DIAMOND DRILL REPORT
ON THE
SAWMILL GROUP

CARIBOO MINING DIVISION
93 B 8

(Latitude 52° 30', Longitude 122° 15')

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

Author: G. D. Bysouth

Submitted: 28 June 1982

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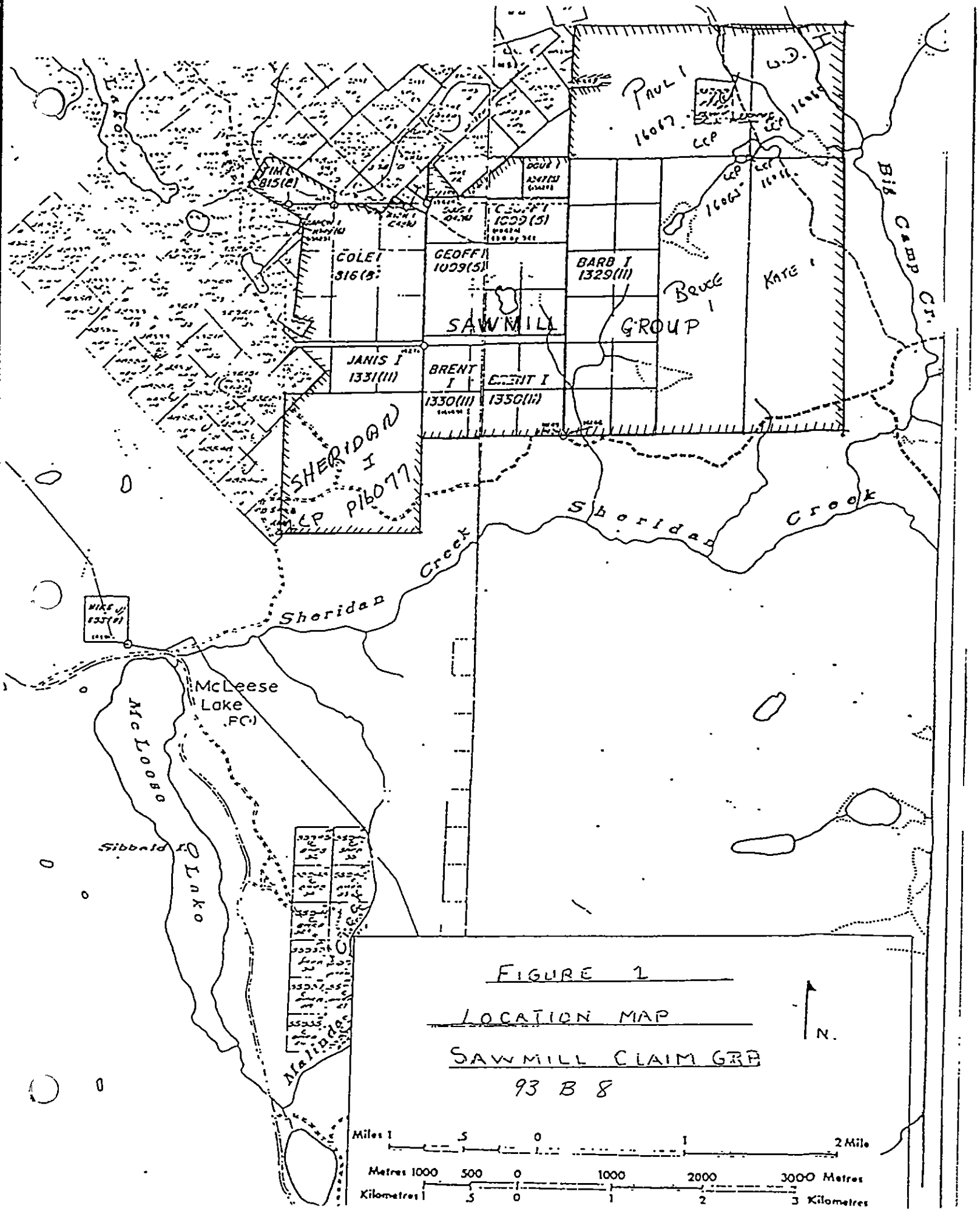
1.0 INTRODUCTION

The Sawmill Group lies approximately 4 miles (6.44 km.) south of the Gibraltar Mines concentrator, along the southern flank of Granite Mtn. at approximately the 3500 - foot elevation. Access is via an old logging road which links the claims to the Gibraltar Mines road on the west. General location of the claim group is shown in Figure 1.

The claims are underlain by a schistose suite of metamorphic rocks which appear to represent an original sequence of andesitic to dacitic volanics and volcanoclastic sediments containing minor lenses of silty limestone and graphitic shale. These rocks have been tentatively correlated with the Permian Cache Creek Group. Northward, towards the Gibraltar ore deposits, they increase in grain size and grade into a complex suite of dioritic rocks containing minor lenses of scarn and mica-schist. Over 90-percent of the area is covered by overburden which is probably several hundred feet deep in the major valleys but relatively thin at higher elevations.

The Sawmill Group covers the old Iron Mtn. property and the recently discovered sulfide zone on the Cole claim. Work on Iron Mtn. began in 1925 and has extended, on an intermittent basis, to the present. Chief focus of activity has been discontinuous zones of epidote-chlorite-garnet scarn containing magnetite-chalcopyrite mineralization. The Cole sulfide zone was discovered in 1979 by Gibraltar Mines during the diamond drill exploration of a large I. P. zone, originally outlined


PAUL 1
16067
CCP
G.D.
BIG CAMP CR.
TIM 1
815(6)
COLE 1
316(5)
GEOFF 1
1009(5)
BARB 1
1329(11)
BRUCE 1
KATE 1
SAWMILL GROUP
JANIS 1
1331(11)
BRENT 1
1330(11)
1350(11)
SHERIDAN 1
LCP P16077
Sheridan Creek
McLeese Lake
McLOOBO
Sibbald Lake
Malinda
FIGURE 1
LOCATION MAP
SAWMILL CLAIM GRP
93 B 8
N.
Miles 1 5 0 1 2 Miles
Metres 1000 500 0 1000 2000 3000 Metres
Kilometres 1 .5 0 1 2 3 Kilometres

in 1967. Subsequent drilling in 1980 revealed extensive but low grade concentrations of chalcopyrite-molybdenite mineralization. In late 1981, a I. P. survey was completed southeast of the 1967 survey and two anomalous zones were outlined. One anomaly corresponds with the original Iron Mtn. scarn zone and the other lies on low ground to the south. The above work is documented in Minister of Mines Reports and various assessment work reports. A list of references is provided with the report.

This report covers a diamond drill program aimed at evaluating the two 1981 I. P. anomalies and providing further grade definition within the Cole sulfide zone. Five vertical N. Q. diamond drill holes, totalling 2640 feet were completed during the period April 26 to May 5, 1982. G & D Diamond Drilling was the contractor. Core is stored at the Gibraltar Mines plant site.

2.0 MINERAL CLAIMS

The mineral claims of the Sawmill Group are shown in Figure 2. Information on these claims is tabulated below.

CLAIM NAME	RECORD NO.	No. OF UNITS	ANNIVERSARY DATE
Tim I	815	2	28 Aug 78
Cole I	816	9	28 Aug 78
Geoff I	1009	9	29 May 79
Ryan I	1048	1	26 July 79
Aaron I	1049	1	26 July 79
Doug I	1047	3	26 July 79
Brent I	1330	6	14 Nov 79
Barb I	1329	12	14 Nov 79
Janis I	1331	3	14 Nov 79
Kate I	3799	12	29 June 81
WD I	3800	6	29 June 81
Bruce I	3801	12	29 June 81
Paul I	3802	12	29 June 81
Sheridan I	4068	9	15 Sept 81

3.0 DRILL PROGRAM

3.1 OBJECTIVES

Drill holes 82-21, 82-22 and 82-23 were designed to test the eastern half of the Cole claim I. P. anomaly. Drill hole 82-24 was designed to test the Iron Mtn. I. P. anomaly while hole 82-25 was to test the anomaly to the south.

3.2 RESULTS

The drill hole locations are shown in Figure 2. In all holes, oxide and supergene effects appear negligible. Drilling conditions for holes 82-21, 82-22 and 82-23 were considered very good with core recoveries averaging over 90%. Blocky ground was experienced in holes 82-24 and 82-25. All copper valves reported here and in the logs are for total copper, all pyrite concentrations are visual estimates and all molybdenum valves are for MoS_2. Holes 82-21, 82-24 and 82-25 appeared essentially barren and were not assayed.

Hole 82-21 was cased to 11.6 feet. A medium grained bleached diorite was intersected from 11.6 to 237 - feet and a metasedimentary unit was intersected from 237 - feet to the end of the hole at 426 feet. Sulfide concentrations were negligible. Tiny vugs containing bornite and chalcopyrite were noticed between 360 and 370 - feet. An unusually large concentration of pink epidote (piedmontite) was noted in the diorite unit, associated with quartz veins.

Hole 82-22 was cased to 67 feet. A meta-andesite unit was encountered from 67 to 337 feet and quartz-porphyry from 337 feet to the end of hole at 607 - feet. The porphyry is assumed to be an intrusive plug or dyke with

border breccia zones. Copper concentrations appear erratic with the best grades in the meta-andesite near the porphyry contact; a 110 - foot zone here averaged .22% copper. Molybdenum concentrations throughout the hole appear low and erratic. Pyrite averaged about 3% for the total hole.

Hole 82-23 was cased to 41 feet. A meta-andesite unit was intersected from 41 to 574 feet. The quartz porphyry contact was intersected at 574 to the end of hole at 607 - feet. The meta-andesite was similar to that of hole 82-22 except for an abundance of medium grained variations which have been referred to as border phase diorite in previous work. Persistant chalcopyrite mineralization was evident throughout the hole but no significant ore grade intervals were achieved. Molybdenite concentrations were erratic with some enrichment at the quartz porphyry contact. Pyrite averaged about 2.5% for the total hole.

