87-56-15798

DIAMOND DRILL REPORT

ON THE

SAWMILL GROUP

Cariboo Mining Division

93 B/8W

(Latitude 52° ~~30'~~ 28.3', Longitude 122° ~~15'~~ 16.4')

OWNER AND OPERATOR

GIBRALTAR MINES LIMITED

McLEESE LAKE, B.C.

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Submitted: February 25, 1987

TABLE OF CONTENTS

1 INTRODUCTION 1

2 MINERAL CLAIMS 1

3 GEOLOGY 2

4 DRILL PROGRAM 3

4.1 Objectives 3

4.2 Results 4

4.3 Interpretation 6

5 STATEMENT OF EXPENDITURES 7

6 CONCLUSIONS 9

7 BIBLIOGRAPHY 10

FIGURES

Figure 1. Area Location Map.....(In Text)

Figure 2. Drill Hole Location Map.....(In Pocket)

Figure 3. Ore Outline 2690 Elevation.....(In Pocket)

Figure 4. Sawmill Group Claim Map.....(In Pocket)

APPENDICES

APPENDIX I. Statement of Qualifications

APPENDIX II. List of Abbreviations

APPENDIX III. Drill Logs

86-21 86-27

86-22 86-28

86-23 86-29

86-24 86-30

86-25 86-31

86-26

1 INTRODUCTION

The Sawmill Group lies about 4.0 miles (6.44 km.) south of the Gibraltar Mines concentrator, along the southern flank of Granite Mountain at approximately the 3500-foot elevation. Access is via a network of old logging roads which link the property to the paved road leading to Gibraltar Mines. General location of the claims 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 1967 and was attributed to a graphitic source rather than sulfide mineralization. Diamond drilling in 1979 by Gibraltar Mines however, revealed that extensive pyrite and chalcopyrite mineralization occurred within the I.P. zone, and by 1981, approximately 30 million tons of open pit inventory had been outlined, which graded at 0.28% total copper and 0.022% molybdenite. More diamond drilling and I.P. surveys followed from 1982 to 1985, but little change was made in the inventory. Most of the above work is covered in Minister of Mines Reports and assessment work reports. (See attached bibliography.)

This report covers a diamond drill program conducted in 1986 within the main area of mineralization. Nine vertical N.Q. diamond drill holes, totalling 4,476-feet (1,364 meters) were completed on the Sawmill Group. Two other holes fell within the Red Group and the Green Group. Drilling was done by J. T. Thomas Diamond Drilling Ltd. of Smithers, B.C. during the period August 15 to August 28, 1986. The whole core was assayed except for a two-inch segment per ten-foot section which was retained and stored at Gibraltar Mines for future reference.

2 MINERAL CLAIMS

The mineral claims of the Sawmill Group are shown in Figure 4 (in pocket). Information on these claims is tabulated below:

CLAIM NAME	RECORD NO.	NO. OF UNITS	ANNIVERSARY DATE
Tim 1	815	2	28 Aug 78
Cole 1	816	9	28 Aug 78
Geoff 1	1009	9	29 May 79
Ryan 1	1048	1	26 Jul 79
Aaron 1	1049	1	26 Jul 79

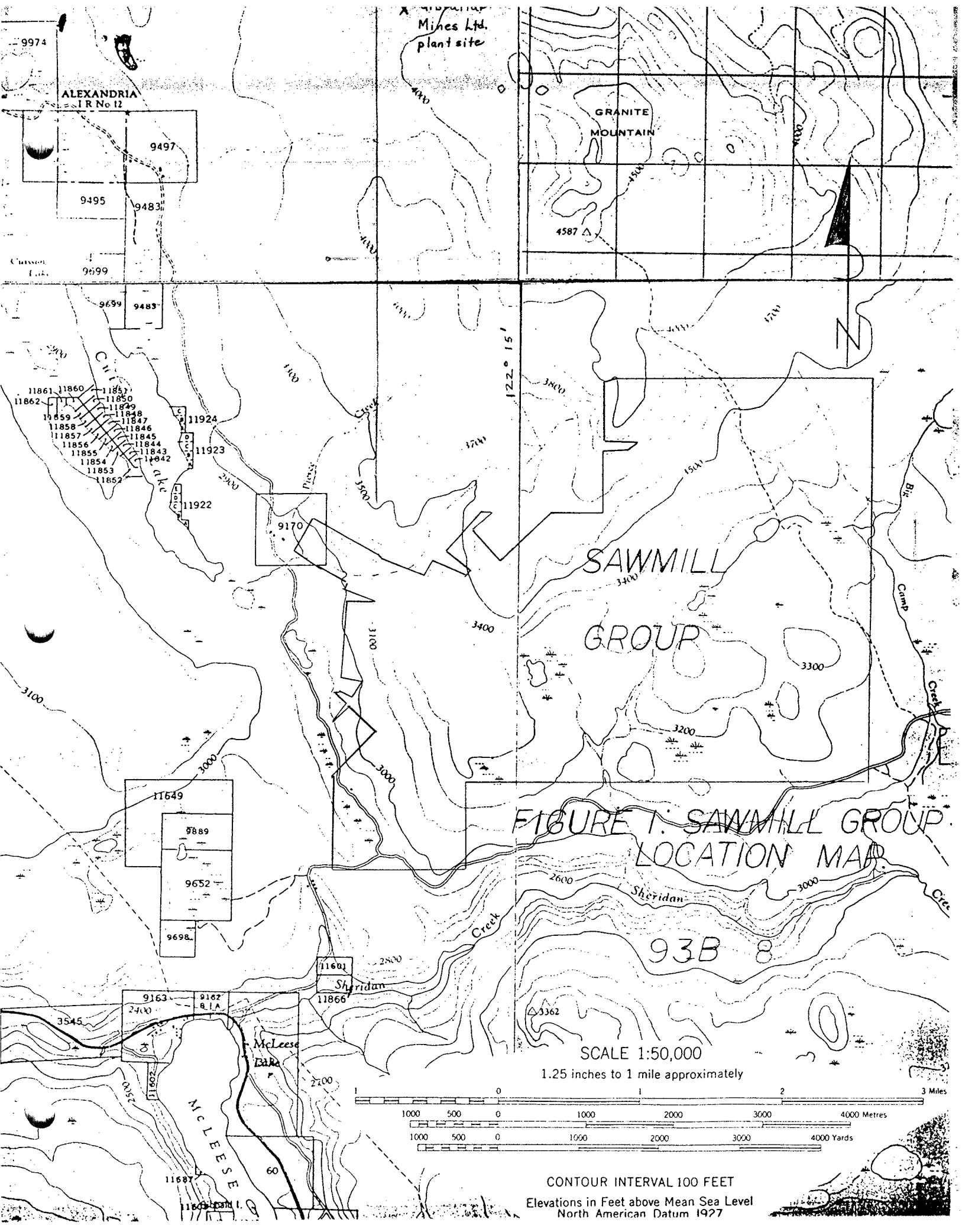

FIGURE 1. SAWMILL GROUP. LOCATION MAP.

Doug 1	1047	3	26 Jul 79
Brent 1	1330	6	14 Nov 79
Barb 1	1329	12	14 Nov 79
Janis 1	1331	3	14 Nov 79
Kate 1	3799	12	29 Jun 81
WD 1	3800	6	29 Jun 81
Bruce 1	3801	12	29 Jun 81
Paul 1	3802	12	29 Jun 81
Sheridan 1	4068	9	15 Sep 81

3 GEOLOGY

The Sawmill Group covers a broad contact zone formed between the Permian Cache Creek Group and the Upper Triassic Granite Mountain pluton. 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 pluton. The plutonic rocks underlying the Sawmill Group consist mainly of diorites of variable texture and composition which have been collectively referred to as the Border Phase Diorite. As the name implies, an assimilative origin is assumed for these rocks. The actual contact zone, which is about a mile wide, consists of a bewildering array of dioritic rocks and recrystallized andesitic and dacitic rocks of the Cache Creek Group, all having a similar composition and texture. To add to this complexity, two other plutonic rock types have been recognized along the northwestern side of the claim group. One is a white quartz porphyry which has been interpreted to be a hypabyssal intrusion related to some period of acidic vulcanism. It forms a small body along the northeast side of the Sawmill ore zone, and also occurs as small dykes scattered throughout the property. The other is a quartz diorite which forms a large body along the northern edge of the deposit. It is correlative with the Mine Phase Quartz diorite which is the host rock for the Gibraltar ore body, and is of particular interest because it is closely associated with the best grade mineralization of the Sawmill ore zone.

A large pyrite zone has been outlined within the Sawmill Group. It covers all rock types but appears strongest along the Cache Creek side of the contact. Chalcopyrite and molybdenite occur throughout the pyrite zone and in a general way the copper and molybdenite grades increase as pyrite concentrations decrease. In the Sawmill ore zone, which is located along the northwestern edge of the pyrité zone, the best grade ore occurs when the pyrite concentrations decrease to below three percent. This figure is taken as the boundaries of the pyrite zone.

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 at Gibraltar. This has been 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 sulfide end of the pyrite-chalcopyrite zoning system.

Structural controls have not yet been worked out for the Sawmill ore zone. Much of the ore is confined to westerly and northwesterly striking shear zones which dip southerly, but the gross configuration of rock units and ore types also suggest fold structures have been operative. In a general way, the ore zone lies along the contact formed between the Mine Phase Quartz Diorite and the older rocks. The ore is not confined to any one rock type but is best developed in the Mine Phase and weakest in the Quartz Porphyry.

The Sawmill ore zone is cut off towards the northwest by a large fault system which has been referred to as the West Boundary Fault. This fault is considered to be a wide complex north trending system with numerous individual zones separating wedges and blocks of displaced rock.

4 DRILL PROGRAM

4.1 Objectives

1. Drill holes 86-21 and 86-22 were located to test the grade of a possible massive sulfide zone situated within the ore body.

2. Drill holes 86-23 to 86-29 were located to determine the westward extent of the outlined ore.

3. Drill holes 86-30 to 86-31 were located to define the northern boundary of the ore.

Note: 1 foot = 30.5 cm

4.2 Results

The drill hole locations are shown in Figure 2. An outline of the Sawmill ore zone is shown in Figure 3. All copper values reported here and in the logs are for total copper. All pyrite concentrations are visual estimates. An outline of pertinent results is provided in the following table and descriptions.

Hole No.	Collar Elev.	Depth	Casing	Ore Intersection From	To	Width	%TCu	%MoS2
86-21	2914'	507'	40'	300	507	207	.22	.013
86-22	2982'	504'	61'	100	180	80	.26	.003
				340	504	164	.31	.013
86-23	2898'	506'	85'	280	350	70	.25	.022
				400	506	106	.37	.022
86-24	2962'	597'	80'	80	140	60	.21	.010
86-25	2958'	507'	47'					
86-26	2903'	507'	66'	66	290	224	.37	.020
86-27	2895'	351'	131'					
86-28	2896'	503'	125'	440	503	63	.28	.010
86-29	2915'	501'	54'	300	430	130	.29	.020
86-30	2972'	497'	30'					
86-31	3001'	507'	65'	65	90	25	.60	.013

Drill hole 86-21 was confined entirely to metavolcanic rocks of the Cache Creek Group. The top of the pyrite zone was intersected at 90-feet and the bottom at 470-feet. The best grade ore occurred below the pyrite zone.

Drill hole 86-22 went through the same sequence of metavolcanic rocks but intersected the Mine Phase Quartz Diorite at 375-feet. The pyrite zone was encountered from the rock surface to 370-feet. The best copper grades were again located below the pyrite zone but in this case in a quartz Diorite host rock.

Drill hole 86-23 was in metavolcanic rocks of the Cache Creek Group down to 112-feet. From 112-feet to 265-feet it went through the West Boundary Fault Zone and into Mine Phase Quartz Diorite. From the base of the fault at 265 feet to the end of the hole at 506-feet, the quartz diorite showed the typical

quartz-gypsum mineral assemblage; that is, low pyrite, abundant chalcopyrite, minor bornite, strong quartz veining and abundant gypsum veins.

Drill hole 86-24 was confined to the pyrite zone but, except for 20-feet of oxide ore, did not indicate any significant ore grade rock. Quartz Diorite was encountered down to 300-feet and then a Border Phase Diorite to the end of the hole.

Drill hole 86-25 also intercepted barren pyrite mineralization. The hole was confined entirely to Border Phase Diorite which had been cut by numerous quartz-sericite-carbonate and quartz-chlorite-carbonate shear zones.

Hole 86-26 went through the West Boundary Fault Zone down to 91-feet and into the Mine Phase Quartz Diorite from 91-feet to the end of the hole. Strong chalcopyrite mineralization was intercepted down to 290-feet. A pyrite zone was encountered from 230- to 320-feet.

Hole 86-27 also went through the West Boundary Fault Zone and into the Mine Phase Quartz Diorite at 289-feet. Unfortunately, the hole was abandoned at 351-feet just as the quartz-gypsum zone was being intersected.

Hole 86-28 passed through a sequence of Cache Creek Group rocks, including limestone, and into the West Boundary Fault Zone from 390-feet to 468-feet. From 468-feet to the end of the hole at 503-feet, an ore-bearing quartz-gypsum zone was intersected in a Mine Phase host rock.

Hole 86-29 was confined entirely to Mine Phase Quartz Diorite. Two pyrite zones were encountered: one at 160- to 300-feet and the other at 410- to 503-feet. The ore zone was found between the two pyrite zones at 300- to 430 feet.

Hole 86-30 encountered quartz porphyry down to 405-feet and Cache Creek metavolcanics from 405-feet to the end of the hole at 497-feet. Chalcopyrite and molybdenite mineralization was noted throughout the hole but no significant ore grade sections were found.

Hole 86-31 encountered a fine grained diorite, or quartz diorite, down to 91-feet and Border Phase Diorite for the remainder of the hole. The fine grained rock is of particular interest since it contains the only ore grade mineralization found in the hole, and it may represent the outer "chilled" margin of the Mine Phase Pluton.

Oxide and supergene effects appeared negligible in most of the holes. Some supergene enrichment was noted in the upper ore zone of hole 86-22. The near surface ore grade zones found in 86-24 and 86-31 were due to oxide and supergene enrichment.

4.3 Interpretation

The 1986 diamond drill program has confirmed the basic geological model but has changed the previously projected ore configuration. Drill holes 86-21 and 86-22 both indicate an ore zone underlies the pyrite zone and hole 86-22 also indicates the Mine Phase Quartz Diorite liés beneath the pyrite zone. This supports original geological projections for the southern and southeastern side of the ore body which involves a south dipping pyrite zone and underlying ore zone being controlled by the south dipping Mine Phase contact. These holes, however, did not intersect the projected massive sulfide zone which may indicate it has a much steeper dip than originally predicted. Drill holes 86-30, 86-31, 86-24 and 86-25, along with earlier holes, define the north eastern boundary of the deposit, which now appears as a sharp, relatively straight, northwest trending ore cut-off. This interpretation negates some earlier northward ore projections. Drill hole 86-29 also removes some tonnage from the original inventory; this hole is particularly disappointing because it suggests a large area of waste lies between the main ore body and the northwest extension. Drill holes 86-23, 86-26, 86-27 and 86-28, serve to define and enlarge the northwest ore extension, which was discovered last year by hole 85-76. The new ore addition now appears to be about 1,000-feet long and 300-feet thick, with a northwest strike and 40- to 50-degrees southerly dip. The gain in tonnage here would more than compensate for losses experienced elsewhere in the ore body. These holes also delineate the West Boundary Fault Zone and indicate the ore body is cut off by the fault with a possibly large displacement. That is, no indication of the ore body has been found along the west side of the fault zone, neither in this program nor in previous drilling. The fault may be complex with numerous individual zones separating wedges of displaced rock. That part of the fault zone cutting off the ore body has a strike of 350-degrees and a dip of 40-degrees westerly.

5 STATEMENT OF EXPENDITURES

August, 1986 Diamond Drilling, Sawmill Group.

(a) Drilling Costs

Direct Footage Charges:

86-22	504' @ $13.25/foot	=	$ 6,678.00
86-23	506' @ $13.25/foot	=	$ 6,704.50
86-24	597' @ $13.25/foot	=	$ 7,910.25
86-25	507' @ $13.25/foot	=	$ 6,717.75
86-26	507' @ $13.25/foot	=	$ 6,717.75
86-27	351' @ $13.25/foot	=	$ 4,650.75
86-29	500' @ $13.25/foot	=	$ 6,625.00
86-30	497' @ $13.25/foot	=	$ 6,585.25
86-31	507' @ $13.25/foot	=	$ 6,717.75
	4,476'		$59,307.00

Machine Hours
Cat Hours: 11.5 hrs. @ $40.00 = 460.00

Materials Lost
3 NQ Bit @ $508.00 = 1,016.00
Total Drilling Costs $60,783.00

(b) Site Preparation
Aug 15 TD20C 7 hr. @ $80.25 = 561.75
Aug 15 Lowbed 7 hr. @ $60.00 = 420.00 $ 981.75

(c) Vehicle Costs
Rental 4x4, 1986 Pick-up
Aug 14-29 6 days @ $35.40 $ 212.40

(d) Assay Costs
338 Cu - MoS2 assays @ $4.40/assay $ 1,707.20

(e) Supplies
Core boxes: 167 boxes @ $6.00 = 1,002.00
Bags,tags,etc. = 100.00 $ 1,102.00

e) Personnel Costs

Core Logging, Sample Preparation, Interpretation

G. D. Bysouth

Aug 20-22	16 hrs.
Aug 26	4 hrs.
Sep 08-09	16 hrs.
Sep 12-16	24 hrs.
Oct 27-31	40 hrs.
Nov 14	8 hrs.
Nov 17-19	20 hrs.
Nov 26-27	16 hrs.

Feb 11-13/87	24 hrs.		
	168 hrs.	@ $31.00/hr.=	$5,208.00

Field Work and Sample Preparation

E. M. Oliver			
Aug 14	2 hrs.		
Aug 20-22	10 hrs.		
Aug 25-29	16 hrs.		
Oct 6	2 hrs.		
	30 hrs.	@ $19.64/hr.=	589.20
G. Warren			
Aug 15	8 hrs.		
Aug 18-22	19 hrs.		
Aug 26-29	12 hrs.		
	39 hrs.	@ $14.29/hr.=	557.31
B. Locke			
Sep 03	4 hrs.		
Oct 06	2 hrs.		
Oct 27-31	40 hrs.		
	46 hrs.	@ $14.29/hr.=	657.34

Total Personnel Charges		$ 7,011.85
	TOTAL COST	$71,798.20

6 CONCLUSIONS

Although some additional reserves have been outlined, this drill program has not substantially changed the mining feasibility of the Sawmill Zone. It remains at this date, a sub-economic ore deposit.

More drilling is required west of the West Boundary Fault Zone to search for the displaced portion of the Sawmill Zone.

Submitted by: G. D. Bysouth

G. D. Bysouth
Senior Geologist

7 BIBLIOGRAPHY

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   - 1925, pp. 156
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   - 1972, pp. 135

2. Assessment Reports - Gibraltar Mines Ltd., Cariboo Mining Division

   (1) Bysouth, G. D., Diamond Drill Report on the Cole Claim, August 1979.

   (2) Bysouth, G. D., Diamond Drill Report on the Cole Claim, April, 1980.

   (3) Bysouth, G. D., Diamond Drill Report on the Ross Group, November, 1980.

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

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 logged the core and assessed the results of this drill program.

Garry D. Bysouth

Garry D. Bysouth

APPENDIX II. List of Abbreviations

ank	ankerite
bo	bornite
cal	calcite
carb	carbonate
chl	chlorite
cp	chalcopyrite
dissem	disseminated
ep	epidote
foln	foliation
gg	gouge
grn	grained
gyp	gypsum
lim	limonite
mal	malachite
mag	magnetite
py	pyrite
qtz	quartz
rx	rock
ser	sericite
str	strong
stkwk	stockwork
wk	weak
Wt. Q.D	White Quartz Diorite = Leucocratic Phase

Note: 1 foot = 30.5 cm

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-21
SHEET No. 1 of 9

LOCATION SAWMILL ZONE | BEARING - | LATITUDE ~32,276.00 N | CORE SIZE N.Q.W. | LOGGED BY G.D.B
DATE COLLARED 15-Aug-86 | LENGTH 507' | DEPARTURE ~48,757.00 E | SCALE OF LOG 1" = 10' | DATE Nov. 4, 1986
DATE COMPLETED 16-Aug-86 | DIP -90° | ELEVATION ~ 2914.00 | REMARKS Bottom of the pyrite zone occurs @ 470' Quartz Diorite Contact not intersected

BOTTOM DEPTHS: LEACH CAP 0 | LIM. ZONE 0 | 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 %	ROD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
Casing To 40			40								40							
META VOLCANIC UNIT (40'-130') This is interpreted to be a recrystallized sequence of volcanic rx's, chiefly of acidic and andesitic comp.	fs Mod		50	35+45 / 50	1/10 x 2 / 1/5		carb-py x 2 / qtz-tour.		0.5		42 / 45 / 47 / 48	40 / 90 / 90 / 95	13	96051	.09	<.002	.09 / 2870	.05
- a typical type is a fine grn. med. grey equigranular rx consisting mainly of chl and saus. prim - avg. grn size is 2 1/20" - interbanded with this rx are	fs Mod		60				highly broken core		0.5		51 / 54 / 55 / 58 / 60	70 / 55 / 90 / 30 / 40	3	96052	.06	.002		.05
2-10' zones of pale greyish green siliceous zones (acid-dacitic tuff?) and dk green chloritic zones (basalt?) - it should be noted that this rx is quite common along this			70	60 / 30x3 / 50x2	10" / 1/30 x 3 / 1/10 x 2		chl-py (cp) zone / chl-carb-py / chl-carb-py (cp) xx		1.5		66	45 / 90	7	96053	.08	.002		.05
Southern part of the Sawmill Zone - in most respects, it resembles a fine grn diorite			80	35-60 x 7 / 25 / 60 / 60 / 50 / 70 x 2 / 65	1/10-1/20 x 7 / 1/2 / 1/2 / 1/2 / 1/2 / 6"-3" / 1/8		chl-py (cp) x 7 / chl-carb-py (cp) / ser-qtz-py / chl-carb-py / chl-carb-py / qtz-tour (vug) / chl-carb-py		1.5		75	90	33	96054	.10	.002		.10

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-21
SHEET No. 2 of 9

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
- Py is disseminated throughout this unit – only the larger, more distinct veins are reported – some of the veins appear to be breccia filling rather than true veins (ie. angular changes in direction as if around large rx frag'r)	ND		90		5-13 x 5 45 50+30+60 90 20+30+60 25 60	1/20 x 5 1/8 1/20-1/10 x 3 1/4 1/10-1/8 x 3 1/3 1/4	chl-py x 5 chl-py chl-carb-py qtz-carb-py chl-carb-py x 3 qtz-chl-carb-py qtz-chl-carb-py	0 10 20 30 40 50 60 70 80 90	1.5	85	100 98	53	96055	.08	.002	.08 2825	.10
	ND		100		80 90? 60 35 x 10 45+50+35 x 2	1/4 1" 12" 1/20-1/10 1/10-1/20 x 4	qtz-carb-py (cp) qtz-carb-py (cp) qtz-ser-carb-chl-py (cp) chl-carb-py (cp) x 10 chl-carb-py (cp) x 4	0 10 20 30 40 50 60 70 80 90	3.0	92 97	95	53	96056	.12	<.002		.14
	ND		110		5 20-30 x 4 45-40 30 10 60+40	1/20 1/20-1/10 x 4 1/10 x 2 1/2 1/8 1/4-1/8	chl-py chl-carb-py x 4 chl-py (cp) x 2 ser-chl-py qtz-cp chl-carb-py	0 10 20 30 40 50 60 70 80 90	2.5	107	100 90	50	96057	.13	<.002		.10
	ND.		120		60+35 40 5? f' 35 40	1/10 x 2 1/8 1/2 f' 1/8 2"	chl-py x 3 chl-carb-py (cp) chl-carb-py (cp) } some of broken and lost core chl-carb-py chl-qtz-py	0 10 20 30 40 50 60 70 80 90	2.0	113 117 120	50 85	10	96058	.07	<.002		.12
130	ND		130		20+30 2' 50+60 5 60 20 60 5+40+30	1/20 x 2 } 3ons of broken core 1/4 x 2 1/2 1/2 1 1/2 1/2 1/5 x 3	chl-carb-py x 2 qtz-carb x 2 chl-py (cp) qtz-chl-carb-py (cp) qtz-carb-py qtz-carb-py chl-py x 3	0 10 20 30 40 50 60 70 80 90	6.0	122 126	40 95	40	96059	.08	.002		.10
NETA ANDESITE UNIT (130-200') mainly a dk green fine to med grn (1/10-1/10') diortic rx consisting of ~	45 WK		140		35 x 2 40 + 5 + 40 15 x 2 30+45 35 40+80	1/10 x 2 1/8 + 1/10 + 1/3 1/3 x 2 1/8 x 2 1/8 1/10 x 2	chl-py x 2 chl-carb-py x 3 chl-carb-py (cp) x 2 chl-carb-py x 2 chl-carb-py (cp) chl-carb-py x 2	0 10 20 30 40 50 60 70 80 90	4.0	136	95	40	96060	.12	.002	.10 2780	.12

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 86-21
SHEET No. 3 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	Graphic Log Footage	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	Sample Number	% Cu	% Mo		Estimated Grade
~ 20% ep as ragged clots upto 1/3" dia ~ 30% chl ~ 40% saus plag. ~ 10% interstitual qtz	ND	150	40x3 20x2 10x2 5x2 10x2 5-10x4	1/10x3 1/3-1/4 1/10-1/2 1/4+1/3 1/10+1/4 1/20-1/10x4	chl-carb-py (cp)x3 qtz x2 chl-carb-py (cp) x2 chl-carb-py (cp) x 2 chl-carb-py (cp) x2 chl-carb-py x 4		3.5		147	95	47	96061	.09	.002		.10
- grn size and tex. are variable but much of the rx grades to a typical Border Phase Diorite.	ND	160	5 60 40x3 5 35x2 30 20 25x2	1/10 1/4 1/10x3 1/2 1/10x2 6" 1/10 1/10x2	chl-py (cp) chl-ep-py chl-py x3 qtz-py (cp) chl-py x2 qtz-ser-py chl-py chl-py x2		4.5		157	90	77	96062	.07	.004		.08
	ND	170	25x2 70 45 50 45+40 40+10+5 10 20 15 stkwks	1/10x2 1/2 1/10 10" 1/10x2 1/8+1/10x2 1/2 1/2 1/4 12" zone	chl-py x2 ep-py (cp) chl-py (cp) qtz-chl-py (cp) zone qtz-chl-py (cp)x2 chl-py (cp)x 3 chl-py ser-py chl-py chl-py		5.5		167	95	80	96063	.12	.002		.14
quartz porp.	ND	180	15+45 70x2 20 35x2 30-35x2+20x4 40x2 10x3 46	1/8 x2 1/10x2 1/8 1/8+1/10 1/8-1/10x2+1/6x4 1/10 x2 1/10x3 8"	qtz-chl-py x2 chl-carb-py (cp)x2 qtz-py-cp qtz-chl-py (cp) qtz-chl-py x 6 chl-py-cp x 2 chl-py x 3 qtz-chl-ep-py (cp) zone		5.0		177	98	80	96064	.09	.002	.10 2735	.16
	ND	190	10+20+40 20 20 15 60+15 10 15	1/10x2+1/20 1/3 1" 1" 1/4+1/8 1/8 1/3	chl-carb-py (cp) x 3 qtz-chl-carb-py qtz-ser-py qtz-ser-py chl-ser-py (cp) x2 qtz-chl-py qtz-chl-py		5.0		185	95	40	96065	.07	.004		.12
	ND	200	40 30+50 80x2 90 45x3	1/4 1/10x2 1/8+1/20 1/4 1/10x3	qtz-chl-py (cp) qtz-chl-py x2 ep-py x2 ep-py (cp) py-chl x3		2.0		195	95	73	96066	.12	.006		.08

