DIAMOND DRILL REPORT

ON THE

PURPLE GROUP

Cariboo Mining Division

93 B/9W

(Latitude 52 53', Longitude 122 19')

OWNER AND OPERATOR

GIBRALTAR MINES LIMITED

McLEESE LAKE, B.C.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,452

AUTHOR: G. D. Bysouth

Submitted: June 06, 1984

TABLE OF CONTENTS

		Page
1.0	INTRODUCTION	1
2.0	MINERAL CLAIMS	2
3.0	DRILL PROGRAM	3
	3.1 Objective	3
	3.2 Results and Interpretation	3
4.0	STATEMENT OF EXPENDITURES	5
5.0	CONCLUSIONS	6

FIGURES

Figure 1	Area Location Map	(In Text)
Figure 2	Purple Group Claim and Drill Hole Location Map	(In Pocket)

APPENDICES

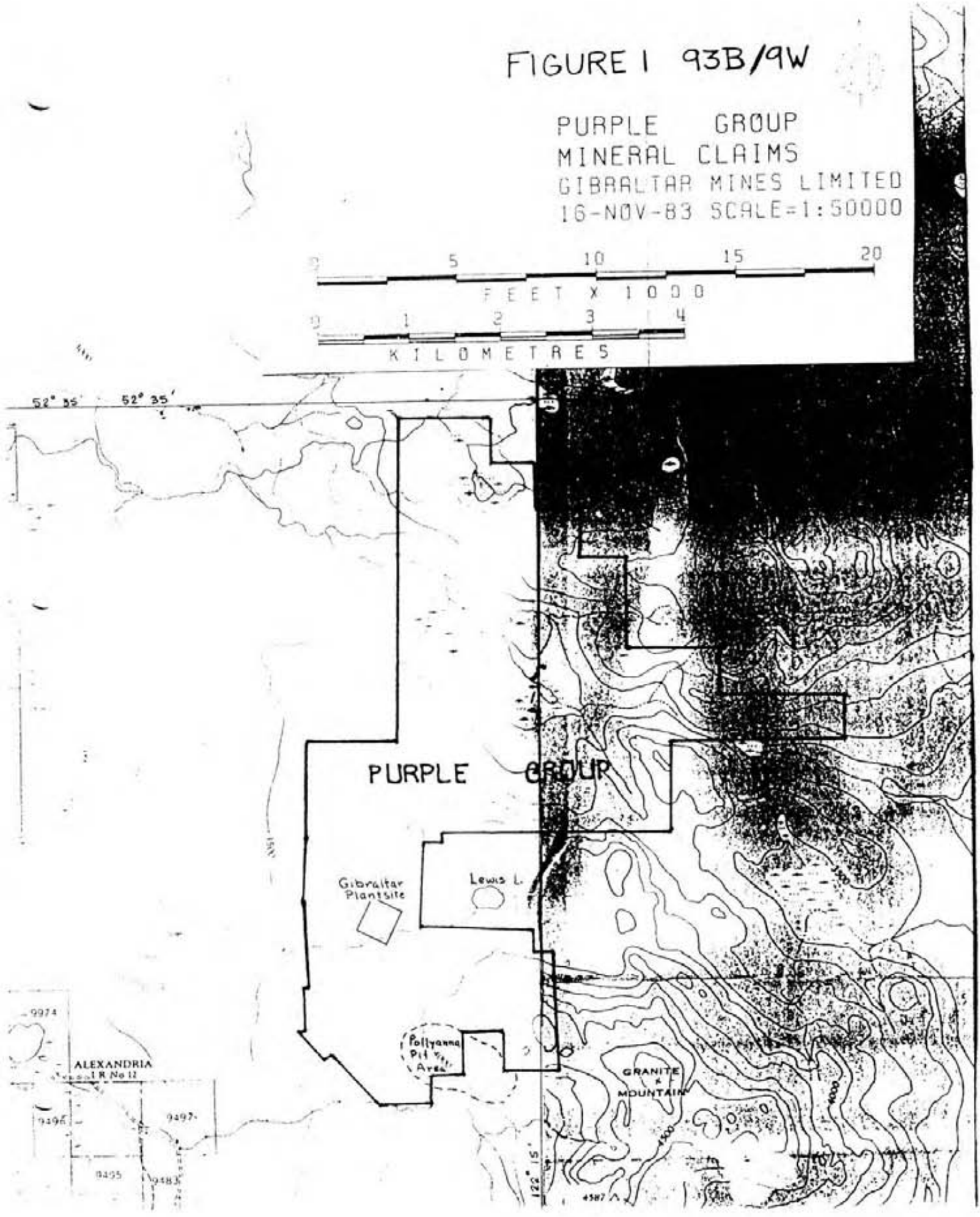
I.	Statement of Qualifications	7
II.	List of Abbreviations	8
III.	Drill Log: Hole 84-07	(In Pocket)
	Drill Log: Hole 84-08	(In Pocket)
	Drill Log: Hole 84-09	(In Pocket)
	Drill Log: Hole 84-10	(In Pocket)

1.0 INTRODUCTION

The Purple Group forms part of the Gibraltar Mines permanent property and includes a large portion of the tailings pond. The general location of the group in shown in Figure 1.

This report is concerned with the southern end of the Group which extends into the Pollyanna orebody. Here, four vertical N.Q. diamond drill holes were drilled during the period May 17 - May 29, 1984. Two of the holes were located west of the Pollyanna pit in order to test for a westward continuation of the main ore zone. The other two were located within the pit in order to test the grade and continuity of ore below the present pit. A total 1894 - feet (577.29 m) of drilling was completed. The contractor was G. & D. Drilling of 5425 Dallas Drive, Kamloops, B.C. Core is stored at the Gibraltar Mines plant site.

FIGURE 1 93B/9W



2.0 MINERAL CLAIMS

Claims and leases of the Purple Group are shown in Figure 2. All of the claims belong to Gibraltar Mines Limited. Pertinent information is tabulated below.

GIBRALTAR MINES LIMITED
14-NOV-83

CLAIM GROUPS

PURPLE GROUP MINERAL CLAIMS

NAME	RECORDED DDMMYY	RECORD NUMBER	UNITS	MINERAL LEASE
MY 5	120678	01710	10	
MY 6	010578	30675	4	
MY 7	010578	30676	5	
MY 12	100680	01669	14	
MY 13	100680	01670	6	
MY 14	100680	01671	7	
MY 15	100680	01672	6	
MY 16	100680	01673	4	
MY 17	100680	01674	2	
MY 18	241100	03025	1	
MY 19	240381	03240	2	
GG #85	250855	30669	1	3598 M36
GG 40	280864	28881	1	3598 M36
GG 80	220465	29747	1	3598 M36
GG 82	220465	29749	1	3598 M36
GG 86A FR	091266	39653	1	3598 M36
GIB #8	200571	62411	1	3598 M36
GG # 2	281064	29234	1	3599 M37
GG # 4	281064	29236	1	3599 M37
GG # 6	281064	29238	1	3599 M37
GG # 5	281064	29237	1	3600 M38
GG # 7	281064	29239	1	3600 M38
GG # 8	281064	29240	1	3600 M38
GG #16	281064	29248	1	3600 M38
GG # 1	281064	29233	1	4136 M55
GG # 3	281064	29235	1	4136 M55
GG 30	280864	28871	1	4136 M55
GG 41	280864	28882	1	4136 M55
GG #11	281064	29243	1	4137 M56
GG #12	281064	29244	1	4137 M56
GG #13	281064	29245	1	4137 M56
GG #14	281064	29246	1	4137 M56
GG #21	281064	29253	1	4137 M56
GG #24	281064	29256	1	4137 M56
GG 31	280864	28872	1	4137 M56
RUM #41 FR	200470	57295	1	4137 M56
GG #23	281064	29255	1	4138 M57
GG #25	281064	29257	1	4138 M57
GG #26	281064	29258	1	4138 M57
GG #27	281064	29259	1	4138 M57
GG #28	281064	29260	1	4138 M57

TOTAL UNITS 89

3.0 DRILL PROGRAM

3.1 OBJECTIVE

The purpose of this drill holes 84-07 and 84-08 was to test for a westerly continuation of the main Pollyanna ore zone which is presently exposed in the Pollyanna pit to the east. The purpose of drill holes 84-09 and 84-10 was to test deep projections of the main ore beneath the present pit.

3.2 RESULTS AND INTERPRETATION

Drill hole locations are shown in Figure 2. In all holes, the main host rock was the Mine Phase Quartz Diorite which consisted of about 45% pale green saussaritized plagioclase, 15% dark green chloritized mafics, and 30% medium grey quartz. In holes 84-09 and 84-10, the Granite Mtn. Phase contact was intersected. This rock type, which is interpreted to be a Trondhjemite, is the principle phase of the Granite Mtn. pluton and is believed to underlie the Mine Phase close to all the Gibraltar ore zones. It consists of about 45% quartz, 10% chloritized mafics and 40% saussaritized plagioclase. Leucocratic zones were noted in all holes - these rocks usually consist only of quartz and pale grey feldspar but in these holes, the leucocratic zones also included hybrid - like material resembling either Mine Phase, or more commonly, Granite Mtn. Phase. Mineralization encountered was pyrite, chalcopyrite and minor molybdenite, associated with various quartz-chlorite-sericite-epidote alteration assemblages in a complex system of veins, shears and shear zones.

Hole 84-07 was cased to 12-feet. From 12-feet to 40-feet a barren leach cap was intersected consisting of vuggy limonite-stained core. From 40- to 200-feet a limonite zone was recognized by an abundance of limonite, minor malachite and partially leached sulfides. A zone of primary mineralization was noted from 200-feet to the end of the hole at 480-feet. No significant zones of ore grade mineralization were recognized, and at this time the core has not been assayed. Of interest is the large amount of leucocratic material insected in this hole and the complex hybrid-like nature of this rock from 330- to 406-feet.

Hole 84-08 was cased to 12-feet. From 12- to 145-feet a leach cap similiar to that of 84-07 was intersected and from 145- to 200-feet, a limonite zone, also similiar to 84-07, was encountered. A low sulfide primary zone occurred from 200-feet to the end of the hole at 401-feet, and contained .32% Cu and .15% MoS2 over 100-feet from 320- to 420-feet; this was the only significant ore intersection in the hole. Molybdenite values appear anomalously high relative to copper below 90-feet. The very high molybdenite assays from 330- to 350-feet were due to a single steep quartz-molybdenite vein. The Mine Phase host rock below 145-feet appears to be finer grained and higher in quartz than normal - it could be a different rock type, possibly related to the Granite Mtn. Phase.

Hole 84-09 was collared on the 3815 Bench of the Pollyanna pit and cased to 40-feet. Mineralization was essentially primary. From 40- to 200-feet a pyrite zone was intersected below which the concentration of chalcopyrite appearedto show a significant increase. No assays are available at this time but visual estimates, which usually tend to be conservative, suggest that an ore zone has been intersected from about

3.2 RESULTS AND INTERPRETATION (continued)

190-feet to 350-feet. The Granite Mtn. Phase contact was intersected at 425-feet. A three-foot leucocratic zone occurred at the contact.

