DIAMOND DRILL REPORT

ON THE

CARIBOO MINING DIVISION

93 B 9

(LATITUDE 52° 35', LONGITUDE 122° 17')

OWNER AND OPERATOR

GIBRALTAR MINES LIMITED

McLEESE LAKE, B.C.

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
10,567
NO.

Author: G. D. Bysouth

Submitted: 8 June 1982

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FIGURES

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Figure 3	HY Group Diamond Drill Hole Location Map	(In Pocket)

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	Drill Log: Hole 82-27	(In Pocket)
	Drill Log: Hole 82-28	(In Pocket)

1.0 INTRODUCTION

The HY Group lies about one mile north of the Gibraltar Mines plant site at an elevation of 3,300 to 4,000 feet. Access is via a 4-wheel drive road which runs northerly from the plantsite. The general location of the group is shown in Figure 1.

This report covers a diamond drill program designed to test a low-order I.P. anomaly discovered in a survey done by Canex Aerial Exploration Limited in 1969. G & D Diamond Drilling was contracted during the period May 25 to June 6, 1982. Three N. Q. wireline diamond drill holes totalling 1,502 feet (457.8 m) were completed. Core is stored at Gibraltar mines plant site.

2.0 MINERAL CLAIMS

Mineral claims of the HY Group are shown in Figure 2. Pertinent information is tabulated below.

CLAIM NAME	RECORD #	UNITS	ANNIVERSARY DATE
ZE 1	458	20	July 22
ZE 3	3927	20	August 17
HY 5	1710	10	June 10
HY 9	1666	2	June 10
HY 10	1667	12	"
HY 11	1668	9	"
HY 12	1669	14	"
HY 13	1670	6	"
HY 20	3247	2	March 24

All claims belong to Gibraltar Mines Ltd.

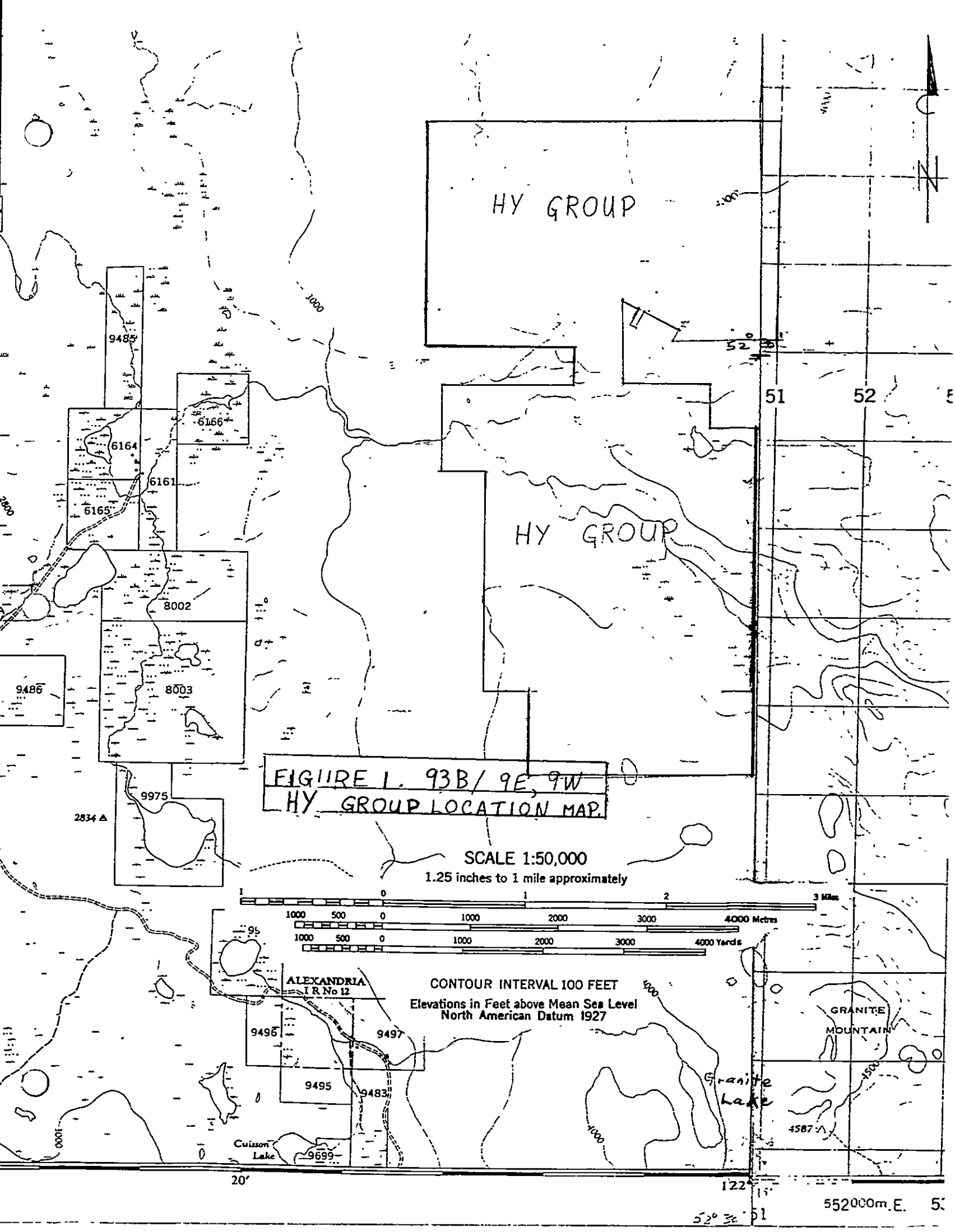

FIGURE 1. 93B/ 9E, 9W
HY GROUP LOCATION MAP.

