

83-#306-#11577

DIAMOND DRILL REPORT
ON THE
PINK GROUP

Cariboo Mining Division
93 B/8

(Latitude 52 30', Longitude 122 19')

OWNER AND OPERATOR
GIBRALTAR MINES LIMITED
MCLEESE LAKE, B.C.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,577

AUTHOR: M. R. Schaumberger

Submitted: May 16, 1983

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1.0 INTRODUCTION

"The Pink Group lies approximately 1.5 miles (2.42 km.) southwest of the Gibraltar Mines concentrator. It covers much of Cuisson Lake and extends north about 2 miles (3.33 km.) from the northern tip of the lake. Elevations within the group range from about 2900 feet to 3500 feet. Access is via a two-wheel drive road which links the claims to the Gibraltar Mines road at a point about 3 miles (4.8 km.) from the plant site. The general location of the group is shown in Figure 1.

The property was first staked in 1928 by the Hill brothers. Mineralization found in a shear zone was tested with a trench and open-cut 75 feet in length. A chip sample across the heaviest mineralization gave 25 feet of 2.0% copper, but no gold or silver.

From 1954 to 1956, Sunset (Kimacllo Mines Limited) staked 100 claims in this area and in the Pollyanna area on Granite Mountain. They drove the "Sunset Adit" into the shear zone along Granite Creek at a point about one mile (1.6 km.) east of the north end of Cuisson Lake. The adit ran for a distance of 110 feet at S35 E. They tested the area around the adit with a pack sack diamond drill. Chip sampling of open cuts west and east of the portal yielded 23 feet of .87% copper and 23 feet of .20% copper respectively. A sample taken of the hanging wall above the shear assayed 12.5 feet of 1.43% copper, and one across the shear yielded 2 1/3 feet of 1.95% copper.

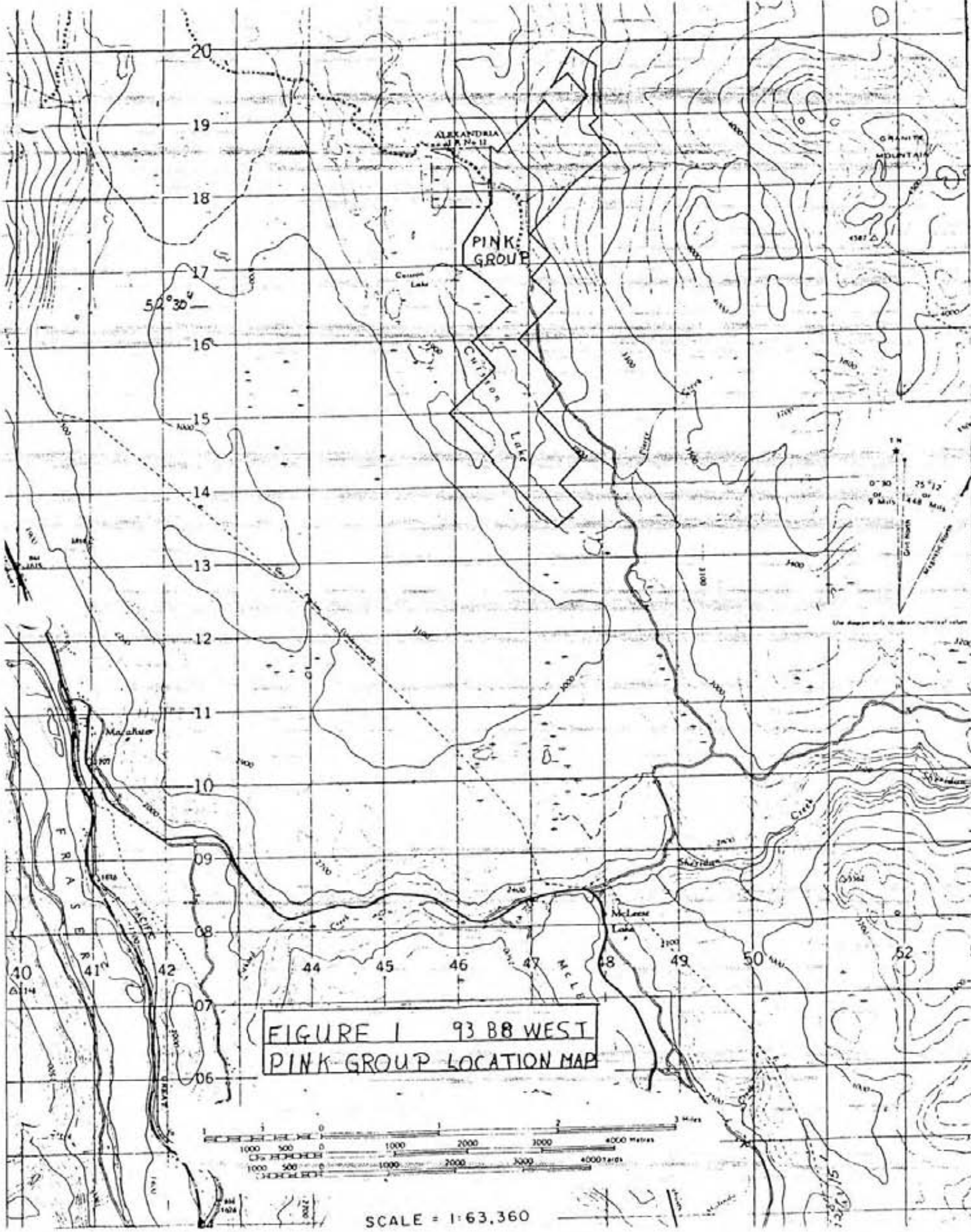
In 1958, Sunset (Major Mines Limited) took over 72 claims in this area. They did 3,000 feet (937.5 m.) of diamond drilling in ten holes and carried out a geological mapping program over the area.

In 1967, McPhar Geophysics Limited carried out an I.P. Survey for Cominco Limited which outlined a small anomaly at the northern end of the Pink Group.

Gibraltar Mines have held some claims in the area since 1962. In 1969 they drilled 15 N.Q. wireline holes as part of a larger program designed to test the extensions of the Granite Lake and Gibraltar East orebodies. Gibraltar Mines Limited was working under an agreement with Duval Corporation and Canadian Exploration Limited until 1971 when all interests reverted to Gibraltar. The claims presently in the Pink Group were grouped in 1972 and some of them have been taken to lease. Figure 2 shows a detailed location map of claims and leases in the Pink Group, all of which are owned by Gibraltar Mines Limited."1.

A further drill program was carried out by Gibraltar Mines in 1980 in which 14 vertical N.Q. wireline diamond drill holes, totalling 6,473 feet (2,022.81 m.) were used to test the extension of the adit zone ore. A narrow sulphide zone 1,150 feet in strike length was proven up.

This report covers a drill program designed to test for near-surface parallel ore zones on the northerly edge of the main zone as indicated by the previous drill holes. G. & D. Diamond Drilling was contracted during the period March 23 to March 29, 1983 to drill three vertical N.Q. wireline diamond drill holes totalling 984 feet (299.9 m). Core is stored at Gibraltar Mines plant site.



2.0 MINERAL CLAIMS

Claims and leases of the Pink Group are shown in Figure 2. Information on them is tabulated below.

G I B R A L T A R M I N E S L I M I T E D
17-MAY-83

C L A I M G R O U P S

PINK GROUP MINERAL CLAIMS
=====

NAME	RECORDED DDMMYY	RECORD NUMBER	UNITS	MINERAL LEASE	OPTIONED FROM
AL # 1	020754	28447	1		
AL # 2	020754	28448	1		
AL # 3	020754	28449	1		
AL # 4	020754	28450	1		
AL # 6	020754	28452	1		
EV #17	170166	31741	1		
EV #19	170166	31743	1		
EV 21	140666	36364	1		
EV 22	140666	36365	1		
PINETREE #1	040757	43029	1		
PINETREE #2	040757	43030	1		
PINETREE #3	060957	44488	1		
PINETREE #4	060957	44489	1		
PINETREE #5	060957	44490	1		
PINETREE #6	060957	44491	1		
STU #5	180759	52322	1		
VAL NO 1	180366	33324	1		
VAL NO 2	180366	33325	1		
VAL NO 4	180366	33322	1		
DOT N02	030366	34977	1	3526	M34
DOT N03	030366	34979	1	3526	M34
DOT N04	030366	34980	1	3526	M34
DOT N05	030366	34981	1	3526	M34
EST #5 FR	200571	62403	1	3526	M34
PAN N04	040562	25794	1	3526	M34
PAN N05	040562	25795	1	3526	M34
RUM #79 FR	010670	52233	1	3526	M34
ZEPHYR # 1	090162	25574	1	3526	M34
ZEPHYR # 3	090162	25576	1	3526	M34
ZEPHYR # 5	090162	25578	1	3526	M34
EST #6 FR	200571	62404	1	4150	M65
GIB 21 FR	210672	56784	1	4150	M65
JAN #2 FR	220171	61461	1	4150	M65
PAN N01	040562	25791	1	4150	M65

TOTAL UNITS 34

All of these claims belong to Gibraltar Mines Limited and adjoin to the south, east and north, 2-post claims of the Gibraltar Mines permanent property. The western edge of the group is bounded by Indian Reserves and private sub-divisions.

3.0 DRILL PROGRAM

3.1 OBJECTIVE

The purpose of this drill program was to test for near-surface mineralization parallel to the known ore. Three holes were drilled on the northerly edge of the previously defined body.

3.2 RESULTS

The drill locations are shown in Figure 2. No assays are available for the drill core at this time but visual estimates indicate a narrow low grade copper zone around 150 to 200 feet deep in these holes. The estimates reported here and in the logs are for total copper.

Hole 83-01 was cased to 32 feet. A narrow zone from 170 to 210 feet was estimated to contain an average of 0.28% copper. At 280 feet the main zone was intersected and the hole was stopped at 377 feet still in this zone.

Hole 83-02 was cased to 11 feet. An average grade of 0.19% Cu was estimated for the zone from 160 to 200 feet. A lower zone from 280 to 300 feet was estimated at 0.55% copper. This is likely associated with the main zone ore. The hole was drilled to 307 feet.

Hole 83-03 was cased to 33 feet. The zone from 150 to 200 feet was estimated to be 0.22% copper. This hole was drilled to 300 feet.

3.3 INTERPRETATION

Drill results from this report are thought to support a slight extension of the southwesterly dipping cross-structure of the main ore zone. No parallel north-east dipping structures were encountered. Narrow bands of Quartz-Chlorite and Quartz-Sericite Schists appear to be the hosts of the mineralization within a barren Quartz Diorite rock showing either saussurite or chlorite alteration.