Hole 82-24 was cased to 31 feet. From 31 to 313 - feet, a complex dark rock assemblage was intersected which probably represents metamorphosed andesitic volcanics and associated sediments. Below 313 - feet to the end of hole at 603 feet the rock was lighter in color and probably represents a predominately dacitic assemblage. No significant mineralization or sulfide concentration was noted - the core was not assayed.

Hole 82-25 was cased to 11 feet. A calcareous meta sedimentary unit was encountered to 211 feet which included a black graphite schist from 11 to 63 feet. below 211 - feet to the end of hole at 397 feet, a dark green rock unit was intersected which probably represents an andesitic volcanic unit or equivalent volcanoclastic sediments. The hole appeared essentially barren and was not sampled.

3.3 CONCLUSIONS

Hole 82-21 failed to intersect the Cole sulfide zone and therefore, provides a partial cut off to the southern extension of the zone. Hole 82-22 and 82-23 both intersected the Cole sulfide zone as evident from the heavy pyrite concentrations and persistant chalcopyrite-molybdenite mineralization encountered; however, the lack of significant ore grade mineralization rules out the possibility of an ore body being present in this part of the zone. No obviously conductive material was found in hole 82-24 and therefore, the Iron Mtn. I. P. anomaly cannot be considered adequately explained. The 62 feet of graphite schist intersected at the top of hole 82-25 strongly suggests a graphite source for the anomaly to the south.

Submitted by,

Garry D. Bysouth

Garry D. Bysouth
Senior Geologist

GIBRALTAR MINES LTD.

GB/pl

4.0 STATEMENT OF EXPENDITURES

MARCH, APRIL, MAY 1982 DIAMOND DRILLING, SAWMILL GROUP.

a) Site Preparation

TD 20 Bulldozer April 20-22 30 hrs. @ $89.25		$ 2,677.50

b) Drilling Costs

Moving: Double H Carriers				$407.86	
Drilling:	82-21	426' @ $13.00/ft.	$5,538.00		
	82-22	607' @ $13.00/ft.	7,891.00		
	82-23	607' @ $13.00/ft.	7,891.00		
	82-24	603' @ $13.00/ft.	7,839.00		
	82-25	397' @ $13.00/ft.	5,161.00		
			$34,320.00	$34,320.00	
				$34,727.86	34,727.86

c) Vehicle Costs

4 x 4 1980 Suburban Apr. 13-28 7 days @ $20.00/day	140.00

d) Assay Costs

111 assays @ $4.40/assay	488.40

e) Miscellaneous Costs

132 coreboxes @ $4.90	$646.80	
Sample bags, tags, etc.	50.00	
	$696.80	696.80

f) Personnel Costs

Core Logging and Supervision

G.D. Bysouth	May 6-7	16 hrs.		
	May 11-12	16 hrs.		
	June 11	8 hrs.		
	June 16-17	16 hrs.		
	June 18	8 hrs.		
		64 hrs.	@ $31.25/hr.	$2,000.00

Field Work and Organizing

E. Oliver	Apr. 13	8 hrs.		
	Apr. 15	8 hrs.		
	Apr. 21	4 hrs.		
	Apr. 22	8 hrs.		
	Apr. 26-28	24 hrs.		
		52 hrs.	@ $20.00/hr.	1,040.00
C. Johnston	Apr. 13-15	20 hrs.		
	Apr. 21-22	12 hrs.		
	Apr. 26-28	24 hrs.		
		56 hrs.	@ $15.00/hr.	840.00

Core Splitting

D. Tait	June 1-3	24 hrs.		
	June 5-7	24 hrs.		
		48 hrs.	@ $12.50/hr.	600.00
				$4,480.00	4,480.00

TOTAL DRILLING COSTS $43,210.56

APPENDIX A

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 B.C., 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 B.C.

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

Garry D. Bysouth

APPENDIX B

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
pied	piedmontite
tour	tourmaline

BIBLIOGRAPHY

1. B.C. Minister of Mines Annual Reports
   - 1925, pp. 156
   - 1956, pp. 33
   - 1957, pp. 16
   - 1972, pp. 135

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

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

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

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

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

GRID ____

GIBRALTAR MINES LTD.

HOLE No. 82-21
SHEET No. 1 of 8

LOCATION Sawmill Zone | BEARING — | LATITUDE | CORE SIZE N-Q-W | LOGGED BY G.D.B
DATE COLLARED April 26, 1982 | LENGTH 426' | DEPARTURE | SCALE OF LOG 1" = 10' | DATE June 11, 1982
DATE COMPLETED April 27, 1982 | DIP -90° | ELEVATION | REMARKS

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	ESTIMATED % PYRITE	OX. DEPTH 0 / SUP. DEPTH / REMARKS	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						Casing To 11.6'																	
						11.6										11.6'							
10-20%	60-70%	?	5-15% chl. after hb.	equi. gran	5-6	BLEACHED DIORITE (11.6'-237') - med grn. equigranular	70 Str		20	70 70 70 80+45 45 x2 80 70	2" ⅞ 2" x2 ¼+½ ½+¼ 3" ½	qt3-carb qt3-carb qt3-chl-ser-toor x2 qt3-carb x2 qt3-ep-pied x2 qt3-ep qt3-toor	0	No Limonite			85	40					Tr.
						diorite or qt3-diorite with 5-15% chl mafics in a white matrix of spar and intergrown qt3 – qt3 is not ∃ all	70-45 Mod		30	45 x5 50 x4 70+80 40 x2	⅛-2" x5 ⅛-¾ x2 ⅛ x2 ⅛+½	qt3-pied x5 qt3-pied-garnet x4 qt3-ep-pied x2 qt3-ep-chl x2	0		20.6 27	97	85					Tr.
						apparent to the naked eye but appears intergrown in spar and may reach conc's of 20% – This rx is not	ND		40	80 50x2+5 60 x2 15x4 80	½ ⅛x3 ⅛x2 ⅛x4 8"	qt3-ep-tour. qt3-pied x3 qt3-pied x2 qt3-pied x4 qt3	0		37	99	72					Tr.
						a typical border phase diorite – possible clay alt'n (odor when wet.)			50	60 x2 70 5+15 45	8"-10" 6" ½+1" 2"	qt3-ep-chl-pied x2 qt3-ep-chl-pied qt3-carb-chl-pied-py-cp sphal x2 qt3	2.5		47	94	77					.03

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
10,585
NO.

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-21
SHEET No. 2 of 8

OX. DEPTH _____
SUP. DEPTH _____

ROCK TYPES & ALTERATION: Oil.	Pleo.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	REMARKS	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Cu
						BLEACHED DIORITE (11.6-237')	ND		60		20 15 40 x 2 80	1" ½ ½ + ¼ 2"	qtz-chl-pied qtz-chl-pied qtz-pied x2 qtz-tour.-pied	0		57	95	74		-	-		Tr.
							ND		70		5 90 80 x 3 80 70	½₂₀ 2½" 1" - ½₀ x2 ⅛ 2"	chl-ep-sphal qtz-ser-pied-tour qtz-tour qtz-ser-pied qtz-tour-pied	0		67	97	78					Tr.
							ND		80		5 80? 35 x 3	12" 16" ⅛₀-1" x 3	chl-pied-qtz zone qtz-chl-ep-pied zone qtz-chl-ser x3	0		77	97	93					Tr.
							ND		90		30? 45 35	30" 1-2" 5"	qtz-ep-pied-chl-garnet zone qtz-ep-pied qtz-ep-pied	0		87	98	90					Tr
							ND		100		30-45 x + 90 40 x 5 50	½₀ x 2 ½ ½₀ x 5 10"	qtz-ep x 2 qtz-tour qtz-chl-ep x 5 qtz-ep-pied zone	0		97	97	83					Tr
							80 to 5 WK-Sft.		110		20-40 45 70 5	30" 8" 1" 36"	qtz-ep-chl zone qtz-chl-ep-pied zone qtz-ep-pied qtz-ep (pied) zone	0		107	97	97					Tr.

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-21
SHEET No. 3 of 8

OX. DEPTH _____
SUP. DEPTH _____

ROCK TYPES & ALTERATION: Oil.	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	REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Au
						BLEACHED DIORITE (11.6 - 237')	S Str		120		5°	13'	qtz - chl - ep - pied - (carb) zone tr of cp-py	< 5		117	93	95		-			.02
							Sp Str		133		40 40	2" 1/4 x 2	qtz - ep - pied qtz - cp - pied x 2	0		127	95	93					Tr.
							NS		140		30 40 x 5 30 50	2 1/2 1" - 1/2 + 1/8 x 2 1/2 2"	qtz - chl - carb qtz - pied - cp x 5 qtz - cp - pied qtz - ep - pied (py)	< 5		137	95	50					Tr.
							ND		150		70 x 2 50 x 4 60 x 2	1/8 - 1/10 1/10 x 4 2 1/2" + 1/2	qtz - tour qtz - ep x 4 qtz - ep - pied ((py)) x 2	0		147	95	70					Tr
							ND		160		30	1/10	qtz - chl - ep	0		154	97	72					Tr
							NS		170		30 x 5 70	1/10 - 1/20 x 5 1"	white qq x 5 qtz - cp - pied	0		164	97 93	70					Tr.