3.0 DRILL PROGRAM

3.1 OBJECTIVES

The purpose of this drill program was to evaluate a low-order I.P. anomaly discovered here by a 1969 Canex Aerial Exploration Ltd. survey.

3.2 RESULTS

The drill locations are shown in Figure 3. Drill logs are included in the pocket of the report. The rock was not assayed due to its almost total lack of visible ore minerals.

Hole 82-26 was cased to 7 feet and drilled to 500 feet. It was drilled through "Granite Mountain Phase" Quartz Diorite, a medium to coarse - grained rock comprised of 45% quartz, 50% plagioclase and 5% mafics. No significant copper mineralization was noted and pyrite concentrations were low except for a narrow four foot zone between 140 and 144 feet where a quartz-sericite-pyrite zone and massive pyrite gave an estimated grade of 4% pyrite over ten feet.

Hole 82-27 was cased to 20 feet and drilled to 501 feet. This hole was also drilled in Granite Mountain Phase Quartz Diorite. A narrow zone of .20% copper (estimated) was intersected at 310 to 330 feet in a quartz-sericite-pyrite zone. Estimated pyrite concentration for this zone is 9%.

Hole 82-28 was cased to 4 feet and drilled to 501 feet. It showed similar results to the above mentioned holes. Copper concentrations were minimal while a three foot quartz-sericite-pyrite zone at 297 to 300 feet gave the only significant pyrite zone.

3.3 INTERPRETATION

No significant mineralization was intersected by this drill program. The low-order I.P. anomaly is possibly due to the quartz-sericite-pyrite zones noted above.

4.0 STATEMENT OF EXPENDITURES.

JUNE, 1982 DIAMOND DRILLING, HY GROUP

a) Site Preparation

TD 20 Bulldozer	May 25	9.0 hrs.		
	May 31	3.5 hrs.		
		12.5 hrs. @ $89.25/hr.		$ 1,115.63

b) Drilling Costs

Drilling:	82-26	500' @ $13.00/ft.	$6,500.00		
	82-27	501' @ $13.00/ft.	6,513.00		
	82-28	501' @ $13.00/ft.	6,513.00		
		1502'	$19,526.00	$19,526.00	
Cat Time:	D-6 Cat	22 hrs. @ $58.00/hr.		$1,276.00	
				$20,802.00	20,802.00

c) Vehicle Time

4x4 1980 Suburban	May 25-29	3 days		
	May 31-June 4	2 days		
		5 days @ $20.00/day		100.00

d) Miscellaneous Costs

78 coreboxes @ $4.90/box	382.20

e) Personnel Costs

Core Logging & Supervision

G. D. Bysouth	May 27-28	16 hrs.		
	May 31-June 1	16 hrs.		
	June 7-8	16 hrs.		
		48 hrs. @ $31.25/hr.	$1,500.00	

Field Work & Organizing

E. Oliver	May 25-29	13 hrs.		
	May 31-June 4	4 hrs.		
	June 7	2 hrs.		
		19 hrs. @ $20.00/hr.	380.00	
C. Johnston	May 25-29	7 hrs.		
	May 31-June 4	8 hrs.		
	June 7	2 hrs.		
		17 hrs. @ $15.00/hr.	255.00	
			$2,135.00	2,135.00

TOTAL DRILLING COSTS $24,534.83

5.0 CONCLUSIONS

Drill results show lack of ore minerals and indicate that the I.P. anomaly is due to a small pyrite-rich zone. There are no indications that further drilling will be required in this area.

SUBMITTED BY:

GIBRALTAR MINES LIMITED

Garry D. Bysouth
Senior Geologist

APPENDIX I

STATEMENT OF QUALIFICATION

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 and assessed the results.

Garry D. Bysouth

APPENDIX II

ABBREVIATIONS USED IN DRILL LOGS

alt^{n}	alteration
cal	calcite
carb	carbonate
chl	chlorite
cp	chalcopyrite
cren	crenulated
dissem	disseminated
dk	dark
ep	epidote
foln	foliation
gg	gouge
grn	grained
hem	hematite
incr	increase
lim	limonite
mal	malachite
mag	magnetite
mo	molybdenite
py	pyrite
Q. D.	quartz-diorite
QSP	quartz-sericite-py
qtz	quartz
rx	rock
ser	sericite
str	strong
stkwk	stockwork
v	very
w/	with
wk	weak

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-27
SHEET No. 1 of 9

LOCATION Tailings Pond | BEARING 0° | LATITUDE ~58,910 N. | CORE SIZE N.Q. Wireline | LOGGED BY G.D.B.
DATE COLLARED May 30, 1982 | LENGTH 501' | DEPARTURE ~51,415 E. | SCALE OF LOG 1"=10' | DATE May 31 - June 1, 1982
DATE COMPLETED June 2, 1982 | DIP -90° | ELEVATION ~4,035' | REMARKS

ROCK TYPES & ALTERATION							∠ to Core Foliation	GRAPHIC LOG: Foliation/Alteration	GRAPHIC LOG: Footage	GRAPHIC LOG: Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH 30 / SUP. DEPTH _____ REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
Etc.	Plag.	K-Spar.	Mafic	Texture	Hardness																		
						Casing To 20'			20							30							
45	45 pink		5 chl.	med-coarse	6-7	GRANITE MTN QUARTZ DIORITE (20-500') mainly a coarse	80 WK		30			1/8	qt3-MnO2+mal	0	WK lim to 30'	27	70	30					01
	spar often pink (K'spar?)					grn. rx with large (1/8"-1/4") ovoid graigs of qt3. in a finer grn. matrix of feldspar and chl.	80 Mod. Str.		40		80		zone of incr. chl-ser (40%) alth of spar - very wk diss. py and occasional cp blebs	>5		33	80	3				.05
																37	50						
																42	30						
						numerous zones of red staining (Chem.) alternating with weak sauss	80 WK		50			21'		>5			70	33					.05
						and dark alt'n.	70 Mod		60	30 x 5	80	2"	qt3-ser-py	0		52	80	60					01
												1/2 x 5	carb x5			59							

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GIBRALTAR MINES LTD.