5.0 CONCLUSIONS

No parallel ore zone was found by this drilling. No further drilling is recommended on the northeasterly side of the main zone.

Submitted by,

Madeline R. Schaumberger

Madeline R. Schaumberger
Mine Exploration Geologist

GIBRALTAR MINES LIMITED

APPENDIX I

STATEMENT OF QUALIFICATIONS

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

1. I am a geologist.
2. I am a graduate of the University of British Columbia, with a B.Sc. degree in geology in 1966.
3. From 1966 to the present I have been engaged in mining and exploration geology in British Columbia.
4. I personally supervised this drill program, logged the core and assessed the results.



Garry D. Bysouth

APPENDIX I

STATEMENT OF QUALIFICATIONS

I, Madeline R. Schaumberger, of Gibraltar Mines Limited, McLeese Lake, British Columbia, do certify that:

1. I am a geologist.
2. I am a graduate of the University of British Columbia with a B.Sc. 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

cel.....calcite
carb.....carbonate
chl.....chlorite
cp.....chalcopyrite
cran.....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

G. D. Bysouth, Diamond Drill Report on the Pink Group, Cariboo Mining Division, 93 8/8, July 3, 1980.

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Values L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Feather Discor.	Estimated Core Recovery %	R O D	ASSAY RESULTS				
										LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu	% Mo
			45-50 Str.	80	35 50x2 40x3 60 50 40x2	1/16 1/8 1/8 1/8	hem r qtz-chl-hem ex hem ex ep qtz-carl-chl hem r	0 10 20 30 40 50 60 70 80 90	2.5			77	88%	65					.05
			45-50 Str.	90		2"	qq-bx	0 10 20 30 40 50 60 70 80 90	2.5	highly broken core ~ 4' core lost carb-hem-qq coatings		37	58%	7					.05
		Pass. fault; zone - steep fractures and numerous qz veins	50 Mod	100		4" 3"	qq qq	0 10 20 30 40 50 60 70 80 90	2.5	highly broken core qq-carb coatings		95	42%	5					.05
			70-80 Mod	110		2"	qtz-chl	0 10 20 30 40 50 60 70 80 90	2.5	60-80' frac. base cut (qz) coatings		101	80%	30					.05
		Fault Zone 116-122	70 Mod	120	5 50	1/16 1/8	qq qtz-chl-carb	0 10 20 30 40 50 60 70 80 90	2.5	highly broken core 116-122 qq-carb coatings		116	90%	20					.05
			60 Wk. Mod	130	5x4 40x2 35	1/16 1/8 1/8	qq + qq-ep-chl ex qtz-chl	0 10 20 30 40 50 60 70 80 90	2.5	qq-carb coatings qq-carb coatings		122 127	50% 70%	48					.05

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GIBRALTAR MINES LTD.

HOLE No. 33-01
SHEET No. 3 of 7

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Values L to Core Cells	Width of Vein	Mineralisation	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Footage Block.	Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu
			50- 55 Wk- Mod	140	50x2 30x2 30x2+30	1/10 x 2 1/8 + 1/16 1/20 x 2	qtz-chl-ep x 2 qtz-chl-carb x 2 hem.	0 10 20 30 III I 40 II 50 60 III 70 II 80 III I 90	2.5%		137	100%	88%					.05
			70 Wk- Mod	150	70x3 70x2 60x3 70x3 70 30x2	1/20 x 3 1/8 + 1/16 1/20 x 3 1/20 x 3 1/2 1/20 x 2	chl (hem) x 3 qtz-chl x 2 qtz-chl (py) x 3 chl (py) qtz-chl (py) hem x 2	0 II 10 III 20 II 30 III 40 III 50 II 60 III 70 III 80 III III II 90	2.5%		147	95%	45%					.05
			70- 50 Wk	160	50 20 20 ?	2" 1 1/2" 2"	qtz-chl-ep zone qtz-chl-ep zone (+ pink zone) qtz	0 I 10 20 30 I 40 II 50 60 70 III I 80 III III III III III 90	2.5%		157	98%	25%					.10
			70 Wk	170	70 80 90 45 60	3" 2" 8" 1/2" 1"	qtz-ep-chl zone qtz-chl zone qtz-chl-carb (ep) zone chl-ep qtz-chl-carb-ep zone	0 10 20 30 II 40 I 50 II 60 III 70 III 80 III III 90	2.5%		163	80%	70%					.12
			80 Wk- Mod	180	60 45 60x3 70 80 45 70?	2" 2" 1/20 x 3 8" 2 1/2" 8" 5"	qtz-chl (ep) zone qtz-chl (py) zone chl (ep) x 3 qtz-chl (ep) zone qtz-chl-ep qtz-chl-py (ep) zone qtz-chl-ep-py zone	0 I 10 20 30 40 II 50 III 60 III 70 III III 80 III III III III 90	2.5%		173	85%	65%					.20
			80 Wk	190	80 80 5x2 25x2	2" 2 1/2" hex 1/10 x 2	chl qtz-ser-chl-ep zone hem x 2 qtz-chl-ep x 2	0 III II 10 20 30 II 40 I 50 III 60 III III 70 III 80 III III III III 90	2.5%		181	70%	15%					.25

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HOLE No. 83-01
SHEET No. 4 of 7

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Vein L to Core Axis	Width of Vein	Mineralisation	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE	SUPERGENE			Sample Number	% Cu	% Mo	
alter zone do not have silica enrichment grade of 2000 into definite zones.			80 WX	200	70	6"	qtz-cs - cp zone	0	<.5	highly broken core	197	65%	32%				.35	
					72	2"	qtz-cs (cp) + solid-qq zone	10										20
			80 WX	210	70	2"	chl-ep (py)	0	1.0%	chl. carb. - ss or some fractures; most are open.	207	100%	100%				.30	
					80	1"	qtz-chl- (garnet)-py-cp zone	10										20
			80 WX	220	80	2"	chl-py	0	<.5	chl carb. - qq or some fractures; most are open.	217	100%	73%				.05	
					80	2"	qtz-cs (vug)	10										20
			ND + very WX 10" 50"	230	85	1"	chl-carb.	0	<.5	chl or some fract. most are open.	227	100%	84%				.05	
					80	1"	chl-carb.	10										20
DARK ALTERATION ZONE (228-288) Fault			80 with minor fol. & cren- str.	240	70-80	6"	qtz-chl-ep-garnet (py)(cp) zone	0	1.0%		237	86%	40%				.20	
					30"	3'	qq+bc (12' solid qq)	10										20
this zone is mineralogically similar to the smaller zones noted above - cp & py. lie along foli- planes and in massive veinlets - only the larger veinlets are pyritic.			80 minor fol. & cren str	250	80	1"	chl-cp	0	1.0%	3000 - 11 - 11 - 11 55	247	96%	40%				.25	
					80	1"	chl-cp	10										20

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Vains L to Core Axis	Width of Vain	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Feather Discr.	Estimated Core Recovery %	R O D	ASSAY RESULTS				
										LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu	% Mo
DARK ALTERATION ZONE (228-288')			70 + Cren Str.	260	70 x 3	1/4 + 1/10 x 2	cp	0 10 20 30 40 50 60 70 80 90	<.5			257	92%	38%					
This zone contains chl-gtz-ser-carb- cp-garnet in varying concentrations - crenulation appears to incr with sericite			80 + Cren Str.	270	45	1/2	99	0 10 20 30 40 50 60 70 80 90	<.5	chl-carb-Lgg on fractures		267	90%	15%					.12
			80 + Cren Str.	280	??	12"	99	0 10 20 30 40 50 60 70 80 90	<.5	~ 1/2 of the core is in <2" dia. frags.		277	95%	6%					.10
			Complex Cren -mainly 30° str.	288	45 30 20 15	8" 1/2 1/4 1/10	qtz-cp (+ pulverized blk mineral.) qtz-carb-cp qtz-carb-garnet-cp chl-py	0 10 20 30 40 50 60 70 80 90	1.0%	ser. on fract.		287	75%	38%					.50
QUARTZ SERICITE				290	40 50 x 2	1/8 x 2 1/4 + 3/4	cp x 2 cp x 2	0 10 20 30 40 50 60 70 80 90											
PYRITE ZONE (288-304)			50- 60 str.		60+50 50 x 2 60-50 x 5 50 50 x 4 50 + 5 x 2 + 15	1/4 x 2 1/4 x 2 1/10 - 1/4 2" 1/10 x 4 1/4 + 1/8 + 1/2"	cp x 2 cp x 2 py x 5 qtz-py py x 4 carb-cp + 99 x 2 + ser-cp	0 10 20 30 40 50 60 70 80 90	3%	chl-ser on fract.		297	98%	40%					.50
				300				0 10 20 30 40 50 60 70 80 90				300	92%						
Fault Con? 304					5? 50? 30	1/8 x 3 2" 2"	cp x 3 qtz-cp 99	0 10 20 30 40 50 60 70 80 90											
DARK ALTERATION ZONE (304-377) as above			Complex prob Steep 20- 40°	310	40 25 15 80	2" 3" 1/8 1/8	qtz-ser-cp qtz-ser-cp ser-cp ser-cp	0 10 20 30 40 50 60 70 80 90	1.0%	chl-ser-Lcarb on fract.		307	60%	23%					.80
								0 10 20 30 40 50 60 70 80 90					70%						

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HOLE No. 83-01
SHEET No. 7 of 7

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Yelns L to Core Alt	Width of Vels	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Footage Block.	Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE	SULPERGENE				Sample Number	% Cu	% Mo	
			70- 85 etc.		50-70 x 7 70 80-100 x 40 40-50 87-100 x 2 80	1/2 x 7 6" 1/20 x 10 x 70 2" 1/20 1/20	cp x 7 qtz - ser - py (cp) zone cp x 3 qtz - ser - py cp x 4 cp chl - py	0 10 20 30 40 50 60 70 80 90	3.0%			377	100%	98%				.80	
				377				0 10 20 30 40 50 60 70 80 90											
								0 10 20 30 40 50 60 70 80 90											
								0 10 20 30 40 50 60 70 80 90											
								0 10 20 30 40 50 60 70 80 90											
								0 10 20 30 40 50 60 70 80 90											
								0 10 20 30 40 50 60 70 80 90											
								0 10 20 30 40 50 60 70 80 90											
								0 10 20 30 40 50 60 70 80 90											

E.O.H @ 377'

M.R. Schaumberger
L.D. Bryant

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HOLE No. 83-2
SHEET No. 1 of 6