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-21
SHEET No. 4 of 8

OX. DEPTH _____
SUP. DEPTH _____

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	REMARKS	Footage Discont.	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimate Grade
BLEACHED DIORITE (11.6 - 237) med-fine grn diorite (meta-andesite)	ND		180		45 50	4" 36"	qt3-chl(vug) dyke cut by numerous ¼-hle qt3-ep-pied veins	0		173	95	65		-			Tr.
med-fine grn diorite or meta-andesite	ND		190		5+90	1/10x2	qt3-chlx2	•		183.5 187	97	65					Tr
	ts-60 Mod		200		60 80x2	10' 1/10x2	dyke cut by numerous 40-60° ½-hle qt3-ep and qt3-chl veins. qt3-pied-epx2	0		197	97	77					Tr.
	ND		210		80 40 80x5	1" 14" 1/10x5	qt3-(chl) qt3-carb-pied zone qt3-pied x5	0		207	97	87					Tr.
	ND		220		20+80 60 60 70 70	1/10+1/4 8" 4" 1/4 1"	qt3-pied x2 qt3-carb-pied qt3-chl qt3-pied-ser	0		217	97	75					Tr.
	ND		230		80 30 50 60 70	7' 1/4x2 1" 14" 3"	qt3-carb-pied qt3-ser x2 qt3-ser-pied qt3-chl-ser-carb-qg qt3-chl			227	95	55					Tr

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-21
SHEET No. 5 of 8

ROCK TYPES & ALTERATION							∠ to Core Foliation	GRAPHIC LOG Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Discr.	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
Oil.	Pleo.	K-Spar.	Matic	Texture	Hardness																		
							70 Mod.				90 90 70-60 x 8 55 70 x 3	1/4 10" 1/4-1/2 x 8 6" 1/2 x 3	qt3-pied qt3-cp qt3-pied x 8 qt3-chl-pied qt3-pied x 3	0		237	93	50					Tr
						237			240		80 x 6	1/4-1" x 6	qt3-pied x6				94						
						BANDED QTZ-CHL.(SER.) ZONE (237-288) qt3-carb and	70 Str				45	16"	qt3	0		242.5 247	82	0					Tr
						qt3 ep-ser bands 1/10-6" wide in dk-grey fine grn foliated rx - bands usually are parallel to foln. but	70 Str		250		70 50 5	6" 12" 2"	qt3 qt3. qt3	0		250.5 256	57 56	10					Tr
						occasionally X-cut - likely a meta-sed. unit. (andesitic volc's and volcano-clastics)	60-70 Str		270		5	1/4	qt3-carb.	0		266.6	95	0					Tr
							70-80 Str		280		60	3" 14"	qt3 99	0		276	72	0					Tr.
						288	70-80 Str							0		286.5	93	0					Tr.
									290														

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-21
SHEET No. 6 of 8

ROCK TYPES & ALTERATION: Oil.	Plag.	K-Spar	Matrix	Texture	Hardness		∠ 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 Diesel.	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated
						Pale brown qtz ser.- carb. zone (288-349)	80-90 str		300					0		297	96	10					Tr
						also banded with pale brown laminae alternating with qtz-carb bands and veins - the brown may	5-90 str sl. Cren.		310					0		307	99	45					Tr
						be fine garnet mixed with ser. and qtz - from 288-310, the rx contains 5-20%	20-90 str & sl Cren		320		80	4"	qtz(((cp)))	0		317	98	73					Tr
						pyroxene?? as 1/16-1/8" scattered equant + squat grains of dk green material often strung out along plane at 30 +/- to foln.	5-90 str & sl. Cren.		330		80	12"	qtz-ser-py - parallel to foln	2%		327	96	40					.10
						(relict bedding?) ∴ this zone prob represents altered limy siltstones.	5-80 sl. Cren		340		80	2"	qtz-(carb) ((cp))	0		337	95	35					.02
						349	70-80 str		350					0		347	92	40					

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-21
SHEET No. 7 of 8

ROCK TYPES & ALTERATION							∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	GRAPHIC LOG: Footage	GRAPHIC LOG: Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
Oil.	Plag.	K-Spar.	Mafic	Texture	Hardness																		
			·	·		BANDED & BRECCIA QTZ-CHL-EP. ZONE (349'-426') a complex	60 Str.		360					0		357	95	94					Tr
						zone in which chl+ep are the chief minerals (60-80% of rx) with qtz-spar-carb and minor	70 wk		370				scattered fine veins (1/20") containing xtals of cp-bo	0		367	93	70					.05
					—	garnet comprising the remainder — prob. a meta sequence of andesitic volcanics and volcano-clastic	80-Str to 70 wk		380		50	14"	qtz-carb	0		377 378	92 45	58					Tr
						sediments.	80 Mod		390		45	3"	qtz-ep(pied)				80	65					Tr
							70 Mod		400		90+20 20 80	1/4x2 1/2 2"	qtz x2 qtz-carb qtz	0		396	98 95	52					Tr
							40-45 Str.		410		40	2" 3'	qtz-mag qtz-ser-carb (garnet) zone	0		406		70					Tr.

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-21
SHEET No. 8 of 8

ROCK TYPES & ALTERATION								GRAPHIC LOG														ASSAY RESULTS				
Oil.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	Structures	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 Mod				5 x2	1/4 x 2	carb x2											
											40	8"	qtz-ser-carb				90							
											30	3'	qtz-ser-carb zone	0		416.6		56		-			Tr
									420		10+30	1/8 x 2	qtz-carb x2											
							50 Str				50 +80	1/2 x 2	qtz-(ser) <2											
						EOH 426'			426		40 40	2' 2½	qtz-ser-carb zone qtz-carb-py	0.5		426	90	31					Tr.
						SQ Bypassed																		

GRID _____ GIBRALTAR MINES LTD. HOLE No. 82-23
SHEET No. 1 of 10

LOCATION Sawmill Zone | BEARING 0° | LATITUDE _____ | CORE SIZE NQ Wireline | LOGGED BY G.D.B.
DATE COLLARED April 29, 1982 | LENGTH 607' | DEPARTURE _____ | SCALE OF LOG 1" = 10' | DATE April 11, 1982 May 12
DATE COMPLETED April 30, 1982 | DIP -90° | ELEVATION ~3160 | REMARKS _____

OX. DEPTH 75 | SUP. DEPTH —

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Silicified	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	REMARKS	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						Casing To 41 Feet																	
						41										41							
20%	35-45%	?	35% chl. 5-10% ep			BORDER PHASE DIORITE ? META ANDESITE ? a fine-med.	70 WK		50		30+40 70x2 70x2 20 40x3 30x2 20x3	12"+4" ½x2 1"+½ ⅜ ⅛ex2+1/10 ⅛ex2 ⅛ex3	chl-ep (lim)(mal)(ag) x2 qt3-chl-ep (vug) qt3-epx2 qt3-chl-carb-tour limx3 MnO2x2 MnO2-limx3	<5	limonite Strong to 75'	47	97	50	85048	05	002		.05
						grained foliated inequigranular rx type of variable texture and general appearence –	70 Mod		60		20x3 15x2 70x2	⅛ex3 ⅛+⅛e ⅛x2	MnO2-limx2 MnO2+lim-mal chl-epx2	<5		57	99	72	85049	03	002		.10
						grades to a typical Border Phase from a finer grn. type resembling meta-andesite (41-106)	60 Mod		70		50x4 45x3 5+90	⅛ex4 ½x3 14" 12" ¼+½	chl-malx4 qt3-chl-py(ep)x3 qt3-ser-chl-lim zone chl-ep qt3-chl(vug)-lim-MnO2	<5		67	94	57	85050	07	002	X	.12
							60 Mod		80		60 20x2 90 40x8	1" ⅛ex2 20° 2" 1/10 1/20-⅛x8	qt3 limx2 bx-lim qt3 MnO2-lim qt3-chl-pyx8	1-2%		72 74 76.5	75 60	50	85051	05	002		.10

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
10,585
NO.

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-23
SHEET No. 2 of 10

OX. DEPTH _____
SUP. DEPTH _____

ROCK TYPES & ALTERATION: Oil.	Plag.	K-Spar	Matrix	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structures	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							60 Mod-Str.		90	15 80 30 x2 30 40 x3 90 + 30		2" 1" 1/8 - 1/10 2" 1/10 + 1/20 x2 1" x2	qtz-ep-pied qtz (ep) qtz-chl-py (cp) x2 qtz-ep-pied. qtz-chl-py x2 qtz-chl-ep-pied x2	.5		87	95	76	85052	03	002		.10
							60 Mod-Str.		100	40 x2 30 15 30 + 35		1/10 x2 1/20 1/10 1/20 + 1/10	qtz-chl-py x2 qtz-chl-py qtz-chl-py qtz-chl (py)	.5		97	99	85	85053	08	.001		.08
						106	60 Mod-Wk	META-ANDESITE UNIT (106-343)	110	15 50 x4 15 40? x2 50		1/10 1/10 - 1/20 x4 1/20 12" x2 24"	qtz-chl-ser-py qtz-chl-py x4 qtz-chl-py (cp) qtz-chl-ep-pied bx zone x2 banded chl (ep) (py) ((cp)) zone	.5		107	98	75	85054	.06	002	X	.12
							50 Wk-Mod	Fine grn diorite or andesite containing many coarser grn matic-rich bx phases and occassional dykes?s of border phase	130	20 5 20 20 40-50 x4 20 90		13" 1/4 1/2 1/4 1/20 x4 1" 1"	qtz-carb-chl (py) (cc) banded zone qtz-tour qtz-chl-py (cp) ((cc)) qtz-chl-tour-py (cp) qtz-chl-py x4 qtz-chl-py (cp) - vug qtz-tour	1%		117	95	83	85055	09	004		.12
							50 Wk-Mod	diorite. ep bx - frags of plag-ep in 60% chl. matrix	130	50 15 40 x3 60 80 20 x2 60		1/8 1/4 1/10 x3 1/8 2" 10" 1/20 x2 1"	qtz-chl-py qtz-chl-py-carb qtz-chl-py-carb x3 chl-ep-py (cp) tour-chl-ep-py (cp) chl-ep-pied 3 ore qtz-chl-carb-py (cp) x2 qtz-tour	2.5		127	96	87	85056	09	004		.15
								12" dyke of med-coarse grn border phase	140	15 15 70 + 35 + 40 60 ym 20		1/4 1/8 1/20 x3 1/10 x2 1/10	qtz-chl-carb-py (cp) qtz-chl-carb-py qtz-chl-py x3 qtz-tour x2 chl-py	1.5		137	95	98	85057	02	006		.10

