DIAMOND DRILL REPORT

ON THE

RED GROUP

CARIBOO MINING DIVISION

93 B 8, 9

(LATITUDE 52° 30', LONGITUDE 122° 17')

OWNER AND OPERATOR

GIBRALTAR MINES LIMITED

MCLEESE LAKE, B. C.

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Submitted: 20 May, 1981

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 9173

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1.0 INTRODUCTION

The Red Group lies approximately 1.25 miles (2.01 km) south of the Gibraltar Mines Concentrator and touches the north end of Granite Lake. It is situated along the southwest flank of Granite Mountain within and elevation range of approximately 3,500 to 4,000 feet. Access is via the mine haul road and 4-wheel drive roads from the east end of the Pollyanna Pit. The location of the claim group is shown in Figure 1.

The Red Group shares a common history with the adjacent Purple Group. An account of this is quoted from a "Diamond Drill Report on the Purple Group" submitted for assessment work on April 20, 1981.

"The early history of this claim area is somewhat sketchy. It was first described as the Rainbow Group in 1918. A 1925 B.C. Ministry of Mines Report states that "T. H. Jackson holds or held 40 claims in this region either under option or in virtue of ownership by himself and associates."

In 1925 the area was staked by the Hill brothers as the Pollyanna claims. A 60-foot wide shear system in "granodiorite", showing malachite and azurite mineralization, was exposed by a series of open cuts. An eight foot deep trench exposed a quartz vein 15 feet wide striking N 60° W (magnetic). A grab sample from the dump of this material assayed: gold-trace, silver-trace, copper-3.5%. Copper mineralization was in the form of azurite, malachite, and chalcopyrite.

The 1928 report indicates five claims being held by F. Conway, Mrs. Conway, T. Thompson, H. B. Hill and H. F. Hill. The shear system was expanded to a 75-foot width and given a strike and dip of 55° W (magnetic) 45° NE. A trench 15 feet deep and 20 feet long was dug to expose a quartz vein 15 feet wide with a flat dip to the northeast. Mineralization consisted of azurite, malachite and chalcopyrite. A vertical shaft was sunk to a depth of 33 feet. Copper stains and chalcopyrite were visible above the level of water in the shaft and the top three feet showed 2.00% copper, but no gold or silver. Minor cuprite was noted.

In 1949 the claims were relocated by C. E. Johnson and R. R. Moffat as the Copper King claims. Copper mineralization was reported in irregularily placed quartz lenses between shear planes oriented at N 30° W/45° E and on noses of folds in a 170-foot wide zone of sheared "granodiorite".

The 1950 report states that three shafts had been sunk previously, running along a north-south line. These were 25 feet apart. The northern most one was 10 feet deep and showed no mineralization. The middle shaft showed good mineralization and in 1949 was drained and mined. Half a ton of ore averaging 10.5% copper was shipped to Tacoma, Washington. A grab sample from their dump assayed; gold-nil, silver-0.1 oz. per ton, copper-3.3%. The southern-most shaft was filled with water but dump material showed malachite staining.

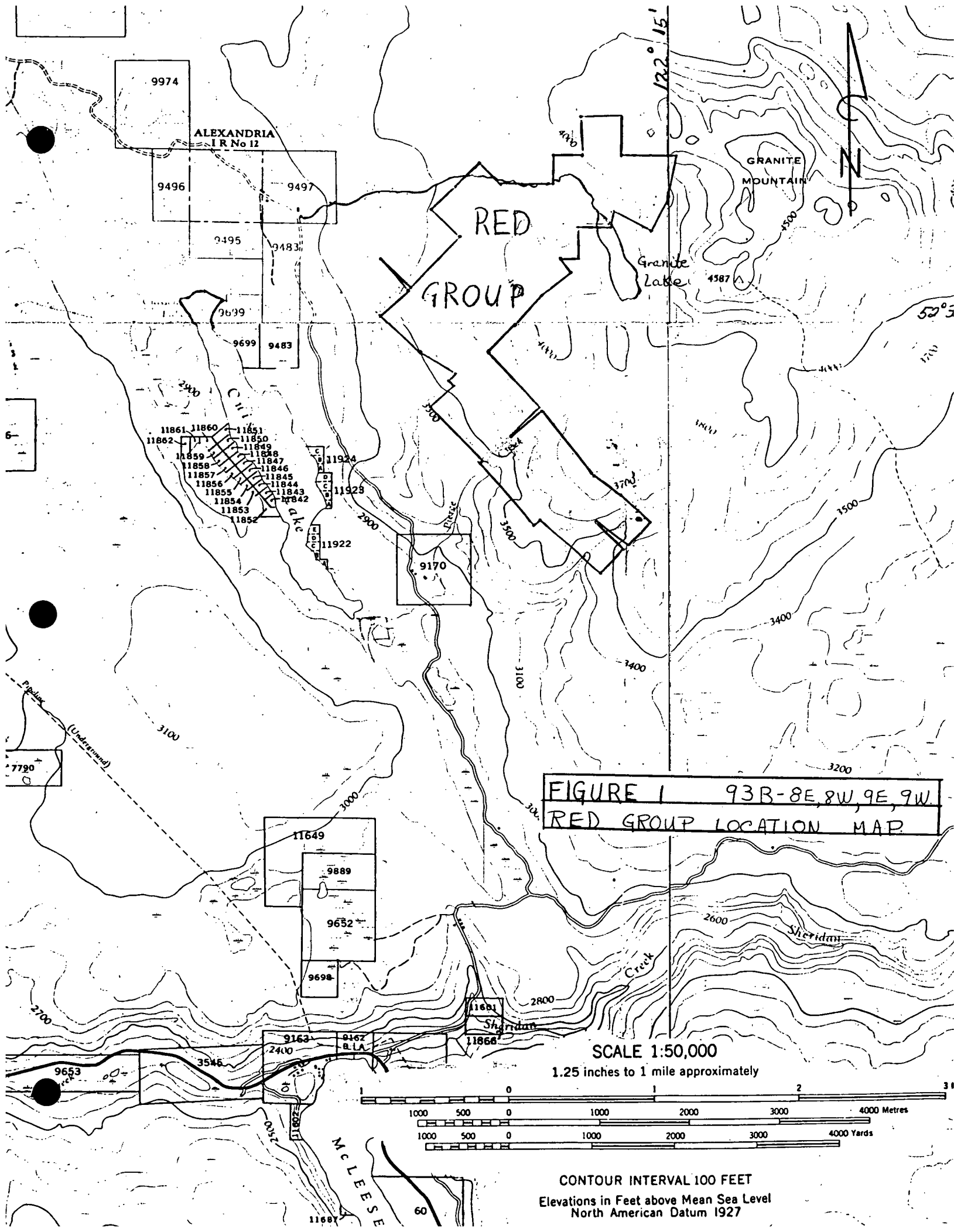


FIGURE 1 93B-8E, 8W, 9E, 9W.
RED GROUP LOCATION MAP

In 1949 an attempt was made at trenching thirty feet north of the north shaft to cross-cut the shear zone. This, however was abandoned because the overburden was to deep.

On 1950 they sank a 28-foot deep shaft 120 feet south of the most southerly shaft. It exposed a light malachite staining on sheared "granodiorite" and a small amount of crushed barren quartz. A grab sample form the dump assayed: gold-trace, silver-nil copper-0.3%.

From 1954 to 1956 the claims were restaked as the Pollyanna claims by Kimaclo Mines Ltd. They reported the same orientation for the shear system and expanded its width to 230 feet. Mineralization in the form of malachite-azurite-chalcopyrite and traces of cuprite occurs in small and irregular quartz veins which run approximately parallel to the shearing. Another grab sample from the Copper King dump mentioned above assayed 0.6% copper.

Kimaclo Mines Ltd. allowed their claims to lapse and the property was staked by Mr. Robert Glen in early 1963. Keevil Mining Co. held an option on this property in 1963 during which time they performed geochemical and induced polarization surveys and drilled two holes. In 1964, Duval Corporation optioned the property from R. Glen and partially defined 20 to 30 million tons of low grade copper mineralization.

In 1967 the area was restaked as the GG claims by Canex Aerial Exploration Ltd. and Duval Corporation. They describe the mineralized system differently, giving it an orientation of N 35° W/50 to 70° SW. They described the system as a central vein zone, two to five feet thick, flanked by quartz-muscovite schist grading into a foliated quartz-diorite. Streaks and bands of pyrite and chalcopyrite exist in the schist zone.

Stripping of overburden exposed 30 feet of schist and 30 feet of bleached, schistose quartz-diorite. A hand trench 100 feet northeast of the stripping exposed rubble of vein quartz and quartz-muscovite schist. The Copper King shaft was covered by the bulldozing.

The 1969 report gives the reserves as 61,000,000 tons at 0.36% copper. 44,105 feet of N.Q. diamond drilling was done in 81 holes and 200 feet of 5 7/8" diameter rotary drilling was done in two holes.

In 1970 a topo-mapping survey was completed. Stripping was done to clear the millsite and 32 diamond drill holes, totalling 13,783' were drilled. Four underground diamond drill holes, totalling 1,174', were drilled on the GG claims.

By 1971 the Canex Aerial claims were transferred to Gibraltar Mines Limited. "1

This report covers a drill program designed to test the easterly extension of the Pollyanna Pit ore systems. G & D Diamond Drilling Co. Ltd. was contracted during the period April 17 to May 13, 1981 to drill thirteen vertical N.Q Wireline diamond drill holes totalling 6,210 feet (189.81m). Core is stored at Gibraltar Mines plant site.

"1. M. R. Schaumberger, Gibraltar Mines Ltd., Diamond Drill Report on the Purple Group, Cariboo Mining Division, 93B9, April 26, 1981."

2.0 MINERAL CLAIMS

Claims and leases of the Red Group are shown in Figure 2. Pertinent information is tabulated below.

CLAIM NAME	RECORD NO.	LOT NO.	LEASE	ANNIVERSAY DATE
AL 13	28549	4147	M-62	OCTOBER
AL 14	28560	4147	M-62	OCTOBER
AL 15	28561	3711	M-49	JULY
AL 16	28562	4147	M-62	OCTOBER
AL 17	28563	3711	M-49	JULY
AL 18	28564	3711	M-49	JULY
AL 19	28565	3711	M-49	JULY
AL 20	28566	3711	M-49	JULY
AL 21 Fraction	28567	3711	M-49	JULY
AL 22 Fraction	28568	4147	M-62	OCTOBER
EST 1 Fraction	62399	3711	M-49	JULY
EST 2 Fraction	62400	3711	M-49	JULY
EST 4 Fraction	62402	3711	M-49	JULY
EV 5	31058	4147	M-62	OCTOBER
EV 6	31059	4147	M-62	OCTOBER
EV 7	31060	4147	M-62	OCTOBER
EV 8	31061	4147	M-62	OCTOBER
ZEPHYR 14	25587	3711	M-49	JULY
ZEPHYR 16	25589	3711	M-49	JULY
GG 9	29241	3603	M-41	JULY
GG 10	29242	3603	M-41	JULY
GG 15	29247	3603	M-41	JULY
GG 17	29249	3603	M-41	JULY
GG 18	29250	3603	M-41	JULY
GG 19	42812	3603	M-41	JULY
GG 29	29261	3603	M-41	JULY
GG 50	29262	3603	M-41	JULY
GG 51	29263	3603	M-41	JULY
GG 52	29264	3603	M-41	JULY
HT 14 Fraction	42811	3603	M-41	JULY
GIB 9	62412	3603	M-41	JULY
GIB 19 Fraction	65177			DECEMBER 16
HA 3	48021			OCTOBER 16
HA 4	48022			OCTOBER 16
HA 5	71604			MAY 23
HA 6	71605			MAY 23
VAL 23	71606			MAY 23
VAL 23	71607			MAY 23
VAL 25	71610			MAY 23
VAL 26	71609			MAY 23

All of these claims belong to Gibraltar Mines Ltd. and adjoin to the south, west, and north, 2-post claims of the Gibraltar Mines permanent property. The Keevil claims adjoin to the east.

3.0 DRILL PROGRAM

3.1 OBJECTIVE

The purpose of this drill program was to test the easterly extension of the Pollyanna Pit ore systems.

3.2 RESULTS

The drill hole locations are shown in Figure 3. The assaying is not completed as yet but, using the available assays and visual estimates, it appears that all holes intersected some ore grade mineralization except 81-19 and 81-26. There is only a weak copper oxide effect seen in a few holes. The supergene effect is negligible. All copper values reported here and in the logs are for total copper. All molybdenum reported is MoS_2.

Hole 81-16 was cased to 50 feet. Between 220 and 300 feet, a 80-foot zone of 0.51% copper, 0.023% MoS_2 was intersected. The hole was drilled to 491 feet.

Hole 81-17 was cased to 20 feet. Assaying is not completed as yet, but a rather sporadic mineralization averages 0.24% copper, 0.012% MoS_2 for the intersection 150 to 260 feet. Visual estimates indicate a possible extension of this zone. The hole was drilled to 496 feet.

Hole 81-18 was cased to 14 feet. Between 220 and 420 feet, a 200-foot zone of 0.34% copper, 0.020% MoS_2 was intersected. Visual estimates indicate a possible extension of this zone. The hole was drilled to 480 feet.

Hole 81-19 was cased to 22 feet. No assays are available but visual estimates indicate a waste hole. It was drilled to 381 feet.

Hole 81-20 was cased to 50 feet. No assays are available but visual estimates outline a 30-foot zone of 0.23% copper between 430 and 460 feet. The hole was drilled to 472 feet.

Hole 81-21 was cased to 34 feet. Visual estimates indicate a zone between 150 and 240 feet of 0.25% copper. The hole was drilled to 509 feet.

Hole 81-22 was cased to 20 feet. Between 330 and 480 feet, a 150-foot zone of 0.28% copper, 0.019%MoS_2 was intersected. The hole was drilled to 567 feet.

Hole 81-23 was cased to 12 feet. There are a few high estimates at the top of the hole but they are due to oxide copper. Between 320 and 410 feet, a 90-foot zone of 0.36% copper, 0.047% MoS_2 was intersected. The hole was drilled to 497 feet.

Hole 81-24 was cased to 30 feet. Between 200 and 290 feet, a 90-foot zone of 0.36% copper, 0.030% MoS_2 was intersected. The hole was lost at 296 feet.

Hole 81-25 was cased to 40 feet. Available assays and visual estimates indicate a zone from 200 to 280 feet of approximately 0.25% copper and low grade molybdenum. The hole was drilled to 506 feet.

Hole 81-26 was cased to 50 feet. Visual estimates indicate a waste hole. It was drilled to 521 feet.

Hole 81-27 was cased to 40 feet. Visual estimates indicate a zone between 140 and 290 feet of approximately 0.24% copper. Another zone of approximately 0.24% copper was noted between 360 and 400 feet. The hole was drilled to 493 feet.

Hole 81-28 was cased to 27 feet. Visual estimates indicate a 40-foot zone of approximately 0.22% copper between 380 and 420 feet. The hole was drilled to 501 feet.

3.3 INTERPRETATION

The mineralization outlined by this drilling appears to be porphyry-type mineralization and is hosted by epidote-chlorite altered "Mine Phase" quartz diorite, quartz-sericite-chlorite schist and a quartz-porphyry leucocratic phase.

Drill results indicate a possibly flat-lying easterly extension of the Pollyanna ore systems but the ground is so badly faulted that an accurate interpretation would be extremely difficult.

4.0 STATEMENT OF EXPENDITURES

APRIL, MAY, 1981 DIAMOND DRILLING, RED GROUP

a) Site Preparation

TD20E Bulldozer	Apr. 4-6	23 hrs.@ $66.25	$1,523.75	
Drill Company Charges		43 hrs.@ $40.00	1,720.00	
			$3,243.75	$ 3,243.75

b) Drilling Costs

Drilling:	81-16	$ 7,217.70		
	81-17	7,291.20		
	81-18	7,056.00		
	81-19	5,600.70		
	81-20	6,938.40		
	81-21	7,500.30		
	81-22	8,468.90		
	81-23	7,305.90		
	81-24	4,351.20		
	81-25	7,450.20		
	81-26	7,700.70		
	81-27	7,247.10		
	81-28	7,366.70		
		$91,495.00	$91,495.00	
Man Hours (set-up, tear-down, hole stabilizing, reaming, etc.)		230 hrs. @ $20.00	4,600.00	
Materials			17,245.20	
			$113,340.20	$113,340.20

c) Vehicle Costs

4 x 4 1980 Suburban	Apr. 3	1 day	
	Apr. 20-24	5 days	
	Apr. 27-May 1	5 days	
	May 4-8	5 days	
	May 11- 13	2 days	
		18 days @ $17.20	309.60

d) Assay Costs

212 assays @ $4.40/assay	932.80

e) Miscellaneous Costs

320 core boxes @ $4.60	$1,472.00	
Sample bags, tags, etc.	150.00	
	$1,622.00	$ 1,622.00

f) Personnel Costs

Core logging and supervision

G. D. Bysouth	Apr. 23	8 hrs.			
	Apr. 28-30	14 hrs.			
	May 1	8 hrs.			
	May 4-8	40 hrs.			
	May 11	4 hrs.			
		74 hrs.	@ $19.60/hr.	$1,450.40	
M. R. Schaumberger	Apr. 23-24	8 hrs.			
	Apr. 27-30	28 hrs.			
	May 7-8	12 hrs.			
	May 11-15	32 hrs.			
	May 19	8 hrs.			
		96 hrs.	@ $10.67/hr.	1,024.32	
W. D. T. Raven	May 8	8 hrs.			
	May 11-15	36 hrs.			
		44 hrs.	@ $9.23/hr.	406.12	

Field Work and Organizing

E. Oliver	Apr. 17	8 hrs.			
	Apr. 20-24	20 hrs.			
	Apr. 27-May 1	20 hrs.			
	May 4-8	20 hrs.			
	May 11-13	12 hrs.			
		80 hrs.	@ $13.23/hr.	1,058.40	
C. Johnston	Apr. 3	8 hrs.			
	Apr. 17	8 hrs.			
	Apr. 20-24	20 hrs.			
	Apr. 27-May 1	20 hrs.			
	May 4-8	20 hrs.			
	May 11-13	12 hrs.			
		88 hrs.	@ $10.87/hr.	956.56	

Core Splitting

D. Tait	Apr. 23-24	16 hrs.			
	Apr. 27-May 1	40 hrs.			
	May 4-8	40 hrs.			
	May 11-15	40 hrs.			
		136 hrs.	@ $6.67/hr.	907.12	
				$5,802.92	5,802.92

TOTAL DRILLING COST $125,251.27

5.0 CONCLUSIONS

Drill results have extended the Pollyanna ore systems in an easterly direction though further drilling is required to firmly establish the relevant structures. Two holes suggest that the ore is cut off on the eastern edge of the property.

Submitted by,

M. R. Schaumberger

M. R. Schaumberger
Mine Exploration Geologist

GIBRALTAR MINES LIMITED.

APPENDIX I

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

1. I am a geologist.

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

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

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

Garry D. Bysouth

Garry D. Bysouth

APPENDIX I

STATEMENT OF QUALIFICATION

I, Madeline Schaumberger, of Gibraltar Mines Limited, McLeese Lake, B.C., do certify that:

1. I am a geologist.

2. I am a graduate of the University of British Columbia with a B.Sc. in Geological Science in 1978.

3. From 1978 to the present I have been engaged in mining and exploration geology in British Columbia.

4. I personally assisted in the supervision of this drill program, logging of the core and assessment of the results.

Madeline R. Schaumberger

Madeline R. Schaumberger

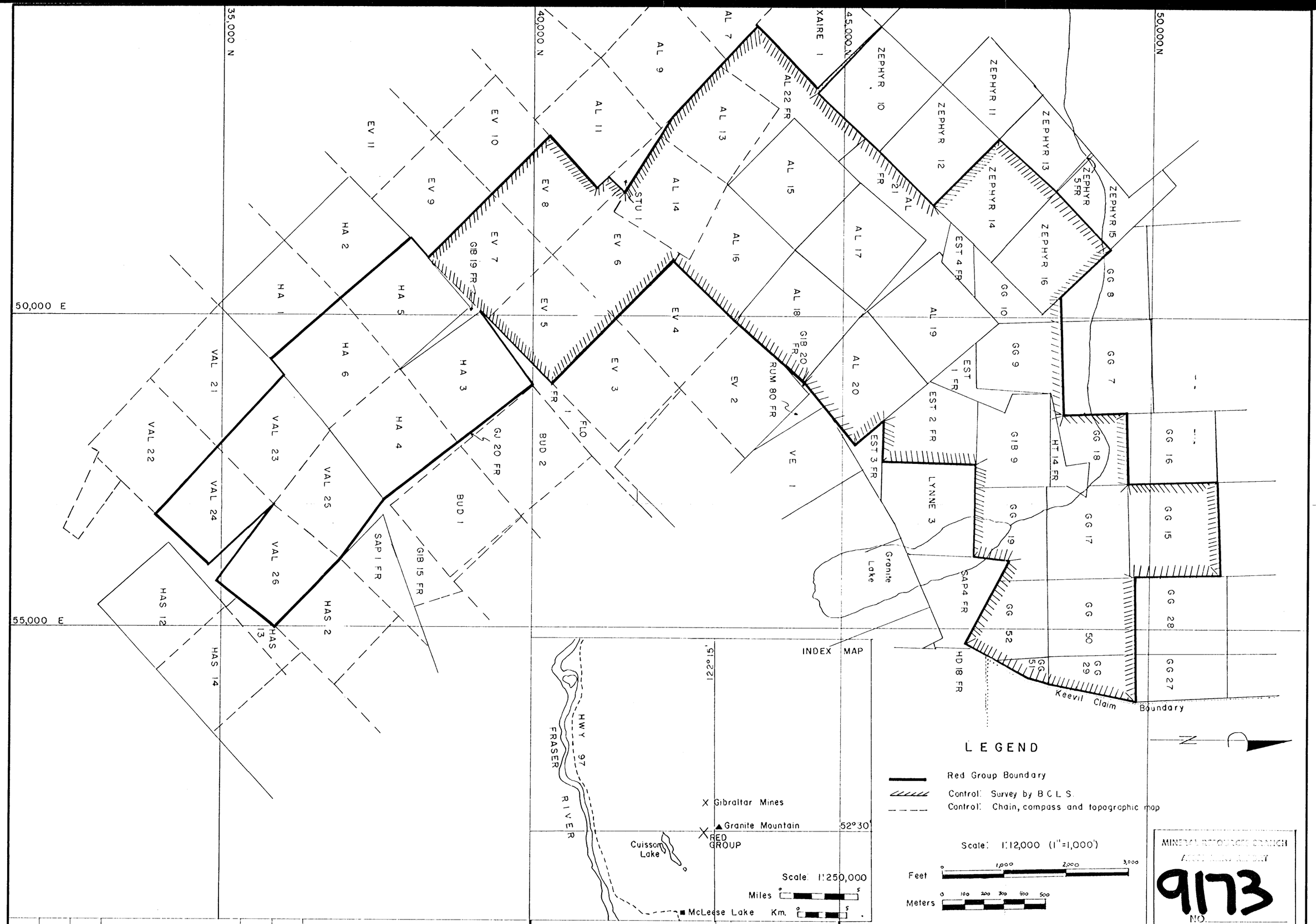
APPENDIX II

ABBREVIATIONS USED IN DRILL LOGS

cal.	calcite
carb.	carbonate
chl.	chlorite
cp.	chalcopyrite
cren.	crenulated
dissem.	disseminated
ep.	epidote
foln.	foliation
grn.	grained
lim.	limonite
mal.	malachite
mag.	magnetite
py	pyrite
QSP	quartz-sericite-py
qtz	quartz
rx.	rock
ser.	sericite
str.	strong
stkwk	stockwork
wk	weak

BIBLIOGRAPHY

M. R. Schaumberger, Diamond Drill Report on the Purple Group, Cariboo Mining Division, 93 B 9, April 20, 1981



DWN.	CHECK	APPR.	ISSUED FOR	DATE	REV.	DESCRIPTION

REFERENCE | No. | DWG. No.

SCALE

GIBRALTAR MINES LIMITED

RED GROUP

CLAIM LOCATIONS

FILE No. FIGURE 2

NCI-210-G.M.L.

MRS	1505/81																
DWN.	CHECK	APPR.	ISSUED FOR	DATE	REV.	DESCRIPTION	DWN.	CHECK	APPR.	ISSUED FOR	DATE	REV.	DESCRIPTION	REFERENCE	No.	DWG. No.	REFERENCE	No.	DWG. No.
														SCALE					

GIBRALTAR MINES LIMITED

RED GROUP

DIAMOND DRILL HOLE LOCATIONS

FILE No. FIGURE 3·

NO-211-GM.

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-1
SHEET No. 1 of 5

LOCATION: PALLY II
DATE COLLARED: January 5, 1981
DATE COMPLETED: January 6, 1981
BEARING: 0°
LENGTH: 326'
DIP: -90°
LATITUDE: 49,763.57 N
DEPARTURE: 51,125.74 E
ELEVATION: 3,938.96
CORE SIZE: NQ Wireline
SCALE OF LOG: 1" = 10'
REMARKS:
LOGGED BY: MPS
DATE: January 7-8, 1981

Oil	Flag	K-Spar	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	L to Core Foliation	Foliation Alteration	Footage	Structure	Veins L to Core Axis	Width of Vein	Mineralization	% Py	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number Cu	Sample Number Mo	% Cu	% Mo	Estimated Grade
						Cased to 10'			10							10							
					4-5	10-15 MINE PHASE Qtz-DIOR Sauc Alt 15-20 White Qtz-Pp	70%		20		? 60x3 80x5 80 60 60	12" hle x3 hle x5 1/4 1/2 3/4	broken core-gouge-lim lim x3 lim x5 qtz-hem-lim qtz-chl-lim qtz-lim	.5%		13.6	0%	75% 85%	35326		.12	<.002	.02%
					5.		Not Defined		30		85 x 20 80 x 20 30 ?	hle x 20 hle x 20 hle 24"	lim x 20 lim x 20 lim broken core. lim	.5%	LIMONITE ALTERATION	24	0%		35327		.008	.004	.02%
	3905				5-6		80° Mod		40		85° x 20 50° x 20 15 45° 65	hle x 20 hle x 20 hle 1/10 1/10	lim x 20 lim x 20 lim qtz-lim qtz-chl-lim	.05%		34.5	17%	90% 90%	35328		.09	.006	.02%
					5-6		80° Mod		50		60 x 6 85 x 30 85°	hle hle 2	lim x 6 lim x 30 broken core-lim	.5%	Moderate Alt'n	45	37%	90%	35329		.09	.001	.02%
					5-6	55-68 Sauc Alt'n w/narrow bands of Chl. Alt'n	80° Mod		60		85 x 10 80° x 2 40° 80° 80°	hle 1/10 x 2 hle hle 1/10 x 2	lim x 10 qtz-lim Cu-pitch cu-pitch-lim qtz-lim cu-pitch	.5%	Amorphous-Vuggy	55	17%	95%	35330			.004	.07

GRID _____

GIBRALTAR MINES LTD.

HOLE No. [illegible]
SHEET No. 2 of 5

Dis	Plag.	K-Spar.	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Sericite Zone	Remarks	Footage Blocks.	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number Cu.	Ag oz/ton	% Cu	Mo.	Estimated Grade
					5-6	68 - 115	80° Mod		70		85 x 4 80° x 10 65 x 3 15°	hle hle 1/4 x 3 hle	lim lim qtz - lim - carb lim	x3 .5%	Some Vuggy Core	65	17%	90%	35331		.11	.006	.05%
	3860				2	Major Fault Zone -gouge	Not Defined		80				gouge lim	.5%	Moderate	71 76	0%	20% 15%	35332	.034	.20	.006	.05%
					2	-broken core	Not Defined		90				gouge	.5	Alteration	81 86	0%	15%	35333	.028	.21	.006	.05%
					2		Not Defined		100				gouge	.5%		96	0%	15%	35334	.028	.22	.016	.05%
					2-4	- Broken Qtz PP 100 - 112	Not Defined		110		80° x 3 5°	hle x 3 1/8	qtz - chl - py - (cp) x3 qtz - sch - (cp)	1%		106	0%	10%	35335	.041	.40	.010	.18%
					5-6	112 - 115 Broken core - Dk Alt^n - gouge 80° 115 - 120 Dk Alt^n	Mod.		120		85° 80° 76° 70° 5° 45°	1 1 1/2 1 1/2 1/8 1/4 1/16	qtz - chl - cp - (carb) - Vuggy qtz - carb - chl qtz - chl - carb - cp chl - py qtz - chl - carb - cp qtz - carb - chl	1%		116	10%	75%	35336	.054	.65	.008	35%
	3815				5-6	120 - 220' Same Alt^n	85° Wk.		130		10 10° x 2 5° 60° 10° 95°	1/4 1/20 x 2 1/4 1/4 1/16 1/4	qtz - chl - carb - py - cp qtz - chl - cp x 2 qtz - chl - py qtz - chl - carb - cp qtz - chl - py qtz - chl - cp	1%		124 128	30%	75% 90%	35337	.041	.40	.020	.14%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 87-1
SHEET No. 3 of 5

ROCK TYPES & ALTERATION: Dis	Plag.	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	% ~~Sulphides~~ Py	Remarks	Footage Blocks.	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number Cu.	Ag ~~oz/ton~~ oz/ton	% Cu.	Mo.	Estimated Grade
					5		85° WK		140		85 80° 75 x 2 65° 60° x 2 30° 80°	hle 1/2 1+5 1 1/2+1/4 1/4 1/2	chl-hem qtz-chl-carb>>>

GRID _____

GIBRALTAR MINES LTD.

HOLE No. [illegible]
SHEET No. 4 of 5

Qtz	Plag.	K-Spar.	Mafic	Testers	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Veins	Mineralization	% Py	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number Cu.	Ag oz/ton	% Cu.	Mo.	Estimated Grade
					5-6		85 wk		210		80 x2 10° 50 x2 80 45° 45° 45°	1/4 x2 1/4 hle x 2 1/20 12" 1/16 1/16	qtz-ser-carb-py x2 qtz-chl-carb-py carb x2 chl-qtz-cp White qtz pp qtz-ep-carb chl-carb-py	1%	hem. stain.	206	60%	95%	35345		.08	.004	.10%
	3725				5-6		80-85 v. wk		220		60° ? 60° 20° 5° 50 80 x2	2 12 6 1/10 1/2 1/8 1/20 x2	qtz-chl-sauc-carb-<py>-<cp> Broken core - gouge qtz-carb-chl-<cp> qtz-chl-carb-cp. qtz-chl-carb-cp-py qtz-chl-carb-cp. qtz-chl-carb-cp x2	1%		216	17%	90%	35346	.034	.26	.014	.30%
					5-6	220-261 Sauc Alt'n w/ Minor Chl Bands	80 85 v wk		230		10 75 0° 70 60° 55 60	hle 1/2 hle 1/8 1/16 hle 1/4	chl qtz-chl-carb-py carb-chl. qtz-chl-ser-carb-py qtz-chl-carb-py cp-qtz-carb-chl. qtz-chl-cp	1%		226	33%	95%	35347		.07	.004	.20%
					5-6		60 85 v wk		240		60° 45° 85° 60° 200 15° 30° 60	1/2 1/20 1/10 1 hle 1/20 1/8 3	qtz-chl-ser-carb-zone qtz-chl-carb-py qtz-<chl>-<py> qtz-chl-ser-carb qtz-sauc-chl-cp. qtz-chl-carb-<py> qtz-carb-<chl>-py-cp. qtz-<chl>-<cp>	2%		236	60%	95%	35348	.021	.25	.016	.20%
					5-6		80 85 v wk		250		80° 5°+15° 70 x2 10° x2 60 x 6 30 x2 60 30°	1/16 hle x 2 hle x2 1/2 x2 hle x 6 hle x2 1/16	qtz-chl-carb-cp. qtz-chl-carb qtz-chl-carb-cp-py x2 qtz-chl-carb-cp x2 chl-cp x 6 chl-cp-ser-cp qtz-chl-carb-cp	8%		246	40%	90%	35349	.030	.34	.018	.42%
	3680				5-6		85 v wk		260		45° 80 x2 85° 50 80 30 75	1/16 hle x2 1/10 1/10 1/4 1 1/20	qtz-chl-carb-cp carb x2 qtz-carb-chl-cp py qtz-carb-chl-cp. qtz-chl-carb-ser-cp qtz-carb-chl-cp qtz-cp-chl	8%		256	37%	90%	35350	.034	.27	.010	.30%
					5-6	261-277 qtz TP / Sauc Alt'n O/z-rich Phase w/ ep-blotches	75 85° wk to Mod		270		50 20° 45° 30° 60° 60 x2 85°	1/16 1/16 1/20 1/10 1/2 1/10 x2 4	qtz-carb-chl-cp chl-qtz-ser-py qtz-carb-chl-cp qtz-ser-carb-chl-cp qtz-carb-magnetite-<cp> qtz-<chl>-cp x2 cp qtz-<ser>-cp-mo	2%		266	23%	95%	35351	.030	.26	.044	.22%

GRID _____

GIBRALTAR MINES LTD.

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

Qtz	Plag	K-Spar	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	L to Core Foliation	Foliation Alteration	Footage	Structure	Veins L to Core Axis	Width of Vein	Mineralization	% Py	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS Sample Number Cu.	Ag oz/ton	% Cu	Mo.	Estimated Grade
					5.6	277-286	80° v wk to Not Defined		280	80° 80 X2 50° 75° 50° 70° 30°	hle 1/24/20 1/4 1/2 1/20 1/20 1/10	chl-qtz-py qtz-sauc-chlx2 qtz-carb-chl-cpx qtz-sauc-chl-cp-py qtz-carb-chl-cp qtz-carb-chl-cp qtz-chl-carb-py-cp	.8%		276	30%	95%	35352	.030	.25	.010	.28%
					5.6	Sauc Alt 286-303	80° N WK		290	50 85° 20° 5° 20° 60°	1/20 1/16 1/20 hle 1/4 1/10	qtz-chl-carb-py qtz-chl-carb-py carb carb qtz-chl-carb-py-cp qtz-sauc-chl-py	1%		286	40%	95%	35353		.18	.004	.19%
					5.6	Dk Alt Sauc Alt	85-90° Mod to No+ Defind		300	45 30 20 ? 80x3 80x2 75	1/20 1/16 12 12 hle x3 1/16 + 1/8 12	qtz-chl-py qtz-carb-py-chl qtz-carb-py broken core qtz-chl-pyx3 qtz-chl-pyx2 qtz-sauc-carb-cpx2	2%		296	30%	85%	35354		.10	.002	.09%
3635					5.6	303-308 White Qtz PP?			310	30 x2 55 x3 45 x2 30 x2 5° 10° x2 30°	1/4 x2 1/20 x2 1/20 x2 1/10 x2 1/8 1/8 x2 1/10	qtz-carb-py x2 qtz-carb-py x2 qtz-carb-pyx2 qtz-chl-cp x2 qtz-carb-cp qtz-chl-carb-cp x2 qtz-carb-chl-py	2%		306	63%	80%	35355	.021	.24	.006	.19%
					5.6	Sauc Alt/Qtz Hch Phase/ Dk Alt			320	85° 30 x2 15 x3 10° 25° 5° 30° 20°	1 1/16 x2 1/20 x3 hle 1/8 1/2 1/20 1/10	chl-qtz-sauc-cpx2 qtz-carb-chl-pyx2 qtz-carb-chl-cp x3 chl-cp-py qtz-chl-carb-py-cp qtz-sauc qtz-chl-carb-py chl-sauc-qtz-carb	2%		316	73%	98%	35356		.17	.020	.27%
					5.6	Qtz PP?			326	70° 25° 80°	1/20 1/8 1/8	chl-carb-cpp qtz-chl-carb-py qtz-carb-chl-cp	1%		326		95%					.24%
						E.O.H. @ 326'																	

M. R. Schaumberger

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-2
SHEET No. 1 of 8

LOCATION: Polixanna
DATE COLLARED: January 7 1981
DATE COMPLETED: January 10, 1981
BEARING: 0°
LENGTH: ~~506'~~ 500'
DIP: -90°
LATITUDE: 49,764.34
DEPARTURE: 51,157.48
ELEVATION: 3,939.46
CORE SIZE: NQW
SCALE OF LOG: 1" = 10'
REMARKS:
LOGGED BY: G.D.B
DATE: Jan 12-13 1981

Qtz	Plag.	K-Spar.	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Sericite Zone	Remarks	Footage Blocks.	RQD	Estimated Core Recovery %	ASSAY RESULTS Sample Number Cu.	Ag oz/Ton	% Cu.	Mo.	Estimated Grade
						Casing To 20'			20					PYRITE		20							
						MINE PHASE QUARTZ DIORITE (20' - 32') Saus. Alt'n (20 - 32') 32'	ND		30		60 80 x 10 80 ?	36" hlex10 6'	chl-banded-lim zone lim-MnO2 x 10 Quartz Porp Dyke - completely lim. stained	<.5%	Limonite Strong to 53'	26	0	75 80	35398		.15 .10 0X	.006	
						FAULT ZONE (32' - 66')	ND		40		? ?	5' 3'	qq (bx.) zone bx (qq) · hem	<.5%		32 36	0	40 45	35399		.07 .04 0X	.006	
							ND		50		?	26'	qq+bx (hem)	.5%?		43	0	30	35400		.04 .03 0X	.006	
							ND		60					.5%?		53 57	0	10	35401		.14 .02 0X	.010	
						66	ND		70		45 5	1/10 x 2 1/10	qtz-chl-cp x 2 qtz-chl (cp)	1%		67	0	30	35402	.036	.35 .02 0X	.012	

FORM 130-L.S.D. 1

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-2
SHEET No. 2 of 8

Plag.	K-Spar.	Mafic	Textures	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation, Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Sericite Zone	Remarks	Footage Blocks.	RQD	Estimated Core Recovery %	Sample Number Cu.	Sample Number Ag oz/ton	% Cu.	% Mo.	Estimated Grade
					MINE PHASE QUARTZ DIORITE (66'-80') Saus. Alt'n (66'-80)	ND		80		15x2 + 45x2 16x3 45x2 10x3 10? 20 30 80?	1/10x4 1/10x3 1/10x2 1/20x3 12" 1/10x2 4"	qt3-chl-py-cp x4 qt3-chl-(cp) x3 qt3-chl (cp) x2 chl x3 qq+bx (py) qt3-chl-py qt3-chl (vug)	PYRITE 1%		77	0	50	35403	.058	.73 / .02 0X	.032	
					QUARTZ SERICITE (CHLOR.) ZONE (80-108) Core very vuggy	60?		90				qt3-ser-(chl) zone	3%	minor cc	87	10	85	35404	.030	.44 / .04 0X	.006	
					- structure obscur- - chl prominent over ~10' zones @ boundarys of zone	60? Cren?		100		60?	28'	py (cp)-lim diss. and along qt3-chl veinlets - mainly as 45-60 + 10-20° sets. - but str. obscur and poss. intense cren.	3%	minor cc	97	23	60	35405	.057	.64 / .01 0X	.060	
						60?		108					3%	minor cc	107	30	85	35406	.039	.46 / .01 0X	.028	
								110		30 20x2	8" 1/10x2	qt3-cp(cc) qt3-chl-py-cp x2										
					MINE PHASE QUARTZ DIORITE (108'-280) Saus. Alt'n (108'-280)	ND		120		40 ? 45 0-5 30x3 + 45x2 5	1/2 12" 4' 1/20 2" 1/20-hlex5 1/2	qt3 qq+bx+py qt3-ser-chl (py-cp) zone (very vuggy) Mo qt3 (cp)(cc) bx + vuggy qt3-chl (py)(cp) x5	1%		117	13	85	35407	.039	.58 / .01 0X	.112	
					Leucocratic Phase			130		5 45x3 26 80 80 30 20 80	1/4-3/8 1/8x3 1/4 1/2 1" 1/2" 1/4 1/2	qt3-chl-cp qt3-chl-cp(cc) x3 qt3-py-cp-mag qt3-chl (vuggy) qt3 (vug) qt3-cp-mag (vug) qt3-cp qt3-chl (vug)	<.5%		127	43	90	35408	.026	.25 / <.01 0X	.006	
								140		30 80 50x3 5 + 45x3 50 80 10x2 + 40x2	1/4 1/8 1/8x3 1/4 + 1/10x2 2" 1" 1/20-1/10 x4	qt3-cp-Mo qt3-chl-cp-cc (vug). qt3-chl x3 qt3-chl-py-cp-cc (vug) x4 qt3 (cp)(cc) qt3-chl (cp) qt3-chl (py)(cp) x4	<.5%		137	33	90	35409	.026	.30 / .01 0X	.020	

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GIBRALTAR MINES LTD.

