 1/8 10" hrln x 2	qtz-chl-carb-py qtz-carb-py-(cp) Quartz Carbonate Chlorite qtz-chl-py-cp	<.5	carb ↑↑	487	99	47	88005	.07	<.01		2.26	.004	.015	.04

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 96-15 Page 9 of 10

BOTTOM DEPTHS

ZONE	ESTIMATE	ACTUAL
LEACH CAP		
LEACHABLE OX.		
LIM. ZONE		
SUPERGENE		

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	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
				10°	hrlm×2		gtz-chl-py-(cp)														
	MD to 70°wk			50°	1/8"		gtz-chl-py	<.5		497	100	57	88006	.07	<.01		1.85	.003	.009	.02
			500	50°	1/4"		gtz-chl-py														
				40°	1/4"		gtz-chl-py-py-cp														
	MD to 70°wk			30°to40°	1/8"×3		cp-gtz-chl	<.5		507	99	73	88007	.06	<.01		1.67	.005	.006	.04
			510	40°	1/8"		gtz-py-chl														
				40°	hrlm×2		gtz-carb-chl-py-(cp)														
				40°	1/8"		gtz-chl-py-(cp)														
	MD to 60°mod			40°	hrlm		gtz-carb-chl-py	<.5		517	100	60	88008	.06	<.01		2.31	.003	.015	.03
			520	10°	hrlm×2		gtz-carb-chl														
				30°	hrlm		gtz-chl-py-(cp)														
				40°	1/8"		gtz-chl-py-(cp)		carb ↑ hem wk												
	MD to 70°mod			70°	1/8" to 1/2"×3		gtz-carb-chl	<.5		527	100	60	88009	.06	<.01		2.58	.001	.013	.05
			530	40°	hrlm×2		gtz-mag-chl-cp														
				40°	1"		gtz-carb-chl-(py)														
				40°	1/2"		gtz-chl-cp														
	MD to 75°wk			50°	hrlm		gtz-chl-(py)-(cp)	<.5		537	100	63	88010	.10	<.01		1.39	.006	.008	.03
			540	40°	hrlm to 1/8"×2		gtz-chl-mag-py-(cp)														
				40°	hrlm		gtz-chl-py														
	MD to 40°wk			0°	hrlm		gtz-chl-py-(cp)														
				40°	1/8"×2		gtz-chl-py-(cp)	<.5	hem wk	547	100	67	88011	.06	<.01		1.42	.005	.009	.04
			550	40°	1/8"		gtz-mag-chl														

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG Hole No. 96-15 Page 10 of 10

BOTTOM DEPTHS		
ZONE	ESTIMATE	ACTUAL
LEACH CAP		
LEACHABLE OX.		
UM. ZONE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	Rx Type & Altn	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS$_2$	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	Nb to [illegible]				40°	[illegible]	qtz-chl-py-[illegible]	<.5			100	70	98013	.05	<.01		1.44	.005	.008	.06
					30°	[illegible]	qtz-chl-py													
					40°	[illegible]	qtz-chl-py-[illegible]-Mo			557										
							557' ☆ E.O.H.													
							[illegible]													

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 96-16 Page No. 1 of 2

LOCATION: Sawmill Area	BEARING: —	LATITUDE (N): 3188.417	CORE SIZE: NQ	LOGGED BY: Dick Yan
DATE COLLARED: June 20, 1995	LENGTH: 707'	LONGITUDE (E): 48762.583	SCALE OF LOG: 1"=10'	DATE: July 16, 1996
DATE COMPLETED: June 22, 1996	DIP: -90°	ELEVATION: 2935.602	REMARKS: hole was artesian	

ROCK TYPES and ALTERATION SYMBOLS

- BORDER PHASE QUARTZ DIORITE
- QUARTZ CARBONATE CHLORITE ALTERATION PHASE
- LEUCOCRATIC PHASE
- CHLORITE DARKENED MINE PHASE TONALITE
- MINE PHASE TONALITE

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
corb = 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
LEACH CAP	–	–
LEACHABLE OX.	105'	40'
LIM. ZONE	115'	115'
SUPERGENE	110'	110'

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION Decreasing Order of Abundance →	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
							OVB ESTIMATE 20' CASING TO 25'											
BORDER PHASE QUARTZ DIORITE: 25' to 34' Chl(40-50%), plag(40%), qtz(10%)	ND	30	40° ? 40°	hrlnx2 2' hrlnx4	qtz-chl-lim-py brx w/ lim-MnO_2-((py))-((cp)) qtz-chl-lim-(py)-(cp)-((mal))	<.5	- minor sulphides seen at the top of the hole.	27	90	7	87891	.10	.05	Au 2 ppb	1.55	.006	.014	05
LEUCOCRATIC PHASE: 34' to 38' qtz(60-70%), plag(30-40%), chl(<5%) - typically qtz-plag porphyry with few structures visible	ND	40	30° 20° 40° 40°	fracture hrln 1/8" 1/3"	lim-MnO_2-mal qtz-chl-lim-py-(cp) qtz-lim-(py)-(cp) qtz-lim-chl-(cp)-(py)	<.5		37	90	20	87892	.11	.04		.79	.005	.017	.06
BORDER PHASE QUARTZ DIORITE: 38' to 375' chl(40-50%), plag(40%), qtz(10%), ep(10%) - similar to previous Border Phase Quartz Diorite with a general fine to medium grain assemblage.	ND to 40° wk	50	40° 40° 40° 40°	1/8" hrlnx4 hrlnx5 1/8"x2	Leucocratic Phase qtz-chl-py-(cp) qtz-chl-cp qtz-chl-py-cp	<.5		47	93	53	87893	.23	.01		1.85	.009	.025	.07

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 96-4 Page 2 of 12

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 — LEACH CAP; LEACHABLE OX.; UNL. ZONE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	ASSAY RESULTS: % TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	MS		50		0°	nrln x2	gtz-chl-cp-py	<.5		- minor cc and trace native Cu seen in this interval	57	95	20	87894	.39	.01		2.51	.020	.036	.35
					0°	1/8"	gtz-chl-ep-(cp)														
					20°	fracture	hem-lim			chl↑											
					10°	fracture	lim-py-cc														
					45°	hrln x3	gtz-chl-cp														
	MS		70		40°	hrln x10	gtz-chl-cp-py-mag	<.5		numerous hairline stringers containing ep in this interval. chl+ep↑	67	90	30	87815	.57	.03	Au 3 ppb	2.96	.021	.042	.45
					40°	1/4"	gtz-chl-cp														
					40°	hrln x2	gtz-chl-cp														
					70°	fracture	lim-hem-py-cc														
	MD		80		30°	1/8"	gtz-chl-(cp)	<.5			77	96	27	87896	.34	.01		2.09	.013	.033	.13
					40°	hrln x3	gtz-ep-chl-cp														
					0°	fracture	hem-lim														
					40°	hrln x4	gtz-chl-cp														
	MD		90		60°	1/2"	gtz-chl-py-(cp)-(cc)	<.5			87	95	53	87897	.25	.01		2.29	.018	.027	.10
					30°	hrln x3	gtz-ep-chl-(cp)														
					30°	1/8"	gtz-mag-(cp)														
					40°	1/2"	gtz-carb-py														
	MS		100		0°	fracture	hem-nat Cu?	<.5		-possible nat Cu mixed with hem in fractures -perfect radiating crystals of azurite visible in the orx	97	95	7	87898	.37	.08		2.32	.016	.031	.30
					40°	hrln	ep-gtz-chl-py-(cc)														
					70°	1/8"	gtz-chl-py-lim-(cp)														
					?	4'	orx w/ lm-py-az-(mal)-(cp)														
	MS		110		?	2'	orx w/ lm-hem-az-(py)-(mal)	<.5			107	85	13	87899	.29	.04		2.78	.017	.035	.23
					?	1'	orx w/ hem-carb-lm-(cc)														
					40°	1/2"	gtz-mag-py-lim-(cp)														
					0°	1/8"	gtz-chl-py-cp-(cc)														