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-23
SHEET No. 3 of 10

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation Alteration	GRAPHIC LOG: Footage	Structure	Veins ∠ to Core Axis	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		Estimated Grade
						border phase - sharp 45° contacts	NB	150		90 x2 5 80 80 45 x2	1/10 to 1/4 1/10 1/4 1/4 1/10 to 1/2	qtz-tour x2 qtz-chl-lim-py (cp) qtz-chl-py qtz-mag qtz-chl-py + chl-garnet-py-cp	1.0%		147	95	81	85058	04	002		.12
							ND	160		5 6 10+90 45 45 80 80	2" 4" 1/8 + 1/2 1/10 1/8 1" 12" 1/2	chl-lim chl-ep-py(cp) qtz-chl-carb-py (cp) x2 qtz-chl-py chl-garnet qtz-tour chl-ep ((py)) qtz-carb	1.5		157	93	80	85059	05	002	X	.10
							70 wk	170		90 60 x2 70 45 70 70 5+60 x2	1/10 1/4 x2 1/4 1/4 1/4 6" 1/10 x3	qtz-py (cp) chl-tour. qtz qtz-py qtz-tour. qtz-chl-py zone cp x3	1.0%		167	97	75	85060	06	004		.08
							50 wk	190		80 x2+45 50+40+80 20 30 45+40+35 40 50 80	1/10 x3 1/10 x2+1/4 6" 2" 1/4 x3 3/8 1/4 4"	qtz-chl-py x3 qtz-chl-py x3 qtz-carb-cp-chl-py ((cp)) zone qtz-chl-carb-py qtz-chl-py (cp) (wk) x3 qtz-py ((cp)) ((wk)) qtz-carb-chl-py chl-ep-py (cp) zone	2.0%		177	96	60	85061	09	008		12
							50 wk	190		80 80 80 x2 60-40	6" 2" 1/4 x2 12"	chl-ep-py zone chl-py qtz x2 chl-ep (py) ((cp))	1.0%		187	80	18	85062	08	002		10
							60 wk	200		35 45 x3 70 60 70 70 10+30+35 ?	1/4 1/10-1/20 x3 2" 1/8 1/10 4" 1/10-1/20 x3 24"	qtz-chl-py qtz-chl-py (cp) x3 chl-garnet (py) qtz-carb-py qtz-chl-py chl-ep-qtz-carb qtz-chl-py qtz-chl-carb-ep (py) zone	2.0%		191 197	88 90	48	85063	08	004	X	.12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-23
SHEET No. 4 of 10

ROCK TYPES & ALTERATION: Oil.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: 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
							NB				40	1/8	qtz-chl-py (cp)	2%			95						
											70	1"	chl-py										
											40	1½"	qtz-carb-chl-py-cp										
											45-60 x 4	1/10 x 4	qtz-carb-chl-py-cp x 4										
											30+20	1/10 x 2	qtz-chl-py x 2										
											50	1/10	qtz-py (cp) ((Mo))										
											30 x 2	1/10 x 2	qtz-chl-py x 2										
											70	1/10	qtz-chl-py (cp)										
											80 x 2	2" + ½	chl? py x 2										
									210		70 x 2	1/10 - 1/10	qtz - chl - py (cp)										
											50 x 2	1/20 - 3/8	qtz-chl-py ± qtz-mag										
											50	2"	qtz-py (cp) (Mo)				93						
											80 x 5	1/10 - 1/20 x 5	qtz-chl-py (cp) x 5										
											20-30 x 4	1/20 x 4	qtz-chl-py (cp) x 4										
											50	1/8	qtz-py (cp)										
											45	2"	chl-carb-py (cp)										
											80 x 2	6" + 24"	qtz-carb-tour x 2										
											45? x 2	3" ± 7"	qtz-chl-py x 2										
		med-coarse grn border phase — usually showing a sharp contact 80-45° and from 6" to 5" wide					NB - 80 wk		220		45	1/10 x 2		2%		212	80	58	83065	.14	.048		.15
											5 x 2	1/10 + 1/8	qtz-chl-carb-py (cp)										
											80	1/8	qtz-py (cp)										
											45-70 x 6	1/20 x 6	qtz-chl-py x 6										
											70	½	qtz										
											20+30+10	1/20 x 3	qtz-chl-py x 3										
											80 x 2	½ x 2	qtz-(chl)(py) x 2										
											30+90 x 2	1/4 x 3	qtz-tour x 3										
									230		50	4"	qtz-carb-cp	1%		227	85	38	85066	.09	.014		.10
											70	2"	chl-carb										
											50+80	1/8 - 1/10	qtz-cp-py (vug) x 2										
											50	1/10	qtz-chl-py										
											30	1/4	qtz-chl-py										
											30+5 x 5	1/4 + 1/10 x 5	qtz-chl-py x 6										
											60 x 2+5 x 6	1/10 x 8	qtz-chl-py x 8										
											20-15 x 10	1/10 - 1/20 x 10	qtz-chl-py x 10										
									240		60	3/8	qtz-py-Mo-cp	3.5%		237	92	60	85067	.10	.030		.12
											25+80	1/4 x 2	qtz-chl-py (cp) x 2										
											25 x 4 + 45 x 3	1/20 x 7	qtz-chl-py x 7										
											20+30	1/10 x 2	qtz-py x 2										
											35	1/4	qtz-py (cp)										
											20-30 x 4	1/10 - 1/8 x 4	qtz-chl-py x 4										
											20 x 3	1/4 x 3	qtz-chl-py (cp) ((Mo))										
									250		10	1/4	qtz (cp) ((Mo))	3%		247	95	96	85068	.14	.014	X	.15
											15 x 4	1/8 x 2 + 1/10 x 2	qtz-chl-py										
											15	1/4	qtz (cp) (Mo)										
											20-10 x 12	1/20 - 1/10 x 12	qtz-chl-py x 12										
											30 x 2	1/4 x 3	qtz-py (cp) ((Mo)) x 3										
											30 x 4	1/10 x 4	qtz-py x 4										
											5-15 x 6	1/10 - 1/20 x 6	qtz-chl-py (cp) x 6										
											25	3/8	qtz-chl-pred-py (cp)										
									260		20-40 x 15	1/20 - 1/8 x 15	qtz-chl-py x 15	5%		257	99	91	85069	.16	.010		.15

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-23
SHEET No. 5 of 10

ROCK TYPES & ALTERATION: Oil.	Pleg.	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	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Ore
							ND		270		40+6 30-10 x 10 5 5x2 40x6 30 x 13 5 15+5	1/16-1/20 x 6 1/20-1/10 x 10 1/8 x 2 1/10-1/20 x 6 1/20-1/10 x 15 1/4 1/4-1/8 x 3	qtz-chl-py x 6 qtz-chl-py (cp) x 16 qtz-py (cp) x 2 qtz-chl-py x 6 qtz (chl)-py x 15 qtz-chl-py (cp) qtz (chl)-py x 5	4.5		267	40	58	85070	.12	006		.12
							ND		290		30x3 3-4x2 20 20x3 10-15 x 4 40x3+80x4 15x2 30 20x3	1/4 x 3 1/4+3/8 3" 1/10 x 3 1/8-1/10 x 4 1/10 x 3+1/32 x 4 1/8 x 2 1/4 1/2+1/4+1"	qtz-carb-py (cp) x 3 qtz-py x 2 qtz (py) cp qtz-chl-py x 3 qtz-chl-py x 4 qtz-chl-py x 7 qtz-chl-carb (cp) py qtz-chl-py qtz-chl-py (cp) ((wg)) x 3	4.5		277	92	65	85071	.12	.006		.12
							ND		290		10 5 5x2 15x5 80 80 5+80 15 4+x3	2" 3/8 1/10 x 2 1/8 x 5 6" 2" 1/4 x 2 3" 1/4 x 3	qtz (chl) py qtz-chl-py qtz-chl-py (cp) x 2 qtz-chl-py x 5 qtz-ep-py chl-carb qtz-chl-py (cp) x 2 ep-qtz qtz-chl-py (cp) x 3	5.0		287 291	96 98	50	85072	24	.008	y	.14
							ND		300		5+90 30x5 60 5x2 80x4 50x2 80+40 80 5+30 30-50 x 2	1/4+3" 1/20 x 5 6" 1/10 x 2 1"+2"x3 1/8 x 2 1/10+1/8 1/8 1/8 x 2 1/4 x 2	qtz-py (cp)+qtz-ep qtz-chl-py (cp) x 5 qtz-carb-ep qtz-chl-py (cp) x 2 qtz-ep (wg) qtz-chl-py-cp x 2 qtz-chl-py (cp) x 2 qtz-py (cp) ((chl)) qtz-carb-py (cp) x 2 qtz-carb-chl-py (cp) x 2	5.0			95	76	85073	12	.010		.12
									315		60 90 90-50 50x2+70 30 45 45x2 30 30	6" 1/10 2"x2 2"+1x2 1/4 1/4 1/8 x 2 3" 1/4	qtz-chl-py qtz-chl-py chl-py-garnet x 2 chl-garnet-py qtz-chl-py ((cp)) ((Mo)) qtz-chl-py-cp qtz-chl-py (cp) x 2 qtz-py (cp) ((Mo)) qtz-py-cp ((Mo))	4.0		301 307	98	71	85074	23	.028		.18
									320		40 80 60 x 2 40+60 40+45x2 45 45 35x4 20x2	2/8 2" 3"x2 1/16 x 2 1/4+1/8 x 2 8" 1/10 1/10 x 4 1/8 x 2	qtz-ep-py qtz-tour-ab qtz-ep+chl qtz-carb-py ((cp)) qtz-chl-carb-py (cp) x 3 qtz-chl-py ((cp)) qtz-chl-py qtz-chl-py x 4 qtz-chl-py x 2	4.0		317	95	72	85075	04	.003		10