HOLE No. 81-2
SHEET No. 3 of 8

ROCK TYPES & ALTERATION: Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Sericite Zone	Remarks	Footage Blocks.	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number Cu.	Ag oz/ton	% Cu.	Mo.	Estimated Grade
					MINE PHASE QUARTZ DIORITE (Saus. Alth) (108-280)	ND		150		20+45 50 15+50 85 10+45 45x2 10x2 45x3	1/10x2 1/10 1/10x2 1" 1/4x2 1/10x2 1/10x2 1/8x3	qt3-chl(cp)x2 qt3-chl-cp qt3-chl-cpx2 qt3 qt3-chl-mag-cp(cc)x2 qt3-chl-cpx2 qt3-chl(cp) qt3-chl(cp)	PYRITE <.5%		146	47	95	35410	.034	.43 .01 0X	.016	
						ND		160		40 45 5 15+50 5x3 50 90	1/20 1/2 1/2 1/4x2 1/20x3 1/10 1/20	qt3-cp qt3-chl-cp qt3-cp qt3-chl-cpx2 qt3-chl-cpx3 qt3-chl-cp chl-cp	<.5%		156	43	90	35411	.040	.59 <.01 0X	.020	
						ND		170		50 5x3 5+50 5 30	1/20 1/20x3 1/10x2 1" 36"	qt3-cp qt3-chl(cp)x2 qt3-chl-cp(cc)x2 qt3-chl(cp)(cc) qt3-ser-chl-carb.(cp) zone (minor cc)	<.5%		166	57	95	35412	.028	.23 <.01 0X	.006	
						ND		180		5+45 5 50+5 45x2 30+45+3 5+50x2 ?	1/2+1/4 3/4 1/2+1/10 1/10x2 1/10x3 1/10x3 14"	qt3-chl-cpx2 qt3(chl)cp-Mo qt3-chl-cpx2 qt3-chl-cpx2 qt3-chl-cpx3 chl-cpx3 chl-(cp)zone	<.5%		176	53	90	35413	.051	.58 <.01 0X	.070	
					QFP	ND		190		45x2 30 30 30 10 25 40	1/10x2 8" 12" 1/8 3" 1/2 4"	qt3-chl-cpx2 qt3-mag-cp qq+qt3-cp carb qt3-cp(Mo) qt3-chl(cp) qt3-cp(cp)((Mo))	<.5%		186	10	85	35414	.068	.72 <.01 0X	.038	
						ND		200		5 20 5 70 25 45 20x2 80	1/2 1/2 1" 2" 2" 1/2 1/10x2 1"	qt3-chl(cp) qt3-chl-cp qt3-chl-cp qq qt3-cp qt3-chl(cp) carb x2 qt3	<.5%		195	43	95	35415	.040	.39 <.01 0X	.026	
						ND		210		20 20x2 20 15x2 20 30 20	1" 1/10x2 1/20 1/10 1/10x2 1/2 1/20	qt3-cp qt3-chl-cpx2 qt3-chl(cp) qt3-chl-cpx2 qt3-chl-cp qt3-chl-cp qt3-chl-cp	<.5%		205	60	95	35416	.028	.20 <.01 0X	.010	

GRID _____

GIBRALTAR MINES LTD.

HOLE No. B1-2
SHEET No. 4 of 8

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Sericite Zone	Remarks	Footage Blocks.	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number Cu.	Sample Number Au ~~Ag~~ oz/ton	% Cu.	% Mo.	Estimated Grade
						MINE PHASE QUARTZ DIORITE (108-280) (Saus Alt'n)	ND		220		5x2+45x2 30 10x2+45x3 45 40	1/10x4 1/8 hle-1/20x5 1/10 6"	qt3-chl-cp qt3-chl-cp qt3-chl-cp x5 qt3-chl-cp qt3	PYRITE <.5%		216	43	95	35417	.030	.21 <.01 0X	.008	
							ND		230		20 15 45x2 50 30? 45 40	1/2 18" 1/4x2 8" 6" 1/2 2"	qt3 (Mo) qt3-cp qt3-chl-cp x2 qt3-ser-chl (cp)((Mo)) qt3-ser-chl (cp) qt3-cp qt3-chl-(cp)(Mag)	<.5%		226	43	90	35418	.028	.24 <.01 0X	.004	
							ND		240		60 5 30 85 40 70 45	1/4 2" 1/10 1/4 1/4 1/8 1/4 1/4	qt3-chl (cp) qt3-chl (cp) qt3-chl (cp) qt3 qt3-chl-cp qt3-carb qt3-cp (Mo) qt3-chl (cp)			236	27	95	35419	.036	.28 <.01 0X	.016	
									250		35 30 30 45 45	1/8 1/4 1/6 1/4 1/4	qt3-chl-mag-cp qt3-carb qt3-carb qt3-cp (Mo) qt3-chl (cp)			246	73	95	35420	—	.16 <.01 0X	.002	
									260		45 45 45x3 45 45x2 30	1/8 1/8 1/10x3 6" 1/2x2 10"	qt3-chl-cp qt3-chl-carb (cp) qt3-chl-cp x3 qt3-chl-cp qt3+ qt3-chl (cp) qt3-(cp)(Mo)			256	53	98	35421	.038	.39 <.01 0X	.038	
									270		40x3 40 45x3 40x2 10+55 30x2	1/8x3 1/4 1/10x3 1/20x2 1/4x2 1/20x3	qt3-chl (cp) x3 qt3-chl-cp qt3-chl-cp x3 qt3-chl-cp x2 qt3-chl-cp x2 qt3-chl-cp x2			266	40	95	35422	.034	.29 <.01 0X	.026	
									280		30x3 50 ? 60 60 ?	1/20x3 1/2 6" 1/10 1/8 10"	qt3-chl-cp x3 qt3-Mo (+1" QSP envel. qt3-chl (cp) zone qt3-py-cp qt3-py-cp qt3-ser-cp			276	57	90	35423	—	.10 <.01 0X.	.006	

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 61-2
SHEET No. 5 of 8

Dir	Plag.	K-Spar.	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Sericite Zone	Remarks	Footage Blocks.	RQD	Estimated Core Recovery %	ASSAY RESULTS Sample Number Cu.	Ag oz/ton	% Cu.	Mo.	Estimated Grade
						Alt'n Zone (280 - 322) - saus. gone - rx texture dense, swirled, or intensely foliated - original granitic texture gone	30-40 str.		290		40 ? 40° 30	6" 12" 4' 30"	qt3-ser(py) qq-hem + carb qt3-ser-py zone of close-spaced 1/10-1/8 qt3-ser-chl-py(cp) veins in bleached rx.	6 o/o		286	27	90 95	354124	—	.13 ∠.01 0X	.004	
						- most of the rx is bleached (ser-qt3?) but fine grn. dk inclusions are also prevalent (chl-qt3?) - much fine grn py (cp)	23-40 str.		300		30x3 25-40 85+90	1/10x3 9' 1/10x2	qt3-chl-py x3 qt3-ser (chl.) py (cp) zone - sub par. sets of 1/10-1/8" qt3-chl-py-cp veinlets 70-20° qt3-chl-py-cp x2	5 o/o		291 296	40	90	354125	.051	.53 ∠.01 0X	.010	
							ND		310		50x2 45x3 50 40+80 80 30 70 70	1/8x2 1/8x3 1" 1/10x2 1/10 30° 1/8 1/10	qt3-py-(cp)x2 qt3-carb-py x3 qt3-carb-py qt3-cp x2 qt3-chl-cp qq qt3-chl-cp qt3-chl-cp	3 o/o		306	30	95	354126	.042	.34 ∠.01 0X	.006	
							5-60 Str-wx.		320		5-60 80 20x2+80x2 40 35x6 80x2	1" 1/20x4 1/8 1/20x6 1/10x2	qt3-ser-chl (py)(cp) zone qt3- qt3-chl-cp x4 qt3-chl-carb-py-cp qt3-chl-py x6 qt3-chl-py x2	2 o/o		316	50	90	354127	.034	.29 ∠.01 0X	.006	
						322 MINE PHASE Saus. Alt'n. (322 - 341)			330		35 20 40 40x2 ? 15 30	1/4 1/10 1/4 1/10x2 12" 1/2 6"	qt3-chl-carb-py (cp) qt3-carb-py qt3-py qt3-chl-py x2 qt3-ep-py zone qt3-cp qt3-ser-chl-py (cp)	1 o/o		326	50	95	354128		.17 ∠.01 0X	.004	
									340		50 40x3 50 25 50 50	1/4 1/10x3 3/8 1/8 1/4 3"	qt3 (cp) (Mo) qt3-py (cp) x3 qt3-chl-cp qt3-cp qt3 (cp)((Mo)) cp	1 o/o		336	40	85	354129		.17 ∠.01 0Y	.014	
						341 Alt'n Zone (same as 280-322) (341 - 465) plus small zones of			350		25x2 30+5 20 25 30 30+50 30 30	1/10x2 1/20+1/8 1/2 12" 12" 1"+1½ 1/6 1/20	qt3-chl-carb-cp qt3-chl-cp (vug) x2 qt3-cp qt3-cp-(Mo) + clots of Ser-Chl-cp qt3-ser (chl) - cp - Mo qt3-carb + qt3-py qt3-carb-cp qt3-chl-py	2 o/o		346	40	90	354130	.053	.69 ∠.01 0Y	.016	

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 51-2
SHEET No. 6 of 8

Plag.	K-Spar.	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Sericite Zone	Remarks	Footage Blocks.	RQD	Estimated Core Recovery %	Sample Number Cu.	Sample Number Au oz/ton	% Cu.	% Mo.	Estimated Grade
					Alt'n Zone (341 - 465)	ND		360		40 x 2 15 x 2 50 50 45 25 x 2 ?	1/20 + 1/4 1/10 x 2 1/4 1/8 7" 1/10 x 2 2"	qtz-chl-py + qtz-carb-py qtz-chl-py (cp) qtz-chl-py (cp) qtz-chl-py cp qtz-chl-py (cp) x 2 cp	1%	vuggy core	356	30	90	35431		.10 < .01 0%	.004	
						ND		370		30 60 x 3 20 + 45 20 x 2 5 50 20 + 80	1/10 1/10 x 3 1/10 x 2 1/10 x 2 1/4 1 1/2 1/10 x 2	qtz-py qtz-ser-py qtz-chl-cp qtz-chl-cp qtz-carb-chl-cp qtz-carb-py qtz-chl-py-cp	3%	vuggy core	366	40	95	35432	.034	.31 < .01 0%	.008	
						80 WK		380		20 30 80 + 30 60 x 2 80 45 ? 80	1/4 1" + 3" 1/20 + 1/8 1/4 x 2 20" 16" 1/4	qtz-chl-carb-cp qtz-chl-carb + qtz chl-cp x 2 qtz-carb-chl py (vug) x 2 banded qtz-chl-carb (py) zone qtz-chl (cp) ser zone qtz-carb	1%		376	47	90	35433	.040	.33 < .01 0%	.016	
						70 Mod		390		? 30 x 3 80 x 2 80 x 4 80 x 3 70 70 x 3	12" 1/20 x 3 2" + 3 1/20 - hle x 4 1/4 x 3 1/10 1/4 x 3	qtz-carb (vug) veins around by qtz-chl (py) x 2 qtz (ser) x 2 chl-py x 4 qtz-carb x 2 chl-cp Carb	1%		386	60	90	35434	.034	.20 < .01 0%	.016	
						80 Mod		400		80 80 45 80 80 80 x 2 35 70 70	1/20 4" 1 1/2" 1/10 2" 1/4 x 2 1/4 1/4 1/4	cp qtz (ser) qtz-cp qtz-chl-cp qtz (ser) (cp) Mo qtz ((Mo)) x 2 carb qtz-carb qtz-carb (cp) (vug)	.5%		396	67	95	35435		.16 < .01 0%	.016	
								410		? 30 x 3 80 8 45 40	8" hle x 3 3" 2" 3/8 1/20 x 3	qtz-ser chl-py x 3 QFP QFP qtz-chl-carb (py) qtz-chl-cp x 3			406 410	40	90 85	35436		.13 < .01 0%	.006	
								420		80 20 30	1" 3/4 24"	qtz-carb qtz qtz + by			416	27	95 95	35437		.10 < .01 0%	.002	

GRID _____

GIBRALTAR MINES LTD.

HOLE No. [illegible]
SHEET No. 7 of 8

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation, Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Sericite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number Cu.	Sample Number Au ~~oz/ton~~ oz/ton	% Cu.	% Mo.	Estimated Grade
						Alt'n Zone (341-465) incr. chl. (~60%)	80 wk		430		30 25 5	30" 1/8 1" 1/4	qtz + bx qtz-chl-cp qq qtz (cp)	PYRITE <.5		422	33	90	35438		.16 <.01 ox	.004	
							ND ?		440		85 25 5+50 30	1/2 3" 1/4 x2 1/2	qtz-chl-carb qtz-chl ((cp)) carb x2 qtz (cp) (vug)	<.5		432 436	73	95	35439		.11 <.01 ox	.002	
							ND ?		450		30 x2 50 x2 60+30	1/8 + 1/4 hlc x2 1/8 + 1/4	qtz-carb x2 cp x2 qtz (cp) + qtz (carb)	<.5		446	70	98	35440		.12 <.01	.002	
							ND ?		460		30 20 20 x 3 5	1" 1/2 1/10 x 3 1/2	qtz-chl (cp) qq chl ((cp)) x 3 qq + bx	<.5		456	90	100	35441	.034	.21 <.01 ox	.002	
						465 QUARTZ - SERICITE (CHLORITE) - CARB.	? Cren		470		50 10 5 ?	2" 1/2 1/4 1"	qtz (sec) (py) qq qtz-cp qtz-carb ((cp))	<.5		466	30	90	35442	.038	.32 <.01 ox	.006	
						ZONE (465-506) pale greenish grey with dk chl. in wisps and bands - most of this zone is all'd QFP	? Sl. Cren.		480		30 80 45 ?	5' 1/10 1/8 1"	qq + bx qtz-carb (vug) qtz-carb (vug) qtz (cp)	<.5		475	23	80	35443	.036	.25 <.01 ox	.026	
							? Sl. Cren		490		30 40 75	1/8 hlc hlc	qtz-chl-cp cp chl-cp	<.5	Vug. Core	485	43	90	35444		.15 <.01 ox	.012	

GRID _____ GIBRALTAR MINES LTD. HOLE No. _____ SHEET No. 8 of 8

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation-Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Sericite Zone	Remarks	Footage Blocks.	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number Cu.	Sample Number Ag oz/ton	% Cu.	% Mo.	Estimated Grade
							5-80 Crem Str		500		80 80 40 80 70 70 80 5	3/4 1" 1/2 2" 1/4 2 1/2 1/2 1/10	qt3-(cp)(Mo) qt3-ser-cp(Mo) qt3-carb qt3-Mo qt3-Mo qt3(cp)(Mo) qt3(Mo) qt3-carb-chl-Mo			495	49	85 100% ?	35446	.036	.29 L.01 0X	.050	
						EOH 500'	5-80 Crem Str				~80	hle	chl-Mo			500		(50)					

Gary O. Byworth

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-3
SHEET No. 1 of 5

LOCATION: POLLY II
DATE COLLARED: January 10, 1981
DATE COMPLETED: January 11, 1981
BEARING: 0°
LENGTH: 341'
DIP: -90°
LATITUDE: 49,144.78
DEPARTURE: 51,213.75
ELEVATION: 3,907.04
CORE SIZE: N.Q. wireline
SCALE OF LOG: 1" = 10'
REMARKS: Assay for Ox Cu as well - Hole abandoned
LOGGED BY: MRS
DATE: Jan. 12-13, 1981

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Sericite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number Cu.	Sample Number Mo.	% Cu.	% Mo.	Estimated Grade
						Cased to 50'			50														
						O.B. to 117'			60							56							
						- Cored glacial till & boulders.			70							66							
									80							76							
									90							86							
									100							96							

FORM 130-L.S.D. 1

GRID _____

GIBRALTAR MINES LTD.

HOLE No. [illegible]
SHEET No. 2 of 5

Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	% Py	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number Cu.	Sample Number Ag oz/ton	% Cu.	% Mo.	Estimated Grade
										0						106							
									110														
						end O.B.				0						116		117					
					5-6	117-119 Bleached Qtz. Pb?	Not Defined to 80° Wk		120		80° 80°	hle hle	chl-lim lim	.5%			33%						.05%
					5	119- MINE PHASE QUARTZ DIORITE -119-166' -Sauc Alt^n	80° Wk		130		30° 0° 15° 10° 30°x2 15°	hle hle hle hle 1/20x2 1/16	lim. lim lim. lim lim x2 qtz-lim	.5%	LIMONITE ZONE	126	20%	98%	35376	.034	.22/.18 ox	.010	.06%
					5		80° Wk		140		10 20° 60° 80° x2 60° 80° x2 20°	1/10° 1 hle x2 hle 1/2x2 1/8	qtz-chl-lim-<py> qtz-chl-lim-mal lim-mal x2 lim-mal qtz-chl-lim-<py>-<<mal>> x2 qtz-py-lim-cu-pitch	.8%		136	30%	98%	35377		.19/.14 ox	.006	.30%
					5		80° Mod to Not Defined		150		80° 75 80° 50x2 80° 20° 80	1/2 hle hle 1/8x2 hle hle 3	qtz-lim lim lim qtz-chl-lim x2 lim-mal lim-Cu-pitch qtz-chl-pauc	.6%	MODERATE to Wek.	146	41%	98%	35378		.16/.12 ox	.004	.10%
					5		80-85° Wk to Mod.		160		85° 70° 30° 30° 20x2 60°x2 80°x3	3 1/20 1/4 hle hle x2 hle x2 hle x3	qtz-chl-lim-mal Cu-pitch qtz-lim Cu-pitch lim-cu-pitch Cu-pitch-<mal> x2 Cu-pitch-<mal> x3	.7%	Vuggy core in places	156	20%	98%	35379	.024	.24/.21 ox	.002	.25%
					5-6	166-173' Qtz-rich phase			170		70/30° 0° 30x3 30° 75° 80° 95°	1/2 hle hle x3 hle hle 12" hle	qtz-chl-lim-vugs lim Cu-pitch x3 lim-mal lim-mal lim-<mal> ep blotch qtz-lim Cu-pitch	.7%		166	55%	98%	35380	.024	.21/.17 ox	.002	.25%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-3
SHEET No. 3 of 5

Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	% Py	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number Cu.	Ag oz/ton	% Cu.	Mo.	Estimated Grade
					5-6	wep. blotchy & frag. Grading to 173-181 Fine to med gr pock - loss sauc (Not typical MINE PHASE)	80° wk.		180	50°x2 30° 70° 30+80x2 90° 30x2 70x2	1/4 x2 lee 1/8 1/2 x3 lee lee x2 1x2	qtz-chl-cp-lim x2 lim-mal qtz-sauc-lim-a-py qtz-chl-lim lim-mal lim-mal x2 qtz-lim	.7%		176	33%	95%	35381		.19/.16 ox	.002	.19%
					4-5	181-214 Qtz-chl-sir Zone. Abund. qtz-veining	20° 80 Str.		190	200 ? 80 70° x2 20° 80° 80°	lee 24" 1/20 lee x2 lee 1 1/2	Slim Broken-core-<gauge> - lim - <mal> lim - mal. lim - <mal> x2 lim - Cu pitch - <mal> qtz - <cp> - <py> - <lim> qtz - cp - <py> - <lim>	.8%	Vuggy } Abund qtz veining	186	0%	85%	35382	.026	.35/.31 ox	.004	.20%
					2-6		Not Defined 20° 80° Mod.		200	40+60° 60° 60° 60° 5° ?	lee x2 1 6 36" 1/2 lee 24"	lim x2 qtz - lim - vuggy Broken-core - lim stain qtz vein - vuggy - badly broken - lim stain <mal>. qtz - cp - lim Slim Broken core - qtz vein - gauge - lim - <mal>	.9%	LIMONITE ALTN. Mod to Ex Alt.	196	6%	75% 78%	35383	.017	.39/.33 ox	.004	.22%
					4-6		N 50° wk to Mod.		210	40x3 30+45 80° x2 5° 45x2	24" lee x3 lee x2 lee x2 lee lee x2	Broken core - lim - <mal> qtz - lim - mal lim + Cu-pitch x2 lim - <mal> x2 lim - Cu-pitch lim - mal x2	.7%		202 206	12%	98%	35384	.032	.44/.42 ox.	.006	.18
					5-6	214-269' Sauc Alt.n 216-218 - Minor dk alt zone	70° wk		220	30° x2 10° x2 60x2 5° 80° 70 x4	lee x2 1/16 lee x2 1/8 1/4 1/8 x4	lim - mal x2 qtz - lim - chl - vugs. qtz - chl - lim - mal. qtz - lim. - vugs. qtz - lim - vugs. qtz - chl - <mal> x4	.6%	V. vuggy Carb.	214	12%	68% 37%	35385	.030	.21/.17 ox	.004	.16%
					5-6		60° 80° V. wk.		230	30° 10° 60° 70° 30°	1/16 hle 12" 1/2 1/20 1/2	qtz - lim lim - mal - Native Cu qtz vein broken - lim stain qtz - cp - lim qtz - chl - cp qtz - qtz - sauc - finely disseminated <cp>	.7%	.225' Tube didn't lock. ground core.	225	20%	85%	35386	.028	.24/.06 ox	.010	.20%
					5-6		80° V. wk.		240	60x2 60x2 120° x2 20 25x2 15° 15°	lee x2 1/20 x2 lee x2 lee lee x2 lee 1/20	lim x2 qtz - chl - lim - <py> x2 qtz - chl - py - lim x2 lim qtz - chl - py - <lim> lim qtz - <cp>	.1%		235	18%	93%	35387	.024	.20/.02 ox	.006	.09%

GRID _____ GIBRALTAR MINES LTD. HOLE No. 87-5 SHEET No. 4 of 5

Oz.	Pb.	K-Spar.	Mafic	Textures	Hardness	Rock Types & Alteration	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	% Py	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number Cu.	Sample Number Ag oz/ton	% Cu.	% Mo.	Estimated Grade
					5-6		80° vk		250	15° 25° 25° 25° 70° 30° 25x3	1/4 lle 1/20 1/20 lle lle lle x3		qtz-chl-cp-Native Cu-lim. lim. qtz-chl-cp-tetrahedrite? qtz-chl-cp Native Cu. " " qtz-chl-cp x3	.6%	cp veining	245	42%	91%	35388	.24 .024 .01	.24 .02 0X	.018	.20%
					5-6		85° WK		260	5° 15° 70° 85° 15° 30°	1/16 hle hle hle 1/16 8"		qtz-chl-cp-Native Cu lim-<cp> Native Cu> <tetr ?> lim Vuggy qtz qtz-chl-<cp> Broken qtz vein-lim	.7%	WK.	255	25%	80%	35389	.026	.38 .01 0X	.006	.11%
					5-6	269-309	85° WK		270	5 10° 4 20° 1 50 ? 1 5x2 20° x2	1/4 lle 4 lle 1/4 1/2 1/20 x2 lle x2		qtz-chl-<cp> lim-<<cp>> <Native Cu> Broken core-qtz-vein-lim lim Native Cu qtz-chl-<cp> <tetr?> qtz-lim-Native Cu-Broken core qtz-chl-cp x2 Native Cu x2	.7%		261 266	11%	90% 70%	35390	.026	.73 .01 0X	.010	.26%
					5-6	DK Alt.- -not much increase of chl. -only minor weak sericitic alt.-	5° 80° WK		280	25° 10° 10° x2 60 5°	1/2 1/8 8" 1/20 x2 2 1/2		qtz-chl-<cp> <tetr?> <Native Cu> qtz-cp-cc Broken Core qtz-chl x2 Vuggy qtz-chl-<cp> Vuggy qtz-chl-<cp>	1%	V. Vuggy Core	273	15%	70%	35391	.026	.40 .01 0X	.010	.26%
					5		80° WK		290	70° 7 80 80° 7 30°	1/2 8 1/16 1/20 6 2		qtz-carb Broken core-lim chl-qtz-py qtz-carb-chl-cp-py gouge-broken core qtz	1%		283 288	18%	42%	35392	.021	.26 .01 0X	.018	.20%
					5-6		5 80° Mod. folded		300	80° 21° 80° 25° 20° 80° 80°	1 1/16 2 1/20 12 2 1/2		qtz-carb-chl qtz-carb-chl-cp qtz-carb-<chl>-<mo> gouge Broken core-gouge-<cp>-<cc> qtz-chl-carb-<cp> qtz-chl-carb	7%		296	25%	68% 78%	35393	.030	.32 <.01 0X	.022	.24%
					5-6		15° 80° Mod.		310	25° 20° 80° 10° 5° 80° 5	1/20 lle 1/16 1/8 1/8 3 lle		qtz-chl-cp-carb qtz-carb qtz-chl-py qtz-carb-chl-cp qtz-chl-carb-cp qtz-chl-carb gouge-cp	1%		301 306	18%	70%	35394	.028	.23 <.01 0X	.014	.15%

ASSAY RESULTS

GRID _____

GIBRALTAR MINES LTD.

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

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar	Mafic	Textures	Hardness		L to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins L to Core Axis	Width of Vein	Mineralization	% Sulphides Py	Remarks	Footage Blocks.	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	Cu.	Ag oz/ton	% Cu.	Mo.	Estimated Grade
						309-389 Weak Sericite Alt^n	80° Mod			1	0°	Nle	chl. gouge					85%						
										1	50	1/2	qtz-chl-carb-cp-cc								.34			
					5-6					1	45 x2	1/4+1/8	qtz-chl-cp-carb			316	24%		35395	.032		.100	.45%
										1	30	1/8	qtz-carb-chl-cp	.8%							<.01		
										1	0°	1/2	qtz-chl-carb-cp								0X		
										1	5°	3	qtz-<carb>										
									320	1	5°	1	qtz-chl-carb-cp										
										1	70°	2	qtz-chl-carb-cp-py<>					92%					
							80			1	80 x 6	1/20 x 5	qtz-chl-carb-sph. x^n								.18		
					5-6					1	25°	1/8	qtz-carb-chl-cp<>	.9%		326	32%		35396			.018	.25%
										1	5°	1/8	qtz-carb-chl-cp<>								.01		
							Mod			1	60°	1/20	qtz-carb-chl-cp-hem								0X		
										1	10°	1/20	qtz-carb-chl-cp-hem										
									330	1	30°	Nle	qtz-chl-cp<-hem>										
											80°	12	Quartz-fine gr. banded S-i Chl Alt^n					88%			.16		
							80°-85°			1	30° x 2	1/2+1/8	qtz-chl-carb-cp-py<cp>			336	45%		35397		.01	.014	.20%
					5-6		Mod			1	60°	1/2	qtz-chl-carb-cp	1%							0X		
										1	10°	Nle	hem					60%					
										1	30 x 2	Nle x 2	chl-carb-hem x 2										
						339-341 Fault			340			24"	Broken core & gouges			341	0%						
									341														
						End of Hole @ 341																	

M. R. Schaumberger

GRID ____

GIBRALTAR MINES LTD.

HOLE No. 81-16
SHEET No. 1 of 7

LOCATION: Pollyanna
DATE COLLARED: April 18 1981
DATE COMPLETED: April 20, 1981
BEARING: 0°
LENGTH: 491'
DIP: -90°
LATITUDE: 50,097.65 N
DEPARTURE: 53,727.61 E
ELEVATION: 4,087.10'
CORE SIZE: N.Q.W.
SCALE OF LOG: 1" = 10'
REMARKS:
LOGGED BY: G.D.B.
DATE: April 24 1981

Oil	Plag	K-Spar	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Sulfide Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number Cu.	Sample Number Mo.	% Cu.	% Mo.	Estimated Grade
						Casing to 50'			50					PYRITE	26-50 is rusty rx, qq, bx and some till? (chert pebbles) — could be a fault but we are assuming it is overburden.								
						MINE PHASE QUARTZ DIORITE (50-116)	ND		60		55 40 35x3+25x4 25x3 50x2 50 25x3	1/8 1/8 1/10-1/20x7 1/10x3 1/10x2 1/10 1/8-1/10x2	qtz-chl-py-lim qtz-chl-py-lim qtz-chl-lim x7 lim x7 qtz-py x2 qtz-py qtz-chl-py x3	1%	lim to 80' (py > lim) weak supergene zone 80 to 100'	54	37	85 90	54333		.10	<.02	.05
						Saus. Alt'n (50-116)	ND		70		40x3 15 45x5+40x3 40x3+50 40x2+60 40x3 45x8 45	1/8x3 1/4 1/10x8 1/10x4 1/8x3 1/10x3 1/10-1/20x8 1/2"+1/10x2	qtz-chl-py-lim x2 qtz-chl-py-lim qtz-chl-py-lim x8 qtz-chl-py x4 qtz-chl-py-lim x3 qtz-chl-py x3 qtz-chl-py x8 qtz-chl-cp-py-lim	3%		63 66	40	85	54334		.12	.02	.05
							ND		80		50x3 35x2 45x3 80x3 50 80+10 75x2+10	1/10x3 1/10x3 1/4x3 1/20x3 1/4 1/4+1/10 1/10x3	qtz-chl-py x3 lim x3 qtz-py lim x3 qtz-chl. py qtz-chl-py x2 qtz-chl-py	2%		76	53		54335		.15	.02	.05
3095						inter cp as zones + clots to 50% cp.	ND		90		35x2 50+ 60x5+5x4 40 60+10 45x4	1/10x2 2" 1/8-1/20x9 3/4 1/10x2 1/8x4	qtz-chl-py x2 qq qtz (chl) py x9 qtz-py (cc) qtz-py x2 qtz-py-cc x4	2%		86	47	85 90	54336		.14	T	.10
							ND		100		40x6 5x3 40x10 30x6 40 5	1/20x6 1/20x3 1/20x10 1/10x6 1/10 1/10	qtz-py (cc) qtz-py x3 qtz-py x10 (cc) qtz-py (cc) x6 qtz-chl-py qtz-py	3%		91 97	37	90	54337		.11	.04	.10

FORM 130-L&D. 1

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-16
SHEET No. 2 of 7

ROCK TYPES & ALTERATION: Qtz	Plag	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						QFP	ND		110		80? 70 70 x 2 ? 15 15 x 7 ? 20?	12" 1/4 1/20 1/10 x 2 1/2" 1/2 1/10 x 4 3'	qq + bx qtz - py (cp)(cc) vug qtz - chl - py qtz - py x 2 qq + bx qtz - py ((cp)) qtz - py (cp) x 4 qq + bx	2 o/o		106	37	85 75	54338	.06	.02		.05
						116 LEUCOCRATIC PHASE (116-133)	ND		120		45+23 45x3 + 25x4 45 20x4 30	1/4 + 1/8 1/10 x 7 1/10 hlex 4 1/2	qtz - py (cp) qtz - chl - py qtz - chl - py py x 4 qtz - ser - py	1 o/o	1st str. cp vein	111 116	30	70 70	54339	.08	.02		.10
						pale grey aphanitic rx	ND		130		15 x 2 40 x 3 20?	1" x 2 1/20 x 3 2"	qtz - py x 2 qtz - py x 3 qtz - py qq + bx (- py frags)	1 o/o		123 129	10	70	54340	.06	.04		.10
						133 MINE PHASE (Saus. Alt'n) (133'-172)	ND		140		85+20x3 45 10 20 45+55 50?	1" + 1/10 x 3 1/2 3/5 1/10 1/10 x 2 10"	qtz - chl - py (cp)(cc) qtz - py qtz - py qtz chl - py qtz - chl - py x 2 qtz - py	3 o/o		133 140	40	75 80	54341	.11	.04		.08
							ND		150		40x3 + 30x7 50x3 40x2 5x2 45x3 60x2 50x4	1/10 - 1/20 x 10 1/10 x 3 1/8 x 2 1/20 x 2 1/20 x 3 1/2 x 2 1/4 x 4 4'	qtz - py x 10 qtz - chl - py x 3 qtz - chl - py x 2 qtz - chl - py x 2 qtz - chl - py x 3 qtz - py (cp) x 2 qtz - chl - py x 4 qtz - cp ((py)) (poss. altd QFP)	3 1/2 o/o		146	57	85	54342	.05	.02		.08
							ND		160		30 70 20 50+30 60 25 40 45 70	1/2 1" 1/4 1/10 x 2 1/2 1" 1/4 1" 1"	qtz - chl - py qtz - chl - py qtz - chl - py qtz - chl - py x 2 qtz - cp qtz - py qtz - py qtz - py qtz - cp (Mo)	3 o/o		156	27	85	54310	.17	.010		.10
							ND		170		70 45 x 2 80 80 x 3 80 55 - 70 x 5 80 70	1/2 1/8 x 2 1 1/2" 1/4 + 1" x 2 5-10 x 2 1/2 1/8 x 5 2" 6"	qtz - py ((Mo)) qtz - chl - py qtz - chl - py (cp) qtz - chl - py x 3 qtz - chl - py x 2 qtz - py (Mo) qtz - chl - py x 5 qtz - ser - py (cp) qtz - ser - py (cp)	3 o/o		166	57	90	54311	.15	.010		.10

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-16
SHEET No. 3 of 7

Ore	Plag.	K-Spar	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
						172					60x2+5	1/4x3	qtz-chl-py x3										
						LEUCOCRATIC ZONE (172-202) contacts are ep-chl rich (~50%) but rx is identified by its fine grn. texture. - center of zone is a pale grey qtz-porp. -	ND		180		40 x2 50 60 x3 20+45 60+50 60x3 60x2	1/8 x2 2" 1/4+1/10x2 1/4x2 1/4x2 1/20 x3 1/8x2	qtz-cp-(Mo) x2 qtz-chl (cp) vug. qtz-chl-py x3 qtz-py (cp) x2 qtz-chl-py x2 qtz-chl-py x3 qtz-chl-py x2	1o/o		176	63	90	54312	.19	.030		.08
							ND		190		60 60 45 x 15 40 50x3 50-30 x 15 60	1/4 1/4 1/20 x 15 1/4 1/8x3 hle - 1/20 x 15 1/4	qtz-py qtz-py qtz-py (cp) x 15 qtz-py-cp-Mo qtz (cp) x 3 qtz (py)(cp)((Mo)) x 15 qtz-py	2o/o	str. hle - 1/20 stkwk qtz-py (cp) veins - only larger veins are shown. - most veins have qtz-ser halos.	186	57	95	54313	.14	.012		.12
							ND		200		70 60 x3 50 50 60x3 60+50 80 50	1/10 1/20 1/10 1/8 1/20x3 1/4+1/8 1/4 1/4	qtz-py qtz-py (+1/8" qtz-ser envel) qtz-py (cp)(Mo) qtz-(Mo) qtz-py (cp) x3 qtz-py (cp) x2 qtz-py qtz-ser-py	1o/o		196	53	90 85	54314	.14	.010		.10
						202					50 45+25 60 x3 20 50 70 60 x3	1/4 1/8x2 1/10x3 1/20 1/20+1/2 1/20+1/4x2	qtz-chl-py-cp qtz-chl-py (cp) x2 qtz-chl-py (cp) x3 qtz-chl-py qtz-chl-py x2 qtz-chl-py x3	2o/o		205	50		54315	.16	.006		.08
						MINE PHASE (Sous. Alt'n) (202'-491')	ND		210		50 60 x 2 80x6+20x2 80 40x2 30 70+60 50x2	3/4 1/20+1/8 1/20-1/10+8 1/2 1/10x2 3" 1/4x2 1/8x2	qtz-chl-py (cp) qtz-chl-py (cp) x2 qtz-chl-py x 8 qtz-chl-py qtz-chl-py-cp x2 qtz qtz-chl-py x2 qtz-chl-py x2	2o/o		215	43	90	54316	.18	.010		.10
							ND		220		70 80 80+5 5 45 80 30x2 25x2	1" 1/2 1/8+1/4 1/4 10" 1/2 1/10x2 1/10x2	qtz-chl-py qtz-cp qtz-chl-cp x2 qtz-chl-py qtz-chl-cp (Mo) zone qtz-chl-cp qtz-chl-cp x2 qtz-chl-cp x2	1o/o		225	37	80 95	54317	.63	.026		.30
							ND		240		50 70 50 60 80 x 2 80 50	3" hle 1/2 1/2 2" x 2 3" 1/8	qtz-chl-cp zone py-Mo qtz-chl-py qtz ((cp)) chl-cp + qtz-chl (vug) chl-py qtz-chl-py	1o/o		235	70		54318	.36	.024		.15

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 61-16
SHEET No. 4 of 7

Rock Types & Alteration: Qtz.	Plag.	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	Graphic Log: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Assay Results: Sample Number	% Cu	% Mo		Estimated Grade
						MINE PHASE (Squs. Alt'n) (202'-491')	ND		250		50x2 60 70 70 70 80 5	1/10 1/8 2" 3" 1/4 1/20	qtz-chl-cp x2 qtz-chl-py-cp qtz chl-(cp) qtz-carb.-cp qtz-chl-cp qtz-chl-(cp)	.5 o/o		245	37	85 85	54318 54319 (2-15' samples)	.36	.024		.20
							ND		260		80 50 60 50x2 60x2 60x2 40x2 + 60x2 ? 70	1" 1/10 2" 1/20x2 1/10x2 1/4x2 1/4x2 + 1/20x 8" "	qtz-chl-cp-py-cp qtz-chl-py (cp) cp cp x2 qtz-cp x2 qtz (cp) x2 qtz (cp) x2 + chl-cp x2 cp qtz-cp (Mo)	.5 o/o		255	30	90	54319 (2-15' samples)	.36	.024		.25
							ND		270		40x2 80x2 70 70 70 70x4 30+80 20+80x2	1/20x2 1/8x2 7" hle 1/10 1/20x3 + 1/4 1/20x2 1" + 1/20x2 10"	chl (cp) x2 qtz (cp) + qtz-qg-Mo qtz-chl-ser-py (cp) zone Mo qtz-chl-cp qtz-chl-cp x3 + qtz (cp) qtz-chl-cp x2 qtz (cp) + qtz-chl (cp) x2 qtz-chl-cp	.5 o/o		265/5	40	90	54320	.71	.030		.50
							ND		280		60 25 70 30 30 45 80x3 20 30 x2	1/4 1/10 1/8 1/4 1/10 hlex3 1/4 1/20x2	qtz-chl-cp qtz-chl-cp qtz-chl-cp-Mo qtz (cp) qtz (cp) qtz-chl (cp) chl-cp (Mo) x3 qtz-carb qtz-chl (cp) x2	<.5 o/o		276	47		54321	.39	.020		.15
						Fault Zone 288-295'	ND		290		? 70 5 70 80 60 x2 40 x5 30	12" 3" 1/2 1/2 1/4 1/2 + 1" 1/4 + 1/2 3"	qtz-cp-chl qtz-chl-cp zone qtz (cp) qtz-chl-(cp) qtz (cp) qtz (cp) x2 qtz-chl-cp + qtz-carb qtz-cp	<.5 o/o		286	7	90 80	54322	.68	.028		.15
							ND		300		60 x2 50 40 70 x3	1/10 x2 5/8 3/8 1/20 x3	qtz-chl qtz qtz-chl-py qtz-chl-cp	.5 o/o		291 296	17	70	54323	.30	.012		.12
							ND		310		40 70 45 40+80 30 30 30 20	3/8 hle 1/4 1/10 x2 1/6 1/4 12" 1/10 hle	qtz chl-cp qtz (cp) chl-cp x2 qtz qtz-chl bx (qtz-frags) qtz-chl-(py-cp) chl-cp	<.5 o/o		306	50	85	54324	.08	004		10

GRID _____

GIBRALTAR MINES LTD.