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-21
SHEET No. 4 of 9

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
BRECCIA UNIT (200'-279') - this is a complex unit which may be a sheared and rex. volcanic conglamerate, or a volcanic	ND		210	35	1/3	chl-ser-py	0-90	2.0	205	98	40	96067	.12	.002		.12
				30	1/10	chl-py				90						
				15	1/3	qt3-carb-py(cp)										
				50	1/4	qt3-chl-py										
				45	1/3	chl-carb-qt3-py-cp										
				45	16'	qt3-chl-py										
polymictic breccia. in part, it is the typical ep-chl-bx found in other holes, consisting of ragged ep clots up to 1" dia in a swirled chl. matrix but also contains	ND		220	30x2	1/3x2	chl-carb-py(cp)x2	0-90	3.0	211	60	53	96068	.14	.002		.10
				30x2	1/20x2	chl-py x2			215	85						
				5	1/4	qt3-carb-py(cp)										
				30+20	1/4+1/10	qt3-chl-py x2										
				45	1/4	qt3-py										
				10x3	1/10x3	qt3-chl-py x2										
rounded Q.F.P. frags, and rounded diorite frags up to 6" dia. plus other vx frags (ie qt3 pebbles	ND		230	45	1"	qt3-py	0-90	3.0	225	98	30	96069	.13	.004	.11 2690	.14
				45+90+30	1/10x2	qt3-chl-py x3										
				50	1/2	qt3-ser-py										
				45	1/2	qt3-chl-ser-py(cp)										
				30	1"	qt3-chl-carb-py(cp)										
				90+50	1/10x2	qt3-chl-py(cp)x2										
	ND		240	70	1/8	qt3-chl-py	0-90	3.0	235	90	67	96070	.12	.004		.12
				50x2+40	1/10x2	qt3-chl-py x2										
				40	1"	qt3-py(cp)										
				40	1/10	qt3-chl-py										
				90x2+40	1/10x2	qt3-chl-py										
				30+5+40	1/8x3	qt3-chl-py(cp) x3										
				15+40	1/10x2	qt3-chl-py x2										
	ND.		250	30+45+60x4	1/10-1/8x6	chl-carb-py(cp)	0-90	3.5	245	95	53	96071	.12	.004		.14
				90x2	1/10x2	chl-carb-py x2										
				35	1/10	chl-py										
				20+40	1/3+1/10	qt3-chl-carb-py(cp) x2										
				40	1/4	qt3-chl-py(cp)										
				35+10	2"+1/2	chl-ser-carb-py(cp) x2										
				90	1/8	qt3-chl-py(cp)										
	ND		260	90	1/8	qt3-chl-ser-py	0-90	6.0	251	90	67	96072	.12	.004		.15
				10+15	1/3+1/2	qt3-chl-carb-py(cp) + qt3-py(cp)										
				10+5+2	1/3+1/8x2	qt3-chl-py(cp) x3			257	95						
				10x2	1/10x2	qt3-chl-py(cp)x2 (Vuggy)										
				45+35+20	1/8x3	(illegible) (Carc)										
				45	1/10	qt3-chl-py(cp)										
				30+40	1/10x2	qt3-chl-py										

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-21
SHEET No. 5 of 9

BOTTOM DEPTHS: LEACH CAP | LIM. ZONE | 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 %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	ND	270	20 40 90 80 20+50	1/8 1/4 2" 1" 1/4 x 2	chl-ser-py chl-ser-py qtz ep-py chl-carb-py (cp) x2	0 10 20 30 40 50 60 70 80 90	3.0		261 267	90	40	96073	.14	.004	-13 26 45	.12
279	80 Mod.	280	10 60 60x2+30x2 10 45x3 50	1/8 1/4 1/16 x 4 1/2 1/16 x 3 1/4	qtz-chl-py qtz-carb-chl-py qtz-chl-py x 4 qtz-carb-py chl-carb-py (cp) x 3 chl-carb-py	0 10 20 30 40 50 60 70 80 90	2.5		277	98	37	96074	.20	.006		.10
BANDED QUARTZ SER.-CHL.-CARB. ZONE (279'-309') bands and laminae of qtz-carb up to 1/2" thick in a finely laminated background of ser-chl-carb-qtz ∴ this may be a meta. finely banded tuff of dacite to rhyolite composition. - carb. is brown weathering	70 str.	290	70-80	12'	qtz-carb-chl (py) (cp) zone (cp-py disem along folo planes and as massive clots within qtz-carb veins)	0 10 20 30 40 50 60 70 80 90	4.5	highly broken 99' zone but no det. fault	284 287	90 100	3	96075	.14	.007		.16
	80 str.	300	80	9'	qtz-carb-chl-ser (py) ((cp)) zone (cp-py as above)	0 10 20 30 40 50 60 70 80 90	4.0		297	95	27	96076	.13	.005		.12
grades to a ep-chl ox.	80 str.	310	80 50x2	9' 1/3 x 2	chl-carb-ep (py) (cp) chl-ser-carb-py x2	0 10 20 30 40 50 60 70 80 90	3.5		307	95	33	96077	.30	.013		.18
META ANDESITE UNIT (309'-333') Same as 130-200'	80 str.	320	45x3 60x2+30 50x4 60+30+45 30 60 30-40 x 5 60+20	1/10 x 3 1/16 x 3 1/10 x 4 1/8-1/10 x 3 1/4 1/2 1/10 x 5 1/2 x 2	qtz-chl-py-cp x 3 qtz-chl-py (cp) x 3 qtz-chl-py x 4 qtz-chl-py x 3 chl-carb-py qtz-chl-py x 5 qtz-carb-ser-chl (cp) x 2	0 10 20 30 40 50 60 70 80 90	5.0		317	95	70	96078	.17	.008	.19 2.600	.14

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-21
SHEET No. 6 of 9

BOTTOM DEPTHS: LEACH CAP | LIM. ZONE | SUPERGENE

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	REMARKS	Footage Discon.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	ND		330		10 +30±2 60 60+35+70 20-30×6 25 20-30×5	1/2 + 1/4 + 1/8 3" 1/4 + 1/10±2 1/20-1/8×6 1/3 1/10-1/8×5	qtz-chl-py(cp) ×3 qtz-chl-py(cp) qtz-chl-py(cp) ×3 qtz-chl-py ×6 chl-cp-py(cp) qtz-chl-py(cp) ×5		4.5		327	98	53	96079	.17	.005		.14
333' CHL-EP. BRECCIA (333'-383') rounded to angular clots of cp up to 1/2" dia in a chl. rich matrix - in places this is a dioritic matrix - fairly typical rx. type.	ND		340		30+35 20 5+20 35 20×2 30×2 25×6 60	1/10×2 4" 1/10×2 1/8 1/10×2 1/10×2 1/10×6 1/10	qtz-chl-py×2 qtz(chl)-py qtz-chl-py×2 qtz-chl-py qtz-ep-py(cp) qtz-chl-py×2 qtz-chl-py(cp) ×6 qtz-chl-py		4.0		337	98	50	96080	.15	.004		.10
	ND		350		20×2 30×2 5+30 10+30 90?	1/10×2 1/10×2 1/8×2 1/8+1/4 1/4	qtz-chl-py×2 qtz-chl-py×2 chl-carb-py(cp) ×2 qtz-chl-py(cp)×2 chl-cp-py(cp)		3.5		347	95	53	96081	.31	.029		.14
	ND		360		10-30×10 50 40 30+40 5+45 10×2 45 25	1/20-1/10×10 1/3 1/8 1/3+1/4 1/8+1/4 1/3-1/8×2 1/4 1/3	qtz-chl-py ×10 qtz-chl-py(cp) qtz-mlo qtz-mlo qtz-chl-py×2 qtz-chl-py ×2 qtz-chl-py chl-carb-py(cp)	vuggy mlo-rich section	4.0		357	95	76	96082	.29	.038	.23 2ES	.18
	ND		370		80 50+70 60 40+35×2 5×2 30+10+40 80+90 35×2 20+15+50	1/2 1/4 + 1/8 1" 1/4 + 1/10×2 1/3×2 1/4×2 1/3×2 1/4×2 1" - 2" - 1/3	qtz-carb-chl-py-cp qtz-carb-py ×2 chl-carb(py)(cp) 3ors chl-carb-py(cp) ×3 qtz-carb-cp-py×2 qtz-carb-py-cp ×3 qtz-carb-py-cp×3 qtz-chl-carb-py(cp)×2 qtz-chl-carb-py(cp)×3		5.0		367	95	73	96083	.22	.010		.22
	ND		380		5+45×4 45 35 15 45×5 ? 10 45	1/10×5 1/10 3" 1/2 1/3+1/10×4 3" 1/4 1/4	qtz-chl-py(cp) ×5 qtz-chl-py(cp) qtz(chl)-py qtz(chl)-py qtz-chl-py(cp) ×5 mqa-py nodule? qtz-carb-py chl-carb-py		6.0		377	98	87	96084	.13	.008		.14

GRID______

GIBRALTAR MINES LTD.

HOLE No. 86-21
SHEET No. 7 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	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 %	RQD	Sample Number	% Cu	% Mo		Estimated Grade
383 META ANDESITE UNIT (383'-507') same as 130-200'	ND		390		80 80+60 30 40 45 40x3 65 20 45	1/2 1/10 1/4 1/10 1/4 1/8x3 1/3 1/10 1/4	qtz-py qtz-chl-py x2 qtz-chl-py qtz-chl-py qtz-py (cp) qtz-chl-py x 3 qtz-carb-chl-py qtz-chl-py carb-chl-py-(cp)		3.5		387	95	57	96085	.08	.004		.12
	ND		400		10 45 50+40x2 10+40x2 30	1/2 1/4 1/10x2 1/8+1/4+1/10 1/2	carb-chl-py ((cp)) ep-py (cp) carb-chl-py qtz-chl-ep-py x 3 qtz-chl-ep-py		4.5		397	95	30	96086	.12	.003		.10
	ND		410		10 5x3 20 20 15+10 x2 20 5 40x2	1" 1/2 + 1/8x2 2" 2" 3"+2 1/2x2 1" 3" 1"+1/4	qtz-py (Mo) qtz-chl-carb-py (cp) x 3 qtz-py (cp)(Mo) qtz-py qtz-(chl)(carb) py (cp) x 3 qtz-chl-ser-py-cp qtz ((Mo)) qtz (chl)-py (cp) x 2 } strong qtz system		6.0		407	95	73	96087	.35	.035	.17 2510	.25
meta-basalt? - 30+% blk augite, 40% chl and ~ 20-30 interstitual plag.	ND		420		? 40 5x2 5 90 x2 90+70 30 35x2 + 40	1" 1/10 1/2 + 1/3 1" 1/8 x2 1/3 + 1/10 1/2 1" x 3	qtz-py (cp)(Mo) qtz-chl-ep-py (cp) qtz-py x 2 qtz-py (cp)(Mo) ser-py-(cp) qtz-chl-ser-py (cp) x 2 chl-carb-py (cp) qtz x 3		3.5		417	93	80	96088	.16	.022		.14
as above	ND		430		40+70 60 35 20 45+30+60x5	1/3 + 1/2 1/4 1/2 1/4 1/20-1/8 x 7	qtz x 2 ser-[illegible]-py ep-qtz-chl-py ep-py ep-py (cp) x 7		2.5		427	95	83	96089	.04	.003		.10
	ND		440		15 60 5 5-10 x 3 70 40-45 45x2	1/2 3" 1/4 1/20-1/5 x 3 1/10 1/10 x2 1/10 x 2	chl-carb-py qtz-carb-chl-py (cp) chl-carb-py ep-qtz-py (cp) x3 ep-carb-py (cp) ep-carb-py (cp) x 2 ep-qtz-py x 2		3.0		437	98	83	96090	.19	.005		.10

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-21
SHEET No. 8 of 9

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
there appears to be a progressive change with depth to a more plutonic-looking rx. -the rx also became harder with short siliceous sections	ND		450		40-50 5-10 30 45 60 70 + 45 + 35 60 + 30 45-60 x 10	1" ¼ 1/10 1" ½ 1/10 1/8 + 1/10 1/8-1/8 x 10	qtz-chl-carb-(hlo)(cp) zone qtz-carb-py (cp) qtz-ep-cp qtz-ep-py(cp) qtz-chl-py qtz-ep-py qtz-ep-py ep-py x 10	0 10 20 30 40 50 60 70 80 90	3.0	447	95	63	96091	.13	.028	.15 2465	.12
-the rx at the bottom of the hole is a typical Border Phase Diorite - grn size - 1/10"-1/8" -	ND		460		80 35x2+60 15 20 40 35 45	1/8 1/8x3 ½ 1/8 2" ¼ 1"	chl-carb-py ep-py x 3 ep-carb-py qtz-chl-py chl-(cp) qtz-chl-py chl-py (cp)	0 10 20 30 40 50 60 70 80 90	3.0	456	100	80	96092	.14	.003		.10
	45 Mod		470		35 + 40 40+50 30 50 45 35x 7 45 50	1/8 x 2 1/10 x 2 1" 2" 12" 1/10x5+¼ 2" 3'	chl-carb-py (cp) x 2 chl-carb-py (cp) x 2 qtz-carb-py-cp qtz-ser-chl-py qtz-chl-py-carb (cp) zone qtz-(py) x 6 + qtz-chl-carb-py (cp) qtz-chl-py (cp) chl-carb-py (cp) zone	0 10 20 30 40 50 60 70 80 90	4.5	466	90 80	23	96093	.25	.009		.20
pale grn fine grn siliceous zone	50 WK		480		80 10 50 60	2" ¼ 12" 2"	qtz-py qtz-py qtz-chl-py (cp) zone chl-carb-cp	0 10 20 30 40 50 60 70 80 90	2.5	471 477	95	27	96094	.44	.026		.16
	70 WK		490		80 60 15 40+70 90 60 60	2" 8" ½ ½ + ¼ 1/10 14" 3" ¼	chl-py (cp) chl-carb-py (cp) carb-carb-cp chl-carb-mag (cp) x 2 chl-carb-py (cp) chl-carb-py (cp) zone qtz-mag qtz-chl	0 10 20 30 40 50 60 70 80 90	1.5	487	95	45	96095	.40	.015		.20
	80 Mod		500		10 x 2 70 30 20 x 2	1/10 x 2 1" ¼ 1/10 x 2	qtz-chl-py x 2 chl-carb-py qtz-py qtz-chl-py	0 10 20 30 40 50 60 70 80 90	1.5	497	95	17	96096	.23	.007	.30 2420	.15

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-21
SHEET No. 9 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation, Alteration, Footage, Structure	Vein ∠ 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
EOH 507 B.D.B.	60 WK		90+30×2 90 90 20 15	1/16×3 1/4 1/10 1/8 1/3	cp-carb-cp ×3 carb. cp cp-carb-cp chl-carb-cp chl-carb-py	0 10 20 30 40 50 60 70 80 90	1.0		507	70	96097→		.28	.004		.30
						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									.26 2375	
						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. 86-22
SHEET No. 1 of 8

LOCATION SAW MILL ZONE | BEARING - | LATITUDE ~ 32,604.00N | CORE SIZE N.Q.W | LOGGED BY G.D.B
DATE COLLARED 17-Aug-86 | LENGTH 504' | DEPARTURE ~ 49,080.00E | SCALE OF LOG 1" = 10 | DATE Oct. 27, 1986
DATE COMPLETED 17-Aug-86 | DIP -90° | ELEVATION ~ 2982' | REMARKS * see page 2 - base of pyrite zone @ ~ 310'
- Quartz Diorite intersected at 375'

BOTTOM DEPTHS: LEACH CAP -; LIM. ZONE 72'; SUPERGENE 180'

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation/Alteration	Footage	Stockwk	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	REMARKS	Footage Blocks	Estimated Core Recovery %	ROD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
Casing To 61'			60															
61											61							
EPIDOTE-CHLORITE BRECCIA (61-125') a complex rx unit consisting mainly of rounded to subangular clots of epidote-rich material in a largely dark green chloritic matrix. The clots range from 1/16-2" dia and often are ragged, corroded and embayed in the chloritic matrix. The chloritic matrix also appears fragmental. Other fragments are present but form <20% of the rx - mainly quartz, aphanite, dacite, fine grn diorite - also present are thin (1/2") beds of fine grn med green finely laminated material - bedding @ 70°-80°	80 WK		70		70+60+90 70×4 70 45×2	1/16×3 1/16×4 1/8 1/8×2	qtz-chl-py-lim ×3 qtz-chl-py-lim ×4 ser-py-lim chl-carb-py(cp)		3.5	- weak lim. zone - weak supergene	67	90	40	10774	.10 .01 ox	.002	10 29 ppb	10
	80 WK		80		35 45 40 20	2 1/2 1/10 1/4 1/2	chl-carb-py-lim chl-carb-py chl-carb-py (qtz)-chl-py(cp)(cc)		4.0		74	90	40	10777	.14 020 ox	.002		.12
	80 WK		90		25×2 35×20 20×4 40 20 30 20	1/10×2 1/10×2 1/20-1/10×4 1/10 1/8 1/8 1/4	qtz-carb-py(cp)×2 chl-carb-py-(cp)×2 chl-carb-py-cp×4 qtz-chl-py-cp qtz-chl-py-cp qtz-chl-py(cp) qtz-chl-py-cp		5.5	cp appears to be confined to the x-cutting veins - mainly those with carb - and appears equiv to the disseminations	84	90 98	93	10778	.10 .01 ox	.002		.18
	70 WK		100		10 60 15 80 20 20 60×2 30	1/10 1/2 1" 1"× 1/10 2" 1"+1/8 1/8	qtz-py-cp qtz-py(cp) qtz-carb-py(cp) cp-(cp)(cc) chl-py (qtz)ser-py-cp carb-chl-py-cp×2 qtz-py		3.0		94		90	10779	.17 01 ox	.002		.20

GRID ______

GIBRALTAR MINES LTD.

ROCK TYPES & ALTERATION	∠ to Core Foliation	Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	Fracture Angle to Core Axis - Frequency -	Estimated % Pyrite	Remarks
∴ This is a common rock in the Sawmill Zone and is considered to represent a meta. volcanoclastic unit - prob. a volcanic	60 WK. Mod	110	5 40x5 35 20 15-20 45 15 35x2	1/8 1/10 x5 1" 1/10 1/4 1/10 1" 1/8x2	qtz-carb-py-cp qtz-chl-carb-py-cp x5 qtz-ser-py-cp(cc) qtz-chl-py(cp) qtz-chl-py(cp) qtz-carb-py(cp) qtz-chl-py qtz-carb-py x2	0 10 20 30 40 50 60 70 80 90	5.5	* This hole intersects a strong py. zone which has an erratic copper grade - the best grade occurs at the base of the py zone (py ≤ 3.0%) -
conglomerate. ∴ this unit contains finely dissem py throughout - only the larger x-cutting veins are recorded.	60 WK	120	40 45x2 60 45x2 30 20+60+50 5+60+50 70+50 10	1/4 1/10x2 1/8 1/8x2 1/4 2"+1/4x2 1/4x3 1/2+1" 1/2	qtz-chl-py qtz-carb-chl-py (cp) x2 qtz-carb-py(cp) qtz-chl-py(cp)x2 qtz-chl-carb-py(cp) qtz-chl-py-cp x3 qtz-chl-carb-py-cp qtz-chl-carb-py-cp x2 qtz-carb-chl-py-cp	0 10 20 30 40 50 60 70 80 90	5.0	ie uniform copper grade + higher Mo - the best ore occurs at the bottom 50' of the hole.
DARK GREEN META ANDESITE	60-70 WK	130	20+30 15 30 60 50 45 60 60	1/4 x2 1/8 1/10 1" 1/4 1/4 1/2 1/4	chl-carb-py x2 qtz-chl-carb-py-cp qtz-carb-vug (cc) qtz-carb-py qtz-cp qtz-carb-py qtz-carb-chl-py qtz-carb-py	0 10 20 30 40 50 60 70 80 90	4.0	
(125 - 170') - mainly a dense dark green fine grn to aphanitic rx of prob. andesitic composition. - also contains beds	60 WK	140	50 60 45 60 45 20x2 60x2 60x2	1/4 1/8 1/3 1/3 1/10 1/4 + 1/2 2"x2 1"x2	chl-carb-py (cp) chl-carb-py (cp) qtz-chl-carb-py (cp) chl-carb-cp qtz-chl-carb-cp qtz-chl-carb-py (cp) x2 chl-carb-py (cp) x2 chl-carb-py (cc) x2	0 10 20 30 40 50 60 70 80 90	5.5	
similar to the ep-chl bx. above but not as coarse grn'd. - This rx is considered to be a fine grn volcanoclastic unit of chiefly andesitic comp.	55 WK	150	25 50x2 40 5-10 20 60+40 45+60+50 30+45+50	1/3 1/2x2 1/20 1 1/2 1" 1" x2 1/3-1/4 x3 1/4x3	chl-carb-py chl-carb-py x2 chl-cp qtz carb-py (cc) carb-py (cp) x2 carb-chl-py x3 chl-carb-py (cp) x3	0 10 20 30 40 50 60 70 80 90	4.5	
- contact with overlying unit appears gradational over ~30'	50 Mod.	160	5x2 60 40 30+70+45 15x3 50 60 60+3+20	1/8x2 2" 1/2 1/8x3 1/4-1/2 x3 2" 6" 1/3-1/2 x4	carb-py x2 chl-carb-py qtz-carb-py carb-py (cp) x3 qtz-carb-py x3 qtz-ser-carb-py (cp) qtz-chl-py qtz-carb-py x4	0 10 20 30 40 50 60 70 80 90	7.0	

BOTTOM DEPTHS: LEACH CAP ____ LIM. ZONE ____ SUPERGENE ____

Estimated Core Recovery % (in order down the sheet): 98, 95, 90, 90, 90, 95

Footage Blocks	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
104 - 114	97	10780	.21 .01ox	.002	.15 2870	.20
114 - 125	73	10781	.44	.002		.35
125 - 135	33	10782	.12	.002		.15
135 - 140 - 147	20	10783	.25	.002		.18
147 - 157	17	10784	.28	.008		.12
157 -	23	10785	.32	.002	.28 2825	.12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-22
SHEET No. 3 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 Discon.	Estimated Core Recovery %	R O D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
170	50-70 Mod	170	60 70 x 3 80 60 x 7 50 10 20.	1" 1/20 x 3 2" 1/3-1/10 x 7 1" 2" 1/10	qtz-ser-py (cp) chl-cp-py x 3 qtz-carb-py qtz-carb-py x 7 qtz-carb-py chl-carb-py chl-carb-py (cp)	0 10 20 30 40 50 60 70 80 90	6.0	- a zone of highly broken rx and last core occurs at 175-210 but no fault gouge is present - this may be a shatter zone rather than a fault.	162 167	80 98	D	10786	.24	.004		10
FINE-MED. GRN META ANDESITE UNIT (170-285) a complex unit consisting of several rock types all of andesitic to dacitic composition but varying in texture - most common are,	50 Mod	180	10 x 2 5 70 20 20 + 20	1/3-1/6 1/8 1/2 1/2 1" + 1/2	qtz-chl-carb-py x 2 chl-py (cp) carb-py (cc) qtz-py qtz-carb-py x 2	0 10 20 30 40 50 60 70 80 90	5.5		176	80 95	3	10787	.20	.002		.12
(1.) a cp-chl. bx similar to 61'-125' but finer frags (~1/2")	50-60 wk.-Mod		10 + 5 40 50 60 + 30 40 x 2 25 5 30 + 15 + 60 x 2	1/3 + 1/4 3" 1/4 1/4 x 2 1/8 x 2 1/6 1/2 1/4 + 1/3 = 1/4 x 2	chl-carb-py x 2 ser-chl-py (cp) qtz-py-cp qtz-py (cp) x 2 chl-carb-py (cp) x 2 qtz-py (cp) qtz-py qtz-chl-carb-py x 4	0 10 20 30 40 50 60 70 80 90	7.0		183	90	10	10788	.19	.004		.10
(2) a dk green andesite, same as 125-170		190	20 + 5	1/3 x 2	qtz-carb-py (cp) x 2				190							
(3) a grey med. grn dacite? consisting of qtz + spar + chl	50 ?		45 10 10 x 2 9 x 2	3" 1/3 1/4 x 2 1/3 x 2	chl-carb-py (cp) chl-carb-py qtz-carb-py x 2 qtz-carb-chl-py x 2	0 10 20 30 40 50 60 70 80 90	6.0		194	65 55	3	10789	.13	.002	.20 2780	.08
(4) a med. green fine grn. andesite (1/20"-1/16" dia grn size) which in places approaches a diorite - contacts are generally obscur - units are ~1-10' thick - most common is unit 4.	50 Mod	200 210	20 x 4 15 x 3 40 x 5 3	1/20-1/10 x 4 1/10 x 3 1/10 x 5 1/4	ser-py x 4 carb-chl-py x 3 qtz-chl-py x 5 carb-py	0 10 20 30 40 50 60 70 80 90	4.0		201 203 206 210	50 50 65	3	10790	.10	.006		.08
; This is considered to be an interbedded sequence of volcano-clastic rx.s		270	40 20 x 2 35 25 x 3 10 + 15 x 2 50 x 3 5	1/8 1/3-1/2 1" 1/4 x 3 1" + 1/3 x 2 1/6 x 3 1/2	chl-carb-py chl-carb-py x 3 qtz-ser-py chl-carb-py (cp) x 3 chl-carb-py x 3 chl-py x 3 chl-carb-py	0 10 20 30 40 50 60 70 80 90	7.0		217	95	23	10791	.18	.003		.10

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-22
SHEET No. 4 of 8

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Discrd.	Estimated Core Recovery %	R Q D	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
	ND		230	5+15±2 50 30 ×2 5 ×3 15+5 50 5+10 ×2	1"+¼×2 ⅓ 3"+½ ¼×3 2"+½ 1" ⅛+⅓ ∧ 2	qtz-chl-carb-py ×2 ser-py (cp) qtz-ser-py (Mo) ×2 chl-carb-py ×3 ser-py ×2 ser-py (cp) chl-carb-py ×3	0 10 20 30 40 50 60 70 80 90	6.0	227	95	20	10792	.32	.008		.10
	ND		240	15 ×2 15 20+50 20 45	½×2 ½ ⅓×2 ¼ ½	chl-carb-py ×2 chl-carb-py (cp) chl-carb-py ×2 chl carb-py chl-carb-py	0 10 20 30 40 50 60 70 80 90	6.0	235	95	13	10793	.20	.004		.12
	ND		250	25×3 5 18 ×2 5×2 50×2	1/10×3 1" 3' ½ × 1 ½×2 ¼×2	chl-py×3 carb-py gg-bx qtz-chl-carb-py ×2 chl-carb-py ×2 chl-carb-py ×2	0 10 20 30 40 50 60 70 80 90	5.0	244 247	55 40	47	10794	.22	.006	.20 2735	.08
	ND		260	35 5×3 60×3 50×2 35×2 45 5+45 30?	1/8 ⅛×3 ½ + ⅓ + ¼ ½+2" ⅛×2 ¼ ¼+⅓ 2"	chl-py chl-carb-py ×2 chl-carb-py×3 chl-carb-py×2 chl-carb-py ((cp)) ×2 chl-carb-py (cp) chl-carb-py×2 carb (qtz) py (cp)	0 10 20 30 40 50 60 70 80 90	5.6	257	95	43	10795	.12	.004		.12
	ND		270	20 20 40 5 20-40 5×2+10 60	2" ¼ ¼ ½ 6' ⅓ - ⅙ + ½ 6"	chl-carb-py (cp) chl-carb-py chl-carb-py chl-carb-py chl-carb-py (cp) chl-carb-py (cp) ×2 chl ser-py 3cm	0 10 20 30 40 50 60 70 80 90	5.5	267	95	40	10796	.14	.008		.12
	ND		280	60 18×3 30-40×5 50×2 5 20×2 40×3 20+60	⅛ ¼-½×3 ¼-⅒×5 ½+¼ ⅛ ½+⅕ ⅒×3 ½+⅛	qtz-carb-py chl carb-py ×3 chl-py (cp) ×5 chl-carb-py (cp) ×2 carb-py-cp chl-carb-py (cp) ×2 chl-carb-py (cp) ×3 carb-py ×2	0 10 20 30 40 50 60 70 80 90	5.0	277	90	47	10797	.22	.004		.14