LOCATION <u>GIBRALTAR WEST</u> <small>(N. Wall)</small>	BEARING _____	LATITUDE <u>48°15.25 N</u>	CORE SIZE <u>N.O.W</u>	LOGGED BY <u>G.D.B., M.R.S.</u>
DATE COLLECTED <u>March 25, 1983</u>	LENGTH <u>307</u>	DEPARTURE <u>43,475.22 E</u>	SCALE OF LOG <u>1" = 10'</u>	DATE <u>April 4, 1983</u>
DATE COMPLETED <u>March 27, 1983</u>	DIP <u>-90</u>	ELEVATION <u>3,088.84</u>	REMARKS _____	

ROCK TYPES & ALTERATION	L to Core Foliation	GRAPHIC LOG Foliation Alteration Foliation Structure	Veins L to Core Alt'n	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Footage Blow %	GEOLOGICAL BRANCH ASSESSMENT REPORT					Estimated Grade
								LEACH CAP	0		LIM. ZONE	50 (weak)	SILPERGENE	0		
Casing to 11'											11,577					
MINE PHASE QUARTZ DIORITE (11' - 175')	45- 55 Mod		15-20 x 3 10	hlt + 1/2 + 1/10 1/10	chl-lim x 2 chl		<.5	good fresh rx. @ surface.	14 17	60 55	8					.05
Saus. Alt'n with numerous dark bands	45- 70 Mod		50 x 4 50 40 50	hlt x 1/2 1/8 1/8	lim - Mns. v + qtz-chl-ep qtz-chl- qtz-chl-py		.5	hem no coats or gg. chl.	25	95	70					.05
Avg comp.: 30% qtz, 15% chl, 50% saus.	50- 60 Mod		8" 50 + 55 50	1/10 1/8 + 1/10 1"	qtz (chl) qtz-chl-py x 2 qtz-chl-lim zone		.5	hem mainly chl-ser - a few 45° have no coats or wk gg.	35	100	90					.05
Med. - coarse grained Some finer grn. mafic-rich inclusions (3 modalities)	60 Mod		20 60 45 45	1/10 6" 1/2 1"	chl-ep-qtz qtz-chl-ep zone qtz-chl-ep qtz-chl-py (ep)			chl no coats or hem - most 45° have no coats or lim chl ser	45	100	80					.05

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GIBRALTAR MINES LTD.

HOLE No. 83-2
SHEET No. 2 of 6

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG Foliation Alteration Footage Sticks/ft	Veins L to Core Ave	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE	SUPERGENE			Sample Number	% Cu	% Mo	
										REMARKS	Footage Block							
			45-50 Mod	60	30 45 45 70 50	1/8 1/2 1/2 1/4 6"	qtz-chl-ep qtz-chl-ep qtz-chl-ep qtz qtz-chl-ep (jug) ((cc))	0 10 20 30 40 50 60 70 80 90	.5		carb. hem. lim	55	93				.10	
			50-60 Mod-Str.	70	10-20 x 2 15 40 45 50 55	hlc x 2 1/10 2 1/2" 8" 1/8 10"	hem x 2 qtz-chl-py qtz-chl-ser-cp dark zone + qtz-ser-cp veins qtz-chl-py dark zone + qtz-carb-chl-cp	0 10 20 30 40 50 60 70 80 90	.5	carb hem	65	63				.20		
			50-60 Mod	80	45 20 x 2 45 50	1/2 1/10 x 2 1/10 x 2 14"	qtz-chl-carb-cp hem-carb x 2 (+ pink stained core) qtz-chl-py x 2 qtz-chl-carb-py-cp zone	0 10 20 30 40 50 60 70 80 90	.5	carb hem	75.5	23				.15		
		Fault Zone 75'-87'	60-70 Mod	90	5? 5-15" 5 x 2	4' 7' 1/20 x 2	zone of broken + ground core - hem(lim) stains qq-bx-hem hem-qq x 2	0 10 20 30 40 50 60 70 80 90	<.5	carb hem	81	22		24' core lost @ 80-87'		.10		
			50-60 Mod-Str.	100	45 60 5 42 35 40 50 60 30+50	1/4 1" 3/4 1" 2" 1/10 6" hlc-1/10 x 2	qtz (@ rt L's to folie) qtz qtz with hem on walls qtz-chl-cp qtz-chl-ep-py-cp qtz-chl-py dark zone (py) qtz-chl-cp-py	0 10 20 30 40 50 60 70 80 90	.5		94	73				.15		
			45-50 Mod	110	20 30 50 45 55 60 5	12" 2" 1/4 1" 6" hlc	dark zone + qtz-cp dark zone + qtz-chl-cp-py qtz-chl-cp qtz-chl-carb-cp qtz-chl-carb-cp qtz-chl-carb-cp Hem	0 10 20 30 40 50 60 70 80 90	.5		107	75				.40		

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GIBRALTAR MINES LTD.

HOLE No. 83-2
SHEET No. 3 of 6

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG		Valve L to Core Axis	Width of Valve	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Footage Discr.	Estimated Core Recovery %	R O D	ASSAY RESULTS			
				Foliation Alteration	Footage						Structure	LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu
			60 Mod	120	40 10 50 35 50 60 70 80 90	1/10 3"	1/10 3"	chl-ep. dark zone + (qtz-py-cp) dark zone + qtz-py-cp	0 10 20 30 40 50 60 70 80 90	.5			117	98	60				.15	
			30-45 60 70 Mod Str	130	50 70 80 90 5 5	1/2 2" 1/4 2" 1"	1/2 2" 1/4 2" 1"	chl-py qtz-chl-py (cp) qtz-chl-ep-py qtz-chl-ep qtz-chl-py-cp qtz-chl-ep-py qtz-cp	0 10 20 30 40 50 60 70 80 90	.5		127	98	85				.12		
			60-80 wk-Str	140	80 90 20 45	1/2 2" 1/2	1/2 2" 1/2	qtz-chl (ser) carb-py zone qtz-chl-ep hem-carb	0 10 20 30 40 50 60 70 80 90	1.0		135	100	48				.10		
			45-70 wk-Mod	150	55+65 15 70+45 55 x 2 15 + 20 x 2	2" x 2 1/10 1/10 x 2 1/4 x 2 hex 3	2" x 2 1/10 1/10 x 2 1/4 x 2 hex 3	qtz-chl-ep (cp) py x 2 chl-ep qtz-chl-ep x 2 qtz-chl-carb-ep x 2 hem x 3	0 10 20 30 40 50 60 70 80 90	.5	carb-hem	145	100	72				.15		
			70-80 wk-Mod	160	70 80 x 2 70	6" 2 1/2" x 2 1/2	6" 2 1/2" x 2 1/2	qtz-chl-ep-py qtz-chl-ep-cp x 2 qtz-chl-ep-cp-py	0 10 20 30 40 50 60 70 80 90	<.5	minor carb-hem	155.5	97	90				.10		
			60-80 wk-Str	170	50 60 80 80 60	14" 12" 2" 2" 25"	14" 12" 2" 2" 25"	qtz-chl-ep (py) zone dark zone + (qtz-carb-py-cp) qtz-chl-py qtz-chl (cp) qtz-chl-(py)(cp) zone	0 10 20 30 40 50 60 70 80 90	1.0		166	95	83				.20		

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 83-2
SHEET No. 4 of 6

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Veins L to Core Alt	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS					
										Leach Cap	LIM. ZONE	SUPERGENE			Remarks	Footage Block.	Sample Number	% Cu	% Mo	
DARK ALTA ZONE (175-230')	80-90 Mod	175	80	180	60-70x5	1/10 x 4 1/2" x 1"	qtz-chl-py x 4 qtz-chl-py qtz-chl-ep qtz-chl-py x 5 dark zone - diss. py (cp) qtz-py-cp chl-ep qtz-chl-garnet-cp-py	0 1 10 1 20 30 1 40 50 60 70 80 90	.5	chl-carb-gg chl (rare) (scr)	176.5	93	65				.15			
																		15 55 70 70	1/2 1/4 1/8 2 1/2"	chl-garnet-cp qtz-chl-garnet-cp qtz-py (cp) qtz (chl)-mag-py-cp
- grades to a chl-garnet alt and over 1/2 of the zone is med-fine grn.	80-90 Mod			190	70 65 45x2	1" x 1" 1/2 x 2	qtz-chl-ep qtz-chl-py chl-ep x 2	0 1 10 20 30 40 50 60 70 80 90	1.0	carb chl (rare)	197	98	83						.20	
- a few narrow zones of ss. and chl-ep-bx	80-90 Mod			200	70 65 45x2	1" x 1" 1/2 x 2	qtz-chl-ep qtz-chl-py chl-ep x 2	0 1 10 20 30 40 50 60 70 80 90	1.0	carb chl (rare)	197	98	83							.20
	90 Mod- Str			210	50 30	2" x 36"	qtz-ser-py chl-ep-bx zone	0 1 10 20 30 40 50 60 70 80 90	1.0	chl-carb	207	100	80							.12
	70-90 Mod- str			220	80 80 x 4 90 80 90 x 2	1" x 1/20 x 4 20" x 1/2 1/10 x 2	qtz-chl qtz-chl-ep-py x 4 chl-py-cp zone qtz-chl-py chl-py x 2	0 1 10 20 30 40 50 60 70 80 90	1.0	chl-carb chl (carb)	217	100	82							.15
Small steep fault?	90 WK- Mod			230	90 90 70 80 5 30 5	1/2 x 10" x 2" x 3'	chl-carb-cp chl-ep-bx chl-(carb-qtz) cp banded chl-ep-qtz-py zone bx hem stained core	0 1 10 20 30 40 50 60 70 80 90	.5	carb hem chl-carb	227	98	54							.12

ROCK TYPES & ALTERATION			L to Core Fallities	GRAPHIC LOG	Yield L to Core Ass	WIDTH OF Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Feather Direct.	Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE	SUPERGENE				REMARKS	Sample Number	% Cu	% Mo
MINE PHASE Saus 4-6 very weak to 245' (ie. 1/2 phase cut off not distinct)			60- 90 Wk. Med	240	20 x 2	1/16 x 3	carb-hem x 2	0 10 20 30 40 50 60 70 80 90	.25	hem		237	94	55					10
(230 - 275')			60- 90 Wk. Med	250	5 5 10-20 40-50 50	30" n.c 1/2 1/2-1/6 1/2	bandd qtz-chl-ep zone hem qtz-ep-py qtz-chl-py-ep gg-hem x 2 chl-ep	0 10 20 30 40 50 60 70 80 90	.5	hem + carb		247	97	58					15
Small fault (pass steep)			90 Wk. Med	260	70 80 80 80	2" 1/2 x 3 1/2 30" 5"	carb-hem hem x 2 qtz-chl-carb-ep qtz-chl-ep (py) zone qtz-ep zone bc-gg-hem	0 10 20 30 40 50 60 70 80 90	.5	carb-hem chl-carb		252	99	66					20
re occurring small veins ser- carb			60- 80 Med	270	70 65 30 80 50	2" 8" 1/2 1/2 2"	chl-ep-carb-py-ep zone qtz-chl-ep-carb-py-ep zone to-ep-carb carb-py (ep) chl-carb-ep	0 10 20 30 40 50 60 70 80 90	.5	hem-chl-carb		261	100	60					15
			60- 90 Med- Str.	275	30	hie	hem	0 10 20 30 40 50 60 70 80 90	.25	chl-carb		277	90	45					10
CARBONATE - SERICITE-CHLORITE			90 Crea. Str	280	10-90 (Crea) 50 70 (Crea) but Crea.	24" 1/2 5'	qtz-chl-ser-carb-py-ep zone qtz-carb-py-ep qtz-ser-carb-chl-ep (py)	0 10 20 30 40 50 60 70 80 90	1.0	chl-ser. (carb)		287	99	68					70

GRID _____

GIBRALTAR MINES LTD.