HOLE No. BI-16
SHEET No. 5 of 7

ROCK TYPES & ALTERATION: Qtz.	Plag	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						MINE PHASE (Saus. Alt'n) (202 - 491')	ND		320		45 x 2 50 + 60 + 70 50 30 30	1/4 + 1/8 1/4 x 3 1/10 1/8 1/10	qtz + qtz-chl qtz x 3 qtz-chl-mag qtz-chl qtz-chl-cp	<.5%		314	50	85	54325	.13	.002		.08
							ND		330		35 x 2 25 30 x 2 55 40 x 3 60 30 x 2 10 x 2	1/10 1/4 1/10 x 3 1/10 1/2 - 3/4 x 3 2 1/2 3" + 1/2 1/10 x 2	qtz-chl (cp) x 2 qtz-chl (vug) qtz-chl x 2 qtz-carb qtz qtz (carb) qtz-chl + qtz qtz-chl x 2	<.5%		324	27	90 85	54260	.08	.004		.05
							ND		340		70 x 2 20 70 x 2 + 5 70 x 3 30 x 2 40 5 35	1/2 x 2 1/2 1/10 - 1/8 x 3 1/10 x 3 1/4 x 2 1/4 1/8 1"	qtz qtz qtz-chl x 3 qtz-chl (cp) x 3 qtz x 2 qtz qtz (cp) - chl qtz	<.5%		333	50	90	54261	.07	.002		.05
							ND		350		70 x 2 + 80 + 0 30 30 x 3 ?	1/10 x 4 1/4 1/10 x 3 7'	qtz-chl (cp) x 3 + qtz qtz-chl-cp qtz-chl x 2 zone of chl-ep-qtz alt'n + several 1/8", 80° chl-mag veinlets	<.5%		343	27	85	54262	.13	.004		.10
							ND		360		60 x 2 25 20 80 50 ? 5 x 2 30	1/10 x 3 3" 1" 1/2 8" 1/10 x 2 20	qtz-chl x 3 qtz-chl (py)(cp) zone qtz-chl qtz-chl (cp) qtz-chl-cp (vug) qtz-chl-cp x 2 qtz	<.5%		352 358	10	85	54263	.17	.002		.15
							ND		370		20 5 + 30 x 2 ? 80 30 x 4 20	3" 1/10 x 3 10" 2" 1/10 x 4 1/4	qtz-carb-qq-bx qtz-chl-cp x 3 qtz-ep-chl zone qq qtz-chl x 4 qq	<.5%		365 369	20	80 90	54264	.09	.004		.10
							ND		380		40 5	10' 1" 1/2	qtz-chl-ep zone (minor cp in chl-rich zones) qtz-chl-vug qtz-chl	<.5%		379	23	85	54265	.05	.004		.10

GRID _____

GIBRALTAR MINES LTD.

SHEET No. 6 of 7

ROCK TYPES & ALTERATION: Ore	Plag	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						MINE PHASE (Saus. Alt'n) (202'-491')	ND		390		5x4 30x3 20 20 20x2 30	1/10x4 1/4x3 1/4 1/2 1/4 + 3" 1/10	qz x4 qtz-chl x2 qtz-chl (cp) qtz-chl-ep (cp) qtz-chl-py ((cp)) x2 qtz-chl	<.5		389/5	23	75	59266	.03	.002		.08
							ND		400		80 30 30 5x2 30 30 30 30	8" 1/2 1/4 1/10 x2 10" 1/10 >" 1/10 1/2-1/4	qtz-cp-chl zone qtz-chl-carb-cp qz-hem qtz-chl + qtz qz+bx qtz-chl-cp chl-cp qtz-chl. qtz	<.5		397	43	85	59267	.07	.002		.05
							ND		410		30?	7'	qtz-chl-(py) zone (highly fragmented)	.5%		404 405	27	80 90 90	59268	.07	.002		.05
							ND		420		? 45 ? ?	3' 1" 4'	qz (bx) qtz-chl bx + minor (6") qz zones and hem.	<.5%		412 417	10	90	59269	.02	.002		.05
							ND		430		30+5+20 5-20	1/2-1" x3 1/2+1/8 6"	qtz x3 qtz x2 qz	<.5		425	13	75 80	59270	.02	.002		.05
							70 st+		440		45 45x2 80 40?	1/4 1/2+2" 1/4 5'	qtz qtz x2 qtz-chl qz+bx (carb)	<.5		432 436 440	27	85 50	59271	.03	.004		.05
							70 wk		450		60 30 80 45 70x2 5+80	3' 3" 1/10 1/4 1/8x2 1/4x2	qtz-chl-ep qz+bx qtz qtz qtz qtz x2	<.5		446	30	90	59272	.03	.004		.05

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-16
SHEET No. 7 of 7

ROCK TYPES & ALTERATION: Qtz.	Plag	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						MINE PHASE (Saus. Alt'n) (202'-491')	ND		460		70x2 80 70x2 70 70	1/10x2 1/8 1/4x2 2" 1/4	qtz-chl x2 qtz-chl-cp qtz x2 qtz-chl-py chl	<.5		454 460	23	80 85	54273	.03	.002		.05
							ND		470		60x4 55 45 45 60 80x2	3" 1/8-1/10 x 4 1/8 1/4 10" 9" 1/2x2	QFP? (dirty qtz?) qtz-chl (cp)(Mo) qtz-cp-mo qtz-chl-py QFP (? dirty qtz?) qtz-chl (py) qtz	<.5		466	27	80 85	54274	.04	.006		.05
							ND		480		80 10 70 60 70x3 40x2 30x3 40x2 40	4" 1/4 2" 1/4 1/4x3 1/4x2 1/8x3 1/8x2 1/6x2	qtz qtz-chl-py-cp qtz qtz qtz-chl x3 qtz-chl-py (cp) x2 qtz-chl (py) x3 qtz-chl-py x2 qtz x2	<.5		474 478	17	90	54275	.04	.00[illegible]		.03
							ND		490		45 x 5 45 x 2 45 40 45 x 3 40 70+10 40 70	1/10 x 5 1" x 2 2" 1/4 1/10 x 3 1/10 2"+1" 1" 1/2	qtz-chl (cp) x 5 qtz x 2 qtz qtz-chl-cp qtz-chl (cp) x 3 qtz-chl-py qtz x2 qtz-py qtz-py	<.5		486	60	90 90	54230	.03	.004		.10
						EOH 491'										491							

Gary D. Bysouth

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-17
SHEET No. 1 of 8

LOCATION _____
DATE COLLARED April 20, 1981
DATE COMPLETED April 22, 1981

BEARING 0°
LENGTH 496'
DIP -90°

LATITUDE 49,981.50
DEPARTURE 54,173.38
ELEVATION 4,108.78

CORE SIZE N.Q. wireline
SCALE OF LOG 1" = 10'
REMARKS _____

LOGGED BY M.R.S.
DATE April 23-27, 1981

OX. DEPTH 60'
SUP. DEPTH —

ROCK TYPES & ALTERATION: Olz.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	REMARKS	Footage Blocks.	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						Cased to 20'14"			0 0 0 0 0 0 20		O.B.												
		4085				MINE PHASE QUARTZ DIORITE - sauc. alt'd. (20' - 170')	80° v.wk to Not Defined.		30	1	0	hle	lim.	0%	Badly broken core & rubble. Sl. bleached core Str. lim zone. Many lim. fractures	24 28	0%	38% 75%	54326	.05	<.02		.03
							80-85° v.wk to Not Defined		40	1 30 x 3 1 0° 1 10° x 2 1 0°	hle x3 hle hle x2 1/2	lim x3 lim lim x 2 qtz - sauc	0%	Bleached. Str. lim zone. Many lim. fractures. Broken core.	325 38	15%	56% 91%	54327	.04	.02		.03
							80° v. wk. to Not Defined		50	1 70 1 0° 1 60 x 2 1 60 x	1/16 hle 1/4 x 2 hle x	lim - <gouge> lim. gouge - lim x2 lim x	0%	Many limonitic fractures. Minor manganese stain.	45	15%	81% 58%	54328	.05	.02		.02
							Not Defined		60	1 30° x 1 80 1 60° 1 80°	hle x 6" 1" 1/2	lim x gouge & brecciated qtz - pp dyke - lim qtz - chl - py dissem <py>	.5%	Fairly qtz rich. Badly broken core. End limonite 60'	51 54 56 58	0%	75% 75% 60%	54329	.06	<.02		.02
							45° mod to st. to 80° v. wk.		70	1 60° 1 5° 80° 1 25° 1 5° x 3 1 5° x 3	1/20 hle 1 1/16 1/20 x 2 hle x 3	qtz - carb - chl - py carb gouge qtz pp dyke qtz - chl - carb - py qtz - chl - py x 3 carb x 3	1%	Sl. darkin chloritic zone	63	53%	52% 91%	54330	.07	<.02		.03

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-17
SHEET No. 2 of 8

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks.	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							70-80° WK		80		50 x 2 70 x 3 30° 35 x 2 15 x 3 10° 10°	1/20 x 2 hle x 3 1/4 3, + 2 (1/16 x 2) + 1/8 1/8 1	qtz-chl-py x 2 qtz-chl-py x 3 qtz-ep-carb-py qtz-pp-dy ks qtz-py-chl-carb qtz-py qtz-chl-ep.	2.5%	cross-cut by fract. cont. py. w/ alt^n envel.	74	60%	95%	54331	.07	.02		.05%
							Not Defined		90		30° 70° 50° x 3 60° 60 x 2 25°	1 1/4 1/20 + 1/16 + 1/2 1/2 1/16 x 2 1	} qtz-pp qtz-chl-py x 3 qtz-carb-pied. py qtz-py x 2 Broken core - (gouge) carb.	2½%	alt^n envel.	84	65%	72%	54332	.05	<.02		.05%
							Not Defined		100		30° 60° 60° 5° x 2 70° 50° 10°	1/4 1/2 1/10 1/16 x 2 1/20 3/4 1/16	qtz-ep-pied (py) qtz vein - (chl) qtz-chl-py qtz-chl-py-(carb) x 2 qtz-chl (cp) qtz-pp dyke. qtz-chl-py	2½%		93	45%	88%	54343	.05	<.02		.10%
							75° WK Not Defined		110		— 5° x 2 70° + 40° 80 x 2 60° x 2 5° + 30°	7" hle x 2 1/10 + 1/20 1/4 x 2 1/16 x 2 1/16 x 2	Broken core (carb & chl) along fracture planes. carbonate x 2 chl-carb-py x 2 qtz pp dyke qtz-chl-per-py x 2 qtz-chl-py x 2	3%		103 106	75%	95%	54344	.06	.02		.05%
							Not Defined		120		25° 80 x 3 20° x 4 35° — 10° 30°	hle hle x 3 1/20 x 4 1 1/4" 15" 1/8 1	qtz-chl-py-(cp) qtz-chl-py (qtz-ep x 2) + (qtz-chl-py x 2) qtz-pp Broken core - calcareous fractures. qtz-per-chl-pi qtz-chl-pied-py-lt	3%	faulted into 3 separate segments. } Qtz-pp dyke	116	66%	93%	54345	.12	<.02		.08%
							Not Defined		130		45 x 10 10° 30 x 3 60° 55°	1/16 x 10 hle 1/20 x 3 hle 1/2"	qtz-ep-pied-py x 10 chl-py qtz-chl-py x 3 chl-per-py qtz-pp	2½%	zones around these fractures are richer in chl.	126	80%	98%	54346	.21	.004		.05%
							Not Defined		140		80° x 2 80° x 2 85° 70° 75°	2" + 1/2" 1/20 x 2 1/2 hle 6	qtz-per-py-chl x 2 qtz-per-py qtz-chl-carb-py (gouge) qtz-chl-(cp). qtz-per-(chl) w/ py-(cp)	5%		136	30%	90% 85%	54347	.12	.02		.15%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-11
SHEET No. 3 of 8

Rock Types & Alteration: Qtz	Plag	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	Graphic Log: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD %	Estimated Core Recovery %	Assay Results: Sample Number	% Cu	% Mo		Estimated Grade
							Not Defined		150		60 x 2	1 + 1/2	qtz-ser-chl> -py x2			143	37%	85%	54348	.14	.006		.05%
												6'	Broken core & gauge	3%									
											60°	6"	qtz-ep-<chl>-carb.			146		85%					
											40 x 2	1/16 x 2	qtz-ser-chl-py-<carb>										
							80° WK		160			2'	Broken core & gauge.			153	47	90	54349	.34	.010		.12%
											70°	1/4"	qtz-vein-<chl> & <py>										
											80°	12"	qtz-pp. dy Ke	3%									
											60 x 2	1/16 + 1/8	qtz-chl-ser-py										
												12"	rubble. 99.			158							
											30 x 6	1/16 x 6	qtz-chl-ser-py-<cp> x6										
							N.1 Defined		170		50°	1/8	qtz-ser-cp-py			164	20	80	54350	.12	.010		.18%
											70°	1/4	qtz-cp.										
												6"	rubble-99.	3 1/2%									
											60°	15"	qtz-ser-carb-chl-py-<cp>										
												2'	Broken core - carb. along fractures.					70					
											70°	1/16	qtz-chl-py-<cp>										
											30°	1/16	qtz-ser-carb-py-<cp>										
										170 - 196 Alternating bands of some alt^n & chl alt^n	60°	5"	qtz-chl-carb-py-<cp> - <mo>			172	20	60	54301	.21	.014		.16% grad MoS2
							N 75° U WK				75°	1/8	qtz-ser-py-cp.	3%	tp. blebs surrounded by dl. chl. darkening								
												15"	Broken core.										
											55 x 2	1/8 + 1	qtz-ser-carb-py-mo x2										
											10° x 2	1/16 x 2	qtz-chl-py x2			177							
									180		75 x 2	2' x 2	qtz-cp-(chl-py fractures)										
							75° 80 U. wt.					8"	Broken core - calcite along fractures.			186	27	90	54302	.21	.018		.21%
											70° x 2	1/20 x 2	qtz-ser-chl-py x2										
											30° x 3	1/16 + 1/4 + 1/8	qtz-chl-py x3										
											25°	1/16	qtz-cpy	3%									
											30	1/4	qtz-cp-py-mo.					90					
									190		85°	1/20	qtz-chl-cp-py										
							Not Defined				40° x 2	1/8 x 2	qtz-chl-py x2			192	20	90	54303	.16	.012		.18%
											80 x 3	(1/20 x 2) + 1/8	qtz-carb-cp-py										
											30 x 5	1/20 x 5	qtz-carb-chl-py ± <<cp>> x 5										
										196 - 213 Qtz pp/Plag PP - white to lt green porphyritic rx.	45°	1/4	qtz-chl-py	3%									
									200		60°	6"	Broken rubbly core - calcareous.										
							Not Defined				25°	2	qtz vein-<chl>			2025	40	95	54304	.26	.010		.17%
											58	1/20	qtz-carb-<py>	4%									
											35 x 2	1/16 x 2	qtz-chl-py x2										
											15°	1/16	qtz-chl-ser-carb-py-<cp>-<mo>										
									210		50° x 2	1/16 x 2	qtz-carb-chl-py x2										

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-72
SHEET No. 4 of 8

Qtz	Plag	K-Spar	Mafic	Testers	Hardness	ROCK TYPES & ALTERATION	∠ to Core Axis / Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks.	RQD %	Estimated Core Recovery %	Sample Number	% Cu	% Mo		Estimated Grade
							50°				15°	1/8	qtz-chl-carb-py										
						213-219' - Alternating bands of sauc alt'n w/ chl alt'd w/ qtz	Not				60° x 2	1/16 x 2	qtz-chl-cp-py x 2			213	37%	95%	54305	.19			.10%
											75°	1/4	qtz-[illegible]										
											125°	1/16	py-chl-qtz	1 1/2%									
									220		85°	1/4	[illegible]										
						223-230 Qtz-Tp	Not Defined				25	1/4	qtz-chl-mag-py	2%		223	23	95	54306	.44	.012		.10%
											60°	1/4	qtz-chl-carb-cp										
											60°	1/4	qtz-chl-carb-py <cp>										
												3"	[illegible]										
									120		80°	4"	[illegible]										
						230-235 DK ALT'n - chloritic Zone	5° 80°				85°	1/4"	qtz-carb.			233	20	95	54307	.23			.21%
											20°	1/4	qtz-chl <py> <cp>	3%									
						235-244 Qtz Tp.	No Defined				80°	2"	qtz-chl-carb-cp										
											60° x 3	1/2 + 1/20 x 2	qtz-chl-cp-py x 3										
									240		80	1											
							Not Defined				45°	1/16	qtz-chl-py-cp.	2%		243	47	95	54308	.28			.17%
											80°	Hle	qtz-chl-py										
						244-267 Dark Alt'n - few bands w/ sauc alt'n					65° + 85	1/16 x 2	qtz-[illegible] <py> <cp> x 2										
							~60°				60 x 2	1/4 x 2	qtz-chl-[illegible]-carb-py-<cp>										
									250		?	3	Brecciated [illegible] -cp-py										
							70°				75°	1	qtz-[illegible] carb-py-mo.			253	53	95	54309	.16	.005		.15%
											60°	3/4	py-chl-carb										
						254-261 Alternating bands of Chl / Sauc.	85				85	2 1/2	qtz-ep.-chl.										
							WK				60°	1/4	qtz-chl-[illegible]-py-cp	2%									
											45	1/16	qtz-chl-cp-py										
							Nd.		260		20° x 2	3/4 + 1/2	[illegible] py-<cp> x 2										
											70	1/8	qtz-chl-cp										
						261-~290 Mainly sauc alt'n [illegible] dark [illegible]					20	1/4	qtz-chl-cp.			263	37	80					.20%
							65° 90				60°	2	qtz-mag-chl-cp	1%									
							WK				5°	1/20	qtz-chl-cp-py										
							70				10°	Hle	carb-hem.										
							Nd.		270		50°	3/8	qtz-chl-mib-cp-py										
											80°	2 1/2	qtz-sau-py			272	43	85					.29%
							90°				75 x 2	3/4 x 2	qtz-mag-cp-chl x 2	1%									
											25	1/8	qtz-chl-cp-<carb>			276							
							WK					12"	Broken [illegible] -py-carb.										
											50°	1/4	qtz-sau-chl-cp-py					45					
									280		[illegible]	1/4	[illegible] mag-py										

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 87-77
SHEET No. 6 of 8

ROCK TYPES & ALTERATION: Qtz	Plag	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	Foliation Alteration	GRAPHIC LOG: Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD %	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							60-80° wk		360		80° 30° 60° 75° 20°	1 1/2 1/2 5 1	Broken core - calcareous gg. qtz-carb. qtz-chl-cp. qtz-chl-py qtz-ser-carb-py qtz-cp	1%		352 360	10%	70%					.08%
							60 50 wk.		370		50 30° 50+30° 30° 80° 50° 80	12" 1/8 1/2 1/8 1/2 1	Broken core - calcareous gg. qtz-chl-sp-carb 1% qtz-carb. x 2 qtz-chl. <<cp>> qtz-chl-cp qtz-carb-chl-py-<<cp>> calcareous gg	1%		363	43	85% 85					.13%
							80° wk.		380		45+65 20° 80 80 x 2 80 x 2	1/8 x 2 1/16 2' 1 1+3/8 1 x 2	qtz-cp x 2 qtz-chl-carb-py-cp Broken core - calcareous gg fragments qtz-carb-chl qtz-chl-carb-cp x 2 1% qtz-chl-disseminated cp			373	17	90					
						380 - 496' Sand Alt'n	60 70 50 wk.		390		80° 70 55 70° 60 x 4 60°	1 1/4 1/16 1 1/2 1/16 x 4 12"	qtz-cp-carb qtz-carb. chl-qtz-carb calcareous gg - rubbly x 2 -<<py>> qtz-carb-py-cp x 4 py-qtz veinlets	5%	Less fractured x	383.5	47	90					.05%
							60 50 wk 70 M.d.		400		45 45 80 30°	1 1/2 5" 3" 1/2	qtz-py-carb qtz-chl-py-cp qtz-chl-sp carb Broken core & gg calcareous qtz-chl-<<cp>>	2%	(fine disseminated tiny veinlets of cp)	394	47	90					.19%
							60 80° wk 70 M.d.		410		50 x 5 80° 70 70 60 60 x 4	(1/4 x 4) + 1/16 x 1 1 1/16 1/4 1/4 1/16 x 4	qtz-chl-carb-cp x 5 qtz-cp qtz-chl-cp qtz-carb. qtz-chl-carb qtz-chl-cp x 4	1%		404	57%	90					.15%
							80° wk.		420		10° 55° 60° 70 1/5 x 2 30° 50 x 2	1/16 1/4 1/20 12 1/8 x 2 1/16 x 2	calcareous gg - hung qtz - chl - carb qtz-chl-cp qtz-sp-chl-carb-<py>-<<cp>> qtz-chl-sp-<< mod>> carb x 2	.8%		414	20%	85					.10%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-17
SHEET No. 5 of 8

ROCK TYPES & ALTERATION: Olt.	Plag.	K-Spar.	Mafic	Textures	Hardness		∠ to Core Foliation	Foliation Alteration	GRAPHIC LOG: Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Blocks.	RQD %	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							60-70° wk to Mod		290		45° / 45° x 2 / 45° + 20° / 20°	1/8 / 1/8 x 2 / 1/20 x 2 / 1/8	qtz - carb. / qtz - chl - carb - cp - <py> x 2 / qtz - chl - py / qtz - chl - carb - <cp>	1%		283	43%	80%					.10%
						Gradational contact 290 - 337' Mainly wk. chl. alt^n w/ only	60-70° wk to Mod		300		60° / 30° / 45° / 70°	6" / 2 / 1/16 / 1/8 / 6" / 1/8	Broken core - calcareous gouge. / qtz - carb - <<cp>> / qtz - chl - carb - py - <cp> / qtz - chl - cp - mo / rubble & gg. / qtz - chl - carb - py	1%		292 / 296	27	90					.106
						Minor sauc alt^n & ep blotches.	60-70 wk to Mod		310		80° / 30° / 60 x 6 / 80° x 3 / 45°	1/2 / 1/16 / 1/20 x 6 / 1/4 + 1/2 / 1	qtz + chl - carb - (cp) / qtz - chl - py / qtz - chl - cp - py x 6 / qtz - chl - cp x 3 / qtz - chl - cp - <py> - carb	1%		306	37	90					.3
						- (more ep stringers & blotches)	Var. Gen to 80 Mod		320		80° / 55 / 60° / 60° / 70 x 3 / 60°	1 / 1/2 / 1/2 / 1 / 2 x 3 / 1/16	qtz - cp / qtz - ep - carb - chl / qtz - chl - (cp) - py / qtz - carb - cp - chl - <<py>> / qtz - ep - <carb> / qtz - chl - cp - py	8%		316	17	90					10
							70-80° wk.		330		75 x 2 / 60 / 60° x 2 / 70°	1/16 x 2 / 1 1/2" / 12" + 5' / 4" / 12	qtz - cp / Calcareous gg - hem. / qtz - ep - cal. x 2 / chl - qtz - carb - <<cp>> / Broken core - calcareous fracture.	8%		326	13	90					.09%
						Gradational contact 337 - 380	Not Defined / to 80° v. wk		340		70 / 80 x 2 / 50° x 2 / 80°	5' / 1/4 x 2 / 1/16 x 2 / 1/16	qtz - ep - carb - <chl> - <<py>> / qtz chl. carb - <<cp>> / carb gg / qtz - chl - carb - py	9%			17	85					.16
						Sauc Alt^n / Dark Alt^n	60-80 wk.		350		50° / 30 x 2 / 70° / 70° / 30°	1 / 1/16 x 2 / 1/16 / 1/4 / 1/16 / 6"	qtz - chl - carb - py - <cp> / qtz - chl - py x 2 / qtz - carb / qtz / qtz - chl - cp / Broken core - calcareous fractures	.7%	331 Ground core	341 / 344 / 346	40	90 / 60 / 70					.02

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-17
SHEET No. 7 of 8

ROCK TYPES & ALTERATION: Ots.	Plag.	K-Spar.	Mafic	Textures	Hardness		∠ to Core Foliation	Foliation Alteration	GRAPHIC LOG: Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD %	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							60° -70° Mod.		430		45° 60 x 2 60 x 10 20° 45°	12" 1 1/4 x 2 hle x 10 1/8 1/2	Broken core - calcareous gouge gtz-chl-carb-<py> gtz-chl-carb x2 carb x10 gtz-chl-<py> gtz-chl-<carb>	8%		422 429	20%	85%					.06%
							80° Mod.		440		45° 10° 60 10° x 2 60	4 1/4 1/20 hle x2 3	gtz-carb-<py> chl-carb gtz-chl-<py>-carb. carb x2 gtz-chl-carb.	.5%		439	27	80					.06%
							60° Str to 80 wk some fo		450		40 80° 50 x2 6 5.5 4.5	1/2 8" 1/20 x2 6 1 1/2 1 4	gtz-chl-carb gtz-chl-carb-<py> gtz-chl-pyx (folded) Broken core & calcareous gg. calcareous gg gtz-<chl> gtz-chl	.5%		449	63	95					.05%
							70° 80° Str.		460		70° x2 70° x2 70° 50 70° 80 x3	1 + 1/2" 1/4 x2 1/2 1/2 3/4 1/20 x2 + 1/8	gtz-chl-<py>-<cp>> x2 gtz-chl. x2 gtz-musc-pyr-chl calcareous gg gtz-chl-carb gtz-chl-carb-py x3	.6%		457	43	90					.06%
							30° 60° Mod to Str.		470		80 x 3 30 20 x 3 85 40	hle x3 3/4 1/16 x3 1 1/20	gtz-chl-py x3 gtz-chl-carb gtz-chl-<py> x3 gtz-chl-carb-<cp>> carb gg Broken core - calcar. gg - gtz-chl.	1%		466	17	80 85					.06%
							30° 45° wk to Str.		480		70-80° 5° 60°	1/4 to 8" hle x 4" 1/16	gtz-chl-carb. x10 gtz-chl-py Broken core cal. fract. gtz-chl-py	5%		472	47	85					.05%
							70° 80° wk.		490		20 x 3 30° 50	1/20 x 3 1/16 1/16	gtz-chl veins Var. angles + thickness carb-hem. gg gtz. chl. carb-py carb gg-hem	.7%		482	40	80					.05%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-17
SHEET No. 2 of 2

ROCK TYPES & ALTERATION: Qtz	Plag	K-Spar	Mafic	Texture	Hardness		GRAPHIC LOG: ∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks.	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							70°			1	50°	hle	[illegible]			491		95%					
							WK			-N			carb-hem xz										
										120 x 2 -60°		hle x 2 1/2	sta-pied. sauc-[illegible]-py										
						E.O.H. @ 496			500							496.							

M.R. Schaumberger

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-18
SHEET No. 1 of 7

LOCATION	BEARING 0°	LATITUDE 49,550.63	CORE SIZE N.Q Wireline	LOGGED BY MRS
DATE COLLARED April 22, 1981	LENGTH 480'	DEPARTURE 54,301.65	SCALE OF LOG 1" = 10'	DATE April 27-29 '81
DATE COMPLETED April 23, 1981	DIP -90°	ELEVATION 4,079.73	REMARKS	

OX. DEPTH 80'
SUP. DEPTH

ROCK TYPES & ALTERATION: Olz.	Plag.	K-Spar.	Mafic	Texture	Hardness	Description	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	REMARKS	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo		Estimated Grade
						Cased to			70														
						14'																	
									20				Badly broken core lim										
						MINE PHASE QUARTZ DIORITE - Same 1/1 d/ dk alt'n 19-54	80° wk.		30		70 X 10 X	hle X hle X	Badly broken limonitic core. lim	0%	Str. lim to 50' wk. lim to 80'	21 26 27	13%	60% 70%	54233	.05	.002		.02%
		4045 4040					5°-80° Str folded & rem.		40		70° 15° 70°	3 hle x	Badly broken limonitic core 99 lim lim X	0°		34	17%	65% 90%	54234	.07	.006		.02%
							50-80° Str folded & remulated		50		70° 30°	Y-w 4	lim - some hem qtz-py-lim qtz-py-lim	3%	Some broken core	44	27%	90%	54235	.05	.002		.02%
						54-59 Olz PP ?	5-80° Str folded & remulated		60		15° 20° 60 x 2 40 + 60 + 80 80° x 2	4 hle 1/16 + 1 1/2 1/16 x 3 3 + 2	qtz. chl py lim qtz-chl-py-lim qtz-py-lim Broken qtz-gg-lim	3%		54	40%	85%	54236	.17	.001		.02%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 21-18
SHEET No. 2 of 7

ROCK TYPES & ALTERATION: Qtz	Plag	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks.	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						59 – 61 Sericite Alt'd.					60 x 6	1/20 x 6	qtz-chl-py X6										
						61-68	60°				75°	3	qtz	2%		63							
						Qtz PP	80°				550	1/4	qtz-py										
							wk				3 x ?	hle x ?	qtz-py	x ?									
							to				30°	20	qtz-some py-chl.		fine veinlets of py.	67	20%	75%	54237	.14	.0 =		.09%
						68 -	Mod.		70		70°	1/2	qtz-chl-ep. ccc??					85%					
						Sericite Alt'd					30°	1/16	qtz-chl py										
											70	1/16	qtz-py			73							
							65°				45 x 3 →	1/16 x 2 x 1	qtz-ser-chl-py	2%				65%	54238	.1	.2		.05%
							wk.				80 x 2	[illegible]	qtz-lim			76	30%						
											20	3/8	qtz-chl-py-lim-(chem)										
									80		80°	1/4	qtz-py-l.					90%					
											15°	[illegible]	qtz-chl-py		Note - brass from drilling smeared on outside of core. (Possible contam.)	82							
							60°				70° x 2	hle x 2	qtz-ep x 2										
							80°					4	Broken core-SS	1%									
							U.				10° x 2	1/4 x 2	qtz-ser-chl-py x 2				23%	75%	54239	.12	[illegible]		.03%
							wk.				55	1 1/2"	qtz-ser-chl-py-lim.										
									90				Fault zone			90							
											15°	1/20	qtz-chl-py-ep			92		85%					
							45				30°	1/16	qtz-ep.	1%									
							80°				45° x 8	1/20 x 8	qtz-ser-chl-py x 8.				40%	90%	54240	.11	.0 1		
							wk.				60°	[illegible]	py-lam.										
									100		25°	1/20	[illegible]			100							
											30° x 3	1/8 + 1/20	qtz-chl-ser-py	X3									
							80°				30 x 2	1/20 + 1/4	qtz-ser-py	1 1/2%									
							wk.				55°	2	qtz-lim.			106	27%		54241	.15	.02		.05%
											75 x 3	1/20 x 3	qtz-lim.										
									110		60 x 3	1/16 x 3	[illegible] x 3										
											65 x 2	1/16 x 2	qtz-ser-py x 2			111							
							Not				25° x 3	1/4 x 2 + 1/20	qtz-ser-py	X3				90%					
											30 x	1/8 x	qtz-ser-py			116	43%		54242	.21	.0 1		.05%
							Defined				45 x	1/8 x	qtz-ser-py x	3 1/2%									
									120		60°	1/4	qtz-py										
							Not				30 x 2	1/8 x 2	qtz-ser-py	x 2									
											45° x 4	1/8 x 4	qtz-ser-py x 4										
							Defined				30 x 3	1/8 x 3	qtz-[illegible]	x 3		126	47%		54243	.10	[illegible]		.05
											50	1/8	open [illegible]	3%									
									130		30°	1	qtz-ser-py										

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-18
SHEET No. 3 of 7

ROCK TYPES & ALTERATION: Qtz	Plag	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	Foliation Alteration	GRAPHIC LOG: Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						130-149' Same All^m/Qtz-Ser Zones	45° 80 Mod to Str		140	30×7 70° 45×8 45×3 15°		1/16×5+1/8×2 lle 1/4+1/8+1/16×6 1/20×3 1/16	qtz-ser-py ×7 kaol 4% qtz-ser py ×8 qtz-ser-py-cp ×3 qtz-chl-ser-py (leached out carb.)			136	40%	90%	54244	.13	.002		.15%
						149'	45° 80 Str to wk		150	30×3 45° × 60° 20°		1/8×3 4' 1/20→1/4 6" lle	qtz-ser-py-cp qtz-ser-py Zone 4% qtz ser-py qtz-ser-py ∴ (cp) 2 mes. kaol-			146	60%	85%	54245	.16	[illegible]		.20%
						Same All^m	Not defined		160	20×4 50×2 15° 30×2 15°×2		1/20×4 1/8×2 3/4 1/8×2 1/4+1/8	qtz-ser-py-vugs after leached carb. qtz-ser-py ×2 4% qtz-chl-ser-py = (cp) vugs after leached carb qtz-ser-py vugs after leached carb ×2 qtz-ser-py-chl-vugs after leached carb ×2			156	53%	90%	54246	.11	[illegible]		.18%
							80° V. wk No defined		170	50×4 30° 80×2 30° 45 60 ×7		1/8+1/16×30 1/2 1/16×2 1 1/8 1/16×5+1/8×7	qtz-ser-py ×4 qtz-chl qtz-chl-py ×2 4% qtz-chl-py qtz-(py)-(mo) qtz-ser-py ×7			165	33%	90%	54247	.05	.014		.10%
							80° V. wk		180	60×2 10° 30×7 Δ 1/6×2 30×2		1/4+1/8 lle 1/16×7 1 1/16×2 1/2	qtz-ser-py-chl qtz-ser-chl-py 3% qtz-ser-chl-py Broken cov-gy-(py)-(chem) qtz-ser-py ×2 qtz-ser-chl			175	30%	90%	54248	.12	[illegible]		.10%
							60° 80° V. WK		190	60×2 50° 45×2 50° 60×6 40°		1/16×2 lle 1+3/8 1/4 1/16×6 1	qtz-ser-py ×2 qtz-ser-(chl) 3% qtz-ser-py ×2 qtz-ser-py-(cp) qtz-ser-py qtz-ser-py-mo-vugs after leached carb			185	23%	90% 80%	54249	.12	.018		[illegible]
							60° 80° wk		200	60° 10° Δ 30° 20×2 30×2		1/4 1/16 1/2 1/4 1/4+1/2 1/2×7	qtz-py-(cp) qtz-carb-py 3% broken cov-gy qtz-chl-cp qtz-carb-py-(cp) ×2 qtz-ser-chl-py ×2			194	13%	80%	54250	.13	.015		.18%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 87-18
SHEET No. 4 of 7

ROCK TYPES & ALTERATION: Qtz	Plag.	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							80°				70°	13	Qtz FP.		Badly broken core	203							
											70°	1/4	Qtz Isu - py - cp										
							N.					12	Broken core - carb gg										
												2"	" " "										
							WK				70	1/2	qtz-chl-ser-py	1%		206	10%	60%	54351	.10	.004		.09%
											15°	hle	carb										
									210			6	qtz-chl-graphite-carb										
											70° x2	24	Broken core - carb. gg		Badly Broken core			70%					
							80°					1/16 x2	qtz-carb-py x2										
																214	3%		54352	.17	.014		.12%
							U.				5°	1/4	qtz-carb-ser-py	2%				75%					
							WK				20°	hle	tool-lin										
																218							
									220		?	2"	Broken qtz vein - <py> - <<cp>> - <<mo>>					75%					
											5°	1/4	Broken core										
												3	qtz-ser-py	3%		222							
												1 + 2	Broken core - calcareous gg - lim. - py										
							Varied				80 x 2		qtz-carb-mo-py-<<cp>> x 2				7%	80%	54353	.31			.20%
											10°	1/4	qtz. carb										
											20	1/20	qtz-carb-chl-cp-py										
							5-80°		230		10° x 4	1/20 x 3 + 1/16	qtz-chl-carb-cp-py x 4			229							
											60	1/16	qtz-ser-chl-py										
							5-80°				10°	1/16	qtz-ser-chl-py					90%					
											20°	3/4	qtz-carb-py	3%		236	33%		54354	.18			.10%
							Variable				85°	1/20	carb										
											80	20"	qtz-pp										
									240		5° x 2	1/20 x 2	qtz-ser-py-<cp> x 2										
							60-				60°	1	qtz-ser-py-cp		Broken core			85%					
							80°				60°	1/16	qtz-mo-py	2%		246	7%		54355	.31	.004		.20%
																							Gr. of No 2
							pb +				70°	1	qtz-ser-cp										
							Defined		250		10	hle	qtz-carb-chl-cp		Poor recovery								
							30°				75 x 2	3/4 x 2	qtz-carb-chl-<<py>>-<<cp>>					20%					
							to								Broken core									
							N.+				45	2' ?	qtz-carb-chl	2%	Poor recovery	256	0%		54356	.25			.20%
													py - <cp> - <mo>										Grad
							Defined		260		60°	1/4	qtz-mo-py			259		20%					Mo
							60°				5°	1/8	gouge - calcareous	2%									
							v. WK.				?	7"	open space filling in					50%					
							to						core of qtz-chl-carb										
							0°					6"	calcareous gg - Broken core			266	13%		54357	.25	.052		.19%
							Str.																
							Gd.		270		65°	2"	qtz-ser-<chl>-py-<<mo>>										

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GIBRALTAR MINES LTD.