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-22
SHEET No. 5 of 8

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
285 FINE TO MED GRN META ANDESITE	70 Mod	290	20 60 x2 5 x2 20+5 5 15 x3 5 x2 5 x4	3/4 1/3 + 1/4 1/4 x2 1/4 x2 1/8 1"+1/8 x2 1/3 x2 1/10 x4	chl-carb-py carb-qtz-chl-py-cp x2 carb-py x2 carb(chl)-py x2 carb-qtz-py(cp) qtz-carb(chl) py ((cpl) x3 carb(chl)-py x2 chl-py x4	0 10 20 30 40 50 60 70 80 90	4.5	287	90	37	10798	.19	.006	.17 2690	12
UNIT (285-332) very similar to the above unit with no obvious contact between the units - this unit however, is more uniform in texture and comp.	60 Mod-Str.	300	20 5+45+30 5x2 15x2 10 45 15	1/3 1/8-1/10x3 1/8 1/8 x2 1/10 1/10 1/2	qtz-chl-py carb-chl-py x3 carb-chl-py x2 qtz-chl-carb-py x2 qtz-chl-py qtz-chl-py qtz-py	0 10 20 30 40 50 60 70 80 90	3.5	297	90	37	10799	.19	.006		.10
and grades in many places to a medium grain dioritic-appearing rx. - a typical rx type of this unit is fine grn (1/20-1/10"), contains ~ 40% chl 35% plag and ~ 20%	60 WM	310	60+30 30 5 45+5 60 20	1/10 x2 1/3 1/10 1/10 x2 1/10 1/8	chl-py x2 qtz-carb-py-cp chl-ep-py chl-ep-py x2 chl-py qtz-chl-py	0 10 20 30 40 50 60 70 80 90	3.0	307	95	30	10800	.10	.004		.08
epidote as stringers + clots - some qtz (10%?) can be seen with magnif. ∴ this unit is interpret. To be a metamorphosed sequence of flows + volcanoclastic sedts. of	ND	320	5 60 x3 45 45 90 5 20+5	1/10 1/10 x3 1/8 1/8 1/10 1/10 1/2+1/4	qtz-chl-py chl-ep-py x3 qtz-carb-py chl-py carb-ep-py chl-ep-py chl-carb-py (cp) x2	0 10 20 30 40 50 60 70 80 90	3.5	315	98	47	10801	.23	.010		.08
chiefly andesitic comp.	ND	330	5+30 15 15 35x3 10x2 15 5	1/10x2 1/4 1/2 1/10x3 1/3+1/4 1/4 1/3	chl-ep-py x2 qtz-carb-py chl-carb-py chl-carb-py x3 qtz-mag-(cp) + qtz-chl-py carb-py chl-carb-py	0 10 20 30 40 50 60 70 80 90	4.0	325	95	27	10802	.11	.012		.06
	ND	340	20x2 40x3 20+35 5 60+4 40+5 5+40+35 40	1/3x2 1/10x3 1/4+1/10 1/3 1/10x4 1/8x5 1/10x3 1"	chl-carb-py (cp) x2 chl-ep-py x3 chl-py (cp) x2 chl-carb-py chl-ep-py x4 qtz-chl-py x3 chl-py x3 qtz-py (cp) ((Mo))	0 10 20 30 40 50 60 70 80 90	3.5	333 337	90 98	37	10803	.14	.008	.17 2695	.08

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-22
SHEET No. 6 of 8

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
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 %	R Q D	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
						90+60	1" + 1/2	qtz-cp + qtz-carb-py											
						45	1/2"	chl-py											
						90	10"	qtz-carb											
						0		carb-cp											
						15	1"	carb-cp											
						45	1"	qtz-py-cp (Hb)											
						40	1/4	chl-carb-py (cp)											
	ND					35×2	1/8	chl-carb-py (cp)×2		3.5			98						
						15+2	1/8×2	qtz-chl-py (cp)×2				345		33	10804	.34	.008		.16
						45	1/4+1	qtz-chl-py (cp)											
				350		10×2	2"	qtz-chl-py (cp)											
						33+45+50	1/8×2+1/3	carb-py (cp)×2					95						
352						50×2	1/8×2	chl-py×3											
						60	12"	carb-chl-py (cp)×2											
	FP-CHL BRECCIA					60×3	1/10×3	carb-chl-py (cp) zone				355							
	AND DARK GREEN	ND				70×2	1/10×2	chl-carb-py (cp)×3		3.0			90	23	10805	.19	.006		.14
	META ANDESITE					45+40	1/10+1/8	chl-carb-py×2				359							
				360															
	Similar to the breccia of 61'-125' and the dk green andesite of 125-170'. Contacts are gradational. (352-375')	60-70 Mod				45+5×2	1/8×3	chl-py (cp)×3											
						60+45	1/10×2	chl-py (cp)×2											
						50	1/8	carb-cp					98						
						70×3	1/10×3	carb-chl-py-cp×3											
						50×2	1/2+1/4	chl-carb-py-cp×2		3.0									
						70	1/4	carb-py (cp)				367		23	10806	.26	.010		.25
						45	10"	carb-qtz-py (cp) zone											
						60×3	1/10×3	chl-carb-py (cp)×3											
				370		50×2	1/4×2	chl-carb-cp×2											
						25	1/8	chl-qtz-carb-cp											
						45	1/10	chl-cp	chl-rich zone				95						
375		60				45	1/10	chl-py (cp)											
	FINE TO MED. GRN	Mod				60	1/8	qtz-chl-cp		1.5		375		20	10807	.42	.012	.28	.40
	QUARTZ DIORITE					70×4	1/10-1/10×4	chl-carb-py-cp×4										2600	
						55	1/4	chl-carb-cp											
						60	1/2	chl-cp											
				380		5	2"	mag (carb)-cp											
	this rx. is sheared and alt'd, making it's identification diff. - The rel. unalt'd rx appears to be a diorite or quartz diorite - ie grn size 1/20-1/10"	60 str				60	12"	chl-carb-py (cp) zone											
						65	3/4	carb-chl-py (cp)											
						60	2"	chl-(carb) py (cp) zone											
						60	2'	chl-carb-py-cp zone											
							5'			2.0	carb weathers to a fair brown color.	385		53	10808	.33	.054		.25
						60		qtz-chl-carb (py)((cp)) zone					95						
				390															
	~ 20 o/o qtz ~ 20-30 o/o chl ~ 50 o/o saus plag ∴ this may not be Mine Phase. (375-504')	55-60 str				55-60		qtz-ser-chl-carb (py)((cp)) zone (py-cp occur as fine dissem.'s along foln planes)		3.0		395		70	10809	.23	.016		.18
				400															

GRID

GIBRALTAR MINES LTD.

HOLE No. 86-22
SHEET No. 7 of 8

Footage	∠ to Core Foliation	Veins ∠ to Core Axis	Width of Vein	Mineralization	Estimated % Pyrite	Remarks	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
410	60-70 Str	60-70 35	9' 1"	qtz-chl-carb-(py)(cp) zone qtz-ser-chl-py(cp)((Mo))	1.5		405	90	47	10810	.40	.010		.25
420	60 Mod	50+35+45 60 60x5 50 35-60 35 x 4 40+45 60 x2+5 60x2	1/4 + 1/10 + 1/2 1" hle-1/20x5 2" 3' 1/10 x4 1/8x2 1/10x2 + 1/8 1/10x2	chl-cp-py + qtz-ser-py-cp x2 chl-carb-py-cp chl-cp x5 chl-carb-cp ? vuggy core with lamina and clots of chl-cp, qtz-carb-cp chl-carb-cp-py x 4 chl-ep-py x2 ep-chl-cp x2 + qtz-cp ep-chl-py-cp x 2	1.5	dk vuggy core with dissem. cp.	415	85 90	40	10811	.48	.010		.35
430	45-60 Mod	40+5 70 30+35 40+50 20x2 40 60 45x2 30 ?	1/10 x2 1/10 1/10x2 1/2 x 1/4 1/3x2 1/8 1/10 1/8x2 1/8 2"	chl-cp x2 chl-ep-cp chl-carb-cp x2 qtz-ser-py + qtz-chl-py qtz-mag x2 qtz-chl-mag-cp chl cp qtz-chl-cp x2 chl-cp chl-cp	1.0		422 427	90	13	10812	.34	.012	.37 2555	.25
440	45-55 Mod	50 40x2 60 40 45 55	2" 1/10 x2 8" 1/8 8" 2 1/2'	qtz-chl-mag-cp chl-cp x2 chl-carb (py)(cp) chl-carb-py-cp ep-chl-py zone (qtz)chl-carb-py zone	3.0		433 437	95 90	20	10813	.21	.018		.15
450	60 Mod	55 ? 60 90+5+60 30x2 40 40x2 90	2' 12" 6" 1/4 x3 1/10 x2 2" 1/10 x2 1"	chl-carb-py zone ser-carb-py zone chl-carb-py zone qtz x3 chl-py(cp) x2 qtz-py chl-py(cp)x2 qtz	2.5		445	95	30	10814	.14	.006		.14
460	50 str	60x2+30 50 50 60x2	1/4 x3 5' 1/10 1/10 x2	qtz-carb x3 qtz-carb-chl-py ((cp)) zone chl-carb-cp } vuggy core chl-carb-cp x2 } vuggy core	2.0		455 457	95 95	17	10815	.17	.004		.15

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-22
SHEET No. 8 of 8

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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 %	R Q D	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
	60 Mod		470		45+60 90+60+x 90+45+60	½ 1/10 1/8 x3 1/10 x3 ¼ ½ x2	qtz (cp) qtz-chl-cp x2 qtz-chl-carb (cp) x3 chl-py qtz-mag (cp) chl-carb-py x2	broken vuggy core + dissem cp	1.0		465	90 90	10	10816	.33	.014	.23 2510	.20
	60 Mod		480		45+10 10 20+45 x2 20 60 70 45 50 70 60	½+¼ ⅛ 2"+½ x2 1' ½ 1½ 1' 1' ¼ 1'	qtz-mag-cp qtz-chl-carb-py-cp qtz-mag-cp x3 qtz-mag-cp qtz-chl-mag (cp) chl-carb (cp) qtz-mag qtz-(cp) qtz-carb-chl-(cp) qtz (cp)	dk core + dissem cp	0.5		472 477	95	10	10817	.42	.018		.25
	60-70 str		490	60-70	70	¼	qtz-mag-cp		2.0		487	90	23	10818	.32	.010		.20
	60-70 str.		500	60-70		9'	qtz-carb-chl-ser-(py)(cp) zone		1.0	Cp, py & mag are in small concordant veins and dissem. along foln planes - carb. is pale brown weathering	496	85	50	10819	.33	.010		.18
E.O.H 504'	70 str			70		4'	Chl-carb (mag)(cp) zone		< 0.5	also a few specks of bo	504	98		10820	.22	.010	.33	25
B.O.B.																		
																	2965	

GRID______

GIBRALTAR MINES LTD.

HOLE No. 86-23
SHEET No. 1 of 8

LOCATION: SAWMILL ZONE
DATE COLLARED: 18 Aug - 86
DATE COMPLETED: 18 - Aug - 86
BEARING: –
LENGTH: 506'
DIP: -90°
LATITUDE: ~ 33,487.00 N
DEPARTURE: ~ 47,812.00 E
ELEVATION: ~ 2,898.00
CORE SIZE: N.Q.W.
SCALE OF LOG: 1" = 10'
REMARKS: *this hole intersects the West Boundary Fault.
LOGGED BY: G.D.B
DATE: Oct. 30, 1986

BOTTOM DEPTHS: LEACH CAP –; LIM. ZONE –; SUPERGENE –

ROCK TYPES & ALTERATION	∠ to Core Foliation	Graphic Log Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	Estimated % Pyrite	Remarks	Footage Blocks	Estimated Core Recovery %	RQD	Sample Number	% Cu	% Mo		Estimated Grade
Casing To 85' DARK GREEN META ANDESITE (90'-112')	?	90		5	gg-bx	<0.5	no limonite zone	85 87 90	90 70		96001				.05
- dense dk green andesite grading to a ep-chl-bx due to an increase of ep clots and stringers - med. grn diorite occurs between 97-101	?	100	5 30 5	¼ 7" 2"	qtz qtz qtz-chl (vug)	<0.5		97	90 60	10	96001	.01 <.01x	.001		.05
-	?	110	60 60 70	¼ ⅛ 1½	carb-py carb-py carb-py	2.0		102 110	85	7	96002	.05 <.01x	.001		.08
MAJOR FAULT ZONE (112'-167') - consists mainly	?	120	45	2' 8'	chl-ep-carb-py-(cp) zone (scarn?) (gg)-bx - lost core	5.0		120	45	3	96003	.28 <.01x	<.001	.11 2780	.25
of broken gougey rx. with only minor gg. zones - much of the broken rx is well mineralized with py.	?	130		10	bx (gg) ~ 4½' core lost.	3.0		123 127	40 40 50	0	96004	.04 <.01x	.001		.10

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 86-23
SHEET No. 2 of 8

ROCK TYPES & ALTERATION	∠ to Core Foliation	Graphic Log Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	Estimated % Pyrite	Remarks	Footage Blocks	Estimated Core Recovery %	RQD	Sample Number	% Cu	% Mo		Estimated Grade
main dislocation prob occurs @ ~163-167' as here the frag's change from meta-andesite to gypsum-bearing quartz	?	140	?	10'	broken gg'y rx	3.0		131 / 135 / 138	60 / 20	0	96005	.02	<.001		.08?
diorite. This is also a zone of greatest gouge development.	?	150		10'	gg-bx ~ 7' core lost	6.0		147 / 149	25 / 40	0	96006	.16	<.001		.12?
	?	160		10'	(gg)-bx ~ 6' core lost	5.0		151 / 153 / 155 / 157	0 / 50 / 25 / 50 / 30	0	96007	.12	<.001		.08?
FINE GRN.	?	170	80x2 / 50	7' / 1/8x2 / 1/4	gg-(bx) / qtz-py-cp x2 / gyp	3.0?		161 / 165 / 167 / 169	70 / 20 / 90	0	96008	.17	.006	.09 / 2735	?
QUARTZ DIORITE a soft fine grn (≥1/40") qtz-diorite cut by numerous gyp and qtz veins - appears sheared and arg'l alt'n due prob.	70 wk	180	60 / 20 / 70 / 20 / 60 / 70 / 60 / 70	1/10 / 1/4 / 1/4 / 1/4 / 1/4 / 1/8 / 1/10 / 1/4	gyp / gyp / qtz-py / gyp / qtz / qtz / py-cp / qtz	0.5		177	90	17	96009	.21	.008		.10
to the fault. ~25% qtz ~50% saus plag ~15-20% chl [illegible] (167-201)		190	50 / 70 / 60x2 / 70 / 80 / 90	1/10 / 1/8 / 2" / 1/4 / 1/4 / 1/2	qtz-carb-cp / gyp / qtz-chl x2 / gyp / gyp / qtz	<0.5		187	90	20	96010	.12	.005		.08

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 96-23
SHEET No. 3 of 8

BOTTOM DEPTHS: LEACH CAP | LIM. ZONE | SUPERGENE | REMARKS

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 Discrs.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	50 WK		200		40 45 45 40 50+60	1/8 1/4 1/8 1/10 1/8±2	qtz qtz-chl-py gyp qtz-chl-py qtz±z		0.5		197	90	17	96011	.15	.004		.05
201												80						
MAJOR FAULT ZONE ? (201'-241') - This could be a series of small faults but there is a rock change across it. - no strong gg. zones - mainly broken gouge rock, and lost core - main gg zone occurs @ 235-241'	?		210			10'	(gg) bx		2.0?		201	55	0	96012	.17	.007	.18 ≥690	?
											206							
											208	50						
											210	65						
	?		220			10'	(gg) bx		?		212	75	3	96013	.09	.006		?
											216	45						
											218	60						
	60?		230			10	(gg)-bx		3.0?		222	70	0	96014	.11	.009		?
											227	85						
	?		240			11'	gg-bx		?		232	55	0	96015	.10	.006		?
											239	50						
241											241	60						
LEUCOCRATIC ZONE (241-258') Pale grey spar phenos up to ¼" dia (anhedral) and occasional qtz eyes	ND		250		35 20 20	1/10 1" 1/20	qtz-Mo-(cp) qtz qtz-cp-Mo		<0.5		247	90 95	7	96016	.16	.020		.10

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 86-23
SHEET No. 4 of 8

ROCK TYPES & ALTERATION	∠ to Core Foliation	Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization		Estimated % Pyrite	Remarks	Footage Blocks	Estimated Core Recovery %	RQD	Sample Number	% Cu	% Mo		Estimated Grade
up to ¼" dia in a darker grey seriate quartzo-feldspathic matrix - also ~5 o/o chl. as scattered, ragged tiny (<1/20") grn.s FAULT ZONE	ND	260	30+20 35	hle x2 ¼	Mo-cp x2 qtz		<0.5		252 260	85	0	96017	.18	.012	.12 ≥645	08
(258'-265') 265 MED. GRN QUARTZ DIORITE (265'-370')	ND	270	? 45x3+60x2 40x2 45x2 45 70	7' ⅛x5 ¼x2 ⅛x2 1/20	(gg)-bx. qtz x5 qtz x2 qtz x2 qtz-cp-Mo gyp-hem		<0.5		262 265	40 60 95	13	96018	.20	.010		.10
this rx. is likely Mine Phase - it was not encountered above - - grn size ~ 1/10" or larger - 20 o/o chl - 50 o/o plag. - grey or	45 str.	280	45+30x2+60+40 60+40 70x4 60-70x5 50x2+60x2 35 45x5 45	⅓-⅛x6 ¼+1/10 1/10x4 ⅛-1/10x5 ⅛x2+1/10x2 ⅛ ⅛-1/10x5 4'	qtz x6 gyp x2 qtz x4 qtz x5 qtz x4 gyp qtz x5 qtz-carb-chl-gyp	cp(bo) occurs along chl-qtz hle shears as tiny blebs	<0.5		275	95	43	96019	.13	.006		.14
only weakly saus. - 20-25 o/o qtz - 5 o/o ep. ∴ this core is soft and has an earthy odour when wet - argillic alt'n? - it is also dark (weak sau.) and sl. vuggy	40 str.	290	40 3+30 50x3 40+55x2 40-60x10 45+60x4 70x2 5+45+60+45 30x4 60-70x4 80x5	⅛ 1/10x2 ⅓x3 ¼x3 ⅛-1/10x10 2"+⅛x2 1/10x2 1"+⅛x2+¼ ¼+⅛x3 1/10x4 ¼x5	qtz-chl-carb-cp (Mo) gyp x2 qtz x3 qtz x3 qtz x10 qtz x3 gyp x2 qtz-cp x4 qtz-cp x3 gyp qtz x5	cp(bo) as above.	<0.5	this is a qtz-gyp zone with qtz stockworks - only a small portion of the qtz veining is shown - qtz may form 60 o/o of the core.	285	95	33	96020	.40	.016		.35
	40 Mod. Str.	300	60+45x3 60x3 45x4 40+60+45+50 35 40+35x2 50-60x4 35 30+15 50 40	⅛-1/10x4 1/10x3 ¼x2 ⅓-1/10x2 ¼ ¼-⅓x3 1/10x4 ⅛ ¼x2 3/4 ¼	qtz x4 gyp x3 qtz x4 gyp x4 qtz-cp qtz x3 gyp x4 qtz-cp qtz-cp(Mo) x2 qtz-chl-gyp-carb-cp (Mo) qtz-carb-cp (Mag)	cp(bo) as above	<0.5		295	98	33	96021	.31	.087	.25 2600	.25
	40 wk	310	30x2 30x4+45x2 60x2 30x2 30+50x4+50x2 40 20 60-70x4	1/10x2 ⅓-⅛x6 ⅛-¼ ¼x2 ⅛x7 6" ¼ ⅓-¼x4	qtz-chl-cp x2 qtz x6 qtz x2 qtz-chl-carb-cp qtz x7 gyp-chl-gg-bx chl-gyp qtz x1		<0.5		306	95	30	96022	.25	.012		.12

BOTTOM DEPTHS: LEACH CAP, LIM. ZONE, SUPERGENE

FRACTURE ANGLE TO CORE AXIS - FREQUENCY - (0–90 scale, blank)

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-23
SHEET No. 5 of 8

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Discr.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	40 WK		320		60×3 50 + 60 60-70 × 10 45 30 45-70 × 12 45×3 30+40×4 35+20 30 80+60	1/4 ×3 1/8 + 1/10 1/8×10 1/10 1/16 1/4-1/10×12 1/4-1/10×3 1/10×4 1/4 + 1/4 1/2 1/8×2	qtz×2 qtz-chl-cp-mag ×2 qtz×10 qtz-chl-cp qtz-mag qtz×12 qyp×2 qyp-hem×4 qtz-chl-cp×2 qtz(cp) qyp×2	0 10 20 30 40 50 60 70 80 90	<0.5	316	95	27	96023	.20	.019		.14
	ND		330		45 30 10 + 40-60×3 45 45+30+35 50×2 45+60 5 45+50 20	1" 1/10 1/8 + 1/10×3 8" 1/8×2 1/10×2 1/2 + 1/4 1/4 1/10×2 1/2	leucocratic zone * qtz-chl-cp qtz-chl + qtz×2 leucocratic zone qtz×2 qyp×2 qtz-mag-cp ×2 qtz-chl-cpx qyp×2 qtz-(cp)	0 10 20 30 40 50 60 70 80 90	<0.5	327	90	37	96024	.12	.009		.15
	ND		340		85+50 50-60×3 35+30 35+40×3 30 60+30+45 70 5 45×4 20×3	1/4×2 1/4-1/3×3 1/4×2 1/4+1/8×3 1/8 1/8+1/4+1/10 1/8×2 1/4 1/3-1/8×4 1/3+1/4×3	qyp-hem×2 qtz×3 qtz-mag×2 qtz-cp + qtz-mag×3 qtz-chl-cp qtz×3 qyp×2 qtz-chl-cp(slla) qtz×4 qtz-chl-cp×3	0 10 20 30 40 50 60 70 80 90	<0.5	337	98	43	96025	.21	.012		.18
	ND		350		40×2 20 50-60×5 30 5 25-30×6 10 30×2	1/10+1/8 1/3 1/3-1/4×5 1/8 1/8 1/4-1/8×6 1/3 1/8×2	qtz-chl-cp×2 qtz-chl-cp qtz×5 qtz-mag qtz-mag-cp qtz×6 qtz-mag qyp×2	0 10 20 30 40 50 60 70 80 90	<0.5	347	95	30	96026	.25	.004	.20 .2555	.14
	ND		360		45-65×12 30 40×2 30×2 45-50×3 40+45 40×2 25-30 45-60×4 + 70×2 20	1/4 - 1/8×12 1/2 1/10×2 1/4×2 1/4-1/8×3 1/4 - 1/8 1/8×2 1/4-1/8 1/3-1/8×6 1/2	qtz×12 qtz-chl-mag-cp qyp×2 qtz-chl-cp×2 qtz×5 qtz-chl-cp + qtz-mag(cp) qyp×2 qtz-chl-cp×2 qtz-chl-cp(bo) qyp×2	0 10 20 30 40 50 60 70 80 90	<0.5	357	98	50	96027	.13	.010		.16
	30 WK. STR.		370		35×43 40 30×2 15 60×2 60×4 60×3+40 60-70×4 60 14"	1/3×2 1/2 1/3+1/4×2 1/2 1/10×2 1/8×4 1/4-1/10×4 1/10-1/8×4 14"	qtz×2 qtz-chl-cp(bo) qtz×2 qtz-chl-mag-cp qyp×2 qtz×4 qtz×4 qtz×4 qtz-ser-carb-chl zone	0 10 20 30 40 50 60 70 80 90	<0.5	367	95	50	96028	.18	.008		.12

* same as 241'-258'

qtz-gyp zone
Similar to page 3 but core is sl. harder - no argillic odour - and sulf. is greater but the core is still dark
- gyp. is sl. less abundant
- qtz. is still in stkwork form
- cp(bo) occurs in small veinr & inles throughout
The core carries in effect a disseminated background

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 86-23

ROCK TYPES & ALTERATION	∠ to Core Foliation	Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	Estimated % Pyrite	Bottom Depths (Leach Cap / Lim. Zone / Supergene) – Remarks	Footage Blocks	Estimated Core Recovery %	RQD	Sample Number	% Cu	% Mo		Estimated Grade
QUARTZ PORPHYRY (370'-405') 30% angular qtz. phenos 1/10-1/8" dia in a pale grey to pale greenish aphanitic to seriate	ND	380	20 20 ? 40	1" hle 3' 1/10	qtz((cp)) cp qg-bx qtz(Mo)	<0.5		377	90 90	23	96029	.14	.008		.08
qtz-feldspar matrix. - typical Q.P. for this area - upper contact is finer grn with some spar pheno's suggesting some contact chilling - lower contact may be faulted	NO	390	90 70 45 5 80 80	1" 1/10 1/2 1/8 1" 2'	qtz qtz-cp qtz-cp(Mo qtz-Mo qtz-Xls qtz-ser-carb (Mo)((cp)) zone	<0.5		381 387	98	50	96030	.13	.008	.16 2510	.10
	85 Str	400	85	10'	qtz-carb-ser-(cp)(mag?)*	<0.5	* fine grn bluish grey mineral - either mag. or Mo causing a bluish coloration to qtz + ser.	397	98	47	96031	.15	.010		.14
poss. fault contact. MINE PHASE QUARTZ DIORITE (405'-431)	80-85 str.	410	85 90x2 90 80	2½' 2½' ¼ x 2 16" ¼	qtz-carb-ser-(cp)(mag.)* gg-bx qtz + gyp qtz-chl-carb-cp qtz-chl-cp	<0.5		405	95	10	96032	.38	.018		.20
Same as 265'-370'	80 Mod	420	80x2 70+60 30 40 45 50 70 40	½+⅓ 1/8x2 1' 12" ½ 1/8 ½ 1/8 ½	qtz-chl-cpx2 gypx2 qtz gg-bx qtz-carb gyp qtz-chl-cp (bo) qtz-chl-cp gyp fine cp + bo dissem along chloritic str[illegible] qtz-chl veinlets	<0.5		415		20	96033	.22	.008		.22
	80 wk	430	40+70+90x2 80 90+70 90 70-80x5 25+5 25+60x2+70 35-55x6	1/8-1/10x4 ¼ 1/8x2 2" 1/10-1/8x5 ¼+½ 1/10-1/8x4 1/8x6	gypx4 qtz-cp(Mo) qtz-chl-cpx3 qtz-chl-carb (cp) gypx5 qtz-chl-cp + qtz gyp-hemx4 qtzx6 - strong gyp veining - qtz stwk not as strong as above	<0.5		426	95	53	96034	.26	.020		.30

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 86-23
SHEET No. 7 of 8

ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation Alteration Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	Estimated % Pyrite	Bottom Depths (Leach Cap / Lim. Zone / Supergene) Remarks	Footage Blocks	Estimated Core Recovery %	RQD	Sample Number	% Cu	% Mo		Estimated Grade
QUARTZ-FELDSPAR PORPHYRY (431- 451) 30o/o pale grey spar pheno's 1/8"-1/4" dia, anhedral and 20o/o grey angular qtz pheno's 1/10-1/8" dia in a pale green seriate matrix. Upper contact @ ~30° and sharp but not chilled.	ND	440	5+40+50 40 45-70×5 40 20 5+60	1"+1/2×2 2" 1/10×5 1/2 1/4 1/2+1/3	qtz×3 wall rx-cp gyp×5 qtz-cp qtz-cp qtz-(cp)×2	<0.5		436	98	50	96035	.28	.014	.26 2465	.25
	ND?	450	30×2 80 20 20×2 40 15 60 30	1/10×2 1½ 1¼ 1/20×2 1/2 1/10 1/3 1/4	qtz-py×2 qtz qtz-chl-cp chl-cp×2 qtz-cp qtz-chl-cp chl (cp) qtz-cp	<0.5		446	95	53	96036	.36	.018		.30
451 MINE PHASE (451'- 506') same as 265'-370'	45 Mod	460	50 45×2 45 15 45×2 45-55×6 5+60×2 50	1/3 1/4×2 1/2 1/2 1/10×2 1/10×6 1/4+1/20×2 1/8	qtz qtz-chl-cp×2 qtz-cp qtz-cp gyp-hem×2 gyp×6 qtz×3 qtz-chl-cp	<0.5		456	98	47	96037	.26	.008		.22
	50-60 Mod	470	45 45 40? 45 70+90 30+35 20	1/10 1" 30" 3" 1/4 1/20×2 1/4×2 1/2	qtz-chl-cp qtz-cp gg-bx qtz-carb-cp chl-py gyp-hem×2 qtz-chl-cp×2 qtz-chl-cp fine dissem cp. along chloritic fdn planes	<0.5		466	95	40	96038	.76	.020		.25
small strong fault	60 Str	480	? 60×3 70×3 45 60×4	7' 1/8-1/10×3 1/10×3 1/8 1/4-1/10×4	gg-Cb. gyp×3 qtz(chl)-cp×3 qtz-Mo qtz-chl-carb-cp×4	<0.5		476	90	37	96039	.23	.056	.38 2420	.18
	65 Str.	490	65	11'	qtz-chl-carb(gyp)(cp)(py)	0.5		486	95	50	96040	.40	.050		.30

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-23
SHEET No. 8 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 %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	60 ST	500	70 x2 80 70 65 65 x2 45 45 65 x3	1/8 x2 1/10 1/10 1" 1/10 x2 1/10 1" 1/8 x3	gyp x2 qfp-chl-cp qfp-chl-cp qfp-chl-gyp-cp qfp-chl-cp x2 qfp-chl-cp qfp-cp gyp x3 } fine cp(py) disseminated along chlorite foliation planes	0 10 20 30 40 50 60 70 80 90	0.5		496	98	77	96041	.166	.020		.40
EOH 506'			60 x2 80 - 80 50 60 x2 60 x2 50 x2	1/8 1/4 x2 1/10 1/8 x2 1/10 - 1/4 1/10 x2	gyp qfp qfp-chl-cp qfp-chl-cp x2 gyp x2 qfp-chl-cp x2 } fine cp(py) disseminated along chlorite foliation planes	0 10 20 30 40 50 60 70 80 90	0.5		506	95		96042	.31	.012	.46	.30
B.D.B.						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										

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GIBRALTAR MINES LTD.