HOLE No. B3-2
SHEET No. 6 of 6

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG Foliation Alteration Feet Scales	Veins L to Core Aft	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Feet Block	Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE	SUPERGENE				REMARKS	Sample Number	% Cu	% Mo
			60-90 Mod	300	70 60 80 80 40	12" 1/2" 1/2" 1/2"	qtz-ser. carb-ep qtz-ser-ep qtz-ser-ep ch-ep qtz-car-ser	0 11 10 1 20 11 30 11 40 11 50 11 60 11 70 11 80 11 90 11	.5	- chl-carb -99 chl-carb.	297	99	96				.40		
		EOH 307	90 wk. Med		20 4 4	2	chl-carb (qtz)	0 11 10 1 20 11 30 11 40 11 50 11 60 11 70 11 80 11 90 11	.5	hem-carb chl-carb	307	99	87				.10		
								0 11 10 1 20 11 30 11 40 11 50 11 60 11 70 11 80 11 90 11											
								0 11 10 1 20 11 30 11 40 11 50 11 60 11 70 11 80 11 90 11											
								0 11 10 1 20 11 30 11 40 11 50 11 60 11 70 11 80 11 90 11											
								0 11 10 1 20 11 30 11 40 11 50 11 60 11 70 11 80 11 90 11											
								0 11 10 1 20 11 30 11 40 11 50 11 60 11 70 11 80 11 90 11											
								0 11 10 1 20 11 30 11 40 11 50 11 60 11 70 11 80 11 90 11											

M.R. Schamberger
J.C. Rydell

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 83-03
SHEET No. 2 of 5.

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG Foliation Alteration Footage SILVERVILLE	Value L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE			Footage Discord.	Sample Number	% Cu	% Mo
			80-90 WK to Mod.	80	70+80	2" 3" x 2"	qtz-chl-carb qtz-chl-carb (ep) - py (ep) x 2	0 10 20 30 40 50 60 70 80 90	.5	carb-lim. chl-ser Partings	97%	86%				.10	
			80-90 WK to Mod.	90	80 70 65 40	2" 6" 3"	qtz-chl-ep zone qtz-chl-(py)(ep) qtz-chl-ep zone qtz-chl-ser-ep zone qtz-chl-ep	0 10 20 30 40 50 60 70 80 90	.5	chl-carb. chl. Partings.	108%	100%				.15	
		approaching d/c alt zone	70-90 WK to Mod.	100	35-60 60 70	2" 1/4" 6"	qtz-chl-ep zone qtz-ser-ep qtz-ser-chl-ep (py)(ep)	0 10 20 30 40 50 60 70 80 90	.5	lim carb carb-lim. chl Partings.	100%	80%				.15	
		numerous zones of shearing & cataclastic deform without much metasomatic alt.	80-90 WK to Mod.	110	15+70 70 55	1/2" x 2" 7" h/c	lim + qtz-lim qtz-chl-carb zone lim	0 10 20 30 40 50 60 70 80 90	< .5	<lim x carb> one has lim. chl Partings.	96%	68%				.05	
			70-90 WK to Mod.	120	70 x 2	1/10 x 2	qtz-chl-lim x 2	0 10 20 30 40 50 60 70 80 90	< .5	carb-lim. one has (lim)	100%	92%				.05	
			70-90 WK to Mod.	130	65 5+80 70 65 70	12" h/c x 2 2" 1" 2"	chl-lim chl-lim chl-qtz-carb zone lim x 2 qtz-chl-py qtz-ser-chl-py-ep qtz-ep-garnet?	0 10 20 30 40 50 60 70 80 90	< .5	carb-lim. chl-(ser) Partings few have (lim)	100%	95%				.10	

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 93-03
SHEET No. 3 of 5

ROCK TYPES & ALTERATION			GRAPHIC LOG	Valms L to Core Aul	Width of Valms	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Footage Direct	Estimated Core Recovery %	R O D	ASSAY RESULTS			
									LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu
		fine grn diarite (inclusion?)	70-90 WK to Str.	80 70 65 140	10" 1/2" 1/2" 10"	diorite qtz-chl-ser qtz-chl-ser qtz-carb.	0 10 20 30 40 50 60 70 80 90	<.5			137	100%	93%				.05
			60-90 Mod.	45 x 2 45 30 45 150	8" x 2 1/2" 14" 3 1/2" 6"	qtz-py(ep) (greyish qtz) x 2 qq + bi + hem (6-8" solid qq) qtz-chl-py-carb zone qtz-chl-carb-py(ep) zone	0 10 20 30 40 50 60 70 80 90	.5	MS-147 Mostly gg-hem-carb. chl-ser-carb hem-carb		147	98%	72%				.10
			60-80 Mod.	40 30 60-70+80 60 70 80 x 2 70 160	1/10 1" 1" - 1/2 x 2 1/8" 3" 1/2 x 1 6"	carb-lim-hem qtz-chl-ep-py qtz-chl-py(ep) x 2 hem qtz-chl(ep) (py) zone qtz-chl(ep) x 2 qtz-chl-ep-py	0 10 20 30 40 50 60 70 80 90	.5	carb-hem. chl-ser-carb-hem.		157	119%	100%				.18
			70-90 WK to Str.	40 70 x 2 70 70 170	4" 30" x 3" 32" 1"	qtz-chl-carb (vul) qtz-chl-ser-garnet-py-ep zone qtz-chl-ser-garnet-py-ep zone qtz-chl-ser-garnet-py-ep zone chl-garnet-py-ep zone	0 10 20 30 40 50 60 70 80 90	1.5	chl-ser-carb		167	100%	95%				.25
			60-90 WK to Str.	80 46 45 x 2 46 50 30 180	2" 1" 2" x 3" 2" 3" 3"	chl-ep-py qtz (excess foln) qtz-chl-ep x 2 qtz-chl-py-ep chl-py-ep	0 10 20 30 40 50 60 70 80 90	1.0	chl Partings + clear fractures.		177	100%	105%				.20
			80-90 Str.	70-80 80 190	7" 10"	chl (py) (ep) py-ep qtz-chl-ser-carb-py-ep	0 10 20 30 40 50 60 70 80 90	1.0	chl Partings.		187	100%	102%				.20

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GIBRALTAR MINES LTD.

HOLE No. 83-03
SHEET No. 4 of 5

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG Foliation Alteration Fracture Structure	Value L to Core Axis	WIDTH of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS				
										LEACH CAP	LIM. ZONE	SUPERGENE			Feet Direct	Sample Number	% Cu	% Mo	Estimated Grade
			80-90° Mod. to Str.	80 60-80 70 50-70 200	14" 2" + 2 1/2" 2" 2" + 3" x 2		qtz-chl-py zone qtz-chl-ep x 2 qtz-chl-ep zone qtz-chl-ep (py) zone	0 10 20 30 40 50 60 70 80 90	1.0			114%	93%					.25	
			80-90° WK.	40 80 210	2" 3" 4"		qtz chl-ep (py) zone qtz-ep Dx zone (poss. silicified)	0 10 20 30 40 50 60 70 80 90	.5			98%	87%					.05	
			60-90° Wk Str.	70 5-70 2 220	2 1/2" 12" 1"		qtz (chl) wsg - with feld qtz-chl-ep (py) zone qtz	0 10 20 30 40 50 60 70 80 90	.5			100%	99%					.05	
		CHLORITE																	
		EPIDOTE ZONE (217-250) - minor disse. garnet in high chl. bands - mainly a banded alt. zone with some bx'n	80-90° Str.	80 230	8"		chl. garnet-py-cp	0 10 20 30 40 50 60 70 80 90				99%	85%					.10	
			80-90° Str.	80 240	70-80° 2"		chl-ep py-cp	0 10 20 30 40 50 60 70 80 90				95%	40%					.10	
			80-90° Str.	80 250				0 10 20 30 40 50 60 70 80 90				75%	30%						

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GIBRALTAR MINES LTD.

HOLE No. 83-03
SHEET No. 5 of 5

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Vains L to Core Axis	Width of Vain	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Footage Dissect.	Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu
CHLORITE-SERICITE -CARBONATE ZONE (250-278)			80-90° Str.	260	80x2 80x2 70	1/10 to 3"-2" 2"	chl-ep- chl-ser-py-cpx qtz-ser-ep Fine disse py-ep sphal Fe-Mn staining water	0 10 20 30 40 50 60 70 80 90	1.0			257	106%	77%				.25
at 262-276 ser+carb >> chl and cren. increases + decrease in dissem. py-ep			80-90° Str. 264 269-278 Chrs 80-90°	270	80x2 30 10-80 80	1" x 2 2" 24" 2"	chl-py-ser-py chl-rich boards dissem py-ep	0 10 20 30 40 50 60 70 80 90	.5	qtz flooded ser. chlon partings on open.		267	100%	106%			.15	
				278	30x3 70	1" x 3	qtz-carb-ser	0 10 20 30 40 50 60 70 80 90	.5	No Coatings		277	98%	78%			.10	
278-300' Mainly Same Alt'd MINE PHASE QUARTZ DIORITE - Coarse to Med. Grained, greyish to a bright light green saur. alt'n			90° Str. V.W.K. & Var.	280	20 5° 5° 15° to 10° 60 20° to 12° 50° 20°	1" 1/8 1/8 1/8 1/8 1/8 1/8 1/8	qtz-chl-py qtz carb-chl carb-hem qtz-carb-chl qtz-carb-chl DR Alt'n - qtz-chl-py qtz-carb-chl	0 10 20 30 40 50 60 70 80 90		Most fractures are clear - a few have chl.		287	97%	83%			.05	
				290	15° 70° 15° 40° 30° 110° 70°	1/4 1/8 1 1/2 2 1/2 1/4	qtz-ep-pied-carb. qtz-carb. qtz-chl-ep-carb-ep-py qtz-chl-ep-cpx qtz-chl-ep-carb-sphal-ep qtz-chl-py-ep qtz-chl-carb.	0 10 20 30 40 50 60 70 80 90		Most fractures are clear - a few have chl. Sphal finely chd in v. lin.		297	100%	97%			.12	
End of hole at 300'				300				0 10 20 30 40 50 60 70 80 90				300	93%					

M.R. Schaumburger
L.D. Bysant

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GIBRALTAR MINES LTD.