HOLE No. 82-27
SHEET No. 2 of 9

OX. DEPTH ______
SUP. DEPTH ______

ROCK TYPES & ALTERATION	∠ to Core Foliation	Footage	Veins ∠ to Core	Width of Vein	Mineralization	ESTIMATED % PYRITE	REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	ASSAY RESULTS % Cu	% Mo	Estim. Grade
GRANITE MTN. Q.D. (20-50')	70 Mod	70	30 5x3	1/4 1/20x3	qtz-ser-carb-py (cp) chl x3	<.5		67	75	53				.05
mainly dk alt'n	70 wk	80	5 5x3	1" 1/20x3	qq chl-qq x3	0		73	50 75	13				.01
	80 wk	90	45 5x3	3" 1/20x3	qtz-ser-py (cp) chl-qq x3	<.5		83 89	50	30				.05
	80 wk	100	5x4	1/20-hle x4	chl-qq x4	0		97	83	47				.01
		110	45-80 60	7" 2"	qtz (carb) qtz	0		107	85	43				.01
dk alt'n		120	40 to 60 45 80	hle x2 1/10 1/10	chl x2 qtz-chl-py qtz-chl-py	<.5		111 116	30 50 40	20				.01

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GIBRALTAR MINES LTD.

HOLE 82-27
SHEET No. 3 of 9

Rock Types & Alteration	∠ to Core Foliation	Footage	Veins ∠ to Core	Width of Vein	Mineralization	Estimated % Pyrite	Remarks	Est. Cu
GRANITE MTN. Q.D. (20-501)	70 Mod	130	80 10 30 15+90x3 15	3" 1/4 1/2 hlex4 1/10	qtz-(chl)(ser)(py) qtz-(py) qtz-carb chl x4 chl(py	.5		.05
mainly dk phase	60 WK	140	70 30x3 70x2+20 50 5-15x4	12" hlex3 hlex3 2" hlex4	qtz-ser-py (massive) chl-py x3 chl x3 qtz-chl-carb chl x4	4 %		.08
	60 WK	150	15 60	hle hle	hem hem	0		.01
	60 Mod	160	60 5 70 70	1/20 1/10 1/10 1/10	carb-hem carb-hem qq-hem qq-hem	0		.01
	ND	170	90 90	1/2" 1"	qq-hem qq-hem	0		.01
	ND	18?	20+5 30x4 5	1/20x2 hle x4 hle	hem-qq x2 carb-hem x4 hem	0		.01

Footage Blocks	Estimated Core Recovery %	RQD	Sample Number	% Cu	% Mo
121–130	80	50			
130–137	65	63			
137–147	90	57			
147–151	60				
151–161	70	47			
161–171	85	63			
171–177	60	27			

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GIBRALTAR MINES LTD.

HOLE No. 82-27
SHEET No. 4 of 9

ROCK TYPES & ALTERATION: Oil.	Plag.	K-Spar.	Mafic	Texture	Hardness		GRAPHIC LOG: ∠ to Core Foliation	Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Blasts.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						GRANITE MTN. Q.D. (20'-501') hem + lim stained core	ND		190	5x3		hlex3	lim x2	0		187	75	27					.01
												.14"	qgtbx				50						
						From 170' to 501'	ND		200	5		hle	hem	0		193	90	30					.01
						the rx appears to have two feldspars — this is particularly evident in wk'ly saus zones where one spar is pale green while the other is either white, pale pink or reddish — granite composition ??	ND		210	40		6"	qg-bx	1.0%		203	80	23					.05
												16"	qtz-ser-py (massive)			209							
							ND		220	5x4		hlex4	hem x1	2.0%		211	55	17					.05
																217	50						
							ND		230	4x2		hlex2	hem x2	0		223	80	20					.01
																227	90						
							ND		240	5x2		1/8 hlex3	qtz-chl ((cp)) chl (py) x2	0		237	40	10					.01

GRID ______ GIBRALTAR MINES LTD. HOLE No. 82-27

Rock Types & Alteration (Qtz., Plag., K-Spar, Mafic, Texture, Hardness)	∠ to Core Foliation	Graphic Log (Footage)	Veins ∠ to Core Axis	Width of Vein	Mineralization	Estimated % Pyrite	Ox. Depth / Sup. Depth / Remarks	Footage Blocks	Estimated Core Recovery %	RQD	Sample Number	% Cu	% Mo		Estimated Grade
GRANITE MTN Q.D. (20-50¢)	70 WK	250	70	hle	chl.	0		241.5 247	45 55	20					01
	60 Mod	260	30 50+80	2" hle-1/20 x2	bx(qq) hem-chl(py) x2	<0.5		254.5	70 75	7					01
fine grn dk green	Nb? 60?	270	40	16"	chl zone (basic dyke?)	0	rock around this dyke	262.5 264.5 267 269.5	55 50 55	13					01
zones with >60 chl.	45 WK-Mod	280	40	12"	chl zone (basic dyke?)	0	appear silicified & bleached.	272 279	50 75	10					
	40 WK	290				0		283 288	70 80 60	27					
		300	20 30 50 50 x2 60	1/20 1/10 1/10 1/10 x2 1/8	chl(py) qq-hem qtz-chl((cp)) qtz-chl(py) x2 qtz((cp))	<0.5		291 292 296 300	40 60 70	3					