HOLE No. 86-24
SHEET No. 1 of 9

LOCATION	SAWMILL ZONE	BEARING	–	LATITUDE	~33,921.00 N	CORE SIZE	N.Q.W.
DATE COLLARED	19-Aug-86	LENGTH	597'	DEPARTURE	~48,249.00 E	SCALE OF LOG	1" = 10'
DATE COMPLETED	20-Aug-86	DIP	-90°	ELEVATION	~2962.00	REMARKS	
LOGGED BY	G.D.B.	DATE	August 20, 1986				

BOTTOM DEPTHS: LEACH CAP – ; LIM. ZONE 102' ; SUPERGENE 112'

ROCK TYPES & ALTERATION	∠ to Core Foliation	Graphic Log Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	Fracture Angle to Core Axis – Frequency –	Estimated % Pyrite	Remarks	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
Casing To 80'		80							80							
MEDIUM GRN QUARTZ DIORITE ~35% dk green chl 25% qtz ~35-40% med. grey	60 Str	90			broken rusty core minor mal. and py.		<.5		87	85 90	13	11177	.14	.002	.14 2973?	.10
plag. - rx is strongly sheared with original tex. largely indistinct - grn size 1/20-1/10" - contains dissem	35 str	100	40+30+25 40×2 30×5 ±4?	1/10×3 1/10×2 1/10×3	qtz-chl-py-lim qtz-chl-py-lim mal-lim-cuprite [illegible]		1.0		91 99	85	13	11178	.31	.006		15 .02?
py along foln planes only the larger veins and smears are noted in log. - the py often contains [illegible] chalcopyrite? [illegible]	35 Str.	110	5 20-30×10 15 20×2 50+5	1/10 1/20-1/10×10 1/4 1/20×2 1/2?-1/4	lim-ser? chl-py×10 qtz-chl-py (cc) [illegible] chl-py×2		2.0		103 105	98 98 90	20	11179	.32	.012		.12
	45 Str	120	35 30 20 20 5?	1/8 1/4 1/5 1/10 1"	qtz-chl-py (cc) qtz-chl-py (cp) qtz (cp) qtz-chl-py qtz-py		3.5		111 117 119	80 93	33	11180	.14	.014		.10

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-24
SHEET No. 2 of 3

BOTTOM DEPTHS: LEACH CAP | LIM. ZONE | SUPERGENE

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	REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	35 str.		130		25 30 30 25×3 45	1/4 3" 1/16 1/8 to 3 1/2	qt3 (chl) - py ((cp)) qq qt3 - chl - py qt3 - chl - py ×2 qt3 - (cp)(py) ((mo))	0 10 20 30 40 50 60 70 80 90	3.0		122 127 130	80 95 98	33	11181	19	010		.12
	35 str		140		25 60	12" 3'	qt3 - carb - ser - py qq zone of broken and lost core	0 10 20 30 40 50 60 70 80 90	3.0		132 136 140	30 10	0	11182	.13	.009	.23 2825	.10
Fault Zone 146 - 151	20-30 str.		150		30 40 50 60 60 ?	6' 12" 1/4 1" 1/4 2½'	banded chl - carb - qt3 - py (cp) zone qt3 - carb - chl. zone carb - py ((cp)) qt3 - carb - chl - py qt3 - carb - py fault gg	0 10 20 30 40 50 60 70 80 90	3.5		146 148 151	85 98 98	7	11183	.13	.007		.10
total zone of broken rx and gougy shears extends from 141' to 158'	35 str.		160		50 15 15 60 35	1/8 1/4 3' 1/8 1/2 1/8 to 2	qt3 - ((cp)) qt3 - chl - py ((cp)) qq + bx qt3 - py qt3 - carb - py qt3 - chl - carb - py ((cp))	0 10 20 30 40 50 60 70 80 90	4.0		156 160	90 98	17	11184	.08	.009		.10
	30 str		170		30 30 60 15 ? 30	1/10 1" 2" 1/10 2' 1/2"	qt3 - chl - py qt3 - carb - py (cp) - a discordant vein qt3 - carb qt3 - carb - py @ pp dyke with disem py. qt3 - carb - py	0 10 20 30 40 50 60 70 80 90	4.0		165 168 170	80 80 75	10	11185	.04	.005		.14
	40 str		180		5 + 65 75 × 2 5 15 5 40	1/16 + 1/10 1" - 2 1 1/4 2" 2" 1/8	qt3 - chl - py ×2 qt3 - chl - carb ×2 qt3 ((cp)((mo)) qt3 - carb - py qt3 - py chl - carb - py	0 10 20 30 40 50 60 70 80 90	4.0		175 178	95 98	13	11186	.08	.007	.10 2780	.12

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 86-24
SHEET No. 3 of 3

ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation Alteration / Footage	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	Sample Number	% Cu	% Mo		Estimated Grade
	30 Str.	190	5 20 80 20 15 5 20×3 90	½ ⅕ 2" ¼×2 2½ 3" 1/10+1/8×2 ¼	qtz-carb-py (cp) qtz-chl-py qtz-chl-carb (vug) qtz-chl-py qtz-py qtz-carb-py qtz-chl-py×3 qtz	0 10 20 30 40 50 60 70 80 90	3.5		184 186 189	98 85 80	10	11187	06	008		.10
	30 Str.	200	90 5×2 5 5 4? 70 50 ?	2" ⅙+⅓ ¼ ½ ⅕ ½ 6" 30"	qtz (cp) qtz-carb-chl-py ×2 carb-py qtz-carb-py qtz qtz-chl-py qtz-carb (py) qs-bx	0 10 20 30 40 50 60 70 80 90	3.0		196 200	85 80	7	11188	08	007		.12
	60 Mod	210	70 60 80	6' 1" ½ 1"	broken core qtz qtz-chl-py qtz	0 10 20 30 40 50 60 70 80 90	2.0		205 210	60 85	0	96401	.11	.0006		.10
	80 Mod	220	45 5 50	¼ ¼ ¼ 5'	qtz-chl-py (cp) qtz-carb-chl-py chl-carb-py chl-carb-py ((cp))	0 10 20 30 40 50 60 70 80 90	2.5		215 219	80 95	0	96402	.11	.009		.12
Fairly weak metason effects ie [illegible] 200's qtz-carb-chl introductions - more [illegible] may be due to shearing rather than metasom [illegible]	30-80 Str.	230	30-80 45	3' [illegible]'	qtz-carb-chl-ser-py chl-carb-py zone	0 10 20 30 40 50 60 70 80 90	2.0		224	75 98	40	96403	.07	.006	.09 2735	.10
	45-80 Str.	240	45-50	10'	chl-carb-py zone	0 10 20 30 40 50 60 70 80 90	3.0		234	95	33	96404	.12	.008		.10

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-24
SHEET No. 4 of _____

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
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 Discrs.	Estimated Core Recovery %	R Q D	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
prob. an alt'd	35-45 Mod		250		35-45	10'	qtz-carb-ser(chl)-py zone		2.0		241	90	23	96405	.13	.006		.08
qtz-porp - gen composition is ~5 o/o chl. 10 o/o ser 10 o/o carb 50 o/o qtz 25 o/o plag.	45-60 Mod.		260		45-60	10'	qtz-carb-ser-py zone		1.5		247 254	95 95	50	96406	.12	.002		.08
a dk green fine gra	45-80 Mod		270		45-50	4'	qtz-carb-ser-py		1.5		264	90	50	96407	.04	.002	.10 2690	.06
zone - the dk color may be due to an incr. in chl. and a decr. in grn size due to shearing - that is, there is some metasom alt'n (chl+carb) but not as great as first appear. would suggest	70 Mod		280	50 15	60-80	6'	chl-carb-py zone		2.0		275 277	90	20	96408	.07	.002		.08
	70 Mod		290	5+15 70+60 45 5+70 80+45 80+45+60	⅓ 2"+½ 2"×2 4" ½×2 ⅛×2 1/16 ⅛×2		qtz-carb-py ×2 qtz ×2 qtz(chl)-carb-py qtz-carb-py ×2 qtz-chl-py ×2 qtz-chl-py ×2		3.5		287	90	53	96409	.07	.005		.08
	70 Mod		300	15 45×2 70 70	⅓ 1/16×2 ½ 4'		qtz-carb-py qtz-carb-py×2 qtz-chl-carb-py chl-carb-py zone		4.0		297	95	20	96410	.11	.006		.05

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-24
SHEET No. 5 of 9

BOTTOM DEPTHS: LEACH CAP | LIM. ZONE | SUPERGENE | REMARKS

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	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
BORDER PHASE DIORITE (300'-329') a dk green med grn (1/10-1/4" dia) rx ~40 o/o chl ~50 o/o saus plag.	70 Mod		310	45+20x2 40 15 20 20	1/10x3 1/2 1/3 1/2 1/3 1/2	qtz-chl-py x3 qtz-chl-py qtz-carb qtz-carb-py qtz-chl-carb-py qtz-carb-py	0-90	3.5		304 309	90 95	23	96411	.07	.009		.05
- sl. bx. tex. with clats of saus. plag. in chl. matrix	50-60 Mod		320	45 x2 45+50 60+70 5 60x5 40	2x+1/2 1/4+1/3 1/4+1/3 1/4 1/10x3 1/3	chl-carb-py x2 chl-carb-py x2 qtz-carb-chl-py qtz-carb-py (cp) qtz-chl-py x3 qtz-carb-py	0-90	3.0		317	95	8 27	96412	.09	.002	.08 2695	.08
Poss. fault contact 329'	60 Mod		330	25 30 ? 40 15?	12" 1/2 2' 10" 14"	qtz-chl-carb-py qtz-carb-py (cp) qq-bx. qtz-carb-chl-py zone qq	0-90	3.5		324	90 85	3 10	96413	.07	.004		.05
MED. GRN DIORITE (329-597) a med grn (1/20-1/10 dia) diorite which may grade to O.D. ~20-25 o/o bleached chl ~20 o/o interstitial qtz ~50 o/o saus. plag. - grn. size varies, part. between 329-370, and finer grn sizes are common - ie ≤ 1/20" ∴ this may be the typical rx underlying the north side of the ore zone.	50 Mod		340	40 25+60x3 45+60x10 45 45-60 x12 30 45-60x10 10+25 50-60x8 80 20	30" 1/2+1/10x3 1/4+1/20-1/10x10 3" 1/20-1/8x12 2 1/2 1/20-1/10x10 1/2x2 1/20x8 1" 0"	qtz-chl-(ser)-py qtz-chl-py x4 qtz-chl-py x11 qtz-chl-carb-py qtz-chl-py x12 qtz-chl-carb-py qtz-chl-py x10 qtz-carb-py x2 qtz-chl-py x8 qtz-carb-py (cp) qtz-carb-pl	0-90	7.0 4.0		325 340 347	95 80	67 60	96414 96415	.07 .08	.010 .014		.10 .10
			350	60 x 20 40+45 15+20+30 45x2	1/20-1/10 x20 1/10x2 1/20x2 + 1/4 1/10x2	qtz-chl-py x20 qtz-chl-py x2 qtz-carb-py x3 qtz-chl-py x2	0-90	4.0		353 360	95 90	47	96416	.11	.014	.08 2600	.08

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-24
SHEET No. 6 of 9

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
	60 Mod		370		60 x 10 25 + 20 x 3 45 50 + 5 40 + 5 35 x 2 30 15	1/20 x 10 1/4 + 1/10 x 3 1/8 1/8 1/4 x 2 1/10 1/3 1/4	qtz-chl-py x 10 qtz-chl-py x 4 qtz-chl-py-cp qtz-chl-py qtz-chl-py x 2 qtz-chl-py x 2 qtz-chl-carb-py qtz-chl-carb-py		4.0	367	80	43	96417	.11	.002		.08
	50- Wk-Mod		380		15 70 60-70 x 8 45 40-45 x 10 45 x 2 45 x 3 60	1/8 1/8 1/20 x 8 1/8 1/20-1/10 x 10 1/2 + 1/8 1/20 x 3 1/8	qtz-chl-py qtz-(Mo)((cp)) qtz-chl-py x 8 qtz-chl-py qtz-chl-py qtz-Mo (cp)-py x 2 qtz-chl-py (cp) x 2 qtz-chl-py		3.5	377	98		96418	.18	.010		.10
	45 WK		390		45 x 4 ? 40 x 4 ? 5+10 x 2 20	1/8 + 1/10 x 3 10" 1/20 x 4 6" 2" x 2 1 1/2	qtz-chl-py x 3 qtz qtz-chl-py x 4 qtz-py qtz-chl-carb-py (cp) x 2 qtz-carb-py		4.5	387	98		96419	.11	.002		.12
	45 WK		400		5+10 10 5 3 x 2 5 x 10 40 5	1/3 + 1" 14" 2" 1/2 + 1/4 1/10-1/20 x 10 6" 1/2	qtz-carb-py ((cp)) x 2 chl-carb-ser-py ((cp)) zone qtz-carb (chl)-py qtz-chl-carb-py qtz-chl-py x 10 carb (qtz) qtz-chl-carb-py (cp)		7.5	397	95		96420	.12	.002		.10
	ND		410		15 20 x 2 5 5 x 2 5	2" 1/8 + 1/10 1/3 1/4 + 1/8 1/10 + 1/20	qtz-chl-py qtz-chl-py x 2 qtz-chl-carb-py (cp) qtz-chl-py x 2 qtz-chl-py x 2		4.5	407	100	40	96421	.13	.002	.13 2555	.08
	ND		420		15 5 x 2 15 40 15 x 4	1/2 1/4 + 1/8 1/8 12" 1/10-1/4 x 4	qtz-chl-py qtz-chl-py x 2 qtz-chl-py qq-bx-hem qtz-carb-chl-py x 4		3.0	413	95 90	57	96422	.05	.002		.06

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-24
SHEET No. 7 of 9

BOTTOM DEPTHS: LEACH CAP | LIM. ZONE | SUPERGENE | REMARKS

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	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	ND		430		20 5 x 4 20+50	1/10 1/20-1/10 x 4 1/10 x 2 2'	qtz-chl-py hem-gg } broken zone qtz-carb-py (cpd) x 2 highly broken zone		2.5	423 425 429	90 90	13	96423	.03	<.002		.05
	70 str		440		70	10'	qtz-carb-(chl)-ser(py) zone (pale brown weathering carb)		2.0	435	50 80	27	96424	.07	.002		.06
	ND		450		60 50-40 x 4 20 70 70 5	4' 1" 1/20 x 4 1/4 1/2 2' 1/2	broken gg'v zone qtz-carb-py (cp) chl-py x 4 qtz-carb-chl-py qtz-carb-py dtz-ser-carb-zone qtz-carb zone of chl-carb-alt'n (dk zone)		1.5	441 447	60	17	96425	.06	.001	.06 2510	.08
	ND		460		35 +5+30+20+50 30+20 45 60+70 20+50	1/2 1/2-1/4 x 4 1/4 x 2 1" 1/32 1/4-1/3	qtz-carb-py qtz-carb x 4 qtz-carb-py (cp) x 2 qtz-carb-py (cp) qtz-tour. qtz-carb x 2		2.0	457	90	60	96426	.07	.003		.10
	5-70 str.		470		5-70	12'	qtz-carb-ser-py (cp) zone (first coarse cp)		4.0	467	100	53	96427	.12	.004		.18
Small fault	?		480			6'	gg-bx		1.5?	477	70	10	96428	.05	.001		.05?

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-24
SHEET No. 8 of 9

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Silicification	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	ND		490		45-40 x 5 20 15 5 1/2 1/2 4'	1/20 x 5 2' 2" 1/2 1/2 4'	qtz-chl-py x5 gg-bx qtz-carb-py qtz-carb py qtz-carb-py(cp) gg-bx-hem.	0 10 20 30 40 50 60 70 80 90	4.5	484 488	70 95	17	96429	.11	.004		.08
	ND		500		60 5 50 3'	1/2 1/3 1/10 3'	qtz qtz-carb-py carb-hem broken core	0 10 20 30 40 50 60 70 80 90	1.0	494 500	85 80	13	96430	.06	.001	.08 2465	.05
	ND		510		3' 20 15 30 25x3 ? 40-30x10 70x2	3' 2" 1/2 1/4 1/10x3 8" 1/20x10 1/8-1/10	broken core gg qtz-carb-py qtz-carb-py qtz-chl-py x3 qtz-chl-cp-carb qtz-chl-py(cp)x10 qtz-tour.	0 10 20 30 40 50 60 70 80 90	2.5	507	90 95	27	96431	.03	<.001		.08
	MI		520		5+20 3 3x2 20 60 40x2	1/4+1/2 1/10 1/10x2 1/3 2" 1/20x2	qtz-carb-chl-py x2 qtz-chl-py-cp qtz-chl-py x2 qtz-py qtz-py qtz-chl-py x2	0 10 20 30 40 50 60 70 80 90	3.5	513	95 98	37	96432	.05	<.001		.10
	40 Mod		540		45x3 55 40 x 20 45-70 x 5 15+20x2 60	1/8x3 2" 1/40-1/60 x 20 1/20-1/10 x 5 1/10x3 1/2	qtz-chl-py-carb x3 qtz (MoS) chl-py x 20 qtz-chl-py x5 qtz-chl-py x3 qtz-chl-carb-py	0 10 20 30 40 50 60 70 80 90	3.0	523 527	95	27	96433	.05	.001		.08
	50 Mod		540		70 30-60 x 5 60 50x2 50	1/4 1/20 x 5 1/10 1/4x2 2'	qtz qtz-chl-py x5 qtz-chl-py qtz-chl-carb-py x2 chl-carb-py(cp) zone	0 10 20 30 40 50 60 70 80 90	2.6	535.6	95 95	20	96434	.07	.001	.05 2426	.12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-24
SHEET No. 9 of 9

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	45 Mod				40-80	5'	chl-carb-ep-py((cp)) zone		2.0	541	95	43	96435	.07	.001		.12
			550		50 20×2	½ ⅛×2	qtz-carb-py qtz-chl-carb-py×2			547							
dk, vuggy chl-carb alt'd core	50 Mod				20 ? 15 5×2 5-80	3' 6" 12" ⅛×¼ 3'	chl-carb-(qtz)-(py)((cp))zone qq qtz-chl-carb-py qtz-chl-carb-py(cp) qtz-chl-ser-py zone		3.0	555	98	27	96436	.05	.002		.12
			560		60-70×5	¼×5	qtz-carb-py(cp)×5			565	98	53	96437	.05	<.001		.15
	50 Mod		570		70×3 20×50 ? 20	⅓×3 ⅛×2 12" 3"	qtz-carb-py(cp)×3 qtz-chl-py×2 qtz-chl-carb-py zone qtz-py(cp)		2.5	575	100	50	96438	.06	<.001		.05
	No		580		5 15×2	¼ ⅛×2	qtz-pied-py qtz-chl-py×2		1.5	586	95	33	96439	.04	.001	.06 .375	.08
	50 WK		590		60 25 40	⅛ ½ 14" ¼	qtz-chl-py qtz-py(cp) qq-bx qtz-chl-carb-py		1.0	594	95		96440	.03	<.001	.03	.05
EOH 597					50+40 30	⅛×2 6" 5'	qtz-chl-py×2 qq broken + lost core		1.0	597'	<10						

S.A.B.

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-25
SHEET No. 1 of 9

LOCATION SAWMILL
DATE COLLARED 21-Aug-86
DATE COMPLETED 21-Aug-86
BEARING —
LENGTH 507'
DIP -90°
LATITUDE ~34,223.00 N
DEPARTURE ~47,950.00 E
ELEVATION ~2,958.00'
CORE SIZE N.Q. Wireline
SCALE OF LOG 1"=10'
REMARKS this hole intersects vein's similar to that of 79-18
LOGGED BY G.D.B.
DATE Nov. 26 1986

BOTTOM DEPTHS
LEACH CAP 75'
LIM. ZONE 100'
SUPERGENE 110'

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	REMARKS	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
No Footage Marker - casing prob starts @ ~47' 47'																		
QUARTZ-CARB.	?		50'						0	- strong leaching to 75' but only weak limonite to 100' - cc zone is weak and confined to fractures	47?		50					.05
SERICITE-CHLORITE ZONE (47'-137') Typical alt'd shear zone - strongly sheared and in places folded and crenulated.	30-40 sl Cren		60'		30-45	28'	zone of strong leaching broken core and lost core plus minor gg zones. Heavy pervasive limonite staining, minor jasp. and no magnetite		0		57 / 60'	20? / 57%	0%	96451	.07	.006		.05
~20% brown weather. carb. as clots, veins and discontinuous laminae ~30% qtz as fine (⅛-¼") grns ~20% pale grey plag ~30% combined chl+	30-45 Str		70'		30-45				0		67	30%	0%	96452	.13	.011		.05
Ser. - the ratio of chl- to ser varies depending on original host rx - ie, dioritic and quartz-porp. tex. consists of cataclastic qtz-spar grns ⅛o-⅛" in a swirled matrix of chl-ser-carb.	45 Str		80'		40-45	5'	qtz-carb-ser-py		2.5		75 / 78	8% / 65%	10%	96453	.11	.009		.08

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-25
SHEET No. 2 of 9

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE

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	REMARKS	Footage Diesc.	Estimated Core Recovery %	R Q D	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
Py occurs throughout the zone mainly along fole planes associated with chl + ser. or with larger x-cutting qtz-carb. veins ("gash" veins?) Cp occurs in only minor amounts as tiny isolated grns or as micrascopic intergrowths with py.	5-40 str. folded + sl. cren		90		5-40	10'	qtz-carb-ser-(chl)-py ((cp))	0 10 20 30 40 50 60 70 80 90	4.0		82	65%						
											87	108%	58%	96454	.10	.002	.12	.10
	5-30 str. + folded		100		5-30	2½'	qtz-carb-ser (chl) -py	0 10 20 30 40 50 60 70 80 90	4.0		93	97%	90				2870	
					5-20	2'	gg-bx											
					5-15	4'	qtz-carb-ser-py-((cp))((cc))											
						1½'	gg-bx				100	84%	20%	96455	.07	.001		.12
	45-50 str.		110		45-50	10'	qtz-carb-ser-chl-py((cc))	0 10 20 30 40 50 60 70 80 90	4.5		105	76%	100					
											108	72%	10%	96456	.05	.003		.10
	5-30 str. folded		120		5-30	10'	qtz-carb-ser-py	0 10 20 30 40 50 60 70 80 90	3.5		114	37%	110					
											118	80%	35%	96457	.03	.004		.12
	5-50 str folded sl. cren		130		5-50	10'	qtz-carb-ser (chl.) -py((cp))	0 10 20 30 40 50 60 70 80 90	4.0		125	100%	120					
													73%	96458	.05	.003		.14
137	35 str		140		35	7'	qtz-carb-ser (chl) -py	0 10 20 30 40 50 60 70 80 90	3.0		135	94%	130				.05	
												95%	70%	96459	.09	.003	2825	.08
													190					

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-25
SHEET No. 3 of 9

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE

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	REMARKS	Footage Discon.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
FINE-MED. GRN. DIORITE (137'-296') this is not Border-Phase Diorite but rather fine typical	35 Mod		150		35±10 50±2 5±20 5-20 3	Y10×2 Y8+Y10 Y8×2 3' Y4	qt3-carb-py ×2 qt3-chl-py ×2 qt3-carb-py ×2 qt3-chl-ser-carb-py qt3-carb-ser-py		4.0		143 145	95%	82%	96460	.09	.003		.08
diorite to quartz diorite rx occurring along the north side of the Sawmill Zone ~25 % chl ~10-20% qt3 ~45 % % plag 10-20 % carb	30 Mod		160		25 5 5±3 20 20	Y10 3" Y2+2=1 12" 2'	qt3-chl-py qt3-ser-py qt3 qt3-ser-py qt3-ser-carb-py		4.0		155 168	98% 93%	35%	96461	.05	.005		.05
- this rx. appears to have a pervasive carb. alt'n which show up after the rx has been exposed for several weeks (brown weathering carb)	30 wk-Mod		170		30	2'	qt3-ser-py		2.5		162	90%	12%	96462	.03	.002		.05
						8'	highly broken core				169 176	25% 53%						
- the carb occurs in veinlets and as disseminations having a squarish euhedral outline - similiar alt'n was seen in hole 86-24 - some alt'n of plag is weak to absent.	45 Mod		180		35±3 10 45±6 35-60×5 60×2	Y10×3 Y8 Y20-Y10×6 Y20×5 Y3+Y4	qt3-chl-py×3 qt3-carb-py qt3-chl-py×6 qt3-chl-py×5 qt3-carb-py (cp) ×2		3.0		171 175 178	95% 60% 90%	23%	96463	.04	.002	.06 2780	.06
	45 Med-wk		190		35±5 5 30±35 15 15±3	Y20±5 1" Y3-Y10 Y3 Y3×3	qt3-chl-py (cp) ×5 qt3 qt3-carb-chl-py ×3 qt3-carb-chl-py qt3-carb-chl-py×3		3.0		183 185.6	90% 95%	52%	96464	.04	.002		.10
	40 wk-Mod		200		90 25±3 15±20 50+30+45 20	1" Y10×3 Y10×2 1"+Y4+Y4 2'	qt3-py qt3-carb-py×3 qt3-chl-py ×2 qt3-carb×2 qt3-ser-carb-py zone		2.5		195.6 197	82% 160% 96%	50%	96465	.04	.002		.08