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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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS$_2$	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND	120	40° 40° 0° 0°	hrlnx2 ¼" to ½"x3 ⅛" fracture	qtz-chl-py-hem-(cp) qtz-carb-(py)-((cp)) qtz-chl-carb-py-(cp) hem-carb	<.5	Chl+carb↑	117	98	47	87900	.32	<.01	Au 2 ppb	3.23	.017	.043	.07
	ND	130	40° 10° 30° 20°	1" hrln ¼" ⅛"	ep-qtz-carb qtz-chl-cp qtz-py-chl-(cp) qtz-chl-py-((cp))	<.5	plag↑	127	99	43	87901	.22	<.01		2.49	.011	.031	.06
	ND	140	0° 40° 40° 40°	⅛" ⅛"x2 ¼" hrlnx2	qtz-chl-py-(cp) qtz-chl-py qtz-chl-py qtz-chl-py-(cp)	<.5		137	100	53	87902	.09	<.01		2.37	.007	.024	.04
	ND	150	50° 40° ?	hrln ⅛" 5'	qtz-chl-(py)-(cp) qtz-Mo-chl-(cp) brx+(qz) w/ hem-carb-(py)-[illegible]	<.5	- possible fault zone from 144' to 149', with abundant brx and minor gg	147	90	17	87903	.17	<.01		2.00	.021	.026	.03
MINE PHASE TONALITE: 155' to 170' plag(40-45%), qtz(20-25%), chl(20-30%) - increased qtz content and lighter overall appearance relative to the Border Phase Quartz Diorite. Noticeable increase in grain sizes associated with the Tonalite also.	ND to 40° wk	160	40° 40° 40° 40°	½" hrlnx2 1" hrln	qtz-mag-(py) qtz-chl-py-cp qtz-(Mo)-(py)-(cp) qtz-chl-cp	<.5	- str hem in fractures from 160' to 215'	157	90	33	87904	.18	<.01		2.11	.021	.024	.04
	ND to 40° wk	170	40° 40° 30° 40°	⅛" ⅛" ¾" hrln	qtz-carb-hem qtz-chl-carb-py-cp qtz-ep-(py)-((cp)) qtz-chl-py	<.5		167	97	60	87905	.08	<.01		1.49	.006	.016	.02

GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. [illegible]

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND	180	? 40° 0°	1' 1/8" hrln	brx w/ hem-carb qtz-chl-py-Mo-(cp) qtz-chl-py	<.5		177	93	43	87906	.10	<.01		2.15	.008	.024	.02
	ND	190	20° 30° 0° 40°	1" hrln fracture hrln	qtz-carb-chl-((py))-((cp)) qtz-chl-py-(cp) hem-carb qtz-carb-chl-py-((cp))	<.5	chl?	187	97	30	87907	.15	<.01		3.02	.007	.031	.03
	ND	200	? 0° 30° 0°	3' 1/8" hrln x2 1/4"	brx+(gg) w/ hem-carb qtz-Mo-py-(cp) qtz-chl-py qtz-carb-chl-mag-py-(cp)	<.5	possible fault / core 190' to 193'	197	90	10	87908	.18	<.01		2.32	.014	.027	.02
	ND	210	50° 50° 40° 10° to 30°	1/4" hrln 1/4" hrln x3	qtz-carb-chl qtz-chl-py-(mo)-(cp) qtz-mag-(py)-((cp)) qtz-chl-carb-py(cp)	<.5		207	95	43	87909	.16	<.01		3.18	.009	.035	.05
	ND	220	0° to 10° 10° 30° to 40° 70°	hrln to 1/8" x2 hrln hrln x2 1/8"	qtz-chl-py-ep-(cp) qtz-chl-hem-carb-py qtz-chl-py-((cp)) qtz-mag-(cp)	<.5		217	98	63	87910	.10	<.01		2.01	.003	.017	.05
	ND	230	90° 40° 20° to 30° 80°	1/2" 1/4" hrln x2 shears x2	chl-qtz-carb-(cp) qtz-mag-(cp) qtz-ep-chl-py(cp) chl-py-cp	<.5		227	100	73	87911	.12	<.01		1.75	.002	.021	.06

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. [illegible] Page 5 of 12

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	GRAPHIC LOG Alfn & Type	Footage	Structure	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	BOTTOM DEPTHS ZONE / ESTIMATE / ACTUAL: LEACH CAP; LEACHABLE OX.; UNL. ZONE; SUPERGENE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS_2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
			240		30° 20° 0°	hrln x3 ¼" ⅓"	gtz-chl-py-mag-(cp) gtz py-(mal)-(cp) gtz-mag-chl-py-(cp)	< .5			237	100	63	87912	.08	<.01		2.06	.005	.017	.03
	KD		250		40° 30° 0° 40°	hrln x ¼" ad ⅛" ¼" hrln x3	gtz-chl-carb-(py)-(cp) gtz chl-carb py-(cp) gtz-carb-(py)-(cp) gtz-chl-cp	< .5	Carb?		248 247	96 96	43	87913	.14	<.01		2.09	.004	.019	.06
	KD		260		50° ? 40°	½" 1' ⅛"	gtz-carb-(py) brx+qs w/carb-(py) gtz-carb-(cp)	< .5			257	90	60	87914	.17	<.01		1.99	.007	.021	.03
	KD to 40°mod		270		20° 30° 45° 40°	¼" hrln hrln ⅓"x3 ¼"	gtz-carb gtz chl-cp-py gtz-chl-mag-carb-(cp) gtz-mag-chl-(cp)	< .5			267	97	53	87915	.18	<.01		2.86	.010	.028	.07
QUARTZ CARBONATE CHLORITE 275' to 290' carb(45-55%), qtz(30-30%), chl(25-35%) - gradual transition from Border Phase Quartz Diorite with increasing foliation and carb alfn.	KD to 40°mod		280		60° 40° 40° 40°	⅛" to ½" x3 hrln x4 ¾" 6"	gtz-carb gtz-chl-py-(cp) gtz-carb-chl-mag-(cp) gtz-carb-chl-(cp)	< .5			277	100	40	87916	.34	<.01		3.48	.015	.046	.03
	KD to 60°str		290		60°	hrln to ½"	gtz-chl-carb-(py)-(cp)	< .5			287	100	37	87917	.24	<.01		3.85	.018	.056	.05

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 96-16 Page ∘ of 12

BOTTOM DEPTHS: ZONE	ESTIMATE	ACTUAL
LEACH CAP		
LEACHABLE OX.		
LIM. ZONE		
SUPERGENE		

ROCK TYPES and ALTERATION	FOLIATION ANGLE & INTENSITY	Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
BORDER PHASE QUARTZ DIORITE: 290' to 500' chl(40-50%), plag(45%), qtz(5-15%) Similar to [illegible] and Border Phase Quartz Diorites	ND to 70° wk	300	20° 10° 30° 40°	1/8" 1/2" 1/8" 1/4"	qtz-carb qtz-chl-mag-carb-(cp) qtz-chl-carb-mag-(cp) qtz-chl-mag-carb-py-(cp)	<.5	mod hem	297	100	33	87918	.20	<.01		1.79	.013	.034	.01
	ND to 70° wk	310	40° to 50° 40° 40°	hrln x2 hrln x2 1/8" to 1/2" x2	qtz-carb-hem qtz-chl-py qtz-carb-chl-py-((cp))	<.5		307	100	60	87919	.06	<.01		1.24	.006	.024	.02
	ND to 70° wk	320	45° 70° 70° 70°	1/8" 1/8" to 1/2" x2 1 1/2" 1/8"	qtz-chl-py-(cp) qtz-carb-chl qtz-chl-mag-((cp)) mag-qtz-carb-((cp))	<.5		317	100	60	87920	.08	<.01		1.44	.003	.034	.05
	ND	330	50° 40° 0° 40°	hrln to 1/8" x3 1/8" 2" hrln x2	qtz-carb-chl qtz-chl-py-((cp)) qtz-(chl)-((cp)) qtz-chl-py-(cp)	<.5		327	100	77	87921	.10	<.01		1.76	.004	.027	.03
	ND	340	40° 40° 30° 60°	hrln x2 hrln x2 hrln 1/4" to 1/2" x5	qtz-chl-py qtz-chl-py-(cp) qtz-chl-py ep-qtz-chl	<.5		337	100	33	87922	.06	<.01		1.25	.003	.023	.02
	ND	350	0° ? 90° 60° 40°	1/8" 1 1/2' 1/4" 1/4" hrln x3	qtz-carb-hem brx w/ lm-(py) qtz-carb-mag-chl qtz-py-chl qtz-chl-py-(cp)	<.5	- some bevelled, lim coated fragments in the brx are most likely from the top of the hole.	347	95	27	87923	.10	<.01		1.52	.005	.034	.02