Hole 84-10 intersected similiar mineralogy and geology as that of 84-09. It was collared on blasted rock of the 3815 Bench and cased to 64-feet. The mineralization was primary. A weak pyrite zone was intersected from 64-feet to 240-feet and below this, the copper grade appeared to increase. Available assays indicate the pyrite contains mainly waste. The ore zone according to visual estimates appears to start at 240-feet and extend to about 390-feet. The Granite Mtn. Phase Quartz Diorite was intersected at 363-feet. The contact zone appeared to be marked by a ten-foot zone of leucocratic material containing abundant clots of epidote.

4.0 STATEMENT OF EXPENDITURES

May 1984 Diamond Drilling, Purple Group

(a) Drilling costs

84-07	480' @ $13.50/ft.	$6480.00	
84-08	461' @ $13.50/ft.	$6223.50	
84-09	450' @ $13.50/ft.	$6075.00	
81-10	505 @ $13.50/ft.	$6790.50	

			$25569.00

(b) Vehicle

4X4 1980 Suburban, May 4, 17-19,23-29 11 days @ $20/day	$ 220.00

(c) Assay Costs

45 Cu - MoS2 assays @ 4.40/assay	$ 198.00

(d) Supplies

Core boxes, tags, bags, logs etc. 95 boxes @ $6/box = 570 + 60	$ 630.00

(e) Personnel Costs

(1) Core Logging and Supervision
G. Bysouth May 23-25, 28-30
June 1, 4,6
80 hrs @ $31.25 $2500.00

(2) Field Work and Sample Preparation
E. Oliver May 4, 17-18, 22-25, 29-31
June 1, 4-6
112 hrs @ 20.00 $2240.00

$ 4740.00

TOTAL DRILLING COST $31,357.00

JOB

5.0 CONCLUSIONS

Drill holes 84-07 and 84-08 did not intersect any westerly extensions of the main Pollyanna ore zone but rather, have raised the the possibility of another plutonic rock type being present west of Pollyanna. Hole 84-08 suggests this environment might also contain more molybdenite than normal for the mine area. More drilling is required.

Drill holes 84-09 and 84-10 both intersected a significant chalcopyrite zone directly beneath a weak to moderate pyrite zone. This sulfide mineralization appears to overlie the Granite Mtn. Phase contact zone. More drilling is required to delineate this contact and investigate its relationship to sulfide zoning and grade distribution.

Submitted by,

G. D. Bysouth

G. D. Bysouth
Senior Geologist

GIBRALTAR MINES LIMITED

APPENDIX I

STATEMENT OF QUALIFICATIONS

I, Garry D. Bysouth, of Gibraltar Mines Limited, McLeese Lake, British Columbia, do certify that:

1. I am a geologist.

2. I am a graduate of the University of British Columbia, with a B.Sc. degree in geology in 1966.

3. From 1966 to the present I have been engaged in mining and exploration geology in British Columbia.

4. I personally supervised this drill program, logged the core and assessed the results.

Garry D. Bysouth

Garry D. Bysouth

APPENDIX II

ABBREVIATIONS USED IN DRILL LOGS

cal.....calcite

carb.....carbonate

chl.....chlorite

cp.....chalcopyrite

cren.....crenulated

dissem.....disseminated

ep.....epidote

foln.....foliation

grn.....grained

lim.....limonite

mal.....malachite

mag.....magnetite

py.....pyrite

QSP.....quartz-sericite-py

qtz.....quartz

rx.....rock

ser.....sericite

str.....strong

stkwk.....stockwork

wk.....weak

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-8
SHEET No. 1 of 8

LOCATION: POLLYANNA - WEST WALL	BEARING: —	LATITUDE: 50096.48	CORE SIZE: N.Q.W	LOGGED BY: G.D.B
DATE COLLARED: May 23, 1984	LENGTH: 461'	DEPARTURE: 50165.23	SCALE OF LOG: 1" = 10'	DATE: May 25, 1984
DATE COMPLETED: May 25, 1984	DIP: -90°	ELEVATION: 3910.01'	REMARKS: zones of [illegible] hematite staining occurs throughout hole ("red" plag.?)	

BOTTOM DEPTHS	
LEACH CAP	14.5'
LIM. ZONE	200'
SUPERGENE	—

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	REMARKS	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
Casing To 12'								0, 10, 20, 30, 40, 50, 60, 70, 80, 90										
12'								0, 10			12							
MINE PHASE QUARTZ	80 WK		20		50×2+60 45×2+60+30×2 50×3 50×5	1/8+1/10×2 1/10×5 1"+2"×2 1/8-1/10×5	qtz-chl-lim qtz-chl-lim qtz-chl-lim (mal)×3 qtz-chl-lim×5	20, 30, 40, 50, 60, 70, 80, 90	<.5		17	80	27	33601	.17 / .140x	.020		.05
DIORITE 30% qtz 45% saus plag. 20% chl. sl. finer grn	80 WK		30		5-10 70+45+5 45×2 45-5 45	1/2 1/5×3 1/8×2 2" 1/10	qtz-lim qtz-lim + qtz-chl-lim×5 qtz-lim ×2 qtz-chl-vug (mal) qtz	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		24 29½	95 95	33	33602	.16 / .130x	.006		.08
than normal but still med grn ∴ saus alt'n phase (12' - 124')	ND		40		70 5? 30 45 50 35+30 70	7" 6" 1/10 1/4 1/5 1/4×2 1/4	qtz-chl (ser) ep zone qtz-chl-ep (vug) qtz-lim qtz-lim qtz-chl (mal) qtz-lim ×2 qtz-lim-mal	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		33 37 41	80 80 90	27	33603	.14 / .120x	.006		.12
	ND		50		60 70×2 [illegible]×5 60 50 30	2" 1/10×2 hlen×5 1/2 1/8 1/8	qtz-chl qtz-chl-ep-mal lim×5 qtz-lim chl qtz-chl-lim	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		46½ 50	85 80	10	33604	.16 / .130x	.006		.10

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12452

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 34-8
SHEET No. 2 of 3

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Foliage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blown	Estimated Core Recovery %	R.Q.D.	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	ND		60		5 45 45 5	20" 1/2 1/10 12"	qq-hem-lim qtz qq-lim qq-bx-lim	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		55 63	30 35	13	33605	.06 / .04ox	.004		.05
	ND		70		70+5 5-40	1/8 x 2 7'	qtz-chl-mal-lim + qq-mal qq-bx-lim-lost core	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		64 68	75 55	3	33606	.10 / .08ox	.004		.10
	ND		80		30 10 45 10-30 80 30	10" 1/20 1/8 3' 2" 10"	qq-bx-lim qq-lim (mal) qtz qq-bx-lim-hem ((mal)) qtz (mal) qq-bx-lim	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		71½ 74 79	85 45 80	7	33607	.11 / .10ox	.005		.12
Fault Zone	ND		90		?	6"	qtz-MnO2 (mal)	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		83½ 87	50 50	10	33608	.15 / .14ox	.012		.12
- the gougy broken zones above this fault do not appear to be a single large fault, but rather a series of steep joints and small faults.	ND		100		? 45 70 40-30x5 45 60	5½' 2" 1/4 hlex5 3" 2"	"solid" qq ((mal)) qq-qtz-lim-mal qtz-lim lim-mal x 5 qtz-chl-mal qtz-chl-vug-mal	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		96	45	20	33609	.40 / .59	.018		.13
Fault	ND		110		60 45x2+40 45x5 50-60x8 30? 45?	2½ 1/10x5 hlex5 hlex8 5' 12"	qtz-lim-mal qtz-lim-mal x 3 lim-mal x 5 lim x 8 bx-qq-lim-hem qtz-ser-lim zone	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		106 109½	95 90	33	33610	.16 / .11	.020		.12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 34-3
SHEET No. 3 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration / Footage / Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Diesel	Estimated Core Recovery %	P.O.D.	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	80 WK	120	80 45-80 x 12 60 20 x 3 45 x 3 45 x 35 50 60 x 3	1/10 1/20-1/10 x 12 1/2 hle x 3 1/10 x 3 1/4 x 1/2 1/2 1/20 x 2	qtz-lim qtz-chl-ep-lim x 12 qtz-chl-lim lim x 3 qtz-chl-lim x 3 qtz-chl-lim x 2 qtz-lim lim x 2	0 10 20 30 40 50 60 70 80 90	<.5		112 [illegible]	94 90	20	33611	.06 .030x	.020		.10
124' LEUCOCRATIC ZONE	80 WK	130	5 - 40 60 50 70 5 40 40-60 x 8	1/2 - 1/4 1/20 1/5 1/2 2" 1/2 1/20-1/10 x 8	qtz-chl-lim x 2 qtz-cp qtz-chl-vug qtz-lim qtz-lim qtz-lim qtz-chl-lim	0 10 20 30 40 50 60 70 80 90	<.5		123 130	100 95	50	33612	.12 .070x	.022		.08
(124'-145) hybrid-type contact zone and inclusions of hybrid rx - that is, contacts appears to be a mixing of the two rx. types 145	80 WK	140	50 60 x 6 70 70-60 x 10 5 70	2 1/2 1/20-1/4 x 6 1/4 1/20-1/10 x 10 1" 1/8	qtz-mal-lim qtz-chl-lim x 6 qtz-ser-lim qtz-lim x 10 qtz-chl-lim qtz-lim	0 10 20 30 40 50 60 70 80 90	<.5		137	95	33	33613	.09 .060x	.026		.08
MINE PHASE (145 - 309') not a typical mine phase - tends to be finer grn and more "compact" or hard than normal. - hematite staining of plag. common throughout -	80 Mod	150	60 5 20 x 3 40 60+50+45 70 45 40 5x2+45x2	1/4 2" hle x 3 1/8 1/10 x 2 1/2 1/2 1/5 hle x 4	qtz-chl-lim qtz-chl-lim lim x 3 qtz-chl-lim qtz-chl-lim-py (cp) x 3 qtz-chl-lim-mal qtz-chl-lim-mal qtz-chl-ser-lim-mal lim x 4	0 10 20 30 40 50 60 70 80 90	<.5		147 151	93 90	23	33614	.22 .120x	.038		.18
	80 Mod	160	70+45+50 30 35 x 3 10 60 80 x 4 45 40	1/10 x 2 1/8 1/20 x 3 6" 1/10 hle x 4 1/8 1/10	qtz-mal x 3 qtz-chl-(cp) mal-MnO2-qq x 3 qtz-ser-lim qtz-cp mal x 4 qtz-chl-py qtz	0 10 20 30 40 50 60 70 80 90	<.5	decrease in the amount of lim. staining from 145' to base of lim. zone	157	95	33	33615	.15 .090x	.020		.15
	?	170	60 10 50 x 2 70 x 5 30+20 80 5 5+60	1/5 5 1/10 x 2 hle x 5 1/4 x 2 1/4 1/4 1/20 x 2	qtz-chl-lim-cp qtz-chl-ser-lim qtz-chl-(cp) x 2 lim x 5 qtz-lim x 2 qtz-chl qtz-lim-py lim x 2	0 10 20 30 40 50 60 70 80 90	<.5		167	90	33	33616	.11 .040x	.024		.12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-8
SHEET No. 4 of 3