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-23
SHEET No. 6 of 10

ROCK TYPES & ALTERATION								∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structures	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Discrt.	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated
Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness																			
								ND		330	50 - 40 x 15 70 40 x 2 50 30? 90	1/10 - 1/8 x 15 2" 1/4 x 2 1/4 7/8 24"	qtz-chl-carb-py ∧ 15 qtz-ab. qtz-chl-py x2 qtz-chl-py qtz-carb-py banded chl-carb zone	3.0%		327	99	35	85076	.09	004		08
							contact? inter chl-ep grading to ep-chl bx zones	NS		343	80 45x2 5 80 70 40x2 30 70	24" 1/10x2 2" 2" 1" 1/10x2 1/2, 1"	banded chl-carb-bx zone qtz-chl-carb-py(cp)x2 chl-carb-py-ep zone chl-carb-garnet py-cp zone chl-carb-py-cp zone qtz-chl-py(cp) chl-carb-py(cp)	3.5%		337	95	75	85077	.15	002	y	.18
							343				60+20x4 45x3 40 40x2 45x4 40 45x6 50x2	1/4 - 1/10x4 1/4+1/10x4 1/2 1/2 x2 1/10x4 6" 1/10-1/20x6 1/10x2	qtz-carb-py(cp) + qtz-chl-py x4 qtz-carb-py(cp) x5 qtz-chl-carb-cp-py qtz-chl-carb-py(cp)x2 qtz-chl-py x4 qtz-chl-carb-ep-(py)(cp) qtz-chl-py x6 qtz-chl-py-cpx2	3.5%		347	95	73	85078	.18	005		.25
							BORDER PHASE DIORITE (with minor fine grn meta-andesite zones.) (343-466) The border phase is med. grn., def. plutonic textured except	70 wk		350	20 15 40x3 10 30+35+45x2 40x4 35+45+50	1/8 1" 1/6+1/10x2 1" 1/10-1/20x4 1/10x4 1/20-1/10x3	qtz-chl-cp qtz-chl-ep(vug) qtz-chl-py-cp(Mo)x3 qtz-chl-py-mag-cp qtz-chl-py qtz-chl-py(cp)x4 qtz-chl-py	3.0%		351	99 90	70	85079	.17	007		.20
							for weak chl-rich banding along foliation - often contains rounded ep blebs 1/4-2" dia giving a bx aspect as the conc. of blebs reaches > 20%	70 Mod		370	40 50x2+10 50 80 45-50 x4 60x2 60 x2 70-80x5	1/20x3 1/10x3 1/2 1/2 1/8x4 3"+1/4 1/10 x2 1/10x5	qtz-chl-py x3 qtz-chl-py(cp)x3 qtz-chl-py qtz-py(cp) qtz-chl-py x4 qtz-mag-py(cp)x2 qtz-chl-py(cp) x3 qtz-chl-pyx5	2.5%		361	95	50	85080	.11	006		.15
										380	45x2 50x2? 45 40 40 30 45x3 45 40x5	1/10x2 1/8x2 1/2 6" 4" 2" 1/20+1/10x2 1/4 1/10x5	qtz-chl-py x2 qtz-chl-py(cp)(Mo)x2 qtz-ep-cp-pied qtz-ep-chl-py zone qtz-ep-chl-py(cp) zone qtz-cp-chl-pied-py zone qtz-chl-py(cp)x3 qtz-pied-cp qtz-chl-pyx5	3%		371	95	65	85081	.12	003		.20

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-23
SHEET No. 7 of 10

OX. DEPTH _____
SUP. DEPTH _____

ROCK TYPES & ALTERATION: Oil.	Pleo.	K-Spar.	Mafic	Texture	Hardness	∠ to Core: Foliation	Alteration	Footage	GRAPHIC LOG: Structure	Vein ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	REMARKS	Footage Discrep.	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Est. Au
						ND		390		20 70 45-60 x 3 45±75 70 60 40+50+80 50 x 2 60 x 2 + 10	1/2 7" 1/20-1/10 x 3 1/4 + 2" 3/4 1/2 1/10 x 2 1/6 + 1/10 1/10 x 2 + 2"	qtz-ep-cp qtz-chl-cp-pied-py((cp)) qtz-chl-py(cp) x 2 qtz-ep-pied(py)(cp) x 2 qtz qtz-cp qtz-chl-py(cp) x 3 qtz-chl-py x 2 qtz-chl-py x 2 + qtz-chl-carb	3.0 %		381	95	60	85082	13	003		.18
						ND		400		80? 45 ? 60 x 2 45+60 50 45 x 3 50 60 x 2	12" 1/8 36" 1/10 x 2 1/4 + 1/10 1/4 1/20 x 3 3/8 1/20 x 2	chl-ep 3onc qtz-chl-carb-py chl-ep(qtz) py bx 3onc qtz-chl-carb-py-cp x 2 qtz-chl-carb-py-cp x 2 qtz-(cp) qtz-py(cp) x 3 qtz-mag-py(cp) qtz-py x 2	3.5 %		391	96	63	85083	12	.006		20
						ND		410		50 x 6 25 45 40+80 35 x 2 20 80	1/10 x 6 1" 2" 1/10 x 2 1/10 x 2 1/10 6"	qtz-chl-py x 3 qtz-mca-cp chl-py-cp qtz-chl-py-cp + qtz-cp qtz-chl-py qtz-chl-py banded-qtz-chl-carb	2 %		401	95	72	85084	.22	.002		25
						70 WK		420		60 70 80 45 5 x 4 80 x 3 80 50	1/10 1/2 1" 1/2 1/8 + 1/20 x 3 1/8 x 3 1/2 1/3 12"	qtz-chl-py chl-py qtz-cp-chl bx qtz-mag-py(cp) qtz-chl-py(cp) x 4 qtz-chl-py x 3 qtz-tour-ab((cp)) qtz-chl-py(cp) qtz-cp-chl.	1.5		411	98	70	85085	.32	.008		.15
								430		70 40 5 20 5 45 20 20 x 2 50	1" 1/10 3/8 3/8 1/2 1/10 1/10 1/10 + 1/2" 1/10	qtz((wo)) qtz-cp-cp(vug) qtz qtz-chl(tour)-py(cp) qtz-chl-py((cp)) qtz-chl-ep-py(cp) qtz-chl-py qtz x 2 qtz-chl-py-cp	1.0		431	95	65	85086	.12	.008	✓	.12
								440		50 x 2 50 25 + CD 45 60 50 45 x 2 30 45 x 2	1/10 x 2 1/2 1/20 + 1/10 1/10 1/2 1/20 x 2 3" 1/4 + 1/10	qtz-chl-py x 2 qtz-chl-py qtz-chl-py-cp x 2 qtz-chl-py qtz-chl-py chl-py(cp) qtz-chl-py(cp) x 2 qtz-ep-py-chl qtz-chl-py(cp) x 2	1.5 %		431 438	98	52	85087	.12	.002		14

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-23
SHEET No. 8 of 10

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 Diesel	Estimated Core Recovery %	RQD	ASSAY RESULTS Sample Number	% Cu	% Mo		Est. Au
Qtz.	Plag.	K-Spar.	Mafic	Tourmaline	Hardness																			
								70 Mod		450		40+45+70 45+70 50×3 70×2 30×2 50×2 45 45×6	1/4 ×3 1/16-1/8 1/16×3 1/16×2 1/8×2 1/4-3/4 hle-1/20×6	qtz-chl-py ((cp)) ×3 qtz-chl-py (cp) qtz-chl-py ×3 qtz-chl-py (cp) ×2 qtz-chl-py (cp) ×2 qtz-chl-carb-py ×2 qtz-chl (py) ×2	1.0%		447	99	48	85088	.11	.004		.10
								70 Mod		469		80 40×2 45 20 45×3 40 5 45 45×2	1/8 1"×2 1/4" 1/16×3 1/8×2 2" 1" 1"-1/16	chl-(cp) qtz-py ×2 qtz-chl-py (cp) qtz-py ((cp)) qtz-chl-py ×2 qtz-chl-py (cp) ×2 qtz-chl-carb qtz-chl-carb chl-py ×2	3.0%		457	92	34	85089	.11	.004		.12
							466	60 Mod				50×3 70 50×4 45 5 40×7	1/16×3 2" 1/4-1/8-1/16-1/20 1/16 1" 1/16-1/20×22	qtz-chl-py (cp) ×3 qtz qtz-chl-py (cp) ×4 qtz-chl-py-cp chl ((cp)) qtz-chl-py (cp) ×3	3.5%		467	85	42	55090	.12	.010		.16
								CHL. EP. Bx. ZONE (466-478)	50 Str	470		35-45×6 50×2 30-50×8	1/16×6 1/8×2 1/8-1/10×8	qtz-chl-py (cp) ×6 qtz-chl-carb-py ((cp)) ×2 qtz-chl-carb-py-cp ×8										
							478	50 Str	rounded 1/4-2" cp frags in swirled chl-carb matrix	480		35×3 70+30+45 25-50 70×2 60×2 45 20×2 45×5 50×6 60	1/10×3 1/4+1/16×2 1/4-3/8 1/10×2 1/8×2 2" 1/10×2 1/20-1/8×5 1/20-1/10×6 1/4	qtz-chl-py-cp ×3 qtz-chl-py (cp) ×3 qtz-py (cp) chl-cp ×2 qtz-chl-py (cp) ×2 qtz ((py)) qtz-chl-py (cp) qtz-chl-carb-py-cp ×5 qtz-chl-py-cp ×2 qtz-py-cp	4%		477	92	35	85091	.24	.008		.30
								BORDER PHASE (478-530)		490		70 50×10 30 90 50-60×5 40×2	1/10 hle-1/10×10 1/2 1" 1/2-1/4×3 1/10×3	qtz-chl-py qtz-chl-py ×10 qtz qtz-carb qtz-cp (py) ×8 qtz-chl-py ×3	1%		487	93	67	85092	.10	.004		.08
										500		20 80 80×4 70×5 50 45 50×2 70	1/2 1" 1/10×2 1/10×5 1/8 1/8×2 1/10×2 1/2	qtz qtz-carb chl-py ×4 qtz-chl-py ×5 qtz-py qtz-chl-cp-pyrd-py ×2 qtz-chl-py ×2 qtz	1.5%		497	93	570	35093	.12	.008		.08

GRID ______

GIBRALTAR MINES LTD.