HOLE No. 87-18
SHEET No. 5 of 7

Qtz	Plag	K-Spar	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	L to Core Foliation	Foliation Alteration	Footage	Structure	Veins L to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo		Estimated Grade
										70 x 2		1/4 + 1	qtz-ser-chl-py	x 2				90%					
							70°			80 x 3		1/20 x 3	qtz-ser-py x 3										
										60°		1/16	qtz-carb-ser-cp-py										
										80°		3	qtz-ser-chl-py-<<mo>> <<cp>>				3%		54358	.37%	.025		.20%
							Mod			80		2	qtz-chl-py-<cp>	3%		277							
						277 — 318			280	60		1	qtz-chl-ser-carb-py										
						Same Alt	70 -			60		2	qtz-chl-carb-py(<cp>)					90%					
							80°			60°		1/2	qtz-ser-carb-chl-py-cp.										
										70°		hle	qtz										
							v.			70°		12	qtz-sericite -	2%			27%		54359	.32	.027		.22%
										70°		1/4	qtz-ser-carb-py-cp			287							
							Wook		290	30°		1/2	qtz-carb-chl-py-cp										
							45°			30°		1/8	qtz-carb-pied.					80%					
							70°			20		1/16	qtz-chl-carb-py										
							wk			30°		1/16	qtz-chl-ser-py	2½%		295	10%		54360	.23			.20%
							to			70°		hle 0	qtz-ser-chl-cp py					80%					
										70°		24	qtz-chl-sericite										
							Mod			20°		hle	qtz-chl-py-(<cp>)			299							
									300	20°		hev.	qtz-chl-py										
							60°			45		1/4	qtz-carb-chl-py-<<cp>>					75%					
						(few dk. zones)	Wk.			60°		1/8	qtz-ser-chl-carb-cp-py										
							to			55°		1/16	qtz-pied-sericite										
										60°		6	qtz-ser-cp-py zone			306	7%		54361	.32			.25%
							Mod.					6	Broken core-qtz (calcareous)										
										20		1/8	qtz-chl-cp-py	2½%				75%					
									310	20		1	qtz-ser-carb-py										
										70°		hle	qtz-chl-py-ser										
							70°					12	Broken core	2%		313	7%						
												1	qtz-carb-chl.					85%	54362	.22			.15%
							wk			50		3/4	Broken core - calcareous										
						318 - 426						1/8	qtz-carb-chl-py-cp			318							
									320	50		6	Broken core - calc. qtz					90%					
										70°		1/2	qtz-carb-chl-cp.-mo			321							
						DK Alt — / Same	70 -			45		1/8	qtz-carb-py										
						Alt ~ / Qtz-Ser-	80°			20°		1/20	qtz-chl-carb-py-cp				17%	90%	54363	.58	.017		.35%
						Chl Zones.				70 x 2		1/8 x 2	qtz-chl-carb-py-cp x 2										
							Wk		330	60°		1	qtz-ser-cp-mo.	3%		330							
										45°		1	qtz-ser-carb-py- <<mo>> -<cp>										
							70°			70°		1/20	qtz-chl-cp				20%	90%	54364	.58	.001		.33%
										80°		1	qtz-ser-carb-cp-py										
							Wk.			10°		1/16	cp-qtz-ser-carb-chl.										
										65°		1/2	qtz <chl> -<cp>	3%		338							
									340	10°		1/8	qtz-ser-py										

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GIBRALTAR MINES LTD.

HOLE No. 81-78
SHEET No. 6 of 7

ROCK TYPES & ALTERATION: Qtz	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							80° v. WK		350		10° x2 10° 30° 60 70 x2 70°	1/16 x2 1/20 1/4 1/4 1 + 2 1/20	qtz-chl-py x2 chl-py-carbon 2% qtz-carb-chl-py qtz-carb-chl-py qtz-carb x2 chl-ser-py-<cp>			346	10%	90% 95%	54365	.34	.016		.09%
							80° v. WK		360		30 x2 50 x2 10 20 30°	1/20 x2 + 1/8 1/20 x2 1/20 1/4 5 1/16	qtz-ser-py-<<cp>> x3 qtz-chl-carb-py-<cp> x2 qtz-chl-carb-py-<cp> qtz-carb-py-<chl> Broken ore-gg-carb-<py> qtz-carb-chl-py 3%			355 356	20%	90% 95% 95%	54366	.36	.4		.08%
							20° 80° v. WK		370		30° x3 20° 20 x3 30°	1/16 x3 1 6 1/8 x3 1/8	qtz-chl-py-<cp> often qtz-py-chl-carb-<cp> Broken ore-gg 2% qtz-ser-chl-cp-<cp> qtz-ser-chl-py		leached carb.	363	27%	95%	54367	.28	[illegible]		.11%
							50° 80° v. WK		380		30 30° 30° + 25° 15° 10°	1 41 3/4 1/16 x2 1/16 1/8	qtz-ser-chl-cp Broken ore gg 2% qtz-carb-<py> qtz-ser-chl-py-cp x2 qtz-ore-carb-py qtz-chl-py		Badly Broken Core	371 374 378	10%	65% 75%	54368	.43	[illegible]		.08%
						short intersection of plag pp 1%	80° v. WK		390		30° 10° 75° 10° 50 10°	1 1/20 1/8 1/20 1/8 1/16	qtz-ser-chl-py-<cp> qtz-ser-chl-py qtz-ser-chl-py-cp qtz-same cp-<qtz>-ser 1% qtz-chl-ser-carb-py			384 390	3%	90% 85%	54369	.46	.011		.25%
							Not defined		400		60 70° x2 15 85°	1 1/8 x2 1/20 1 12	qtz-chl-<cp> qtz-carb-chl-py 1% chl-qtz-ser qtz-chl-carb-<py>-<cp> Broken ore-gg			399	17%	95	54370	.19	.007		.10
							80° WK		410		80 20° 55 45 + 30° 30° x2 15 + 70°	1 1/4 1 1/2 x2 1 x2 3/8 x2	qtz-ser-chl-py-<cp> qtz-ser-chl-py qtz-carb-chl-py x2 1% qtz-carb-chl-py x2 qtz-cp-chl-carb x2 qtz-chl-ser-py-cp x2		Rx less broken.	406	40%	90% 95%	54371	.30	.008		.23%

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GIBRALTAR MINES LTD.

HOLE No. 81-18
SHEET No. 7 of 7

ROCK TYPES & ALTERATION: Olt.	Plag	K-Spar	Mafic	Textere	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							80°			70°	3/4	gtz-chl <<cp>>											
										80	1/4	gtz-carb-chl-py				413							
											6	Broken core - carb. ss											
							WK			45°	9	gtz-<chl>-<carb>-<py>-<cp>					40%	90%	54372	.42	.016		.22%
										70 x 3	1/16 x 3	gtz-chl-ser-carb-py-<cp>											
										35°	1/20	gtz-chl-py-<cp>	1%			418							
									420	60°	1/4	gtz-carb-chl-py-cp											
										45 x 3	1/8 x 3	gtz-chl-<py>						90%					
							80°			40°	1/2	gtz-ser-chl-cp											
							WK			80°	1	gtz-<chl><py>-<cp>											
							to						1%			425	20%						.26%
				426 - 453'			Not			80 x 3	1 x 3	gtz-cp-mo x 3											
							Defined			80	3/4	gtz-cp-mo						95%					
				where Qtz Ser.					430	80°	1/8	carb-gg-<cp>											
										15 x 3	1/20 x 3	gtz-chl-ser-cp-py x 3				431							
				DK alt'n			70°			70°	7	gtz-chl-ser-cp-py-carb zone											
							SW			70° x 2	1/2 x 2	gtz-chl-ser-py-cp x 2						90%					
				Qtz-Ser			to			60°	3 1/2	gtz-chl-cp ser											
							Not						1%			436	27%						.38
							Defined			45	1/2	gtz-chl-cp-carb											
									440		2'	Broken core - gg						85%					
							60°			15°	1/20	gtz-ser-py-cp				442							
										50° x 2	1/8 x 2	gtz-ser-chl-py-cp x 2			Broken								
							WK			20°	1/4	gtz-chl-ser	5%				3%	85%				.3
							to			60°	1/2	DK chl Alt'n Zone w/ <disseminated											
							Not					cp-mo> & veinlet of cp				448							
							Defined		450	60 x 3	1/2 x 3	gtz-ser-chl-cp x 3						90%					
							60			45 ± 20°	1/8 x 3	gtz-ser-<chl>-cp-py-<mo> x 3				452							
										0°	1/8	gtz-ser-chl-<py>-<cp>	5%					95%					
				453 - 480'			70			0													
							WK				1/2	gtz-chl-carb-py				456	50%						.30%
				Same Alt'n						45 x 2	1/16 x 2	gtz-chl-ser-cp-mo											
									460	60°	1	gtz-chl-ser-cp <mo>											
										10	Alt	gtz-chl-cp											
										10°	Alt	carb-hem						95%					
							70°			70° x 2	1 1/2	gtz-chl-cp x 2	5%										.30%
										55	1	gtz-chl-carb-cp											
							WK			30°	1	gtz-chl-cp				466	23%						
										60°	2	gtz-(chl)-<cp>											
									470	60°	9	gtz-chl-<cp>-<mo>						95%					
										5°	1/4	gtz-chl-cp											
							80°				15	Broken core	15%			474	23%						.30
										30 x 2	1/8 x 2	gtz-chl-cp x 2											
							WK			60° x 2	1/4 x 2	gtz-chl-ser-cp x 2						90%					
									480		12	Broken core - gg-<cp>				480							

M.R. Schaumberger

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GIBRALTAR MINES LTD.

HOLE No. 81-19
SHEET No 1 of 6

LOCATION [illegible]
DATE COLLARED April 29, 1981
DATE COMPLETED April 29, 1981

BEARING 0°
LENGTH 581'
DIP -90°

LATITUDE 48,962.45 N
DEPARTURE 55,696.07 E
ELEVATION 4,097.76'

CORE SIZE AQ Wireline
SCALE OF LOG 1" = 10'
REMARKS

LOGGED BY A.R.S.
DATE April 29-30, 1981

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness	Description	∠ to Core / Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	OX. DEPTH 106. / SUP. DEPTH / REMARKS	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						Casing to 22'			0 10		O.B.												
									0 20		O.B.				Limonite Zone Strong to ~60. Wk. to 106.								
						MINE PHASE QUARTZ DIORITE 22-31'	70° Mod		22 30		80° 15 30 40 x ?	Hle Hle Hle x	Cu-patches Cu-patches lim lim lm. gg & rubble	0%	Mod. weathering Gouge to 45'			90%				.03%
						Same Alt^n	70° Mod		40		70 x 30 x 30 30	Hle x Hle 3/4 1/3	lim x qtz-chl-lim qtz-chl-carb-(py) [illegible]	3%		35	20%	80%				.03%
						Qtz-Ser-Py-Lim Zone. 45' - Same Alt^n.	80° WK		50		80° 60° 5° 60 x ? 30	6" 2' 1/16 Hle x 3 Hle	qtz. ser-py limonitic gg-py. qtz-chl-lim lim AS lim	8%		44	10%	90%				.03%
							10° v. wk		60		5° 15° 60 x ? 45° 70°	Hle Hle Hle x ? 2 1	lim - Cu patches [illegible] - Cu-patches lim dic - qtz - lim [illegible]	5%		44 46	17%	90%				.06%

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GIBRALTAR MINES LTD.

HOLE No. 81-19
SHEET No. 2 of 6

Rock Types & Alteration	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo		Estimated Grade
	70				80°	hle	lim - mal - Cp	Vch				95%					
					70° x2	1 1/2 x2	qtz - ser - lim										
						12	Broken core - lim			66	47%						
	wk.				30°	hle	lim	1%									.06%
	10				80°	1/4	qtz - py - mal - MnO2										
	Mod		70		200 x2	1/4 + hle	MnO2 - py - mal - lim x2										
					35°	1/20	qtz - chl - py - lim	.5%				95%					
	50°				90°	hle	Mal - glu - pitch - lim										
72-78.5' Qtz - Cp - Chl - Alt'n Zone	80°				80°	1 1/4	qtz - chl - lim (mal) - wisps of Cp leached mal			76	53%						-.07%
	wk.				20	1/8	chl - ser - qtz - py - lim										
					100	1/8	qtz - chl - py - mal.										
78.5 - 86			80		100	1/2	lim gg										
Qtz - Pp					30 x2	hle x2	lim - mal. x2	.5%				95%					
	N.A.				70	4	qtz - lim										
	Defined				45°	1 1/2	qtz - cp - chl - ser - py - lim - mal.			86	40%						.06%
86 - 93 Qtz - cp - chl Alt'n zone					5°	1/16	qtz - lim										
			90		20°	1/16	chl - lim - Malz - mal.										
					45°	1/8	qtz - ser - chl - py - lim					95%					
	80				70°	2	qtz - chl - lim - wisps										
93 - 100.5' Same Alt'n	wk				20°	1/20	qtz - chl - py	1/2%		95	37%						.11%
					70 x?	Kle x?	lim x?										
Some alt'n similar	10				80	6	qtz - chl - ser - py										
Alt'n Qtz - Chl/Ser	Alt		100		85°	10	qtz - chl - ser - Pp - lim - mal - cp (sec)					95%					
100.5 - 131 Qtz Pp					40	1/4	qtz - chl - lim										
	N.A.				30	hle	lim										
					45°	1/20	qtz - ser - chl - py	1/2%		105	37%						.06%
	Defined				50°	1/8	qtz - ser - chl - lim										
					45°	1/4	qtz - chl - cpy					95%					
				110	60	1	qtz - ser - chl - py - cp										
	N.A.				70 x2	1/4 x2	qtz - chl - cpt py x2										
					70°	1/2	qtz - chl - cpy	1/2%		115.5	37%						.09%
	Defined				75	1/4	qtz - chl					90%					
					50	1	gouge										
			120		20°	1/20	qtz - chl - ser - py			120							
	Not				80°	1 1/2	qtz - chl - cp.					90%					
					20°	1/20	chl - gg - lim										
	Defined				60°	1/4	qtz - chl - cp.	5%		126	50%						
				130	5°	1/8	lim gg										

GIBRALTAR MINES LTD.

GRID _____ HOLE No. _____ SHEET No. 3 BF-19

Rock Types & Alteration: Qtz	Plag	K-Spar	Mafic	Tectonite	Hardness		L to Core Foliation	Graphic Log: Foliation Alteration	Footage	Structure	Veins L to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Assay Results: Sample Number	% Cu	% Mo		Estimated Grade
						131 - Same Alt'n / DK Alt'd Qtz Rich.	70 wk		140		50 / 80 / 70 / 10 / 60 / 80 / 80 / 30	4 / 1½" / ½x2 / 1 / 3/4 / 1½	qtz-chl-ser-cp. 3% / qtz-chl-carb-cp / qtz-chl-ser-py-cp x2 / qtz-cp / qtz-bugs after leached carb / qtz-chl-carb			130	83%	95% / 90%					.07%
							N.P. Affected		150		10 / 70 / 70 / 50 x 6 / 80 / 30	1/4 / 1 / 1/4 / vlex 6 / 1/8	qtz-bugs after leached carb. / qtz-chl-carb / qtz-chl-cp / carb-chert / qtz-chl-hem / qtz-chl-ser-cp	6 .3%		145	23%	95%					.07%
							N.P. Affected		165		30 / 30° / 45° / A	1/10 / 1/8 / 1/2 / 2'	qtz-chl / qtz-chl-(cp) - (py) - ser / qtz-chl-cp / Broken qtz veins - (cp)	3%	154-158 Broken core - [illegible]	155 / 158	23%	50% / 55%					.15%
							70° wk / 40 / Mod		170		A / 40° / 45° / 40 / 50	8" / 1/4 / 1/16 / 1/2 / 2	Broken core / qtz-cp-cc / qtz-carb-chl-hem / qtz-carb / qtz-[illegible]			162 / 165	57%	90%					.07%
							70° wk		180		85° / 70° / 60° / 60 / 100°	nle / nle / 2 / 4 / 1	chl-[illegible] / qtz-ser-cp / qtz-chl-carb-cp-hem / qtz-chl-ser-py zone / qtz-ser-py zone	.5%		176	43%	95%					.05%
						178-180 Qtz Pp					50°	1/8	qtz					90%					.03%
						180 - Same Alt'n	60 wk / 40 Mod		190		60 / 30 / 60° / 50	nle / nle / 1/16 / 1/8	qtz-chl-py / qtz-cp / qtz-chl-py / qtz-chl	.3%		186	67%	85%					
							60 Mod		200		55 x 2 / 70 x 2 / 60 x 2 / 70 / 60 / 70°	1/8 x 2 / 1/8 x 2 / 1/8 x 2 / 1½ / 2 / 3/4	qtz-ser-[illegible] x 2 / qtz-<<cp>> x 2 / qtz-[illegible] x 2 / qtz-chl-ser-(cp) / qtz-chl-[illegible] / qtz-chl-(cp) - py	.5%		194.5	[illegible]	90%					.05%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. [illegible] SHEET No. 4 of 6

ROCK TYPES & ALTERATION: Ore	Plag	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							60° wk.		210		60° x2 / 45° / 45 / 45 / 50	1/4 + 1/2 / 3 / 1.0 / 1/2.0 / 12	qtz-sm-chl>py x2 / qtz / qtz-cp / qtz-plag-cp>py / broken core	.5%		204.5 / 209	53%	90%					
							75 wk.		220		30 / 80 / 70 / 70 / 80	1/20 / 1/8 / 1.5 / hle	qtz-fwd / qtz-sm-chl-carb-cp>py	.5%		216	33%	85					
							90° wk.		230		70 / 70° / 55 x2 / 50 / 30 / 55	2 / 1 1/2 / 1 1/2 / 1/4 / 3/8 / 1/4	qtz-sm-chl-carb-cp / qtz-chl-carb-cp / qtz-sm-chl-cp / qtz-carb / py	.5%		226	57%	90% / 90%					
							80° wk Mod.		240		10 / 40° / 75 x2 / 20° / 30° / 20°	1/16 / 2 / 3/4 + 2 1/2 / 1 / . / hle	qtz-carb / qtz-chl-sm-cp / qtz-chl-cp / chl-carb-hem	.5%		236	30%						
							70° -45° wk Mod		250		70 x2 / 10 / 80 / 45° / 30 / 40 x2	1 + 1/2 / hle / hle / 1 1/4 / hle / 1/16 x2	qtz-chl-carb x2 / chl-carb / qtz-chl / qtz-chl-cp / qtz x7	.5%	→ chl sch / → [illegible]	246	40%	90%					
							45° 60° Mod.		260		50° / 55 / 45 / 30° + 70° / 30	hle / 1/4 / 1 / 3/8 + 1 / hle	chl-qtz-chain-carb / qtz-chl-sm-cp / qtz-chl-sm-cp / qtz-chl-carb	.5%	"	256	37%	90% / 80%					
							50° Mod		270		30° / 10° / 50° / 50° / 30°	hle / 6" / hle / hle / 1/2 / 1/4	chl-cp. / broken qtz vein w/ good cp min. - prob. lost some of it. / qtz-chl-py / qtz-cp-py / qtz-chl-cp-py	.5%		263	50%	95%					

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-19
SHEET No. 5 of 6

ROCK TYPES & ALTERATION: Qtz	Plag	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo	Estimated Grade
							60° WK.		280		30° x4 45 10° 45° 30 25 x2 70	1/20 x4 1/8 hle 1/8 1/16 1/4 x2 3/4	carb-hem x4 qtz-chl-cp qtz-chl-ser-py-carb qtz-chl-<py>-<cp> qtz-chl-py-carb qtz-carb x2 qtz-chl-carb	.5%		273	47%	95%				.05%
							60° v.wk +- 10° Defined		290		60° x2 15° 55° x2 55 30 40°	1/8 p2 hle 1/16-1/4 6 3 1/8	qtz x2 limo qtz-chl-py x2 qtz-<chl>-<carb> qtz-chl-carb-<py> qtz-chl-py	.5%		283 287	47%	60%				.05%
							70° Defined		300		70° 25 45° 30° 30°	1/2 1/20 5 3/8 18"	qtz-carb-chl-<cp> qtz-ser-chl-py qtz-ser-<carb>-<limo> qtz-carb-py ex-chloritic-qtz-ill altⁿ - <cp>	.5%		295	43%	95% 85%				.7
							80° v. WK		310		30° 30° ? 60°	1/8 1/2 1/4 1/2" 2" 15"	qtz-chl-py Broken core qtz-chl-<cp> qtz-chl-carb-<py> Minor disseminated py qtz-<carb>-<chl>-<py>	1%		303	23%	80%				.07%
							60° v. wk.		320		? 30 x2 60 30° 60 x2	12" 1/2 x2 1 hle 1/2 x2	qtz veins-<carb>-<chl>-Broken core qtz-pied-chl-carb. qtz-sanc-chl carb qtz-<chl> x2	.5%		312 320	33%	95%				.05%
							80° v wk +- wk		330		80 40° 30° 30° 15° x3	3 1/8 1/2 1/4 12 1/16 x2	qtz-pied-chl-carb. qtz-pied-carb qtz-chl-carb. Broken core. carb x3	.5%		327	10%	80				.05%
							70° wk		340		60 45 30° x2 30° 15° 90°	5 1 1/8 x2 1/20 1 1/4	qtz-chl-carb-py qtz-<chl> qtz-chl-carb-py x2 qtz-chl-py qtz qtz-carb	15%		336	33%	85 90				.05%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-19
SHEET No. 6 of 6

ROCK TYPES & ALTERATION: Qtz	Flag	K-Spar	Mafic	Texture	Hardness	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	Assay % Cu	Assay % Mo	Assay Gold
						77° Definite			A		12	Broken core			341						
										70°	1.	qtz-chl-carb		Broken		3%	85				
										20°	1/4	qtz-pyr-carb-chl									.05%
										60	hlc	chl-py	5%	Core	347						
										60	hlc	qtz-carb-chl-py					90				
								350		20°	1/4	qtz-pyr-carb									
									A		8	Broken core - carb.			351						
						75 80° WK to S/4				25	18	qtz-chl-carb									
									A		15	Broken core - carb. 99			357	23%	90				.05%
										75	2 1/2	qtz-carb-chl-carb-py									
								360		80°	1	qtz-carb	15%								
										70°	1/2	qtz					90				
						80 WK			A		24	Broken core	5%		365	7%					.05%
										15°	hlc	carb-hem.					75				
										30°	1/2	qtz-carb.									
									A		24	Broken core - 97			368						
								370		20	10.	chl-carb-hem									
						Not Definite				15°	1/2	qtz-pyr-chl-ep					70				
										15°	1/2	carb-99.									
										80	12	qtz-pyr-carb-carb-chl.			376	23%					100%
										80°	1	qtz-chl	15				90				
								380		110° + 80°	1/4 x 2	qtz-carb-chl x2									
								381		60°	hlc	qtz-carb-hem			381						

MR. Schaumberger

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-20
SHEET No. 1 of 7

LOCATION: Pollyanna
DATE COLLARED: April 26, 1981
DATE COMPLETED: April 27, 1981
BEARING: 0°
LENGTH: 472
DIP: -90°
LATITUDE: 49,322.02 N
DEPARTURE: 55,597.52 E
ELEVATION: 4,135.99'
CORE SIZE: N.Q.W.
SCALE OF LOG: 1" = 10'
REMARKS:
LOGGED BY: G.D.B.
DATE: April 30 - May 1

OX. DEPTH: 105'
SUP. DEPTH: 160 (wk.)

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness	Description	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	REMARKS	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						Casing To 50'			50														
						MINE PHASE QUARTZ DIORITE Sous Alt'n (50-194)	ND		60		20 20 x 3 50 45	3/4 hle hle 1/4	lim lim MnO_2 chl-lim	0		57	47						0
							ND		70		50 60 x 4 70 45 30x3 + 20x2	1/4 1/8 + 1/20 x 3 1/4 hle 1/20 x 5	chl-lim MnO_2 = 4 qtz-MnO_2-mal MnO_2-mal lim x 5	0		66	20	95 80					15
							ND		80		30 + 40 + 60 30 + 45 x 2 70 70 15 30	1/8 x 3 1/10 1/4 hle hle 1/20	qtz-chl-lim x 3 qtz-chl-lim x 3 qtz-chl-lim mal mal chl-mal	0		74 79	23	85					15
							ND		90		50 80 30	1/20 1" 1/20 6"	qq-mal qq-lim-mal qq-mal bx + min qq zones	0		84 88	23	85 65					10
							ND		100		? 45 60 30 90 90	10" 1/8 1/10 hle 3" 1"	qq qtz-chl qtz-chl-mal lim-mal qq-lim qq	0		95 98	13	80 95					10

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-20
SHEET No. 2 of 7

Rock Types & Alteration: Qtz.	Plag.	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	Graphic Log: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Assay Results: Sample Number	% Cu	% Mo		Estimated Grade
						MINE PHASE. Sauc. Alt'n (50 - 194)	ND		110		40 30x3 40 45x2	4" 1/10x3 1/4 1/10x2	qq-lim lim x3 qtz-chl qtz-chl (cp)((Mo))	<.5		107 109	17	70 65					.08
							ND		120		5 10 30 25 20 20	1/4 1/4 1" 1/4 1/4 1/8	qtz-chl (Mol)(cp) qtz-chl-cp-Mo qtz-cp (cc) qtz-cp qtz-chl (cp) qtz-cp	<.5		115	33	70 95					.15
						QPP.	ND		130		20 15 30+70 45 90 90	8" 1/4 1/3 1" + 1/4 1/4 14" 1/4	qq+bx qq+Mo ? qtz-chl-py (cp)((Mo)) qtz x2 qtz-chl (cp) qq chl	.5		121 127	20	95 90					.08
							ND		140		90 70x2 45 30+5 45x2 30	2" 1/4x2 1/8 2" + 3/8 1/2x2 1/10	qq qtz x2 qtz-chl-cp qtz-chl + qtz-cp qtz x2 qtz-chl-py	.5		132 137	40	90					.03
							ND		150		40x2 60x2 45x3 10 30 40x2	1/10 + 1/2 1/4x2 1/8x3 1/10 1/20 1/4x2	qtz-chl (cp) + qtz-chl-py qtz (vug) chl qtz-chl-py x3 chl-py qtz-chl (py) qtz-chl-py x2	1%		147	53	95 95					.08
							ND		160		30 20 20	1/2 1/4 12"	chl-cp qtz-py qtz-chl-cp ((py)) zone qtz-ser (chl)-(py) (cc)(Nat. Cu)	1%		151 157	10	80					.10
						leucocratic phase? or bleaching?	ND		170		30 40 45 30x2 20 30x3 40x4 45	1/4 1" hte 1/10x2 1/20 1/40x3 1/4 + 1/10x3 1/4	qtz-ser qtz cp qtz-chl x2 chl-py qtz-cp x3 qtz-chl-py x3 py-ser	.5		165	50	85					.05

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-20
SHEET No. 3 of 7

Qtz	Plag	K-Spar	Mafic	Textere	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo		Estimated Grade
						MINE PHASE (Saus. Alt'n) (50-194)	ND		180		45 50 30 80 70 30	2" 3½" ¼ ¼ 3/8 ⅛	qtz-chl qtz-cp (vug) qtz (cp) ((Mo)) qtz qtz-chl qtz-chl	<.5		174	57	90 90				.10
							ND		190		30x3 40 40x3 50 30? 50+20 60 50x2	hle-⅞ x 3 ¼ 1/20 x 3 ½ 8" 2" x ½ ½ 1" + 2"	qtz-(cp)((Mo)) x3 qtz-py qtz-chl-py x 3 qtz-chl-ep (vug) qq+bx qq+bx x2 qtz-chl-py-cp qtz x2	.5		183 189	30	90				.08
						194 LEUCOCRATIC PHASE (194'-212')	ND		200		? 20 50+30 30 40	16" ⅛ x 2 1/10 x 2 ¼ ¼	qtz-chl-ep zone qtz (cp) qtz (chl) qtz (chl) qtz (chl) } veins are indistinct (relicts?)	<.5		195 200	27	80 85				.05
						rx between 165 and 194 appears finer grn. + lighter in color than normal Mine Phase - 194-212 is def. leucocratic phase. but contains relict mafics up to 20% 212	ND		210		20 30 x 2 30 x 3 30	3/8 1/10 x 3 1/10 x 3 1"	qtz-py (Mo) qtz-chl-py x 3 qtz-chl-py x 3 qq } chl. border phase	1%		205	10	85 75				.03
											30 x 2 30 x 3	¼ ⅛ x 3	chl (vug) qtz-chl-(cp) x 3			211							
						MINE PHASE (Saus. Alt'n) (212-472')	ND		220		30 60 45 70 60	⅛ ½ 1½ 1/10 6"	qtz (cp) (bo) (chl) (vug) ep qtz qtz-chl-py qtz	<.5		217	43	90				.08
							ND		230		50 30 35 30 20 35 x 2	3/8 ⅛ ⅛ ⅛ ⅛ 1/10	qtz-chl ep qtz ep cp-qtz py x 2	<.5		227	67	95				.05
							ND		240		35 70 30 10 45 x 3 20 + 80 30 x 2	1/10 ⅛ hle 1/20 1/10 x 3 hle + 2" ⅛ x 2	qtz-chl-cp-bo qtz-chl (cp) Mo? qq qtz x 3 py + qtz-ep qtz + qtz-chl (py) x 2	<.5		237	37	90				.05

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-20
SHEET No. 4 of 7

ROCK TYPES & ALTERATION: Qtz	Plag.	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						MINE PHASE (Saus. Alt'n) (212' - 472')	ND		250		50 ? ?20? 40 45x2 45 ?	1/8 20" 10" 2" 3 "&1" 1/4 24"	qt3-chl-cp qt3-cp zone qq+bx qt3-ser-chl-py (cp) cp+qt qt3-py (mo) qq+bx	.5 %		246 250	40	95 90					.05
							ND		260		45x2 45 ? 90x2 40 35 45 45	1/10x2 8" 1/4x2 1/10 1/10 1/10 1/20	qt3-chl-ser-py x2 qt3-ser-chl (py)((cp)) zone qt3-carb + qt3-chl ((cp)) qt3-chl-py-cp qt3-chl-py (cp) qt3-chl-py qt3-chl-py-cp	.5 %		260	47	90					.08
							ND		270		60 50 45x2 40 45 30? 45	1/4 1/8 1/2x2 1/2 1/10 1/2 1/4	qt3-chl-cp qt3-ser (py) qt3x2 qt3-ser-chl-py qt3-qq-py qq qt3	<.5 %		266	60	90					.05
							ND		280		50 30+60 40 45 30 20	3/4+1/2 1/4x2 3/8 1/2 1/4 1/10	qt3 (chl) x2 qt3x2 qt3 qt3-chl qt3 qt3-chl (py)	<.5 %		276	43	90					.05
							ND		290		30 20 80 20 60	1/20 1/20 6" 1/20 1/8 12"	qt3-chl-py qt3-chl-qq-py qt3-chl-ser-py qt3-chl (py) qt3 bx	<.5		285 290	33	85 90					.05
							ND		300		40 80+5 5 20x3 45 40 40	3" 6" 3/4 1"+1/10 1/4 1/10x3 1/4 1/2 3/4	bx qq qt3-ser-py qt3-ser-py-cp qt3-ser-cp qt3-chl-py x3 qt3-mag-(cp) qt3 ((cp)) qt3-py	1 %		296	47	85					.35
							ND		310		30x3 40 50 40	1/10x3 1/2 1/2 16" 4'	qt3-chl-py x3 qt3-chl. qt3 qt3-ser-chl zone qt3-cp-chl zone			306	47	95					

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-20
SHEET No. 5 of 7

ROCK TYPES & ALTERATION							∠ to Core Foliation	GRAPHIC LOG: Foliation-Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo	Estimated Grade
Cts.	Plag.	K-Spar	Mafic	Texture	Hardness																	
						MINE PHASE (Saus. Alt'n) (212'-472')	ND		320		30 45 30 45+5 60	1" 6" 4" 1/4 1"+1½" 3"	qtz-chl ((cp)) zone qq+bx qtz-chl qtz x 2 qtz-chl zone	<.5		314/6	43	90 70				.05
							ND		330		60 60? 45 30? 30?	7" 2' 6" 5/8 3' 12"	qtz-ser (chl) (cp) zone qq qtz-chl (vug) qtz bx + min qq qq+bx	<.5		324 329	40	80				.05
							ND		340		20x2 20 5x3 5 50 ? + 60 + 30	1/10 + 1/8 1/8 1/20x3 1/8 1/4 12" + 1" + ½	qtz-py x 2 qtz-py qq x 3 qq qtz qq+bx + qtz x 2	<.5		339	30	85				.05
							ND		350		35 35 90? + 20 30 35 x 3 20 20	1/10 3" 8" + 1/4 1/2 1/8 + 1/10 x 2 1/20 1/20	qtz-chl qq+bx qtz-chl (vug) x 2 qq qtz-chl-py x 2 qtz-chl-cp qtz-chl-py	1%		347	50	75				.05
							ND		360		20 20 30 60 60 40	1/10 12" 3" 3/8 1/2 1/10	qtz-chl-cp qq+bx (hem) qtz-chl. hem qtz qtz-ser-cp qtz-py-qq	.5		355	33	85 80				.08
							ND		370		20 x 3 30 45 40 30 30	1/10 x 3 8" 3" 1/20 3' 12"	qtz-chl x 3 qq+bx qtz-chl-py-cp qtz-chl-py qtz-chl (cp) (py) (cp) zone qtz-ser-(py) zone	1%		361 367	23	80				.10
							ND		380		80 60 x 2 40 80	1/4 1/4 x 2 1/8 14"	qtz qtz x 2 qtz-chl-py qtz (cp) vein	<.5		374 379	33	85 85				.05
												10"	bx (qq)									

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-20
SHEET No. 6 of 7

ROCK TYPES & ALTERATION							∠ to Core Foliation	GRAPHIC LOG: Foliation, Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo	Estimated Grade
Qtz.	Plag.	K-Spar	Mafic	Textures	Hardness																	
						MINE PHASE (Saus. Alt'n) (212' - 472')	ND		390		5 50x2 50? 30 30 30x2	1/10 1/10x2 1 8" 4" 3" 1/10x2	chl-qq-carb qt3-chl-py (cp) x2 qt3 (dirty) qt3 (chl) (vug) qq chl ((py)) qt3 x2	<.5		389	43	75					.05
							ND		400		45 30 40 40 30 x 3 30 40	2" 1/10 1/10 1/10 2" x 3 1/2 3" 12"	qt3 (vug) qt3-chl-py (cp) qt3-chl-py qt3-chl-py-cp qt3 x 3 chl-carb qq+bx qq+bx	.5		396 400	37	95 75					.05
							ND		410			2' 2' 6" 5'	qq+bx bx (qq) qq bx	<.5		402 406 409 411	0	50 60 50 55					.05
							ND		420		5 80?	1/4 12" 12" 2'	qt3-Mo (py) bx + qq qt3-ser-py zone bx+qq bx	.5		416 419	13	65 50					.05
							ND		430		30 40 50? ?	1 1/2 3" 2" 10" 12" 6" 6"	qt3 (Mo)(cp) qt3-chl (Mo) qq qq+bx bx bx bx	<.5		426 430	17	80 75					.08
							ND		440		60 60 50 60 30? ? 45	6" 1" 1/4 1" 3' 2" 3'	qt3-ser-chl-py-cp qt3-ser-chl-py qt3-chl qt3-chl (cp) qt3-chl-ser-(cp) zone qq qt3-chl-ser-(py)(cp) zone	1%		437	43	80					.30
							ND		450		45? 10+50 10 20 80 30 20	12" 1/10 x 2 1/8 1/20 8" 8" 1/2	qq qt3-carb-py-cp qt3-carb-py-cp qt3-chl-py qq qt3-chl-cp-mag qt3-cp	1%		444	37	80					.20

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-20
SHEET No. 7 of 7

ROCK TYPES & ALTERATION: Qtz.	Flag	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RECORD: Sample Number	% Cu	% Mo		Estimated Grade
							ND		460		80 60 40 30 x2 20 x2 40 x3 20 x2	1" 1" 6" 1/16 x2 1/10 x2 1/10 x3 1/8 x2	qtz+py(cp) qtz+hem qtz-ep-chl (py)(cp) zone. qtz-chl-py x2 qtz-chl-py-cp x2 qtz-chl-py-qtz qtz-chl-py-cp	1%		454	37	85 90					.20
							ND		470		30 20 10+20 30 30 x2	1/10 1/10 1/20 x2 1/10 1/10 3" 2'	qtz-chl-py qtz-chl-py(cp) qtz-chl-py x2 qtz-chl (py) carb x2 qtz+hem QFP.	.5		464	43	85					.10
						472					30+3	1/10 x2	qtz-chl (cp) x2			472							
						E.O.H. 472																	

Harry D. Bysouth

GRID ____ GIBRALTAR MINES LTD. HOLE No. 81-21 SHEET No. 1 of 8

LOCATION ____ BEARING 0° LATITUDE 49,651.57 N CORE SIZE NQ Wireline LOGGED BY M.R.S.