ROCK TYPES & ALTERATION			∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blows	Estimated Core Recovery %	P.Q.D.	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
			70 WK		180		20 30 40 50+30 30	1" 1/10 1/8 1/8x2 1/10	qtz-carb-mal ((cp)) MoO2 qtz-cp-py qtz-cp qtz ((mal)) qtz-cp-lim	0 10 20 30 40 50 60 70 80 90	<.5		177	98	53	33617	.10 .030x	.022		.10
			ND		190		70 45 5 10	1/10 1" 2' 1'	qtz-ser-lim qtz qq-bx-hem qq-bx-hem	0 10 20 30 40 50 60 70 80 90	<.5		184	95 92	17	33619	.07 .010x	.026		.06
		rx change ??	ND		200		20 70 70 60x3	1" 1/8 1/10 1/10x3	qq-hem qtz-cp qtz-chl (cp) qtz-chl-cpx3	0 10 20 30 40 50 60 70 80 90	<.5		191 197	95	60	33619	.16 .010x	.032		.12
		host rock tends to be finer grn than normal - slight reduction in mafics (to 20%) and sl.	ND		210		5 70 45 20 70 80	1/4 hle 1/10 1/10 1/10 1/8+1/4	qq cp qtz-chl (cp) qtz-chl (cp) qtz-chl (py) qtz-(py)(cp)x2	0 10 20 30 40 50 60 70 80 90	<.5		207	98 98	33	33620	.17 <.010x	.039		.18
		incr. in qtz (to 40%) - the rx is def. harder and more compact than normal.	ND		220		40 70+60x2 70+30 20 70 40	1" 1/10+1/8x2 1/10x2 1/8 1/20 1/20	qtz-Mo qtz-chl-cp x2 qtz-chl-cp x2 qtz-chl-cp qtz-chl-cp qtz-chl-cp	0 10 20 30 40 50 60 70 80 90	<.5		210½ 217	90	53	33621	.12 <.010x	.038		.20
		(200 - 260')	ND		230		80+60 20 60 60+45 50x2 10 45x2 45x60	1/8+1/10 1/8 1/8 1/10x2 1/6+1/10 1/4 1/8x2 1/10x6	qtz-chl-cp x2 qtz-chl-cp qtz-chl-cp qtz-chl (cp) x2 qtz-chl-cp x2 qtz-chl-py-cp qtz-chl-cp-py x2 qtz-chl-cp x2	0 10 20 30 40 50 60 70 80 90	<.5		227	98	57	33622	.20 <.010x	.030		.30

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-8
SHEET No. 5 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Direct.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
leucocratic zone	ND.	240	45 30 45+40 50+40 70+40	1/8 1/10 1/10x2 1/10x2 1/10x2	qtz-chl-cp qtz-chl-(cp) qtz-chl-(cp)x2 qtz-chl(cp)x2 qtz-chl-(cp)x2		<1.5		237	90 95	33	33623	.10 <.01ox	.028		.15
red hem stained section	N.D	250	40+80 40 60 30 40 x2 70 40 10	1/10 x2 12° 10° 1/4 1/8x2 1" 1/10x2 1"	qtz-chl-(py)(cp) x2 qtz-chl-ser-(cp) zone qtz-chl-ser-carb ((cp)) zone qtz-chl-py (cp) qtz-chl-(cp) x2 qtz qtz-chl-cp x2 qtz		<1.5		244 247	85	33	33624	.16 <.01ox	.024		.18
	ND	260	45 45+30 30-40 x2 5 30 20	1/4 hle x2 1/10 x3 1/10 20° 12°	qtz-chl(cp) hem x2 qtz-chl-(py)(cp) x3 chl-cp qtz-ser-carb-py ((cp)) zone qtz-ser-carb-py((cp)) zone		5.0		257	85	23	33625	.20 <.01ox	.028		.25
leucocratic zone	ND	270	5 45x3 40x2 45 45+40 45	1/4 1/10 x3 1/10x2 1/4 1/8+1/4 1/2	qtz-chl(py) qtz-chl-py x3 qtz-chl-py x2 qtz-chl qtz-chl-py-cp x2 qtz-chl		.5		263½ 269	80 90	30	33626	.13 <.01ox	.024		.15
	ND	280	20 45 5 20 60+85	1/20 1/10 1/10 1/8 1/10x2	hem qtz-chl-py hem-qtz qtz-py-cp qtz-chl-py(cp)x2		.5		274½	90 90	23	33627	.07 <.01ox	.020		.15
	ND	290	15+40+30 5+40 40x2	1/10x3 1/4+1/2 1/10x2	qtz-chl-py x3 (qtz)-chl-cp qtz-chl (py) x2		<.5		281 287	95	10	33628	.14 <.01ox	.022		.12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-8
SHEET No. 6 of 8

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE — REMARKS	Footage Blocks	Estimated Core Recovery %	P O D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	70 WIK		340		70 20 30 40 5 5 10 + 40	10" 1/8 1/4 1/2 hle hle 1/8	qt3-ser qt3-chl-py qt3-chl-carb qt3-chl qt3-chl-cp hem + 16" of broken rx hem + 24" of broken rx qt3-chl (cp) x 2		4.5		315 325 335	95 75	27	33629	.14 <.010X	.022		.10
309'	70 WK		342		5 + 50 15 5 40 + 60	1/10 x 3 1/8-1/2 1/10. 1/10 x 2	qt3-chl (py) qt3-chl (vug) qq-hem qt3-chl (py) x 2		<1.5		305	95 75	30	33630	.14 <.010X	.022		.04
LEUCOCRATIC ZONE (309-326) aquigranular - similar tex. as mine phase but lacking mafics - contact at 309' is sharp with no gradational phase. Contact at 326' is masked by intense ep. alt'n. 316'	ND		320		15-20 x 6 20 5	1/20-1/10 x 6 1/8 1/10	qt3-chl (py) x 6 qt3-chl-carb (py) hem-qq		<1.5		315 325	95	50	33631	.06 <.010X	.024		.06
MINE PHASE (326-461) still not a typical mine phase	ND		330 340		15 x 2 + 5 40 45 35 x 2 40 + 45 45 + 40 70 + 40 5 x 5	1/10 x 5 1/8 1/10 1/10 + 1/8 1/10 x 2 1/8 + 1/10 1/4 + 1/10 1/10 x 3	qq-hem x 3 qt3-chl-(py) qt3-chl-ep qt3-chl-(py) x 2 qt3-chl-py x 2 qt3-chl-cp x 2 qt3-chl-py-cp x 2 qt3-chl-cp x 3		1.0		325 330	93 85	40 20	33632 33633	.12 <.010X .77 <.010X	.024 .110		.08 .35
			350		5 5	4' 1/2	qt3- No (cp) qt3- Mo-cp	broken and lost core - probably not a fault	.5		340 350	80 45	0	33634	.86 .010X	1.210		.25 (.20 MoS_2)

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 24-8
SHEET No. 7 of 8

ROCK TYPES & ALTERATION			∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Foliation Alteration	Foliage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
			ND			360		60 30? 15 30×5	3" 1/4 1/10 hem×5	qg-hem qtz-chl-cp qtz-chl-cp qtz-chl (py)×5	0 10 20 30 40 50 60 70 80 90	.5		356 [illegible]	65 60	30	33635	.15 <.01 ox	.048		.15
			80 Mod			370		30×3 25×2 5 30 30×2 30	2"+6"+8" 1/10×2 1/8 2" 1/4+1/8 3"	qtz-chl-ep zone ×3 qtz-chl-py (cp)×2 qtz-chl-py (cp) qtz-chl-py qtz-carb-hem×2 qg	0 10 20 30 40 50 60 70 80 90	.5		365	10 10	33	33636	.18 <.01 ox	.030		.08
			ND			380		30×4 5+30×3 30 5×2 25 5+30 20×2 30×3	1/10×4 1/20+1/10×3 1/4 1/8×2 2" 1/4+1/8 1/10×2 1/20+1/10+1/4	qtz-chl-py (cp)×4 carb-hem×3 qtz-chl (py) hem qtz-chl-cp×2 qtz-chl-carb-py (cp) qtz-chl-py×2 qtz-chl-py (cp)×2 qtz-chl-py×3	0 10 20 30 40 50 60 70 80 90	1.5		371 376 379	18 98	27	33637	.18 <.01 ox	022		.15
			ND			390		15+30 30×2+40 25+15×2 35 70 30	1/10×2 1/10×3 1/10×3 1/10 6" 1/20	hem-carb×2 qtz-chl-py (cp)×3 qtz-chl-py (cp)×3 hem-carb ep (chl) (qtz) qtz-chl-py	0 10 20 30 40 50 60 70 80 90	1.0		383 387	85 65 90	37	33638	.10 <.01 ox	020		.10
			ND			400		5+35+30 5+45 15+20+30 35+40 25×3 70+5 25×2	1/20×3 1/10+1" 1/10×3 1/10+1/4 1/10×3 1/10×2 1/10×2	qtz-chl-py×3 hem-carb qtz-chl-py×3 qtz-chl-py×3 qtz-chl-py×3 qtz-chl-py-cp×2 qtz-chl-py (cp)×2	0 10 20 30 40 50 60 70 80 90	1.5		392 396	100	67	33639	.10 <.01 ox	.022		.10
		leucocratic zone	ND			410		5 45 40×2 5	1" 4" 1/10×2 1/4 12"	qtz-chl-carb-hem qtz-chl-cp-Mo qtz-chl-py×2 hem-carb-qg qg	0 10 20 30 40 50 60 70 80 90	.5		406 409½	95 90	10	33640	.36 <.01 ox	.030		.25

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-8
SHEET No. 8 of 8

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	GRAPHIC LOG: Footage	GRAPHIC LOG: Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS / LEACH CAP / LIM. ZONE / SUPERBENE / REMARKS	Footage Blocks	Estimated Core Recovery %	P.O.D.	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	ND		420		40 15+70 5 60 15 5	2' 1/4 x 2 1/10 2" 1/2" 1/2"	qq-bx (hem) qtz-chl-py-cp x 2 hem-qq qtz-cp qtz-cp qtz-cp	0 10 20 30 40 50 60 70 80 90	.5		413 415 417	70 85 80 98	13	33641	.38 <.01 ox	.010		.30
	ND		430		45+40 15 40-45+10 5 40+60+20+30 40	1/10 x 2 1/4 1/20 x 10 1/10 1/8 x 4 2"	hem-carb x 2 qtz-chl-py-cp hem-carb x 10 qtz-chl-py (cp) qtz-chl-py (cp) x 4 qq-bx	0 10 20 30 40 50 60 70 80 90	1.0		421 427	95 98	37	33642	.12 <.01 ox	.004		.20
leucocratic zone	ND		440		35 x 2 10 20 20 45 45	1/10 x 2 1/4 1/4 1/2 1/4 1/10	qtz-chl-(py)(Mo)) x 2 hem-carb qtz-py (cp)(Mo) qtz-(py)((cp))((Mo)) qq-hem qq-hem	0 10 20 30 40 50 60 70 80 90	.5		433 436 440	80 90	23	33643	.08 <.01 ox	.034		.15
	ND		450		20 35 20 35 x 2 60 25	1/10 1/8 1/10 1/20 x 2 12" 1/4	qtz-chl-cp hem (carb) qtz-chl-cp qtz-chl-cp x 2 qq-bx qtz-chl (vug)	0 10 20 30 40 50 60 70 80 90	<.5		446	90 75	23	33644	.18 <.01 ox	.006		.18
MAJOR FAULT ZONE 3	ND		460		10 x 3 45 x 4 80 10?	1/8 + 1/10 x 2 1/10 x 4 1/2 5½'	qtz-chl-carb (vug) (cp) x 3 hem-qq-carb qtz qq-bx-hem	0 10 20 30 40 50 60 70 80 90	<.5		452 456 461	60 65	0	33645	.25 .01 ox	.008		.10