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GIBRALTAR MINES LIMITED (McLEESE LAKE PROPERTY) DIAMOND DRILL LOG

Hole No. 96-16

ZONE	ESTIMATE	ACTUAL
LEACH CAP		
LEACHABLE OX.		
LIM. ZONE		
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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND to 40° wk	360	40° 40° 70°	hrln x2 1/8" 1/8"	qtz-chl-py qtz-chl-py-(cp) qtz-chl-py-(cp)	<.5		357	95	33	87924	.09	<.01		1.29	.006	.023	.03
	ND to 40° mod	370	60° to 70° 60° 40° 50°	hrln x2 hrln x2 1/8" x2 1/4"	qtz-chl-py-(cp) qtz-chl-carb-py-((cp)) qtz-carb-chl-py-cp qtz-carb-((cp))	<.5		367	97	37	87925	.18	<.01		1.82	.013	.035	.06
	ND to 40° mod	380	10° ? 50° 30° to 40°	1/2" 2' 3" 1/2 to 2" x3	qtz-(carb) brx w/ carb-hem-(py)-((cp)) qtz-ep-chl-(py)-(cp) qtz-chl-carb-(mag)-(py)	<.5		377	95	43	87926	.08	<.01		1.61	.006	.026	.03
	ND to 40° mod	390	? 40° 40° 40°	1' hrln x6 hrln x8 1/4"	brx w/ carb-hem-(py) qtz-chl-py-(cp)-(mo) qtz-chl-py-(cp) qtz-chl-(cp)-(py)	0.6		387	90	47	87927	.18	<.01		1.59	.022	.028	.06
- Sharp contact between the Border Phase Quartz Diorite and a carb-rich qtz+plag porphyry at 394'.	ND to 40° mod	400	20° to 40° 60° 40° ?	hrln x2 9" 1/8" 3 1/2'	qtz-chl-py-(cp) Leucocratic Phase qtz-chl-carb-py-((cp)) brx + gg w/ carb-hem-(py)	<.5		397	90	60	87928	.13	<.01		1.43	.010	.024	.05
	ND to 40° mod	410	40° 10° 40° 40°	hrln x2 1/2" x2 hrln x5 hrln x4	qtz-chl-py-(cp) qtz-chl-carb qtz-chl-py-(cp) qtz-chl-py-((cp))-((mo))	0.6		407	80	27	87929	.11	<.01		1.61	.017	.022	.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 Footage	STRUCTURE (veins) ANGLE TO CORE AXIS	STRUCTURE (veins) WIDTH	MINERALIZATION	ESTIMATE % PYRITE	REMARKS	FOOTAGE BLOCKS	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	ND to 40° mod	420	40° 10° 30 40°	hrln to 1/8"x3 1/2" hrln x3 hrln x5	qtz-chl-py-((cp)) qtz-chl-(py) qtz-carb-hem qtz-chl-py-(cp)	<.5		417	95	33	87930	.12	<.01		1.81	.022	.022	.02
	ND to 40° mod	430	45° 20° 60° 40°	hrln x3 1/4 2" 1/2"	qtz-chl-py-(cp) qtz-carb-chl qq w/ carb-(py) qtz-chl-py-((cp))	<.5		427	95	43	87931	.15	<.01		1.90	.005	.033	.03
	ND to 40° wk	440	40° 40° 40° 40°	1/16" hrln x3 1/4"x2 hrln x2	qtz-carb-chl-(py) qtz-chl-carb-py-cp qtz-carb-chl qtz-chl-py-(cp)	<.5	carb↑	437	95	27	87932	.16	<.01		2.32	.008	.038	.04
	ND to 40° mod	450	30° 30° to 40° 20° 40°	hrln x2 1/8"x3 1/8" 1/8"	qtz-chl-(cp) qtz-chl-carb-py qtz-carb-mag-cp qtz-carb-chl-py	<.5		447	90	47	87933	.18	<.01		2.99	.012	.048	.05
LEUCOCRATIC PHASE: 455' to 464' qtz (35-45%), plag (30%), carb (5%), chl (5-10%) - gradual increase in carb in the Border Phase Quartz Diorite with a gradational contact into the Leucocratic Phase	ND to 40° str	460	40° 40° 45° 20°	hrln x4 1/8"x2 hrln x7 1/8" to 1/4"x2	qtz-chl-carb-py-cp qtz-mag-carb-py-(cp) qtz-chl-carb-py-(cp) qtz-py-carb	0.7	carb↑↑	457	97	80	87934	.19	<.01		3.44	.010	.055	.08
	ND to 40° mod	470	45° 40° 40° 40°	hrln x2 2" 1/8" to 1/4"x3 hrln to 1/8"x5	qtz-carb-py-(cp) py-qtz-carb-(cp) qtz-mag-py-(cp) qtz-chl-carb-py-cp	2.0		467	95	63	87935	.17	<.01		3.32	.008	.050	.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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS₂	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	40 to 55° str	480	40° 40° 40° 40°	1/8" to 1/2" x 5 1/4" x 2 1/8" to 1/2" x 7 1/4"	qtz-chl-py-(cp) qtz-carb-chl qtz-chl-carb-py-(cp) qtz-py-carb-(cp)	1.5		477	100	57	87936	.38	<.01		3.85	.010	.063	.25
	40 to 45° str	490	40° ? 40° 40°	1/4" 1' hrln x 3 hrln x 4	qtz-carb-py-(cp) brx w/carb-(py)-(hem)-(cp) qtz-chl-carb-py-(cp) qtz-chl-carb-py-(cp)	1.0		487	99	20	87937	.17	<.01		1.96	.019	.035	.10
	40 to 45° mod	500	40° 40° 30° to 40° 30°	hrln x 5 1/4" hrln x 10 1/4"	qtz-chl-py-cp qtz-mag-(py)-(cp) qtz-chl-cp-py qtz-carb-chl-(py)	1.0		497	95	47	87938	.40	<.01		2.62	.011	.042	.37
CHLORITE DARKENED MINE PHASE TONALITE: 500' to 697' plag (40-45%), qtz (25-30%), chl (25-35%) - noticeable rise in qtz and slight decrease in chl from the Border Phase Quartz Diorite. There is a gradational contact between these	30 to 40° wk	510	40° 30° to 40° 40° 40°	1/4" x 2 1/4" x 3 1 1/2" hrln to 1/4" x 6	qtz-carb-chl-py-(cp) qtz-chl-py-(cp) qtz-chl-carb qtz-chl-py-(cp)	0.7	(Plag + qtz ↑	507	97	60	87939	.20	<.01		2.13	.011	.029	.14
two rock types. The Chlorite Darkened Tonalite also has the typically larger grain sizes compared to the Border Phase Diorite.	40 to 45° mod	520	10° 40° 40° 30°	1/2" 1/8" to 1/4" x 2 1/2" hrln x 5	qtz-(Mo)-(cp) qtz-chl-py-(cp) qtz-carb-mag-chl-(cp) qtz-chl-py-cp	1.0	- minor to moderate hem stained fractures from 510' to 560'	517	100	60	87940	.31	<.01	Au 4 ppb	2.06	.059	.035	.24
	40 to 45° wK	530	40° 40° 30° 20°	hrln to 1/4" x 6 1/2" hrln x 4 fracture	qtz-chl-py-(cp) ep-qtz-chl qtz-chl-py-(cp)-(Mo) hem-carb	1.0	(carb ↑	527	99	43	87941	.23	<.01		2.23	.012	.031	.13