DATE COLLARED April 27, 1981 LENGTH 509' DEPARTURE 55,566.20 E SCALE OF LOG 1" = 10' DATE Apr 30 - May 11 '81

DATE COMPLETED April 29, 1981 DIP -90° ELEVATION 4,201.62' REMARKS ____

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Mafic	Textures	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Veins	Mineralization	Pyrite Zone	OX. DEPTH 100' SUP. DEPTH ____ REMARKS	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						Cased to 34'.			0 0 8 30		O.B.												
									0 34							34							
						MINE PHASE QUARTZ DIORITE 34 - 161	Not defined		40		80° 20	1/2 1/16	qtz-sauc. qtz-sauc-chl (some possible Cu-pyrite) Broken core - limonitic gg & fractures	0%	Badly broken core	40	7%	80%					.02%
						Same Alt'n	Not Defined		50		60° 60 60°	hle X 6' 2'	lim X gtz-chl-ser - MnO_2 Broken core - gg - lim gtz-ep-chl Alt'n	0%	lim. St to 48 WK to 50	46	7%	30% 80					.02%
							Not Defined		60		45° 30 X 70° 70°	1/16 hle X 8 12 12	qtz-sauc. lim X white qtz pp? qtz-ep-chl-alt'n Broken core - gg	0%		51 59	33%	75%					.02
							80° U WK		70		30° X 70° 200° 45 X 2	hle X 12 1/2 1/16 hle X 2	lim X Broken core - lim Rubble - gg qtz-sauc - py lim X 2	15%		70	23%	70					.02
							80° Not		80		20 5' 60 50	1/8 hle 1/20	qtz - lim - MnO_2 Broken core - gg - lim chl - lim - carb qtz-chl-carb - lim	0%		72 80	10%	50					.02%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-21
SHEET No. 2 of 8

ROCK TYPES & ALTERATION: Qtz	Plag	K-Spar	Mafic	Texture	Hardness		∠ to Core / Foliation	GRAPHIC LOG: Foliation, Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							70° WK		90		15° 10° 80 60° 30° 50°	1/20 hle 1/20 1/20 hle hle	qtz-chl-carb qtz-hem qtz-pam-carb-hem chl carb-hem	.5%		90	60%	90%					.05%
							80° WK		100		15° 80° 20 45° x 2 70°	hle 1/16 hle 1/20 x 2 1/20 x 2	chl-qtz-py qtz-sp-chl carb-hem qtz-pam. x 2 qtz-carb-hem x 2	.5%		100	50%	95%					.05%
							80° WK		110		70° 60 x 2 90 45 20	hle 1/20 x 2 1/4 1 1	chlor qtz-pam x 2 qtz-pam-chl, qtz-pam-chl py disseminated py gg-carb.	.8%		110	63%	97%					.05%
							80° WK		120		50° 10° 30 20° 60° 45° 60°	1/2 1/20 1/8 1/20 6 1/2 1/2	carb. 5.9 qtz-chl-carb-cp-py qtz-ep-chl-carb qtz-chl-carb-py qtz-cp-chl-(py) qtz-cp qtz-cp-chl-py	1%		120	43%	95%					.05%
							60° 80 WK		130		45 60+30+10 30 x 2 60° 30° 70° 60°	1/2 hle x 3 hle 1/20 3 3 1/10 1/2	qtz-cp-(chl) carb-hem-hem x 3 carb-hem x 2 qtz-cp-py-carb-hem qtz-cp-py-carb-hem qtz-chl-cp-py qtz-chl-cp-(cp)	1%		130	27%	90%					.09%
							?	130-138 Fault Zone	140		70°	8 3	Broken core - rubbly core gg-carb-hem qtz-cp-(chl)-(carb)-(py)-(hem)-(limo)	8%		138	3%	60%					.05%
							80 WK		150		50 70°	2 hle 12	qtz (carb)-(cp)-hem Broken rubbly core -gg-carb-hem chl? cp-py gouge.	1%		147 150	3%	60% 50%					.05%

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GIBRALTAR MINES LTD.

HOLE No. 81-21
SHEET No. 3 of 8

Rock Types & Alteration (Qtz, Plag, K-Spar, Mafic, Textures, Hardness)	Graphic Log: ∠ to Core Foliation	Foliation = Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Assay: Sample Number	% Cu	% Mo	Estimated Grade
	80° wk		160		30 + 20°	hle x 2	chl - ser - py x 2			157	13%	60%				.60%
					0°	1/2	qtz - chl - cp - carb - py	3%								
					10°	1/8	qtz - chl - py - cp									
					5°	1/20"	qtz - ser - chl - py									
161 - 171 DK Alt^n / Qtz Ser Zones	80° Mod.		170		5°	3/4	qtz - chl - carb - <cp>			167	20%	80%				.25%
					45 x 2	1/2 + 3	qtz - ep - hem - pied ? x 2									
					60°	1/16	qtz - chl - carb - cp - <mo>									
					60°	1	qtz - carb - <<cp>>	3%								
					80°	1/2	qq									
					30° x 2	1/8 x 2	qtz - carb - chl - py x 2									
171 - 190 Same Alt^n	80° wk		180		5° x 2	1/20 x 2	qtz - chl - carb - py - <cp> x 2			177	20%	90%				.25%
					5° x 2	1/16 x 2	qtz - chl - carb - py - cp - x 2									
					40°	1/16	qtz - carb - chl - py	3%								
					10°	1/20	qtz - chl - ser - py									
					50°	25"	qtz - cp - chl - py - carb									
	80° v wk		190			4	Broken bleached zone - carb	qq		187	30%	90%				.2%
					20°	hle	chl - ser - py									
					5°	hle	chl - ser - py - cp		Bleached zone - Qtz fspp??							
						1 1/2	Broken core w/ qtz - py - <mo>	2%								
					30°	1/8	cp - qtz - chl - carb									
					70°	7"	qtz - cp - hem <<py>>									
190 - 200 Chl - Ep Alt^n / Sericitic Alt^n / Qtz - Ser - Chl Alt^n	60 / 80° wk		200		85°	hle	chl - ser - cp			197	43%	90%				.18%
					20°	1/20	qtz - chl - ser - py	1%								
					60 + 70°	1/20 x 2	qtz - chl - ser - py - <cp> x 2									
					80°	1/2	qtz - ep - carb - py									
						1	Broken qtz vein - <<cp>> - <<py>>									
					20°	hle	qtz - chl - cp									
200 - White Qtz Pp Lenticular Plane	Not Defined		210		0° + 20°	hle x 2	qtz - chl - py + ~			207	27%	80%				.15%
					10°	hle	qtz - ser - py - cp	1%								
					50	hle	ser - mo - py - cp									
					15 x 3	1/8 + hle x 2	qtz - ser - carb - py - cp - x 3									
					45°	1/4	qtz - ser - py - <carb> - <cp> - <<mo>>									
					45°	hle	qtz - ser - py									
	N.D. Defined		220		40°	1/4	qtz - ser - py	3%		217	20%	75%				.12% High mo
					5°	1/20	qtz - ser									
					65	1	qtz - ser - <mo> - py									
					25°	1	qtz - ser - cp - mo - py									
					20°	6	qtz - ser - py - mo - cp					80%				
							Broken core									

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GIBRALTAR MINES LTD.

HOLE No. 81-21
SHEET No. 4 of 8

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	Foliation, Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo		Estimated Grade
							Not Defined		230		30°	1/16	qtz-ser-cp			222	30%	90%					.24% High Mo
											15°	hle	carb-hem										
											30°	1/16	qtz-cp-mo	1%									
											∠10° + 80°	1"	qtz-cp-carb										
											30° x2	1/20 x2	qtz-cp			227		40%					
											70°	1/8	qtz-cp										
											50	1/8	qtz-carb-py-cp-∠mo										
							Not Defined		240		20°	1/8	qtz-py-			233	30%	75%					.20% High Mo
											50	1/4	qtz-cp-mo	8%									
											60°	1/16	qtz-cp-mo										
											45°	1/2	qtz-ser-py-cp-∠mo										
												16"	Broken core - carb fractures			237							
											30°	1/16	qtz-cp-mo					60%					
											40°	1/20	qtz-ser-py										
							Not Defined		250		10°	1/16	qtz-carb-chl-cp-py			242	20%	80%					.15%
											60° x2	hle x2	carb-hem x2										
											45°	1/8	qtz-ser-py-∠cp										
											30°	1/16	qtz-cp-py	8%									
											30°	1/16	qtz-cp-py-mo			247							
											10°	1/20	qtz-ser-cp-∠mo										
											70°	1/2	qtz-ser-gg-mo-hem					70%					
							Not Defined		260			24"	Broken core - sericitic fault gg. - chem			252	13%	80%					.07%
												24	Broken core - carb. fault gg.										
											65°	hle	qtz-chl-ser-carb-py-hem	.8%		257							
												24"	Broken core - carb - fault gg - hem					70%					
							Not Defined to 80° V. WK.		270		20° x2	1/16 + hle	qtz-carb x2			263	27%	70%					.09%
											70°	1/2	qtz-carb										
											10° x3	hle x3	qtz-chl-py-cp x3	8%									
											30°	1/16	qtz-chl-∠py-∠cp										
											60°	hle	chl-qtz-cp										
											30°	1/16	qtz-chl-cp										
											20° x4	1/20	carb-gg-hem			270							
							~70° WK				45	1/20	qtz-chl-py-cp				23%	70%					.12%
											60	hle	qtz-chl-cp										
											60°	1/2	qtz-ser-carb-gg-py	2%									
											30	1/20	qtz-chl-py										
											120 x2	1/4 x2	qtz-cp-mo-chl			277							
							45° Str.		280			3'	Qtz-Ser-Py-∠cp Zone — Broken core		20' 1/8 qtz-ser-cp-py								
											70°	1/20	qtz-ser-cp					70%					
											70	1/8	qtz-ser-cp	8%									
											20°	hle	qtz-chl-py										
											45°	1/2	qtz-chl-carb-cp-py			287	17%						
											30° + 70°	1/20 x2	qtz-chl-cp x2					80%					
									290		20°	1/2	qtz-chl-cp										

Rock Types & Alteration:
- Fault Contact 253 - 277 Chloritic DK AH^n / Sauc Alt^n / Leucocratic Phase / fault
- 277-285 Leucocratic Phase / Qtz-Ser-Py Zone
- 285 - 290.5 Dark Alt^n / Sauc Alt^n

GRID ____

GIBRALTAR MINES LTD.

HOLE No. 81-21
SHEET No. 5 of 8

Rock Types & Alteration	Graphic Log: ∠ to Core / Foliation	Foliation, Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Assay Results: Sample Number	% Cu	% Mo		Estimated Grade
290.5 - 292.5' Leucocratic Phase				/	30°	1/8	qtz-ser-chl-cp										
292.5 - 326' Sauc Alt^n/Dk. Chloritic Alt^n	70°			/	5°	1/8	qtz-ser-py			293							
	80°			/	45°	1/2	qtz-carb.										
	Mod to Str				80	8	qtz-chl-cp-carb-sphy	.7%		297	33%	80%					.09%
				/	10°	1	qtz-chl-sauc-py										
			300		80 x 2	1 x 2	qtz-sauc x 2										
				/	20°	1/8	qtz-cp										
	70°			/	45°	1/4	qtz-pied-cp-carb-chl.					80%					
	80°			/	20°	hle	chl-carb-hem										
	Str.			/	70 x 2	1/2 x 2	carb-gg	.5%		307	33%						.05%
				/	70	1/20	qtz-chl-py										
			310		15°	1/20	chl-qtz-sphy										
				/	65°	1/20	qtz & chl-py-cp										
				/	60°	1/4	qtz-chl-py					70%					
	70°			/	80°	13	qtz-sauc										
				/	70	6	Broken core-carb-hem	.8%			20%						.09%
	Str			/	80°	1/20	qtz-chl-py-cp		? Possible sphy? disseminations?	317							
			320	/	65°	1/20	qtz-sauc-carb-py			320		75%					
	80°			Δ		6	Broken core - core ground in drilling										
	U.			/	70°	1/4	qtz-carb-ser-py-cp					~~80%~~					
	W K.			/	85°	1	qtz-mag-cp-py-carb					75%					
				/	45°	1/4	qtz-chl-carb.	1½%		326	40%						.08%
326-331' Qtz-chl-Ser zones.	80°			/	15°	hle	qtz-carb-py-cp										
	Str.			/	80°	1/16"	qtz-ser-py-carb										
			330		80°	15"	qtz-ser-py-carb zone										
331 - 344' Sl. leucocratic Sauc Alt^n				/	90°	12"	qtz-ser-chl-cp-py					90%					
	Not			/	80°	1/20	qtz-ser-chl-py-cp										
				/	70°	1	qtz-chl-carb-sauc										
	Defined			/	10°	2	qtz-chl-carb-sauc-cp-py			336	40%						.15%
				/	20°	hle	qtz-cp.										
			340	/	70°	1/8	qtz-cp.	1%									
				/	60°	1/8	qtz-chl-sauc-cp					90%					
	Not			/	45°	1/16	qtz-cp.										
344 - 356 Fault Zone	Defined			Δ				1%		345	17%						?
				Δ		12'	Broken core - calcareous gg.					60%					
			350	Δ			sphy										
				Δ						351							
	Not			Δ	70°	6	qtz-carb-chl	1%				60%					
356 - 381' Sauc Alt^n	Defined			/	10°	1/8	qtz-chl-carb-py-sphy			356	17%						?
			360	/	5°	hle	carb.										

GRID ____ GIBRALTAR MINES LTD. HOLE No. 87-21 SHEET No. 6 of 8

ROCK TYPES & ALTERATION: Dtt.	Plag	K-Spar	Mafic	Texture	Hardness	Alteration	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo	Estimated Grade
							Not Defined		370		10 5° 10° 5° 5° 70° 70°	1/20 hle 1/4 1/8 1/8 1/20 1/4	gtz-chl-sauc. carb. gtz-chl-carb gtz-chl-carb-cp gtz-ser-chl-py gtz-ser-chl-cp-py gtz-chl-py	1%		366	67%	90% 90%				.09%
							Not Defined		380		5° 70° 80° 45° 10° 70° 50°	hle 4 1 1 1/20 1/4 hle	carb. gtz-ser-chl-cp-py-cp gtz-chl-ser-carb-py gtz-cp. gtz-chl-py gtz carb	1%		371.5	40%	70%				.09%
						381-383 DK chloritic Alt^n 383-401 Sauc Alt^n / Qtz mod chloritic w/ cp blotches	80° Mod.		390		80° 80° 80° 5° 5°	12 1/20 8" 1/20 1/2	Broken core - carb-gg gtz-chl - <<cp>>. gtz-chl-ser-carb - <<py>>. gtz-chl-py-(mo?) gtz-chl-cp. gtz-chl>-<cp>	6%	minor disseminated <cp>.	381	37%	80%				.09%
							Not Defined		400		5° x2 5° 20x3 15°	hle x2 1/2 8 1/16x3 1/20	carb x2 gtz-<chl>-<mo>-<<cp>> Broken core - carb-gg <py> gtz-chl x3 gtz-cp.	6%		391 396	37%					.06% Gold Mo.
						401-479 Sauc. Alt^n	Not Defined		410		20° 50° 30 x3 70° 60 x2 70	1/20 1 hle x3 1/20 1/20 x2 1/16	gtz-chl-carb-ser-cp gtz-cp carb x3 carb-gg gtz-sauc x2 gtz-sauc-chl-(mo?)-py	1%		405	50%	60%				.09%
							Not Defined		420		70° 10° 85° 30° 60° 30°	1/2 hle 1/8 1/4 1/16 hle	gtz-cp-py-chl sauc carb. chl-carb-gg. gtz-<chl>-<sauc>-<py>-<cp> gtz-carb-cp. gtz-chl-cp	5%		415	50%	90 95				.09%
							Not Defined		430		80° 70° x2 6° 5° x2 60° 5°	1/2 1/4 + 2 1/20 1/4 x2 1/4 1/8	chl-carb gg gtz-sauc x2 gtz-sauc gtz-chl-<py>-<cp> x2 gtz-chl-py gtz-chl-cp	5%		425	50%	95				.09%

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GIBRALTAR MINES LTD.

HOLE No. 81-21
SHEET No. 7 of 8

ROCK TYPES & ALTERATION: Qtz	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation, Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							80° V.V. WK		440		0° / 60x2 / 60° / 60° / 85° / 20x2 / 30	1/20 / 1/20 x 2 / 1/16 / 1/2 / hle / 1/8 x 2 / 2	qtz-carb-chl / qtz-sauc x 2 / qtz-py-cp / carb-gg / qtz chl-py>cp<cp> / Broken core w/qtz-py<cp> - carb gg	5%		435	47%	95%					.07%
							70° 80° WK		450		20° x2 / 5° / 60x2 / 80° / 20° / 15°	1/8 x 2 / 3 / 1/8 x 2 / 3/4 / 12" / 1/4	qtz-ser-py x2 / qtz-sauc / qtz-piedmontite / carb gg-broken qtz-chl-carb core / qtz ser-sauc / qtz-chl-py-cp	1%		445	60%	95%					.05%
							60° 80° WK to Med.		460		20° / 70 / 55° / 20° / 50 / 75°	hle / 2 1/2 / 1 / hle / hle / 1/2	qtz-chl-carb py / qtz-sauc / qtz-sauc / qtz-chl-py / qtz chl-py / qtz-sauc-lim-chl	5%		455	50%	90%					.05%
							Not Defined		470		70° / 30° / 70° / 20 / 25° / 55°	1/16 / 1/16 / 8" / 1/20 / 1/2 / 1/2	qtz-sauc / qtz-sauc-chl / qtz-chl-<carb>-<py>-<cp> / qtz-chl-ser-py-<cp> / qtz-chl-py-cp / qtz-chl-sauc-py-cp	5%		465	60%	90%					.09%
							Not Defined	479 - 493'	480		30° / 70° / 10° / 60 / 20° / 70° / 90°	1/4 / 1/8 / 1/4 / 1 / 1/8 / 2 1/2 / 1/2	qtz-chl-sauc / qtz-chl-ser-py / qtz-chl-py / qtz-carb-hem<cp> / qtz chl py / qtz-sauc-chl-carb-hem / qtz chl-carb-py	9%		475 476	47%	90%					.06%
							Not Defined	Sauc Alt^n / Qtz-rich Chloritic Phase	490		15° / 20° / 40 / 60° / 20x2 / 80° / 50°	1/16 / 1/8 / hle / 1/20 / hle x 2 / 1/4 / hle	qtz-chl-sauc-py / qtz-chl-py / carb-hem / qtz-sauc / carb-hem x 2 / qtz-chl-py / carb-hem	6%		486	15%	90%					.05%
							Not Defined	493 - 509' Sauc Alt^n	500		50 / 60° / 55° / 87° / 85° / 60° x 6	hle / 1/2 / 1/2 / 1/4 / 2 / hle x 6	carb-hem-lim / chl-qtz-py-carb gg / qtz-carb-<<cp>> / carb gg-hem / qtz-ser-chl-py / carb-chl + hem	5%		496	2%	95% / 80%					.05%

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GIBRALTAR MINES LTD.

HOLE No. 81-21
SHEET No. 8 of 8

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliations: Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY: Sample Number	% Cu	% Mo		Estimated % Grade
							80°			85°		1 1/4	qtz-carb-<serr> <py>			503							
										85		1/4	carb-qtz-kerr										
							U.					4"	Broken core-carb	5%			77	85%					.06%
							WK						qq										
									509	40°		1/8	qtz-chl-ser-<py> -<<mo>??			509							
						E.O.H. @ 509'								M.R. Schaumberger									

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GIBRALTAR MINES LTD.

HOLE No. 81-22
SHEET No. 1 of 9

LOCATION: Pollyanna
DATE COLLARED: April 29, 1981
DATE COMPLETED: May 1, 1981
BEARING: 0°
LENGTH: 567'
DIP: -90°
LATITUDE: 49 529.84 N
DEPARTURE: 54,849.22 E
ELEVATION: 4,130.01'
CORE SIZE: NQW
SCALE OF LOG: 1" = 10'
REMARKS:
LOGGED BY: GDW
DATE: May 5/1981

OX. DEPTH: 95'
SUP. DEPTH:)

Footage	ROCK TYPES & ALTERATION (Ols. / Plag. / K-Spar. / Mafic / Texture / Hardness)	∠ to Core Foliation	Foliation Alteration	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo	Estimated Grade
20	Casing to 20'								20						
30	MINE PHASE QUARTZ DIORITE (20'-336')	ND			5 5 50 x 3 60 x 4	1/10 1/10 1/20 x 3 1/20 x 4	lim lim lim lim	0	27	43	70				.05
40	Saus Alt'n Phase (20'-336')	ND			45 5 30 x 4	h/o 1/4 1/20 x 4	lim-Minor qtz-chl-lim qtz-chl-lim x 4	0	34	47	85 85				
50		ND			5 x 3 ? 30 40 x 4 5 + 30 x 3 5 60 x 3	1/20 x 3 2" h/e h/e x 4 1/4 + 1/10 x 3 1/8 h/e x 3	MnO_2 (qq) x 3 qq-bx MnO_2 lim x 3 + MnO_2 lim x 4 lim-qq lim x 3	0	41 47	23	95				.05
60		ND			60 x 3 + 45 x 3 60 20 20 x 4	h/e x 6 1/1 1/8 1/10 x 4	lim-MnO_2 x 6 qtz-lim qtz-MnO_2 (vug) lim-qq x 4	0	57	20	95 90				.05
70					10 10 x 2 + 40 x 4 5 20 x 3 + 46 x 2	12" 1/20 1/20-1/10 x 4 1/2 12" 1/10 x 5	bx (qq) MnO_2 MnO_2-lim x 4 qtz-chl-lim (vug) qq-lim lim-qq x 5	0	61	7	85				.05

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GIBRALTAR MINES LTD.

HOLE No. 81-22
SHEET No. 2 of 9

Rock Types & Alteration: Qtz.	Plag	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	Graphic Log: Foliation, Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Core Recovery %	Sample Number	Cu	Mo	Zn
						MINE PHASE Sous. Alt'n Phase (20-336)	ND		80		45? 45 x 4 + 60 x 3 50 5 60 x 3 45 x 5 50 x 2 + 80	12" 1/20 x 7 1/20 1/20 1/20 x 3 1/20 x 5 1/10 x 2 + 1/4	qtz-bx-qq lim x 7 lim lim lim x 3 lim x 5 lim-qq x 3	<.5		71 77	20	90				05
							ND		90		5 + 45 60 x 4 70 x 3 80 x 2 70 70 x 3 60 x 4	1/20 + 1" 1/10 x 4 1/20 x 3 1/20 x 2 1/10 1/20 x 3 1/20 x 4	lim + lim (qq) qq-lim x 4 lim x 3 lim x 2 lim-qq qtz-py x 3 qtz-py x 4	.5		86	40	95 98				05 X
							ND		100		60 5 45 45 x 2	2" 12" 1" 1/4 1/10 x 2 1" x 2	qtz-ser-py-lim qq-lim-bx qtz-chl-lim qq qtz-chl-py x 2 qtz-ep-chl	.5		93	13	80				05
							ND		110		50 60 x 2 30 80 x 3 80 20 x 2 80	1/8 1/8 x 2 1/20 1/10 x 3 1/4 1/20 x 2 1/10	qtz-py qtz-py x 2 qtz-py-qq qtz-py x 3 qtz-chl (py) qtz-chl qtz-py-cp (+ 1/4" ser envel)	.5		101 105	33	95 75				
							ND		120		70 x 2 60 x 5 50 x 2 45 45	1/4 x 3/8 1/20 - hle x 5 1/4 + 1/20 1/10 1/8	qtz-py ((cp)) ser x 2 qtz-chl-py x 5 qtz-ser-chl-py x 2 qtz-ser-py qtz-ser-py (cc)	.5		115	57	75				05
							ND		130		? ? 45 60 20 + 70 70 x 8 70 x 2 70 + 60	2" 2" 2" 1 1/2 1/60 x 2 1/30 - 1/8 x 8 1/4 1/4 x 2	qtz-ser-py qtz-chl (vug) qtz qtz-ser-chl-py (cp) qtz-chl-py x 2 qtz-chl-ser-py ((cp)) qtz-ser-py ((cp)) qtz-ser-py	2%		123 127	43	85				10
							ND		140		70 70 x 7 70 x 2 70 x 5 30 + 70 x 2 80 x 2 70 x 2 45?	1/8 1/20 + 1/10 x 7 1/4 x 2 1/10 x 5 1/10 + 1/8 x 2 6" x 2 1/10 x 2 10"	qtz-ser-py ((cp)) qtz-ser-py x 7 qtz-ser-py x 2 qtz-ser-py x 5 qtz-ser-py x - qtz-chl-cp x 2 qtz-ser-py (cp) x 2 qtz-chl-ep zone	2%		136	27	90				10

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GIBRALTAR MINES LTD.

HOLE No. 81-22
SHEET No. 3 of 9

Rock Types & Alteration: Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo	Estimated Grade
						MINE PHASE: Saus Alt'n Phase (20-336)	ND				70	1/10	qt3-py					97				
											10	3/8	qt3-py									
											70 x 8	1/10 x 8	qt3-ser-py									
											60 x 2	1/10 x 2	qt3-ser-py									.08
											70 ?	6"	qt3-chl-ep zone	2 o/o		146	23					
											3	1/4	qq									
											?	3'	qq+bx.									
									150		70	1/2	qt3-py ((cp))									
											70 x 2	1/4 + 2"	qt3-ser-py + qt3-chl-ep zone					90				
											60	8"	qt3-ser-py (cp)									
											50	3"	qt3-ser-py (cp)									
											50	1/8	qt3-ser-py (cp)									
											70	1/2	qt3-py (cp)									
							ND				60 + 80	1" + 1/2	qt3-ser-py x 2	3 o/o		155.5	23					.08
											50 x 4	1/20 - 1/10 x 4	qt3-ser-py x 4									
												14"	qt3-chl-py zone (even)									
											40 ?	10"	qt3-chl (py)									
									160		70 x 3 + 60 x 2	1/8 - 1/10 x 5	qt3-ser-py x 5					85				
											60	1"	qt3-py + chl-(cp)(Mo)									
											70 x 2	1/4 x 2	qt3-py x 2			163						
											40 + 45 x 2	1/20 x 3	qt3-py (cp) x 3									
											5 x 2 + 60	2" + 1/2 x 2	qt3-chl (wg) x 3									.10
							ND					1/8	qt3-chl-py	2 o/o			30					
											50	1/4 x 3	qt3-ser-py (cp) x 3		Ser. mainly occurs as envelopes.							
											45 x 3	1/8 x 5	qt3-ser-py (cp) x 5									
											85 x 5	1/4	qt3-ser-py					95				
											85	1/2	qt3-py ((cp))(Mo)									
									170		95											
											70	1/8	qt3-py-ser									
											70	1/8	qt3-ser-cp			173						
											70	1"	qt3-ser-py-cp									
											70	1/4	qt3-py (cp)(Mo)									
											70	2"	qt3-ser-py (cp)	3 o/o			33					.22
							ND				70 x 2	1" x 2	qt3-(cp)(Mo) x 2					90				
											45	2" x 2	qt3-ser-py (cp) x 2									
											60	1"	qt3-ser-py ((Mo))(cp) x 2									
											50	1"										
											20	1/4	qt3-ser-py-cp									
									180		50	1/10 + 1/4 + 1/2	qt3-ser-py (cp) x 3									
											70	12"	qt3-ser-py-cp zone									
											70 x 3	1/20 - 1/10 x 3	qt3-ser-py-cp x 3			183						
							ND				?	4'	qq+bx	1 o/o			23	70				.20
																189						
									190		60	1/8	qt3-py									
											5	1"	qt3-chl									
											50	7"	qt3-chl-ser (py) ((cp))					95				
											45	1/2	qt3-cp-py				50					.10
							ND				50	3/8	qt3-py (cp)	1 o/o								
											70	1/4	qt3-py			197						
											20	1/4	qt3									
									200													
											80 x 2	1/4 x 2	qt3-ser-py (cp)					90				
											70 x 2	1/10 x 2	qt3-ser-py-cp									
											70 x 5	1/20 x 5	qt3-py x 5				33					15
							ND				45	1/4	qt3-ser-py	2 o/o								
											80 x 3	1/2 x 3	qt3-ser-py x 3			207						
											50	1"	qt3-py (cp)									
											35	1/8	qt3-ser-py-cp									
											45 x 2	1/20 x 2	qt3-py-cp x 2									
									210		45 x 3	1/10 x 5	qt3-py-cp x 5									

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GIBRALTAR MINES LTD.

HOLE No. 81-22
SHEET No. 4 of 9

Qtz.	Plag	K-Spar	Mafic	Textures	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core	Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Recovery %	Sample Number	Cu	Mo	Au
						MINE PHASE Saus. Alt'n Phase (20-336)	ND		220		70 x 2 45 x 2 70 x 2 50 x 2 40 ? 80 80 80 50		1/8 + 1/4 1/10 x 2 1" x 2 1/10 x 2 1" 1 4" 8" 8" 1/4 3/8	qtz-ser-py x 2 qtz-chl-ser-py x 2 qtz-ser (chl) py (cp) x 2 qtz-py (cp) x 2 qtz-cp bx (gg) qtz-chl-cp zone qtz-ser-py ((cp)) zone qtz-py qtz-py	3 %		215	37	70				.30
							ND		230		70 x 3 60 x 2 50 50 x 4 70 x 2 5 80 5 80		1/10 x 2 1/20 x 2 1/4 1/10 x 4 1/4 x 2 1/10 1/8 1/10 1/4	qtz-py x 3 qtz-py x 2 qtz-ser-chl-py (cp) qtz-ser-py x 4 qtz-ser-py x 2 qtz-py qtz-py qtz-py qtz-py	2 %		225	40	90				.04
							ND		240		70 x 2 50 20 45 + 60 40 x 6 40 x 2 80 x 4 70		1/10 x 2 1/4 1/8 1/4 x 2 1/4 + 1/10 x 5 1/10 x 2 1/20 x 4 12	qtz-chl-py qtz-py-cp chl-cp qtz-py-cp x 2 qtz-py (cp) x 5 qtz-ser-py x 2 qtz-py x 4 qtz-ser-chl (py) zone	2 %		235	23	85 80				.15
							ND		250		50 x 5 5 5 + 90		1/10 x 5 1" 1/2 + 2"	qtz-ser-py (cp) x 5 qtz-chl ((cp)) (vug) qtz x 3	1 %		243 249	20	65				.08
							ND		260		20 x 3 30 60 80 80 60 x 2 80 40 + 80 80 + 45 x 2		1/20 x 3 1" 1/10 1" 1/2 1/4 2" 1/10 x 2 1/10 x 3	qtz-chl-py x 3 qtz-chl-py qtz-chl-py qtz-cp qtz-ser-py qtz-ser-py (cp) qtz-ser-py (cp) qtz-ser-py (cp) x 2 qtz-ser-py (cp) x 3	1.5 %		257	53	97				.15
							ND		270		80 70 x 2 70 70 x 5 80 70 x 3 30 x 3 80 30		4" 1/10 x 2 1/4 1/10 x 5 1/4 1/10 x 3 1/4 + 1/10 x 2 2 1/2" 5"	qtz-ser-py qtz-ser-py qtz-py (cp) ((Alo)) qtz-py x 5 py qtz-py-ser x 3 qtz-ser-chl-py (cp) x 3 py (massive) qtz-py (cp) ((Alo))	5 %		267	20	75 75				.25
							ND		280		30 5 x 2 + 70 x 2 70 5 + 5 = x 6		1/2 10" 1/8 x 4 5' 1/4 + 1/10 x 6	qtz-chl-py qtz qtz-chl-ser-py (cp) x 4 qtz-ser-py ((cp)) (includes 5" massive py) qtz-chl-py + qtz-ser-py x 6	7 %		271 278	10	60				.20

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GIBRALTAR MINES LTD.

HOLE No. 81-22
SHEET No. 5 of 9

Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo	Assay
						MINE PHASE Saus. Alt'n Phase (20-336)	ND		290		90 x 2 80 80 60 80 + 5 5 80 x 3 30	1/4 + 2" 1/10 1/10 1/8 1/4 + 1/8 1/4 1/10 x 3 1/2	qtz-py + qq qtz-chl-py qtz-chl-py qtz-chl-py-cp qtz-cp + qq qq qtz-cp qtz-chl-ser-py(cp)(Mo)	2%	bx core	283 290	10	70 70				.20
							ND		300		70 8 x 3 40 60 60 60 40 60 + 30 20	1/2 1/4 6" 14" 2" 1/4 1/4 1/8 x 2 1/2	qtz-ser-py(cp) carb ep qtz-chl-ep(py) qtz-py-cp qtz-ser-py(cp) qq cp + qtz qtz-ep-py	2%		300	30	95				.20
							ND		310		50 x 3 80 80 80 20 90 ? x 2 ? 30	1/4 + 1/10 x 2 1/4 1/4 16" 1/8 10" + 2" 4" 1/10	qtz-chl-py x 3 qq qq qtz-chl-ep-py zone qtz-chl-carb-py qtz-(cp) + qtz qq qtz-chl-py-cp	1.5%		310	57	95	5 4 3 7 6			.15
							ND		320		30 + 70 30 ? 60 x 3 20 30 35 80 + 10 40 + 10	1/8 x 2 1" 1/10 - 1/20 x 3 1/2 1/20 x 3 1/10 1/20 + 1/8 3/8 + 1/4	qtz-chl-carb-py x 2 qtz-chl-py qtz-chl-py qtz-py-cp qtz-py x 2 qtz-chl-py-cp qtz-chl-py x 2 qtz-py(Mo)(cp) x 2	1.5%		315 317	20	75 95	5 4 3 7 7			.10
							ND		330		20 30 + 90 20 60 10 + 40 ? 40 90 ? 5	8" 1/4 1/2 + 1/10 1/8 1/10 10" 1/2 + 6" 2" 8" 1/2	QFP qtz-chl qtz-chl (vug) x 2 qtz-chl-carb qtz-py-cp qq qtz-chl-py-cp (Mo) x 2 qtz-chl-cp qtz(cp) ← massive py with at least 1" cp blebs	1%		325 329	0	80 50	5 4 3 7 8			.80
							ND		340		30 x 2 40 x 2 80 + 30 40 x 4 45 40 + 60 x 3	1/8 x 2 1/8 x 2 1/20 x 2 1/10 x 4 2" 1" + 1/20 x 3	qtz-py(cp)(Mo) x 2 } ~mass. py in qtz S.S. hold qtz-py-cp x 2 qtz-chl-cp x 2 qtz-chl-py-cp x 4 qtz-chl-mag-cp qtz-chl-mag-cp + qtz-cp x 3	1%		335 338	7	80 60	5 4 3 7 9			.45
						MAJOR FAULT ZONE 336-373	ND		350				"solid" qq	?		343	0	65 2	5 4 3 8 0			?

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Rock Types & Alteration	∠ to Core Foliation	Graphic Log: Foliation, Alteration, Footage, Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo	Estimated Grade
MAJOR FAULT ZONE (336-373)	ND	360				?		353–358	0	40	54381	.11		?
	ND	370			"Solid" qq	?		367	0	55, 50	54382	.21		?
373								373						
MINE PHASE Saus. Alt'n Phase (373-435)	ND	380	30 x 2 50 45 30 45 x 2	1/4 x 2 1/4 1/2 3/8 1/20 x 2	qtz-cp x 2 qtz (ser)-py-cp qtz-py-cp qtz (cp) qtz-chl (cp) x 2	.5		380	17	75	54383	.?		.30
(core appears dark)	ND	390	20 20 + 30 20 30 x 4	3/8 3' 1/10 + 1/10 1/4 1/20 x 4	qtz-mag (cp) qq+bx qtz-chl-cp qtz-chl-py qq+hem x 4	.5		385 390	3	50 90	54384	.2		.20
	ND	100	25 20 30 x 2 80 20 25 30 20	1/2 1/2 3/4 + 1/10 1/2 1/10 3" 1/4 1/4	qtz-cp qtz-cp (Mo) chl-cp x 2 qtz-cp qtz-chl-cp qtz-chl-mag-cp-Mo qq+hem qq	.5		397	13	80	54385			.30
	ND	410	86 ? 70 + 5 80 45 x 2 5 30 45 30 5	1/4 1" 1/10 + 1/4 1/2 1/4 x 2 1/20 1/2 1/2 1/4 1/4	qtz chl-cp qtz-chl-cp x 2 chl-cp qtz-chl-py-cp (Mo) qtz-chl-py qtz-chl-py-cp qtz-chl-cp-Mo qtz-ser-py-(cp) qq	.5		404 410	20	80 70	54386	.21		.35
	ND	420	80 45 45 x 2 45 x 3 ?	1" 1" 1/10 x 3 1/10 x 3 5'	qq+ba qtz-py-cp qtz-chl-py-cp x 2 qtz-chl-py (cp) x 3 qq	.5		414 415	3	95 90 35	54387	.21		.20

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GIBRALTAR MINES LTD.