G.D. Byrouth

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-7
SHEET No. 1 of 9

LOCATION Pollyanna-West Wall | BEARING — | LATITUDE 50640.41 | CORE SIZE N.Q.-W. | LOGGED BY G.D.B
DATE COLLARED May 17, 1984 | LENGTH 480' | DEPARTURE 50212.05 | SCALE OF LOG 1" = 10' | DATE May 23, 1984
DATE COMPLETED May 23, 1984 | DIP -90° | ELEVATION 3951.78 | REMARKS higher oxidate zone than normal - even in leucocratic zones

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	GRAPHIC LOG: Footage	GRAPHIC LOG: Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP 40' / LIM. ZONE 200' / SUPERGENE — / REMARKS	Footage Blocks	Estimated Gold Assay	Silver	ASSAY RESULTS: Sample	% Cu	% Mo	Au	Estimated
Casing To 12'																		
12' MINE PHASE QUARTZ	ND?		20		10-20 x 30	¼"-thicker	lim - MnO2 (coll) x 30		<.5	limonite not strong - often MnO2 > lim - this may be due to	12 / 16	60 / 45	7					.10
DIORITE 30% qtz 25% chl 40% saus. plag med grn - sl. finer grn than normal. Saus. altn phase (12' - 251') Fault Zone	ND?		30 / 40	15 x 3	5?	10' / ¼" + ½" x 3	broken, hem stained core, minor lim + MnO2 / qtz-chl-lim-MnO2 x 2		<.5	overall low sulfide core	21 / 27 / 32 / 37	40 / 40 / 55	0 / 3					.10 / .12
	60 WH		50	20 x 3 / 7-15 x 6	5? / 20 x 3	6' / ½ - ¾ x 5 / ½ - ¾ x 2 blex 6	qq - bx - lost core (≈ 3' qq) / MnO2 (mal) x 5 / qtz-lim (cp) x 3 / lim - mal x 6		<.5		43 / 47	20 / 65	7					.15

12,452

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 83-7
SHEET No. 2 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Footage	GRAPHIC LOG: Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Discs	Estimated Core Recovery %	R.Q.D.	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	60 Mod	60	3×6 5×3 70 10	hle×6 1/32×3 1/32 1/4	lim×6 qtz-py-lim×3 qtz-py-lim qtz-ser-lim	0-90	<.5		53	75 70	40					.10
	50 Mod	70	? 15 3 20 20 15-55×3	1" 1/10 1/4 1/2" " 1" " 2"×3"×2"	qtz-chl-ep 3ax qtz-chl-MnO2-mal qtz-ser-lim qtz-ep (Mn02) zone qtz-ser-MnO2 zone qtz-ep zones×3	0-90	<.5		63 1/2 63 66 1/2	70 75 80	50					.10
	50 Wk	80	25 10×2 40? 60-70 80 80 80	1" 2"×2 hle×2 1"-1/2 3" 3" 6"	qtz-ser-ep (co)(mal) qtz-chl (vug) ×2 MnO2-mal ×2 qtz-cp ×2 qtz-cal(vug) (py(?)) qtz-ep qtz-chl-ep zone	0-90	<.5		73	85 80	30					.25
	?	90	80×2 ? 30?-20"×3	2"×2 6' 1/2×?	qtz-ep + ytz qtz-chl-ep zone 1/2-2" dia round ep clots in swirled qtz-chl. matrix (qtz)-ep zones	0-90	<.5		81 87	90 70	43					.10
	?	100	? 5×2	8' hle×2	qtz-chl-ep zone MnO2-mal ×2	0-90	<.5		93 99	80	43					.10
	50 Mod.	110	? 20-10×4 20+3× 10 40+5×	12" hle×4 1/10×2 1" 1/10×2	(qtz) ep zone MnO2-qtz-(mal) ×4 qtz-chl (lim)×2 qtz-chl-py-lim qtz-lim-mal×2	0-90	<.5		102 107	85 95	30					.12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 34-7
SHEET No. 3 of 9

ROCK TYPES & ALTERATION			∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	P.Q.D.	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
			50 Mod		120		15 10 10 5×3	1/10 1/10 1/10 1/10-1/20×3	qtz-chl-lim qtz-lim-mal qtz-py-lim qtz-lim-mal×3	0 10 20 30 40 50 60 70 80 90	<.5		[illegible]	[illegible]	27					.13
			50 Mod		130		70 35 35 5×2 20 5	1"+2" 1" 1/10 1/20"-1/10 1" 1/10	qtz×2 qtz-chl-lim-cp-mal qtz-chl-lim MnO₂-mal×2 qq-MnO₂ (mal) qtz-chl-cp (mal)	0 10 20 30 40 50 60 70 80 90	<.5				2[illegible]					.12
			35 Str.		140		45×2 10 35 30×2 40 5	1/10+1/8 12" 2" 1/4×2 1/20 1/2	qtz-chl qtz-ser-lim-(mal) qtz qtz-chl-(cp)(mal)×2 chl-mal qtz-chl-qq-MnO₂)	0 10 20 30 40 50 60 70 80 90	<.5		134 139	[illegible] [illegible]	27					.14
			40 Mod		150		30×3 5×4 5+30 45 40 45×3	1/10×3 1/20×4 1/4×2 1/2 1/4 hle×3	qtz-chl-lim-(cp)(mal)×3 qq-MnO₂-mal×4 qtz-ser-lim (py)×2 qtz-lim-mal qtz-chl-cp-lim-mal MnO₂-mal×3	0 10 20 30 40 50 60 70 80 90	<.5		144 147 150	[illegible] [illegible] 55	2[illegible]					.30
			45 Mod		160		5×2 45+50 5 10×3 40	1/20×2 hle×2 1/10 1/20×3 1/10	qtz-chl-py-mal×2 MnO₂-mal×2 qtz(py)(cp) qtz-lim-py×3 qtz-chl-cp	0 10 20 30 40 50 60 70 80 90	<.5		155 160	60 98	50					.14
		approaching a Granite Mtn Phase re. type (ie incr. qtz-decrease chl.)	45 Wk-Mod		170		15 20 35 30×3 30+5-3	1/2 1" 1/10 1/10×3 1/10×3	qtz-chl (py) qtz-chl-py qtz-py qtz-py-lim×3 qtz×3	0 10 20 30 40 50 60 70 80 90	<.5		167	98 90	50					.08

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 24-7
SHEET No. 4 of 9

ROCK TYPES & ALTERATION			∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERDENE / REMARKS	Footage Blocks	Estimated Core Recovery %	R.Q.D.	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
			45 Mod		180		45 x 2 60 30 + 70 40 45	1/10 x 2 2" 1/4 x 2 1/4 1/4	qtz-cp x 2 qtz-ser qtz x 2 qtz-chl-(py)(cp) qtz-chl-(py)	0 10 20 30 40 50 60 70 80 90	<.5		[illegible]	[illegible]	57					.12
			40 Mod		190		25 x 3 10-20 x 5 45 + 50 45 50-70 x 3	1/10 x 3 1/20 + 1/4 x 3 1/10 + 1/4 1/10 hle x 3	qtz-chl-py x 3 qtz-chl-lim (mal) x 5 qtz-chl-lim (py) (mal) x 2 qtz-chl-lim-mal lim x 3	0 10 20 30 40 50 60 70 80 90	<.5		[illegible]		[illegible]					.10
			?		200		5 5 x 5 5 x 10 4	1/4 1/20 - hlene hle x 10 6"	qtz (vug) - lim - mal lim - mal x 5 lim x 10 99 } broken + lost core	0 10 20 30 40 50 60 70 80 90	<.5		[illegible] [illegible]	50 50	10					.20
			60 Mod		210		40-50 x 3 60 40 70	1/10 x 3 1/2 1/10 1/2	qtz-py x 3 qtz-cp qtz-chl (cp) qtz-cp	0 10 20 30 40 50 60 70 80 90	<.5		204 1/2	65	60					.12
			50 wk		220		60 50 x 2 50	2 1/2 3" + 1" 1/8	qtz-chl (vug) x 2 qtz-cp	0 10 20 30 40 50 60 70 80 90	<.5		213 1/2	95	40					.08
			45 Mod		230		60 5 50 x 3 60 45 50	1" 1/2 1/4 + 1/10 + 1/20 4" 1" 1/10	qtz-chl qtz-chl (vug) (cp) qtz-chl-py x 3 qtz-cp qtz (cp) qtz-chl (cp)	0 10 20 30 40 50 60 70 80 90	<.5		224 230	90 95	53					.10

GRID _____

GIBRALTAR MINES LTD.

HOLE No. [illegible]
SHEET No. 5 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration / Footage / Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	R.Q.D.	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	60 wk-Mod	240	45 x2 5 30 ?	1/10 3" 1/5 3'	qt3-chl-cp x2 qt3-chl(vug)-cp qt3-chl-(vug)(cp) bx (qt)	0 10 20 30 40 50 60 70 80 90	<.5		[illegible]	87 90	33					.18
	70 wk-Mod	250	90 45 45 x2 60	3" 1/10 1/3-1/2 2'	qt3-cp qt3-chl(py) qt3 x2 qt3-cp zone	0 10 20 30 40 50 60 70 80 90	<.5		[illegible]	[illegible]	67					[illegible]
251' LEUCOCRATIC ZONE (251'-330') med grn. equigran. rx. - ~50 o/o	60 wk	260	60 60 x3 50 60+50 45 x3	1/2 1/10-1/20 x3 1/2 1/10 1/4+1/10 x2	qt3-cp + 1" qt3-ser gravel. qt3-py-ser x3 qt3-(cp)(Mo) qt3-ser-py qt3-ser-py-cp	0 10 20 30 40 50 60 70 80 90	.5		[illegible]	[illegible]	40					.12
qt3, 30 o/o sous slag ~10-15 o/o K'spar? and < 2 o/o chl. - in places, very high cp content and rx is	60 wk	270	50 x5 60 50 60	1/20-1/10 x5 1/4 1/10 1/10	qt3 (ser) py-cp x5 qt3-(ser) py (cp)(Mo) qt3-ser-py qt3-ser-py	0 10 20 30 40 50 60 70 80 90	.5		247	[illegible]	70					.10
predom. epidote green rather than the normal pale grey. -	60 wk	280	60 x2 60 x2 50	1/4+1/10 1/10 x2 1/4	qt3-ser-py x2 qt3-py x2 qt3-chl-py	0 10 20 30 40 50 60 70 80 90	<.5		277	93	83					.08
some "patches" of Mine Phase		290	60 x2 70 70	1/8+1/10 1/4 1/10	qt3-chl-py x2 qt3 [illegible] qt3-ser-py	0 10 20 30 40 50 60 70 80 90	<.5		287	95	77					.05