GRID ______ **GIBRALTAR MINES LTD.** HOLE No. 82-27 SHEET No. 6 of 9

ROCK TYPES & ALTERATION							∠ to Core Foliation	GRAPHIC LOG Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH ___ SUP. DEPTH ___ REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness																
						GRANITE MTN. Q.D. (20-50('))	45 WK to 5 Str.	310				.5				0					.01
							5-20 Str.	320	5-20°	12'	qtz-ser-py ((cp)) zone ~12" massive py	15 %	~4.5' core lost	313 318	.5	20					.25
							40 Str.	330	40	5'	qtz-ser-py ((cp)) zone	3 %		327	55	7					.15
							70 WK	340	60 40 5+80	1/20 hle hlexx	chl-(py) hem hemxx	<.5		336	65	27					.01
							70 WK	350	60	3"	qtz-ser-py	<.5		344 347	70 60	27					.01
								360	60 40 40	1/2 1/4 hle	qtz-ser-py qtz-py hem	.5		357	90	40					.01

GRID _____ GIBRALTAR MINES LTD. HOLE No. 83-37
SHEET No. 7 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
GRANITE HTN QD. (20-50')	70 Mod		370		45 ? 70	2" 8" 1/8	qt3-ser-carb((py)) bx(qq) qt3-py	.5		363	85 95	53					.01
	70 Mod		380		70 35 45	1" 1/20 1/20	qt3-ser (py) qt3-py py	.5		373	95	67					.01
	70 Mod		390		80x3+70 80+70 60 60 70	1/20x4 1"+1/4 1/20 1/10 2"	qt3-py x4 qt3-ser-py x2 qt3-py qt3-py qt3-ser-(py)	.5		383	98	40					.01
	5 to 60 Str.		400		80 80 60 5x2 5x2	12" 3" 1" 1/10x2 1/10x2	qt3 qt3-ep(hem) qt3 qq-hem x2 qq-hem x2	0		393	95	37					.01
	80-90 Str		410		20x2 40 80 40 80	hlex2 3" 36" 1" 1/10	chl-py x2 qt3(chl) qt3-ser-(py) zone qt3-ser-py(cp) qt3-chl-py	.5		403	80	47					.01
	70-80 Str.		420		80 60 90 80	1/20 1/20 1/2 hle	chl-py chl-py qt3 chl-py	.5		413		37.					.01

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HOLE No. 82-27
SHEET No. 8 of 9

ROCK TYPES & ALTERATION (Ox. / Plag. / K-Spar / Mafic / Texture / Hardness)	∠ to Core Foliation	GRAPHIC LOG (Foliation Alteration / Footage / Structure)	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimate Grade
GRANITE MTN QD (20-50%)	70-80 Str.	430	5 70	hle 1/10	hem qt3 (py)	<.5		423	90 / 95	77					.01
	60-70 Str	440	70 40 80 80	1/10 1" 1/4 5"	qt3-py qt3-cp qt3-chl qt3-cp-chl	<.5		433	95	77					.01
	70 Str	450	20 70 60	1/20 2" 5"	qt3-hem qt3-ser-py qt3-ser ((py))	< 5		443	95	60					.01
	70 wk	460	70 60 20 45x3	1/4 5" 1/8 1/10x3	qt3-py-cp (Mo) qt3-ser ((py)) qt3-cp-qq qt3-carb-qq x3	<.5		453	90	50					.16
deep reddish coloration (hem)	60 Nil	470	20x3 30 20	1/20x3 5" 1/10	qq x3 qt3-ser-py qt3-chl	2.0%		462	95	53					.01
	60 Mod	480	10	1/2	qt3-carb-hem	0		472.5		37					.01

GRID _____ GIBRALTAR MINES LTD. HOLE No. 82-27
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	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
		0	5+20	1/4+1"	qtz-carb-hem			483	98						
		40	40	1"	qtz-ser-(py)-hem	∠.5				63					01
		50	50	2"	qtz-ser-py-hem				95						
		490	40	1/20	hem										
			40	1/10	carb-qq,			493							
			45	hle	hem	0			95	60					01
			40	1/4	qtz										
		500													
E.O.H. 501'		501						501							

Gary O Bryan

GRID ____

GIBRALTAR MINES LTD.

HOLE No. 82-26
SHEET No. 1 of 9

LOCATION: Tailings Pond	BEARING: —	LATITUDE: 59,600 N	CORE SIZE: N.Q.W
DATE COLLARED: May 25, 1982	LENGTH: 500'	DEPARTURE: 50,950 E	SCALE OF LOG: 1" = 10'
DATE COMPLETED: May 30, 1982	DIP: -90°	ELEVATION: 4,050'	REMARKS:
LOGGED BY: G.D.B.	DATE: May 27-28, 1982		

OX. DEPTH: 0
SUP. DEPTH:

Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness	Rock Types & Alteration	∠ to Core Foliation	Foliation Alteration Footage Structure (Graphic Log)	Veins ∠ to Core Axis	Width of Vein	Mineralization	Estimated % Pyrite	Remarks	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
						Casing To 7'								7							
							No	10	0°	1/4	chl		No limonite		50	13					
45	50	?	5	hypid. gran.	6	GRANITE MTN. QUARTZ DIORITE (7' - 171') pale grey med. to coarse grn.	N3	20	30° 40° 30°	2" 1" 1"	qtz-chl qtz-chl. qtz-chl	0		13	95	47					.01
						rx. characterized by larger (1/8-3/8") ovoid qtz. grains in a finer grn matrix of spar and chlorite.	80 Mod-str sl Gren.	30	30° 40°	1" 1"	qtz-chl qtz-chl	0		21 27	90	47					.01
							60 wk	40		2"	qtz-chl-ep	0		37	95	63					.01
							50 wk? Mod	50	45 [illegible]	1½" blebs	qtz-chl-py((cp)) chl-hem xx	<.5		47	95	47					.05