HOLE No. 81-22
SHEET No. 7 of 9

Qtz	Plag	K-Spar	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	Cu		
											?	3'	qq+bx (qtz-py(cp) frags)			421						
							ND				5	1/4	qtz-py(cp)					85				
											45	2"	qtz-chl-py(cp)	.5		426	27		54388		.1	.25
											5	1/4	chl-cp-py									
											5	1/4	chl-cp-py-mag									
									430		40x3+80x2	1/40x3	chl-cpx3					97				
											20	1/10	qtz-chl-cp									
											50	1/4	qtz-mag-cp									
											30	1/4	qtz-vug			433						
											30x3	1/20x3	qtz-chl-py(cp)x3	<.5								
						435					5+60	1/4x2	qtz-cpx3									
						FAULT ZONE 435-451	ND										7	60		.20	.01	20
						437-446 - poss. a faulted leucocratic phase.			440							440			54389			
							ND						qq+bx	?		446	0	30				?
									450									45				
						451										451						
						MINE PHASE Sous. Alt'n Phase (core appears dark)	ND						bx (qq)	?		456	3	50	54390	.1		?
									460									60				
						(451-480)	ND				10	16"	(qtz-ser) py-Mo (cp) (mass)									
												6"	qq(bx)									
											20x2+60	1/10x3	qtz-chl-py-cpx3	10%		465	7		54391	.21		.30
											45	1/10	qtz-chl-py(cp)			468		90				
									470		20x2+5	1/10x3	qtz-chl-py-cp									
											45	1/10x3	qtz-chl-cpx3					75				
											5	1/10	qtz-chl-cp									
												3"	qq+bx			475	3		54392	.27		20
							ND				20	1/10	qtz-chl-cp	.5								
						480			480		30	1/2	qtz-(Mo)(cp)					50				
						GRANITE MTN. PHASE ?? (480-567)	ND								highly broken core -structure obscur.							
											40	2"	qtz-py	?		485	3		54393	.1		?
																486		70				
									490		40	1/20	qtz-chl-cp									

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GIBRALTAR MINES LTD.

HOLE No. 81-22
SHEET No 8 of 9

Rock Types & Alteration: Qtz	Plag	K-Spar	Mafic	Testers	Hardness		∠ to Core Foliation	Graphic Log: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Assay Results: Sample Number	% Cu	% Mo	Estimated Mo
						GRANITE MTN. PHASE ?? (480-567)	ND		500		60 60	1/10 1/8	qtz-py qtz-chl-py(cp)	.5	highly broken pale grey vuggy barren-looking core - structure obscur.	492 496 499	0	60 75 60	54394	tr		.10
							ND		510		45	12" 1/10	qq qtz-cp	>.5		502 507	0	65 70 85	54395			.10
							ND		520		60? 60+30	16" 1/4 + 1/8	qtz-ep qtz-?-qtz-chl-py	>.5		512 517	3	95	54396			.10
							ND		530		60 40 x 5 50 30 x 2 30	1/4 1/10 1/2 1/10 x 2 3/4	qtz qtz-chl (cp) x5 qtz-chl (vug) qtz-chl x2 qtz-chl (vug)	>.5		528.6	33	90	54397	tr		.05
							ND		540		40 x 2 5 50 80 x 2	1/10 x 2 1/4 1/4 1/4 x 2	qtz-chl ep ep qtz	>.5	pale grey (~45% qtz) qtz-diorite	539	27	97	54398			.05
							ND		550		80 70 80 80 40	6" 3" 1" 3" 1"	qtz-ep qtz qq qq+bx qq	>.5	- numerous white qq zones - poss Granite Mtn Phase	547	7	90 97	54373			.05
							ND		560		5 60	1/4 2"	qq qtz-chl (vug)	>.5		552 556	7	80 85	54374			.05

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GIBRALTAR MINES LTD.

HOLE No. 81-22
SHEET No. 9 of 9

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo	Estimated Grade
											20	2"	qt/3			562						
							ND				40	1/4"	qt/3				10	70	54375	.09		
						567						3'	qg+bx			567						
											5	2"	qt/3									
						EOH 567			570													

Gary D. Bysouth

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GIBRALTAR MINES LTD.

HOLE No. 81-23
SHEET No. 1 of 8

LOCATION: POLLYANNA
DATE COLLARED: May 1, 1981
DATE COMPLETED: May 3, 1981
BEARING: 0°
LENGTH: 497'
DIP: -90°
LATITUDE: 49,248.82 N
DEPARTURE: 54,573.89 E
ELEVATION: 4,073.51'
CORE SIZE: N.Q.W.
SCALE OF LOG: 1" = 10'
REMARKS:
LOGGED BY: GDB
DATE: May 7-8 1981

ROCK TYPES & ALTERATION: Olt.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Sericite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Assay Results: Sample Number Cu.	Sample Number Mo.	% Cu.	% Mo.	Estimated Grade
						Casing To 12'			10														
																12							
						MINE PHASE QUARTZ DIORITE Saus. Alt'n Phase	80 WK		20		5+60×2 50×4 25+45 70×3	1/8+1/10×2 1/10×4 1"+1/4 hle×2	qtz-chl-lim ×3 qtz-chl-lim ×4 qtz-chl (vug) + chl lim ×3	0	End of lim. zone 125'	16	27	90					05
						(10 - 401') def. reduction in saus. occurs in better	80 WK		30		80 45 45×10 90+80+70 40×3 80 30+80×2	2" 1/10 hle×10 1/20×3 1/8×3 14" 1/20×2	qtz-pied-lim lim lim×10 lim×3 qtz-chl-lim ×3 qtz-ep-chl-lim (mal) qtz-chl-lim ×2	0		26	42	90					10 ox
						mineralized sections and is evident by darkening of core; but saus. is still present unless otherwise	80 WK		40		45×2+90 50×6 45×6 40 45×3 20×2 45×4 90+50 80×3	1/20×3 1/20×6 1/20×6 1/10 hle×3 hle×2 hle×2+1/4+1/10 1/4+1" 1/10×8	lim×3 lim×6 lim×6 qtz-lim-mal MnO2 mal×3 lim×2 lim-mal-MnO2×4 chl×2 qtz-MnO2-mal ×3	0		36	70	36					15 ox.
						noted in min. section (ie, qtz-chl-ser-py zones)	80 WK		50		20×3 40×4 20 ? 5×2 45×2 Cren 5-40'	hle×3 hle×4 1/4 2' 1/20×2 1/4×2 5'	MnO2×3 lim (mal)×4 chl-lim-qg pink QFP qtz-lim ×2 lim-qg ×2 qtz-chl-ep-carb (mal) zone	0		46	30	90					20 ox.
							10-60 Str. Cren		60		90 10+20+60 60 45×4 40 80×2 50	8" 3/8-1/8×3 hle hle×4 8" 1"+2" 12"	qtz-chl (vug) (mal) qtz-chl (vug) ((mal)) lim-mal lim ×4 qtz-chl (mal) qtz (mal) qtz-chl-lim (mal) zone	0		56	63	90 90					30 ox.

FORM 130-GSD. 1

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GIBRALTAR MINES LTD.

HOLE No. 81-23
SHEET No. 2 of 8

Rock Types & Alteration	∠ to Core Foliation	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	Cu %	Mo %	Estimated Grade
MINE PHASE: QUARTZ DIORITE (10'-401')	ND	70		70	6"	qtz(lim)(mal)·MnO2			66	47					.30
				70	8"	qtz-chl (lim)(mal) zone									ox
				60	7"	qtz-chl·py (cc) (lim) zone									
				80	1/4	qtz-lim (vug)	.5								
				80	1/8	lim-qg									
				45	1/8	qtz-chl-lim									
				5x2	hlex2	MnO2-lim-mal									
	ND	80		70	1/4	qtz-chl-lim			76	60	92				.10 *
				30x5	hlex5	lim x5									ox
				5	hle	MnO2									
				20+60	1/10x2	qtz-MnO2(vug)x2									
				60	3"	qtz-pied-chl	0								
				80x2	1/20x2	MnO2x2									
				30x2	1/20x2	MnO2x2									
				80	3"	qtz-ser-lim									
				45	1/10	qtz-chl-lim									
	ND	90		35	1/4	qg			86	17	85				.12
				20x3	1/20x3	lim x3									ox
				45x5	1/10x5	lim-MnO2									
				40	1/20	lim·mal									
				20x2	1/10x2	qtz-MnO2·mal	0								
				5x3	hlex3	lim x3									
				30x3+20+2	hlex5	MnO2-mal x5									
	70 Mod	100		20	# hle	MnO2			96	43	90				.25
				25x3	1/20x3	MnO2 (mal) x3									ox
				45x3	1/20x3	lim x3									
				45x10+20x2	hle-1/20 x12	lim x12	0								
				45x3	hlex3	lim x3									
				60	1/4	qtz									
				45x6+10x2	hlex8	lim x6 + MnO2 x2									
	70 WK	110		20-30x4	1/10x4	qtz-chl-lim x4			106	50	90				.15
				45	3/8	qtz-lim (vug)									ox
				60+20	hle x2	lim-mal x2									
				45+50	1/10+1/20	qtz-MnO2 + chl-lim	0								
				90x3	hle	MnO2									
				20	hle	MnO2									
	ND	120		40x4	hlex4	MnO2-lim x4			116	60	90				.10
				60	hlex2	MnO2 x2									ox
				45x5	1/20-hlex5	lim x5									
				70x3	hlex3	MnO2x3	0								
				20	1/10	qtz-chl-lim									
				20x3	1/20x3	chlx3									
				20x2	1/20x2	chlx2									
	ND	130		15x3	hlex3	lim x3			126	73	90				.10
				70x4	hlex4	lim x4									ox
				40	1/20	qtz-lim									
				50	1/4	qtz-lim	0								
				5	2"	QFP									
				20x2	1/4 + hle	qtz-chl-lim + lim									
				30	1/4	qtz-MnO2									
				30	1/4	qtz									

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-23
SHEET No. 3 of 8

ROCK TYPES & ALTERATION							∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo	Estimated Grade
Qtz	Plag	K-Spar	Mafic	Textura	Hardness																	
						MINE PHASE QUARTZ DIORITE (10'-40')	70 WK		140		30 80+70+50 60 60 50 30 20	1/8 1/4 x 3 1/10 3" 1/2 1/10 1/10	qtz-chl qtz (chl) x 3 qtz (vug) qtz-cp qtz-chl (vug) qtz-chl-(py) qtz-chl	0		136	70	90				.08
							60 Mod		150		20 10 50 50 50+60 30 60	1/10 1/20 1/10 1/20 1/10 x 2 2 9" 1/10 3/8	qtz-chl (vug) qtz-chl (py) mal-qq lim qtz-chl-lim qtz-chl-lim ep zone qtz-qq-chl qtz-chl-(py)(cp)	0		146	77	90				.10
							60 Mod		160		60 x 3 45 5 70 20+45 20+45 80+60	1/20 x 3 3/4 1/10 1/20 3/8 x 2 1/10 x 2 1/10 x 2	qtz-chl-py-lim qtz-(vug)-(lim) qtz-chl. qtz-cp qtz-chl (vug) qtz-cp qtz-lim	.5		156	57	92				.10
							60 WK		170		60 20 x 5 80+45 x 2 5 45 80 x 2 60 x 3	1/8 1/10 - 1/20 x 5 1/4 + 1/8 x 2 2" 1 1/4 1" 1/4 x 2 + 1"	qtz-cp qtz-chl (cp)(py) x 5 qtz x 3 qtz-chl-py (cp) zone qtz-chl qtz-chl (vug) cp x 3	.5		166 1/6	83	90				
							60 WK		180		50 20 50 50 60 60 x 2 50 70 60 50	1" 20" 1/2 1/2 1/2 1/4 x 2 1/2 12" 3" 3"	qtz qtz-chl (vug) ((cp)) qtz-chl qtz ((cp)) qtz-chl-py (cp) qtz (vug) x 2 qtz-py-cp qtz-chl-ep-(cp) zone qtz-chl qtz-chl-ser-py-cp	.5		177	57	90				.20
							30 str.		190		60+45+65 25 5 90+50	1" + 1/4 + 3" 5' 2" 19" 1/2	qtz + chl + qtz-chl (vug) qtz-chl-ep-ser-zone qtz-chl-ep (vug) qtz-chl-ep zone qtz-chl-(vug)			186	53	85				.05
									200		45 + 40 45+70 20 x 6 + 50 x + 43 30 x 4 40 x 1	3" + 1/2 hle x 2 1/20 x 6 + 1/10 x + 1/4 1/20 1/20	qtz-(chl) py-cp x 2 qtz-chl-sp x 2 qtz-chl-cp x 6 + qtz-chl-ep x + qq qtz-chl (cp) qtz-chl (cp)			196	57	85				.15

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GIBRALTAR MINES LTD.

HOLE No. 81-23
SHEET No. 4 of 8

Rock Types & Alteration: Qtz.	Plag.	K-Spar	Mafic	Textures	Hardness	Remarks	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Assay Sample Number	% Cu	% Mo	Estimated Grade
						MINE PHASE QUARTZ DIORITE (10'-401')	NP		210		10x2 30 10x2 45 20	1/20x2 2" 1/10 1/10 1/10	qtz-chl qq (cp)x2 qtz-cp qtz-chl (py) qtz-chl-py (cp) qtz-chl-py	.5		206	77	90	54401	.17	.001	.10
							ND		220		40x2 10 20x2+5 30 40x2 20	1/10+1/20 1/10+1/8 1/10x3 1/10 1/10x2 2"	qtz-chl-cp x2 qtz-chl-cp x2 qtz-chl-cp x3 qtz-chl-cp qtz-chl-cp x2 qtz-qq	.5		216½	37	90 85	54402	.36	.001	.20
							60 wk		230		30 30 30 40+45+60 80 70x3 80 30x2	1/10 1/2 2" 1/10x3 3" 1/10x3 1/4 1/10x2	qtz-chl-py qq qtz-cp-chl qtz-chl-py-cp qtz-cp qtz-chl-py x3 qtz-py qtz-py x2	1 o/o		224	50	85	54426	.11	.001	.10
							60 wk		240		20x2 45+60 40x2	1/10x2 1/10x2 12" 1/20x2 10"	qtz-chl-py x2 qtz-chl-py x2 qq qtz-chl-py x2 qq	broken core str. Obser. broken core str. Obser.	1 o/o	232 235 239½	27	70 65	54427	.09	.001	.08
							?		250		40 5 30 60 40 10-30 x 10	2½" 1/10 4" 1/8 1/8 1/20-1/8 x 10	qtz-ser-py (cp) zone qtz-chl-py (cp) qq qtz-chl-py qtz-chl-py (cp) qtz-chl-py (cp) x 10	2 o/o		246	70	85	54428	.14	.001	.25
									260		5x3 5 5x2 40 5 5 20x10	1/10x3 20" 1/10x2 2" 2" 3" 1/10x10	qtz-chl-py (cp) x3 qtz-ser-pied-py (cp) zone qtz-ser-py (cp) x2 qtz-py (cp) qtz-ser-py (cp) qtz-ser-py qtz-chl-py (cp) x10	6 o/o		256 260	73	90 90	54429	.14	.001	.35
									270		70x2 60 10x2+50x2 5x2 10x3 20x2	1/8x2 1" 1/4x2 + 1/10x2 1/10x2 1/4x3 1/2x2	qtz-chl-py (cp) x2 qtz-cp-pied qtz-ser-py (cp) x4 qtz-chl-py-cp qtz-ser-py (cp) x3 qtz-ser-py (cp) x2	3 o/o		267	63	85	54430	.26	.001	.30

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GIBRALTAR MINES LTD.

HOLE No. 81-23
SHEET No. 5 of 8

Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Blocks	RQD	Estimated % Recovery	Sample Number	% Cu	% Mo	Trace
						MINE PHASE (10' - 401')	20-40 Str.		280		10x2 + 50x2 20 - 40	1/4x2 + 1/8 + 2" 18'	qtz-chl-(ser)-py ((cp)) x 4 zone of closely spaced qtz-chl-ser-py (cp) veins up to 3" width-almost a solid alth zone	4 o/o		277	7	90	54403	? .32	.016	.25
							NP		290		20 x2 45 20 60 x2 80 80 20x2	1/4x2 2" 1/2 1/2x2 1" 1/2 6" 1/8+1/4	qtz-ser-py x2 qtz-ser-py (cp) qtz-ser-py qtz-ser-py x2 qtz-chl (vug) pied qtz-ser-py (cp) qtz-ser-py (cp)	3 o/o		284	27	80 95	54404	.10	.001	.20
							ND		300		20 +80x2 80 40x2 30 25 20 45x3 20	1/4+1/4+2" 1/2 1/10+1/8 1/4 2 1/2" 1/4 1/10x3 1/8	qtz-ser-py (cp) qtz-chl (cp) qtz-chl-pied-py x2 qtz-chl-py qtz-chl-ser-py qtz-chl-py qtz-chl-py-cp x3 qtz-ser-py-cp	3 o/o		294	37	95	54405	.12	.001	.15
							ND 10-30 Crev		310		20 20+50x2 50x3 40 70+45x2 80 70 30x4	1/2 1/10x3 1/10x3 3/8 1/10x3 1" 1" 1/2+1/10x3	qtz-ser-py qtz-ser-py-cp x3 qtz-ser-py-cp qtz-ser-chl-py (cp) qtz-chl-py (cp) x2 qtz-py qtz-py qtz-chl-py (cp)	3 o/o		303 307	47	95	54406	.11	.002	.30
							0-50 Crev		320		10x2+50 10x2+50 45+55	1/10x3 1/10x2+1" 12" 1/10x2 12"	qtz-chl-py (cp) qtz-chl-carb-py (cp) qq+bx qtz-chl-py x2 qq+bx	4 o/o		314	37	90 95	54407	.14	.006	.35
							0-50 Crev		330		0-50 Crev	14'	qtz-chl-ser-py (cp)(Mo) zone	6 o/o		324	10	90	54408	? .21	.010	.30
									340		20x4 20 20 50 60 10x50 10x2 45+30x3	1/4x4 3" 1/2 2" 24" 1" + 1/2 1/4+1/8 1" x3	qtz-ser-chl-py (cp) x4 qtz-py (cp) qtz-chl-ser-py-cp qtz-ser-py qtz-chl-ser-py-(cp) zone qtz-py-cp-Mo x2 qtz-carb-py-cp x2 qtz-ser-py-(cp)(Mo) x3	18 o/o		334 337	17	95	54409	.27	.010	.45

GRID _____ GIBRALTAR MINES LTD. HOLE No. 81-23 SHEET No. 6 of 8

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY: Sample Number	% Cu	% Mo	
						MINE PHASE (10'-401')	ND (but intense veining)		350		30x6+50x4 45 45 45x6 25x2+15 20+50x10 20 60? 45+50	1/10x8 3" 12" 1/10 x 6 1/4x2+1/8 1/4+1/10x10 3" 12" 4"+6"	qtz-chl-py(cp)x8 qtz-ser-py(cp) qtz-ser-chl-py(cp) qtz-ser-chl-py(cp) x6 qtz-carb-py-cp x3 qtz-carb-cp; qtz-ser-py(cp)x10 qtz-ser-py-cp qtz-cp-py(cp) qtz-ser-py(cp)	6 o/o	intense veining - impossible to accurately show	346	20	90	54410	.34	.020	.10 X
							40 Stv		360		70 30 25 40	12" 3/8 6" 1/2	qtz-ser-py(cp) qtz-carb-py(cp) qtz-chl-py-cp(Mo) zone qtz-cp	6 o/o		356	17	95	54411	.21	.011	.50
							45 Stv		370		45	15'	qtz-chl-ser-py(cp) zone	5 o/o		365	13	95	54412	.29	.176	.30
							ND		380		20 45x3 35x3 50 15x2 50 30+20+50x2	6" 1/8x3 1/10x3 1/10 1/10x2 1/4 12" 1/10x4	qtz-chl-py((cp)) qtz-ser-chl-py(cp) qtz-chl-py qtz-chl-cp qtz-chl-cp x2 qtz-cp(vug) qq+bx qtz-chl-cp	1 o/o		375	13	90 96	54413	[illegible]	[illegible]	.30
							ND		390		60 80 50 30 60 40 80 50	8" 1/2 1/2 1/4 1/4 3" 1/4x2+1/10 2"	qtz-chl-ser-(py)(cp) qtz-ser(cp) qtz-chl-cp qtz-ser-py(cp) qtz-chl-(cp) qtz-carb(cp)(vug) qtz-chl-cp x3 qtz-ser-chl(cp)	1 o/o		385/5	33	95	54414	.46	.020	.25
							ND		400		60+60 30 80 20 45 80+2+70+45 70x4+45x3 60x2 30+50 60x3	3/8+1/10 8" 8" 1/4 1/2 1/10x4 1/10x7 1/8x2 1/8x2 1/10x3	qtz-cp x2 qtz-chl(py)((cp)) qtz-chl-cp-py-cp zone qtz-py-cp qtz-ser-py-cp qtz-chl-cp qtz-chl-cp qtz-chl-cp qtz-chl-cp qtz-chl-cp	1 o/o		396	10	80	54415	[illegible]	[illegible]	.45
						401 FAULT ZONE (401-411)	ND		410		20 2	1/2 11'	qtz-py-cp 4' qq + 7' qq(bx)			401/5 406	0	90 50	54416	.31	[illegible]	

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GIBRALTAR MINES LTD.

HOLE No. 81-23
SHEET No. 7 of 8

Rock Types & Alteration	∠ to Core Foliation	Graphic Log: Foliation, Alteration, Footage, Structure	Vein ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Sample Number	Au	Ag	Cu
411								411					
MINE PHASE (Sous. Alt'n Phase) (411-420)	ND		45x2	1/20 + 1/10	qtz-chl-py x2								
			30	1/2	qtz-py				85	54417			.10
			?	3"	qtz-ep ((py)) zone	1%		415	3				
				3"	qq								
			?	2½'	bx (minor py veining) zone — structure obscur.								
420		420											
LEUCOCRATIC PHASE ?? (420-442) + zones of alt'd Mine Phase	ND		?	12"	bx (qq) (some qtz-py-cp frags)				90				
			70 x 45	1/2 + 1/10	qtz-ser-cp x2								
			30 x 3	3/8 + 1/20 x 2	qtz-cp (Mo) + qtz-chl-cp x2								
			45 x 3	1/10 x 3	qtz-chl-py (cp)	1%		424	13	54418			.20
			70	3"	qtz								
			5	2"	qtz-py-qq								
430		430							85				
			?	4'	qq + bx								
			45	1/10	qtz-chl-cp (Mo)	.5%		434	23	54419			.15
			50	14"	qq (bx)								
			20	1/10	qtz-chl-cp				95				
440		440	40	1/10	qtz-chl-cp			440					
442													
MINE PHASE (Sous. Alt'n Phase) (442-451)	ND		40 x 2	1/10 x 2	qtz-chl-cp x2								
			45 x 2	1/10 x 2	qtz-chl-cp x2				98	54420			.15
			20 + 30 + 20	1/10 x 3	qtz-chl-cp								
			30	3/8	qtz-chl-cp								
			45	3/8	qtz-cp	.5%			27				
			20	1/10	chl-cp			448					
450		450	20	1/10	qtz-chl-py (cp)								
451									60				
LEUCOCRATIC PHASE (451-497)	ND		45	1/8	qtz-py			453					
			60 x 3	hle x 3	chl-(cp) x3					54421			.15
			70	1/2	qtz-py	>.5%			7				
				2"	qq				85				
			5	1/10	py (cp)								
				2"	qq			458					
460		460							90				
			40	1/10	qtz-cp-Mo			463					
			60	1/10	qtz-chl-cp				80	54422			.08
	ND		60 + 30	2½" + 1"	qtz x2	>.5%		466	27				
			40	1½	qtz								
470		470							90				
			?	5"	qtz								
			?	1/2	qtz								
	ND		?	6"	qtz ((cp))	>.5%		475	15	54423	.15		.10
			20	2"	qtz-chl-vug (cp)								
			30	hle	chl-cp				98				
480		480	40	hle	chl-cp			480					

GRID _____ GIBRALTAR MINES LTD. HOLE No. 81-23 SHEET No. 8 of 8

ROCK TYPES & ALTERATION: Qtz	Plag	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo	Estimated Grade
							ND		490		40 70 70 x 2 5 50 x 2 60 x 2 5	2" 4" 2" + 1/4 hle 1/10 x 2 1/10 x 2 1/6	qtz qtz qtz x 2 chl-cp, qtz-chl-cp x 2 qtz (cp) x 2 qtz-cp-Mo	<.5		489	33	90	54424	.16	.003	.15
						EOH 497	ND		497		30 60 30 60 20	1/20 1/10 hle 3/8 1/20	qtz-chl-(cp)(Mo) qtz-chl(cp) Mo-cp qtz(vug) qtz-chl-cp	<.5		497	30	85	54425	.19	.020	.10

Gary D. Bysouth

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GIBRALTAR MINES LTD.

HOLE No. 81-24
SHEET No. 1 of 5

LOCATION: POLLYANNA
DATE COLLARED: May 4, 1981
DATE COMPLETED: May 5, 1981
BEARING: 0°
LENGTH: 296'
DIP: -90°
LATITUDE: 49,082.10 N
DEPARTURE: 54,976.67 E
ELEVATION: 4,060.69'
CORE SIZE: N.Q.W.
SCALE OF LOG: 1" = 10'
REMARKS:
LOGGED BY: W.D.T.R
DATE: May 8-12 1981

OX. DEPTH: 142'
SUP. DEPTH:

Ols.	Plag.	K-Spar.	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	REMARKS	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo		Estimated Grade
						Casing to 30'			30														
						Mine Phase Quartz Diorite	30 Mod.		40		5 40 10 30 20	6" hle 3/8" 1/2 hle 3/4 1/10	MnO2 qtz - ep - chl qtz - chl - ep - MnO2 MnO2 qtz - chl (Vug) MnO2 - lm	<.5	Limonite strong to 98' and weak to 142'	30 36	40	90	54451	.02	.001		.05 Ox.
							30 Mod		50		30 20 40 30 + 10 50 + 40 + 60 70 40	hle 1/2 1/10 hle + 1/10 hle x 3 6" 10" hle 10"	MnO2 qtz - chl - MnO2 MnO2 MnO2 x 2 MnO2 x 3 + MnO2 - lm x 2 gg + lm + MnO2 MnO2 + lm + gg MnO2 MnO2 - lm + chl	<.5		46	30	85	54452	.04	.001		.05 Ox.
							30		60		40 x 3 40 x 2 60 60 x 2 + 50 60 x 2 30 x 3 20 50 x 2 + 40 20 x 2 70 + 30 x 3	hle x 3 hle x 2 1/2 1/4 x 2 + 1/2 hle x 2 1/2 + 1/4 + 3/4 hle 3/4 + 1/20 + 1/4 hle x 2 hle x 3 + 1/10	lm (mal) x 3 lm x 2 qtz - lm qtz - chl - lim x 3 + mal x 1 lm - mal x 2 qtz - chl - lm - (MnO2) x 3 qtz - chl - (mal) - (lm) qtz - chl - (mal) x 3 + lm x 2 + MnO2 x 1 qtz + lm x 2 + mal x 1 MnO2 x 3			56	13	92	54453	.05	.001		.10 Ox
						QUARTZ - CHLORITE (EPIDOTE) - ZONE (61 - 171.5)	5-60 Str. Cren		70		70 ?	1/4 24"	ep qg + bx numerous vuggy qtz-lm (mal) veins		numerous small (hle - 1/20) veins of MnO2 - lm	65 92	37	85 92	54454	.14	.001		.10 Ox.
							5-60 Str. Cren		80		40 15	3" 3/4	qg - MnO2 - lm qtz - MnO2 - lm - (mal)			73 75	27	90	54455	.19	.001		.10 Ox

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-24
CT No. 2 of 5

ROCK TYPES & ALTERATION: Qtz.	Plag	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Checks	RQD	Core Recovery %	Sample Number	Cu %	Mo %	Estimated Grade
							5-60 Str. Cren		90		80 ? 70 75 30	2" 2" 6" 6"	qtz - MnO_2 - lm (vug) gg qtz - (lm) - (MnO_2) qtz - chl - MnO_2 - (cp)	.5	numerous small (hl - 1/10) veins of MnO_2 - lm several small veins and 'splotches' of py - cp	85	27	92 85	54456	.16		.15
							5-60 Str. Cren		100		80 x 2 10 ? 30 x 3	2" + 3/4 3/8 6" 3/8 + 1/2 + 1/4	qtz + (MnO_2) x 2 qtz - lm - (mal) gg qtz - ((cp)) x 3 + lm x 2	.5	At ~98' there is a switch to a paler green rock (more epidote) but it is still part of the same zone.	94	30	95	54457	.17		.15
							20-70 V. str. Cren		110		70	6"	qtz - chl - lm (vug)	.5	numerous qtz veins that occur as lenses within the foliation. There is also an increase in the number of large ep veins. - A few minor veins of cp - py - and some 'splotches' of cp - py	104	43	92	54458			.15
							20-70 V. str. Cren.		120		80 50 60 80	1" 1" 3/4 10"	qtz - chl - ep qtz - chl - ep qtz - chl - (cp) qtz - chl - (lm) vug	.5		114	70	90	54459	.6		.15
							20-70 V. str. Cren		130		70 + 60 + 40 30 + 75	1" + 3/4 + 1/2 1/4 + 3"	qtz - chl - ep x 3 qtz x 2	.5	At 126.5' there is a switch to a darker green rock due to an increase in chl with numerous qtz veins and distorted qtz lenses due to the foliation	124	80	95	54460	.6		.15
							20-70 V. str. Cren		140		60 + 50 85 70 x 2 40 + 50 60 5	2" + 1/4 3/4 1/2 x 2 1/2 x 2 6" 5"	qtz - chl - (lm) - vug - (gg) - (carb) x 2 qtz - chl qtz - chl x 2 qtz - chl x 2 qtz - chl - (cp) - (vug) qtz - chl - lm - ((cp)) - vug	.5		134	50	85	54461			.15
							20-70 V. str Cren		150		15 ? 70 30	1/4 2' 2" 3/4 3/4	qtz gg + bx qtz - chl - (lm) - (vug) qtz - chl - (lm) - vug qtz - chl - (cp) - vug	.5		141 145	13	85 80	54462	.6		.20

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-24
SHEET No. 3 of 5

Qtz	Plag	K-Spar	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo	Estimated Grade
							20-70 v. str. Cren.		160		35 ?	4" 12"	qtz-chl-ep-((cp))-vug gg + bx	.5%	numerous qtz-chl lenses with a few small cp blebs mixed in with the veins	152	43	90	544163	.04	<.001	.15
							20-70 v. str. Cren		170				numerous vuggy qtz-chl + ep veins	.5%		163	73	92	544164	.11	.002	.15
						171.5 MINE PHASE (171.5-181) (hem-stained 171.5-176)	20-70 Str. Cren		180		5 x 2	12" 12" 1½" x 2 1"	gg - bx gg - bx - (py) qtz-chl - py - ((cp)) x 2 gg + bx	1.0%	Small veins and blebs of py-cp mixed in with the gg-bx	173 180	7	80	544165	.30	.004	.20
						181 MASUR FAULT ZONE (181-207) (hem-stained 191-200)	N.D		190		45 10 ? 85	4 ¼ 10" 12" 1" 4'	qtz-chl-ep-py-(cp) qtz-chl-ep-py-(cp) gg-bx-(py) gg qtz-py-gg-bx-chl gg	1.5%	Much of the mineralization is in poorly defined badly distorted veins and blebs and is mixed in with the gg-bx	186	0	75	544166	.17	.006	.25
							N.D		200		30 + 26 ? 45	½ + ¼ 6" 1/8 5" 4'	qtz-chl-(py) x 2 gg + bx qtz-chl-py gg + bx gg + bx	1.5%		196	0	90	544167	.07	.004	.20
						207	N.D		210		? 40 x 3 + 30 40 + 75 + 10 + 70 ? 40 60 40 10 x 2 + 30	5' faulted chl-zone 1/8 x 3 + 1/10 ¼ x 2 + ½ x 2 6" 2" + 1/8 1/8 1/8 ½ + 1/10 x 2	gg + bx qtz-chl-py-((cp)) x 4 qtz-chl-py-gg-bx x 4 gg (faulted qtz-py vein) gg (qtz-chl-py-(hem) qtz-chl qtz-chl-py-(cp) x 3	2.0%		205	3	20 85	544168	.21	.045	.25
						MINE PHASE (207-272)	N.D		220		75 + 50 + 40 30 ? 35 + 10 x 2 + 5 30 ? 30 30	1/10 + 1/20 + ½ ½ 2' 1/8 x 3 + 1/10 1/20 8" hla 4" 1/8	qtz-chl-py-(cp x 3 qtz-chl-py-cp gg qtz-chl-py-cp x 4 qtz-chl-py-(cp) gg (faulted qtz-py veins) qtz-chl-py gg qtz-chl-py-((cp))-(gg)-(bx)	2.0		213	0	85	544169	.30	.028	.30

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GIBRALTAR MINES LTD.

HOLE No. 81-24
SHEET No. 4 of 5

ROCK TYPES & ALTERATION: Qtz	Plag	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation, Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	Cu	Mo	Au
							85 Mod.		230		30 ? 40 85 10+30+20 80	3/8 6" 8" 24" 1/4+1/2×2 1/2	qtz-chl-py qg qtz-chl-(py)-(cp)-vug-(qg) py-chl-carb-py-(cp) zone qtz-chl-py-cp×3 qtz-chl-py	2.0%		223	3	85	54470	.24	.014	.35
							75 Mod.		240		5 10+40 10 40×2 30 ? 20+10+40×2 60 40	1/10 1/10+1/8 1/8 2" 1/4+1/10 1/10 2" 1/10×2 3/4" 24"	qtz-chl-py qtz-chl-py-(cp)×2 qtz-chl-py-(cp) qg-bx qtz-chl-py×2 qtz-chl-py qtz-chl qtz-chl-py-(cp)×4 qtz-chl-(py) qtz-chl-py-cp-(qg) zone	2.5%	several veins of qtz-chl-py-cp distributed throughout the rock	234	3	85	54471	.19	.012	.40
							45-85 Weak to Mod.		250		40×2 75 40×4+60 ? 40 30×4 ? 20+50 ? 40 ?	1/10+1/4 4" 1/10×5 1" 1/10 1/8×4 2" 1/20×2 1" 1/20 2" 24"	qtz-chl-py×2 qtz-chl-(py) qtz-chl-py-(cp)×5 qg qtz-chl-py-(cp) qtz-chl-py×4 qg qtz-chl-py×2 qtz-chl-py qg qg+bx	2.5		244 250	7	80	54472	.11	.006	.35
							45-85 Weak to Mod.		260		20×2+30 ? 20+25×2 ? 20+4" ? 40×2+30×4+60×2 30 40 ?	2" 1/10×2+1/4 4" 1/4+1/8×2 4" 1/4×2 3" 1/4×4+1/8×4 12" 2" 12"	qg qtz-chl-py-(cp)×3 qg-bx qtz-chl-py-(cp)×3 qg qtz-chl-py×2 qg qtz-chl-py-((cp))×8 qtz-chl-py-cp zone qtz-chl-py-(cp) qg-bx	2.5	Considerable hematite stain throughout this section. A 12" zone with numerous qtz-chl-py-cp veins up to 1/2" width	256	10	80 80	54473	.29	.41	.45
							45-85 Weak to Mod.		270		30 ? 30 ? 30 ? 30 ?	1/2 4" 1" 6" 1/4 12" 1/2 24"	qtz-chl-cp qg-bx qtz-chl-cp-py-(carb) qg-bx qtz-ch-cp-(vug) qg-bx qtz-chl-py-(cp) qg-bx	3.0	A 10' zone with numerous small qtz-chl-py-cp veins	264 270	7	70	54474	1.27	.1—	.45
						MINE PHASE SAUC. ALTERATION (272-296)	N.D.		272 280				Broken core - carb. qg - <carb>-<hem> along fractures	?		276	0	90	54475	.45		?
							N.D.		290					?		286	3	85	54476	.14	.12	?

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GIBRALTAR MINES LTD.

HOLE No. 81-24
SHEET No. 5 of 5

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Matrix	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation: Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Blocks.	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo	Estimated Grade
						E.O.H 81-24	N.D		296					?		294 296		60 30	54432	.09	.002	?
											Gary D Byswitt											

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-25
SHEET No. 1 of 7

LOCATION	POLLYANNA	BEARING	0°	LATITUDE	49,150.10 N
DATE COLLARED	May 5, 1981	LENGTH	506'	DEPARTURE	54,977.71 E
DATE COMPLETED	May 6, 1981	DIP	-90°	ELEVATION	4,067.42'

CORE SIZE	N.Q.W.	LOGGED BY	G.D.B.
SCALE OF LOG	1" = 10'	DATE	May 8-11 1981
REMARKS			

OX. DEPTH 50'
SUP. DEPTH _____

ROCK TYPES & ALTERATION: Olt.	Plag.	K-Spar.	Mafic	Texture	Hardness	REMARKS	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Veins	Mineralization	Pyrite Zone	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						Casing to 40'			40						40							
						MINE PHASE QUARTZ DIORITE (40-107)	ND		50		5+50×5 50 50×6+20×2 45×3 60×3+10 50+20+10×2 50 70×4+45×2	1/20+1/10+1/20×4 1/10 hle×6+10×2 1/10×2 1/8×3+1/10 1/20×4 1/4 1/20×6	lim+qq×6 qtz-chl-(vug) lim×6+qtz(vug)-lim×2 lim-qq×3 lim-qq×3+lim lim×4 qtz(vug)lim lim×6	0	43	10%	80% 85%	82301	.11	.004		
						Saus. Alt'n (40-107)	ND		60		70 5 70 35×4 20×3 80 5+70×3 60 40	2" 2" 3" hle×4 1/8×3 2" 1/20×4 1/20 1/4	mass. py-lim qtz-lim qtz-ser-lim lim×4 lim-qq×3 qq qtz-chl-(py)(cp) qtz(cp) qtz-chl(cp)	2%	52 56	23%	80%	82302	.18	.006		
							40 Str.		70		45 20 50×2 60 ? 70 80 60	1" 1/20 1/4×2 1 1/2 2" 3/8 2" 1"	qtz-chl-(py)(cp) qtz-chl-(py)(cp) qtz×2 chl. qtz qtz qtz-chl-lim-(py)(cp)	>.5%	65	28%	85% 90%	82303	.19	.004		10
							60 Mod-		80		50 20 45×2 45 40×2 60 60	1/10 1/2 hle×2 1/10 3/4+1 1/4 hle hle	qtz-ep(py) qq+lim chl-py×2 qtz-chl-py(cp) qtz-chl×2 qtz-chl-py chl-py	>.5	75	47%	95%	82304	.10	.002	.08	
							ND		90		45 60×3 45 10 45 30	1 1/2 4+2×2 1" 1/4 6" 10"	qtz-chl-py((cp)) qtz-chl-ep×2 qtz-chl-py qtz-ser-py-lim qtz-ser-py zone qtz-ep	>.5	85	40%	95%	82305	.07	.002	.08	

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GIBRALTAR MINES LTD.