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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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	[illegible] to 40° [illegible]	540	60° 30° to [illegible] 40°	½" [illegible] x3 hr ln x4	qtz-chl-py-(cp) qtz-chl-py-((cp)) qtz-chl-py-(cp)	1.0		537	98	47	87942	.15	<.01		1.85	.017	.026	.07
	ND	550	40° 40° 10° 40° to 50°	hr ln x2 ½" ¼ ⅛" x2	qtz-chl-py-cp qtz-mag-carb-(cp) qtz-chl-carb qtz-chl-carb-py-(cp)	0.7		547	[illegible]	33	87943	.13	<.01		1.49	.011	.027	.06
	[illegible] to 40°wk	560	30° 30° to 40° 40° 40°	hr ln [illegible] x2 hr ln x4 ¼" ¼"	qtz-chl-py-(cp) qtz-chl-(cp)-(py) qtz-py-chl qtz-mag-chl-carb-(py)	0.7		557	96	37	87944	.18	<.01		2.15	.011	.029	.05
	ND to 40°wk	570	40° 40° 30°	⅛" ¼" hr ln x3	qtz-chl-py-(cp) qtz-carb-chl-py-(cp) qtz-chl-py-(cp)	<.5		567	95	37	87945	.22	<.01		2.53	.015	.029	.04
	ND to 30°-40° wk-mod	580	0° 30° to 40° 10° 40°	¼" hr ln x2 ¼" ¼"	qtz-chl-py-(cp) qtz-chl-carb-py-cp qtz-chl carb-py qtz-mag-carb-(py)-(cp)	0.6		577	98	50	87946	.19	<.01		3.13	.010	.032	.03
	ND to 40°wk	590	40° 30° to 40° ? 10°	hr ln x3 hr ln x2 3' ⅛"	qtz-chl-py-(cp) qtz-chl-py-(cp) brx + gg w/ carb-((py))-((cp)) qtz-chl-py-(cp)	<.5		587	92	37	87947	.26	<.01		2.94	.015	.035	.09

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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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
Sections of the ... type ... and ... towards the Quartz Carbonate chlorite alteration phase	wk to mod cren	600	10° 40° cren 40°	1/4" hrln x3 3" 1/3" to 1/4" x3	qtz-chl-carb-py-mag-(cp) qtz-chl-py-cp qtz-carb-chl-gyp-(py)(Mo)-(cp) qtz-carb-chl-gyp-cp	.6	"carb"	597	98	80	87948	.21	<.01		2.83	.012	.033	.24
	wk to mod	610	30° 70° 40° 40° 40°	1/2" 1/2" 1/4" 1/8" x2 hrln x7	qtz-carb-py-cp qtz-carb-chl-cp qtz-chl-py-(cp) gyp-chl qtz-chl-carb-py(Mo)-(cp)	0.7	some gypsum visible from 590 to E.O.H. The gypsum is a clear light brown and is soft. A rise in grade seems to be associated with the appearance of gypsum	607	100	83	87949	.36	<.01		3.23	.012	.037	.23
	wk	620	40° 30° to 40° 40° 50°	1/8" to 1/4" x2 1/2" to 1/4" x3 1/2" to 1/4" x2 1/4" x3	qtz-chl-py-(cp) gyp qtz-chl-py-(cp) ep-qtz-chl	1.0	most of the cp is diss or in numerous stringers for this gyp rich zone. ep↑	617	100	80	87950	.29	<.01	Au 2 ppb	2.60	.023	.032	.35
	wk	630	0° 70° 30° 40° to 50° 40°	1/4" 1/8" hrln x2 1/8" x2 hrln x8	qtz-chl-py-cp gyp qtz-chl-py-carb-cp-Mo gyp qtz-chl-cp-Mo	<.5		627	100	87	87951	.27	<.01		1.90	.048	.028	.26
	wk to 50° wk	640	40° 40° 40° 30°	1/2" hrln x5 1/2" 1/4"	qtz-mag-chl-py-cp qtz-chl-py-cp mag-qtz-(cp)-(py) gyp	<.5	mag↑	637	100	93	87952	.23	<.01		1.82	.014	.026	.22
	wk to 60° md	650	60° [illegible] 60° 30° 50°	1/8" [illegible] hrln x4 1/4" hrln x5	gyp [illegible] qtz-chl-carb-py-cp gyp-carb qtz-chl-carb-py-cp	0.6		647	100	77	87953	.28	<.01		3.10	.024	.041	.19

BOTTOM DEPTHS ZONE	ESTIMATE	ACTUAL
LEACH CAP		
LEACHABLE OX.		
LIM. ZONE		
SUPERGENE		

/home/gib1/rydman/acptor/log_sheet.dwg

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	ESTIMATED CORE RECOVERY	R.Q.D.	SAMPLE NUMBER	% TCu	% ASCu	% CNSCu	% ASFe	% MoS2	oz/ton Ag	ESTIMATED TOTAL Cu GRADE (%)
	[illegible] to 75° wk	660	[illegible] 70° 80° 60° to 70° 50° to 80°	hrln x3 hrln x4 $\frac{1}{2}$" hrln x4 [illegible]	gyp qtz-[illegible]-py-cp-Mo qtz-mag-(py)-(cp) gyp qtz-chl-carb-py-[illegible]	<.5		657	100	90	87954	.29	<.01		2.11	.028	.033	.2
sharp contact between the chl [illegible] and [illegible] from [illegible] to 667'	[illegible] to [illegible] mod	670	40° 40° 80° 40° 40°	hrln x4 [illegible] $\frac{1}{2}$" x2 hrln x3	qtz-chl-gyp-(cp) qtz-[illegible]-cp-py-Mo qtz-chl-carb-gyp-[illegible] gyp qtz-chl-py-(cp)	<.5		667	100	80	87955	.28	<.01	Au 2 ppb	2.04	.023	.036	.30
	40 to 40° wk	680	40° 50° 40° to 50° 40° 50°	[illegible] x2 hrln x4 $\frac{1}{2}$" x2 hrln x7 $\frac{1}{2}$"	qtz-chl-cp-py qtz-chl-cp-py gyp qtz-chl-py-cp gyp	<.5		677	100	90	87956	.39	<.01		2.07	.018	.044	.35
	40 to 40° wk	690	70° 40° 40° to 50° 70° 40°	$\frac{1}{4}$" x2 $\frac{1}{2}$" [illegible] x2 $\frac{1}{2}$" x2 hrln to $\frac{1}{4}$" x4	qtz-chl-gyp-(py)-(cp) gyp qtz-chl-mag-py-cp gyp qtz-chl-py-cp	< 5		687	100	87	87957	.47	<.01		2.27	.029	.045	.38
MINE PHASE TONALITE: 697' to E.O.H. plag(40-50%), qtz(25-30%), chl(20-25%) - the mine phase tonalite has a lighter overall color due to the saussurite altn. compared with [illegible] tonalite. There is a sharp contact between the	40	700	30° to 40° 40° 40° 90° 40°	hrln x3 $\frac{1}{8}$" to $\frac{1}{2}$" x2 hrln to $\frac{1}{4}$" x4 $\frac{1}{8}$" hrln x4	qtz-chl-py-(cp) gyp-(cal) qtz-chl-cp gyp qtz-chl-gyp-py-(cp)	<.5		697	100	87	87958	.27	<.01		1.68	.015	.038	.23
two rock types which [illegible]	40 to 50° wk		40° 40° 30° 30° to 40°	$\frac{1}{4}$" [illegible] [illegible] $\frac{1}{8}$" x3	qtz-carb-cp qtz-chl-gyp-carb-py-cp qtz-carb-chl-(cp) qtz-chl-cp-py	<.5		707	100	93	87959	.40	<.01		1.77	.016	.034	.35
					707' ★ E.O.H.													