HOLE No. 83-03
SHEET No. 1 of 5

LOCATION GIBWEST North Wall
DATE COLLECTED March 27, 1983
DATE COMPLETED March 28, 1983

BEARING _____
LENGTH 300'
DIP -90°

LATITUDE 49,049.02' N
DEPARTURE 43,416.98' E
ELEVATION 3,103.87

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

LOGGED BY GDB & MRS
DATE April 6, 1983

ROCK TYPES & ALTERATION	L to Core Foliation	GRAPHIC LOG	Veins L to Core Alt	WIDTH of VEIN	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		REMARKS	Footage Blot.	GEOLOGICAL BRANCH ASSESSMENT REPORT						
								LEACH CAP	LIM. ZONE			Recovery %	Number	% Cu	% Mo	Estimated Grade		
<u>Cased to 33'</u>																		
<u>MINE PHASE QUARTZ DIORITE (33-)</u>	80-90° WK.	33	5 45 30 70 x 2 45	hlc 1/20 hlc hlc x 4 1/8	MnO2 MnO2 KNO3 MnO2 x 4 chl-py	0 10 20 30 40 50 60 70 80 90												
<u>- Saus Alt'n - 30% qtz - 20% chl. - 45% Saus</u>	70° WK to Mod.	40	5+90	8'	broken core minor qz	0 10 20 30 40 50 60 70 80 90	<.5				33	68%	19%					.05
<u>- med grn.</u>	70-90° WK to Mod.	50	50+70	2" x 3"	qtz-chl-carb zone x 2	0 10 20 30 40 50 60 70 80 90	<.5	carb. lim. (MnO2)		47	50%	17%						.08
	70-90° WK to Mod.	60	70-60 x 6 5+80	2"	chl-ep(cp) chl (pr)(cp) qtz-chl-(ser)(py)(cp) zone x 2	0 10 20 30 40 50 60 70 80 90	.5	carb-lim. open fractures or chl. <lim? carb-lim.		57	90%	85%						.10
	80-90° WK.	70	50 80 30	10" hlc 3" 1/8	lx core + minor qz lim qtz-chl-carb (pr) chl.	0 10 20 30 40 50 60 70 80 90	<.5	egg-carb		62	77%	68%						.08

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GIBRALTAR MINES LTD.

HOLE No. 83-03
SHEET No. 2 of 5.

ROCK TYPES & ALTERATION		L to Core Foliation	GRAPHIC LOG	Veins L to Core Att	DIP OF VEIN	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimate Core Recovery %	R O D	ASSAY RESULTS			Estimated Grade
									LEACH CAP	LIM. ZONE			Sample Number	% Cu	% Mo	
		80-90 WK to Mod.	80	80	2° 3°-2°	qtz-chl-carb qtz-chl-carb (ep) - py (ep) x 2	0 10 20 30 40 50 60 70 80 90	.5	carb-lim. chl-Ser Partings	97%	86%				.10	
		80-90 WK to Mod.	90	80	2 1/2° 6° 3°	qtz-chl-ep zone qtz-chl-(py)(cp) qtz-chl-ep zone qtz-chl-ser-ep zone qtz-chl-ep	0 10 20 30 40 50 60 70 80 90	.5	chl-carb. chl. Partings.	108%	100%				.15	
	approaching dis alt zone	70-90 WK to Mod.	100	35-60	2° 1/4° 6°	qtz-chl-ep zone qtz-ser-ep qtz-ser-chl-ep (py)(cp)	0 10 20 30 40 50 60 70 80 90	.5	lim carb carb-lim. chl Partings.	100%	80%				.15	
	numerous zones of shearing & cataclastic deform without much metasomatic alt's.	80-90 WK to Mod.	110	15-20	hlc x y 7° hlc	lim + qtz-lim qtz-chl-carb zone lim	0 10 20 30 40 50 60 70 80 90	<.5	<imp & carb> one has lim. chl Partings.	96%	68%				.05	
		70-90 WK to Mod.	120	70 x 2	1/10 x 2 1/2° 1/10	qtz-chl-lw x 2 chl-lim chl-lim	0 10 20 30 40 50 60 70 80 90	<.5	carb-lim. one has lim) chl-Ser Partings.	100%	92%				.05	
		70-90 WK to Mod.	130	65 5+80	hlc x 2 2° 1° 2°	chl-qtz-carb zone lim x 2 qtz-chl-py qtz-ser-chl-py-ep qtz-ep-garnet?	0 10 20 30 40 50 60 70 80 90	<.5	carb-lim chl-(Ser) Partings = few have lim)	100%	95%				.10	

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 83-03
SHEET No. 3 of 5

ROCK TYPES & ALTERATION	L to Core Foliation	GRAPHIC LOG	Veins L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Footage Dissect.	Estimated Core Recovery %	R O D	ASSAY RESULTS			
								LEACH CAP	LIM. ZONE				Sample Number	% Cu	% Mo	Estimated Grade
Fine grn diorite (inclusion?) 70-90° Wk to Str.		140	80	16"	diorite	0	2.5		137	100%	93%				.05	
			70	1/2	qtz-chl-ser	10										
60-90° Mod.		150	65	1/2	qtz-chl-ser	30	.5	145-147 Mostly gg-hem-carb. chl-ser-carb hem-coatings	147	98%	72%				.10	
			45 x 2	8" + 2 1/2"	qtz-py(ep) (grey-blk qtz) x 2	20										
60-80° Mod		160	45	14"	gg + bx + hem (6" x 3" solid gg)	30	.5	carb-hem. chl-ser-carb-hem.	157	114%	108%				.18	
			30	3 1/2"	qtz-chl-py-carb zone	40										
70-90 Wk to Str.		170	45	6"	qtz-chl-carb-py(ep) zone	50	1.5	chl-ser-carb	167	100%	95%				.25	
			40	1/10	carb-lim-hem	60										
60-90 Wk to Str.		180	30	1"	qtz-chi-ep-py	70	1.0	chl Partings + clear fractures.	177	100%	105%				.20	
			60 + 70 + 80	1 1/4 x 2	qtz-chl-py(ep) x 3	80										
80-90° Str.		190	60	3"	qtz-chl(ep) (py)(ep)	90	1.0	chl Partings	187	100%	102%				.20	
			70	1/2 + 1/6"	qtz-chl(ep) x 2	10										

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG Foliation Alteration	Vein L to Core Alt	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Feather Discont.	Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE				REMARKS	Sample Number	% Cu	% Mo
			80-90° Mod to Str.	200	80 60-80 70 50-60-70	14" 2" + 2 1/2" 2" 2" + 3" x 2	(qtz) chl - py - cp zone qtz - chl - ep qtz - chl - ep zone qtz - chl - ep (py) zone	0 10 20 30 40 50 60 70 80 90	1.0		197	114%	93%				.25	
			80-90° W.K.	210	40 80	2" 3"	qtz chl - ep (py) zone	0 10 20 30 40 50 60 70 80 90	.5		207	98%	87%				.05	
			60-90° W.K. Str.	217 220	70 5-70	2 1/2" 12" 2"	qtz (chl) vug - with fold qtz - chl - ep (py) zone qtz	0 10 20 30 40 50 60 70 80 90	.5		217	100%	99%				.05	
		CHLORITE		220	70	2 1/2"	qtz (chl) vug - with fold	0 10 20 30 40 50 60 70 80 90										
		EPIDOTE ZONE (217-250) - minor disseminated garnet in high chl bands. - mainly a banded alt zone with some b'n	80-90° Str.	220	80	8"	chl - garnet - py - cp	0 10 20 30 40 50 60 70 80 90			227	99%	85%				.10	
			80-90° Str.	240	80	70-80" 2"	chl - ep py - cp	0 10 20 30 40 50 60 70 80 90			237	95%	40%				.10	
			80-90° Str.	250				0 10 20 30 40 50 60 70 80 90			247	75%	30%					

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Vein L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE	SUPERGENE			Sample Number	% Cu	% Mo	Estimated Grade
CHLORITE-SERICITE - CARBONATE ZONE (250-278)			80-90° Str.	260	80x2 80x2 70	1/10 x 2 3"-2" 2"	chl-cpx chl-ser-py-cpx qtz-ser-cp Fine disse py-cp along folds mainly w/	0 10 20 30 40 50 60 70 80 90	1.0			106%	77%				.25	
at 262-276 ser+carb > chl and cren. increase + decrease in dissem. py-cp			80-90° Str. 264 264-278 Chl 0-90°	270	80x2 30 10-80 80	1 1/2 x 2 2" 2"	chl-py+ser-py chl-rich boards qtz-cp qtz-carb qtz-carb w/ disse py-cp	0 10 20 30 40 50 60 70 80 90	.5		qtz flooded ser. chl on partings on open.	100%	106%				.15	
			278	270	30x3 70	1 1/2 x 3	qtz-carb+3 dissem. py.	0 10 20 30 40 50 60 70 80 90	.5		No Coatings	98%	78%				.10	
278-300' Mainly Saurc Alt'd			90° Str.	280	20	1"	qtz-chl-py	0 10 20 30 40 50 60 70 80 90										
MINE PHASE QUARTZ DIORITE - coarse to med. Grained, greyish to a bright			V.W.K. { Var.	290	5" 5" 15-16" 16" 20" IZ 50" 80"	1/2 1/2 1/8 1/4-2" 1/8	qtz carb. chl carb-hem. qtz-carb-chl qtz-carb-chl. qtz-carb-chl. DK Alt'm - qtz-chl-py qtz-carb-chl	0 10 20 30 40 50 60 70 80 90			Most fractures are clear - a few hard chl.	97%	83%				.05	
light green saurc alt'd			V.W.K. { Var.	300	15" 70" 116" 140" 130" 110" 70"	1/4 1/8 1 1/2 2 1/2 1/4	qtz-cp-pied-carb. qtz-carb. qtz-chl-ep-carb-ep-py qtz-chl-ep-cpx qtz-chl-ep-carb-sphal-cp qtz-chl-py-cp qtz-chl-carb.	0 10 20 30 40 50 60 70 80 90			Most fractures are clear - a few hard chl. Sphal. abundant in vein.	100%	97%					
End of hole at 300'								0 10 20 30 40 50 60 70 80 90				93%						