HOLE No. 81-25
SHEET No. 2 of 7

Rock Types & Alteration	∠ to Core Foliation	Graphic Log: Foliation, Alteration	Graphic Log: Footage	Graphic Log: Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Assay Results: Sample Number	% Cu	% Mo	Estimated Grade
	NO		100		45 40 45 30 90 90 60 70	1/2" 1/10 1/10 1/10 2" 6" 3"	qtz-chl (vug) qtz-chl-ep zone qtz-chl-py qtz-chl-py qtz-chl-py qq+hem qtz-ep-ser-chl(py) zone qtz-ser-py((cp))	1%		95	47%	95%	82306	.06	<.002	.10
	NO		110		35x2 60	1/8x2 8"	qtz-chl (cp)x2 qtz-chl-ep zone	<1%		105	20%	90%	82307	.10	.004	.08
QUARTZ CHLORITE (EPIDOTE) (SERCITE ZONE (107-136)	10-60 Str Crenu		120		70 90	2" 3"	ser-py qtz			115 119	17%	50%	82308	.08	.004	.12
	10-60 Str Crenu		130		60 60	3" 6" 1/2	qtz-ser-py(cp) qq qtz-ser-py-cp	1 1/2%		125	3%	55% 75%	82309	.21	.002	.20
136	60-80 Str Crenu		140		40 60 60+45 43+60 60	3" 1/10 1/10x2 1/10x2 1/10	qtz-ser-py((cp)) qtz-chl-py qtz-chl-py x2 qtz-chl-py x2 qtz-chl-py	1%		132	17%	90%	82310	.17	.002	.12
MINE PHASE Sans Alt'n (136-175)			150		40x2 90 80 35 40	1/10x2 1/4 1/8 1/10 1/8	qtz-chl-py(cp)x2 qtz-py qtz-py(cp) qtz-chl-cp qtz-chl-cp	1%		142 146 150	27%	75% 85%	82311	.05	.002	.12
			160		? 45 50x2 20 60x3 45	30" 1/10 1/4x2 1/10 1/10x3 1/10	qq+bx qtz-chl-py qtz-ser-py x2 qtz-chl qtz-chl-py x3 qtz-py			154.5	23%	75% 85%	82312	.03	.002	

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GIBRALTAR MINES LTD.

HOLE No. 81-25
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	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo	Estimated Grade
	ND	170		2 45 60 50 45	1/10 1/10 1/8 1/4 1/10	qtz-chl-py qtz-chl-py qtz-py qtz-py(cp) qtz-chl-py	1½%		164.5 170	17%	87.5%	82313	.05	.006	.10
175	ND	180		60 60x2	1/2 1/10x2 30"	qtz-py(cp) qtz-chl-py (qq)-bx	1%		175 179	7%	70% 60%	82314	.11	.002	.10
QUARTZ - CHLORITE BANDED ZONE	5 str			5											
190	5 Green Str	190		5	15'	min dissem py along foln planes	1%		186	3%	75%	82315	.07	.002	<0.10
MAJOR FAULT ZONE (190-220)		200							196	0%	76% 50%	82316	.08	.004	
		210				"Solid" qq 192-213, qq-bx 213-220, much py-rich leucocratic phase @ 215-220'			206	0%	80%	82317	.20	.006	
		220					5%?		216 220	0%	75%	82318	.19	.008	
MINE PHASE (220-238)		230		35x3 60 30x3? 50x6 50x3 60x4	1/10x3 2" 1/8x3 1/10x6 1/8x3 13" 36" 1/10x4	py(cp)x3 qtz-ser-py((cp)) qtz-ser-py((cp)) vug x3 qtz-ser-py((cp)) x6 qtz-ser-py(cp) x7 qq-hem qq+bx ser-qtz-cp x4	5%		227	0%	60% 85%	82319	.21	.012	20

GRID _____ GIBRALTAR MINES LTD. HOLE No. 81-25 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	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY Sample Number	% Cu	% Mo	Estimated Grade
											60 30 + 70 x 4 70 60 80	3/8 1/10 x 5 8" 1/8 " 30' 3"	qtz-ser-cp qtz-ser-cp x 5 qq. qtz-py qtz-ser-py (cp) qtz-mag-cp	3 %		232 238	0%	80%				40
						238			240													
						MAJOR FAULT SYSTEM (238 - 279): - alternating 1-3' qq and bx zones			250					2 %		245	0%	60% 75%				30
									260		?		Frags indicate a "fragmented ore system"	1 % ?		251 269	0%	75%				20
									270					?		266	7%	60% 80%				?
						279			280					?		272 276	0%	50% 80%				?
						MINE PHASE (Sous Alt'n) (279 - 342)	20 str		290		5 90 60 35 x 3	1/2 1/4 1/4 x 3 1/10 x 3	qtz-py qtz qtz x 3 qtz-chl-py	1 %		283 287	0%	80%				10
							30 wk		300		70 ? 35 x 2 20 60 70 30 x 3	1/2 1/4 x 2 1" 1/4 3/8 2" x 10	qtz-py (vug) qtz-x2 qtz-chl ((cp)) (vug) qtz qtz qtz-chl (py) x 3 qtz	1 %		297	10%	80% 80%				10

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GIBRALTAR MINES LTD.

HOLE No. 81-25
SHEET No. 5 of 7

ROCK TYPES & ALTERATION: Sil.	Flog	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo	% Zn
							30 WK		310		45 55 10 3x5 20x3	1/10 2" 1" 1/10x5 1/10x3	qtz-chl qtz((cp)) -vug qtz carb-qq-hem carb-qq-hem	.5		301 305 309	7%	60% 60%				.08
							30 WK		320		10-30 x 6 30x2 60 20+90 20+70 70	hle-1/20 x6 1/10x2 1" 1/4x2 1/10x2 1/10	hem x 6 qtz-chl x2 qtz-chl-vug qtz-chl x2 carb x 2 qtz-chl-py	>.5		312 319	17%	75% 80%				.05
							30 WK		330			36"	qtz (finely ground but intact - almost a powder)	>.5	finely ground core - soft, gougy but appear to have undergone little deformation	324	0%	75% 70%				.05
							20 WK		340		30 45x3 50 60x2+5 50 5+40	1/10 1/10x3 1/4 1/4x2+1/8 1/4 1/4+1"	qtz-chl-py qtz-chl-py x3 qtz-carb-chl-cp qtz x3 qtz qtz-chl x2	.5		331	10%	90%				.12
						342	10-60 Str Crev		350		45 70 15+80	1" 1/8 1/2x2	qtz-chl-py qtz-py(cp) qtz-carb	.5	QUARTZ-CHLORITE (SER)(EP) ZONE (342 - 379)	341 346	57%	90%				.10
							0-80 Ctev		360				numerous qtz-lenses, veins, + clots up to 24" thick.	.5		356	0%	85% 90%				.10
							0-80 Crep		370				- highly broken gougy core.	.5		362 369		85% 90%				.10

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GIBRALTAR MINES LTD.

HOLE No. 81-25
SHEET No. 6 of 7

Rock Types & Alteration	Footage	Structure	Vein ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Stocks.	RQD	Estimated Core Recovery %	Sample Number	% Cu.	% Mo	Assay Interval
Cren 0-80	380					5		371 374	7%	60% 90%				.10
MINE PHASE (Sauc Altn) (379-418) 30° Stv	390		60 70 70 x s 70 80 80 x 2 80 65	1/2 6" 3/4-1/2 x s 12" 3/8 1/2 x 2 14" 2"	qtz qtz-chl (vug) qtz-chl. qtz-chl. zone qtz qtz x 2 qtz-chl. qtz-chl	>.5		384 390	3%	85%				.05
30° Stv.	400		65 70 40 ? 45 45? 30	1/8 1/8 1/10 8" 2" 14" 3'	qtz-chl-pied-py qtz-chl-py qtz-chl-py qtz-chl-py (vug) qtz-chl-py qtz-chl-zone qtz-chl-ser (py)((cp))((Mo)) zone	1.0		396	13%	85%				.10
30° Stv.	410		5	6" 8'	qtz-chl Dt (qq) - Crushed zone (powdery qtz veins) - pass Fault zone	.5		404 407	0%	90% 65% 50%				.08
5-50 s Mod	420		5 50 45 30	24' 3/8 1/4 3"	qtz-chl-pied zone qtz-chl. qtz-carb qtz-chl-py			412	30%	90%				.05
QUARTZ-CHLORITE (SERICITE) ZONE (418-442) Cren 0-80 Folded	430				highly contorted broken gouge zone	1%		422 427 430	0%	85% 60%				.12
Cren Folded 0-80	440					1.5%		436 440	0%	85% 70%				.12

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GIBRALTAR MINES LTD.

HOLE No. 8-25
SHEET No. 7 of 7

ROCK TYPES & ALTERATION							∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY: Sample Number	% Cu	% Mo	Estimated Grade
						442 MINE PHASE? (442-506)	NP		450		5 80+65 ? 80x2	1/8 1/8x2 30" 1/8x2	qtz-chl-carb (cp) py qtz-carb Q.F.P. qtz-carb x2	5		446	13%	75%				.08
						Core appears finer grn. & texture is indistinct (alt'n?) - almost approaches (leucocratic phase).	ND		460		45+70 10 25x2 30x2	13" 1/8x2 1/2 1/20x2 hle x2	qq(bx) qtz x2 qtz-ch(vug) qtz-chl x2 chl x2	<.5		454	27%	85% 85%				.05
							ND		470		5 70	1/4 2"	qq qtz-ser(py)	<.5		462	17%	90%				.05
							70 Mod		480		80 50 50 45 ?	3/8 1/2 3" 3" 4'	qtz py qtz-chl (vug) qtz-ep qtz-chl-ep (dense) zone	<.5		472	33%	90%				.05
									490		? 70 40+35	36" 10" 6" + 1" 3'	qtz-chl-ep zone (sl. purple) qtz qtz + qtz-chl QFP.	<.5		482 488	13%	85%				.05
									500		60 60 60+40 45 40x2 50	1/20" 12 2"+1" 1" 1/2x2 15"	qtz-cp QFP qtz x2 qtz qtz qtz-chl-ser. zone	<.5		496	30%	85%				.05
						Gary D Bysouth 5.06 EOH 506.					60 ? 40? 60? 30	3" 24" 6" 1/2 3/8	qtz qq-bx - qtz-ser-py zone QFP qtz qtz			506		90%				

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-26
SHEET No. 1 of 7

LOCATION Pilgrim N.T. East
BEARING 0°
LATITUDE 49,033.10 N
CORE SIZE N.Q. Wireline
LOGGED BY [illegible]
DATE COLLARED May 7, 1981
LENGTH 521
DEPARTURE 55,323.67 E
SCALE OF LOG 1" = 10'
DATE May 11-14, 1981
DATE COMPLETED May 9, 1981
DIP -90°
ELEVATION 4,061.55'
REMARKS

OX. DEPTH 60'
SUP. DEPTH

Olt.	Plag.	K-Spar.	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	REMARKS	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						Cased to 50'			0 50		C.B.												
						MINE PHASE QUARTZ-DIORITE 50-115' -Smc. Alt^n	Not Defined		50		60 x 2 / 45 X 2 / 70° / 60+70°	3' / 3/4 X 2 / 1/4 + 1/2 / 1/4 / 1/2 x 2	Broken core - lim. along fractures. / qtz-chl-cp-py-mo x 2 / qtz-chl-cp x 2. / qtz-ser-chl-cp. / qtz-chl-<py>-<cp> x 2	1%	Str. Lim Alt^n to 53 / WK " " to 60'	53 / 59	47%	65% / 75%					1.8%
							Not Defined		60		60° / 5° / 45° x 2	12 / 1/4 / 1 / 1/8 X 2	Broken core - gg - <py> - <cp> - <cc> / qtz-chl-ser-cp / qtz-chl-cp-py / qtz-chl-cp x 2	1%		66	13%	80% / 80%					1.9%
							Not Defined		73		60° / 65° / 5° / 40° / 10° / 45°	8" / 1/4 / hee / 1/16 / 1/2 / 1/4	qtz-chl-ser-<py>-<cp> / qtz-chl-py-<<cp>> / qtz-ser-py-chl / qtz-ser-<cp> / qtz-ser-chl-py / qtz-chl-ser-py-cp-mag	1%	"	73	17%	90%					1.5%
							70-80° WK to Mod.		90		75° X 2 / 60 / 70° / 45° / 60° X 2 / 60°	3 X 2 / 2 / 1/2 / 1/2 / 1/2 + 1/8 / 3/8	qtz-ser-<chl> - <py> X 2 / DK alt^n - qtz-chl-ser-<pied> - <cp> - <py> / qtz-ser-chl / qtz-ser-chl-cp-py / qtz-ser-chl-cp x 2 / qtz-mag-<py> <cp>	3%		83	43%	90%					[illegible]
							80° v WK to Not Defined		93		5° X 3 / 70° / 70° / 65° / 70° / 80 X 2	1 X 3 / 1/8 / 3 / 1/2 / 1/4 / 1/20 X 2 / 5	qtz-chl-py-cp-<<carb>> - <<cc>> ? X 3 / qtz-chl-ser-cp / qtz-chl-ser-<cp>-py / qtz-ser-chl-<cp>-<<mo>> / qtz-chl-cp / Broken core - gg	2%		93	30%	85%					2.3%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-26
SHEET No. 2 of 7

Qtz	Plag	K-Spar	Mafic	Textures	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo	Assay Au
										45°		1/8	qtz-chl-py-cp			101						
										30°		6	Broken core - kaol. gg.					80%				
							Not			20°		6	qtz - ser - pied - sanc - chl-									
										60°		1/4	qtz-chl-py	1%		106	3%					.07%
							Defined					1/2	qtz-chl-<py>>									
									110	30°		6	Broken core - qtz-chl-py					90%				
										30°		6	qtz-chl <cp> py									
							30-			20°		2	qtz-sanc.			113						
							85°			30°		8	qtz-chl. vuggy	.5%								
						115 - 160°	Mod.			30°		3	qtz-chl-sanc-cp				53%					.13%
						Sanc Alt^n / qtz.	to			30°		7	qtz-chl-sanc-cp-vuggy									
						Chl Alt^n	Str.			70°		4	qtz-chl-sanc-cp.					95%				
									120	70°		3	qtz-chl-sanc-cp-<py>									
										45°		5	qtz-chl-ser-<cpt-<carb>-vuggy			123						
							Not			50°		2	ser-gg.									
										5°		1/4	qtz-chl-cp.				40%					
							Defined			30 X3		1/16 X3	qtz-chl-py-cp	.8%		127		90%				.10%
										30 X3		1/8 X2 + 1/16	qtz-sanc.									
									130	45°		1/2	qtz-chl-py					80%				
										10°		1/16	gg.			132						
												10"	Graphitic-cp-qtz-chl-<py>									
							Not			30°		1/16	qtz-chl-py									
										60°		2 1/2	qtz-ser-chl-cp				23%					.18%
							Defined			50		1/16	qtz-ser-chl-cp	.8%				90%				
										40		1/4	qtz-py-chl.									
									140	70°		2	qtz-chl-ser-py-cp									
										70°		1/4	qtz-chl-cp			142						
										40°		1/8	qtz-chl-<cpy>-<cp>	.8%								
							60°			30		1/4	qtz-ser-chl-<cp>-<py>					85%				
							wk			70° X2		1" + 8"	qtz-ser-diseminated cp-chl. X2 +			146	30%					.18%
							to			50		1/20	qtz-ser-cp.									
							Mod.			60°		1/2	qtz-ser-chl-cp-<py>									
									150	50° X2		1/8 X2	qtz-ser-chl-cp-py X2									
										70°		1/16	qtz-ser-cp.									
										45		1/2	qtz-ser-<carb>-<chl>					95%				
										80°		1	qtz-ser-chl-carb-cp.									
							60°			5		1/4	qtz-carb-chl-cp	.5%								
							70°			55°		1 1/2	qtz-chl-ser			156	13%					.08%
							wk			80°		1	qtz-ser-<chl>-<sanc>-<py>>									
							to			70°		1/4	qtz-chl-ser-cp.									
							Mod.		160	70°		1	qtz-ser-chl-graphitic-sanc					95%				
						160 - 180'				50°		5	qtz-ser-chl-py-pied.									
										75°		2	qtz-ser-chl-cp-sanc-			163						
						Qtz-rich Phase	75°			70°		3	qtz-ser-chl-py-<cp>-pied.				33%					.03%
						/ chloritic	80°			25		1	[illegible]									
										45°		1	qtz. chl-carb-<py>-<cp>					95%				
							Mod.		170			6	ser-carb-[illegible]			170						

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-26
SHEET No. 3 of 7

Rock Types & Alteration	Core Angle / Foliation	Graphic Log: Foliation, Alteration, Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Assay: Sample Number	Cu %	Mo %	Estimated Grade
	85° Mod.	180		60° x 3	8' / hle x 3	Broken core - gg - carb term. / chl - qtz - py - cp x 3	8%		178	3%	50%				.08%
180 - 219' Same Alt'n, Quartz enriched w/ minor darker chloritic	80° 80° w/10	190		30° + 60° / 60° / 10° / 85° / 85° / 60° / 60°	1/16 x 2 / hle / 1/4 / 1/20 / hle / 3/4 / 1/8	qtz - carb - chl. x 2 / qtz - chl - (cp) / carb. gg / qtz - chl - cp / qtz - chl (cp) / qtz - carb - cp / qtz - chl - carb - cp.	7%		186	47%	90%				.13%
Bands	Not Defined.	200		5° / 60° / 30° / 80° / 55° / 60 x 3 / 30°	15 / 1/8 / 2 / 1/2 / 1/2 / hle / 1/8 x 2 + 1/16 / 1/4	Broken core - (carb) - (cp) - (py) / qtz - cp. / qtz - ser - carb - chl - py / qtz - chl - carb - (cp) / qtz - chl - carb - ~~ser~~ - cp. / chl - cp / qtz - carb - py - (chl) x 3 / qtz - carb - py	1%	minor coring	196	20%	95% / 95%				.15%
	80° v. wk. to Not Defined	210		5° / 75° / 50 / 60° / 50° / 85 / 30°	1/16 / 2 x 4 / hle / 1/2 / 1/20 / 1 / 3 / 1/2	qtz - cp. / Broken core - carb - gg. / ser - chl - cp - (carb) / qtz - carb - do. / qtz - ser - chl - cp / qtz - chl - carb - py - cp / Broken core - carb gg. / qtz - carb - cp.	1%		203	37%	90%				.15%
219 - 243	81° v.wk. to Not Defined.	220		80° / 78 / 70° / 80° / 60°	1 / 1/4 / 1/8 / 12 / 1/2 / 1/20	chl - qtz - cp. / qtz - ser - (chl) - (cp) / qtz - ser - chl - cp. / Broken core - qtz - carb - carb gg. / qtz - carb - (chl). / qtz - chl - cp	1%		213 / 220	43%	75%				.12%
Qtz-rich Phase? / Qtz-Ser-Chl-(carb) Zone	60° 80 Mod. to Str.	230		85° x 2 / 25° x 3 / 60 / 60 - 80 / 75° / 85°	1/20 x 2 / 1/16 x 3 / 1/2 / 20° / 1/2 / 1/16	qtz - chl - cp x 2. / qtz - carb x 3 / qtz - carb - py / qtz - ser - chl - carb - (py) - (cp) / qtz - (cp) - ((carb)) - ((chl)) / qtz - chl - carb - py - cp	1%		229	17%	85%				.15%
	30 75° wk to Mod.	240		30 x 2 / 70° / 70 / 65 / 70	1/8 x 2 / 1/8 / 1 / 1/16 / 1/16	qtz - chl - carb - py - cp x 2 / qtz - chl - ser - cp. / qtz - (carb) - (chl) / carb - qtz - chl - py / cp - chl - ser - qtz	8%		237	23%	90%				.16%

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GIBRALTAR MINES LTD.

HOLE No. 81-26
SHEET No. 4 of 7

Dis.	Plag.	K-Spar.	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation-Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo	Estimated Grade
						243 - 276 Same Alt^n / Qtz rich Phase	Not Defined			0			Vug infilled w/ qtz-chl-carb									
										5°		1-2" ?	qtz-chl-carb-<cp> infilling					90%				
														5%		247	23%					.13%
										5°		1	qtz-chl-carb-<lim>									
									250	75 x 2		hle x 2	qtz-chl-cp x 2									
										80 x 4		wb x 4	qtz-chl-<<cp>> x 4					90%				
							80° wk to Mod.			70 x 2		1 + 3/8	qtz-carb x 2									
										30°		3/8	qtz-carb-<cp>									.08%
										80°		1 1/2	qtz-ser-carb-<lo>	1%		257	33%					
										70°		1/8	qtz-ser-chl-py									
									260	60° x 2		1/8 x 2	qtz-<cp> x 2									
							80° wk to Mod			80°		1 1/4	qtz-carb-chl-ser					95%				
										70°		1/4	qtz-carb-chl-<py>	.6%								
												12"	Broken core - carb gg			265	17%					.05%
										70		2"	Leucocratic Phase / Qtz-ser zone - chl - carb - qtz									
										50°		1/20	qtz-chl-py									
									270	70°		1/4	qtz-<carb>-<chl>					90%				
							70° wk to Mod			30° x 2		1/20 x 2	chl-qtz-ser x 2			273						
										75 x 2		1/2 x 2	qtz-pred-chl x 2									
						275 - 440 Same Alt^n				60°		1/16	qtz-plag	.5%			50%	95%				.05%
										20°		1/8	qtz-carb-<chl>-<<cp>>									
									280	30°		1/2	qtz-chl-carb			280						
							80° wk			60° x 3		1/4 x 2 + 1/20	qtz-carb-chl x 3									
										55°		1/2	qtz-carb>									
										80°		1/2	carb gg	.5%			50%	90%				.05%
										70		1/4	qtz,									
									290	80		1/2	qtz-ser-chl>-py			290						
										10°		hle	carb.									
							70° 80° wk to Mod.			70		1/4	qtz-carb-chl.	.8%								
										80°		1/4	qtz-ser-chl-py				27%	85%				.05%
										70°		4	qtz-carb-chl-<<mag>>									
										70		1	qtz-carb-<py>			297						
									300	15°		hle	carb-fem									
										20° x 2		hle x 2	carb gg									
							80° Mod to Str.			35		1/8	qtz-chl-carb	.5%				90%				
										75 x 2		1/4 x 2	qtz-pred x 2				40%					.09%
										80°		3/4	qtz-mag-<carb>-<<cp>>			307						Good
										80 x 2		1/2 x 2	qtz-chl-ser-carb-cp x 2									MO
									210	60		2	Broken core - carb gg			310		90%				
													Qtz-carb-ser-<<mag>>-<cp>									

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GIBRALTAR MINES LTD.

HOLE No. 81-26
SHEET No. 5 of 7

ROCK TYPES & ALTERATION: Qtz. / Plag.	K-Spar.	Mafic	Textures	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Assay No. Sample Number	% Cu	% Mo	Estimated Grade
									80°		3/4	qtz-sanc-pied									
						70°			65°		1/8	qtz-chl-ser-cp									
						wk			60		1 1/4	qtz-chl ser-sanc-pied. -<<py>>				37%	95%				.08%
						to			80		1/16	qtz. chl-py	.6%								
						M. L.			85		1/8	qtz-chl.									
								320	80°		2	qtz-chl-ser-sanc -<cp>			320						
									80° X4		3/8 x4	qtz-<carb> -<<pied>> x4									
						80°			85°		2	qtz-chl-carb -<qq> - <<<cp>>>									
						80			75°		1/2	qtz-carb <pyz>	.6%			17%	95%				.07%
						Mod			70°		1 1/2	qtz-carb-<chl> -cp-									
						to			80°		1/4	qtz-pied-sanc-carb-chl.									
						Str.		330	85°		1/2	qtz-carb-<py>-<<ch>>			330						
									65°		1/4	qtz-chl-<<py>>									
						80°			70° x2		1/16 x2	chl-py x2					85%				
						85°			65°		1/8	carb-qtz-chl-py	1%								
						wx			5		1/8	qtz-carb			336	10%					.10%
						to			60°		1/8	qtz-ser-chl-cp.					90%				
						Mod.		340	10°		1.1c	carb									
									80°		1/16	qtz-ser-py			342						
						70°			80°		3/4	qtz-carb-(ser) - ?chloritic mud? -<cp>.									
						80°			70°		1 1/2	qtz-ser-py-carb									
						w wk.			70°		1 1/2	carb-qq				20%					.0
						to			45°		1	qtz-chl-carb-cpy	1%				90%				
						Not			30x2		but 1/16	qtz-chl-ser-py x2									
						Defined		350	20°		1/8	qtz.									
									65°		3	qtz-ep-chl.			352						
						80°			30		3/4	qtz-chl-carb.									
						v.			60		1/2	qtz-chl-carb	.5%		357	20%	90%				.05%
						wk.			25°		1/4	qtz carb									
								360	30°		1/2	qtz-carb-chl.									
									30		1/16	qtz-<chl>									
						70°			65		1/16	qtz-ep-<py>					90%				
						wk			60°		3/8	qtz-ser-chl-py	.8%			57%					.09
						to			70 x3		1/2 x3	qtz-carb x3			367						
						Mod.			30°		1/16	qtz-carb-cp									
								370			12	Broken core - cavings									
									45		1/16	qtz-sanc-chl.					90%				
						60°			30		1/8	chl-carb-py									
						70			60		1/8	qtz	1%			50%					.11%
						Mod.			50°		1/4	qtz-carb-py-chl.			375						
									45°		1 1/2	qtz-carb-ser-py -<cp>					90%				
								380	45°		1/16	qtz-chl-carb-py			380						

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GIBRALTAR MINES LTD.

HOLE No. 81-26
SHEET No. 6 of 7

ROCK TYPES & ALTERATION: Qtz	Plag	K-Spar	Mafic	Texture	Hardness		L to Core Foliation	Foliation Alteration	Footage	Structure	Veins L to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo	Estimated Grade
							60° 70 v.wk + Not Defined		390	A	75	3"	Broken core - carb - gg		?? granitic cobbles ??	383		85%				
											55	1/4	qtz-carb-chl-py-sil									
										A		1/2	qtz-chl-ser-py									
											15°	2	Broken core of qtz-ser-<py>	1%			30%					.11%
											30	1/20	carb-gg									
											35°	1/20	qtz-chl-py					90%				Good
											78	1/8	qtz-carb-py-cp-mo									
											40°	3	qtz-carb-cp-<py>									
											80	1	qtz-ser-chl-py			392						
							50° 60°				10	1/20	qtz-carb-cp-<chl>?									
											40°	1/8	qtz-cp-chl-carb	3%			27%	85%				.18%
							Wk.				30°	1/8	qtz-chl-cp.									
											20	3	qtz-ser-py			398						
									400		20 x 3	1/16 x 3	qtz-pied-chl-carb x 3									
							80° Mod				30°	1 1/2	qtz-pied-chl-carb									
											30°	1/2	qtz-ser-carb-py-<cp>					85%				
							80°				65°	1/4	qtz-chl-carb-<cp>			406	37%					.08%
							Wk				30°	1/4	qtz-carb-py-<chl>									
												1 1/4	qtz-chl-sac-<py>	1%								
									410		60°	1/16	qtz-chl-py									
											25°	.18	qtz-chl-carb					90%				
							40°				30°	1/4	qtz-chl-carb									
											70	1/4	chl-qtz-carb									
							60°				15°	1/8	qtz-carb-<cp>-<py>	9%		416	40%					.05%
											70°	1/10	qtz-chl-carb-py									
							Wk +				70°	4	broken core - carb - gg									
											110°	1 1/2	qtz-chl-carb					90%				
							Mod		420		80 x 2											
											70°	8"	qtz-chl-carb-pied			422						
											60°	1/2	qtz-ser-carb-chl	2 1/2%								
							80°				55	2	qtz-carb				33%					.05%
							Mod				80°	3'	qtz-ser-chl-<py>-carb					80%				
							to Str.		430		70°	1/4	qtz-carb-pied.									
											70°	1	qtz-carb-pied.			432						
							Folded				50°	1/2	qtz-sac-pied-chl									
							&				60	1/4	qtz-carb-chl	.9%			43%	90%				.05%
											70°	6"	qtz-carb-chl									
							Chn.				50°	1/20	qtz-chl-sat-<py>									
									440		70°	1 1/2	qtz-carb-pied.									
											70°	3	qtz-ser-chl-pied-<py>			442						
											50°	1/2	qtz-chl-carb									
							80°				80°	1/8	qtz-chl-ser-<py>	1%			33%	85%				.07%
							Str				80°	1	qtz-carb-chl-pied									
											80°	1/16	qtz-chl-ser-py-<cp>									
									450		80°	1 1/2	qtz-chl-ser-carb-py									

440 - 452'S
Qtz-chl-ser-carb Zone

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-26
SHEET No. 7 of 7

ROCK TYPES & ALTERATION							L to Core Foliation	GRAPHIC LOG Foliation Alteration	Footage	Structure	Veins L to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS Sample Number	% Cu	% Mo	Estimated Grade
						452.5 - 470' Sauc Alt'n w/ narrow bands of qtz-rich, chloritic material	80° Mod		460	80° 65° 60 60° 85° 80° 85°		1/4 1/2 1/2 3/4 1/16 1/8	qtz-chl-carb qtz-chl. carb-py-cpy. gg-carb-hem. qtz-mag-carb-chl-cp-py qtz-ser-py-carb-chlz qtz-carb-chl-py qtz-chl-py	1½%		452	27%	90%				.08%
							70° 80° Wk.		470	80° 60° 20 30 60 x2		hle 1/8 1/4 1/2 1 1/20 1 33/8	chl-py qtz-chl-cp g qtz-carb-cpy qtz-chl-cp-carb qtz-chl-carb-cpy qtz-chl-carb-py qtz-chlz-carb x2	1%		462	53%	90%				.08%
						470-471' Leucocratic 471 Qtz-rich Phase, minor Sauc	80° Wk.		480	50° 85° 10° 75° 70 x2 60° 85°		1/4 1/2 1/8 8 1/10 x2 hle 1/16	qtz carb-cp. 09% qtz-ser-chl-py-cpy qtz-chl-ser-carb-py-cp. qtz-ser leucocratic zone-cpy qtz-chl x2 qtz-chl-cp qtz-chl-ser-cpy			471 476	40%	80%				.05%
						485-486' Qtz-Ser-Chl 486-505' Coarse grained, abundant chlorite alt'n	Not Defined		490	20° x2 60° 30° 30° 60° 30° 85		hle x2 1 hle 1/2 1/2 + 1/8 x2 1/8 1/8	chl-ser-py x2 qtz-sauc-chlz chl-ser-py-carb qtz-chl-ser-cpy qtz-sauc-chl qtz-chl. qtz-chl-ser-py	1%		485	33%	90% 90%				.06%
							Not Defined		500	70° 20° 70° x 4 85 70° 30° 30°		1/20 hle 1/8 + 1/16 x3 1/4 1/4 1/20 1/4	qtz-ser-py-carb. chl-ser-py qtz-sauc qtz-sauc-chl-py 2% qtz-chl-py chl-qtz-py qtz-chl-ser-py			495	60%	95%				.05%
						505-512' Qtz-rich, Chl-Sauc Alt'd	Not Defined		510	55° 80° x2 75° 80° 75° x2		6 15 1/4 + 1 1/8 1/20 1/10 x2	qtz-chl-carb broken core-carb gg 2% qtz-chl-sauc-py carb gg qtz-chl-py qtz-chl-cp-py x2			502	20%	90%				.05%
						finer grained 512-519' Sauc Alt'n 519-521 Chl-Sp Alt'n EOH @ 521'			520 521	50° 85° 120° 70° x2 120° 120°		1/4 1 1 1/2 x2 1/20 1/10	qtz-chl-ser-py qtz-ser-chl-py qtz-sauc-chl qtz-carb x2 chl-ser-py qtz-chl-ser-py	2%	M.R. Schaumberger	512 516	30%	85% 80%				.05

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-27
SHEET No. 1 of 7

LOCATION: POLLYANNA
DATE COLLARED: May 9, 1981
DATE COMPLETED: May 11, 1981
BEARING: 0°
LENGTH: 493'
DIP: -90°
LATITUDE: 49,379.25 N
DEPARTURE: 55,303.31 E
ELEVATION: 4,131.16'
CORE SIZE: N.Q.W.
SCALE OF LOG: 1" = 10'
REMARKS:
LOGGED BY: W.D.T.R.
DATE: May 12, 1981

OX. DEPTH: 100'
SUP. DEPTH:

Rock Types & Alteration: Olt.	Plag.	K-Spar.	Mafic	Texture	Hardness	Description	∠ to Core / Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Veins	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Assay Results: Sample Number	% Cu	% Mo		Estimated Grade
						Casing to 40'			40							40							
						MINE PHASE QUARTZ DIORITE (Sauc. alt. with chloritic bands) (40'-60')	40 Poor to Mod.		50		50 ? 10 x 2 30 40	1/4 5" 1/20 + hle 2" 1/4	lm - gg lm - bx - (gg) MnO2 - (lm) x 2 qtz - chl - sauc - (hem) lm - gg	<.5		44	40	85 90					0.05
							N.D.		60		30 30x2 + 50 50 + 10 + 20 60 + 40 x 2 50 40 50 x 2	hle 1/4 + hle + 1/20 1/10 + 1/8 + hle 1/10 + 1/20 x 2 1/10 1 1/2" 1/10	lm MnO2 x 3 + qtz x 1 lm x 3 - gg x 2 lm x 3 lm (qtz)-(chl) - ep lm - gg - bx x 2	<.5		52 58	27	85					0.05
						MAJOR FAULT ZONE (60'-95')	ND		70					0	Badly broken rock, some gouge frags. mixed in with very poor recovery	66	0	10					?
							ND		80		? ?	4" 4'	gg gg - bx mainly lm stain	0	76'	76 80	0	10 20					?
							ND		90		? ? ? ?	4" 3' 10" 3'	bx - (gg) gg - bx - MnO2 - lm lm - gg bx - gg - MnO2 - lm	0	Extensive MnO2 - lm staining on badly broken up rock and gouge	84 88	0	50 50 60					?