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 24-7
SHEET No. 6 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	R.Q.D.	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	60 WK		300		60 45 45 45×7 50 60	80" 1/8 1/5 1/20-1/10×7 1/8 1"	Lt sand [illegible] qt3-[illegible] chl qt3-py×7 qt3 (Mo) qt3	0 10 20 30 40 50 60 70 80 90	.5		307	98	43					.05
hybrid rx - between [illegible] phase and [illegible]	60 WK		310		60×12 60 60 70	1/20-1/10×12 1/4 1/10 1/4	qt3-chl-py×12 qt3 (Mo) qt3-chl-py qt3 (Cp)	0 10 20 30 40 50 60 70 80 90	.5		317		80					.05
hybrid rx - as above	45 WK-Mod		320		45 40 45×2 45×4 45×40	1½" 1/8 1/5-1/4 1/20-hle×4 1/2-1/5	qt3-ser-py qt3-ser-py qt3-ser-py×2 qt3-chl-ep-py×4 qt3-ser-py×2	0 10 20 30 40 50 60 70 80 90	1.0		315½	95 95	43					.05
330'	ND		330		50×3 40 45×3 10	1/10-1/20×3 1/4 1/20×3 1½	qt3-chl-py qt3-py qt3-ser-py×2 qt3-chl (vug)	0 10 20 30 40 50 60 70 80 90	<.5		322 327	95	10					.05
MIXED ROCK PHASE (330'-466') resembles a hybrid phase - complex	ND		340		35 45 60 40+70 40	1/4 1/10 1/20 1/4×2 1"	qt3 (vug) chl-py qt3-chl-py qt3-ep×2 qt3-ep	0 10 20 30 40 50 60 70 80 90	<.5		337	90	33					.05
mixture of leucocratic rx and Mine Phase plus a Transitional type (~10% chl.) resembling Granite Mtn Phase, but fine - med grn.	ND		350		7 45 60×3 50+60	3" 1/10 1/4+1/8×2 1/4+1/10	qt3-ep qt3-py qt3-ser-py qt3-ser-py	0 10 20 30 40 50 60 70 80 90	1.0		344 348	85 80	50					.05

GRID _____

GIBRALTAR MINES LTD.

HOLE No. [illegible]
SHEET No. 7 of 9

ROCK TYPES & ALTERATION			∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration / Footage / Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blows	Estimated Core Recovery %	P.O.D.	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
			ND	360	25 45 70 70	1/10 1/4 1/20 1/10	qtz-chl (py) qtz-chl (py) qtz-chl (py) qtz-chl-py-cp	0 10 20 30 40 50 60 70 80 90	<.5		[illegible]	[illegible]	50					.08
			ND	370	45+50 5+15 70	1/10 + 1/8 1/4 x 2 1/10	qtz-chl-cp + qtz qtz-chl qtz-chl-py	0 10 20 30 40 50 60 70 80 90	<.5		[illegible]		[illegible]					.10
			70 WK	380	70 35 70 40	1/10 1/8 2" 3'	qtz-chl-py qtz qtz-chl-carb-py qtz-ser-(chl) ((py))	0 10 20 30 40 50 60 70 80 90	.5		[illegible]	[illegible]	48					.08
			ND-60 WK-Str.	390	50 70 80 x 5 65 60	1/4 1/10 hle x 5 3" 6" 6"	qtz-py qtz-chl-py qtz-chl-py x 5 qtz-cp qg-br qtz-chl (py) zone	0 10 20 30 40 50 60 70 80 90	.5		[illegible] 389	80 55	30					.06
			60-70 WK	400	60 x 4 70+80 5 70 x 2 80	1/8 x 4 1/10 x 2 1" 1/8 x 2 1/4	qtz-ser-py x 4 qtz-chl-py x 2 qtz-chl-vug qtz-ser-py qtz (cp)	0 10 20 30 40 50 60 70 80 90	1.0		392½ 400	70 90	40					.08
			60-70 Sl. Cren Str.	410	60-70 70 x 3	7' 1½" + 1/10 x 2	qtz-ser-chl-carb-py-(cp)((Mol)) zone qtz-ser-py-cp x 3	0 10 20 30 40 50 60 70 80 90	2.0		405½	80 90	27					.25

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 34-7
SHEET No. 8 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Foliation Alteration	Foliation Alteration	Structures	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS / LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	R.Q.D.	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	? weakly folded in places			420		5?	1/8	qtz-cp (Mo)	0	1.0		[illegible]		33					.25
						80	1/4	qtz-ser-py	10										
						45x2	1/10x2	qtz-chl-cp x2	20										
						5	2"	qtz-chl-carb-py-cp	30										
						70	1/2	qtz-chl-ser-carb-cp	40										
						30+90	1"x2	qtz-chl-vug x2	50										
									60										
									70										
									80										
									90										
	ND			430		15	10"	qtz-chl-ser (py)(cp) zone	0	.5		[illegible]	85	[illegible]					.12
						40	1/20	qtz-cp	10										
						40	1/4	qtz-py	20										
						70+80	1"+2"	qtz-ep x2	30										
						5	1/10-1/4	qtz-carb-hem-qq-py	40			427							
						80	2"	qtz-ep	50										
									60										
									70										
									80										
									90										
	ND			440		45	1/10	qtz-py	0	<.5		[illegible]	85	[illegible]					.05
						45	2½	qtz-ep	10										
						70?	3"	qtz-ep-leucocratic zone	20										
									30										
									40			436							
									50										
									60										
									70										
									80										
									90										
	ND			450		70	2"	qtz-ep zone	0	<.5		446	85	20					.05
						45	1/8	qtz-ser-py	10										
						5?	6"	qq-bx	20										
						50	1"	qq	30										
						40	1/2	qq	40										
						5	1/10	qq-hem	50										
									60										
									70										
									80										
									90										
	ND			460		25	1/4	qtz-chl-carb py	0	.5		451	90	67					.05
						45	1/8	qtz-py-cp	10										
						25	2"	qtz-chl (vug)	20										
						5?	2"	qtz-chl (vug)	30										
						70	1/4	qtz-vug	40										
						30-50x5	1/10x5	qtz-chl-py x5	50			457							
						80	1/4	qtz-vug	60										
									70										
									80										
									90										
	ND			466		70	1/8	qtz	0	.5		462	95	7					.15
						40	3/4"	qtz-cp(Mo)	10										
						5+30	1/10 x2	qtz-chl (py)(cp) x2	20										
									30										
									40			463½	75						
	?			470		?	4"	qq-bx-lost core	50										
									60										
									70										
									80										
									90			470	20						

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-7
SHEET No. 9 of 9

ROCK TYPES & ALTERATION			∠ to Core Foliation	GRAPHIC LOG: Foliation, Alteration, Footage, Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE; REMARKS	Footage Blocks	Estimated Core Recovery %	POD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Calculated Grade
		MAJOR FAULT ZONE (466-480) EOH 480'		480	?	10'	qq-br-lost core	0 10 20 30 40 50 60 70 80 90	?		480	30	0					?
		G. D. Bysouth						0 10 20 30 40 50 60 70 80 90										
								0 10 20 30 40 50 60 70 80 90										
								0 10 20 30 40 50 60 70 80 90										
								0 10 20 30 40 50 60 70 80 90										
								0 10 20 30 40 50 60 70 80 90										

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-09
SHEET No. 1 of 3

LOCATION: POLLYANNA WEST	BEARING: —	LATITUDE: 50094.00 N	CORE SIZE: N.Q.W.	LOGGED BY: G.D.B.
DATE COLLARED: May 25, 1984	LENGTH: +50'	DEPARTURE: 51842.00 E	SCALE OF LOG: 1" = 10'	DATE: June 1, 1984
DATE COMPLETED: May 27, 1984	DIP: -90°	ELEVATION: 3811.00'	REMARKS: This hole intersects the Granite Mtn contact.	

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP — / LIM. ZONE 88 (weak) / SUPERGENE — / REMARKS	Footage Blocks	Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
Casing To 40'			40					0, 10, 20, 30, 40, 50, 60, 70, 80, 90			40							
MINE PHASE QUARTZ DIORITE (40' - 79') typical Mine Phase	ND		50		40×2+45 40+10 45-50×2 45×2	1/10+1/4+1/8 hle×2 1/10×3 1/10×2	qtz-chl-py×3 lim×2 qtz-chl-py×3 qtz-chl-py×2	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	1.5		43 47	60 85 95	50	33701				.10
- 30% qtz - 15% chl. - 45% saus plag - meg. grn.	ND		60		5 60×3 70 55 60-70×4 5+20	hle×2 1/10×1/4×3 1/10×2 1/10 hle-1/10×4 1/20×2	lim×2 qtz-chl-ser-py (cp)×4 qtz-ser-py×2 qtz-chl-py qtz-chl-py×4 qtz-chl-py×2	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	2.0		52½ 57	95 90	33	33702				.12
leucocratic zone with gradational contacts.	70 str		70		50 5×2 45 45 40	1/10 1/20×2 1/10 1/10 1/10	qtz-chl-py green qq×2 qtz-chl-py qtz-chl-py chl-py (cp) } vuggy corr and dk alth.	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	1.0		63 67	80 85	17	33703				.10
79	70 str		80		70 80	1/8 2"	qtz-py qtz broken, lim. stained vuggy core	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	.5		72½ 78	60 90	10	33704				.08

12,452

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-09
SHEET No. 2 of 3

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation, Alteration, Fracture, Stringers	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	P Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
QUARTZ-CARB-SERICITE ZONE (79'-92')	5-80 Str. foland & Gren.	90	5-80	12'	qt3-carb-ser-py zone lim stained vuggy zone - py mainly confined to several large shears.		3.0		81.2 85 92	85 75	43	33705				.12
DARK ALT'N PHASE 95 MINE PHASE QUARTZ DIORITE	80 Str.	100	70 x 2 40 30 40 30+20	1/8 x 2 1/8 1/16 1" 1/4 + 1/8	qt3-chl-py ((cc)) x 2 qt3-carb-py qt3-chl-py green qq qt3-py (cc) x 2		2.0		100		47	33706				.14
(95 - 201') . typical Mine P. sous. alt'n except where noted.	ND	110	20 x 2 60 x 3 15 x 2 20 x 2 60 x 2 5 40 40 x 3	1/4 + 1/10 1/10 x 3 1/8 + 1/4 1/10 x 2 3" + 1/4 1/16 5" 1/10 x 2 + 1/4	qt3-chl-py x 2 qt3-chl-py x 3 qt3-chl-py x 2 qt3-chl-py x 2 qt3-ser-py (cp) x 2 qt3-chl-py qt3-ser-carb (chl)-py (cp) qt3-ser-py x 3		4.0		107	95	27	33707				.16
dk alt'n	ND	120	45 x 2 20 x 2 60 40 x 6 60+50 30 45	1/10 x 2 1/8 x 2 1/4 1/4 - 1/10 x 6 1/2 x 2 6" 10"	qt3-chl-carb-vug-py x 2 qt3-chl-py x 2 qt3-chl-carb-py qt3-chl-carb-vug-py x 6 qt3 x 2 qt3 (chl) qt3-ser-carb-py		3.0		112 117 120	75 98 90	37	33708				.12
	ND	130	40 x 2 45 x 2 30 40	1/10 x 2 1/4 x 2 2" 1/10	qt3-chl-carb (py) x 2 qt3 (chl)-carb-py x 2 qt3-vug. qt3-chl-py		1.0		124 129	78 90	27	33709				.08
dk alt'n		140	30 45 70	1/4 45°	qt3-chl-py chl-ep qt3 (chl)-py		.5		137	85	27	33710				.04