Dick Poon

APPENDIX C : ASSAY PROCEDURES

All core was bucked and assayed at the Gibraltar Mines Limited laboratory facilities. The core was sampled in 3.05 m (10 feet) sections (core was not split). Each 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.

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.

Acid Soluble Iron

Acid soluble iron analysis was done on 1 g samples dissolved in 15 ml of HNO_3. The sample was then boiled until fuming was finished, with an additional 20 ml of HCl being added and boiled until fuming was complete. 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.

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.

Silver

Silver analysis was carried out on 30 g samples dissolved in 50 ml of HNO_3, then brought to a boil. 100 ml of HCl was then added and dissolved at room temperature for 4 hours, agitating regularly. The remaining solution was bulked to 200 ml with H_2O. A portion of filtered solution was then assayed using standard atomic absorption techniques.

APPENDIX D : ASSAY CERTIFICATES

m. No. Mill - 1

96-12

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date July 10 19 96

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	A.S. Fe	oz/Ton Ag	ppm Ag
87681	<.01	.05	<.001	2.00	.021	.7
82		.04	<.001	2.32	.032	1.1
83		.10	<.001	3.26	.044	1.5
84		.04	<.001	3.52	.035	1.2
85		.05	<.001	4.00	.038	1.3
86		.13	.200	8.90	.050	1.7
87		.17	.040	8.78	.053	1.8
88		.21	.014	3.54	.047	1.6
89		.22	.013	3.00	.041	1.4
90		.09	.001	2.78	.032	1.1
91		.20	.003	3.55	.047	1.6
92		.10	.003	3.37	.023	.8
93		.06	<.001	1.80	.023	.8
94		.10	<.001	2.61	.029	1.0
95	↓	.07	.069	2.92	.021	.7
87751	.01	.04	<.001	1.56	.021	.7
52	.07	.08	<.001	1.59	.018	.6
53	.05	.06	<.001	2.55	.021	.7
54	.02	.04	<.001	2.37	.024	.8
55	.02	.05	<.001	2.74	.024	.8
56	.03	.09	<.001	2.84	.032	1.1
57	<.01	.10	.001	3.65	.035	1.2
58	.01	.15	.004	4.01	.050	1.7
59	.01	.10	.002	4.01	.044	1.5
60	<.01	.25	.002	5.10	.074	2.5
61	<.01	.22	.006	6.40	.062	2.1
62	<.01	.06	<.001	3.25	.026	.9
63	<.01	.12	<.001	3.80	.041	1.4

96-1

cc: Assay Lab.

J.J

. No. Mill - 1

96-12

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date ..... 17 JUNE 1996

Sample No.	% Ox. Cu.	Total Cu.	% MoS₂	A.S. Fe	oz./T. Ag	
K-13						
87764	<.01	.17	.002	4.86	.036	
65	.01	.16	.003	5.81	.042	
66	<.01	.11	.001	4.39	.033	
67	<.01	.24	.002	4.34	.049	
68	<.01	.15	.001	4.10	.035	
69	<.01	.10	.003	5.74	.023	
70	<.01	.13	.007	4.84	.029	
71	<.01	.15	.002	4.96	.028	
72	<.01	.15	.004	5.92	.025	
73	<.01	.14	.003	5.72	.022	
74	<.01	.11	.004	5.19	.019	
75	<.01	.12	.005	4.39	.017	
76	<.01	.12	.003	4.19	.020	
77	<.01	.12	.009	4.52	.017	
78	.01	.11	.008	3.44	.028	
79	<.01	.09	.008	4.64	.025	
80	<.01	.08	.008	4.51	.029	
81	.01	.08	.004	3.37	.028	
82	<.01	.24	.003	6.37	.058	
83	<.01	.35	.022	6.30	.062	
84	<.01	.16	.013	4.53	.035	
85	<.01	.27	.012	3.09	.038	
86	<.01	.12	.005	5.00	.026	
87	<.01	.16	.007	2.95	.027	
K-12						96-12
87698	<.01	.15	.002	2.80	.028	
97	<.01	.15	.002	3.22	.030	
98	<.01	.13	.003	3.89	.030	
99	<.01	.15	.003	3.47	.029	

cc: Assay Lab.

Form. No. Mill - 1

96-12

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date July 18 19 96

Sample No.	% Cx. Cu.	Total Cu.	% MoS2	A.S. Fe	oz/Ton Ag	96-12
87700	<.01	.20	.003	4.59	.051	
01		.27	.004	5.07	.058	
02		.14	<.003	3.02	.043	
03		.19	.004	4.38	.044	
04		.23	.004	6.33	.058	
05		.11	<.003	3.70	.034	
06		.13	.006	3.42	.040	
07		.14	.006	4.00	.037	
08		.14	.008	3.25	.041	
09		.12	<.018	3.55	.033	
10		.12	<.010	2.83	.034	
11		.10	.011	2.96	.026	
87788		.20	.006	4.04	.046	
89		.19	.008	4.13	.057	
90		.36	.019	4.84	.067	
91		.38	.086	4.63	.056	
92		.22	.036	3.25	.043	
93		.22	.011	3.20	.045	
94		.30	.021	4.20	.050	
95		.19	.008	2.83	.039	
96		.27	.016	2.60	.043	
97		.37	.012	2.80	.036	
98		.23	.004	4.35	.050	
99		.15	.010	3.14	.063	
800		.22	.007	3.32	.043	
01		.44	.009	3.64	.048	
02		.27	.007	2.42	.030	
03		.22	.006	2.85	.037	

cc: Assay Lab.

Assayer

Form. No. Mill - 1

96-12

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date ..... 23 JULY ....., 1996..

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% A.S. Fe	oz./T. Ag	
96-13						
87804	.01	.17	.008	2.09	.034	
05	.01	.22	.009	2.82	.044	
06	.01	.46	.011	3.18	.049	
07	.01	.23	.004	1.93	.033	
08	.01	.07	.001	1.37	.018	
09	.01	.14	.008	2.48	.031	
10	.01	.40	.005	1.94	.045	
11	.01	.10	.009	1.16	.019	
12	.01	.11	.005	2.01	.030	
13	.01	.08	.005	2.37	.036	
14	.01	.24	.006	2.60	.063	
15	.01	.18	.005	2.20	.048	
16	.01	.08	.002	1.58	.024	
17	.01	.14	.002	1.52	.023	
96-12						96-12
87712	.01	.10	.011	3.29	.025	
13	.01	.16	.005	4.03	.034	
14	.01	.15	.007	3.00	.032	
15	.01	.15	.010	4.08	.040	
16	.01	.11	.004	5.18	.049	
17	.01	.15	.005	5.47	.050	
18	.01	.21	.013	5.21	.053	
19	.01	.24	.017	3.72	.055	
20	.01	.20	.021	2.42	.032	
21	.01	.14	.005	1.65	.025	
22	.01	.15	.014	1.62	.021	
23	.01	.31	.014	2.57	.041	
24	.01	.09	.004	1.39	.025	
25	.01	.14	.006	2.20	.028	

cc: Assay Lab

Assayer D.A.W.