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-25
SHEET No. 4 of 9

BOTTOM DEPTHS: LEACH CAP | LIM. ZONE | SUPERGENE | REMARKS

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	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	35 Mod	210	15 35 40.	12° 8' ⅓	qtz-chl-carb-py (cp) qtz-carb(ser)-py zone qtz-carb-py	0 10 20 30 40 50 60 70 80 90	2.5	201 207 210	73% 47%	47%	96466	.06	.002		.10
strong pervasive qtz-carb. alt'n	45 wk	220	45 x 2 10 x 2 35 x 3 15 20	1/10 + 1/20 1/10 x 2 1/20 - 1/10 x 3 1/8 1/10	qtz-chl-py x 2 qtz-chl-py qtz-chl-py x 3 qtz-carb-py (cp) qtz-chl-py (cp)	0 10 20 30 40 50 60 70 80 90	1.5	217 220	98% 100%	80%	96467	.04	.001		.10
	5-50 Mod-Int.	230	0-20 50 - 5	¼ x 2 ?	qtz-carb-py (cp) x 2 qtz-chl-ser-carb (py) ((cp)) 3one	0 10 20 30 40 50 60 70 80 90	2.0	221 230	88%	75%	96468	.04	.002	.04 2735	12
	5-60 Str. fold + Cren.	240	5-60	10'	qtz-ser-carb-chl-py ((cp)) 3one	0 10 20 30 40 50 60 70 80 90	8.0	237 240	74%	75%	96469	.02	.003		.14
small fault	5-50 Str-Mod	250	5 10 5 50 x 2	2' 2' 1½' 1/20 x 2	qtz-ser-carb-py (cp) qq-bx qtz-carb-chl-py (cp) qtz-chl-py x 2	0 10 20 30 40 50 60 70 80 90	3.0	242 245 250	67% 74%	12%	96470	.05	.002		.15
	90-60 Mod	260	60 x 5 60 x 2 70 80-60	1/20 x 5 1/20 x 2 1/20 1'	qtz-chl-py x 5 qtz-chl-py (cp) x 2 qtz-chl-cp chl. carb - py zone	0 10 20 30 40 50 60 70 80 90	2.5	257 260	86%	51%	96471	.05	.002		.12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-25
SHEET No. 5 of 9

BOTTOM DEPTHS: LEACH CAP | LIM. ZONE | SUPERGENE | REMARKS

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	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	45-50 Mod		270		45-50	10'	qt3-chl-carb (py) zone	0 10 20 30 40 50 60 70 80 90	2.0	267	92%	58%	96472	.05	.001	.04 2690	.08
	50 WK.		280		15±2 50 30	⅛×2 ⅛ ½ 4'	qt3-chl-carb-py×2 qt3-carb-py qt3-carb. highly broken core	0 10 20 30 40 50 60 70 80 90	1.0	273 277 279	93% 100% 60%	38% 280	96473	.08	.002		.05
	ND		290		20 25×6 15×3 40×2 80 5 60-70×10	30" ⅛-1/20×6 1/20×2 1/10×2 ⅛ ⅛ 1/20-⅛×10	qt3-ser-carb-py (cp) zone qt3-chl-py×2 qt3-chl-py×3 qt3-carb-py (cp)×2 qt3-carb-py qt3-chl-py (cp) qt3-carb-chl-py (cp)×10	0 10 20 30 40 50 60 70 80 90	3.5	287	75%	50% 290	96474	.07	.003		.12
296 SAUS. ALT'D FINE	ND.		300		? 20? 10+20+15×3 40×3	30" 3' 1/10×5 1/20-1/10×3	chl-pied-cp (py) zone chl-pied-cp (py) zone qt3-chl-carb-py ((cp))×5 qt3-chl-py (cp)×3	0 10 20 30 40 50 60 70 80 90	2.5	295.6	98%	67% 300	96475	.05	.002		.14
MED GRN DIORITE (296'-420') This may be a diff rx type - composition appears similar but tex. is diff. plus the rx shows strong saus.	45 W∠		310		15+5×2 20×4 30×2 5 5 5×2	1/10×3 1/10×4 ⅛ ¼ ⅓	qt3-chl-py (cp)×3 qt3-chl-py qt3-chl-py qt3-py qt3-carb-py (cp) qt3-carb-py (cp)	0 10 20 30 40 50 60 70 80 90	2.0	305.6	96%	70% 310	96476	.05	.001		.10
- Tex. consists of saus. plag porphyroblasts, rounded and up to ½' dia, in a seriate matrix of saus plag, chl. and interstitial qt3. Avg. grn size of matrix is ~ 1/16" dia			320		30-40×6 35×5 15×4 15	1/20×6 1/10-1/20×5 1/20×4 1/10	qt3-chl-py×6 qt3-chl-py (cp)×5 qt3-chl-py×4 qt3-chl-py (cp)	0 10 20 30 40 50 60 70 80 90	1.5	315.6	75% 111%	70% 320	96477	.05	.001	.06 2695	.10

GRID _____ GIBRALTAR MINES LTD. HOLE No. 86-25 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
	45 wk		330		45 45+60+40 40 45 x2 40-50 x 5	12" 1/20 x 3 1/10 1/8 + 1/10 1/20 x 5	qt3-chl-ep qt3-chl-py x3 qt3-chl-py qt3-chl-py x2 qt3-chl-py x5	0 10 20 30 40 50 60 70 80 90	1.5		324	102%	86%	96478	.09	.001		.08
	40 wk-mod		340		40 x 3 45 30 45 x 3	1/20 x 3 1/10 1/10 1/20 x 3	qt3-chl-py x 3 qt3-chl-py qt3-chl-py qt3-chl-py x 3	0 10 20 30 40 50 60 70 80 90	1.0		331 335	98% 80%	44%	96479	.06	.002		.05
	ND		350		35 ? 5 x 2 ?	1 1/2' 2 1/2 1/4 + 1/8 3'	qt3-chl-carb (py) zone ep (qt3)(carb)-py-cp zone qt3-chl-py x 2 chl-ep (p-y)	0 10 20 30 40 50 60 70 80 90	2.5		342 347	92%	62%	96480	.09	.002		.14
	45-65 str.		360		50 x 3 60 + 30 + 5 45-55	1/20 x 3 1/8 + 1/10 x 2 6'	qt3-chl-py (cp) x ? qt3-carb-chl-py x 3 qt3-carb-chl-(mag)(py)((cp))	0 10 20 30 40 50 60 70 80 90	2.0		357	95%	63%	96481	.06	.002	.06 2600	.12
	60-70 str		370		60-70	10'	qt3-carb-chl-(py)((cp))	0 10 20 30 40 50 60 70 80 90	1.5		367	90%	8%	96482	.11	.001		.12
	80 str.		380		80	10'	qt3-carb-chl (py)	0 10 20 30 40 50 60 70 80 90	1.0		376	90%	46%	96483	.03	<.001		.10

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-25
SHEET No. 7 of 9

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	70 WK		390		45×2 80 80 45×2 80×2	Y10×2 Y4×2 3' Y20×2 1"+1Y2	qt3-chl-py×2 hem-carb-qg×2 carb-chl-py-cp qt3-chl-py×2 qt3×2	0 10 20 30 40 50 60 70 80 90	1.0	385 388	99% 70%	45% 390	96484	.06	.001		.12
	70 WK		400		70 45 80+70 25	Y20 Y2 Y4 Y4×2 X4×2	qt3-chl-py qt3 qt3-chl-carb qt3×2 qt3-carb×2	0 10 20 30 40 50 60 70 80 90	0.5	397	92%	75% 400	96485	.09	.002		.05
	60 WK		410		35 70-80×10 35+70 45	6" hle-Y20×10 Y4+Y3 Y10	qt3-carb-chl qt3-chl-py×10 qt3-carb cutting + displacing qt3. qt3-chl-py	0 10 20 30 40 50 60 70 80 90	0.5	407	100%	92% 410	96486	.09	.001	.09 2555	.05
	70 WK		420		15 70×3 80+70×2 60-70×6	Y2 hle-Y20×3 Y4+Y8×2 Y20×6	qt3-hem qt3-chl-py qt3-chl-py + qt3-chl-py(cp)×2 qt3-chl-py×6	0 10 20 30 40 50 60 70 80 90	1.0	417	102%	85% 420	96487	.05	.009		.05
FINE-MED GRN. DIORITE (420-507') same as 137'-291' - that is, sauss. alt'n is weak or absent - most of the core shows	80 Mod		430		70×2 80	Y20×2 7'	qt3-chl-py×2 qt3-carb-chl(py)	0 10 20 30 40 50 60 70 80 90	0.5	427	93%	52% 430	96488	.03	.006		.06
chl-carb alt'n either pervasive or in strong zones accompanied by strong shearing and incr. sulfides.	80 WK		440		80 50 45	6' 3" Y10	chl-qtz-carb-py(cp) massive py chl-carb-py(cp)	0 10 20 30 40 50 60 70 80 90	50	437	100%	70% 440	96489	.09	.001		.12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-25
SHEET No. 8 of 9

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
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 %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	ND	450	25 + 20 60 50 10x2	⅛ + ¼ ⅛ 1/10 ⅛ + ¼	qtz-chl-ep-py (cp) x 2 qtz-chl-py qtz-py qtz-carb-chl-py (cp) x 2	0 10 20 30 40 50 60 70 80 90	1.0		447	100%	77%	96490	.11	.001	.07 2510	.12
	ND	460	75 60 40 15 75 + 90	12' 1/10 1" 2" 1/8 ¼ + 1/10	chl-ep-carb-py (cp) qtz-chl-carb-py qtz qtz chl-ep-py-cp qtz-chl-carb-py x 2	0 10 20 30 40 50 60 70 80 90	1.0		457	100%	76%	96491	.19	.001		.14
	ND to 80 wk	470	Box S 80	hlex S 3½'	chl-py x S qtz-chl-carb-ser (py)	0 10 20 30 40 50 60 70 80 90	2.0		467	94%	72%	96492	.05	.001		.07
	80 Mod-str	480	80	10'	qtz-chl-carb-ser (py) ((cp))	0 10 20 30 40 50 60 70 80 90	3.0		477	100%	70%	96493	.17	.001		.08
	80 str.	490	80 , 50	7' 2"	qtz-chl-carb-ser (py) qtz-ep-carb-py (mag)	0 10 20 30 40 50 60 70 80 90	1.5		487	100%	75%	96494	.08	1.001		.12
	5-70 Str. Crem	500	5-70	10'	qtz-carb-ser (py) *mag (cp)	0 10 20 30 40 50 60 70 80 90	0.5 + 2.0% Mag.	* mag occurs as trains of microscopic grains which lie along foln planes - associated with ep -	497	92%	56%	96495	.04	1.001	.10 2465	.14

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-25
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 %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
E.O.H 507'	5-60 Str. Cren		5-60	7'	qtz-carb-ser-mag(py)(cp)	0 10 20 30 40 50 60 70 80 90	0.5 ~3.0 mag.		507	100%	76%	96496	.12	.001	.09	.14
B.O.B						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. 86-26
SHEET No. 1 of 8

LOCATION: SAWMILL ZONE
DATE COLLARED: 22-Aug-86
DATE COMPLETED: 22-Aug-86
BEARING: –
LENGTH: 507'
DIP: -90°
LATITUDE: ~33,996.00 N
DEPARTURE: ~47,738.00 E
ELEVATION: 2,903'
CORE SIZE: N.Q.W.
SCALE OF LOG: 1" = 10'
LOGGED BY: G.D.B
DATE: August 26 1986
REMARKS: *this hole intersects the footwall of the West Boundary Fault

ROCK TYPES & ALTERATION	∠ to Core Foliation	Graphic Log Footage	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	Sample Number	% Cu	% Mo		Estimated Grade
Casing To 66'		66				0 10 20 30 40 50			66							
MAJOR FAULT ZONE (66'-91')		70		17'	"solid qq"	60 70 80 90			70	75		11201				
	ND	80				0 10 20 30 40 50 60 70 80 90	?		72 76 79 81	0 25 98 98	0	11201	.31	.022	.31 2825	?
	ND	90		10'	qq + bx	0 10 20 30 40 50 60 70 80 90	?		85 87 90	70 90 75	0	11202	.24	.014		?
BROKEN & ALT'D ZONE soft clay alt'd qtz diorite with numerous bx zones and qq zones	55 str	100	? 60	5" 1/10	qtz-cp* qtz-chl-cp	0 10 20 30 40 50 60 70 80 90	?	*def .15% Cu equiv	93 99 100	95 98 75	3	11203	.40	.022		.30
- structure and rx types gen. not distinct - This is the foot wall of the fault zone (91 - 125)	55 str	110		2' 1'	qq qq	0 10 20 30 40 50 60 70 80 90	<.5?		107 110	40 98	0	11204	.43	.040		.15?

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-26
SHEET No. 2 of 8

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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
	45 str	120	60 x 2 80 " 70 45 80	2" + 1 6" " 14" 1/20 1/10 1/10	qt3 x 2 " " MoS2 qt3-chl-cp qt3(cp)		?
125	45 str						.5
FINE-MED. GRN. MINE PHASE		130	5 60 20 35 x 2	1/8 3" 1/8 1/10 x 2	qt3-ep-carb-cp ep-py(cp) chl-cp chl-cp x 2		
QUARTZ DIORITE (125'-319') 20-30% qt3 50-60% saus plag. 15-20% chl 1-5% cp clots	35	140	50 40 x 2 30 25	1/10 1/10 x 2 1/20 1/4	chl-cp qt3-carb-cp(mag) chl-cp qt3-chl-cp		0.5
grn size 1/20-1/10" -rx is soft and mod vuggy with fine dissem py-(cp) or py-(cp) along foln planes - only the larger veins are shown in the structure-min. columns	40	150	" 40 x 2 35 30 x 2 20	1/10 1/8 x 2 1/2 1/10 x 2 1/5	qt3-chl-py(cp) qt3-chl-py-cp + qt3-carb-py-cp qt3-chl-py-cp qt3-chl-carb-cp x 2 qt2-(py)		1.0
poss small steep fault	?	160	5' 45 x 2 5	5' 1/8 x 2 2'	highly broken zone qt2(cp) x 2 gg-bx		?
	45 str	170	5 x 2 60+25 x 2 + 45 20+60+45 20+30 25 x 2+10	1/20 x 2 1/8 x 4 1/10 x 3 1/4 + 1/8 1/8 x 2 + 1/4	chl-cp x 2 qt3-chl-py-cp x 4 chl-py-cp qt3-chl-cp x 2 qt2-chl-cp x 2 + qt3-cp		1.0

Footage Discr.	Estimated Core Recovery %	RQD	Sample Number	% Cu	% Mo		Estimated Grade
112	98						
	85	0	11205	.33	.024		15
120							
121	98						
122	98					37	
	90	3	11206	.50	.018	2780	20
125.6							
127	98						
130	98						
	98						
134							
135.6	98	6	11207	.45	.014		.25
138	98						
	75						
142							
	75	6	11208	.48	.018		25
147							
149	98						
152	85						
	50	0	11209	.44	.040		?
155							
	75						
159							
161	90						
	75	2.7	11210	.47	.020	.46	.35
165						2735	
167	98						
170	85						

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 86-26
SHEET No. 3 of 8

ROCK TYPES & ALTERATION	∠ to Core Foliation	Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	Estimated % Pyrite	Remarks	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
	30 Str.	190	40 30 30 30 5 30 x 2 35x2 30 40	1/20 1/10 1/8 1/4 1/4 1/2 x2 1/8x2 1/8 1/10	chl-carb-cp qtz-chl-cp qtz-cp(Mo) qtz-chl-cp qtz-chl-cp qtz-chl-cp(Mo) x 2 qtz-chl-carb-py-cp x 2 qtz-cp qtz-chl-py-cp	1.0		175 178	98 85	27	11211	.55	.038		.40
@ ~ 190' the rx becomes sl. finer gr'nd and more sheared - it is still a Q.D. but no longer resembles ... Q.D.	25 Str	190	15 15 30 35 15 60 + 45 45 40 x 2	1/8 1/4 1/6 1/10 1/2 1/8 x2 1/2 1/10 x2	qtz-chl-cp qtz-chl-cp qtz-chl-cp chl-cp-py qtz-chl-cp chl-cp x 2 qtz-chl-cp qtz-chl-py x 2	1.0		185 190	90 90	20	11212	.54	.024		.40
	30 Str	200	35 25 15+20 20 15x2 20 25 25	1/2 1/8 x2 1/8 x2 1/2 1/4 + 1/8 1/8 1/4 1/8 + 1/2	qtz-chl-cp qtz-chl-py-cp x 2 qtz-chl-py-cp x 2 qtz-chl-carb-py-cp qtz-chl-carb-py-cp chl-cp qtz-chl-cp qtz-chl-py-cp	1.0		196 199	95 98	23	11213	.50	.028		.30
	30 Str	210	40+20+15 40x2 5x2 50	1/8 x 3 1/10 x 2 1/4 x 2 1/4	qtz-chl-py-cp qtz-chl-py-cp x 2 qtz-chl-cp chl-py(cp)	1.0		205 210	98 40	17	11214	.42	.018		.25
	?	220	45 30 60	1/8 1/4 1/5	broken + lost core qtz-cp qtz-chl-cp qtz-carb-(cp)	0.5		212 217 221	50 40 0	0	11215	.64	.018	.52 [illegible]	.25
	60	230	20 + 40 60 60	1/8 + 1/4 30" 12"	qtz-carb-py(cp) x 2 qtz-carb (py)(cp) zone chl-py-(cp) zone	1.0		227 230	70 75	3	11216	.26	.014		.20

BOTTOM DEPTHS	
LEACH CAP	
LIM. ZONE	
SUPERGENE	

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-26
SHEET No. 4 of 8

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Discrip.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	40 Str.		240		50 45-50x10 30 25x3 35x3 5x3+45x4	12" 1/10-1/8x10 1/8 1/8x3 1/4+1/8+1/10 1/10x7	chl-carb-py(cp) zone qt3-chl-py(cp)x10 qt3-chl-py(cp) qt3-chl-py-cpx3 qt3-chl-carb-py(cp)x3 qt3-chl-py(cp)x7	0 10 20 30 40 50 60 70 80 90	4.0	234 239	95 95	3	11217	.22	.012		.15
	30 Mod		250		15x5 45+60+30+20 15x2 30-60x10 40x2 30x3 60	1/8x5 1/10-1/8x4 1/2x2 1/20-1/10x10 1/8x2 1/4+1/8x2 1/4	qt3-chl-py(cp)x5 qt3-chl-pyx4 qt3-(Mo)+qt3-py(cp) qt3-chl-pyx10 qt3-chl-py(cp)x2 qt3-chl-pyx3 qt3-carb-py	0 10 20 30 40 50 60 70 80 90	4.0	244 249	95 98	10	11218	.19	.012		.13
	25 Str.		260		20 15x2 5 10x3 5x2	1/10x3 1/2+1/5 1/4 1/4x3 1/10x2	qt3-chl-pyx3 qt3-chl-carb-py(cp)x2 qt3-carb-cp-py qt3-chl-pyx3 qt3-chl-carb-pyx2	0 10 20 30 40 50 60 70 80 90	3.5	254 257 260	95 35 98	20	11219	.21	.008	.27 2695	.12
	25 Str		270		45x3 10x2	1/10x3 1/4x2	qt3-chl-ser-pyx3 qt3-carb-py(cp)x2	0 10 20 30 40 50 60 70 80 90	3.5	266 270	98 98	27	11220	.19	.010		.12
	25 Str		280		25x3 70 40 15 40x2 20 5-10x4 20x2 5-45	1/20x3 1" 1/3 1/10 1/10x2 1/5 1/4x4 1/4x2 1/10+1/4	qt3-chl-pyx3 qt3 qt3-chl-py qt3-chl-py(cp) qt3-chl-pyx6 qt3-chl-py(cp) qt3-chl-py(cp)x4 qt3-chl-py(cp)x2 qt3-chl-py(cp)x2	0 10 20 30 40 50 60 70 80 90	4.0	272 274	95 98	20	11221	.22	.018		.14
	30 Str.		290		5 5 5 40x3 30+45+30 20x2 20+15+2+30	1/4 1/8 3/4 1/10x3 1/10x4 1/8x2 1/10x3	qt3-chl-py-cp qt3-chl-carb-py-cp qt3-chl-carb-py-cp qt3-chl-pyx3 qt3-chl-pyx4 qt3-chl-py(cp)x2 qt3-chl-py(cp)x4	0 10 20 30 40 50 60 70 80 90	4.0	287	98 95	33	11222	.24	.012		.25

GRID ____

GIBRALTAR MINES LTD.

HOLE No. 86-26
SHEET No. 5 of 8

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
	30 Str	300	30 20+2 5+2 30 5+2 5+30	½ ⅛×2 1/10×2 ½ ⅛×2 1/10×2	qt3-chl-cp-py(cp) qt3-chl-py ×2 qt3-chl-py×2 cp qt3-chl-py×2 qt3-chl-py×2	0 10 20 30 40 50 60 70 80 90	2.5	292 297	95 95	33	11223	.09	.007		.10
	40 Mod	310	80 5+20+15 45+80 20+15+60 30+2	2" 1/10×3 ¾×1 ¼×3 ⅛×2	qt3 qt3-chl-py×3 qt3-cp-py cut by qt3(vug) qt3 ×3 qt3-chl-carb-py(cp)×2 } 3' broken zone	0 10 20 30 40 50 60 70 80 90	2.5	304 307 310	40 30	23	11224	.12	.007	.18 2600	.14
319	40 Str.	320	15+10+30 20+15 5 40 30 45 45	1/10×3 ¼×2 ½ 10 ¼ ½ 14"	qt3-chl-py×2 + qt3-carb-py qt3-chl-py×2 qt3-(chl) py-cp qt3-chl-py zone qt3-chl-py(cp) qt3-cp chl-carb-py zone	0 10 20 30 40 50 60 70 80 90	3.0	315 319	45 90	13	11225	.18	.004		.15
QTZ-CHL.-SER-CARB. SHEAR ZONE (319-381') a zone of alt'n, shearing and minor	60-70 Str sl. Cren	330	60-70	10'	qt3-chl-carb(ser)-py(cp) zone	0 10 20 30 40 50 60 70 80 90	2.0	322 327	90 95 95	20	10626	.16	.005		.12
crenulation - proportions of alt'n minerals vary from qt3-ser-carb to chl-carb over >5' intervals	65 Str.	340	65	10'	qt3-ser-carb-(chl)-py(cp) zone	0 10 20 30 40 50 60 70 80 90	2.0	332 337 339	40 45	7	10627	.21	.006		.10
- a finely dissemblk mineral is present - poss. Tourmaline - fine py(cp) dissem occur throughout zone, often along foln planes.	70	350	70	10'	qt3-ser-carb-py(cp)	0 10 20 30 40 50 60 70 80 90	2.0	347	85 80	13	10628	.19	.004	.18 2555	.14

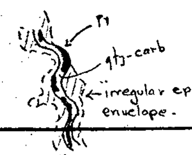
GRID _____ **GIBRALTAR MINES LTD.** HOLE No. 86-26 SHEET No. 6 of 8

BOTTOM DEPTHS: LEACH CAP | LIM. ZONE | SUPERGENE

REMARKS

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
	80 Sl. Crea.	360	80	3' / 7'	qtz-carb vein; carb-chl-py(cp) 3one *	0 10 20 30 40 50 60 70 80 90	1.5	* in places the chl. is bright green (like mariposite)	351 missing blk.	90	27	10629	.08	.004		.10
	45-60 Str.	370	45-60	10'	qtz-chl-carb-ser-py	0 10 20 30 40 50 60 70 80 90	2.5		367	98	23	10630	.05	.002		.10
	45-70 Str Crea	380	45-70	8' / 2'	qtz-chl-carb-ser-py(cp); chl-carb 3one	0 10 20 30 40 50 60 70 80 90	3.0		372 380	98	30	10631	.06	.005		.12
381' FINE-MED GRN DIORITE (381-452) grades To a QD in places but is distinctly different from the Mine Phase Q.D. – 20-30% chl. 50-60% sauss plag 10-20% qtz	ND	392	40+2 30 80 30 60 ?	1/10 x 2 1/10 1" 1/8 2" 2'	qtz-chl-carb-py x2 qtz-chl-carb-py qtz qtz-chl-carb-py qtz-py (cp) ep-chl 3one	0 10 20 30 40 50 60 70 80 90	1.0		387	98 98	13	10632	.08	.003		.08
+ in places large clots and stringers of ep rx has a sciatic tex. with large (1/4-1/8") plag. pheno's in a matrix of finer grns (cataclastic deform.?)		400	5x2 45 5x2 40+30 20 5	1/20 x 3 1" 1/10 - 1/8 1/10 x 2 1/8 1 1/2	hem-qtz x 3 qtz (chl) qtz-ep-py x 2 qtz-chl-py x 2 qtz-ep-py qtz-ep-py	0 10 20 30 40 50 60 70 80 90	1.0		392 397	98	37	10633	.06	.003	-07 2510	.08
		410	30 45+30 50+20+30 5x2 90+45	1/10 1/10 x 1/8 1/8 x 3 1" - 1/10 1/10 x 2	qtz-chl-py qtz-chl-ep-py x 2 qtz-ep-carb-py x 3 carb-ep-py x 2 qtz-chl-py x 2	0 10 20 30 40 50 60 70 80 90	2.0		407	98	53	10634	.09	.004		.05

GRID ______ | **GIBRALTAR MINES LTD.** | HOLE No. 86-26 | SHEET No. 7 of 8

ROCK TYPES & ALTERATION	∠ to Core Foliation	Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	Estimated % Pyrite	Remarks	Footage Blocks	Estimated Core Recovery %	RQD	Sample Number	% Cu	% Mo		Estimated Grade
This rx also shows much ep as envelopes around qtz and qtz carb py veins* – two distinct vein types are present: qtz carb-py with ep halo's	ND.	ND 420	5 5 5-15×4 20+15	1" 1/4 1/10×4 1/10×2	qtz-carb-ep±py qtz-carb-ep-py qtz-chl-ep-py×4 qtz-chl-py (cp)×2	1.0		417	98	50	10635	.06	.003		.08
and qtz-chl-py. Most of the ep veins are steep	ND	430	15×2+20 15+50 10 30-10×4	1/8×2+1/4 1/10×2 1/2 1/10×4	qtz-chl-carb-py×3 qtz-chl-py×2 qtz-chl-ep-py(cp) qtz-chl-py×4	1.5		427	98	67	10636	.09	.002		.08
	ND	440	5×2+50×2 5 20×2 5+10	1/10×4 1/5 1/10×2 1/8-1/10	qtz-chl-py×4 qtz-chl-py qtz-chl-py×2 qtz-chl-py×2	1.0		432 440	98 95	53	10637	.08	.003	.08 2465	.05
	ND	450	60 10 5+20 5×3 70+45	1" 1/4 1/8×2 1/8×3 1/10×2	qtz qtz-chl-py qtz-ep-py×2 qtz-ep-py×3 qtz-ep ×2	1.5		447	95	53	10638	.12	.004		.05
452 QTZ-CHL-CARB (SER) SHEAR ZONE (452-482) similar to 319-381'	80 str	460	80	3' 18'	chl-carb(py) zone qtz-carb-chl-ser(py) zone	1.0		457	93	23	10639	.05	.002		.08
	80 str Cren	470				1.0		467	98	37	10640	.06	.003		.10

FRACTURE ANGLE TO CORE AXIS -FREQUENCY- (scale 0–90 per interval; no entries)

BOTTOM DEPTHS: LEACH CAP ___ LIM. ZONE ___ SUPERGENE ___

GRID _____ **GIBRALTAR MINES LTD.** HOLE No. 86-26 SHEET No. 8 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 %	R O D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	45-75 Str.	480	45-75	12'	chl-carb(py) zone	0 10 20 30 40 50 60 70 80 90	2.0		476	95	63	10641	.07	.003		.12
482										85						
DARK GREEN FINE GRN DIORITE (482-507)	80 Mod	490	60×3 60+30+40	½0×3	qtz-chl-py×3 qtz-chl-py×3	0 10 20 30 40 50 60 70 80 90	2.0		483 486 488	95 98	57	10642	.06	.007	.07 .092	10
similar to the above diorite but with ~ 30-40 % chl. and no visible qtz. - also sl. bx. tex. with ep. clots in chl. matrix - in this respect.	80 WK	500	½0 5×3 60-40×5 50+45	½0 ½0×3 ½0-⅛×5 ⅛×2	qtz-chl-py carb×3 qtz-carb-chl-py×5 qtz-chl-carb-py×2	0 10 20 30 40 50 60 70 80 90	2.5		497	75	3	10643	.06	.004		12
The rx in places approaches Cache Ck Meta-andesite. EOH 507' B.D.B		SX	70 5-60×6 70-80×4 80 90×3	½ ⅛-¼×6 ½0×4 z ⅛ ½0×3	carb carb×6 qtz-chl-py(ep)×4 qtz (ep) qtz-chl-py(ep) qtz-carb-chl-py×3	0 10 20 30 40 50 60 70 80 90	2.0		507	94		10644	.09	.003		14
						0 10 20 30 40 50 60 70 80 90									.07	
						0 10 20 30 40 50 60 70 80 90										

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-27
SHEET No. 1 of 5

LOCATION SAWMILL ZONE | BEARING – | LATITUDE ~33,779 N | CORE SIZE N.Q.W. | LOGGED BY G.D.B.
DATE COLLARED 23-Aug-86 | LENGTH 351 | DEPARTURE ~47,531 E | SCALE OF LOG 1" = 10' | DATE Nov. 14 1986
DATE COMPLETED 23-Aug-86 | DIP -90° | ELEVATION ~2,895' | REMARKS hole was abandoned at 351' and did not intersect the projected ore zone. See below *

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
Casing To 131'																
131' MAJOR FAULT ZONE (131'-175')	?	140		10	(gg)-bx		?	no limonite * this hole intersects the West Boundary Fault Zone at ~250-290' - another fault occurs at 131'-175'	131 / 133 / 137 / 140	50 / 30 / 40	0	96251	.01	<.002		?
main gg zone occurs at 140'-163' - this also crosses a rx change from mainly Cache Crk frags above to mainly pale diorite frags below	?	150		10'	gg ((bx))		?		145	20 / 85	0	96252	<.01	<.002		?
- that is, the main dislocation may take place at ~160'.	?	160		10'	gg (bx)		?		152 / 157	20	0	96253	<.01	<.002	<.01 2735	?
	?	170		10	gg-bx		?		164	90 / 30	0	96254	.01	<.002		?