M.R. Schaumburger
B.D. Bysant

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 83-2
SHEET No. 2 of 6

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Veins L to Core All	Width of Vein	Mineralisation	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Footage Blocks	Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE				SILPERGENE	REMARKS	Sample Number	% Cu
			45-50 Mod	60	30 45 45 70 50	1/8 1/2 1/2 1/4 6"	qtz-chl-ep qtz-chl-ep qtz-chl-ep qtz qtz-chl-ep (veg) ((cc))	0 10 20 30 40 50 60 70 80 90	.5		carb. hem. lim	55	100	93				.10
			50-60 Mod-Str.	70	10-20 x 3 15 90 45 50 50	hie x 3 1/10 2 1/2" 8" 1/8 10"	hem x 3 qtz-chl-py qtz-chl-ser-ep dark zone + qtz-ser-ep veins qtz-chl-py dark zone + qtz-carb-chl-ep	0 10 20 30 40 50 60 70 80 90	.5		carb hem	65	100	63				.20
			50-60 Mod	80	20 x 2 45 50	1/10 x 2 1/10 x 2 14"	hem-carb x 2 (+ pink stained core) qtz-chl-pyr qtz-chl-carb-py-ep zone	0 10 20 30 40 50 60 70 80 90	.5		carb hem	75.5	80	23				.15
		Fault Zone 75'-87'	60-70 Mod	90	5? 5-15? 5 x 2	4' 7' 1/2 x 2	zone of broken + ground core - hem(lim) stains qq-bx-hem hem-qq x 2	0 10 20 30 40 50 60 70 80 90	<.5		carb hem	81	30	22				.10
			50-60 Mod-Str.	100	45 60 5 35 40 50 60 30+50	1/4 1" 3/4 1" 2" 1/10 6" hie-1/10 x 2	qtz (@ rt L's to folia) qtz qtz with hem on walls qtz-chl-ep qtz-chl-ep-py-ep qtz-chl-py dark zone (py) qtz-chl-ep-py	0 10 20 30 40 50 60 70 80 90	.5			97	94	73				.15
			45-50 Mod.	110	20 30 50 45 55 60 5	12" 2" 1/4 1" 6" hie	dark zone + qtz-ep dark zone + qtz-chl-ep-py qtz-chl-ep qtz-chl-carb-ep qtz-chl-carb-ep qtz-chl-carb-ep Hem	0 10 20 30 40 50 60 70 80 90	.5			107	100	75				.40

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GIBRALTAR MINES LTD.

HOLE No. 83-2
SHEET No. 3 of 6

ROCK TYPES & ALTERATION			L to Core Feet/In	GRAPHIC LOG Alteration Footage SIXEIGHT	Veins L to Core All	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE			Supergene	REMARKS	Feet/In Block.	Sample Number
			60 Mod	120	40 10 30	1/10 3"	chl-ep. dark zone + (qtz-py-cp) dark zone + qtz-py-cp	0 10 20 30 40 50 60 70 80 90	.5		98	60				.15	
			30- 45 60 70 Mod Str.	130	80 70 80 80 40	1/2 2" 1/4 2" 1"	chl-py qtz-chl-py (cp) qtz-chl-ep-py qtz-chl-ep qtz-chl-py-ep qtz-chl-ep-py qtz-cp	0 10 20 30 40 50 60 70 80 90	.5		98	85				.12	
			60- 80 Wk- Str.	140	80 90 20	1/2 2"	qtz-chl (ser) carb-py zone qtz-chl-(cp) hem-carb	0 10 20 30 40 50 60 70 80 90	1.0		100	48				.10	
			45- 70 Wk Mod	150	50+65 15 70+45 55x2 15+30x2	2"x2 1/10 1/10x2 1/4x2 1/2x3	qtz-chl-ep (cp) py x2 chl-ep qtz-chl-ep x2 qtz-chl-carb-cp x2 hem x3	0 10 20 30 40 50 60 70 80 90	.5	carb-hem	145	72				.15	
			70- 80 Wk- Mod	160	70 80x2 70	6" 2 1/2"x2 1/2"	qtz-chl-ep-py qtz-chl-ep-cp x2 qtz-chl-ep-cp-py	0 10 20 30 40 50 60 70 80 90	<.5	minor carb-hem	155.5	90				.10	
			60- 80 Wk- Str.	170	50 60 80 80 60	14" 12" 2" 2" 25"	qtz-chl-ep (py) zone dark zone + (qtz-carb-py-cp) qtz-chl-py qtz (chl) (cp) qtz-chl-(py)(cp) zone	0 10 20 30 40 50 60 70 80 90	1.0		95	83				.20	

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GIBRALTAR MINES LTD.

HOLE No. 83-2
SHEET No. 5 of 6

ROCK TYPES & ALTERATION		L to Core Foliation	GRAPHIC LOG		Valve L to Core Alt	width of vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Footage Discard	Estimated Core Recovery %	R O D	ASSAY RESULTS			
			Leach Cap	LIM. ZONE						SULPERGENE	REMARKS				Sample Number	% Cu	% Mo	Estimated Grade
MINE PHASE Says Alt very weak to 245 (ie, dk phase cut off not distinct!) (230 - 275')		60-80 Wk. Mod	240	70 x 3 15 x 2	1/10 x 3 hlex	carb-hem x 3 hem x 2	0 10 20 30 40 50 60 70 80 90	2.5	hem chl-carb	237	94	55					.10	
		60-90 Wk. Mod	250	60 5 80 70-90 40+30 50 5+15	30" hlc 1/10 10" 1/2 + 1/6 1/2 1/2 x 2	banded qtz-chl-ep zone hem qtz-chl-py qtz-chl-py-ep gg-hem x 2 chl-ep carb-hem x 2	0 10 20 30 40 50 60 70 80 90	.5	hem-gg chl-carb	247	97	58					.15	
		90 Wk. Mod	260	70? 54+20 80 80 80	2" hlex 1/2 30" 8"	chl-carb-ep hem x 3 qtz-chl-carb-ep qtz-chl-ep (py) zone qtz-chl-ep zone bx-gg-hem	0 10 20 30 40 50 60 70 80 90	.5	carb-hem chl-carb chl-carb	253 256	80 99	66					.20	
Small fault (poss steep) re occurring sericite - horn. ser- carb says - wk		60-80 Mod	270	70 65 35 80 50	2" 8" 1/2 1/2 2"	chl-ep-carb-py-ep zone qtz-chl-ep-carb-py-ep zone gg-hem-carb carb-py(ep) chl-carb-ep	0 10 20 30 40 50 60 70 80 90	.5	hem-chl-carb	261 267	40 100	60					.15	
		60-90 Mod. Str.	275	30	hlc	hem	0 10 20 30 40 50 60 70 80 90	2.5	chl-carb	277	90	45					.10	
CARBONATE - SERICITE-CHLORITE		90 Cren. Str	280	10-90 (Cren.) 50 70 (mainly but Cren.)	24" 1/2 5'	qtz-chl-ser-carb-py-ep zone qtz-carb-py-ep qtz-ser-carb-chl-ep(py)	0 10 20 30 40 50 60 70 80 90	1.0	chl-ser-(carb)	287	99	68					.70	

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GIBRALTAR MINES LTD.

HOLE No. B3-2
SHEET No. 6 of 6

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG		Vains L to Core Axis	Width of Vain	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Feetage Block.	Estimated Core Recovery %	R O D	ASSAY RESULTS			
				Foliation Alteration	Feetage						Structure	LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu
			60-90 Med		70 60 80 80 40	12" 1/2" 1" 1/4" 1/4"		qtz-ser. carb. ep qtz-ser. ep qtz-ser. ep ch. ep qtz-chl. ser	0 10 20 30 40 50 60 70 80 90	.5			297	99	96				.40	
		FOH 307	90 Wk. Med		300 20 4 6	2"	chl-carb (qtz)	0 10 20 30 40 50 60 70 80 90	.5		hem-carb chl-carb	307	99	87				.10		
								0 10 20 30 40 50 60 70 80 90												
								0 10 20 30 40 50 60 70 80 90												
								0 10 20 30 40 50 60 70 80 90												
								0 10 20 30 40 50 60 70 80 90												
								0 10 20 30 40 50 60 70 80 90												
								0 10 20 30 40 50 60 70 80 90												

M.R. Schaubberger
J.O. Pyper

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GIBRALTAR MINES LTD.

HOLE No. 83-01
SHEET No. 1 of 7

LOCATION GIB. WEST-North Wall BEARING _____ LATITUDE 49.075.95 N CORE SIZE N.Q. Wireline LOGGED BY G.D.B. M.R.S.
DATE COLLECTED March 23, 1983 LENGTH 377' DEPARTURE 43,253.36 E SCALE OF LOG 1" = 10' DATE March 31, 1983
DATE COMPLETED March 25, 1983 DIP -90° ELEVATION 3,095.53' REMARKS _____

ROCK TYPES & ALTERATION		L to Core Foliation Alteration	GRAPHIC LOG	Veins L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Footlog Block.	Estimated Recovery	ASSAY RESULTS				Estimated Grade	
									LEACH CAP	LIM. ZONE			Supergene	% Cu	% Mo			
Cased to 32'																		
MINE PHASE QUARTZ DIORITE (32-228)		.40 Mod	32	5	1/8	qtz-chl-py-Mudz		<.5	~ 5' core lost	32	40%	20%						.05
Saus Altin hem staining to 49' - 25% qtz to 49' then 30-35% as large bluish xtal. Saus is light green		40 Mod. Str	40	20 x 2	1/20 x 2	qtz-chl (lim)		<.5	fracturing mainly along foln planes of shear zone - ~ 6-7' core lost	47	27%	7%						.05
		45 Mod Str.	50	10+30	1" + 1/2	qtz-chl-carb		<.5	~ 4' core lost	57	62%	10%						.05
		15 Mod.	60	20	1/10	qtz-chl		<.5	~ 3' core lost fracture coatings were ag. hem. carb lim	67	58%	18%						.05
			70	15	1/10	qtz-chl												
				5 x 4	1/10	hem x 4												
				60	12"	qtz-chl-ep zone												

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,577

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GIBRALTAR MINES LTD.