ROCK TYPES & ALTERATION (Dis. / 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
numerous minor	ND	510	60 x 8 60 + 45 45 50 + 90 70 x 6 40 + 80 30 45 x 4	1/10 x 8 1/4 1/2 1/4 + 1/2 1/20 x 6 1/4 + 1/10 1/4 1/10 x 4	qtz-chl-py (cp) x8 qtz-pied-py x2 qtz-chl-py qtz-chl-py (cp) chl-py-(cp) x 6 qtz-chl-py x2 qtz qtz-chl-py (cp) x4	2%		507	95	52	85094	.17	.016		.15
chl-ep bx zones	ND	520	70 x 4 60 x 2 50 x 6 40 + 45 + 50 70 + 40 45 x 2 70 x 5	1/10 x 4 1/4 + 3/8 1/10 x 6 1/3 + 1/10 x 2 1/4 + 1/2 1/10 x 2 1/10 - 1/20 x 5	qtz-chl-py x4 qtz-py (cp) qtz-chl-py x 6 qtz-chl-py x 3 qtz-chl-py (cp) x. qtz-chl-py (cp) x2 qtz-chl-py x5	2.5%		517	97	84	95[illegible]	.16	.010	Y	.10
530	70 Str	530	40 60 x - 60 70 50 x 3 40 40 45 x 2 10 x 3	14" 1/10 - 1/6 x 12 1/2 1/3 1/10 - 1/8 x 2 1/8 1/4 3" + 6" 1/8 x 3	chl-qtz-ep zone qtz-chl-py x 2 qtz-py qtz-chl-py-cp qtz-chl-py-carb-((cp)) x3 qtz-chl-carb-py-cp qtz-chl-py chl-py (cp) x2 qtz-chl-py-cp x 3	25%		527	95	30	95[illegible]	.30	.008		.25
CHL EP BX ZONE (530 - 574) - Same as 466 - 478 -	70 Str	540	70 x 10 50 x 2 30 x 3 80 x 5 60 70 - 80 x 6	1/20 - 1/8 x 10 1/4 + 1/8 1/10 x 3 1/10 - 1/20 x 5 1/4 1/20 - 1/10 x 6	qtz-chl-py x 10 qtz-chl-py qtz-chl-py-cp x 3 qtz-chl-py x5 qtz-chl-carb-cp qtz-chl-py x 6	2.5		537	94	50	95[illegible]	.11	.006		.15
	70 Str	550	70 x 4 45 + 50 x 2 45 x 6 70 60 60 x 3 60 x 3	1/10 x 4 1/10 x 2 hle - 1/20 x 6 1/2 1/2 1/10 x 3 1/4 + 1/10 x 2	qtz-chl-py x4 qtz-chl-py qtz-chl-py x6 qtz qtz ((cp)) qtz-chl-py (cp) x3 qtz-chl-py (cp) x 3	2%		547	97	55	95[illegible]5	17	019		.12
	70 Str	560	50 60 x 3 20 + 50 70 x 2 + 45 40 50 - 45 x 6 70 45 x 3 70	1" 1/10 x 3 1/8 x 2 1/10 x 3 1/8 1/20 - 1/10 x 6 2" 1/10 x 3 1/4	qtz-chl-py qtz-chl-py (cp) x 2 qtz-chl-py-cp x2 qtz-chl-py x3 qtz-chl-py qtz-chl-py x6 qtz-py (vuggy) qtz-chl-py x3 qtz-py (cp)	3%		557	97	30	95019	10	014	Y	.12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 8-83
SHEET No. 10 of 10

ROCK TYPES & ALTERATION: Qtz	Plag	K-Spar	Mafic	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structures	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Discrs.	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							70 Str		570		80 60 70 50+60 70 80 45 60x2+45x3	1" 1/10 3" 1/20-2 1/8 1/4 1/4 1/10x5	qtz (py)-carb qtz-chl-py(cp) qtz-ser-chl(py) qtz-chl-py-cp qtz-chl-py-cp qtz-pl qtz-py qtz-chl-py	2.5%		567	96	50	85100	16	015		10
						574	70 Str		580		70 70x4 70-60x5 70x10 50+60x2 70 80	3/8 1/8+1/10x3 1/10x5 1/20-1/10 1/10x2 1/8 1/4	qtz-py(cp)(chl) qtz-chl-py qtz-chl-py qtz-chl-py x 10 qtz-chl-py x 3 qtz-py(cp) qtz	2%		577	97	72	85101	12	014		12
						587	70 Str	banded rx with lenses of qtz-diorite? (20% chl) in QP matrix - resembles a migmatite	590		50 40x3 45 70x3 15 60x10 60x3 30	1/8 1/20x3 1/8 1/10x2 3/8 1/20-1/10x10 1/8+1/2+1/10 1/4	qtz-chl-cp qtz-chl-pl qtz-py(cp)(chl) qtz-chl-ser py-cp x 3 qtz-cp-blb qtz-chl-py x 10 qtz-chl-py-cp x 3 qtz-chl-py-(cp)	2%		587	93	58	85102	35	.031		.16
						598	? Ox te.	(587-598') fine grained Ox Texture QUARTZ PORPHYRY	600		30 45 70 x 6 35-45 x 9 50 60	1/4 1/4 hte-1/20x6 hte-1/10x9 1/10x2	qtz-chl-py(cp) qtz-chl-pl(cp) qtz-chl-py x 6 qtz-chl-py x 9 qtz-chl-py(cp) x 2	2%		597	95	83	85103	12	015		14
						607		(598-607) Same as above EOH			70x3 60 70 70	1/10x3 1/8 1/10 1/2	qtz-chl-py-cp x 3 qtz chl-cp qtz-chl-pl qtz-py	1%		607	90	60	85104	15	008		16

GRID

GIBRALTAR MINES LTD.

HOLE No. 82-22
SHEET No. 1 of 10

LOCATION: SAWMILL	BEARING: 0°	LATITUDE:	CORE SIZE: N.Q.W.	LOGGED BY: G.D.B.
DATE COLLARED: April 27, 1982	LENGTH: 607'	DEPARTURE:	SCALE OF LOG: 1" = 10'	DATE:
DATE COMPLETED: April 29, 1982	DIP: -90°	ELEVATION: ~ 3104'	REMARKS:	

OX. DEPTH 0
SUP. DEPTH 0

Qtz.	Plag.	K-Spar	Mafic	Texture	Hardness	ROCK TYPES & ALTERATION	∠ to Core Foliation	Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	Estimated % Pyrite	Remarks	Footage Blocks	Estimated Core Recovery %	RQD	Sample Number	% Cu	% Mo		Estimated Grade
						Casing to 67-feet 67								67							
						Fine-Med Grn		70	80 45	1" 2"	qtz-chl-ep-py qtz-chl-ep-py	1%	No limonite			66					
15% ? 20?	50-60?	?	chl 25			Diorite (67-230) tex ranges between porp to seriate with large (1/20-1/10) pheno's	ND	80	70+60 70-60x3 45 60x3 50+70 70+40	1/10x2 hlex3 2" 1/10-1/20x3 1/8x2 1/10+1/4	qtz-chl-carb-py x2 py x3 qtz-chl-carb-py zone qtz-py x3 qtz-chl-py x2 qtz-chl-py x2	1.5%		77	95	55	84995	.03	.002		05
						of feldspar with qtz inclusions in a chl. rich fine grain ground mass - This is prob a meta-andesite	ND	90	50x2 45x2 70 45 45 10x2 90 10+60 40 10x2	1/8x2 1/4+1/6 1" 20" 1/4 1/4x2 1" 1/4+1/10 1/10 3"+6"	qtz-chl-carb-py (cp) x2 qtz-chl-py (cp) x2 qtz-chl (py) chl-(carb)-py zone qtz-chl-py (cp) ((Mo)) qtz-chl-py (cp) x2 chl-py qtz-chl-py x2 qtz-carb-py-cp qtz-chl-py (cp) + qtz-chl-ep-py	3%		87	95	60	84996	.16	.020		.12
						-feldspars are saus alt'd. - bands and segregations of qtz-feldspar up to 1" thick occur throughout this zone	ND	100	40 40+50 10+40 20+30 30 90	1/20 2" 4 1/2 1/10x2 1/8+1/20 1/2 1/2	qtz-chl-py qtz-chl-py x2 qtz-chl-py x2 qtz-chl-py x2 qtz-chl-py chl-pied (py)	3%		97	95	80	84997	.03	.002		.08
						[illegible] zone - coarse grn seg of qtz (10%), spar 80% + chl 10%	ND	110	80x2+30 60-70x3 60 60 70	1/10x2+1" qtz-chl-py x3 2 1/2" 2" 2"	qtz-chl-py(cp) x2 + qtz-chl-carb 1/10x3 ep-pied-chl br zone chl-carb-py zone chl (py) zone	2%		107	95	85	84998	.03	.002		05