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-27
SHEET No. 2 of 5

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	GRAPHIC LOG: Footage	GRAPHIC LOG: Silicification	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
175'	ND					5'	gg-bx		0		171	25	0	96255	<.01	<.002		0
BLEACHED DIORITE (175'-188')			180			5'	broken rock				175	85						
a pale grey med-coarse grn rx having a bleached appear. ~25% chl. ~10-15% interstitual qtz ~60-65% white plag	ND				70	1"	qt3		0		177	90						
			190								179	90						
- the chl. appear chalky and poorly defined - this rx is a common type well exposed south of 79-11	?					12'	gg-bx		?	rock change occurs @ ~196'	185	90	3	96256	<.01	<.002		0
FAULT ZONE (188-200')			200								187	50						
											194	75	0	96257	<.01	<.002		?
											198	85						
EPIDOTE - CHLORITE PIEDMONTITE BRECCIA a mottled chl-green epidote green and pink rx. consisting of ep-pied. clots up to 3" dia in a predominately chloritic matrix. (200-216')	ND		210			10'	broken core		<0.5		205	85	3	96258	<.01	<.002	<.01 Zn 2690	.05
											208	50						
	ND					8" 3" 6" 7"	carb qt3 carb qt3					85	7	96259	<.01	<.002		
BLEACHED DIORITE (206'-231')	30-80 str.		220				zone of strong shearing and poss silicification				217							
similar to (175-188)	ND				70	1/4	qt3					98	13	96260	.01	<.002		
			230		70	2"	qt3				227							

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-27
SHEET No. 3 of 5

BOTTOM DEPTHS: LEACH CAP | LIM. ZONE | SUPERGENE | REMARKS

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	Footage Blocks	Estimated Core Recovery %	R O D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
				60	45		qtz (blue)	0 10 20 30 40 50 60 70 80 90		231							
EPIDOTE - PIEDMONTITE CHLORITE BRECCIA (231'- 251') Similar to 200-216 but less piedmontite	ND		240			2"	qtz		0	235	45	0	962261	<.01	<.002		0
										239	60						
and also contains zones of bleached diorite - The matrix also appears to be less chloritic and more fragmental - this is poss. a meta. vol. pebble conglomerate.	ND		250				highly broken core	0 10 20 30 40 50 60 70 80 90	0	247	85	16	962262	<.01	<.002	<.01 #695	0
											74						
CLAY ALT'N ZONE (251'-289') same as above but the rx is soft, appears crushed and is clay	ND		260					0 10 20 30 40 50 60 70 80 90	0	252							
										254	75	20	962263	.01	<.002		0
										257	100						
alt'd — is this part of the fault zone? - The core is largely intact but appears to be a jumble of angular frag's in a clayey matrix - the can easily be	ND		270				no vein str. or mineralization numerous 70-90° clayey shears	0 10 20 30 40 50 60 70 80 90	0	267	98	23	962264	<.01	<.002		0
broke by hand, usually along flat lying clayey shears. - actual gg. occurs @ 285-289 at the contact - this zone is very likely a fault zone	ND		280				as above except random patches of dissem py	0 10 20 30 40 50 60 70 80 90	0.5	277	92	28	962265	<.01	<.002		0
as a major rock change occurs at its base!			289				broken core	0 10 20 30 40 50 60 70 80 90	0	287	83	4	962266	<.01	<.002		0
			290	70°		4'	gg-bx										

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-27
SHEET No. 4 of 5

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation/Alteration, Footage, Silicification	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	REMARKS	Footage Discr.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
QUARTZ DIORITE (289'-351') Prob. Mine Phase ~25% chl. ~25% qtz ~15% ep clots 25-30% wk. sauss plag. a soft dark med. grn (1/16" dia) rx which when coarser grn'd does resemble Mine Phase - soft, sheared and broken from ~289' to	80 Str	300	80	10'	qtz-chl-carb (mag)(py)((cp)) 3one + random gyp. veins	0 10 20 30 40 50 60 70 80 90	1.0		295	70	14	96267	.17	.002	.02 2600	.10
	45-80 str. sl. Cren.	310	45-80	10'	qtz-chl-carb(ser) (py)((cp)) 3one + random gyp. veins	0 10 20 30 40 50 60 70 80 90	1.0		305	94	20	96268	.14	.004		.12
310' due likely to the fault but this is also an area of pre-fault shearing and alt'n. - weak gyp-qtz-mag begins at 289' and increases towards EOA - the main gyp-qtz	45-80 wk	320	45 10+45+80 60 80 40+60 80 70	2½' 1"+⅓+3 ½ 1/10 ⅛+1/10 1½' 2½	qtz-chl-carb 3one qtz((cp)) x 3 qtz-mag-cp chl-mag-cp gyp x 2 chl-carb-gyp 3one qtz-mag	0 10 20 30 40 50 60 70 80 90	0.5		315	91	38	96269	.20	.004		.14
3one has not been reached and the high Cu values from the associated mag-cp(bo) are not expected. Py is still present in the intersected 3one and therefore, the mag-cp(bo) 3one is	45 Mod	330	80+60+70+2 80+60 60 40 90 80 80+60 5 10	⅓x3 1/10x3 ⅛ 1/10 3" 1½ ⅛x2 ⅓ ⅛	qtz-carb x 5 gyp x 3 gyp py qtz-mag chl-gyp gyp x 2 qtz-py-cp qtz-py-cp	0 10 20 30 40 50 60 70 80 90	1.5		325.6	92	28	96270	.13	.006		.15
expected to lie at a deeper level.		340	90+80 45 80+70+30 5+60+70 10+20+60 70 40+2 80 90+60	1/10 ±2 1/10 ⅓+1/4+1/4 1/10-⅛+3 ⅛x3 ⅛ ⅛+1/10 3' ⅛x2	qtz-chl-mag-cp x 2 gyp qtz x 3 qtz x 3 py(cp) gyp x 2 qtz-(chl)carb-3one qtz x 2	0 10 20 30 40 50 60 70 80 90	1.0		335.6	98	55	96271	.07	.006	.14 2555	.12
		350	70 30+70 10+60+3+45 5 40 40+2 80+10 80+35+45 40 40+50	1/10 ¼+2 ⅓+¼+⅛+3 ⅓ ½ 1/10+2 ⅓x= ⅓ ½+⅛	qtz-chl-cp-Mo qtz (cp) x 2 qtz x 5 qtz-mag qtz-chl-cp gyp qtz x 5 qtz-mag qtz-chl-cp	0 10 20 30 40 50 60 70 80 90	0.5	beginning of qtz stockworks and fine dissem. cp.	346	100 90	64	96272	.24	.014		.20

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-27
SHEET No. 5 of 5

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 Block	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
		EOH 351'			90	1/8	qtz-chl-cp ±z-mag	0 10 20 30 40 50 60 70 80 90										
		B.A.B.						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. 86-28
SHEET No. 1 of 7

LOCATION SAWMILL ZONE | BEARING — | LATITUDE ~ 31,049 N | CORE SIZE N.Q.W. | LOGGED BY G.D.B
DATE COLLARED 21 - Aug - 86 | LENGTH 503' | DEPARTURE ~ 47,253 E | SCALE OF LOG 1" = 10' | DATE Dec. 1, 1986
DATE COMPLETED 25 - Aug - 86 | DIP -90° | ELEVATION ~2,896' | REMARKS * see remarks column.

BOTTOM DEPTHS: LEACH CAP 0 | LIM. ZONE 0 | SUPERGENE 0

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 %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
Casing To 125'																		
FAULT ZONE (125'-149') most rx frags are	60 Mod		130			5'	broken & lost core		0	this hole intersects a good section of Cache Creek rxs, including ~70' of limestone, and extends through the West Boundary Fault and into the Mine Phase Q.D. - another fault zone was intersected at the surface (125'-149')-this may suggest major fault systems are present west of the W. Boundary Fault - considering the amount of broken and gg'y rx in this hole between the two faults - other holes drilled to the west support this idea - note that two faults were also intersected in 86-27, an upper zone and a lower zone with broken gg'y rx in between.	126	40	0					.01
fine to aphanitic brown weathering rx. but changes within 140-149' to the underlying meta-andesite - this zone is also one of greatest core lost + gg' development and may be the zone of major dislocation	55-60 str.		140			10'	broken & lost core		0		129	30	7					.01
	50° str.					9'	(gg)-bx + ~7' lost core		0		134	50						
149 DARK GREEN META ANDESITE (149'-239') a typical rx. of the local Cache Creek Grp. - a fine grn rx showing 'banding' imparted by alternating dk green chl.-rich bands and dk grey feldspathic bands, or bands of light gry-calc. Laminae usually varies between 1/16" and 1/2" thick. - in a few places, dark grey chert bands (1/2") were noted with disseminated	45-30 Str		150		45	1/2"	chert-mag				141	5						
					50	2'	chert-mag				145	30	7					.01
					40	6"	chert-mag				147	20						
			160								149	55						
									0		153	50	7					.01
											155	60						
grey	45-70 str		170			10'	highly broken core		0		159	20	0					.01
											167	45						

GRID _____ GIBRALTAR MINES LTD. HOLE No. 86-28 SHEET No. 2 of 7

ROCK TYPES & ALTERATION			∠ to Core Foliation	GRAPHIC LOG Foliation Alteration	Footage	Silicification	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
		; this unit is interpret to be a metamorph. sequence of tuffs & volcanic seds. chiefly of andesitic comp.	80 str.					5'	broken & lost core	0 10 20 30 40 50 60 70 80 90	0		171		3					.01
		- this unit is heavily			180			3'	gg-bx				174	30						
		faulted and difficult to log (see RQD.) - it may be a series of fault wedges related to the West Boundary Fault zone - at 225 the rx. changes somewhat	70 str					2'	gg-bx.	0 10 20 30 40 50 60 70 80 90	0		177	50						
													180	45						
								2'-4'	chert-hem (spec.)				183	40	0					.01
					190	5-80							187	30						
		becomes more massive and in places contains clots of ep.				80		1'	chert-hem (spec)	0 10 20 30 40 50 60 70 80 90	0		189	50						
		- the chert-mag and chert-spec. bands are of interest - could this be of exhalative origin?	40-45 Str			5-20		3'	chert (calc) ((py))				194	20	3					.01
					200									40						
			45-60 str			?		4'	(gg)-bx-hem	0 10 20 30 40 50 60 70 80 90	0		199	80	7					.01
					210								206	50						
			35-45 Str			40		5'	gg-bx-hem	0 10 20 30 40 50 60 70 80 90	0		208	55	0					.01
													215	60						
					220	?		30"	gg-bx				218	85						
			?			?		6'	gg-bx	0 10 20 30 40 50 60 70 80 90	0		220	60	7					.01
					230								225	80						

GRID _____ GIBRALTAR MINES LTD. HOLE No. 86-28
SHEET No. 3 of 7

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
239	80? NK	240		4'	highly broken core + minor gg		0		231							
				5'	broken - hem stained zone				234	40	3					.01
									240	80						
BANDED QTZ-CARB. CHLORITE-SERICITE UNIT (239'-315') - Typical Cache Creek Group rxs for this area. - assumed to represent	50 str	250	50	6'	grey cherty zone		0		243	90						
				4'	qt$_3$-carb-ser				245	80	0					.01
									249	70						
a sequence of meta-sedimentary rx.s chiefly of volcanic origin and ranging from rhyolitic to andesitic - the andesitic members differ from the overlying unit in that they are strongly banded	60-80 sl. Cren	260	60-80	7'	qt$_3$-carb-ser		0		257	90	10					.01
			60-70	3'	qt$_3$-carb-ser-chl											
with equal laminae of chl. and qt$_3$-carb. The laminae in this unit ranges from 1/20 to 1/4" thick which the qt$_3$-carb. bands tending to be lensoid with the chloritic and sericitic	60-70 str	270	20?	3'	qt$_3$-carb-ser-chl		< 0.5		267	90	3					.01
			?	12"	qt$_3$											
				30"	chert. carb. - mag(py) band											
				4'	qt$_3$-carb-chl											
material molded around each lens. The carb. is usually light brown weathering	80 str sl. cren	280	60	12"	qt$_3$-carb (cp)		0	core is soft and friable	277	90	10					.10
			80	9'	qt$_3$-chl-carb	dk grey chl - not the usual dk green also - white carb not brown in weathering										
	80-90 str	290	80-90	10'	qt$_3$-chl-carb		0		287	75	0					

GRID _____

GIBRALTAR MINES LTD.

HOLE No. B6-28
SHEET No. 4 of 7

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
	70-80 str	300	70-80	10'	qt_3-chl-carb	0 10 20 30 40 50 60 70 80 90	0		297	85	0					.01
	60-70 str	310	60-70	10'	qt_3-chl-carb	0 10 20 30 40 50 60 70 80 90	0	core is soft & friable	307	85	0					.01
315	10-60 str		10-60			0 10 20 30 40 50 60 70 80 90	0		317	98	17					.01
GREY LIMESTONE UNIT (315-351') a pale to med grey fine grn rx with fine micaceous parting- dk color is due to a dk grey "dust" scattered throughout the rx and in places defining a weak foln - also present is finely disseminated py.	ND	320														
-the rx fizzes readily in wk HCl. • this appears to be a limestone not marble & the mica parting prob. represent bedding planes- that is attitudes in the foln column may be bedding angles.	60-70 wk	330				0 10 20 30 40 50 60 70 80 90	≤ 0.5		327	95	50					.01
	70-80 wk	340				0 10 20 30 40 50 60 70 80 90	≤ 0.5		337	95	53					.01
	80 wk	350				0 10 20 30 40 50 60 70 80 90	≤ 0.5		347	95	17					.01

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-28
SHEET No. 5 of 87

BOTTOM DEPTHS: LEACH CAP | LIM. ZONE | SUPERGENE

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	REMARKS	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
351																		
MIXED CALCAREOUS UNIT (351'-370') a mixture of the overlying limestone and other impure calcareous sediments - poss cut by various qtz-carb veins - also includes some white marble - foln angles are clearly bedding angles	80		360		+2° 30 40 ?	6" 2½' 2'	scarn? - (py)(Sphal.)(Cp) - Fine diss'm. in scarn. gg-bx qtz-chl-ep-carb chl-scarn	0 10 20 30 40 50 60 70 80 90	0.5		357	95	20					.01
	80-90 WK		370		? 70-80 ?	12" 3' 2'	ep-pied-chl scarn brown carb-chl. zone brown-carb-qtz zone	0 10 20 30 40 50 60 70 80 90	2 0.5		362 367	95 90	20					.01
WHITE MARBLE (370'-390') - a white pure rx which readily fizzes in acid. - no structures or bed-planes - contains qtz which is also white and diff. to estimate %'s - at 390' the marble passes abruptly into a dk green chl.-ep bx., assumed to represent a meta-volcanic conglomerate (typical rx type here). This is not considered to be a fault contact!	ND		380			8'	broken zone	0 10 20 30 40 50 60 70 80 90	0		375	90 95	33					.01
	ND		390			7' 3'	highly broken zone healed bx? (marble appears shattered and healed by qtz material)	0 10 20 30 40 50 60 70 80 90	0*		383 387	20	20					.01
MAJOR FAULT ZONE (390'-468') This is a highly broken zone which several strong gg. zones and short secs of intact but friable rx.	?		400		?	8'	solid gg	0 10 20 30 40 50 60 70 80 90	?		397	85	0	96551	.02	<.002		3
Most of the rx appears to belong to the chl-ep bx unit with some scarn and typical meta-andesite - a white qtz-porp (pp) unit occurs @ 437'-447'			410		?	10'	gg-bx (dissem py in some frags)	0 10 20 30 40 50 60 70 80 90	?10?		407	80	0	96552	.06	<.002		?

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-28
SHEET No. 6 of 87

BOTTOM DEPTHS: LEACH CAP | LIM. ZONE | SUPERGENE | REMARKS

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	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
-the main dislocation appears to be at 447' with the abrupt change to med. grn. qtz-diorite frag.'s -this change could also have taken place	?	420	?	10'	gg-bx + ~4' of lost core	0 10 20 30 40 50 60 70 80 90	1.0?	413	60						
								418	65	0	96553	.01	<.002		.05?
at 437' with the first appearance of qtz-porp. depending on whether the Q.P. belongs to the Cache Crk rx's or to the qtz-diorite - assay values may resolve this	?	430		10'	bx (gg) - strong dissem py in scarn frags.	0 10 20 30 40 50 60 70 80 90	2.5?	423	60						
									90	0	96554	.01	<.002		.05
	?	440		10'	gg-bx	0 10 20 30 40 50 60 70 80 90	3.0?	431	80						
								437		0	96555	.05	.002		.05
	?	450		10'	bx-gg + ~5' lost core	strong dissem. py with Q.P. 0 10 20 30 40 50 60 70 80 90	3.0?	447	60	0	96556	.20	.010		.08
								451	50						
	?	460		10'	bx-gg + 5-6' lost core (first cp seen in frags)	0 10 20 30 40 50 60 70 80 90	2.0	457	40	3	96557	.25	.014		.18
	?	470	bx x 3 70	1/2 0 x 3 1/2	qtz-chl-cp x 2 qtz-carb-ep	0 10 20 30 40 50 60 70 80 90	1.0	467	55	0	96558	.39	.014		.25

~1/2" solid cp

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-28
SHEET No. 7 of 17

BOTTOM DEPTHS: LEACH CAP | LIM. ZONE | 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 %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
FINE-MED GRN. QUARTZ DIORITE (468-503) – typical Q.D. as intersected in nearby holes (ie 86-28) but sl. finer grn'd.	60-70	WK		480		60 60 ? 45 45	½ ½ 12" 1" ¼	qtz qtz-chl-cp gg-bx qtz-mag(cp) qtz-chl-cp fine dissem. cp(bo)	0 10 20 30 40 50 60 70 80 90	<0.5	~¼" solid cp	473 477	80 30	0	96559	.39	.014		.25
~ 25 o/o chl ~ 20 o/o plag (wk sauss) ~ 15 o/o cp as clots + stringers ∴ this rx is within or close to the gyp-qtz-mag-bx-cp zone as intersected in 86-28.	60-70	WK		490		? 5 ?	7' 2" ¼ 12"	gg-bx qtz-mag (cp) qtz (cp) gg-bx	0 10 20 30 40 50 60 70 80 90	<0.5		483 487	25 20	0	96560	.33	.010		.15?
	70	WK		500		30×2 80 70 70 ×2 80×2+60 60+70 70 45+70 80 70 80×2	⅛×2 ¼ ⅛ ⅛×2 1/10×3 ⅛×2 ⅛ 1/10×2 ½ ⅛ 2" + ¼	qtz + qtz-mag gyp qtz (cp) qtz×2 gyp×3 qtz×2 qtz-mag(bo) gyp-hem×2 qtz-chl-cp qtz (cp) qtz×2 fine dissem cp(bo)	0 10 20 30 40 50 60 70 80 90	<0.5	~¼" solid cp.	493	85 98	20	96561	.21	.004		.25
EOH 503'						45×3 40×2	1/20-⅛×3 1/10×2	chl-cp×3 gyp-hem×2	0 10 20 30 40 50 60 70 80 90			503			96561	.21	.004		.30
K.W.B.									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. 86-29
SHEET No. 1 of 8

LOCATION SAWMILL ZONE | BEARING — | LATITUDE ~ 33,509.00 N | CORE SIZE N.QW | LOGGED BY G.D.B.
DATE COLLARED 26-Aug-86 | LENGTH 501' | DEPARTURE ~ 48,442.00 E | SCALE OF LOG 1"=10' | DATE NOV. 17, 1986
DATE COMPLETED 26-Aug-86 | DIP -90° | ELEVATION ~ 2915' | REMARKS very low recovery and low RQD throughout most of the hole.

BOTTOM DEPTHS: LEACH CAP —; LIM. ZONE —; 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 54'											54							
QUARTZ DIORITE (54'-501')	30 Mod		60	? 15+5 20 30×2 20 5	2" ¼+⅛ 2" ½×2 2" ¼	qt3-py qt3-chl-carb(cp)(cc)+qt3 chl-cp-py qt3-carb-?(py)×2 qt3-carb-chl(py)(cp) qt3-carb-py	0-10-20-30-40-50-60-70-80-90	1.5	no limonite zone	57	90		96326	.14	.004		.18
- med-fine grn size ~1/10 avg. dia - could easily be called a diorite as qt3 is not conspicuous (2 1/30" dia) ~ 30 o/o chl ~ 20 o/o interstitial qt3	35 mod-str.		70	30 35×2 15+20 20 50 10	1/10 1/10×2 1/2×2 1/3 1/4 1/4 12"	chl-cp chl-py×2 qt3-py×2 qt3(cp) qt3-chl-cp qt3-chl-carb-py chl-carb(py)(cp) zone	0-10-20-30-40-50-60-70-80-90	2.0		61 67	85 90	27	96327	.20	.009		.20
~ 35-40 o/o wk. saus plag 10-15 o/o ep as clots and stringers - core has a soft vuggy appear. and contains finely disseminated py(cp) which is often with vuggy ep clots or stringers.	50-70 Mod		80	70 80 70+80 70+30 70 35 70×3 25	⅛ ⅛ ¼+½ 1/10×2 2/5 ⅛ 1/10×3 1/10	qt3 chl-carb qt3(cp)×2 qt3-chl-cp×2 qt3 qt3 chl-py×3 qt3(cp)	0-10-20-30-40-50-60-70-80-90	1.5		73 77	80 85	27	96328	.19	.009		.18
- @ ~160' to EOH the core becomes dark with the incr. in carbt chl. and a decrease in ep. - saus is still present however. - is this the reverse of zoning seen in 79-17 etc	45 wk		90	35+30 30 50 90 15 80 30×2 5-30×3	1/10+¼ 1/10 1/20 ⅛ 1/10 ¼ 1/20 ⅛×2	chl-py+qt3-chl-py qt3(cp) chl-py(cp) qt3-chl-cp chl-py qt3-carb-cp qt3-chl-py×2 qt3-chl-py×3	0-10-20-30-40-50-60-70-80-90	2.0		87	95	50	96329	.01	.002	.16 2.925	.16
	40 wk		100	15+40 45+70 35 5-60×2 5 35-40+45 60 5-2 ?	1/10×2 1/20×2 1/3 1/10×3 ¼ 1/10×3 1/8 1/10×2 ⅛	qt3-chl-py×2 chl-carb-cp×2 qt3-mag(cp) qt3-chl-py(cp)×2 qt3 qt3-chl-carb-py-cp×2 ser-py qt3-chl-py(cp)×2 carb-cp	0-10-20-30-40-50-60-70-80-90	2.0		94	98 100	30	96330	.16	.218		.15

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-29
SHEET No. 2 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 / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
	50 WK-Mod		110		45x4 5x2 20 15 5 10x2 60x3 50x2 45+60+80	¼0-¼0 x 4 ¼0x2 ⅛ ⅓ 7/10" ¼0x3 ¼0x3 ¼x2 ½+¾+2"	qtz-chl-py x 4 chl-py x2 chl-carb-py qtz-chl-carb-py (cp) qtz qtz-chl-carb-py (cp) x2 qtz-chl-py (cp) x3 carb-chl-py x2 qtz (py) x3		2.5		101 107	90 90	23	96331	.14	.016		.15
	70 Mod		120		60 60 60x5 5x2 70 5+60+40 40x2 40x2	¼ 20° ¼0-¼0x5 ¼x2 ⅛ ¼0x3 ⅛x2 ⅛x2	qtz-carb (py) qtz-chl-carb-py (cp) 30° qtz-chl-py (cp) x5 qtz ((cp)) x2 qtz-chl-py qtz-chl-py (cp) x3 qtz (cp) + qtz-chl-py qtz-chl-carb-py x2		2.5		114	90 95	23	96332	.12	.009		.14
	70 Mod		130		60x2 80 10 5 70 20+30+15+3 5 40	¼+¼0 ⅓ ½ 1" ¼0 ¼0-¼0x5 ¼ ½	qtz-chl-carb-py x2 qtz-ser-py (cp) qtz (two gen) (cp) qtz-mag (cp) qtz-cp qtz-chl-py x5 qtz-chl-py (cp) qtz-chl-carb-py		2.0		121 125	90 95	17	96333	.31	.008 P		.15
	50-60 Mod		140		5' 40 40+45	¼ ¼0x2	broken core qtz qtz-chl-py		1.0		131 137 140	90 60	3	96334	.12	.004	.18 2780	.08
	55 Mod		150		5' 10 35 x2 40+2+80 45	¼ ⅛x2 ¼0x3 ⅓	broken core qtz (cp) qtz-chl-py x2 qtz-chl-py x3 qtz-mag (cp)		2.0		150	50	7	96335	.18	.004		.10
	45-55 Mod		160		50 60+45 10-30x5 40	¼ ¼ ¼x2 ¼0-¼0x5 ½	qtz qtz-carb-cp qtz-cp qtz-chl-py x5 qtz-chl-cp		1.5		155 160	60 95	17	96336	.15	.007		.14

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-29
SHEET No. 3 of 8

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	50-60 WK		170	20×2 20+80 15×3 20×2 30+80 45+50	⅓+¼=0.7 ¼+2" 1/10-⅛×3 1/10×2 ⅛×2 1/10×2	qt3-chl-py ×2 qt3×2 qt3-chl-py×3 qt3-chl-py×2 qt3-carb-py(cp)×3 qt3-chl-py(cp)×2	0-10-20-30-40-50-60-70-80-90	2.5		165 168	85 30	27	96337	.12	.009		.12
	50 Mod		180	60 20 40-45×4 40+35 20 15	⅛ ¼ 1/10×4 ⅛×2 ¼ ¼	qt3-mag qt3-chl-py(cp) qt3-chl-py(cp) qt3-chl-py qt3-chl-py qt3-chl-py(cp)	0-10-20-30-40-50-60-70-80-90	3.0		173 177	60 90 85	10	96338	.16	.013	.15 2735	.10
	50 Mod		190	60 45+60×4 50+35 20×2 50 15 25	¼ 1/20×5 1/10×2 1/10×2 ¼ ⅓ 1/10	qt3-ser-py qt3-chl-py×5 qt3-carb-py-cp×2 qt3-chl-py×2 qt3(cp) qt3-carb-ser-py(cp) qt3-chl-py	0-10-20-30-40-50-60-70-80-90	3.0		183 187 190	75 98	13	96339	.15	.018		.14
	30 WK		200	5×2 10 10 25+40+60×2 40 40×3	1/10×2 ⅓ ⅛ 1/10×2 ⅛ 1/10×3	qt3-chl-py×2 qt3-chl(cp) qt3-chl-py qt3-chl-py×3 qt3-Mo-py qt3-chl-py×3	0-10-20-30-40-50-60-70-80-90	3.0		194 195 200	60 95 90	17	96340	.16	.011		.12
	35-45 WK		210	25 20×3 15×4+45 30×6 5 40×2	⅛ 1/10×3 ⅛-1/10×5 1/10×6 ⅛ 1/10×2	qt3 qt3-chl-py(cp) qt3-chl-py×5 qt3-chl-py×6 qt3-chl-py qt3-chl-py	0-10-20-30-40-50-60-70-80-90	3.5		204 210	70 90	33	96341	.13	.007		.10
	40 WK		220	60 25×2 15 25-30×6 15	1/10 1/10×2 2" 1/20-1/10×6 4'	qt3-chl-carb-py-cp qt3-chl-py×2 qt3-ser-chl-py qt3-chl-py×6 qt3-carb-chl-py zone	0-10-20-30-40-50-60-70-80-90	4.0		216	35	10	96342	.15	.005		.10

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GIBRALTAR MINES LTD.