HOLE No. 83-01
SHEET No. 2 of 7

ROCK TYPES & ALTERATION		L to Core Foliation	GRAPHIC LOG	Values L to Core Ash	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Feetage Blacked	Estimated Core Recovery %	R O D	ASSAY RESULTS			
									LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu
		45-50 Str.	80	35 50x2 90x3 60 50 40x2	hlers 1/2+1/10 hlers 1/2 1/4 hlers	hem r2 qtz-chl-hem r2 hem r2 ep q-s-carb-chl hem r2	0 10 20 30 40 50 60 70 80 90	<.5		77	88%	65					.05
		45-50 Str.	90		24"	qq-bx	0 10 20 30 40 50 60 70 80 90	<.5	highly broken core ~ 4' core lost carb-hem-qq coatings	87	58%	7					.05
	Poss. Fault zone - steep fractures and numerous qz soret	50 Mod	100	7 2	4" 3"	qq qq	0 10 20 30 40 50 60 70 80 90	<.5	highly broken core qq-carb coatings	95	42%	5					.05
		70-60 Mod	110		2"	qtz-chl	0 10 20 30 40 50 60 70 80 90	<.5	60-80' frac. have chl (qq) coatings	101 107	80%	30					.05
	Fault Zone 116-122	70 Mod	120	5 50	1/10 1/10	qq qtz-chl-carb	0 10 20 30 40 50 60 70 80 90	<.5	highly broken core 117-122 qq-carb coatings	116	90%	20					.05
		60 Wk. Mod	130	50x 40x2 35	1/10 hlers 1/10x2 1/8	qq+r qq-ep-chl r2 qtz-chl	0 10 20 30 40 50 60 70 80 90	<.5	core qq coatings qq-carb coatings	122 127	50% 70%	48					.05

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GIBRALTAR MINES LTD.

HOLE No. 83-01
SHEET No. 4 of 7

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Yield L to Core Alt	Width of Yield	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS							
										LEACH CAP	LIM. ZONE			Sample Number	% Cu	% Mo	Estimated Grade				
alter zone - do not have sharp boundaries but they grade into massive zone into definite zones.	80 Wk	300	70	6"	qtz-chl-ep zone	0		<.5	highly broken core	197	65%	32%				.35					
			70	2"	qtz-chl (cp)(garn) - qz zone	10											20		30		40
	80 Wk	210	70	2"	chl-ep(py)	0		1.0%	chl - carb - Gg on Some fractures, most are open.	207	100%	100%				.30					
	80	3"	qtz-chl (cp)(garn) - py - ep zone	10		20											30		40		50
	80 Wk	220	80	2"	chl - py	0		<.5	chl - carb - Gg on some fractures; most are open.	217	100%	73%				.05					
	80	2"	qtz-chl (vug)	10		20											30		40		50
	ND + VERY Wk 15° fol.	230	45	1"	chl - carb.	0		<.5	chl or some fract; most are open.	227	100%	84%				.05					
	80	1"	chl - carb.	10		20											30		40		50
DARK ALTERATION ZONE (228-288)	80 with minor fold & con- str.	240	70-80	6'	qtz-chl-ep-garnet (py)(cp) zone	0		1.0%		237	86%	40%				.20					
Fault	30"		3'	qq+bx (12" solid qq)	10		20											30		40	
this zone is mineralogically similar to the smaller zones noted a carb - cp & py. lie along foln. planes and in massive veinlets - only the larger veinlets are noted.	80 minor fold & con- str	250	80	1"	chl - cp	0		1.0%	3.0% py - 11.7% ? chl - carb - Gg 93	247	96%	40%				.25					
	80	1"	chl - cp	10		20											30		40		50

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Veins L to Core Axis	WIDTH of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimate Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE			SUPERGENE	REMARKS	Sample Number	% Cu
DARK ALTERATION ZONE (226-288')			70 + Cren Str.	260	70 x 3	1/4 + 1/10"	cp	0 10 20 30 40 50 60 70 80 90	<.5		92%	30%					.15
This zone contains chl-qtz-ser-carb-ep-garnet in varying concentrations - crenulation appears to incr with sericite			80 + Cren Str	270	75	1/2	qq	0 10 20 30 40 50 60 70 80 90	<.5	chl-carb on fractures	257	90%	16%				.12
incr Ser-Carb			80 + Cren Str.	280	??	12"	qq	0 10 20 30 40 50 60 70 80 90	<.5	~ 1/2 of the core is in 2.2" dia. frags.	277	95%	0%				.10
289			Complex Cren - mainly 30° Str.	289	45	8"	qtz-cp (+ pulverized blk 1 mineral)	0 10 20 30 40 50 60 70 80 90	10%	ser. on fract.	287	75%	38%				.50
QUARTZ SERICITE PYRITE ZONE (288-304)			50-60 Str.	290	60+50 50x2	1/4 x 2 1/4 x 2	cp x 2 cp x 2	0 10 20 30 40 50 60 70 80 90	3%	Strong diss. Py.	297	98%	40%				.50
300				300	60-50 x 5 50 50 x 4 50 + 5 x 2 + 15	1/10 - 1/4 2" 1/8 x 4 1/4 + 1/8 + 2"	py x 5 qtz-py py x 4 carb-cp + qq x 2 + ser-cp	0 10 20 30 40 50 60 70 80 90		chl-ser on fract.	300	92%					
Fault Co? 304				310	50? x 3 40	1/4 x 3 2"	cp x 3 qtz-cp qq	0 10 20 30 40 50 60 70 80 90	1.0%	chl-ser-carb on fract.	307	60%	23%				.80
DARK ALTERATION ZONE (304-377) as above			Complex prot. Steep 20° 40°	310	40 25 15 80	2" 3" 1/8 1/8	qtz-ser-cp qtz-ser-cp ser-cp ser-cp	0 10 20 30 40 50 60 70 80 90			307	70%					

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GIBRALTAR MINES LTD.

HOLE No. 83-01
SHEET No. 6 of 7

ROCK TYPES & ALTERATION			L to Core Pelletite	GRAPHIC LOG	Veins L to Core Alt	Width of Vein	Mineralisation	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Footage Discard.	Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu
DARK ALTERATION ZONE (304-377')			60-80	320	5	3"	qz	0 I	1.0%		313	97%	20%					.20
					60x2	1/4 x 2	chl-py x 2	10										
			60? Mod	330	70? x 3	1/10 x 3	chl-cp x 3	0	1.0%		327	78%	4%					.25
					50	6"	qtz-ser-py-cp zone	10										
			70 Mod-Str.	340	70	1"	qtz-ser-carb-cp	0	1.0%		337	83%	27%					30
					60x3	1/10 x 3	chl-py x 3	10										
			70 Mod	350	70x3	1/10 x 3	chl-py-cp x 3	0	4.0%		347	75%	36%					.45
					60x2	1/10 x 2	chl-pyx 2	10										
			70-80 Str.	360	70	1/2	qz	0	2.0%		357	63%	42%					.45
					80	1/2	qtz-carb-cp	10										
			70-80 Str.	370	80-70 x 10	1/10 x 10	chl-py-cp x 10	0	2.0%		367	80%	98%					.40
					45	2"	qtz-ser-py-cp	10										
			70-80 Str.	370	70	1/2	qz-carb-cp-py	0	2.0%		367	80%	98%					.40
					80x5	1/10 x 5	qtz-chl-py-cp x 5	10										

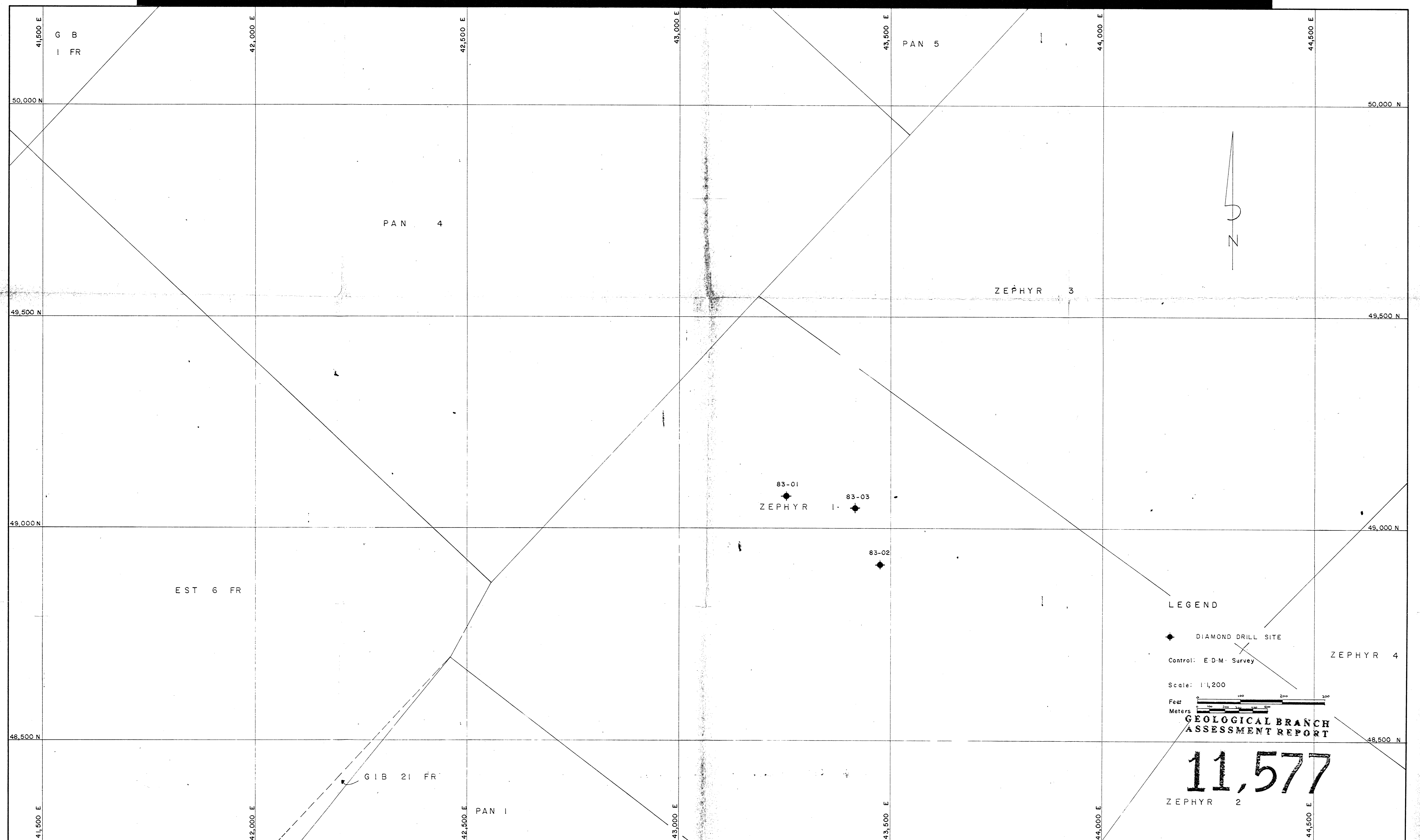
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GIBRALTAR MINES LTD.