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 34-01
SHEET No. 3 of 3

ROCK TYPES & ALTERATION			∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Foliage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Diocus	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
			ND				40	1/8	qtz-py	0	2.0		144	95	17	33711				10
							5	1/4	qtz-chl-carb-py	10										
							10×2	1/10×2	qtz-chl-py (cp)×2	20										
							10	1/10	qtz-carb-py (cp)	30										
							70	2"	qq	40			147	50						
							70×3	1/20×3	qtz-chl-py×3	50										
					150		15	1/4	qtz-chl-carb-py	60										
			70 WK				30?	24"?	qtz-ser-chl-py (cp) zone	70	1.0		152		50	33712				.08
							30+60	1/10+1"	qtz-chl-py (cp)×2	80										
							5?	6"	qtz-chl-vug.	90			157	85						
							50	2"	qtz-chl-(py) vug.	0										
					160		45+40+50	1/10×3	qtz-chl-py×3	10										
			70 WK				60+50×3	1/10+1/4×3	qtz-chl-py×4	20	2.5		165	95	33	33713				.12
							60×2+30	1/8×2+1/10	qtz-chl-py×3	30										
							60×2	1/4	qtz-ser-py	40										
							20	1"	qtz-chl-py (cp)	50										
							30	1/4	qtz-chl-cp	60										
							45×3+5	1/10×4	qtz-chl-py (cp)×4	70										
					170		60×2+30	1/10×3	qtz-chl-py×3	80										
			ND				45×2+30+40	1/10×4	qtz-chl-py×4	90	2.5		175½	95	27	33714				.15
							60+20×2	1/4+1/10×2	qtz-chl-py×3	0										
							35×4	1/20-1/8×4	qtz-chl-py×4	10										
							60	1/5	qtz-(chl)-py	20										
							45	2½"	qtz-chl-ser-py	30										
							20	2"	qtz-py	40										
					180		20	1/4	qtz-chl-py-cp	50										
							60+70+80	1/10+1/8×2	qtz-chl-ser-carb-py×3	60	4.5		182	95	13	33715				.16
							20	12"	qtz-ser-py	70										
							40	1/2	qtz-carb (chl)-py	80										
							30	1/5×2	qtz-chl-py (cp)×2	90										
							45×8	1/5-1/4×8	qtz-ser-py	0			187	95						
							20×2	1/10×2	qtz-chl-py	10										
					190		45×3	1/4+1/8×2	qtz-chl-ser-py (cp)×3	20										
							30×2+20×2	1/10×4	qtz-chl-py (cp)×2	30	1.5		193	50	10	33716				.40
							40	1/2	qtz-py (cp) ((chl))	40										
							80	6"	qtz-cp-py	50			197	30						
		Fault					?	?	qq-br-lost carb	60										
								12"	qtz-chl-cp (py) zone	70										
					200			8"	chl-carb (cp) zone	80				90						

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-09
SHEET No. 4 of 3

ROCK TYPES & ALTERATION			∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	GRAPHIC LOG: Fracture	GRAPHIC LOG: Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	R.Q.D.	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
		201'					70-80	½ x 2	qt3 x 2											
		LEUCOCRATIC ZONE (201'-219') zones of typical leucocratic rx. alternating with	ND				45	⅕	qt3-chl-py-cp		.5		205		20	33717				15
							70	2"	qt3					60						
						210	45	⅕	qt3-ser-cp				229							
		hybrid mine phase and rx. resembling the gen Granite Mtn. Phase.	ND				45	1/20	qt3-chl-cp		.5		215	30	13	33718				.20
							40 x 2	1/20 x 2	qt3-chl-py(cp) x 2											
							35	1/10	qt3-chl-cp											
		219'					50	¼"	qt3-(cp)(Mo)					55						
							40	¼	qt3-chl-(Mo)(cp)				219							
						220	45	1"	qt3-chl-cp (Mo)											
		MINE PHASE QUARTZ DIORITE (219'-284')	ND				70	⅕	qt3-chl-cp (Mo)											
							45 x 3	1/10 x 3	qt3-chl-cp x 3					95						
							5	1/10	qt3-chl-py (cp)		.5				37	33719				.25
							45 x 2	⅛ + 1/10	qt3-chl-cp x 2				227							
							30	⅛	qt3-chl-cp											
						230	40+45+60	1/20 x 3	qt3-chl-py x 3											
							40?	12"	qt3-ser-(cp)					75						
		Typical Mine Phase					4 x	¼	qt3-chl-cp				233							
			ND				70 x 2	⅕	qt3-chl (veg) x 2		<.5				23	33720				.18
							60	⅕	qt3-ser-cp					70						
							5	1/10	qt3-chl-cp				239							
						240	40 x 2	1/20 x 2	qt3-chl (cp) x 2											
							20?	24"	qt3 - ser3 (chl) (cp) zone					50						
							45 x 3	1/10 x 3	qt3-chl-cp x 3				242							
			ND				60 x 2	½ + ⅛	qt3-ser-chl-py-cp x 2		<.5			30	20	33721				.30
							?	3"	qt3-cp-Mo											
							?	1/10	qt3-chl-cp				247							
								4'	bx - lost core											
							60 x 2	½ + 1"	qt3-chl (cp) zone x 2											
						250	?	~4"	qt3-chl-cp					50						
							60 x 2	V to A?	qt3-ser-py-cp				253							
							?	⅛	qt3-chl-py											
							45	¼	qt3-chl-cp											
							5 - 45 + 50	1/10 + ¼ - 1/10	qt3-chl-py-cp x 3		1.5			40	7	33722				.25
							30 x 2	1/10 x 3	qt3-chl-py-cp x 3				257							
							35 x 3	1/20 - 1/10 x 3	qt3-chl-py-cp x 3											
						260	?	1/10	qt3-ser + py (cp)											

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 34-59
SHEET No. 5 of 3

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration / Footage / Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Diameter	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	110 to 70 str.	270	35×3 60×3 5 45 70-80	1/10×3 1/20×3 1/20 1/8 40"	qtz-chl-cp×3 qtz-chl (cp)×3 qtz-chl (cp) qtz-ser-cp qtz-carb-(ser) zone	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	.5		263	60 70	17	33723				.15
	70 str.	280	45+60 5×2 35×2+60 5 60 30×5 30+60	1/10+1/4 1"+1/2 1/4+1/10+1/4 1/2 1/2 1/4×2 1/10+1/4	qtz-chl-cp×2 qtz-cp + qtz-chl-cp qtz-chl-cp×3 qtz-chl-cp qtz-cp (Mo) qtz-chl-carb-cp×2 qtz-chl-cp×2	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		280	95	17	33724				.40
284			55 70	1/2 1/2	qtz-chl-cp qtz-cp (Mo)	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	.5		285	95	30	33725				.18
LEUCOCRATIC ZONE (284'-309')	80 str	290	80 70×2 40×3	1/20 1/2×2 1/10×3	chl-py qtz×2 qtz-py-cp					95						
Similar to that of 201'-219'.	80 wk	300	30×3 10 70 60 20 5	1/10×3 1/2 1/5 2" 2" 6"	qtz-ser-py×3 qtz-carb-py qtz-cp (vug) qtz qtz (cp) qtz	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		293 295 299	98 90	47	33726				.18
309	70 wk	310	75×2 45 45 70 ? 70	1/2×2 1/2 1/10 3" 1/2 10"	qtz×2 qtz qtz-chl-cp qtz (cp) qtz qtz	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		307	95 85	53	33727				.14
MINE PHASE (309'-341') typical vx	70 wk	320	45×2 40+80 20 60×2 70×4 35×2 30+60	1/10×2 1/20×2 2" 1/8+1/10×2 1/20×4 1/20×3 1/8+1/10×2	qtz-chl-py×2 qtz-chl-cp×2 qtz-cp qtz-chl-py×2 qtz-chl-py (cp)×2 qtz-chl-py-cp×2 qtz-chl-py + chl-cp×2	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	1.0		311½ 315 319	95 98	17	33728				.15

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-09
SHEET No. 6 of 8

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration / Footage / Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	P O D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	ND	330	60×20 50×2 45×5 40×4 40+35 80? 45+35	1/4+1/2 1/4+1/10 1/10-1/20×5 1/10+1/4+1/10×2 1/10×2 24" 1/8+1/10	qtz-chl (cp)×2 qtz-chl-cp×2 qtz-chl-py (cp)×5 qtz-chl-py (cp)×4 qtz-chl-py×2 qtz-ser-carb-py-cp zone qtz-chl-py (cp)	0 10 20 30 40 50 60 70 80 90	1.5		325 327 333	85 70 65	13	33729				.25
	ND	340	35×3 50 35×3+45×2 45 5-10×2 30?	1/8+1/4×2 1/4 1/10+1/4×4 1/4 1/10×2 8"	qtz-chl-py-cp×3 qtz-chl-cp qtz-chl-py-cp×5 qtz-chl-cp qtz-chl-carb-py-cp×2 qq	0 10 20 30 40 50 60 70 80 90	1.5		336½ 339	75 85	3	33730				.25
341 LEUCOCRATIC ZONE (341-'392') - grades from typical leucocratic rx to seriate type rx. with 5-10% chl. - generally equigran. med. grn. but finer grn than Mine Phase	ND	350	40×2 40 30 60	1/8×2 1/5 1/2 1/2	qtz-(chl) (py)×2 qtz-cp qtz-cp qtz (cp)	0 10 20 30 40 50 60 70 80 90	<.5	Very poor structure - just several large veins	348 347	90 95	17	33731				.30
	ND	360	60+30 15 35×2 20	1/4+1" 1/10 30" 1/4×2 1/10	qtz×2 qtz-chl-py (qq)-bx (hem) qtz-chl-carb-cp×2 qtz-chl-py	0 10 20 30 40 50 60 70 80 90	.5		353 356½ 360	98 60 80	20	33732				.15
	ND	370	45 35-60×4 60 - 35 45	12" 1/4-1/10×4 1/5 2" 1" 1/8	bx (qq)-hem qq×4 qtz-py qtz-cp qtz-chl-cp qtz-chl-py (cp)	0 10 20 30 40 50 60 70 80 90	.5		367	90 95	20	33753				.14
	Bo Wk	380	40 35×2 60 50×2 40×2 35 80 60×2	1/8 1/4×2 8" 1/8×2 1"×2 1/10 1" 1/4×2+1/10×2	qtz-carb qtz-chl-py×2 qtz-cp zone qtz-chl (cp)×2 qtz-cp + qtz ((cp)) qtz-chl-cp qtz (cp) qtz (chl)-cp×2	0 10 20 30 40 50 60 70 80 90	.5		373½ 377	95	20	33734				.25