Form No. Mill - 1

96-12

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date July 19 19 96

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	A.S. Fe	oz/Ton Ag	96-12
87726	<.01	.08	.007	1.30	<.022	
27		.18	<.021	2.05	<.033	
28		.12	<.011	1.85	<.027	
29		.15	<.008	2.25	<.030	
30		.10	<.004	2.19	<.030	
31		<.11	<.003	1.71	<.036	
32		<.13	<.006	2.10	<.033	
33		.10	<.006	3.35	<.029	
34		<.21	<.006	2.05	<.030	
35		.12	<.004	2.13	<.025	
36		.22	<.006	2.60	<.030	
37		.19	<.002	2.43	<.025	
38		.08	<.003	1.27	<.029	
39		.14	<.007	1.74	<.026	
40		.12	<.010	2.37	<.025	
41		.06	<.003	1.90	<.021	
42		<.07	<.003	1.71	<.019	
43		.15	<.008	3.92	<.035	
44		.24	<.006	2.12	<.024	
45	↓	<.12	<.008	1.83	<.016	↓
87891	.05	.10	<.006	1.55	<.014	
92	.04	.11	<.005	.79	<.017	
93	.01	.23	<.009	1.85	<.025	
94	.01	.39	<.020	2.51	<.036	
95	.03	.57	<.021	2.96	<.042	
96	<.01	.34	<.013	2.09	<.033	
87821	<.01	.08	<.004	4.85	<.037	
22	<.01	.14	<.004	3.51	<.030	

cc: Assay Lab

Assayer

n. No. Mill - 1

96-13

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date July 10 19 96

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	A.S. Fe	oz/Ton Ag	ppm Ag
87681	<.01	.05	<.001	2.00	.021	.7
82		.04	<.001	2.32	.032	1.1
83		.10	<.001	3.26	.044	1.5
84		.04	<.001	3.52	.035	1.2
85		.05	<.001	4.00	.038	1.3
86		.13	.200	8.90	.050	1.7
87		.17	.040	8.78	.053	1.8
88		.21	.014	3.54	.047	1.6
89		.22	.013	3.00	.041	1.4
90		.09	.001	2.78	.032	1.1
91		.20	.003	3.55	.047	1.6
92		.10	.003	3.37	.023	.8
93		.06	<.001	1.80	.023	.8
94		.10	<.001	2.61	.029	1.0
95	↓	.07	.009	2.92	.021	.7
87751	.01	.04	<.001	1.56	.021	.7
52	.07	.08	<.001	1.59	.018	<.6
53	.05	.06	<.001	2.55	.021	.7
54	.02	.04	<.001	2.37	.024	.8
55	.02	.05	<.001	2.74	.024	.8
56	.03	.09	<.001	2.84	.032	1.1
57	<.01	.10	.001	3.65	.035	1.2
58	.01	.15	.004	4.01	.050	1.7
59	.01	.10	.002	4.01	.044	1.5
60	<.01	.25	.002	5.10	.074	2.5
61	<.01	.22	.006	6.40	.062	2.1
62	<.01	.06	<.001	3.25	.026	.9
63	<.01	.12	<.001	3.80	.041	1.4

96-1

cc: Assay Lab.

m. No. Mill - 1

96-13

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date ..... 17 JUNE 1996

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	A.S. Fe	oz./T. Ag	96-13
96-13						
87764	<.01	.17	.002	4.86	.036	
65	.01	.16	.003	5.81	.042	
66	<.01	.11	.001	4.39	.033	
67	<.01	.24	.002	4.34	.049	
68	<.01	.15	.001	4.10	.035	
69	<.01	.10	.003	5.74	.023	
70	<.01	.13	.007	4.84	.029	
71	<.01	.15	.002	4.96	.028	
72	<.01	.15	.004	5.92	.025	
73	<.01	.14	.003	5.72	.022	
74	<.01	.11	.004	5.19	.019	
75	<.01	.12	.005	4.39	.017	
76	<.01	.12	.003	4.19	.020	
77	<.01	.12	.009	4.52	.017	
78	.01	.11	.008	3.44	.028	
79	<.01	.09	.008	4.64	.025	
80	<.01	.08	.008	4.51	.029	
81	.01	.08	.004	3.37	.028	
82	<.01	.24	.003	6.37	.058	
83	<.01	.35	.022	6.30	.062	
84	<.01	.16	.013	4.53	.035	
85	<.01	.27	.012	3.09	.038	
86	<.01	.12	.005	5.00	.026	
87	<.01	.16	.007	2.95	.027	
96-12						
87696	<.01	.15	.002	2.80	.028	
97	<.01	.15	.002	3.22	.030	
98	<.01	.12	.003	3.89	.030	
99	<.01	.15	.003	3.47	.029	

cc: Assay Lab.

Assayer: D. A. [illegible]

Form No. Mill - 1

96-13

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date 19

Sample No.	% Ox. Cu.	Total Cu.	% MoS2	A.S. Fe	oz/Ton AgO_2	
87700	4.01	.20	.003	4.59	.051	
01		.27	.004	5.07	.058	
02		.14	.003	3.02	.043	
03		.19	.004	4.38	.044	
04		.23	.004	6.33	.058	
05		.11	.003	3.70	.034	
06		.13	.006	3.42	.040	
07		.14	.006	4.00	.037	
08		.14	.008	3.25	.041	
09		.12	.018	3.55	.033	
10		.12	.010	2.83	.034	
		.10	.011	2.96	.026	
						96-13
87733		.20	.006	4.04	.046	
34		.19	.008	4.13	.057	
35		.36	.019	4.84	.067	
36		.38	.686	4.63	.056	
37		.22	.036	3.25	.043	
38		.22	.011	3.20	.045	
39		.30	.021	4.20	.050	
40		.19	.008	2.83	.039	
41		.27	.016	2.60	.043	
42		.37	.012	2.80	.036	
43		.23	.004	4.35	.050	
44		.15	.010	3.44	.063	
45		.22	.007	3.32	.043	
46		.44	.009	3.64	.048	
47		.27	.007	2.42	.030	
48		.22	.006	2.85	.037	

cc: Assay Lab.

Assayer .....

orm. No. Mill - 1

96-13

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date ..... 23. JULY ..... 1996..

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% A.S Fe	oz./T. Ag	
96-13						96-13
87804	.01	.17	.008	2.09	.034	
05	.01	.22	.009	2.82	.044	
06	.01	.46	.011	3.18	.049	
07	.01	.23	.004	1.93	.033	
08	.01	.07	.001	1.37	.018	
09	.01	.14	.008	2.48	.031	
10	.01	.40	.005	1.94	.045	
11	.01	.10	.009	1.16	.019	
12	.01	.11	.005	2.01	.030	
13	.01	.08	.005	2.37	.036	
14	.01	.24	.006	2.60	.063	
15	.01	.18	.005	2.20	.048	
16	.01	.08	.002	1.58	.024	
17	.01	.14	.002	1.52	.023	
96-12						
87712	.01	.10	.011	3.29	.025	
13	.01	.16	.005	4.03	.034	
14	.01	.15	.007	3.00	.032	
15	.01	.15	.010	4.08	.040	
16	.01	.11	.004	5.18	.049	
17	.01	.15	.005	5.47	.050	
18	.01	.21	.013	5.21	.053	
19	.01	.24	.017	3.72	.055	
20	.01	.20	.021	2.42	.032	
21	.01	.14	.005	1.65	.025	
22	.01	.15	.014	1.62	.021	
23	.01	.31	.014	2.57	.041	
24	.01	.09	.004	1.39	.025	
25	.01	.14	.006	2.20	.028	

cc: Assay Lab.

Assayer D.A.W.

96-14

rm. No. Mill - 1

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date July 19 19 96

Sample No.	% Ox. Cu.	Total Cu.	% MoS₂	A.S. Fe	oz/Ton Ag	
87726	<.01	.08	.007	1.30	<.022	
27		.18	<.021	2.09	<.033	
28		.12	<.011	1.85	<.027	
29		.15	<.008	2.25	<.030	
30		.10	<.004	2.19	<.030	
31		.11	<.003	1.71	<.036	
32		.13	<.006	2.10	<.033	
33		.10	<.006	3.35	<.029	
34		.21	<.006	2.05	<.030	
35		.12	<.004	2.13	<.025	
36		.22	<.006	2.60	<.030	
37		.19	<.002	2.43	<.025	
38		.08	<.003	1.27	<.025	
39		.14	<.007	1.74	<.026	
40		.12	<.010	2.37	<.025	
41		.06	<.003	1.90	<.021	
42		.07	<.003	1.71	<.019	
43		.15	<.008	3.92	<.035	
44		.24	<.006	2.12	<.024	
45	↓	.12	<.008	1.83	<.016	
87891	.05	.10	<.006	1.55	<.014	
92	.04	.11	<.005	.79	<.017	
93	.01	.23	<.009	1.85	<.025	
94	.01	.39	<.020	2.51	<.036	
95	.03	.57	<.021	2.96	<.042	
96	<.01	.34	<.013	2.09	<.033	
						96-14
87921	<.01	.08	<.004	4.85	<.037	↓
22	<.01	.14	<.004	3.51	<.030	

cc: Assay Lab.