HOLE No. 86-29
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 Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	45-30 Str.		230	45-30 40	6' ¼	qt3-carb-chl-py ((cp)) zone qt3-Mo	0 10 20 30 40 50 60 70 80 90	3.0		222 226 227	80 85 98	23	96343	.15	.013	.15 2690	.12
	40 Str		240	40 45 30-45 x 6 45 20 30-60 x 45 40	¼ ⅛ ⅛ x 6 ⅛ ¼ ¼ - ⅛ x 3 1/10	qt3-py qt3-carb-cp qt3 x 6 qt3-chl-py qt3-carb-chl-py qt3 (mag) x 3 qt3-chl-ser-py	0 10 20 30 40 50 60 70 80 90	3.5		233 236 239	95 90 90	10	96344	.13	.007		.12
	45 Str		250	20	1/10	qt3-ser-py x 2 8' highly broken core	0 10 20 30 40 50 60 70 80 90	2.0		244 246 249	70 70 75	0	96345	.13	.009		.08
	50-55 Str		260		10'	highly broken core + ~ 5' lost core	0 10 20 30 40 50 60 70 80 90	2.0		255 260	80 20	3	96346	.11	.006		.08
	45 Str		270	50 5 50 x 10 60 x 2 60 x 2 60 50-60 x 5 50 45 x 3	12" ¼ 1/50 - 1/10 x 10 ¼ x 2 1/10 x 2 ⅓ ½ - ¼ x 5 2" 1/20 x 3	chl-carb-py (cp) qt3-chl-py (cp) qt3-chl-py (cp) x 10 qt3 x 2 qt3-chl-py x 2 qt3-carb-chl-py (cp) qt3-chl-py x 3 qt3-chl-carb-py qt3-chl-py (cp) x 3	0 10 20 30 40 50 60 70 80 90	4.0		266	95	40	96347	.16	.012	.13 2665	.12
	35 Str.		280	30 60 35 x 6 40 x 2 35 x 4 20 x 2 = 25 30	⅛ 1/10 1/20 - 1/10 ⅛ x 2 1/6 - ¼ x 4 1/20 x 3 ¼	qt3-chl-py (cp) qt3-chl-py qt3-chl-py x 6 qt3-ser-py x 2 qt3-chl-ser-py x 4 qt3-chl-py x 3 qt3-chl-cp	0 10 20 30 40 50 60 70 80 90	3.5		276	95 100	57	96348	.17	.012		.10

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GIBRALTAR MINES LTD.

HOLE No. 86-29
SHEET No. 5 of 8

ROCK TYPES & ALTERATION	∠ to Core Foliation	Graphic Log Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	Fracture Angle to Core Axis -Frequency-	Estimated % Pyrite	Remarks (Bottom Depths: Leach Cap / Lim. Zone / Supergene)	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
	35-60 str.	290	15 20+35+30×3 60×3 50 30 45 20 15 25	1/2 1/10×3+1/8×2 1/8+1/10×2 1/4 15" 1/4 10" 1/8 30"	qtz-chl-py qtz-chl-py×5 qtz-chl-py×3 qtz-chl-py-cp qtz-chl-carb-py zone qtz-chl-py-Mo (cp) qtz-chl-carb-py (cp) zone qtz-chl-py qtz-chl-carb-py (cp) zone		3.5		283 287	98	47	96349	.15	.009		.14
	35-50 str.	300	30 40×2 45×2 50 60 30 35×5	1/4 1/8×2 1/10×2 1/2 1½ 3' 1/20-1/10×5	qtz-chl-carb-cp qtz-chl-py×2 qtz-chl-py (cp)×2 qtz-ser-py qtz-py-Mo qtz-chl-carb-py zone qtz-chl-py (cp)×5		4.0		296 297	100 100 75	20	96350	.17	.014		.14
	45-60 str.	310	50 60×2 45 60	4' 3' 1/10×2 1/8 12"	highly broken core chl-carb (py) (cp) zone chl-carb-cp×2 chl-carb-cp chl-carb-cp zone		2.0		301 305 309	80 85	3	96351	.31	.025		20
	45-55 str. sl. cren	320	45-55	10'	qtz-chl-carb-py (cp) zone - zone of broken and lost core		2.5		315 317	50 50	3	96352	.21	[illegible]	.21 [illegible]	.25
	45-60 str.	330	45-60 50 60×2 45×3 90+70	6' 1/8 1/10×2 1/10×3 1/2×2	chl-carb-py (cp) zone chl-cp qtz-chl-carb-cp×2 qtz-chl-py (cp)×2 qtz (cp)×2		2.5	broken vuggy core + incr. in dissem py-cp	323 327	65 85	0	96353	.27	[illegible]		.30
	35-45 str	340	45×2 50 30+20 40 35×2 20	1/10×2 1/10 1/2+1 1" 1/3×2 1/4	qtz-chl-py (cp)×2 qtz-chl-cp qtz-msg-cp×2 qtz-chl-py (cp) qtz-chl-py (cp)×2 chl (cp)		2.0		[illegible]	85	0	96354	.26	[illegible]		.25

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GIBRALTAR MINES LTD.

HOLE No. 86-29
SHEET No. 6 of 8

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Alteration	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	REMARKS	Footage Discr.	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	45-50 Mod		350		30 +40 +60 35 50 50 35 45 45 x3 40 40 x3 +60 45 x3 20	1/20-1/10 x 3 1/10 1/2 1/4 1/10 1/4 1/8 x3 1" 1/10 x4 1/2 x3 1/4	qtz-chl-cp-py x3 qtz (cp) qtz-chl-py-cp chl-carb-cp qtz-chl-cp qtz-chl-cp qtz-chl-py-cp x 3 qtz-py-cp qtz-chl-cp x4 qtz-chl-py-cp x3 qtz-chl-cp	0-90	1.5		343 350	80 85	0	96355	.47	.030		.40
	40 Mod		360		45 60 x2 40 45 x3 60 50 40 x2	1/4 1/10 x2 1/4 1/10 x3 1/4 1" 1/4 x2	qtz-chl-cp-py qtz-chl-cp x2 qtz-carb-cp qtz-chl-py x3 qtz-chl-carb-py (cp) qtz-chl-carb-py-cp qtz-chl-carb-py-cp x2	0-90	2.0	dk carb. rich core	357	80 85	0	96356	.30	.027	.33 2555	.25
	40 Str		370		40 40 40	12" 7' 2'	qtz-chl-carb (mag) py (cp) zone qtz-carb-ser-py (cp) zone qtz-carb-ser-chl-py (cp) zone	0-90	3.0		364 368	85 70	26	96357	.27	.020		.20
	45-60 Str		380		45-60	10'	carb-chl-py (cp) zone	0-90	3.0	py-cp occurs as fine grains along foln planes and within qtz-chl-carb veinlets (concordant)	377	80 76	0	96358	.23	.017		.30
	45-60 Str		390		45-60 ?	9 1/2 12"	qtz-carb-chl-py (cp) zone qtz-pore	0-90	3.0		382 387	72 83	15	96359	.23	.016		.20
	50 Str		400			9 1/2	chl (qtz) carb-py (cp) zone	0-90	3.0		393 397	65 75	3	96360	.22	.013		.20

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GIBRALTAR MINES LTD.

HOLE No. 86-29
SHEET No. 7 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 %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	45-50 Sty		410	45-50	10'	(qt3) chl-carb-py (cp) zone		2.5			401	68	14	96361	.30	.012	.28 2510	.25
	40 Str		420	40 45 45×2 30 10 15+20 40	1/4 12" 1/4 × 2 1/4 1/8 1/8+1/10 10"	qt3-carb-chl-py chl-carb-py-cp zone qt3-carb-chl-py×2 qt3-carb-chl-py qt3(cp) qt3-chl-py-cp×2 chl-carb-py-cp zone		3.0		vuggy core - cp occurs	407 413 420	85 79	3	96362	.23	.017		.18
	50 Str		430	14" 45×2 45 40×4 35+5+40 50 30 40×6 60	1/8+1/10 1/4 1/10×4 1/8+1/10+1/4 14" 1/4 1/20×6 1/4	qg-bx-hem qt3-(chl) cp×2 qt3-chl-py qt3-chl-py×4 qt3-chl-py×3 qt3-ep-ser-py zone qt3-chl-py qt3-chl-py×6 qt3-py (cp)		1.0		as fine grns in vuggy ep slots and stringers	424 428	60 95	50	96363	.22	.023		.15
	45-50 Mod		440	35 35+60×2 30×3 60 30-50×6 45×4	2½" 1/10×3 1/10×3 1/4 1/20-1/10×6 1/10×4	qt3-ser-py qt3-chl-py×3 qt3-chl-py×3 qt3-chl (cp) qt3-chl-py×6 qt3-chl-py×4		4.0			433 441	86 80	18	96364	.11	.009		.10
	40 Mod		450	35 45×2 30 50 30×2 40×10 30+30+40 25+2+3	1/8 1/8×2 1/4 1/2 1/4-1/2 1/20-1/10×10 1/8+2=1/4 1/2+2=1/4	qt3-chl-py (cp) qt3-chl-py×2 qt3-chl-py qt3-chl qt3-chl-py×2 qt3-chl-py×10 qt3-chl-py×3 qt3-chl-py×3		5.5			447	83	36	96365	.12	.004	.18 2425	.08
	40-45 Mod		460	18+40+2.5 45 30 35 35+40×10 60 20×2	1/2+2=1" 1/2 1/2 24" 1/20-1/10×10 1" 1/4×2	qt3-chl-carb-py×3 qt3-chl-py qt3-py qt3-chl-py (ser) zone qt3-chl-py×10 qt3-py qt3-chl-py×2		6.0			454 459	86 66	15	96366	.07	.003		.08

GRID ______ GIBRALTAR MINES LTD. HOLE No. 86-29

SHEET No. 8 of 8

ROCK TYPES & ALTERATION	∠ to Core Foliation	Graphic Log Footage	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	Sample Number	% Cu	% Mo		Estimated Grade
	45 Str.	470	35 35 20 + 60 35 + 40 40 x 5	1/3 1/4 1/3 + 1/2 1/4 + 1/3 1/20 - 1/10 x 5	qtz-ser-py qtz-py qtz-py x 2 qtz-chl-py qtz-chl-py x 5		4.0		465 469	95 55	20	96367	.13	.009		.08
From 460-501 the rx. is strongly sheared and variously alt'd by ep, qtz, chl and carb. and has lost its plutonic appearance	45 str	480	45 50 60 45 ?	12" 10" 2" 3½' 14"	qtz-chl-py zone qtz-carb-chl-py zone qtz-carb-cp qtz-chl-carb-py ((cp)) zone qq-bx		5.0		472 477 480	73 70 86	15	96368	.16	.011		.12
	45 Str	490	45 30 x 4 10 40 + 50 5 + 30 + 45 30 - 45 x 8	3' 1/4 + 1/2 + 1/8 1" 1 + 2" 1/8 x 3 1/20 - 1/10 x 8	qtz-chl-ep-py ((cp)) zone qtz-chl-py ((cp)) x 3 qtz-chl-carb-py qtz x 2 qtz-chl-py x 3 qtz-chl-py x 8		6.0		486	84	30	96369	.09	.017		.10
501	45 Str	500	45 + 5 20 + 10 + 5 x 2 15 x 2 20 - 25 x 6 15 x 3 50	1/8 x 2 1/8 - 1/4 x 4 1/8 + 1/4 1/10 - 1/8 x 5 1/10 x 3 1/2	qtz-chl-py x 2 qtz-chl-py x 4 qtz-chl-py x 2 qtz-chl-py x 5 qtz-chl-py x 3 qtz		6.5		494 501	90 60	26	96370	.08	.010	.11 .020	.10

J.O.B

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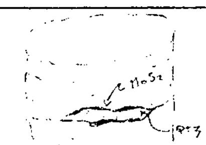
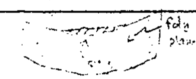
GIBRALTAR MINES LTD.

HOLE No. 86-30
SHEET No. 1 of 9

LOCATION: SAWMILL ZONE
DATE COLLARED: 27-Aug-86
DATE COMPLETED: 27-Aug-86
BEARING: –
LENGTH: 497'
DIP: -90°
LATITUDE: ~32,988.00'
DEPARTURE: ~49,567.00'
ELEVATION: ~2,972.00'
CORE SIZE: N.Q.W
SCALE OF LOG: 1" = 10'
REMARKS:
LOGGED BY: G.D.B.
DATE: SEPT. 12, 1986

BOTTOM DEPTHS: LEACH CAP 0; LIM. ZONE 0; SUPERGENE *0

ROCK TYPES & ALTERATION	∠ to Core Foliation	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 %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
CASING TO 30'			30							* a strong cc zone occurs nr. bottom of hole @ 487' but no cc seen above this level.	30							
QUARTZ PORPHYRY - a pale grey to white rx with ovoid qtz pheno's 1/20 - 1/4" dia in a sl. foliated	50 wk		40		30 + 40 20 70 10 x 2	1/10 + 1/2 1/10 12" 1/10 + 1/8	qtz-(Mo) x 2 qtz-Mo-cp qtz((cp)) qtz-(Mo)(cp) x 2		0.5	most of the veins in the Q.P. are lens-like or have indistinct borders :	37	95	40	11226	.09	.006		.12
white to pale green quartzo-feldspathic matrix. Qtz pheno's comprise about 40% of the rock. - contains fine dissem. py + cp - total ≈ .5% : These appear to be	50 wk		50		80 5 + 80 35 + 8 40 x 2 45 x 2 35 30	1/8 1/8 x 2 1/8 x 2 1/10 + 1/2 1/8 x 2 1/2 6"	qtz-py qtz-py x 2 qtz-py-(cp)(Mo) x 2 qtz-py x 2 qtz-py x 2 qtz-py-Mo qtz-ser-py ((cp))		1.5		47	95	47	11227	[illegible]	.004		.10
true dissem's and not along fol'n planes. (30 - 405') ∴ MoS2 is common	45 Mod		60		25 + 30 x 4 40 35 x 2 50 + 40 x 2 20 + 70	1/8 + hlor 3 1/10 1/8 + 1/10 1/8 + 1/10 x 2 1/4 x 2	qtz-py x 5 qtz-Mo-py qtz-py(cp) x 2 qtz-py(cp) + qtz-py(Mo) qtz-py((Mo)) x 2		1.5	 - poss. [illegible] the [illegible] in a plastic state. ?	57	98	57	11228	.08	.004	.08 2915	.08
throughout the hole but only with qtz veins not as dissem's	50 wk		70		40 x 3 + 50 60 + 40 50 x 3 80 + 60 50 x 3	1/10 x 4 1/2 + 1/4 1/10 x 3 1/4 x 2 1/20 x 2	qtz-py(Mo) qtz-py(Mo) qtz-py x 3 qtz-py-Mo-cp x 2 qtz-py x 3		1.0		67	98	83	11229	.06	[illegible]		.08

GRID ____ **GIBRALTAR MINES LTD.** HOLE No. 86-30 SHEET No. 2 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 O D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
at ~ 290' to 375' The qt3- Porp. becomes a pale green and in sections develops a pea green coloration - sericite alt'n ??	60 Wk	80	50x2 30 50 60±5 5 60 5	1/10 x 2 1/4 1/4" 1/8 1/4 x 2 1" 1/10 1/4	qt3- Mo x 2 qt3- ser-py qq (bx) qt3-ser-py qt3-py (cp) (Mo) x 2 qt3-ser-py-cp qt3-py qt3-py	0 10 20 30 40 50 60 70 80 90	1.0		74	90 98	87	11230	.07	.008		.10
	50 Mod	90	45 60 x 4 50 x 5 45 x 3 70 15	1/8 1/20 x 4 1/20 x 5 1/10 x 3 2/5 1/2	qt3-ser-py qt3-py (Mo) qt3-py x 5 qt3-py (Mo) x 3 qt3 - cp - Mo qt2- (cp) (Mo)	0 10 20 30 40 50 60 70 80 90	1.0		84	95	50	11231	.09	.006		.14
	60 Mod	100	20 40-50 x 4 5 45 x 2 70 45	1/5 1/20-1/10 x 4 12" 1/10 x 2 1/5 1/8	qt2-cp-ser qt3-py (Mo) x 4 qq (bx) qt3-cp x 2 qt3-ser-py-cp qt2-ser (Mo)	0 10 20 30 40 50 60 70 80 90	0.5		91 95	95 95	13	11232	.12	.004		.12
	45 Mod	110	60 x 3 80 45 x 2 + 50 50 40 x 5 35 x 2	1/10 1/10 1/6 x 2 + 1/4 1/10 1/20-hle x 5 1/10 x 2	qt3-py (cp) qt3- Mo qt3-chl-py (cp) (Mo) x 3 qt3-cp qt3- py (cp) (Mo) x 5 qt2-cp x 2	0 10 20 30 40 50 60 70 80 90	0.5		106	95 98	60	11233	.09	.008	.09 2870	.15
	50 Mod	120	60-5 20 5 45	1" 3/4 1/4 1/2	qt3- Mo chl - qt3 - py (cp) qt2-Mo-qq qt3-Mo	0 10 20 30 40 50 60 70 80 90	<.5	Poss 1% MoS_2	114 118	95	30	11234	.17	.078		.10
	40 Str	130	45 35 45	1/8 1/4 6" 2' 2 1/2	qt3 (Mo) (cp) qt3-chl - py - cp chl-qt3 (py) (cp) zone qq - bx qt3-chl-carb-py (cp) zone	0 10 20 30 40 50 60 70 80 90	1.0		124 128	90 90	17	11235	.24	.015		.12

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GIBRALTAR MINES LTD.

HOLE No. 86-30
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 O D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	40 Mod	140	60 80 60 30+60 10+5 40+2 5 5+50	4" 2' 6" ⅛×2 ¼+⅛ 1/10×2 ½ 1/10×2	qt3-carb-carb-py-cp zone qt3-carb-chl-py-cp zone qt3-ser-py (cp) zone qt3-chl-py-cp (Mo)×2 qt3-Mo×2 qt3-chl-py (cp)×2 qt3-cp qt3-cp-py	0 10 20 30 40 50 60 70 80 90	2.0	high chl zone - poss wall re inclusion	134 139	90 95	17	11236	.27	.009		.18
	40 wx	150	5 30+45×2 45 30 15×45×2	1/10 1/10×3 ¼ ⅛ 10" 1/10×3	qt3-cp-py qt3-py-cpx2 qt3-chl-cp (Mo) qt3 (cp) qt3 qt3-chl-py-cp×3	0 10 20 30 40 50 60 70 80 90	1.0		147 149	95 100	30	11237	.14	.008	.19 2825	.14
small fault	50 wx	160	50 35 35 30 30 10?	2" ½ 1/10 1/16 ⅛ 4'	qtz qt3-chl-carb-py qt3-py qt3-chl-cp qt3-chl-cp qq	0 10 20 30 40 50 60 70 80 90	1.0		157 161	85 60	23	11238	.16	.008		.12
	45 wx	170	? 60+5 70 60 55×2 20 45+50+50	12" 1/10×2 ¼ ½ ⅛×2 ¼ 1/10-1/10×2	qt3 (cp) qt3-Mo×2 qt3-cp qt3-cp qt3-cpx2 qt3-py qt3-py (cp)×3	0 10 20 30 40 50 60 70 80 90	0.5		107	70	30	11239	.21	.026		.20
	45 Mod	180	70+45 60+70+80 30×2 60×4 60×2 70 80×3 5 45+2+50 10	1/10-1/10 1/10×3 ¼+⅛ 1/10-1/20×4 1/10×2 ⅛ 1/10-1/10×3 ¼ 1/10+1/10×2 ¼	qt3-py-cp (Mo)×2 qt3-Mo-cp×3 qt3-cp-Mo qt3-Mo×4 qt3 (cp) (Mo)×2 qt3-Mo qt3-py-cp qt3-Mo qt3-Mo-cp qt3-Mo (cp)	0 10 20 30 40 50 60 70 80 90	0.5		176	98	50	11240	.18	.020		.15
	40 Mod	190	5 60 60 45×2 40	⅛ ⅛ ½ ¼ 1/10	qt3-Mo-py-cp qt3-Mo qt3-cp-cp qt3-py (cp) qt3-Mo (py)	0 10 20 30 40 50 60 70 80 90	0.5		186.6	98	60	11241	.12	.006		.14

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GIBRALTAR MINES LTD.

HOLE No. 86-30
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 / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	50 Mod	200	5 ×2 30 65 50×10 45 30×2 60 50×3	⅛×⅒ ¼ 2" hle-½×10 ¼ ½×2 2" ½-½×3	qt3-Mo-cp ×3 qt3-py (Mo) qt3-ep-chl-py-cp qt3-(Mo)(py)(ep) ×10 qt3-carb-py-cp qt3-py×2 qt3-ser(Mo) qt3-Mo(cp)(py)×3		0.5	Note: most of the veins are concordant with fols - those that are not are steep @ ∿ 15°-5° and of rich in Mo-cp	197	98	53	11242	.19	.010	.17 2780	.12
									201							
	60 Mod	210	60 60 60×3 50 60×3 60×2 30×2	½ ¼ ½×3 ½ ½×3 ½×2 ½×2	qt3-cp qt3-ser-cp qt3-(cp)(Mo) ×3 qt3-ser-py qt3 (cp)(Mo) ×3 qt3 (cp)(Mo)×2 qt3-(cp)×2		0.5		207	98	70	11243	.11	.006		.10
	50 Mod	220	45 60 60-70×4 45 60×3 60×2	⅛ ¼ ½×4 ⅒ ½×3 ½×2	qt3-Mo qt3-py qt3-py (Mo) ×4 qt3-cp (Mo) qt3 (py)((Mo)) ×3 qt3 (Mo)(cp)×2		1.0		217	98	43	11244	.11	.008		.08
									222	90						
	50 WK	230	60×12 45+50×2 80 60 45	hle-½×12 ½×3 ⅛ ⅒ ½	qt3 (py)((Mo)) ×12 qt3-Mo×3 qt3-chl-py-cp qt3-ser-py-cp chl-py-cp		0.5		226	85	17	11245	.10	.008		.10
									234	85						
	45 WK	240	45-60×7 45×2 50 45×2	½×7 ½×2 ⅒ hle-½×2	qt3-Mo-cp-py ×7 qt3-Mo-py ×2 qt3-cp-Mo qt3-(Mo)(cp)×2		0.5			95	80	11246	.08	.002	.11 2725	.10
									244	95						
	45 WK	250	60 60 60×3 50 60 45+60×2 50×3	⅒ ⅒ hle×3 ⅛ ⅒ ⅒×3 ⅒×3	qt3-Mo(cp) qt3-cp qt3-py-cp-Mo ×3 qt3(cp)(py) qt3-Mo qt3-Mo-cp qt3-cp (Mo)×3		0.5			95	77	11247	.09	.013		.12

GRID ____

GIBRALTAR MINES LTD.

HOLE No. 86-30
SHEET No. 5 of 9

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 / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	60 WK		260		30+50 60 30 10 10+35+45 50±2 = 35 35±2	1/4×2 1/8 1/4 1/8 1/20×3 1/20±2 1/4 12" 1/16×2	qt3-cp ×2 qt3-Mo qt3-cp (almost massive - cp) qt3-ser (cp) qt3-py-cp qt3-cp×2 qt3-cp ser zone Mo×2	0 10 20 30 40 50 60 70 80 90	0.5		254	98	60	11248	.20	.010		.20
	50 WK		270		? 62 50 80 60±3	10" hle 1/4 1" 1/10×3	qt3 Mo qt3-py-cp qt3-chl qt3-py ((Mo)) ×3	0 10 20 30 40 50 60 70 80 90	1.0		262 267	95 98	23	11249	.09	.008		.08
	50 WK		280		50±3 35×4 40±2 80±2±20 45±60	1/10×3 1/20×4 1/10×2 1/20×3 1/10+1/8	qt3-cp×3 qt3 (Mo)×4 qt3-(cp)(Mo)×2 qt3-py (cp)((Mo))×3 qt3-Mo×2	0 10 20 30 40 50 60 70 80 90	1.0		273	95	47	11250	.17	.011		.12
	60 WK		290		15×4 60×5 50 60±3	1/20×4 1/20×5 1/10 1/20×3	qt3-py×4 qt3-py×5 qt3-py qt3-py×3	0 10 20 30 40 50 60 70 80 90	1.0		281 287	95	67	11251	.08	.003	.13 2690	.05
	60 WK		300		5+60 60 60±2 60 45	1/8+1/4 1/20 1/5×2 1/8 1/10	qt3-Mo-cp-py qt3-carb-cp carb-chl-cp-py×2 qt3-carb-cp qt3-Mo	0 10 20 30 40 50 60 70 80 90	0.5		294	90 98	33	11252	.11	.010		.08
	60 WK		310		25 45 60 45+30×3 50 70×3	1/5 1/10 1/8 1/10+1/20×3 hle 1/10+1/20×3	qt3-py qt2-py qt3-py qt3-py×4 cp-Mo qt2-py×3	0 10 20 30 40 50 60 70 80 90	1.0		301 307 310	95 95	43	11253	.07	.004		.05

GRID _____ **GIBRALTAR MINES LTD.** HOLE No. 86-30 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
	70 wk	320	60 x 5 50 60+50x4 45 60 x 6	hle-½ox5 ½o ½o-½ox4+½o ⅛ ½o-hlex4	qt3-py-cp-Mo x 5 qt3-py(cp) qt3-py-cp(Mo) x 5 qt3-cp Mo qt3-py-cp(Mo) x 6	0 10 20 30 40 50 60 70 80 90	1.0		317	90	40	11254	.15	.014		14
	60 wk	330	60x3+5 70 50 60-70 x 4 50+60+70 80+70	½o x 4 ⅛ ⅛ ½ox4 ½+½ox2 ½ox2	qt3-py-cp (Mo)x 4 qt3-Py-cp qt3-py(Mo) qt3-Mo x 4 qt3-py-cp x 3 qt3-Mo-cp x 2	0 10 20 30 40 50 60 70 80 90	1.5		324 333	90 98	60	11255	.13	.018	.11 2645	.12
	60 wk	340	70+50 60 60+5 70 70 x 10 70 70x3 70	¼+⅛ ½ hlex3 ½ ½ox10 hle ½ox3 ½	qt3-Mo x2 qt2-ser-py Mox3 qt3-carb-cp qt2-py x 10 Mo qt3-py x 3 qt2-py(Mo)x	0 10 20 30 40 50 60 70 80 90	2.0		333	98	60	11256	.11	.017		.10
	70 Mod	350	70 70 70-80 70	30" ½" 3" 6'	py-cp(Mo) in pea green sheared rx qt3-ser-py-cp(Mo) qt3-chl-carb-py shear zone py-cp(Mo) in pea green rx	0 10 20 30 40 50 60 70 80 90	5.0	This is an aphanitic pea green sheared rx with abundant sulfides along foln planes.	343 350	95	37	11257	.27	.025		.30
	60 Mod	360	50 70x3 60 60 80 60x3 60 80 70	¼ ½ox3 ½o 1" ⅛ ½o-½ox3 ⅛ ⅛ ½o	qt3-cp qt3-py x 3 qt3-Mo qt3-cp qt3-cp qt3-py(Mo) qt3-Mo qt3-cp-Mo qtz-cp-Mo	0 10 20 30 40 50 60 70 80 90	1.5		357	90	53	11258	.15	.016		.18
	70 wk	370	70x10 60x2 70 c 70 70x3 70x8 60 60x3	hle x 10 ½o + ½5 ½ ⅛ 1/4" ½ox3 hle-½ox6 ⅛ ⅛+½o	qt3-py x 10 qt3-Mo + qt3-Mo-cp qt3-py-cp(Mo) qt3-cp-cp cp-py in aphanitic rx green zone qt3-Mox3 qt3-py-Mo x 6 qt3-Py qtz-py x 2	0 10 20 30 40 50 60 70 80 90	1.5		365 370	98 95	57	11259	.15	.021		.20

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GIBRALTAR MINES LTD.