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GRID _____ GIBRALTAR MINES LTD. HOLE No. B2-26 SHEET No. 2 of 9

ROCK TYPES & ALTERATION								GRAPHIC LOG										ASSAY RESULTS				
Oth.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	Foliation Alteration	Fracture Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OZ. DEPTH / SUP. DEPTH / REMARKS	Footage Discont.	Estimated Core Recovery %	RQD	Sample Number	% Cu	% Mo		Estimated Grade
						GRANITE MDU. QUARTZ DIORITE (7' - 171')	40 Mod		60				0		57	95	47					01
							50- Mod-Wk		70	30	1/10	chl-ep	0		67	95	67					01
							5-50 Mod		80	20 15x3 70	1/4 1/10x3 1/2	qtz-chl-ep chl x 3 qtz	0		77	95	43					01
						reddish coloration 80'- 135' -hem. staining? as an envelope around a vertical fault?	20 Mod		90	50 5	3" 5°??	qtz-ep (pied) qq-hem-chl-lox fault	0		87	95	53					01
							15 Str.		100	30x 5-10°	1/4x2 3"	qq+hem x2 qtz-ep	0		97	96	43					.01
							50- 80 Str. Cren		110	30 15 5x2	1/10 1/10 1/10x2	chl-hem qq-chl-hem qq-chl-hem x2	0		107	95	67					.01

ROCK TYPES & ALTERATION (Qtz. / Plag. / K-Spar / Mafic / Texture / Hardness)	∠ to Core Foliation	Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
GRANITE MTN. QUARTZ DIORITE (7'-171)	45-60 sl. str. Cren	120	35xz 80 90 60 7 50 5?	1/10xz 1" 1/2 2" 1/4 3/4 6"	qtz-ser(py)xz qtz qtz qtz-chl qtz-carb qtz-chl qtz	0		117	95	50					.01
	80 Mod-Str	130	70 5 70	14" 1" 2"	qtz-ser-py (cp) qtz qtz-ser-py	.5		127	90	27					.05
	80 Mod	140	80	3'	qtz-ser-chl-hem zone	0		137	95	63					.01
	70 Mod	150	45? 80?	3' 1'	qtz-ser-py-99 zone qtz-ser-hem ~3" mass. py	4.0%		144	85	47					.05
	70 Wk	160	40 80?	1/2 1"	qtz-ser-py qtz-ser-py	.5%		154 157	90 90	63					.01
	70 Wk	170	60 60	2" 2"	qtz-ser-py qtz-ser-py	<.5%		167	95	53					.01

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-26
SHEET No. 4 of 9

ROCK TYPES & ALTERATION (Oil. / Plag. / K-Spar. / Mafic / Texture / Hardness)		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	GRAPHIC LOG: Footage	GRAPHIC LOG: Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Diesel	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
	171 CHLORITE ZONE (171-191) Dk. Altn Phase incn chl to 30% except where noted - qtz appears as large ovoid grns in swirled chl-rich matrix	80 Str.		180	70		3'	finely diss py along foln planes; chl zone (~80% chl+carb) matic dyke?	.5		177	95	53		-			01
		70 Str		190				finely diss py along foln planes	.5		187	95	37					.01
	191 GRANITIC MTN. PHASE (191'-500') (Seus. Altn) dk zone	60 Mod		200					0		197	85	53					.01
		60 Mod		210	60		1/16	qtz-chl	0		207	95	53					.01
		45 Wk		220	70		1"	qtz-chl	0		217	95	53					.01
		40 Wk		230	80		2"	qtz-chl	0		227	95	73					.01

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 82-26
SHEET No. 5 of 9

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	ESTIMATED % PYRITE	OX. DEPTH ___ SUP. DEPTH ___ REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
						GRANITE MTN QUARTZ DIORITE (191 - 506') wk saus alt'n	20 wk		240		35 35	12" 1" 1"	qtz-ser-chl (mag) w blk chl qtz qtz	0		237	95	47					.01
						(230-241)	20 wk		250		20	hle	white qq'y core	0		246 250	85 80	17					.01
							80 wk		260		10 15 5 5	2" 1/4 1/10 1/10	qq qq qq-hem qq hem	0		257 261	80 80	27					.01
							80 wk		270		5 30	hle 1/4 12"	hem qtz-carb-hem qq-hem	0			85	30					.01
							80 wk		280		20 to 25	hle x2	hem x2	0		277		63					.01
									290		80 x2 ?	1/10 x2 3"	qq-hem x2 qtz	0		287	90	30					.01

GRID _____ GIBRALTAR MINES LTD. HOLE No. 82-26 SHEET No. 6 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG Foliation Alteration Footage Structure	Veins ∠ to Core	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Discr.	Estimated Core Recovery %	R Q D	ASSAY RESULTS Sample Number	% Cu	% Mo		Estim Cpy
GRANITE MTN QUARTZ DIORITE (191-500)	ND	300	5 5	3' 2½'	qt3-ser-py qt3(chl)	0	~5' core missing	297	40	17					.01
	ND	310	5+20x2	12" 6" hlex3	qt3-gy(Mo) qt3 hemx3	0		307	85	37					.01
patches + blebs of hem	ND	320	5x3 20	hlex3 2' 2"	hemx3 qt3-chl qt3-chl-ser-py ((Mo))	•		315	90 85	40					.01
	60 WK	330	60 90 80 20 70x2	2" ¼ 2" 1"x2 ¼+1"	qt3-chl qt3-chl qt3-chl qt3 qt3-chlx2	0		325	75	40					.01
	60 WK	340	90 90	2" 2"	qt3-chl qt3-chl	•		334	90	67					.01
	ND	350	80 80x2+70 5	2" 2"+3"+2½ 1"	qt3-ser (py) qt3x3 qt3-chl(veg)	0		344.5	90	40					.01
			80	2"	qt3										