Form. No. Mill - 1

96-14

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date ..... 23 JULY, 1996.

Sample No.	% Ox. Cu.	Total Cu.	% MoS2	% A.S. Fe	oz./T. Ag
96-14					
87823	.02	.16	.005	3.55	.032
24	.01	.12	.005	2.72	.027
25	.01	.20	.007	3.16	.035
26	<.01	.15	.009	3.41	.034
27	<.01	.09	.007	2.59	.029
28	<.01	.11	.005	3.23	.038
29	<.01	.11	.011	3.31	.032
30	<.01	.09	.006	3.41	.029
31	<.01	.11	.007	3.69	.032
32	<.01	.14	.010	3.50	.033
33	.01	.26	.013	3.82	.040
34	.01	.29	.023	3.89	.041
35	.01	.40	.016	3.21	.047
36	.01	.25	.023	2.05	.033
37	<.01	.23	.022	1.70	.030
38	<.01	.17	.009	0.96	.034
39	<.01	.16	.024	0.81	.029
40	<.01	.19	.022	1.61	.054
41	<.01	.14	.022	0.77	.020
42	<.01	.23	.022	0.93	.024
43	<.01	.12	.013	0.65	.018
44	<.01	.07	.007	1.81	.024
45	<.01	.13	.012	3.53	.033
46	<.01	.29	.011	2.80	.038
47	<.01	.22	.005	2.57	.041
48	<.01	.15	.006	1.74	.023
49	<.01	.17	.009	1.68	.023
50	<.01	.13	.005	2.24	.028

96-14

cc: Assay Lab.

Assayer ..D.A.W.....

Form. No. Mill - 1

96-14

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

Explorations - 96-14 (2)

Date 30 [illegible], 19....

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	A. S. Fe	oz./T. Ag	96-14
27251	<.01	.13	.008	2.62	.026	
52	<.01	.22	.009	2.48	.025	
53	<.01	.13	.004	2.04	.017	
54	<.01	.29	.011	2.86	.029	
55	<.01	.30	.009	2.35	.029	
56	<.01	.30	.023	1.97	.028	
57	<.01	.35	.012	2.02	.033	
58	<.01	.30	.016	2.08	.026	
59	<.01	.36	.012	2.68	.033	
60	<.01	.25	.014	2.29	.025	
61	<.01	.14	.020	2.19	.023	
63	<.01	.24	.019	3.16	.048	
62	<.01	.21	.011	2.85	.035	
64	<.01	.32	.029	2.03	.027	
65	<.01	.28	.020	2.21	.025	
66	<.01	.33	.019	2.00	.026	
67	<.01	.29	.018	2.23	.026	
68	.01	.31	.014	2.27	.029	
69	<.01	.21	.011	2.00	.021	
70	<.01	.27	.020	2.67	.028	
71	<.01	.20	.021	2.44	.044	
72	<.01	.15	.008	2.55	.023	
73	<.01	.37	.039	2.97	.057	
74	<.01	.22	.008	1.84	.056	
75	.01	.36	.029	1.46	.035	
76	<.01	.19	.012	0.84	.022	
77	<.01	.11	.013	0.70	.017	
78	<.01	.11	.026	0.46	.019	

cc: Assay Lab.

Assayer .....

Form. No. Mill - 1

96-14

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date ..... 29 ... JULY ., 19. 96.

Sample No.	% Ox. Cu.	Total Cu.	% MoS₂	% A.S. Fe	oz./T. Ag	
96-14						96-14
87879	<.01	.06	.016	0.40	.015	
80	.01	.05	.008	0.42	.013	
81	<.01	.13	.023	0.46	.018	
82	<.01	.19	.020	1.36	.021	
83	<.01	.32	.016	2.06	.033	
84	<.01	.41	.029	2.21	.033	
85	<.01	.26	.010	1.84	.027	
86	<.01	.18	.013	2.32	.028	
96-16						
87897	.01	.25	.018	2.29	.027	
98	.08	.37	.016	2.32	.031	
99	.04	.29	.017	2.78	.035	
87900	<.01	.32	.017	3.23	.043	
01	<.01	.22	.011	2.49	.031	
02	<.01	.09	.007	2.37	.024	
03	<.01	.17	.021	2.00	.026	
04	<.01	.18	.021	2.11	.024	
05	<.01	.08	.006	1.49	.016	
06	<.01	.10	.008	2.15	.024	
07	<.01	.15	.007	3.02	.031	
08	<.01	.18	.014	2.32	.027	
09	<.01	.16	.009	3.18	.035	
10	<.01	.10	.003	2.01	.017	
11	<.01	.12	.002	1.75	.021	
12	<.01	.08	.005	2.06	.017	
13	<.01	.14	.004	2.09	.019	
14	<.01	.17	.007	1.99	.021	
15	<.01	.18	.010	2.86	.028	
16	<.01	.34	.015	3.48	.046	

cc: Assay Lab.

Assayer .. D.A.W. .....

Form. No. Mill - 1

96-15

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION 96-16 (4) Date Feb 26, 19....

Sample No.	% Cx. Cu.	Total Cu.	% MoS_2	% A.S. Fe	oz./T. Ag	
96-16 37945	<.01	.22	.015	2.53	.029	
46	<.01	.19	.010	3.13	.032	
47	<.01	.26	.015	2.94	.035	
48	<.01	.21	.012	2.83	.033	
49	<.01	.36	.012	3.23	.037	
50	<.01	.29	.023	2.60	.032	
51	<.01	.27	.048	1.90	.028	
52	<.01	.23	.014	1.82	.026	
53	<.01	.28	.024	3.10	.041	
54	<.01	.29	.028	2.11	.033	
55	<.01	.28	.023	2.04	.036	
56	<.01	.39	.018	2.07	.044	
57	<.01	.47	.029	2.27	.045	
58	<.01	.27	.015	1.68	.038	
EOH 96-16 37959	<.01	.40	.016	1.77	.034	
START 96-15 37960	.03	.28	.006	6.46	.041	96-15
62	.04	.28	.005	6.16	.040	
63	.05	.28	.005	4.17	.035	
64	.02	.40	.006	5.36	.045	
65	.01	.27	.017	3.21	.034	
66	.01	.27	.003	3.88	.039	
67	<.01	.23	.007	4.39	.041	
68	<.01	.17	.004	5.01	.037	
69	.01	.32	.008	14.3	.047	
70	<.01	.26	.007	12.3	.047	
71	<.01	.22	.008	11.3	.047	
72	.01	.51	.016	9.77	.071	
73	.01	1.19	.011	8.74	.101	

cc: Assay Lab.

Assayer .....