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 34-09
SHEET No. 7 of 3

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS / LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	70 str		395		80 x 4 70 x 4 ? ? 70	1/20 x 4 1/20 x 4 12" 2" 1/2	qtz-chl-py-cp x 4 qtz-chl-cp x 4 qtz-(ser)-(Mo)((py)) qtz-ser (Mo) qtz-carb	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	.5		384 395	98 40 95	23	33735				.15
392' MINE PHASE (392'-425')	60 Mod		400		45 70 x 45 x 2 30 45 50 70 60	1/2 1/10 x 3 1/2 1/8 1/10 1/20 1/5	qtz-cp qtz-chl-cp x 3 qtz-carb (cp) qtz-chl-cp qtz-py qtz-chl-cp qtz-chl (vug)	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	.5		391 395 399	95 90	17	33736				.18
	70 wk		410		45 x 2 60 x 2 50 x 3 45 70 65	1/10 + 1/8 1/4 + 1/10 1/20 - 1/10 1/2 2" 2"	qtz-chl-cp x 2 qtz-chl-py-cp x 2 qtz-chl-py-cp x 2 qtz-chl-cp qtz-py qtz-ser-py	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	1.0		402 407	90 90	17	33737				.20
	70 Mod		420		80+60 80 70 55 70	1/4 x 2 1/2 1" 1" 6"	qtz-chl-cp x 2 qtz-chl ((cp)) qtz-chl-carb-cp qtz-cp ((Mo)) qtz-chl-ser-carb ((Mo)) x 30%	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	.5		413 419	95 85	23	33738				.15
GRANITE MTN PHASE QUARTZ			430		70 x 3 50 x 2 50 x 3 60	1/4 + 1/10 x 2 1/10 x 2 1/20 x 3 1/4	qtz-chl-(py) x 3 qtz-chl-cp x 2 qtz-chl-py-cp x 3 qtz-ser-carb-cp	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	.5	veins are often indistinct - poss. silicification	425	98 90	13	33739				.15
DIORITE (425'-450') med. grn. with some course grn phases 45%-50% qtz 1-10% chl.			440		45 30 ? 30	1/2 4" 2" 2"	qtz-ser-py qtz-chl (vug) qtz-chl (vug) (cp) qtz-(Mo)(cp)	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		431 437	80 60	7	33740				.12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. [illegible]
SHEET No. 3 of 3

ROCK TYPES & ALTERATION			∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Foliation	Structure	Value ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
		- very conspicuous qtz - 3' leucocratic zone at contact	ND				60×2	1/4+1/10	qtz (chl.) cp +2	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5	drillers report fault at 444½ which caused the rods to tighten up preventing further drilling	441 444½ 450	95 18	43	33741				.14
							45	1/20	qtz-cp											
					450		45	1/10	qtz-cp											
		EOH 450' G. D. Bysouth								0, 10, 20, 30, 40, 50, 60, 70, 80, 90										
										0, 10, 20, 30, 40, 50, 60, 70, 80, 90										
										0, 10, 20, 30, 40, 50, 60, 70, 80, 90										
										0, 10, 20, 30, 40, 50, 60, 70, 80, 90										
										0, 10, 20, 30, 40, 50, 60, 70, 80, 90										

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-10
SHEET No. 1 of 8

LOCATION: POLLYANNA WEST	BEARING: —	LATITUDE: 500 35.00 N.	CORE SIZE: N.Q.W.
DATE COLLARED: May 27, 1984	LENGTH: 503'	DEPARTURE: 516 11.00 E.	SCALE OF LOG: 1" = 10'
DATE COMPLETED: May 29, 1984	DIP: -90°	ELEVATION: 3819'	REMARKS: This hole intersects the Granite Mtn. contact.

LOGGED BY: G.D.B
DATE: May 29, 1984

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Foliage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blocks	Estimated Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
Casing To 64' hole was collared on blasted ore in pit 64'								0, 10, 20, 30, 40, 50, 60, 70, 80, 90										
MINE PHASE QUARTZ DIORITE (64 - 187) 16" leucocratic zone; 25% qtz; 25% chl; 45% saus. plag.; med grn.	70 Wk-Mod		70		75; 45x2+35x3; 50; 25x3	1/10; 1/10x2+1/20x3; 8"; 1/4+1/8x2	qtz-chl-py; qtz-chl-py x5; qtz-ser-py (cp); qq x3	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	1.0		64; 67	95; 90		33651	.08	<.002		.12
	70 Wk		80		40x2; 30x2; 45; 5; 50+60; 15-20x4; 5	1/10x2; 1/10x2; 1/10+1/20; 1/4; 1/10+1/5; 1/20x4; 1/8	qtz-chl-py x2; qtz-chl-py x2; qtz-chl-py-cp x2; qtz-ser-carb-py (cp); qtz-chl-py (cp) x2; qtz-chl-py x4; qtz-chl-py	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	1.5		72; 77	90; 80; 95	33	33652	.16	<.002		.15
Saus. alt'n phase	60 Wk		90		15x2+50; 60+50; 15x3; 20x2; 30+45; 45+30; 5x2; 5x2+20; 20	1/10x2+1/8; 1/4+1/10; 1/10x3; 1/10x2; 1/8+1/4; 1/20+1/4; 1/10x2; 1/4+1/10+1/4; 1/20	qtz-chl-py (cp) x3; qtz-chl-py (cp) x2; qtz-chl-py (cp) x3; qtz-chl-py (cp) x2; qtz-chl-py-cp x2; qtz-chl-py-cp x2; qtz-chl-py-cp x2; qtz-chl-py-cp x3; qtz-chl-py-cp	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	2.0		83; 87	95; 85; 95	60	33653	.34	.002		.35
	60 Wk		100		30+45x2; 5+70; 15x3; 60; 40-45x3; 30+45+20	1/2+1/4x2; 1/10+1/8; 1/4+1/8x2; 1/10; 1/10x3; 1/20x3	qtz-ser-py x3; qtz-ser-py; qtz-ser-py (cp) x3; qtz-ser-(py) (cp); qtz-chl-py x3; qtz-chl-py x2	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	2.0		90½; 97	95; 85	27	33654	.11	.006	.18 3725	.15

GEOLOGICAL BRANCH ASSESSMENT REPORT

12,452

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 34-10
SHEET No. 2 of 3

ROCK TYPES & ALTERATION			∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	R.Q.D.	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
			ND				35×2	1/2+1/10	qtz-ser-py ×3	0	2.0		101	35	13	33655	.14	.004		.15
							40	1/2	qtz-ser-py (cp)	10										
							35+5×2	1"+1/4×2	qtz-ser-py ((cp)) ×3	20										
							5×2	1/4+1/8	qtz-chl-py	30										
							45×4	1/10×4	qtz-chl-py ×4	40										
							45×2	1/10×2	qtz-chl-py ×2	50										
							60+20+60	1/4+1/10+1/5	qtz-chl-py ×3	60										
					110		15×2	1/10×2	qtz-chl-py ×4	70			109							
			ND				70	2"	qtz-ser (py)	0	2.0		115½	95	43	33656	.13	.004		.15
							25	1/5	qtz-ser-py	10										
							45+35×6	1/5+1/20×6	qtz-chl-py (cp) ×6	20										
							60×3	1/20×3	qtz-chl-py ×3	30										
							35×2	1/8×2	qtz-chl-py (cp) ×2	40										
							55+70	1/5×2	qtz-ser-py ×2	50										
							20×2	1/20"	qtz-chl-py	60										
					120		40×2	1/10×2	qtz-chl (py) ×2	70										
										80										
										90										
			ND				20×4	1/10×4	qtz-chl-py ×4	0	1.5		125	95	37	33657	.10	.002		.12
										10										
							45-55×6	1/20-1/8×6	qtz-chl-py (cp) ×6	20										
							70	1/5	qtz	30										
							40×2	1/10×2	qtz-chl-py ×2	40										
							35+5+35	1/10+1/4+1/10	qtz-chl-py (cp) ×3	50										
							5×2+45×2	1/10×4	qtz-chl-py	60										
					130		25	1/8	qtz-py	70			130	95						
										80										
										90										
			ND				20×3	1/2+1/4+1/8	qtz-chl-py ×3	0	2.0		137	95	50	33658	.10	.004	.12	.12
										10										
							20×6	1/8-1/10×6	qtz-chl-py ×6	20										
							15	1"	qtz-ser-py (cp)	30										
										40										
										50										
										60										
							10-5×4	1/4-1/10×4	qtz-chl-ser-py ×4	70										
					140					80										
										90										
			ND				5	1/4	qtz-(chl)-py	0	2.5		142	95	50	33659	.16	.002		.15
							10	1/5	qtz-py (cp)	10										
							10×3	1/10×3	qtz-chl-py (cp) ×3	20										
										30										
							5-10×6	1/10×6	qtz-chl-py ×6	40										
							5-10	1/2	qtz-ser	50										
					150		15×5	1/8+1/10	qtz-chl-py (cp) ×2	60										
										70										
										80										
										90										
			ND					3"	qq-bx	0	1.0		150½	95	50	33660	.11	.002		.10
										10										
										20										
							30	1"	qtz (mo)	30										
							60	1½"	qtz-ser-carb-py	40										
							60	1/4"	qtz-chl (carb) cp zone	50										
										60										
										70										
					160		5	1/10	qq	80			157							
										90										

GRID _____

GIBRALTAR MINES LTD.

HOLE No. [illegible]
SHEET No. 3 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG (Foliation Alteration / Footage / Structure)	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS / LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
187'	ND	170	5-10 x 2 5-15 x 3 45 x 2	1/10 x 2 1/8 - 1/10 x 2 1/10 x 2		0, 10, 20, 30, 40, 50, 60, 70, 80, 90	1.0		[illegible]	[illegible]	30	33661	.09	.002		.12
LEUCOCRATIC ZONE (169-187) generally a med. grn. equigranular rx	ND	190	80 45 35 5 x 3 - 20 40	2" 1/4 1/5 1/10 x 3 1/4	cp qtz-py qtz-chl-py qq x 3 qtz-chl-py	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	.5		[illegible]	[illegible]	37	33662	.07	.002		.08
Some inclusions of host rock. 187'	ND	190	40 35 x 2 60 ? 60 + 50 + 35 45 x 2	1/8 1/4 - 1/5 1/2 8" 1/10 x 3 1/10 x 2	qtz - py (vug) qtz-chl-py x 2 qtz-chl-ser-py qtz-py (cp) (Mo) qtz-chl-py (cp) x 3 qtz-chl-py x 2	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	1.0		182 187	85	37	33663	.09	.020	3635	.10
MINE PHASE (187-285 Sous Alt'n.	ND	200	60 50 15 60 60 45 70 x 2 25	1" 1" 1/2" 2" 1" 1/5 1/4 x 2 1/2	qtz qtz-cp qtz-cp-Mo qtz-cp-chl-cp qtz (cp) qtz-chl-py (cp) qtz-chl-(cp) x 2 qtz-chl (cp)	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	.5		187	95 90	43	33664	.27	.029		.25
	ND	210	25 35 x 2 60 5 60 60 7 10	2" 1/8 - 1/10 2" 1/10 1/2 2" 1/2 1/4	cp (qtz) qtz-chl-py-cp x 2 qtz ((cp)) qtz-chl-py qtz ((cp)) qtz qtz-chl-carb-py (cp) qtz-chl-carb-py x 2	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	1.5		202 207	98	43	33665	.11	.004		.20
	ND	220	60 60 7 60 x 3 20 x 3	1/2 1/2 1/10 1/2 + 1" x 2 1/10 - 1/20 x 3	qtz qtz-chl qq qtz ((cp)) x 3 qq-carb	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		217	85 80	30	33666	.07	.004		.08

GRID _____

GIBRALTAR MINES LTD.