HOLE No. 83-01
SHEET No. 7 of 7

ROCK TYPES & ALTERATION			L to Core Feet/Inch	GRAPHIC LOG	Vein L to Core Feet	WIDTH OF VEIN	MINERALIZATION	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Feet/Inch Direction	Estimated Core Recovery %	R O D	ASSAY RESULTS					
										LEACH CAP	LIM. ZONE	SUPERGENE				Sample Number	% Cu	% Mo		Estimated Grade	
			70 30 100	377	50-70 x 7 70 80-11 x 45 80-110 70 80	1/2 x 7 6" 1/2 x 1/2 x 1/2 3" 1/2 1/2	Cpx 7 qtz - ser. py (cp) zone Cpx 3 qtz - ch. cp ep ch. py	0 10 20 30 40 50 60 70 80 90 100	3.0%				377	100%	98%					.80	
																					E.O.H @ 377'

M.R. Schamberger
L.D. Bryant



LEGEND

- ◆ DIAMOND DRILL SITE
- Control: E D-M Survey

Scale: 1:1,200

Feet
Meters

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,577

ZEPHYR 2

DWN.	CHECK	APPR.	ISSUED FOR	DATE	REV.	DESCRIPTION	DWN.	CHECK	APPR.	ISSUED FOR	DATE	REV.	DESCRIPTION	REFERENCE	No.	DWG. No.	SCALE

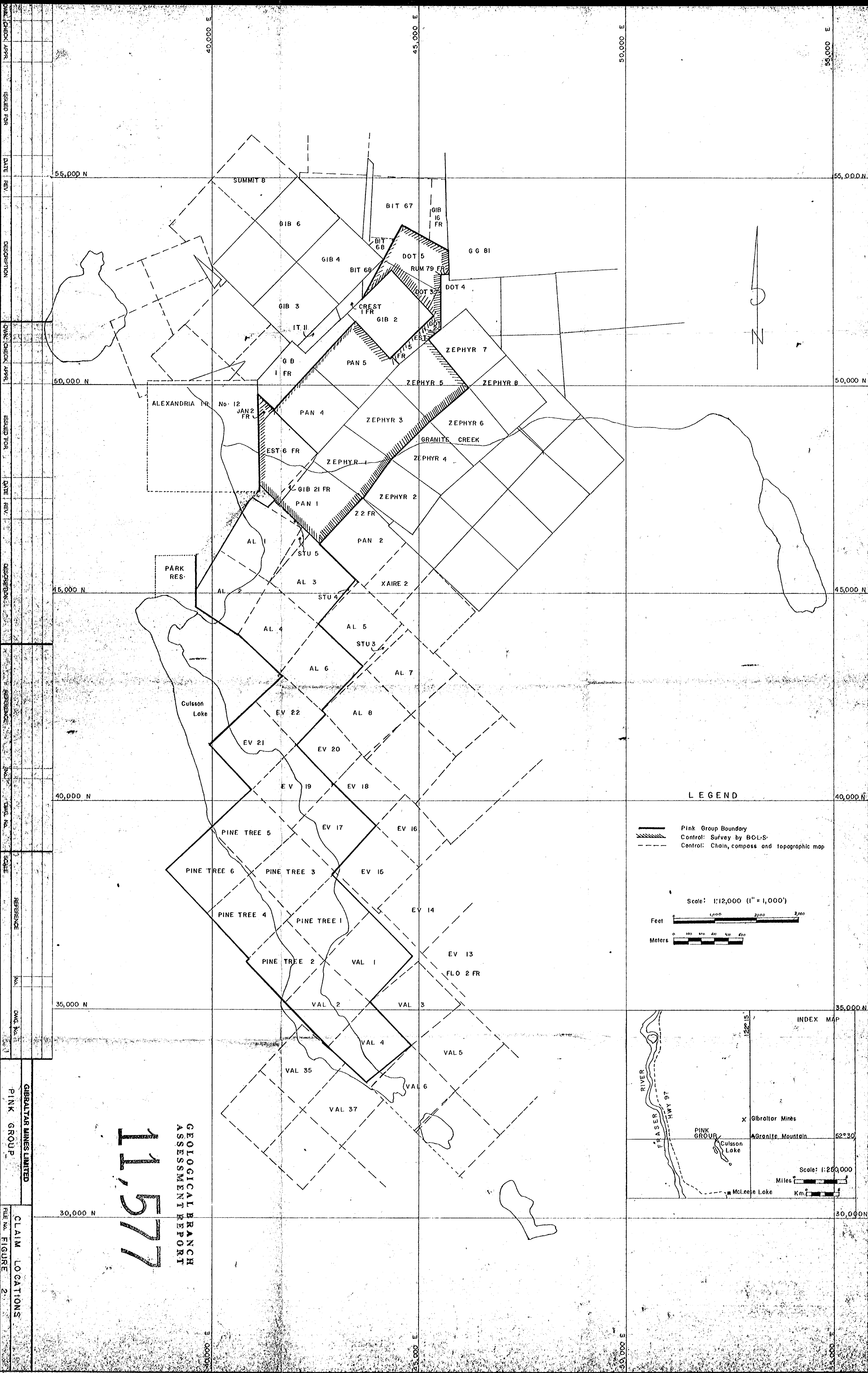
GIBRALTAR MINES LIMITED

PINK GROUP

DIAMOND DRILL HOLE LOCATIONS

FILE No. **FIGURE 3**

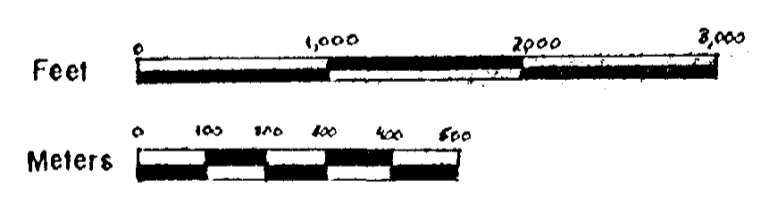
101-211-G.M.L.



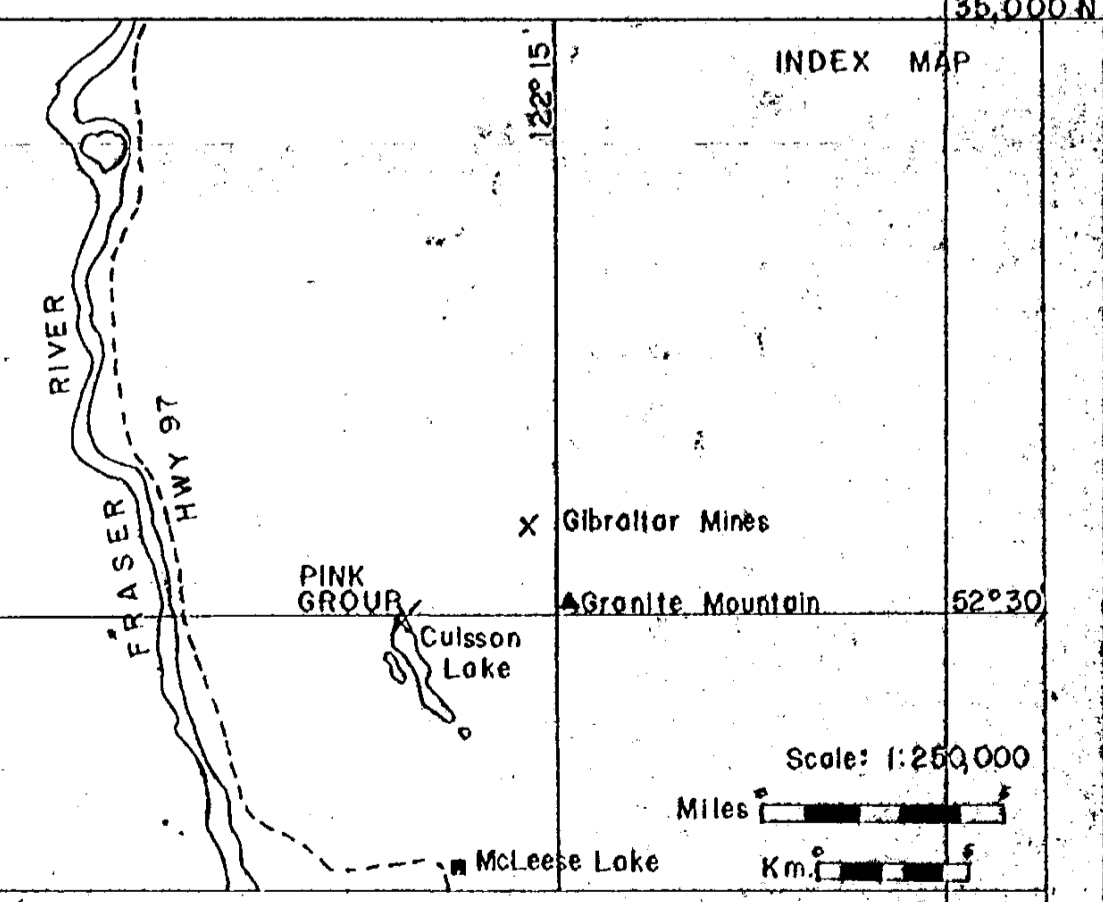
LEGEND

- Pink Group Boundary
- Control: Survey by B.O.L.S.
- Control: Chain, compass and topographic map

Scale: 1" = 12,000' (1" = 1,000')



INDEX MAP



ISSUED FOR: CLAIM LOCATIONS
DATE REV: 2
DESCRIPTION: PINK GROUP
DWA/CHECK APPR: GIBALTAR MINES LIMITED
ISSUED FOR: PINK GROUP
DATE REV: 2
DESCRIPTION: PINK GROUP
DWA/CHECK APPR: GIBALTAR MINES LIMITED
REFERENCE: No. 11,577
SCALE: 1:11,577
FILE NO. FIGURE: 2-1

11,577

GEOLOGICAL BRANCH
ASSESSMENT REPORT