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-26
SHEET No. 7 of 9

ROCK TYPES & ALTERATION (Oli. / Plag. / K-Spar. / Matrix / Texture / Hardness)	∠ to Core / Foliation	GRAPHIC LOG: Foliation/Alteration	Footage	Structures	Veins ∠ to Core	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Diacs.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
GRANITE MTN. QUARTZ DIORITE (191'-500')	ND		360	40 60 20+5 80	½ 2" hlex2 1"	qt3-chl qt3-chl-carb-ep hem qt3-chl	0		354.5	90	67					.01
strong hem staining in blebs and patches (370-450)	ND		370	80 70x3 80	¼ 1"x3 12"	qt3-carb-py qt3-ep x3 qt3-ep (chl)-hem	0		365	80 65	23					.01
	ND		380	5+80 60 70 5 80	¼ x2 1" 2" ½ 12"	qt3-chl-hem x2 qt3-chl (py) qt3-ep-hem qt3-chl (vug) qt3-chl-carb zone	0		371	90	77					.01
	ND		390	90 40 35x2	12" ½ ½ x2	qq-bx carb carb xx	0		381	95	57					.01
	ND		400	60 25 x2 90	½ ½+½ 8"	qt3-chl qt3-chl x2 qt3-chl-hem	0		391	95	73					.01
	ND		410	45 80 50 80+60	1" 3" 1" ½ x2	qt3-chl (py) qt3-ser (py) qt3-chl qt3-carb xx	0		401	80	53					.01

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GIBRALTAR MINES LTD.

HOLE No. 82-26
SHEET No. 8 of 9

Ol.	Plag.	K-Spar	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Intervals	Estimated Core Recovery %	RQD	Sample Number	% Cu	% Mo		Estimated Grade
																411							
						GRANITE MTN. QUARTZ DIORITE (191-500')					30	14"	qtz										
											40+45x2	hlex3	hemx3	0			70	43					.01
									420			24"	bx(qq)			420							
											30	2"	qtz-carb	0			65	30					.01
																427							
						qtz(ser) qlt'n			430			12"	qtz-ser((py))				40						
																432							
											35+80	1/4+1/2	qtz-chl x2	•				50					.01
											20x2	1/4	qtz-chl x2				90						
									440							442							
											40x2	2"+1/2	qtz-hem x2										
												14"	qtz-chl-ser-hem	0			90	13					.01
																447							
									450			4'	qtz-chl-carb-qq-bx 3orc				80						
							45 wk							0		457		47					.01
									460		45	1/4x2	qtzx2										
											4?	13"	QFP				98						
											40	3"	QFP										
											60	4"	QFP	0		467		53					.01
											45	3'	QFP										
									471		?x2	hlex2	hemx2										

GRID ______

GIBRALTAR MINES LTD.

ROCK TYPES & ALTERATION: Ox.	Plag.	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	Foliation Alteration	GRAPHIC LOG: Footage	Structure	Veins ∠ to Core	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH ___ SUP. DEPTH ___ REMARKS	Footage Drilled	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estim. Grade
						GRANITE MTN. QUARTZ DIORITE (191'-500')	60 wk		480		50?	3'	qtz-porp.			477 480	85 90	47					
						red hem	70 wk		490							487	98	77					
						E.O.H. 500'	70 wk		500		80 60 90	2½ ¼ hle	qtz-ep-hem qtz-chl-carb hem			497 500	98 95	87					

Gary D. Bysouth

GRID ___

GIBRALTAR MINES LTD.

HOLE No. 82-28
SHEET No. 1 of 9

LOCATION: Tailings Pond
DATE COLLARED: June 2, 1982
DATE COMPLETED: June 6, 1982
BEARING: -0-
LENGTH: 501'
DIP: -90°
LATITUDE: ~ 50,770 N
DEPARTURE: ~ 60,420 N
ELEVATION: ~ 4,005'
CORE SIZE: N.Q. Wireline
SCALE OF LOG: 1" = 10'
REMARKS:
LOGGED BY: G.D.B.
DATE: June 7-8

Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
						Cased to 4'		0			O.B.			4							
						GRANITE MTN. QUARTZ DIORITE	60 Mod	10							90%	20%					
45	45 mainly saus plag	?	5-10 chl.			(4' - 501') med-grn. to coarse grn pale green rx with large ovoid qtz	70 Mod	20	50 30 20 50-80x3 20x2 80 5+80	1/10 hle 1/20 hlex3 1/4x2 10" hlex2	qtz-lim qtz-lim qtz-lim lim x3 qtz-ser-(py)-lim x2 qtz-ser-py-lim lim x2	<.5		17		23%					01
						grains in a finer grn. matrix of Saus. spar and chl.	60-70 Mod	30	60+50	hlex2	lim x2	<.5		27	95%	43%					01
							60-mod to 70 wk	40	20 60 80	hle 1/10 1"	lim qtz-py qtz	<.5		37	95%	40%					01
							60 Mod	50	60+50 x2 20	lim x2 hle	hlex2 qtz-chl-py	<.5		43 48	85% 95%	57%					01

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GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-28
SHEET No. 2 of _____