HOLE No. [illegible]
SHEET No. 4 of 8

ROCK TYPES & ALTERATION			∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration / Footage / Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Diagr.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
			ND	230	30 60 10-20 x 4 35 x 3 40 30 x 2	30" 1" 1/4-1/10 x 4 1/20 x 3 1/8 1/2 - 1/8	qg-bx qtz-chl (vug) (cp) qtz-chl-cp x 4 qtz-chl-cp x 3 qtz-chl-cp qtz-py + qtz-chl-py	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	1.0		222 227	95	13	33667	.22	.008	.16 3590	.18
Fault			ND	240	35 x 2 40 x 3 35 ?	1/10 + 1/2 1/10 x 3 1/4 + 1/5 14" 4"	qtz-chl-py-cp qtz-chl-py x 3 qtz-chl-(py)(cp) x 2 qg qg-bx	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	1.0		235	95 90	27	33668	.15	.004		.15
			ND	250	50 50+5+45 50 35 20 5 ?	1" 1/4+1/8+1/4 1/5 6" 1/2 1/4 6"	qtz-cp (Mo) qtz-chl-cp x 3 qtz-(chl)-(py)-cp ((Mo)) qtz-cp qtz-chl-py-cp qtz-chl-cp cp-qtz zone	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	.5		241 246	95 90	20	33669	.35	.006		.25
			ND	260	70 50 25 x 30 ? 60	1" 1/4 + 1/10 1/10 x 2 12" 1/10	py-(cp) (Mo) qtz-chl (cp) x 2 qtz-chl (cp) x 2 qtz-chl-carb (cp) zone qtz-chl-cp	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	.5		251 257	95 98	23	33670	.18	.004		.20
			ND	270	20 15 60 30 40 45 45	1/8 3/4 1/10 1/2 1" 1/4 1"	qtz-chl-cp (py) qtz-cp qtz-chl-cp qtz (cp) qtz (chl) cp ((Mo)) qtz-chl-cp qtz-chl-cp	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		263	90	27	33671	.43	.018	.28	.40
Fault Zone 275'-285'			ND	280	65 15 x 2 60 ?	24" 1/10 x 2 1/5 5"	qtz-ser (cp) zone qg x 3 carb qg-bx	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	?		273 278	90	13	33672			3545	?

GRID _____

GIBRALTAR MINES LTD.

HOLE No. [illegible]
SHEET No. 5 of 8

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration / Footage / Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Diameter	Estimated Core Recovery %	P O D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
285	ND		?	5'	bx (qq)		<.5		285	50	13	33673				.12
CHLORITE ZONE		290	45 50	1/4 3'	chl chl-carb (qtz) (cp) zone											
(285'-308') zone of shearing and chlorite alt'n - numerous 1/10"-1/2" dia. "eyes" or lenses of qtz-carb (cp)	80 Mod-Str	300	80	10'	chl-carb (qtz) ((cp)) zone - cp mainly in qtz-carb lenses		<.5		290	95	23	33674				.13
- small zones of Mine Phase are converted to dark alt'n phase. 308	80 str	310	80 80 x 2	3' 1" x 2	chl-carb (qtz) ((cp)) zone - cp dissem and in qtz-carb. lenses qtz-chl-cp x 2		<.5		303 309	98	13	33675				.25
MINE PHASE (308 - 340) Saus. Alt'n but strong chl. alt'n and vuggy-type mineralization	ND	320	80 60 + 70 70 x 3 60 70 + 60 x 2 50 + 40	30" 1/4 + 1/5 1/10 x 3 1/8 1/10 x 3 1/10 x 2	qtz-chl-(carb)(cp) zone qtz-chl-cp x 2 qtz-chl-py-cp x 3 qtz-chl-cp-py qtz-chl-cp x 3 qtz-chl-cp x 2		1.0		316 1/2	85	30	33676			3500	.30
	ND	330	5-20 x 3 45 ? 60 x 6 60 + 3 40 45 45	1/10 x 3 3" 1/10 - 1/20 x 6 1/10 x 2 1" 3" 6"	qtz-chl-cp x 3 qtz-ser-carb-cp zone qtz-chl-py-cp x 6 qtz-chl-cp x 2 qtz-ser-cp qtz (ser)-cp qtz (chl)-cp		.5	~1" solid cp	327	90	23	33677				.70
	ND	340	45 45 x 2 60	1/10 1/10 x 2 1/8	qtz-chl-cp qtz-chl-cp x 2 qtz-chl-cp (py) (cp) zone		.5		333 338	95 90	13	33678				.20

GRID _____

GIBRALTAR MINES LTD.

HOLE No. [illegible]
SHEET No. 6 of 3

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration / Footage / Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Diagr.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
QUARTZ CHLORITE ALT'N ZONE (340-358) sl. sheared, vugey no saus., sl. brecciated, original texture obscured	ND	350	60×2+5 25 60×3 40 60-70×4 70	1/10×3 1/4 1/20-1/10×3 1/8 1/10×4 2"	qt3-chl-cp ×3 qt3-chl-cp qt3-chl-cp×3 qt3-chl-cp qt3-chl-cp×4 qt3-chl-cp (Mo)		<.5		344 349	80 98	10	33679				.40
QUARTZ-EPIDOTE ALT'N ZONE (353-363) 1-3" dia clots of cp in leucocratic matrix	ND	360	45 40	2" 1/4	qt3 (ser)-cp (Mo) qt3 (chl)-cp		<.5	1/2" cp	355 356½	[illegible] [illegible]	7	33680				.25
GRANITE MTN. PHASE QUARTZ DIORITE (363-503) - 45% qt3 - 10% chl - 40% saus plag. med grn. equigranular	ND	370	50×2 70×3 70×5	1/10×2 1/20-1/10×3 1/10-1/4×5	qt3-chl-cp×2 qt3-chl-cp×3 qt3-chl ×5		<.5		364 369	90 95	43	33681			3455	.15
	ND	380	35×3 50×3 40	1/8+1/4+1/10 1/10×3 2"	qt3-chl-cp×3 qt3-chl-cp×3 qt3-chl-cp zone		<.5		376 378	95 50	33	33682				.12
- occassional patches of typical coarse grn. Granite Mtn. Phase rx.	N.D.	390	70 80 ? 45 40	1/4 1/4 6" 1/4 1"	qt3-chl (cp) qt3 (cp) qq-bx qt3-cp (Mo) qt3-chl-cp		<.5		385½ 389	98 60	20	33683				.20
	ND	400	70 60×4 5×2 45×2 45×3	2" 1/8-1/10×4 1/10×3 1/4+1/2 1/10×3	qt3-chl-cp (vug) qt3-ser-py×4 qq×3 qt3-(chl)-cp (Mo)×2 qt3-chl-py×3		<.5		393 397	90 80 85	40	33684				.15

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 34-3
SHEET No. 7 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS / LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Diagr.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
					40	2"	qtz-ser-cp	0			401							
					45×2	1/8×2	qtz-chl (py)(cp)	10			403½	15						
					40	1/4	qtz	20										
					5	1/4	qq-hem	30										
					70-45	1/10×2	qtz-chl-py	40										
								50										
								60										
								70										
								80										
								90										
			410															
					70	2"	qtz-cp	0										
					45	1/4	qtz-cp	10				85						
					45	1/10×2	qtz-chl-cp	20										
					60×2	1"×2	qtz×2	30										
								40										
								50										
								60										
								70										
								80										
								90										
			420															
					5	1/5	qq-hem	0			421							
					35	1/5	qtz-cp	10										
					35	2"	qtz-cp	20				18						
					5-30×3	1/10×2+1/2	qq×3	30			426							
								40										
								50										
								60										
								70										
								80										
								90										
			430															
					60	1/4	qtz-cp	0			431½							
					35	1/4	qtz-cp	10										
					30	1/10	qtz-chl-cp	20				95						
								30			435							
					5	1/2"	qq	40										
								50										
								60										
								70										
								80										
								90										
			440															
					5	1/4"	qq	0			442							
					70	1/4	qtz-(cp)(Mo)	10										
					40×2	1/8×2	qtz-chl-py×2	20				90						
					60	2"	qtz-ser (cp)	30			447							
						8"	qq-bx	40										
								50										
								60										
								70										
								80										
								90										
			450															
					60	1"	qtz	0				95						
					30	2"	qtz	10										
					40	6"	qtz-(chl)(ser) cp ((Mo))	20										
					45	1/10	qtz-chl (cp)	30			455							
								40										
					45×2	8"×2"	cp (qtz)	50										
								60										
								70										
								80										
								90										
			460															

Depth	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
401							
403½	15						
	70	30	33685				.12
410						3410	
415	85	30	33686				.14
	95						
421							
426	18	23	33687				.25
	90						
431½							
435	95	17	33688				.20
	95						
442							
447	90	20	33689				.12
	95						
455		23	33690			3365	.28
	50						

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 34-[illegible]
SHEET No. 3 of 3

ROCK TYPES & ALTERATION			∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	P.O.D.	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
			ND		475		45×2 60 45×3+80×2	1/10×2 6" 1/10+1/20×4	qtz-chl-py×2 qtz qtz-chl×5	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5	Tube did not look.	[illegible] 467½	93	23	33691				.05
			ND		480		45 50 35 20 45 45	1/2 1/10 1/10 1/8 1/4 1"	qtz-cp qtz-cp qtz-chl (py) qq-hem qtz (chl) (py) qtz-qq	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		475	[illegible]	57	[illegible]				.12
			ND		490		45×3 40 50×2	1/10×3 1/10 1/10×2	qtz-chl (py)×3 qtz-cp qtz-chl (py)×2	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		483	90	67	33693				.10
			ND		500		45 60	1/2 2"	qtz-chl qtz-chl (vug)	0, 10, 20, 30, 40, 50, 60, 70, 80, 90	<.5		493	98	70	33694			3320	.05
		E.O.H. 503'					15 45×5	2" 1/10×5	qtz-ser-cp qtz-chl (py) (cp)×5	0, 10, 20, 30, 40, 50, 60, 70, 80, 90			503							
		S.D. Bysouth																		

50000 55000 60000 65000

75000 70000 65000 60000 55000 50000

LEWIS LAKE

PLANT SITE

84-07 84-08 84-09 84-10

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,452

PURPLE GROUP
MINERAL CLAIMS
GIBRALTAR MINES LIMITED
23-NOV-83 SCALE=1:12000

0 1 2 3 4
FEET X 1000
0 500 1000 1500
METRES

FIGURE 2