HOLE No. 86-30
SHEET No. 7 of 9

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
	80 Mod		380		60×3 70 ? ? 80	½₀×3 30" 4" 6" 15"	qt₃-py-cp×3 py-cp-Mo in pca green aphanitic rx. qt₃-py(Mo) qt₃-(chl)(cp) qt₃-chl-carb zone	0 10 20 30 40 50 60 70 80 90	2.0	377	80	47	11260	.11	.013	.16 2600	.12
	70 Mod		390		80×4 80 ? 80 80 90 5	½₀×4 ½ 2' 2" 9" 1'	qt₃-py-cp×4 qt₃ broken qt₃ ((cp))(Mo)(py) zone qt₃ qt₃ qt₃	0 10 20 30 40 50 60 70 80 90	1.0	387	90	27	11261	.06	.007		.08
	60 WK		400		50 60×2 60 70×3	½₀ ½₀-hle×2 ½₀ hle×3	qt₃-Mo-cp qt₃-py-Mo×2 qt₃-py Mo×3	0 10 20 30 40 50 60 70 80 90	0.5	394 398½ 400	95 80 50	13	11262	.06	.006		.05
Contact is a zone of broken and lost core - poss. fault 405	?							0 10 20 30 40 50 60 70 80 90	0.5	405	30	13	11263	.09	.007		.12
DARK GREEN FINE-MED. GRN META ANDESITE	50-70		410		50-70	8'	banded qt₃-carb-chl-py((cp)) zone		10.0		95						
(405 - 497) ~40% chl. 15% ep (as clots + stringers) 10-15% qt₃ 30-35% plag.	70 Mod		420		80×3 80 60 60×2 60	1 + ¾ + ⅓ ⅓ ¼ ¼×2 3"	qt₃×2 qt₃ py(chl) qt₃-chl-carb-py(cp)×2 qt₃-chl-carb-py	0 10 20 30 40 50 60 70 80 90	2.0	412 417	90	50	11264	.07	.009	.07 2555	.10
avg. grn. size ~ ½₀" dia qt₃ not visible without mag. - mod-str. sheared - in places grades to a fine grn diorite			430		60×2 5+60×2 80+60	½₀×2 ½₀×3 ½₀×2	qt₃-py×2 qt₃-chl-py×3 qt₃-py×2	0 10 20 30 40 50 60 70 80 90	1.5	427	98	70	11265	.07	.004		.08

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GIBRALTAR MINES LTD.

HOLE No. 86-30
SHEET No. 8 of 9

ROCK TYPES & ALTERATION			∠ to Core Foliation	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	Sample Number	% Cu	% Mo		Estimated Grade
			80 Mod		440		60+50 50 50 45+60	1/10x2 1/4 1/8 1/10x2	chl-pyx2 qtz-chl-py chl-py chl-pyx2	0 10 20 30 40 50 60 70 80 90	2.0		437	100	60	11266	.09	.003		.08
			80 Mod		450		80 5 80	1/3 1/3 1/4	qtz-carb-py-cp chl-carb-((cp)) py (chl-carb)	0 10 20 30 40 50 60 70 80 90	1.5		447	95	40	11267	.14	.005		.05
			80 Str		460		60x2 70 80 70	1/4x2 1/10 1/20 1/10	chl-pyx2 chl-py chl-py chl-py	0 10 20 30 40 50 60 70 80 90	1.0		457	95	63	11268	.06	.004		.05
			80 Str		470		50 80x4 70 70 60	1/3 1/20x4 2" 1/4 1/20	qtz-chl-py (cp) chl-carb-py((cp))x4 qtz-(cp) chl-py chl-py	0 10 20 30 40 50 60 70 80 90	2.5		467	90	40	11269	.20	.005	.10 2510	.12
			70 Mod		480		70 80 70x2	1/3 1/5 1/20x2	qtz-py qtz-py qtz-chl-pyx2	0 10 20 30 40 50 60 70 80 90	1.0		477	95	33	11270	.10	.003		.05
					490		70 60 30 50	1/10 1/2 6" 1/8	chl-ep-py qtz (cp) cc qtz-cp-cc* qtz-chl-py (cp)	0 10 20 30 40 50 60 70 80 90	1.0	*at least 1" solid cp.	487	90	47	11271	.49	.003		.40

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GIBRALTAR MINES LTD.

HOLE No. 86-30
SHEET No. 9 of 9

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 / SUPERGENE / REMARKS	Footage Block	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	70 Mod.			90	1/4		qtz-FY-CP	0 10 20 30 40 50 60 70 80 90	1.0			95						
EOH 497'				70×2	1/8×2		FY×2				497			11272	.07	.003		.10
				50×2	1/16×2		qtz-chl-FY×2											
B.D.H.								0 10 20 30 40 50 60 70 80 90									.22	
								0 10 20 30 40 50 60 70 80 90									2165	
								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										

GIBRALTAR MINES LTD.

GRID ______

HOLE No. 86-31
SHEET No. 1 of 8

LOCATION: Sawmill Zone	BEARING: –	LATITUDE: ~ 33,438 N	CORE SIZE: N.Q.W.
DATE COLLARED: 28-Aug-86	LENGTH: 507'	DEPARTURE: ~ 49,118 E	SCALE OF LOG: 1" = 10'
DATE COMPLETED: 28-Aug-86	DIP: -90°	ELEVATION: ~3001'	REMARKS:
LOGGED BY: G.D.B.	DATE: Oct 29, 1986		

BOTTOM DEPTHS	
LEACH CAP	–
LIM. ZONE	86
SUPERGENE	86
REMARKS	

ROCK TYPES & ALTERATION	∠ to Core Foliation	Graphic Log Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	Estimated % Pyrite	Footage Blocks	Estimated Core Recovery %	RQD	Sample Number	% Cu	% Mo		Estimated Grade
65'							65							
FINE GRN DIORITE ?	50 Mod	70	30 + 60 + 35 45 x 2	1/10 x 3 1/20 x 2	chl-py-lim chl-py x 2	0.5		70		95901	.32 .050x	.006		.05
(65' - 91') may grade to a quartz diorite but qtz is gen. obvious without magnif. Avg. grn. size ~1/20" - equigranular	50 Mod	80	60 45 60 45	1/10 1/8 1/10 1/8	chl-py qtz-chl-py qtz-chl-py qtz-chl-py-cc	1.0	73 77	90 75	18	95902	.63 .020x	.028		.05
gen. foliated - 25% chl 50% saus plag. 10-20% ep. (clots) 5-15% qtz - poss. a border phase of the G.D. pluton which it resembles	60 Mod	90	60 30 + 45 60 + 30	10" 1/10 1/10 x 2 1/10 x 2	ep(py) zone qtz-chl-py (cc) qtz-chl-py qtz-chl-py x 2	1.0	81 86	85	37	95903	[illegible] .020x	.006	.46 2915	.10
except for lower qtz content. COARSE GRN DIORITE (91'-112') This is unlike anything seen here to date. Chl's are euhedral black	60 wk (1/6" dia)	100	60 40 50 35	1/8 1" 1/4 2"	qtz-carb-py qtz qtz qtz	<0.5	96	95 90	65	95904	.07 .[illegible]	.002		.05
book hb. (10%) scattered in a swirled matrix of chl. (60%) and qtz-spar (15%) which appears to be sheared and granulated to a fine grn. size, in which the hb occurs as phenocrysts. Also as pheno's are anhedral	60 wk	110	70	3"	qtz-tour	<0.5	104	90	41	95905	.09 .01x	.006		.05

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-31
SHEET No. 2 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 / SUPERGENE / REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
grns of sauss. plag up to ⅛" dia (15%) 112																		
FINE GRN. DIORITE (112'-507') same as 61-91'	70 Mod		120		5 60 5? 60	¼ 2" 1" 1/10 x 3	qtz-py(cp) cp-qtz-py(cp) cp-carb-cp qtz-chl-py x 2		1.0		114	95	67	95906	.12	.006		.10
- except this zone contains numerous ruggy ep. clots and stringers which often contain py-cp; this type of mineralization was first seen at the bottom of the ore zone intersected by 79-17 - is	70 Mod		130		80 x 2 25?	4" x 2 2'	qtz-carb-ep x 2 qq-bx		<0.5		123 127	75	36	95907	.12	.009	19 2870	.05
This further evidence of the poss. fold over turn - that is, the py zone may underlie the rx intersected in this hole.	70 WK		140		35 60 45	1/10 2" 1"	qtz-chl-py ep ep		<0.5		135	90	44	95908	.10	.002		.05
	60 WK		150		60 10 70	1/10 ¼ 3"	qtz-py ep-qtz-py qtz		0.5		144	70	60	95909	.17	.006		.65
	50 WK		160		45 20 50+70 30 35 30-60 x 4 45	1/10 1/3+¼ 1/10 6" ½-1 x 4 ⅓	qtz-chl-py (cp) qtz ((cp)) ep-qtz-py qtz qtz-py-cp x 4 qtz-Mo		1.0		155	90	68	95910	.17	.010		.12
	60 Mod		170		5T 60 30+40+45 5	½ x 2 1" + 3 ½ x 2 1/10	qtz-chl-carb + qtz-Mo qtz-Mo x 3 qtz-carb-chl-cp		0.5		165	100 76	50	95911	.16	.032		.10

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 86-31
SHEET No. 3 of 8

ROCK TYPES & ALTERATION	∠ to Core Foliation	Footage	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 Diocs.	Estimated Core Recovery %	R O D	Sample Number	% Cu	% Mo		Estimated Grade
	60 WK	180	35 45 45-50	1/8 1/10 1/20	qtz-py-cp qtz-chl-py cp-chl-py x2		0.5		174	94	48	95912	.17	.006	.15 2825	.08
	70 WK	190	30 20 60 60 5 x2 50	2" 1/8 1/20 1/20 1/4 x2 1/10	ep-chl qtz-chl-cp chl-cp ep-cp qtz-cp + qtz(cp) ep-py		0.5		185	98	80	95913	.14	.014		.12
grades to a chl-ep bx - ie, angular ep clots up to ½" in a largely chloritic matrix	ND	200	60 15 60 x2 50 50 60x2 45	1/20 1/4 1/10 x2 hle 1/4 1/6 x2 1/10	carb-py-cp qtz-py-cp qtz-chl-py x2 qtz-cp qtz-py qtz(cp) x2 qtz-cp		1.0		195	93	68	95914	.17	.020		.14
	ND	210	5 45 50 30 50 45 20	1" 1/20 1/3 1/8 1/3 + 1/6 1/20 2"	qtz-cp qtz-cp qtz-cp(Mo) chl-carb-py(cp) qtz x2 qtz-cp qtz-chl-carb-py		1.0		204	100	78	95915	.16	.026		.12
	ND	220	25 x2 50 x2 45	½ + ½ 1/3 x2 1/10 3½	qtz-py x2 qtz-py x2 qtz-py chl-qtz-carb zone		1.0		214 220	96	64	95916	.17	.028	.17 2790	.05
	ND	230	60 20 20 60 45 25	2" 1/4 1/4 1/8 1/8 1/10	qtz carb-py qtz(cp) qtz-(cp) qtz(cp) qtz-chl-cp		0.5		227	71	42	95917	.18	[illegible]		.12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-31
SHEET No. 4 of 8

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	ND		240		45 60 35 + 5 45	1/20 1/10 1/4 x 2 1/8	chl-cp x 2 qt3-cp qt3 x 2 qt3 chl-cp	0 10 20 30 40 50 60 70 80 90	0.5	237	95	53	95918	.14	.006		.10
dk chl-carb rich zone	ND		250		30+40 20 60 + 50	1/8 x 2 1/8 1/4 x 2	qt3-cp chl-carb carb x 2	0 10 20 30 40 50 60 70 80 90	<0.5	245	91	43	95919	.17	.010		.05
	ND		260		40 30-50 x 6 40 10 70+45 50	1" 1/8 x 6 1/2 1/2 1/4 x 2 1/4	qt3 chl-py qt3 (cp) x 6 qt3-py (cp) qt3 chl-py (cp) qt3 x 2 qt3 (cp)	0 10 20 30 40 50 60 70 80 90	0.5	255 260	88 80	18	95920	.15	.014		.08
	ND		270		60+45 x 2 60 5 50 25	1/20 x 3 1/3 1/2 1/4 1/8	qt3 (cp) x 3 qt3 ((cp)) qt3 carb qt3 (cp) qt3 chl-py	0 10 20 30 40 50 60 70 80 90	<0.5	267	86	42	95921	.11	.008	.15 2735	.10
	Nb		280		30+45 70+35 5 20+70 x 2	1/10 1/8 x 2 1/4 1/3 x 3	qt3 chl-py x 2 qt3 x 2 qq-hem qt3 x 3	0 10 20 30 40 50 60 70 80 90	<0.5	277	88	13	95922	.08	.014		.05
	ND		290		60+50 60 x 3 45 5	1/20 x 2 1/10 x 3 1/10 1/8	qt3 chl-py x 2 qt3 cp x 3 qt3-cp carb-py	0 10 20 30 40 50 60 70 80 90	0.5	287	99	80	95923	.07	.006		.08

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-31
SHEET No. 5 of 8

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	ND.	300	50	1/16	qt3-chl-carb-cp	0 10 20 30 40 50 60 70 80 90	1.0	297	100	68	95924	.05	.006		.05
			35	1½	qt3-Mo										
			45	1/8	qt3										
			50	1/4	qt3										
			45x3	1/10x3	qt3-chl-py x3										
			5	1/8	qt3-carb-py										
	ND	310	45x2	1/20x2	qt3-chl-py x2	0 10 20 30 40 50 60 70 80 90	0.5	304	90	43	95925	.13	.006	.09	.08
			45x2	1/20x2	qt3-chl-cp x2									2690	
			35	1/20	qt3-cp			307	90						
			60x3	1/20x3	qt3-chl-py x3										
	60 WK	320	56	1/3	qt3	0 10 20 30 40 50 60 70 80 90	0.5	317	82	50	95926	.08	.004		.05
			50	1/3	qt3-py										
			90	1/8	qt3-tour.				100						
			50	1/3	qt3			317							
			60	1/10	qt3-cp										
			45	1/4	qt3-chl-py										
	60 WK	330	60	1/10	qt3-py	0 10 20 30 40 50 60 70 80 90	0.5	325	90	40	95927	.04	.002		.05
			90	1"	qt3										
			50	1/10	qt3-chl-py				95						
			70x3	1/10x3	qt3-py x2			330							
	60 WK	340	30	1/10	qt3-chl-py	0 10 20 30 40 50 60 70 80 90	1.0	334	70	10	95928	.04	.002		.05
			20	1/8	qt3-chl-py										
			50	1/2	qt3				70						
			35	1/8	qt3-chl-py	highly broken zone		338							
	60 WK-ST.	350	10	1"	qt3	0 10 20 30 40 50 60 70 80 90	2.0	342	60	16	95929	.07	.008		
			10	1/2	qt3-carb-py										
			60	2'	qt3-chl-carb-py zone			345	80						
			30	1"	qt3-carb-ser-chl-py										
			50	2'	0			349	80						

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-31
SHEET No. 6 of 8

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
	ND	360	50 5 60×3	10" 1/8 1/10 1/20×3	qt3-porp. qt3 hem qt3-chl-py×3	0 10 20 30 40 50 60 70 80 90	<0.5	353 357	100 95	38	95930	.06	.006	.06 2695	.05
	60 WK	370	5+10 15+35 30 60 5	1/3×2 1/4×2 1/4 2' 1/4	qt3-carb-py ×2 qt3-carb-py qt3-carb-chl-py chl-carb-py carb-py	0 10 20 30 40 50 60 70 80 90	1.0	367	95	33	95931	.07	.029		.05
	60 WK	380	50 45+40 20 60×3 60 5	1/3 1/10×2 1/8 1/10×3 1/4 1/10	qt3 qt3-py qt3-carb-chl-py (cp) qt3-py×3 qt3 (Mo) hem-gg	0 10 20 30 40 50 60 70 80 90	1.0	377	98	33	95932	.05	.013		.05
	60 WK	390	40 35 45 50×2 90	1/8 1/8 1/3 1/2×2 1/4	qt3-cp qt3 qt3-carb-py qt3×2 qt3	0 10 20 30 40 50 60 70 80 90	1.0	383 387	90 95	27	95933	.14	.019		.05
	ND	400	80 70×3	2" 1/10×3	qt3-(cp)((Mo)) qt3-chl-py×3	0 10 20 30 40 50 60 70 80 90	1.0	396	90	37	95934	.06	.012	.08 2600	.05
	ND	410	45 60 40+60 5	2" 1/4 1/3+1/2 1/4	qt3 qt3 qt3-carb-py×2 qt3-carb-py	0 10 20 30 40 50 60 70 80 90		406	98	40	95935	.08	.019		.05

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-31
SHEET No. 7 of 8

BOTTOM DEPTHS
LEACH CAP
LIM. ZONE
SUPERGENE
REMARKS

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	Footage Diesel	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	80 WK				5	1/2	qt3-carb-py		0.5	415	98	43	95936	.04	.005		.05
					5	1/4	qt3-chl-py										
					60	1/20	py										
					60	14"	qt3-carb (py)										
			420		50	1 1/2	qt3-carb										
	70 Mod				80	1"x2	qt3-(Mo)		1.5	425	95	37	95937	.11	.010		.05
					80	9"	chl-ep-bx-py										
					45	1/10 x2	qt3-chl-py x2										
			430														
	70 Mod				90	1/2	qt3 ((Mo))		1.0	435	100	33	95938	.12	.015		.05
					70 x2	1/3 + 1/10	qt3 (cp)										
					70	7"	chl-carb-py										
					45	1/10	qt3-chl-py										
			440														
	70 WK				80	1/20	chl-py		0.5	445	95	47	95939	.12	.024	.09 2555	.05
					30	1/20	chl-py										
					60	1/8	qt3 (Mo)										
					50	1/4	qt3										
			450		90	1/4	qt3										
	80 WK				80	1/2	qt3-py		1.0	457	90	23	95940	.12	.027		.05
						2 1/2	qq-qt3 (Mo)-bx										
			460		80	1"	qt3-ser-py										
	80 WK				90	1/10	qt3-py		2.5	467	95	23	95941	.08	.008		.08
					45	1/10	qt3-chl-py										
					80	1/10	qt3-py										
					50	1/8	qt3-ser-py										
					45	1/4	qt3-chl-py										
					30	1/8	qt3-chl-py										
			470		35	1/4	qt3-chl-py										

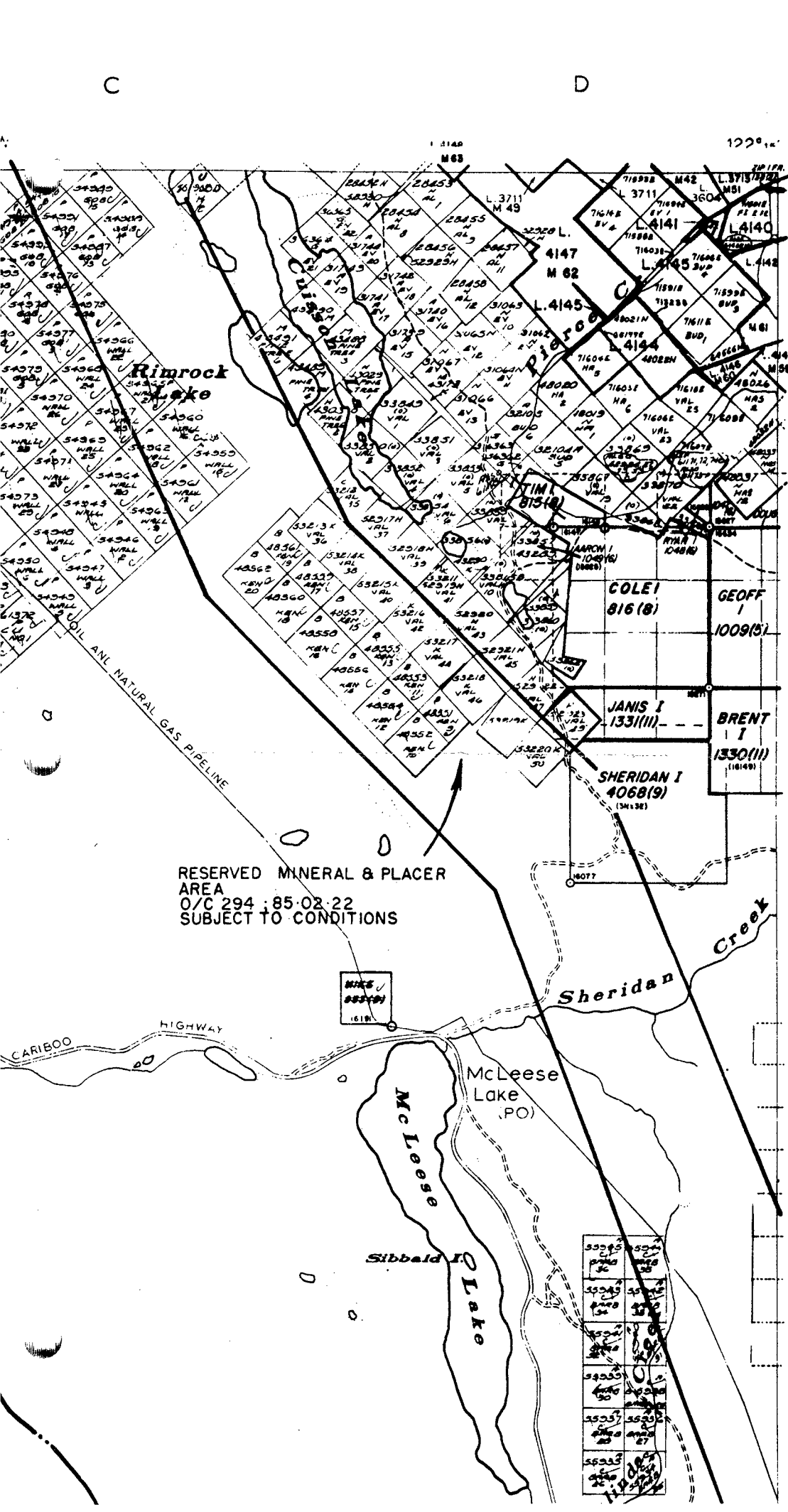
GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-31
SHEET No. 8 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 %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
- the host rx. at this depth is the same as at the surface -qtz still remains at 2.5-15 o/o - the rx. is still a diorite	80 WK		480		60 60 x 5 50 60 45 60 x 4	1/4 1/20 x 5 1/5 1/4 1/4 1/20 x 4	qtz-py qtz-chl-py x 5 py qtz (wlu) (cp) chl-py qtz-chl-py	0 10 20 30 40 50 60 70 80 90	1.5		477	90	57	95942	.09	.010		.05
	ND		490		80 70 x 2 70 x 2 70 80	1/8 1/3 x 2 1/3 + 1/4 1/4 hle	chl-py qtz-py x 2 qtz-chl-py x 2 qtz-ser-py cp	0 10 20 30 40 50 60 70 80 90	1.5		487	90	60	95943	.10	.007	.10 25/0	.05
	80 WK		500		80 70 60 + 30 50	1/10 1/3 1/3 + 1/4 1/4 2' 1/10	qtz-chl-py qtz-py (Mo) (cp) qtz-chl-py x 2 qtz-py (Mo) chl-carb-py chl-py	0 10 20 30 40 50 60 70 80 90	8.0		497	90	57	95944	.13	.019		.05
EOH 507'	80 WK				30 + 90 ?	6" 1/10 x 2 4'	qtz-py (Mo) qtz-chl-py x 2 qq-bx	0 10 20 30 40 50 60 70 80 90	1.5		507	80		95945	.18	.091		.05
G.O.B.								0 10 20 30 40 50 60 70 80 90								16	
								0 10 20 30 40 50 60 70 80 90									

2465



GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,798

46000E 47000E 48000E 49000E 50000E 51000E 52000E

35000N 34000N 33000N 32000N

BUD #6

BUD 8

GREEN GROUP

BUD #5

HA #1

VAL NO21

BUD 7

VAL NO 5

TIM 1

VAL NO19

VAL NO22

VAL NO20

VAL NO 7

AARON 1

SAWMILL GROUP

FLO #1 FR

VAL NO 3

RED GROUP

COLE 1

0 250 500 750 1000 FEET

0 75 150 225 300 METRES

SAWMILL
AUGUST 86
1:2400

GEOLOGICAL BRANCH
ASSESSMENT REPORT

FIGURE 2 15,798

DRILL HOLE LOCATION MAP

Control by chain and compass

85-28

86-25

86-28

86-26

34000 N

86-24

86-27

82-20

80-4

50

85-76

WEST BOUNDARY FAULT ZONE

86-23

86-29

81-36

60

80-3

86-31

81-35

40

15

85-75

80-2

60

79-18

79-15

80-7

86-30

85-31

79-14

QUARTZ PORPHYRY

SAWMILL ORE ZONE

80-1

79-16

81-38

80-5

79-13

79-17

86-22

30

40

81-34

82-22

81-37

79-19

86-21

35

PYRITE ZONE

79-11

48000 E

80-6

82-21

FIGURE 3

GEOLOGICAL BRANCH ASSESSMENT REPORT

15,798

Scale :

0 200 400 600 Feet

0 50 100 150 200 Meters

DWN.	CHECK	APPR.	ISSUED FOR	DATE	REV.	DESCRIPTION

REFERENCE No. DWG. No.

SCALE 1 inch = 200 feet G.D.B.

GIBRALTAR MINES LIMITED

SAWMILL ORE ZONE

2690 LEVEL : ORE OUTLINE (.18% Cu Cut off)

FILE No.

NCI – 210 – G.M.L.

40000 50000 60000 70000

40000 30000 20000

PAUL 1

MO 1

TIM 1

RYAN 1

DOUG 1

ASHLEY 1

COLE 1

GEOFF 1

BARB 1

BRUCE 1

KATE 1

JAMES 1

BRENT 1

SHERIDAN 1

GÉOLOGICAL BRANCH
ASSESSMENT REPORT

15,798

FIGURE 4.

SAWMILL GROUP
MINERAL CLAIMS
GIBRALTAR MINES LIMITED
18-FEB-87 SCALE=1: 24000

0 2 4 6 8
FEET X 1000

0 1 2 3
KILOMETRES

40000 50000 60000 70000