GRID _____ GIBRALTAR MINES LTD. HOLE No. 81-27 SHEET No. 2 of 7

ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation, Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	Cu %	Mo %	Estimated Grade
95	N.D.				?	18"	gg-bx - lm stain			92						
					?	12"	gg	<0.5	95'		0	55				?
MINE PHASE (SAUC. ALT.) (95 - 136)			100						97 100 Leucocratic Phase with gg-bx	96 100		65				
	N.D.		110		? ? ?	12" 12" 12" 3'	gg-bx - hem stain - carb; gg - hem stain - carb; gg - carb - (hem stain); gg-(hem stain) - black mud veinlets - carb-bx	.5%	Badly broken rock and gouge with hematite stain and carb in the fractures and on the gouge with minor py speckles	106 108	0	70 65				.05
	80 Poor		120		? 20 50 80 25 40	10" 1/10 1/4 6" 1/2 1/4	gg - carb - ((py)); qtz-chl - py; qtz-chl - py - cp; ep-qtz - (chl) - ((cp-py)); qtz-chl - (py-cp) - vug; qtz-chl - py - ((cp))	>.5%	111 116 Zone of badly broken rock and fault gouge with veins of black mud dispersed throughout and carb gouge. There are also some minor broken up py veins	115	0	75 90				.10
	85 Poor to Mod		130		20 x2 20 30 x2 70 ? 80 40 x2 85 ?	1" + 1/10 6" 1 1/2" + 3/4 1/10 6" 3/4 1/20 x2 3/4 2"	qtz-chl - (py) x2; qtz-chl - (ep) - ((py)); qtz-chl x 2 - ep x1 - ((py)) x1 - vug x1; qtz-chl - py; qtz-chl - py - (cp) zone; qtz - (chl) - ((py)); qtz-chl - py x 2; qtz-chl - ep - py - (vug); gg - bx - py - ((cp))	1.0		125	17	90				.10
136	70 Mod.				40 + 20	1/10 + 1/4	qtz-chl - py - (cp) x2	1.0	132 133 gg - bx with broken up veins of py-cp mixed in.	133	43					.15
QTZ.-SER.-CHL. ZONE (136 - 143)			140		40 x2 45 x2 60 30 x2	1/4 + 1/10 1" + 1/2 1/4 1/4 x2	qtz-chl - py - (cp) x2; qtz-chl - py - (cp) x2 + vug x1; qtz-chl - cp; qtz-chl - py - cp x2 + Mo x1		Minor blebs of py and cp mixed in throughout the zone	140		90				
143					30 x2 40	1/8 + 1/10 1/2	qtz-chl - py - cp x2; qtz-chl - py - cp									
MINE PHASE (SAUC. ALT.) (143' - 180')	70? Poor		150		30 x2 60 20 x3 + 15 x2 40 x4 + 20 + 30 x3 50 40 x2	1/8 x2 3" 1/20 x2 + 1/10 + 1/4 x2 hle x4 + 1/20 x2 + 1/4 x2 3/8 1/20 x2	qtz-chl - cp - (py); qtz - ((cp)) - (vug); qtz-chl - py - cp x.5; qtz-chl - py - cp x.8; qtz-chl - vug; qtz-chl - py - (cp) x2	1.5		146	33	90				.20
	70? Poor		160		10 x2 + 20 x2 30 x7 + 20 20 15 + 20 x2 + 30 30 20 60 30 70	1/10 x3 + 1/4 1/20 x4 + 1/10 x2 + 1/4 + 1/2 1/4 hle + 1/10 + 1/8 x2 1/8 1/20 1/20 1/8 "	qtz-chl - cp - py x 4; qtz-chl - py - cp x 8; qtz-chl - py - cp; qtz-chl - py - cp x 4; qtz-chl - cp; qtz-chl - cp - py; qtz-chl - cp - py; qtz-chl - cp - py; qtz-chl - ser.	1.5		156	33	90				.25

GRID _____ GIBRALTAR MINES LTD. HOLE No. 81-27 SHEET No. 9 of 7

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation & Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY: Sample Number	% Cu	% Mo	Estimated Grade
							85 Mod.		170		20+5+80 20+50 80 30 20+10 20+10 60×2 60 30	1/20×2+1/8 1/10+1/20 1" 1/4 1/10+1/4 1/10×2 1+1/4 3/4 1/8	qtz-chl-py-cp×2+(cp)×1 qtz-chl-py-cp ×2 gg qtz-chl-py-(cp) qtz-chl-cp ×2+vug×1 qtz-chl-cp-vug×2 qtz-chl-(cp)×2 qtz-(vug) qtz-chl-(cp)-py	1.5		166	37	90				.25
						180	75 Mod.		180		10+20×2 30 ? 30×3+20+40 40+30 ? ? 30	3/4+1/10+1/20 1/10 4" 1/2+3/4+1/4+1/20×2 1/8+1/4 3" 4" 1/20	qtz-chl-cp-(py)×3 qtz-chl-cp-py qtz-chl-cp-py zone qtz-chl-cp-py×5 qtz-chl-py-(cp)×2 gg-bx gg-bx qtz-chl-py-((cp))	2.0	Numerous small veinlets of qtz-chl-cp-py	176 180	53	90 85				.35
							MINE PHASE QUARTZ RICH CHLORITE ALT. (180-196	80 Poor to Mod.	190		? 85 40×2 30×3 60+40×2 40 30×2 ?	6" 1" 1/8+1/4 1/10+1/4×2 1/20×3 3/4 1/4×2 6"	gg-bx qtz-chl qtz-chl-py×2 qtz-chl-py-((cp))×3+vug×2 qtz-chl-cp×3 qtz-chl-cp-mag-(py) qtz-chl-((py))-vug×2 gg-bx	2.0%		190	3	85				.25
						196		ND			75 30×2+50+5 5+40 50	3" 1/4×3+1/10 1/20×2 1/10	qtz qtz-chl-cp-(py)-(hem)×4 qtz-chl-cp-cp-(py)×2 qtz-chl-py-(cp)	1.0			20	90				.45
							MAJOR FAULT ZONE		200							196		75				
							(HEM. STAINED) (196-214)	ND	210					?	Badly broken rock and carb. gouge with a few small solid pieces of core and hematite stain throughout. Fragments of py mixed in with the gouge.	~~200.5~~ 206	0	60 80				?
						214										212						
							MINE PHASE SAUC. ALT. (214-	70-85 Poor to Mod	220		40+50 40+50 ? 50 40	1/10 3/4+1/4 1" 3" hle 1/20	qtz-chl-cp-py×2 qtz-chl-py-cp×2 gg gg-bx qtz-chl-(cp)-py qtz-chl-cp-py	1.0	Some hem stain on the rock at 218'	218	7	80				.20
								N.D	230		50 ? 50 20 ? ? ? 50	hle 6" 2" 2" 3" 6" 1" 1/20 2'	qtz-chl-py-(cp)-hem gg-bx qtz-chl-(cp)-(vug) qtz-chl-(vug) gg-cp mixed in gg gg-bx qtz-chl-cp gg-bx-some hem stain	1.0	Some hem stain at 220' to 221'	225 228	27	80 75 80				.25

GRID _____ GIBRALTAR MINES LTD. HOLE No. 81-27 SHEET No. 4 of 7

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation, Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						235					60 30 ? 50+60	1/8 1/4 6" 1/20 x 2	qtz-chl-hem-py qtz-chl-py-cp gg qtz-chl-cp-py x 2			231 235	7	50					
							ND		240									45					
						MAJOR FAULT ZONE (235-266) (hem. stained 257-266)	ND		250		30 40+30 50	hle hle + 1/4 3/4	qtz-chl-hem-py qtz-chl-py x 2 + vug x 1 qtz-chl-((py))	?	Badly broken rock and carb fault gouge with some solid rock sections mixed in with the fault.	243 249	0	50					?
							N.D.		260					?	A few broken up veins of py + cp mixed in with the fault gouge	251 256	0	80 50 65					?
						266	N.D.							?		261 266	0	35					?
									270		?	12"	gg-hem stain-carb			266 270		50					
						MINE PHASE SAUC. ALT. (266-405.5) (hem. stained 266-275)	70 Mod		280		30 30 x 2 15+20+40+50	12" 3' 1/8 1/20 x 2 1/4 + 1 1/2 + 3/4 x 2	gg-hem stain-carb gg-bx-carb qtz-chl-py-(cp) qtz-chl-py x 2 qtz-chl-py-cp-vug x 4	1.5		276	23	60					.25
							60 Poor		290		10 30x2 25x2 30x2 + 70 ? 20 10 80 40	1/4 1/10 x 2 1/8 + 1/4 1" x 2 + 4" 2" 1/10 1/20 2" 6"	qtz-py qtz-chl-py x 2 + vug x 1 qtz-chl-py qtz x 3 + chl x 1 gg qtz-chl-py qtz-chl-py-cp qtz-(vug) qtz-chl-(cp)-vug	1.0		285 289	67	90 90					.20
							45 Poor to Mod		300		20 x 2 + 30 30 ? 30 1.5 25 + 30 20 15	1/4 + 3/4 + 1" 1/4 4" 1/4 1/20 1/20 x 2 1/2 1/8	qtz x 3 + (py) x 1 qtz-chl-(vug) gg qtz-carb-chl-vug qtz-chl-py qtz-chl-py x 2 qtz-chl-vug qtz-chl-py-vug	1.0	Hematite stain along the fractures from 297'-300'	292	50	90 80					.08

GRID _____ GIBRALTAR MINES LTD. HOLE No. 81-27 SHEET No. 5 of 7

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							60 Poor to Mod.		310		30 ? 30 20×2 20×2 20+25×2 30	1¼ 6" 2' 1" 1/20 + 1/2 1/10 + 1/8 1/4 + 1/10 + 1/8 12"	gtz-chl-(py)-((cp)) gg-bx gtz-ser-py-carb -gouge zone gtz-chl-ep-py gtz-chl-py-ep×2 gtz-chl-py-cp-vug×2 gtz-chl-py-cp×3 gg-bx gtz-chl-py-((cp))	5%		302 306	20	80 80				.10	
							N.D.		320		12" 10 50 40 10 10 10 80 85 40	12" 1/8 1/4 1/20 hle 1/8 1/10 3/4 2" 1/2	gg-bx gtz-chl-py gtz-chl gtz-chl-py gtz-chl-py gtz-chl-py-(gg) gtz-chl-py-(cp) gtz-chl-(py) gtz-(chl)-(ep) gtz-((py))	1.5%		311	20	90				.10	
							N.D.		330		40+20 30 30 50+60×2 50 40 30 20	1/20×2 1/4 1/8 3/4 + 1" + 3/8 1/4 3" 1" 1/8	gtz-chl-py-((cp))×2 gtz-chl-((py)) gtz-chl-py-((cp)) gtz-vug×3 + chl×1 gtz-chl-gg gtz-chl-ep-py zone gtz-chl-vug gtz-chl-py-((cp))	1.0		321 330	47	85				.10	
							N.D.		340		20 20 40×3+20×2 50×2+40×2 25 5 25 5 20	1½ 1" 1/20×3 + 1/8×2 1/20 + 1/8×2 + 1/4 1/4 1" 1/8 1" 1/8	gtz-chl-mag-(py)-(cp) gtz-chl-((py)) gtz-chl-(py) x5 + vug x1 gtz-chl x 3 + gtz x 1 gtz-chl-py gtz-chl-(py)-(cp)-(vug) gtz-chl-ep-py-((cp)) gtz-chl-ep-((cp))-(vug) gtz-chl-py-(cp)	1.0		339	37	90				.10	
							80 Poor		350		15 60 5×3 60 20×4 10 25 50+15 30+40	1/8 3/4 1/2×2 + 1/10 1/2 1/8×2 + 1/4×2 4" 1/4 1½ + 1/10 1/2 + 1/4	gtz-(chl)-(vug) gtz-chl-vug gtz-chl-((py))×3 gtz-chl-vug gtz-chl-(py)×2 + gtz×2 gg gtz-chl-py-cp gtz-chl×1 + gtz-chl-py×1 gtz-chl-((py))×2 + vug×1	1.0		346	53	90				.10	
							80 Poor		360		5×2 30 20 20×3 30+20 30×2 30 30 40	1/10 1/2 1/2 1" + 1/8 + 1/20 1/20 + 1/10 1/10 × 2 1/4 1/10 3/4	gtz-chl-py gtz-chl-py-cp-(vug) gtz-chl-((py))-vug gtz-chl-vug×1 + py-cp×2 gtz-chl-py-(cp)×2 gtz-chl-py-(cp)×2 gtz-chl gtz-chl-py gtz-chl-(carb)-py-(cp)	1.5		356	50	90				.15	
							N.D.		370		30+50+40 30 30+20×2 70 15×2+20 25 20×2 70 20+25+40	1/4×2 + 1/8 1/10 1/4×2 + 1/8 1/4 1/8×2 + 1/10 1/4 1/4×2 1/2 1/10 × 2 + 1/8	gtz-chl-ep-py-(cp)×3 gtz-chl-ep-cp gtz-chl-py-(cp)×3 gtz-chl-ep gtz-chl-(py)-((cp))8 gtz-chl-py gtz-chl-(py)×2 gtz-chl gtz-chl-(py	1.5		366	67	90				.20	

GRID _____

GIBRALTAR MINES LTD.

HOLE No. GI-27
SHEET No. 6 of 7

Qtz	Plag	K-Spar	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo	Extraction Grade
							N.D.		380		50 20 30 20 30+20 50+25 ? 30 10 80	1/2 4" 1/4 1/8 1" + 3/4 1 1/2" + 1/4 3" 1/4 1/20 1 1/2	qtz-chl-(py)-vug gg qtz-chl-cp-py qtz-chl-py ep-chl x1 + qtz-chl-py-((cp)) x1 qtz-chl x1 + qtz-chl-py x1 gg qtz-chl-py-vug qtz-chl-ser-carb-((gg)) qtz-chl	1.5		376	70	90				.20
							N.D.		390		20 x 2 10 20 20 x 3 5 ? 20 30 20 85 x 2 30+70 x 2	1/4 x 2 4" 1/10 1/8 x 3 1/2 6" 3/8 1/4 1/8 3/8 ← 1" 1/8 x 2 + 1/10	qtz-chl-py-(cp) x2 gg qtz-chl-py-(cp) qtz-chl-py x3 qtz-chl- gg-bx qtz-chl-py-cp qtz-chl-py-(cp)-vug qtz-chl- qtz-chl x2 gg qtz-chl-py-((cp)) x3	1.5		386	27	90 90				.30
							80 Poor		400		10 70 75 ? 30+50 x 2 30 40 x 2 40 x 4 5+30 x 2 10 50	3/8 1" 1/10 12" 1/20 x 2 + 1/8 4" 1/20 x 2 1" + hle x 3 hle + 1/20 x 2 1/8 1/8	qtz-chl-py-(cp) gg qtz-chl-py gg-bx - carb-py frags. qtz-chl-py x 2 + cp x 1 qtz-chl-((py-cp)) qtz-chl-py-(cp) qtz-chl x1 + py x3 qtz-chl-py x1 + cp x2 qtz-chl-py-cp	1.5		392 396	17	90				.25
						405.5	N.D.				60+25 50+30 x 2 25 30 20 x 2	1/8 + 1/20 hle x 3 1/10 1/8 1/10 + 1/2	qtz-chl-py x 2 qtz-chl-py-cp x 3 qtz-chl-(cp)-py qtz-chl-cp-py qtz-chl-cp-py-(cp) x2	.5%			60	90				.10
						MINE PHASE QUARTZ RICH SAUC ALT. (405.6 - 410)			410		20	1/20	qtz-chl-py-(cp)			406						
						MINE PHASE SAUC. ALT. (410 - 493)	N.D.		420		40 40 30 x 3 ? 10 40 x 3	1/8 6" 1/8 + 1/10 + hle 6" 1/8 1/8 + 1/20 x 2 } 2'	qtz-chl-(py-cp) gg-bx - hem stain qtz-chl-py-ep x 2 + (cp) x1 gg-bx qtz-ser-carb-(gg) qtz-chl-py-cp x 3 minor broken up veins of py and one broken chl vein	7.5		416 420	37	90 85				.10
							N.D.		430		? 30 20 ? ? 20 x 2 80 20 30 x 2	3" 1/8 5" 3" 1/20 + 1/4 4" 8" 1/4 + 1/10	gg-bx qtz-chl-py-((cp)) gg-bx-carb gg-bx-carb gg-bx-carb qtz-chl-py x 2 qtz-chl-ep qtz-chl-((py))-Mo qtz-chl-(py-ep) x 2	7.5		425	17	80 90				.08
							80 Poor		440		? 30 40 x 4 + 60 x 4 50 x 4 20+40 40+50	5" 1 1/2 1/10 x 4 + 1/20 x 4 1/8 + 1/20 x 3 hle + 1/8 hle x 2 } 6"	bx-(gg) qtz qtz-chl-py x 8 qtz-chl-py x 4 qtz-chl x 2 qtz-chl-py stockwork of veins of qtz-chl-ep	1.5		431	37	90				.08

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-27
SHEET No. 7 of 7

ROCK TYPES & ALTERATION: Qtz	Plag	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo	Estimated Grade
							N.D.		450		80×2 70×2 ? 50+80 20×3 50 40 35 60	2" + 1/2 1/4 × 2 5" 1/4 × 2 1/8 + 1/20 × 3 3/4 1/2 1/10 3/8	qtz-chl ×2 + ep×1 + vug×1 qtz-chl-ep ×2 gg-bx qtz-chl-ep ×1 + qtz ×1 qtz-chl-py ×2 + cp×2 qtz-chl-ep-py qtz-chl-ep-vug qtz-chl-py qtz-chl-ep	1.0		441	60	90				.08
							70-80 Poor		460		40 40 × 4 ? 50 × 2 80 30 × 4 40+70+30 50 5	3/8 + 1/10 + 1/20 + hle ×2 6" 1/8 + 1/4 1" 1/20 × 3 + 1/10 1/8 × 3 1" 12"	qtz-chl-ep-py qtz-chl-py × 4 gg-bx qtz-chl-py ×2 gg qtz-chl-py ×4 qtz-chl-py-cp ×3 qtz-chl carb-gg along fracture	1.0	Broken veins of py in gouge	451 460	13	90				.10
							N.D.		470		85 + 5 × 2 50 75 50 × 2 5 466 50 × 3 467 5 40	1/20 + 1/10 × 2 1/20 4" 1/20 × 2 1/10" 1/8 × 2 + 1/4 1/20 1/4 6"	qtz-chl-ep-py-((cp)) ×3 qtz-chl-py qtz-chl-ep-((py)) qtz-chl-py-ep qtz-chl-cp-(py) ep-qtz ×3 qtz-chl-(py) qtz-chl-ep-(py) Leucocratic phase	1.0	Leucocratic Phase (466-467)	469	50	90				.08
							N.D.		480		30 30 × 2 25 × 2 30 × 3 ? 30 × 2 50 15 × 3	1/4 1/20 × 2 1/10 + 1/4 1/10 + 1/8 × 2 3" 1/10 + 1/4 1" 1/20 × 2 + 3/4	qtz-chl-ep-((py))-vug qtz-chl-py ×2 qtz-chl-py-((cp))-vug ×2 qtz-chl-py-cp-ep ×3 gg-bx qtz-chl-py ×2 + carb-vug ×1 qtz-ep qtz-chl-py-cp ×3 + carb ×1	1.5		477	50	90				.15
							N.D.		490		20 × 2 10 × 3 25 × 2 30 + 5 20 × 2 75 30	1/10 × 2 hle × 2 + 1/8 1/4 × 2 1/20 + 1/8 1/20 × 2 3/4 1/10	qtz-chl-py ×2 qtz-chl-py ×3 qtz-chl-carb ×2 qtz-chl-carb-py ×2 qtz-chl-(py) qtz-ep qtz-chl-py-(cp)	>.5		487	37	90 80				.08
							E.O.H. 81-27 493				75 50 ? 30	1/10 1/8" 6" 1/20	qtz-chl-ep-py ep gg-bx - broken up py qtz-chl-py			493						

Gary O. Bysouth

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-28
SHEET No. 1 of 8

LOCATION: POLLYANNA
DATE COLLARED: May 11, 1981
DATE COMPLETED: May 13, 1981
BEARING: 0°
LENGTH: 501'
DIP: -90°
LATITUDE: 49,822.77 N
DEPARTURE: 55,110.61 E
ELEVATION: 4,247.02'
CORE SIZE: N.Q.W.
SCALE OF LOG: 1" = 10'
REMARKS:
LOGGED BY: M.R.S.
DATE: May 15th 1981

OX. DEPTH: 96'
SUP. DEPTH:

ROCK TYPES & ALTERATION							GRAPHIC LOG																ASSAY RESULTS				
Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins	∠ to Core Axis	Width of Veins	Mineralization	Pyrite Zone	REMARKS	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo		Estimated Grade
						CASING TO 27'			0.0		O.B.													
						27			27								27							
						29-30 Leucocratic	N.D.		30		60x2		12" / 1/8 + 1/2	Broken core - hem along fract. gtz - epidote - hem x2	0%	fract. 0% mod. to 96'	30		85%					.02%
						Mine Phase Quartz Diorite 27 - 29 30 - 96 Sauc. Alt'd	Not Defined		40		55 x2 / 30x2 / 30° / 50° / 30° / 40° / 50°		hle x2 / 1/10 x2 / 1 / hle / 1/8 / 1/10 / 1/20	hem x2 / gtz - chl - hem / hem - MnO2 / gtz - chl - hem / gtz - ep + anvil 1/2 rock of gtz - chl - hem rock / hem - gg	0%		36	57%	90% / 95%				.03%
						Dk. chloritic patches - hem staining	Not Defined		50		15° x 3 / 10° / 10° / 15° / 30x2		hle / 1/20 / hle / hle	hem / hem gg / hem - hem / Broken core - hem / MnO2	0%		43 / 46	0%	90% / 80%					.03%
							Not Defined		60		70° / 30° / 30° / 20° x 2		3/4 / 3/8 / hle / hle x 2	Broken core - hem - MnO2 / gtz - hem / gtz - ep - (hem) / gtz - ep / hem - MnO2 x2	0%	Some drilling brass? on core	54	33%	90%					.03%
							Not Defined		70		15° / 60° / 20° x 3 / 65° / 30°		1/16 / hle / hle x 3 / 1/10 / 1/4	hem gg / MnO2 - hem / chl - hem - hem x3 / gtz - wisp / gtz - ep - hem - chl hem - wisp	0%		64	30%	95%					.03%

GRID _____ GIBRALTAR MINES LTD. HOLE No. 81-28 SHEET No. 2 of 8

Qtz	Plag	K-Spar	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core	Foliation	Foliation Alteration	Footage	Structure	Veins	∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	R.Q.D.	Recovery	Sample Number	% Cu	% Mo	Estimated Grade
							45 60 Mod			80		30° 55 60 5° 20°		hle 1/20 6 hle hle	hem qtz-sauc qtz-chl-hem-vugs hem-hem-gg hem	0%		74 80	30%	90%				.03%
							50 60° Mod + wk			90		25 x 3 60° x 2 60° 30° 10° x		1/4 + hle x2 1/16 x 2 1/16 1/16 hle x2	hem gg qtz-sauc-chl qtz-vugs-hem qtz-chl hem-gg x2	0%		87	30%	85%				.03%
						96-102 qtz-ser-carb zone/ Qtz-rich darker	70° wk			100		30° 30 x 2 70° 70°		1/8 hle x2 6 15" 1/20	hem gg hem x2 Broken core-gg-hem qtz-ser-carb-chl-gg carb gg-hem	0%		95 99	20%	90% 90%				.03%
						Alt^n all carb. rich 102-110.5' Sauc Altd	50° Str			110		30° 80° 55° 70° 30°		2 1 1/4 1 2 3/4	carb hem gg-broken core qtz-chl-hem-carb qtz-chl-hem-carb gg qtz-chl-gg<carb> carb hem gg-broken core qtz-ep	0%		106	53%	90% 95%				.03%
						110.5-120 chl-Ep Alt^n <Sauc Alt^n>	Not Defined			120		60° 80° 30° 30° 30 x 3		1/8 1 1/2 2 1/10 x 3	qtz-chl qtz-chl-hem qtz-ser-chl-hem qtz-ep-chl-carb-hem qtz-ep	0%		113	10%	85%				.03%
						120-141 Sauc Alt^n/ <Qtz-rich chloritic bands>	60° Mod			130		70° 60° 10 x 2 30 30° x 80		8" 1/2 1/20 x 2 1/20 1/16 x 2	Broken rock-hem-hem-carb gg-abund. hem stain qtz-chl-ep carb-hem x2 qtz-chl-ep carb-hem x2 qtz-ep-chl	6%		122 128	47%	95%				.03%
							45-60 Mod			140		30° 80 50 70° 70		1/16 1/8 hle 8 1/4 1/2	carb-hem-chl qtz-ep carb-hem Broken core-carb-hem-hem qtz-chl-carb-hem-hem qtz-chl-ox	6%	Some finer gr. sauc rock	136	43%	85%				.03%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 81-28
SHEET No. 3 of 8

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	GRAPHIC LOG: Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyritic Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY R: Sample Number	% Cu	% Mo	Estimated Grade
						141-212 Dark Alt'n Qtz rich / Same Alt'd	50° Mod to N.D.		150	80°	1/20	qtz-ep-hem + same-free envelope				146	60%	90%				.03%
										80 x 2	1/20 x 2	qtz-chl-carb-py x 2										
										50°	1"	qtz-ep-chl	8%									
										80°	3/8	qtz-chl										
										30°	1/16	qtz-chl-py-carb										
										60	9"	qtz-chl-carb-hem-py 2" + carb-hem gg + broken core						90%				
										70 x 2	1 1/2	qtz-ep-gg-chl x 2										
						Bands	N.D.		160	25°	1	qtz-ep-chl-<py>				155	30%					.03%
										60 x 4	hle x 4	hem x 4										
										45 x 3	hle x 3	qtz-chl-py x 3	8%									
										30°	hle	carb										
										70 x 4	3/4 x 4	qtz-chl x 4										
										80°	hle	qtz-chl-py										
										15°	1	chl-qtz-carb						95%				
							65° wk to Mod		170	30°	1 1/2	qtz-ep-chl-<py>				165	63%					.06%
										20 x 2	hle x 2	carb x 2										
										45 x 4	1/16 x 4	qtz-ep-hem	1%									
										20 x 2	Nex 2	carb-hem x 2										
										25°	1/16	ser-carb										
										25°	8	chl qtz-ep-<py>										
										60°	1/4	qtz-ser-carb-chl-py-<cpy>						95%				
							N.D		180	30	1	carb gg-hem				175	37%					.06%
										50° + 20	hle x 2	carb x 2	1%									
										30	3/8	qtz-ep										
										30	hle	hem										
										25	1/8	qtz-ser-chl-py-<carb>						90%				
										70°	1/2	qtz-chl-ep-py										
							60° wk to N.D.		190	45°	1	Broken core-carb gg				183	33%					.05%
										45°	1/2	qtz-carb-chl	8%					90%				
										60	1/16	qtz-carb-chl-py										
											3"	Broken core-carb-gg										
										45°	1/2	qtz-carb				189						
										60°	1/16	qtz-chl-py										
							70-80° wk		200	10 x 6	hle x 6	carb-hem x 6				195	30%	90%				.08%
										65°	1 1/2	qtz-chl-ep-ser	1.5%									
										60°	1/2	qtz-chl-carb-<cpy>										
										150	1/10	qtz-chl-ser-carb-<cpy>										
										50° x 2	hle x 2	qtz-chl-py x 2						98%				
										80°	1/2	qtz-chl-ser-carb-py				200						
							70-80° wk		210	80°	1/4	qtz-chl-py				204	40%	85%				.68%
										80°	1/8	qtz-carb-ser-py-chl										
										50°	hle	carb-hem	2%									
										80°	1/16	qtz-chl-py										
										80 x 3	1/16 x 3	qtz-chl-py						90%				
										75 x 2	1/2	[illegible]										

GRID _____ GIBRALTAR MINES LTD. HOLE No. 81-28 SHEET No. 4 of 8

ROCK TYPES & ALTERATION							GRAPHIC LOG																							
Qtz	Plag	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone		Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Sample Number	% Cu	% Mo		Estimated Grade
						212-216 Leucocratic Phase	70° 80°				75° x2	1+1/10	qtz-ser-py x2				213							
											25 x2	1/20 x2	qtz-ser-py x2											
											70°	1/2	qtz-<ser>-<carb>											
											30°	1/4	qtz-chl-ser-py-carb											
											10x3	hlex3	qtz-ser-chl-py	1.5%				40%	98%					.08%
						216-244 Same Alt'n	WK				70°	1/4	qtz-carb-py											
											90°	2	Broken core-carb gg											
									220		45°	1/2	qtz-ser-chl-py				220							
											20 x2	1/10 x2	qtz-ser-chl-py x2											
											80°	1/16	qtz-ser-cp						95%					
						(Qtz-ser-py zones)	60° 80°				70°	1 3/4	qtz-ep-chl											.09%
											70°	1/4	qtz-chl-py	2%			226	60%						
											80°	1 1/4	qtz-chl-<carb>											
						(Qtz rich phase ep-chl Alt'n)	WK		230		60 x2	2 1/2 + 1/2	qtz-ser-py x2						95%					
											45°	2 1/2	qtz-ser-py											
							45°				40°	1/2	qtz-ser-py-<cp>-<mo>				233							
							str				30° x2	1/20+hle	qtz-ser-py-<cp> x2					27%						.61%
							to				30°	1/2	qtz-py-mo	3%										
											45°	2	qtz-ser-py						90%					
							NP		240		120°	1/2	qtz-ser-cp											
											45°	15	qtz-ser-chl-py-<cp> Zone											
											45°	1/20	qtz-ser-chl-py 3%				241							
											80	1/2	qtz-<ser>-<chl>-py											
							80°				60° x2	1/20 x2	qtz-ser-chl-<py>-<cp>		x2			30%	85%					.12%
						244-256 Qtz-Ep-chl Alt'n	WK				80	1/2	qtz-ser-chl-py				246							
											70°	3	qtz-ser-chl-py-cp											
									250		30°	1/20	qtz-chl-ser-py-cp						85%					
												8	Broken core-carb gg-hem											
											70°	1	qtz-ser-cp-<chl>											
							45°				60° x2	1/2 x2	qtz-ser-py x2											
											30°	1/2	qtz-ser-py-<cp>	3%			254	30%						.15%
							80°					24"	Broken core-carb gg-hem											
						256-291					80°	1	Leucocratic Phase						95%					
						Same Alt'n	WK		260		25°	1/2	qtz-ser-chl-py											
											60° x2	1/2 + 1/4	qtz-chl-ser-cp-py x2	2%										
											60°	3/4	qtz-ser-chl						98%					
							80°				55°	1/8	qtz-pod-<chl>-<py>-<carb>				261	57%						.09%
											70°	1	qtz-py-ser-chl-cp											
							WK				60°	1/2	qtz-chl-carb-py-<mo>-<cp>											
									270		35°	1/20	qtz-ser-py											
											55°	1/4	Sch-qtz-ser-<cp>						97%					
							D°				55 x3	2 + 1/4 x2	qtz-chl-ser-carb-cp x3											
													qtz-ser-carb-cp-mo											
											65°	1/4		1%			276	50%						.15%
							Mg WK				50°	1/4	qtz-ser-<cp>											
											120 x2	1 + 1/8	qtz-chl-ser-<carb>-cp x2											
									280		65°	1/10	qtz-chl-ser-cp-(mo)						98%					

GRID _____ GIBRALTAR MINES LTD. HOLE No. 81-28 SHEET No. 5 of 8

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar	Mafic	Texture	Hardness		∠ to Core	Foliation	Foliation Alteration	GRAPHIC LOG: Footage	Structure	Veins	∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo	Estimated Grade
													60°	1/16	qtz-chl-py									
													70 x2	1/16 x2	qtz-chl-cp x2									
							70°						60°	1/4	qtz-ser-chl-cp	2%		285	27%					.20%
							v						60°	1/16	qtz-chl-cp									
							wk						55°	2	qtz-ser-py zone					80%				
													70°	1	qtz-ser-py zone									
										290			45°	1/2	qtz-chl									
													70 x3	hle x3	qtz-chl py x3									
													65°	1	qtz-chl-carb	2%	poss. ∠ sphy d. ssca in core	293	17%					.23%
							70°						70°	2	qtz-chl-carb-cp									
							80°						55°	1	qtz-chl-ser-carb	py-cp-(barite)				95%				
													20°	hle	carb-ser-cp-chl									
							Mod.						30°	1/4	qtz-chl py-cp									
										300			30°	1/16	qtz-carb-cp									
													70 x2	1/20 x2	qtz-carb-chl-hem x2			303						
							60°						15°	hle	qtz-chl-py									
							70°						80°	hle	qtz-chl-py				160%					.18%
													60°	1/16	qtz-chl-py	2%								
													70 x2	1/20 x2	ser-carb-hem									
													10° x4	hle x4	carb-hem x4					95%				
							Mod.			310			40 x3	1/16 x3	qtz-chl-cp-py x3									
														6"	Broken core - carb 99 - hem - (hem)									
							70°						55° x2	hle x2	qtz-py x2	1%		313						
													5°	hle	qtz-carb - (hem)									.05%
													30°	1	qtz-chl-carb-cp (cp)		hem		23%	99%				
							wk						50 x3	hle x3	carb-hem x3									
										320			70°	1/2	qtz-chl-ser-py zone carb			319						
													30	1/8	qtz-ser-chl-cp-py									
													70 x2	hle x2	qtz-cp x2					95%				
							70°						66°	1/2	qtz-chl-cp-py-cp	1%			40%					.12%
													50 x3	hle x3	carb-hem x3			326						
							wk						70°	1/8	qtz-chl-cp					90%				
										330			50	10	qtz-chl-ser-(carb) - (py) zone			330						
													10°	1/20	qtz-chl-py-(cp)					90%				
							80°						80°	1/4	qtz-chl-py-cp	1%								
							v						50 x2	hle x2	carb-hem x2									.16%
							wk						80	1/2	qtz-chl-py-cp			336	10%					
							70							1" x2	broken core - carb 99 + (hem)									
							N.D.						80°	1/4	chl-cp carb alt									
										340			50 x3	hle x3	chl-lim									
													50°	hle	carb-lim					85%				
							80°						60°	1/8	qtz-chl-carb	0%								
							v.wk						45	hle	chl-py-(chl)				37%					.08%
							70						55°	1	qtz-(cp) chl-(carb) - (py) - (cp)			346						
													70°	13"	qtz-cp-chl-(carb)									
							N.D.						25°	1/8	qtz-ser-py-chl-hem									
										350			50° x3	hle x3	qtz-carb-(hem) x3									

291 - 318
DK Alt ~ / Some Alt ~ (pinkish tinge due to hematite)

318 - 332
Some Alt ~ / DK Alt ~

332 - 380
DK Alt ~ / Qtz - cp

Alt ~

GRID _____ GIBRALTAR MINES LTD. HOLE No. 81-28 SHEET No. 6 of 8

ROCK TYPES & ALTERATION: Cit.	Plag	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	Foliation, Alteration & Footage	GRAPHIC LOG: Structure	∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULTS: Sample Number	% Cu	% Mo	Estimated Grade
							N.D		15°		1	qtz-ser-py					90%				
									60°			qtz-chl-ser-cp	4%	Broken							
									60°		1/2'	qtz-chl-ser-cp		Core							.15%
												Broken core carb-gg-lim			355	7%					
											1/16	qtz-carb-lim					95%				
								360	5°		4"	broken core-carb-gg-lim									
									10°		1	qtz-ser-carb-py-chl?			361						
							80°				2"	Broken core-carb-gg-lim-py									
							85°														
							v.		10°		hle	carb-lim				17%	98%				.15%
							w.k		60 x2		1/20	qtz-py-cp-chl	10%								
							40°														
							N.D.		70°		1/20	qtz-ser-chl-cp			368						
								370	15°		18	qtz-ser-chl-py									
									80°		10"	qtz-ser-chl-py-<<cp>>									
							50°		80		1/4	carb-gg					80%				
							Str		70		5	qtz-ep-chl? - <<py>> - <<cp>>									
							80				1/16	carb-gg-lim	1%		376	20					.10%
									15												
							N.D.		60		hle	qtz-chl-py					90%				
								380	70°		1/2	qtz-ser-chl-carb-cp-py									
											12"	Broken core carb-gg			381						
			380-412						15° x2		hle x2	carb-lim x2									
							~5°		30°		1/2	qtz-chl-ser-<<cp>> <<py>> - <<mo>>				20	95%				.17%
			OK Alt. ~ / Same Alt								12"	qtz-chl-ser-py - <<cp>>		Zone							
							Mod		10°												
									15° b/lied		24	chl-qtz-ser-py-cp	1.5%								
								390	30		2	qtz-ser-carb			389						
									20°		3	Broken core chl-carb-gg									
							80°		60°		3/4	ae <<qtz>>				30	95%				
							v.wk		55°		1/8	qtz-chl-py									.20%
									80°		1/16	qtz-chl-cp	1%								
									15°		1/20	qtz-chl-py									
									20		hle	qtz-chl-cp			399						
								400	45		1/4	qtz-chl-cp-py									
									80°		1/16	qtz-chl-py									
							70°		70°		10"	qtz-ser-chl-py Zone		Some chrysocolla			85%				
							Str		50° x2		1/16 x2	qtz-chl-carb-cp-py x2		py							.20%
							40		15°		1/4	qtz-chl-carb-<<cp>>	4%		406	30					
									20°		1/4	qtz-chl-py-cp									
							N.D.	410	45		8	qtz-carb-chl-ser-py-cp					85%				
									30°		1/16	qtz-chl-py									
			412-415.5:						30		1/4	qtz-carb-chl	1%								
			qtz, Ser-Py Zone				70°		20		1/4	qtz-chl-carb-cp			415	27					.30%
							80														
			415.5 - 440.5				v.wk		60		1/4	qtz-chl-carb-cp									
			Same Alt ~ / OK Alt ~						30°		1/4	qtz-chl-carb-ser-cp									
								420	70°		1/16	qtz-cp					95%				

GRID _____ GIBRALTAR MINES LTD. HOLE No. 81-28 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	Pyritic Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	Assay: Sample Number	% Cu	% Mo	Estimated Grade
	N.D.	420	80° 20° 30° x 2 50° 20° + 45° 10°	1/8 1/10 1/8 x 2 5 1/8 x 2 1/2	chl, qtz-carb ((py)) qtz-chl qtz-chl-py x 2 qtz-ser-py-carb gg qtz-chl-carb ((py)) x 2 qtz-chl-carb-py	3% Zone		425 429	7%	80%				.08%
	N.D.	440	50° 35° 80° x 3 45° 80°	1/2 1/16 1/4 (x 3) 1/4 1/2 1/5	qtz-chl-carb-cp carb-qtz ((cp)) qtz vein ((cp)) - ((mo)) x 3 qtz-chl-carb ((cp)) ((mo)) qtz-carb-chl-cp Broken core carb gg ((py))	2% Broken core		435	3	80% 75%				.16%
	N.D.	450		5'	Broken core carbonaceous rubbly gg	1%		441 445	7	75% 90%				.08%
	N.D.	460	70° 30° 30°	2 1/16 5	chl-cp-py ((cp)) qtz-carb-hem qtz-chl-carb									
	N.D.	470	80 10° 80 80 80° 70°	1/20 Lie 3" 7" 1' 8	chl-qtz-py-cp + 1% carb-hem qtz-chl-carb-py Zone B-rock core-chl-gg-((py))-hem qtz-chl-carb qtz-chl-carb ((py)) ((cp))	Broken core		455	3	97%				.08%
	N.D.	480	70° 30° 80° 80 75° 75°	12 1/16 1/2 5 1/4 5	qtz-carb-chl-ser ((py)) - ((cp)) Zone qtz-chl-py 3% qtz-carb-py qtz-chl-carb ((cp)) Zone qtz-chl-py-cp qtz-chl-carb-cp ((cp))			465	20	90%				.19%
	N.D.	490	70° 30	1 1/2 2' 1/2 3' 5	qtz-chl-carb-py ((cp)) Zone Broken core-carb partings ((py)) ((cp)) qtz-carb 1% Rubbly core-carb gg ((py)) qtz-carb broken core ((gg))			472	7	95%				.09%
	80° wk		10° 25° 15° 60° 70°	1/16 1/16 1/16 1/16 Lie 1/16	qtz-cp-chl-cp qtz-chl-cp qtz-chl-py ((cp)) qtz-cp .5% qtz-ser-py qtz-cp			482	27	97%				

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ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar	Mafic	Textures	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation, Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Pyrite Zone	Remarks	Footage Blocks	RQD	Estimated Core Recovery %	ASSAY RESULT: Sample Number	% Cu	% Mo	Estimated Grade
											25	1/8	qtz-cp			191						
							60°				60	1/4	qtz-cp	6%			60					.10%
											5°	1/4	qtz-cp-py-chl									
							WK				85°	1/4	qtz-chl-cp-py					95%				
											85	1/2	qtz-chl-cp-py									
											500	1/4	qtz-chl-cp-py									
											501	1/2	qtz-chl-cp-py			501						
						E.O.H. @ 501									M.R. Schumacher							