Form. No. Mill - 1

96-15

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date July 31 19 96

Sample No.	% Ox. Cu.	Total Cu.	% MoS₂	% A.S Fe	oz./T. Ag	96-15
87974	<.01	.28	.014	3.91	.058	–
75		.23	.012	4.05	.050	–
76	–	.16	.004	4.77	.042	–
77		.14	.006	3.02	.044	–
78		.25	.011	3.80	.046	–
79		.24	.010	2.97	.050	–
80		.12	.011	2.87	.036	–
81		.20	.013	2.34	.042	–
82		.15	.007	2.03	.036	–
83		.16	.008	2.17	.039	–
84		.13	.007	2.23	.041	–
85	–	.34	.011	3.50	.058	–
86		.26	.007	2.79	.053	–
87		.17	.004	4.56	.061	–
88		.33	.007	4.95	.074	–
89	–	.23	.008	3.43	.058	–
90		.14	.016	2.00	.036	–
91		.09	.007	2.02	.026	–
92		.14	.010	2.59	.035	–
93		.11	.009	2.61	.033	–
94	–	.13	.007	3.26	.049	–
95		.09	.005	2.33	.038	–
96		.09	.005	2.35	.034	–
97		.09	.006	2.90	.030	–
98	–	.10	.010	3.11	.044	–
99		.10	.010	4.21	.046	–
88000		.12	.004	2.45	.051	–
01		.08	.004	1.66	.037	–

cc: Assay Lab

Assayer JS

Form. No. Mill - 1

96-15

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date Aug 01 96

Sample No.	% Ox. Cu.	Total Cu.	% MoS₂	% A.S. Fe	oz./T. Ag	96-15
88002	<.01	.07	.003	1.73	.019	
03	<.01	.07	.004	1.74	.018	
04	<.01	.07	.004	2.73	.012	
05	<.01	.07	.004	2.26	.015	
06	<.01	.07	.003	1.85	.009	
07	<.01	.06	.005	1.67	.008	
08	<.01	.06	.003	2.31	.015	
09	<.01	.08	.001	2.58	.013	
10	<.01	.10	.004	1.39	.008	
11	<.01	.06	.005	1.42	.009	
12	<.01	.05	.005	1.94	.008	

cc: Assay Lab.

Assayer

rm. No. Mill - 1

96-16

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date July 19 19 96

Sample No.	% Ox. Cu.	Total Cu.	% MoS₂	A.S. Fe	oz/Ton Ag	
87726	<.01	.08	.007	1.30	<.022	
27		.18	<.021	2.05	<.033	
28		.12	<.011	1.85	<.027	
29		.15	<.008	2.25	<.030	
30		.10	<.004	2.19	<.030	
31		<.11	<.003	1.71	<.030	
32		<.13	<.006	2.10	<.033	
33		.10	<.006	3.35	<.029	
34		<.21	<.006	2.05	<.030	
35		.12	<.004	2.13	<.025	
36		<.22	<.006	2.60	<.030	
37		.19	<.002	2.43	<.025	
38		.08	.003	1.27	<.025	
39		<.14	<.007	1.74	<.026	
40		<.12	<.010	2.37	<.025	
41		.06	<.003	1.90	<.021	
42		<.07	<.003	1.71	<.019	
43		.15	<.008	3.92	<.035	
44		<.24	<.006	2.12	<.024	
45		<.12	<.008	1.83	<.016	
						96-16
87891	.05	.10	<.006	1.55	<.014	
92	.04	.11	<.005	.79	<.017	
93	.01	<.23	<.009	1.85	<.025	
94	.01	.39	.020	2.51	<.036	
95	.03	.57	<.021	2.96	<.042	
96	<.01	.34	<.013	2.09	<.033	
87821	<.01	.08	<.004	4.85	<.037	
22	<.01	.14	.004	3.51	.030	

cc: Assay Lab.

Form. No. Mill - 1

96-16

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION

Date ..... 29...JULY..., 19.96

Sample No.	% Ox. Cu.	Total Cu.	% MoS₂	% A.S. Fe	oz/T. Ag	
96-14						
87879	<.01	.06	.016	0.40	.015	
80	.01	.05	.008	0.42	.013	
81	<.01	.13	.023	0.46	.018	
82	<.01	.19	.020	1.36	.021	
83	<.01	.32	.016	2.06	.033	
84	<.01	.41	.029	2.21	.033	
85	<.01	.26	.010	1.84	.027	
86	<.01	.18	.013	2.32	.028	
96-16						96-16
87897	.01	.25	.018	2.29	.027	
98	.08	.37	.016	2.32	.031	
99	.04	.29	.017	2.78	.035	
87900	<.01	.32	.017	3.23	.043	
01	<.01	.22	.011	2.49	.031	
02	<.01	.09	.007	2.37	.024	
03	<.01	.17	.021	2.00	.026	
04	<.01	.18	.021	2.11	.024	
05	<.01	.08	.006	1.49	.016	
06	<.01	.10	.008	2.15	.024	
07	<.01	.15	.007	3.02	.031	
08	<.01	.18	.014	2.32	.027	
09	<.01	.16	.009	3.18	.035	
10	<.01	.10	.003	2.01	.017	
11	<.01	.12	.002	1.75	.021	
12	<.01	.08	.005	2.06	.017	
13	<.01	.14	.004	2.09	.019	
14	<.01	.17	.007	1.99	.021	
15	<.01	.18	.010	2.86	.028	
16	<.01	.34	.015	3.48	.046	

cc: Assay Lab.

Assayer D.A.L.

Form. No. Mill - 1

96-16

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION - 96-16

Date 30 July 96 19

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% A.S. Fe	oz./T. Ag	96-16
87917	<.01	.24	.018	3.85	.056	
18	<.01	.20	.013	1.79	.034	
19	<.01	.06	.006	1.24	.024	
20	<.01	.08	.003	1.44	.034	
21	<.01	.10	.004	1.76	.027	
22	<.01	.06	.003	1.25	.023	
23	<.01	.10	.005	1.52	.024	
24	<.01	.09	.006	1.29	.023	
25	<.01	.18	.013	1.82	.035	
26	<.01	.08	.006	1.61	.026	
27	<.01	.18	.022	1.59	.028	
28	<.01	.13	.010	1.43	.024	
29	<.01	.11	.017	1.61	.022	
30	<.01	.12	.022	1.81	.022	
31	<.01	.15	.005	1.90	.033	
32	<.01	.16	.008	2.32	.038	
33	<.01	.18	.012	2.99	.048	
34	<.01	.19	.010	3.44	.055	
35	<.01	.17	.008	3.32	.050	
36	<.01	.38	.010	3.85	.063	
37	<.01	.17	.019	1.96	.035	
38	<.01	.40	.011	2.62	.042	
39	<.01	.20	.011	2.13	.029	
40	<.01	.31	.059	2.06	.035	
41	<.01	.23	.012	2.23	.031	
42	<.01	.15	.017	1.85	.026	
43	<.01	.13	.011	1.49	.027	
44	<.01	.18	.011	2.15	.029	

cc: Assay Lab.

Assayer M.C. / D.A.W.

Form. No. Mill - 1

96-16

GIBRALTAR MINES LIMITED

ASSAY CERTIFICATE

EXPLORATION - 96-16

(7)

Date ..... 19.....

Sample No.	% Ox. Cu.	Total Cu.	% MoS_2	% A.S. Fe	oz./T. Ag	96-16
96-16 87945	<.01	.22	.015	2.53	.029	
46	<.01	.19	.010	3.13	.032	
47	<.01	.26	.015	2.94	.035	
48	<.01	.21	.012	2.83	.033	
49	<.01	.36	.012	3.23	.037	
50	<.01	.29	.023	2.60	.032	
51	<.01	.27	.048	1.90	.028	
52	<.01	.23	.014	1.82	.026	
53	<.01	.28	.024	3.10	.041	
54	<.01	.29	.028	2.11	.033	
55	<.01	.26	.023	2.04	.036	
56	<.01	.39	.018	2.07	.044	
57	<.01	.47	.029	2.27	.045	
58	<.01	.27	.015	1.68	.038	
96-16 87959 START	<.01	.40	.016	1.77	.034	
60	.03	.28	.006	6.46	.041	
61	.04	.28	.005	6.16	.040	
62	.05	.28	.005	4.17	.035	
63	.02	.40	.006	5.36	.045	
64	.01	.27	.017	3.21	.034	
65	.01	.27	.003	3.88	.039	
66	<.01	.23	.007	4.30	.041	
67	<.01	.17	.004	5.01	.037	
68	.01	.32	.008	14.3	.047	
70	<.01	.26	.007	12.3	.047	
71	<.01	.23	.008	11.3	.047	
72	.01	.51	.016	9.77	.071	
73	.01	1.19	.011	8.74	.101	

cc: Assay Lab.

Assayer