OX. DEPTH _____
SUP. DEPTH _____

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Matic	Texture	Hardness		∠ to Core: Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	REMARKS	Footage Blasted	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							70-80 wk-mod		60		20	hle	chl-py	<.5		57	95%	57%					01
											20	1/2	qtz-py										
											45	1/10	chl-ep-py										
							70-80 wk		70					0		67	98%	73%					.01
							50-70 Mod-Str		80		45	1/10	qtz-ep	0		77	90%	73%					.01
											60	1/8	qtz-carb										
							red-hem staining mainly on chl & spar & fractures																
							50 Str.		90		90	1/10	qtz-chl	0		87	90%	60%					01
											70	2"	qtz-chl										
											60	1"	qtz										
											5	hle	hem										
											45	4"	qtz										
							dk zone		100		5	1/10	99	<.5		97	95%	47%					01
							80 WK-				5	1/4-1/2	qtz-chl-ep										
											70x3	1/2 x3	qtz-chl-py x3										
											15	1/20	qtz-chl-py										
											45x3	1/20 x3	qtz-chl-py										
							dk zone		110		5	2"	qtz-chl	<.5		107	95%	80%					01
							80 WK				5-15x3	hle x3	chl-py x3										
											60	1/10	qtz-chl-py										

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 82-28
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	ESTIMATED % PYRITE	OX. DEPTH ____ SUP. DEPTH ____ REMARKS	Footage Boxes	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
hem staining	80 wk- 70 Mod		120		50 45 45 45	1/10 20" 8" hle	qtz-mag chl zone } basic dyke chl zone } chl py	<.5		117	95%	53%					.01
	60 wk		130		45 5x2 20	1/10 1/10x2 1/10	qtz-chl-ep-py qtz-cp-gg x2 qtz-ep	<.5		127	75%	47%					.01
	50 wk		140		45x2 40	1/10x 2"	chl x2 qtz-chl-ep	0		137	98%	53%					.01
	60 wk		150		45 15 45	1/2 1/10 1/2-1	qtz qtz qtz-chl	0		147	75%	67%					.01
hem staining	60 wk		160		50	1/10	qq	0		157	98%	73%					.01
	60 wk		170		48	1/8	qtz-cp	0		167	98%	87%					.01

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 82-28
SHEET No. 1 of 9

ROCK TYPES & ALTERATION: Ol.	Plag.	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Estimated % Pyrite	OX. DEPTH ______ SUP. DEPTH ______ REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimate Grade
							60 wk		180		70 60x2	2" 1/8x2	q+3-ser-py q+3-chl-ep	.5		177	95%	[illegible]					[illegible]
							60 Mod-wk		190		20 30 60 40+10	h'c 1/8 3" 1/8x2	hem q+3 q+3-ser-py q+3-chl-ep	.5		187	95%	8%					.01
							60 wk-Mod		200		35	1/2	q+3(cp)(Mo)	0		197	95%	77%					.02
							60 wk		210		45 70	1/5 2"	q+2 q+3-ep	0		207	98%	83%					.01
							60 wk		220					0			50%	7%					.01
							60 wk		230		70	1/2c	q+3-c..	0		227		43%					.01

GRID______

GIBRALTAR MINES LTD.

ROCK TYPES & ALTERATION (Oli. / Plag. / K-Spar. / Mafic / Texture / Hardness)	∠ to Core Foliation	GRAPHIC LOG (Foliation Alteration / Footage / Structure)	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH ____ SUP. DEPTH ____ REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
	60 wk-Mod	240	30+80+20 60°	1/20-1/10 x3 12"	qtz-chl-py x3 qq	< 0.5		237	90%	50%					01
hem staining	60 wk-Mod	250	45 40 40	1/10 3" 2"	qtz-chl-ep qq qq	0		243	90% 55%	37%					03
	60 wk	260	40 60	1/1 1/4	qtz-chl qtz	0		253	80%	73%					01
	60 wk	270				0		263	95%	27%					01
	60 wk	280	30	1/2	qtz-chl	0		273	90%	43%					01
	60-80 wk	290	40 80 80	1/10 12" 1"	qtz-chl-ep qtz-chl-ep zone ep	0		283 289	50%	57%					01

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 92-28
SHEET No. 6 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	Graphic Log: Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	Estimated % Pyrite	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
hem staining	ND	300	? 30 ?	3'	qtz-ser-py-hem	1%		297	70%	53%					01
	ND	310	5 + 50	1/2 + 1/4	qtz-chl-ep x2	0		307	85%	63%					01
	ND	320	40 + 45 15 50 x2	hle + 1/10 hle hle x2	qtz-chl-py x2 chl-qq-hem hem x2	<0.5		317	95%	[illegible]					01
hem staining	50 wk	330	40 x2	1/2 x2	qtz-chl-py x2	<0.5		327	80%	[illegible]					01
	50 wk	340	60 x2	1/10 x2	chl-ep x2	0		337	95%	83%					.01
	30-50 wk-str	350	40 x3 30	1/20 x3 20"	qtz-ser-py x3 qtz-ser-py	.5		347	90%	67%					01

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-28
SHEET No. 7 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG Foliation Alteration	GRAPHIC LOG Footage	GRAPHIC LOG Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimate Grade
	40 wk-mod		360		20 5 2"	½ hlc	qt3-chl. hem qt3-chl-ep-(py)	<.5		357	98%	47%					01
	50 wk		370		5 15x2	1" hlex2	qt3-chl hemx2	0		367	98%	53%					01
wk hem staining intense hem. staining - spar almost replaced by	45 wk		380					0		377	90%	60%					01
red hem mod-wk hem staing intense hem. staining	45 wk		390		15 40 5 ? 70	½ 2" ¼ 6"	qt3-carb qq-bx qq-carb qq	0		387	98%	37%					.01
	45 wk		400		70 80	3" ¾	qq qt3-chl.	0		397	90%	43%					.01
			410		50 50 ? 50 50 5x3 40x2	½ 2" 1" ½ hlex3 ½ex2	qt3 qt3-chl. qt3 qt3 chlx3 qt3-chl-pyx2	<.5		407	90%	83%					.01