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-22
SHEET No. 2 of 10

ROCK TYPES & ALTERATION: Oli.	Pleo.	K-Spar.	Mafic	Texture	Hardness		∠ to Core / Foliation / Alteration	GRAPHIC LOG: Footage	Structure	Vein ∠ 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
						base zone ~50% chl + ~50% spar	NA			80 80 45 60 70+30x4 45 80x3 5 80x2	2" 1/4 1/4 2" 1/8-1/10x4 1/4 4"+2.5"x 1/2 1/2 + 1/20	qtz-chl-carb qtz-chl-carb-py-cp-Mo qtz-chl-py (cp) qtz-ep-chl-(py) qtz-chl-py x3 qtz-chl-py (cp) qtz-spar zone qtz-chl-py qtz-chl-py x2	2%		117	95	82	84999	.05	.003		10
							ND	120		80 x2 70-80 x 5 80 70 80 5 80 80 30?	2" + 1" 1/16 x 5 12" 1" 2" 1" 1/4 1" 30"	qtz-spar x2 chl-py x5 qtz-chl-carb-py zone qtz-chl-py qtz-chl-carb-py-cp-Mo qtz-pied-cp qtz-chl-py (cp) qtz-spar-Tour. qtz-ep-pied.-chl-py ((cp)) bo zone	3%		127	95	78	85000	.09	.012		15
							ND	130		76 3x3 ? 70 5+40x2 70-80x5 20 80	1/4 1/20x3 8" 3/4 1/20x3 1/20x5 1" 1"	qtz-chl-py (cp) chl-pyx3 qtz qtz (chl)-py qtz-chl-pyx3 chl-pyx5 qtz-chl-py qtz-spar-Tour.	3%		137	96	85	85001	.07	.002		.08
						Segregations to course grn "white" diorite (~5-10% chl.)	ND	140		5x4 +30-40x10 80 5 60 70	1/8x4+1/10x10 1/2 1/8 3" 1/2	qtz-chl-py qtz-chl-py qtz-chl-py chl-py qtz-carb-py-cp	3.0%		147	94	76	85002	.06	.002	X	.10
							ND	150		70 60-80x5 50x3 30 80 60 80x4 80x3 80x4+5	1" 1/20x5 1/20x2 10" 1/4 1/20 1/2+1/10x2 1/10x3 1/2+1/10x4	chl-py (cp) qtz-chl-py x5 qtz-chl-py (cp) x3 qtz-chl-carb ((py)) zone qtz (chl)-cp qtz-Mo qtz-chl-(py)(cp) x 4 qtz-chl-cp-py x3 qtz-chl-py ((cp)) x5	3%		157	95	50	85003	.11	.013		20
								160		30 5-20x4 60 30 35+50 40+50+60x5 40 40+60x4	1/4 1/10x4 2" 1" 1/20x2 1/10x2+1/10x5 1/8 1/8-1/4 x 5	qtz-chl-carb-py qtz-chl-py x4 qtz-ep-py qtz qtz-chl-py x2 qtz-chl-py ((cp)) x 7 qtz-chl-py (cp) qtz-chl-carb-py ((cp)) x5	3.5%		167	95	70	85004	.09	.011		.14
								170														

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-22
SHEET No. 3 of 10

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Mafics	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 Blasted	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						170 – 230 ft becomes sl. finer grn with incr in chl to 35%	ND		180		80 + 30 x 3 20 80 x 3 50 x 3 80 70 + 80 80 + 50 40 40 x 3 50	¼ + ½ x 3 1/20 ½ + 1 x 2 1/10 x 3 ½ ¼ x 2 ¼ x 2 10" 1/10 x 3 12"	qtz-chl-py x 4 qtz-chl-py-cp qtz-spar qtz-chl-py x 3 qtz-tour. qtz-chl-py qtz-chl-py-cp x 2 qtz-chl-py zone qtz-chl-py x 3 qtz-(chl)-(py)-cp	2.5 %	def ¼" equiv cp	177	95	83	85005	.22	003		.25
							ND		190		70 20 70 45 + 60 70 60 + 70 80 60 35-45 x 6 45	1" 1/10 ¼" 1/10 x 2 ½ 1/10 x 2 ½ 2" 1/8 - 1/20 x 6 12"	qtz-cp qtz-chl-py qtz qtz-chl-py x 2 qtz-cp (cp) qtz-chl-py x 2 qtz-cp (tour) qtz-cp-chl-py qtz-chl-py qtz-chl-carb-py (cp)-sphal	3 %	← should get Au Assays	187	95	75	85006	.07	.006		.12
							ND		200		45 + 30 + 10 60 x 10 40 x 2 60 70 x 4 80 + 25 40 80 x 2 80 x 2 35	¼ + 1/3 + 1/10 ½ u-hle x 10 1/10 x 2 1½ 1/10 + ¼ + 1/8 x 2 ½ x 2 2" ½ + 1" x 2 2 x 2 3"	qtz-chl-py (cp) x 3 qtz-chl-py (cp) x 10 qtz-chl-py (cp) x 2 qtz-chl-py (cp) qtz-chl-py (cp) x 4 qtz-carb - cp + qtz-chl-py (cp) qtz (chl) - py (cp) chl-py (cp) x 3 qtz-spar-py qtz-chl-py (cp)	3.5 %		197	95	83	85007	.12	002	½	20
							ND		210		30 + 80 x 2 45 + 70 30 x 2 30 x 2 30 30 x 2 70 x 3 + 30	2-3" x 3 ½ x 2 1/8 x 2 ⅛ + ½ 6" 1/8 x 2 ½ x 3 + ¼	qtz-spar x 3 qtz-chl-py-cp x 2 qtz-chl-py x 2 qtz-chl-py ((cp)) qtz-chl-carb-py qtz-chl-carb-py qtz-chl-py + qtz-py (cp)	4 %	← blue patches in qtz vein	207	96	70	85008	.08	003		20
							ND		220		70" 35 + 50 40 20	8' 1/10 x 2 ¼ ½	qtz-cp-chl-carb-py (cp) bx zone - clots of cp in a swirled chl-rich matrix cut by qtz-carb veins qtz-chl-py (cp) qtz-chl-py (cp) qtz-chl-carb-py ((cp))	4 %	← occasional tour 1" frags	217	97	70	85009	.11	004		.20
							20 Mod		230		30 x 3 70 30 + 80 90 45 + 80 x 3 60 40 x 4 30? 20 70?	½ x 3 3" 1/10 x 2 3" 1/10 x 4 1½ 1/20 - 1/10 x 4 2" 3" 21"	qtz-chl-py (cp) x 3 qtz-chl-garnet-mag-py (cp) qtz-chl-py x 2 qtz qtz-chl-py x 4 qtz-chl-carb-py qtz-chl-py x 4 qtz-chl-carb-garnet-py (cp) qtz-chl-cp (py) qtz-carb-chl-py	4 %		237	97	50	85010	.09	.004		.15

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-22
SHEET No. 4 of 10

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 Discs.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
Oil.	Pleo.	K-Spar.	Mafic	Texture	Hardness																
						FINE GRN DK GREEN META-ANDESITE ~ 60 % chl. (230 - 241) - dense rx with qtz-carb pods & lenses	70-80 Str.	240	45 45-55 x 10 35 x 2 55 x 4 35-55 x 15 35 x 2 30+70 50-60 x 10	1/4 1/10 x 10 1/4+1/2 1/8 x 2+1/4 x 2 1/20-1/10 x 15 1/4 x 2 1/4 x 2 1/20-1/10 x 10	qtz-carb-chl-py (cp) qtz-chl-carb-py x 10 qtz-(chl)-carb-py (cp) x 2 qtz-chl-carb-py (cp) x 4 qtz-chl-carb-py (cp) x 15 qtz-chl-carb-py (cp) x 2 qtz-chl-carb-py (cp) x 2 qtz-chl-py	5 %		237	97	80	85011	16	006	Y	25
						carb pods & lenses			45 40	3/8 1/2	qtz-chl-py (cp) qtz-tour.										
						FINE GRN. DIORITE (meta andesite) - same as 170-230	40-80 Str	250	25-40 x 3 30 5+15+50+2 25x2+40x2 40x2 45 90	1/4 x 4 3" 1/2 x 4 1/4 x 2 + 1/10 x 4 1/4 x 2 1" 1/8	qtz-chl-carb-py (cp) x 4 qtz-chl-carb-py (cp) qtz-carb-py-cp x 4 qtz-chl-py (cp) x 6 qtz-chl-py (cp) x 3 qtz-chl-py (cp) qtz-chl-bx-py qtz-tour.	9 %		247	96	78	85012	25	003		.30
						but more complex with intense shear zones and rapid variations in gen size, banded zones and bx zones - original rx often difficult to recognize	50 Str	260	20 45 60 45 20 40 x 10 60 5 20 5 50	1" 3" 1/4 1/2 1/4 1/20 - 1/10 x 10 1" 1/2 - 1" 1/4 1/4	qtz-tour. qtz-chl-py qtz-tour-carb-py (cp) qtz-chl-py-cp qtz-chl-carb-py (cp) qtz-chl-py (cp) qtz-chl-carb-py-cp qtz-py (cp) qtz (chl)-cp (py) qtz-py (cp) qtz-chl-carb-py (cp)	9 %	~ 1/2" eg : cp	257	93	40	85013	45	008		30
						rx often difficult to recognize	35-50 Str	270	20 35-50	30" 13'	qtz-chl-carb banded zone (py) banded qtz-chl-carb-py-cp zone	10 %		265	85	45	85014	.71	007		40
							50 - 60 Str	280	? 5-60 cren	3' 3'	chl-cp (py) ((cp)) zone banded chl-qtz-carb-(py)(cp) zone	6 %		275.5 278	91 97	35	85015	.18	.003		20
								290	50 x 6 50 x 3 35-40 x 5 80 45 x 4 80 ? 80	1/6 + 1/20 x 5 1/4 + 1/8 + 1/10 1/20 - 1/10 x 5 2" 1/4 + 1/10 x 3 8" 6"	qtz-chl-py x 6 qtz-chl-py x 3 qtz-chl-py x 5 qtz-chl-py qtz-chl-carb-py qtz-py (massive) chl (cp) zone	9 %		287	78	45	85016	.12	.011	X	18