GRID _____ GIBRALTAR MINES LTD. HOLE No. 82-28 SHEET No. 8 of 9

ROCK TYPES & ALTERATION (Oil. / Plag. / K-Spar. / Matrix / Texture / Hardness)	∠ to Core Foliation	GRAPHIC LOG Foliation Alteration Footage Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
zone of intense fracturing "healed" by qt3-ep veinlets (hlc-Vso)	15 str.	420	50	1/10	qt3-py										
			40	1/8	qt3-chl-ser-py	<.5			98%	87%		-			.01
			20	2½"	qt3-ep			417							
	45 Str	430	45	1/10	qt3				95%						
			60	2"	qt3-ep	<.5				60%					01
			35	1/10	qt3-chl-py			427							
			45	2"	qt3-ser-py										
			60	1/4	qt3-ser-carb										
	50 wk	440	10	1/2	qt3-ser-chl-py				98%						
			45 + 80	1" + 1/4	qt3-chl x2	<.5				57%					.01
			70	2"	qt3-chl.			437							
	50 wk	450	50	2"	qt3-chl (+1" ep halo")				95%						
			45	6"	qt3-ep	0				73%					.01
			70	6"	qt3-ep			447							
			70	5"	qt3-ep										
	ND	460	40	2"	qt3-chl				98%						
			70	2"	qt3-ep										
			80	3"	qt3-chl-ep										
			80	3/8	qt3-chl					67%					.01
			80x2	1"+2"+½"	qt3-ep	0		457							
			80	2"	qt3-chl-										
			70	2"	qt3-chl										
			70	1½"	qt3 x2										
	ND	470	80	1"	qt3-chl				90%						
			70	5"	qt3-ep										
			set 80	¼ x2	qt3-chl x2					20%					
hem. staining	80 Str		50?	½	qt3			467							
			10x2	hlc x2	hem x2										

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-28
SHEET No. 9 of 9

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG Foliation Alteration	Footage	Structure	Vein ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Blasts.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
hem. staining	80-60 str-Mod				80	≈4"	qtz-chl-ep ((py)) zone										
					5	hle	hem				95%						
					5 x2	hle x2	hem x2	<2.5									.01
					45	1"	qtz-carb			477		53%					
			480														
hem staining	80 Wk-Mod				5	hle	hem.				90%						
					5	hle	hem	0		487		57%					.01
			490														
	80 Wk-Mod				50	1"	qtz-chl-ep	0			98%						
					45 x3	½ x3	qtz-chl-ep x2			497		93%					.01
			500														
			501		40	hle	hem			501	95%						
E.O.H. @ 501'																	
Gary O. Bysouth																	


MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
10,567
DIAMOND DRILL HOLE LOCATIONS
HY GROUP
LEGEND
DIAMOND DRILL SITE
Control: Compass and Chain
Scale:
Feet
400
800
Meters
100
200
Hy3
Hy5
82-28
82-26
82-27
W.L. ± 3418
FINGER DRAIN
46 000 E
48 000 E
50 000 E
52 000 E
54 000 E
56 000 E
58 000 E
60 000 E
62 000 E
63 000 E
72 000 N
70 000 N
68 000 N
66 000 N
64 000 N
62 000 N
60 000 N
59 500 N
in October 1979 by
YING & ENGINEERING LTD.
phy flown on June 29, 1979 at an approximate
REF. NO. 06623-4
LEGEND
Horiz. control
Photo centre
Roads
Building
Shoreline
Creeks
Contours
Spot elev.
Piles
Poles
Culverts
Tree lines
Swamp
ISSUED TO
REVISIONS
No.
By
Description
Drawn
Traced
Approved
Scale 1 inch = 400 feet
Date
Checked
GIBRALTAR MINES LTD
Title
TAILINGS POND
Drawing No.
File No. FIGURE 3

80,000 N
75,000 N
70,000 N
65,000 N
60,000 N
55,000 N
60,000 E
55,000 E
50,000 E
45,000 E

N

INDEX MAP
Scale 1:250,000
Miles
Km
HY GROUP
Gibraltar Mines
Granite Mountain
McLeese Lake
Carston Lake
HWY 97
FRASER RIVER

LEGEND
Hy Grid Boundary
Control (hain, compass and topographic map, claim perimeter
Claim units
Diamond drill hole
Scale 1:12,000 (1"=1,000')
Feet
Meters

Z E 2
Z E 1
Z E 3
HY 13
HY 12
HY 20
HY 10
HY 9
HY 8
HY 3
HY 5
MAG GROUP
HY GROUP
82-28
82-26
82-27
POT HOLE LAKE
PLANT SITE
SEWAGE LAGOON
MAIN ACCESS ROAD

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
10,567
NO.

DWN.	CHECK	APPR.	ISSUED FOR	DATE	REV.	DESCRIPTION
G.D.B.				09/06/81		
M.R.S.				07/04/82		

DWN.	CHECK	APPR.	ISSUED FOR	DATE	REV.	DESCRIPTION

REFERENCE	No.	DWG. No.

REFERENCE	No.	DWG. No.
SCALE 1" = 1,000'		

GIBRALTAR MINES LIMITED

HY GROUP

CLAIM BOUNDARIES AND DIAMOND DRILL HOLE LOCATIONS

FILE No. FIGURE 2

NSI 211 G.M.1