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-22
SHEET No. 5 of 10

OX. DEPTH _____
SUP. DEPTH _____

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Mafics	Texture	Hardness		∠ to Core: Foliation, Alteration	GRAPHIC LOG: Footage	Structure	Veins: ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	REMARKS	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
						299	50 wx	300		90 50 50 x 2 45 x 2	1/8" Y/10 x 3 Y/8 + Y/10 2'	chl-py chl-py qtz-chl-py x 3 qtz-chl-carb-py (cp) x 2 qq (bx)	2%		293 297	52 52 78	10	85017	09	005		.10
						EP BRECCIA UNIT (299 - 337) clots and lenses of ep or ep-spar in swirled chl-rich matrix. Frags vary from Y/16 - 1"	?	310		50 x 2 60 x 2 50 x 2 40 45 x 6 30 x 3 60 x 4	Y/8 + Y/10 Y/10 x 2 Y/10 x 2 1/10 Y/20 - Y/10 x 6 Y/10 x 3 1/10 x 4	qtz-py - 1/2" ep envelope x 2 qtz-chl-py x 2 qtz-chl-py (cp) x 2 qtz-chl-py qtz-chl-py (cp) x 6 qtz-chl-ep-py x 3 qtz-chl-py x 4	3%		302 307 -	97	66	85018	05	005		.12
						dia - grade to normal foliated rx .: host rx of	70 Mod	320		45 x 5 50 60 x 2 50 x 2 40 45 x 2 50 45 x 3 30 45 x 6	Y/10 - 1/20 x 5 Y/8 1/4 x 2 Y/8 + Y/10 2" 1/10 x 2 8# 1/8 + Y/10 x 2 1/8 Y/10 x 6	qtz-chl-py x 5 qtz-chl-py (cp) qtz-chl-py (cp) x 2 qtz-chl-py x 2 qtz-chl-py (cp) ((H2O)) chl-cp x 2 qtz-chl-carb (cp) qtz-chl-py (cp) qtz-chl-py (cp) qtz-chl-py (cp) x 6	3%		317	97	45	85019	20	017		15
						This bx unit appears to be a border phase diorite with ~ 20% fine qtz.	70 Mod	330		40 x 5 80 40 x 6 35 x 2 45 x 2 50-60 x 4 50 x 3 45 x 3	Y/20 - Y/10 x 5 2" Y/20 - Y/10 x 6 3/8 + 1/2 1/4 x 2 Y/8 + Y/10 + Y/10 x 2 Y/10 x 3 Y/20 x 3	qtz-chl-py x 5 qtz qtz-ch-py ((cp)) x 6 qtz-chl-py + qtz-py qtz-chl-py (cp) x 2 qtz-chl-py (cp) x 4 qtz-chl-py (cp) x 3 qtz-chl-py x 3	4%		326	80	50	85020	10	010	X	15
							50 Mod	340		45 40 x 4 70 70 40 x 5 50 x 2 70 70 x 3 70 x 5 45 x 2	1/8 Y/10 x 4 2" 1/4 Y/20 x 5 1/4 x 2 1/10 x 3 Y/8 + Y/10 x 5 1/4 x 2	qtz-chl-py qtz-chl-py x 4 qtz-carb-chl (py) qtz-chl-py (cp) qtz-chl-py x 5 qtz-chl-py - cp x 2 qtz-chl-py (cp) x 3 qtz-chl-py (cp) x 5 qtz-chl-py (cp) x 2	4.5%		336.5	95	60	85021	13	006		.20
						QUARTZ PORPHYRY (337' - 565') pale grey rx with 20% qtz phens in aphanitic swirled groundmass	70 Mod	350		15 x 10 5 x 2 30 50 70 x 4 10 x 4 70	Y/20 - 1/10 x 10 1/8 x 6 1/2 1/2 1/10 x 4 1/10 x 4 1/10	qtz-py x 10 qtz-py x 6 qtz-py qtz-py (cp) qtz-py ((Mo)) x 4 qtz-py x 4 qtz-py - cp	3%		347	96	60	85022	07	004		12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-22
SHEET No. 6 of 10

OX. DEPTH _____
SUP. DEPTH _____

ROCK TYPES & ALTERATION: Oil.	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	REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							60 WK		360	60 x 3 40 45 x 2 60 40 40 40 x 2 40 5R x 2 45 x 3	1/10 x 3 1/4 1/10 x 2 1/4 1/4 1/4 1/10 x 2 30° 1/4 x 2 1/10 x 3	qt3 - py (cp) x 3 qt3 - py ((Mo)) ((cp)) qt3 - py x 2 qt3 - py (cp) qt3 - py ((cp)) qt3 - carb - py ((cp)) + 1' chl-ep halo qt3 - py x 2 qt3 - sur - py - cp qt3 - carb - py (cp) x 2 qt3 - py (cp) x 3	3 %		357	94	68	85023	15	.007		.15
						∴ in places the pmp grades to bx with incr chl and rounded fragr of med grn qt3. diorite	70 WK		370	60 x 2 40 - 45 x 2 60 45 x 4 45 x 6 50 x 2 50 - 35 x 10	1/10 x 2 1/8 x 3 1/10 1/8 - 1/10 x 4 1/8 + 1/20 x 3 1/8 x 2 1/20 - 1/10 x 10	qt3 - py (cp) x 2 qt3 - py ((cp)) x 3 qt3 - cp qt3 - py - cp x 4 qt3 - py (cp) x 6 qt3 - py x 2 qt3 - py x 10	3 %		367	108	99	85024	09	.013	X	.20
							70 WK		380	45 50 x 10 40 x 5 45 x 2 45 x 2 50 x 4 40	1/10 1/16 - 1/20 x 10 1/20 x 5 1/10 x 2 1/2 + 1/4 1/20 x 4 3/8	qt3 - py - cp qt3 - py x 10 qt3 - py (cp) x 5 qt3 - py ((Mo)) x 2 qt3 - py (cp) ((Mo)) qt3 - py x 4 qt3 - py (cp) ((Mo))	2.5 %		377	95	95	85025	06	.007		.15
							ND		390	60 x 2 40 40 - 60 x 6 30 40 x 3 30 + 3S 40 + 60	1/8 x 2 1/4 1/20 - hle x 6 1/2 1/10 x 3 1/4 x 2 1/20	qt3 - py x 2 qt3 - py qt3 - py qt3 - py (cp) qt3 - py x 3 qt3 - py - cp x 2 qt3 - py x 2	2.5 %		387	96	99	85026	09	.005		.15
							ND - 45 WK		400	40 x 2 35 45 45 45 x 5 50 - 60 x 5	1/10 x 2 3/8 1/4 1/4 1/10 x 5 1/8 + 1/10 x 4	qt3 - py x 3 qt3 ((Mo)) qt3 - py qt3 - py ((Mo)) qt3 - py x 5 qt3 - py (cp) x 5	1 %		397	94	70	85027	08	.004		.12
							70 WK		410	50 60 x 4 80 40 x 3 70 x 2 50 x 3 50 x 10 70	1/2 1/4 x 4 1/10 1/20 x 3 1/8 x 2 1/8 - 1/10 x 3 1/10 - 1/20 x 10 2"	qt3 - py qt3 - py ((cp)) ((Mo)) x 4 qt3 - cp qt3 - py (cp) x 3 qt3 ((Mo)) x 2 qt3 - py x 3 qt3 - py x 10 qt3 - sur - py - (cp) ((Mo))	2.5		407	99	91	85028	08	.009		.15

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-22
SHEET No. 7 of 10

OX. DEPTH _____
SUP. DEPTH _____

ROCK TYPES & ALTERATION: Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness		∠ to Core / Foliation / Alteration	GRAPHIC LOG: Footage	Structures	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	REMARKS	Footage Blasts.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
							70 wk	420		60 x 12 30 50 50 40-50 x 20	1/20-1/10 x 12 1/8 2" 1/8 1/20-1/10 x 20	qt3-py (cp) x 12 qt3-py ((Mo)) qt3-Ser-Py qt3-py ((cp)) qt3-py (cp) x 20	2.5		417 425	95 96	99	85029	09	004	X	.15
							70 wk	430		70 80 50 x 2 70 60 x 4 60 x 5 45 50 x 12 50 50 x 6	1/10 1/8 1/10 x 2 1/4 1/10 x 4 1/10 x 5 1" 1/10-1/20 x 12 1/10 1/20 x 6	qt3-cp qt3-py (cp) qt3-py (cp) x 2 qt3-(Mo)-(cp) qt3-py x 5 qt3-cp-py qt3-py-cp x 12 qt3-cp qt3-py x 6	2.5		427	97	89	85030	20	007		.20
							70 Mod	440		70 70 x 10 70-80 x 12 60 x 2 70 x 10 65	1/4 1/20 x 10 1/20-1/10 x 12 1/8 x 2 1/20-1/10 x 10 14"	qt3-(Mo)(cp) qt3-py x 10 qt3-py x 12 qt3-py (cp)((Mo)) x 2 qt3-py x 10 qt3-ser-py (cp)	2.5		437	96	70	85031	06	003		.12
						incr. chl-ser. -(20%) a banded effect between chl-ser zones, 1-4" wide, and pale grey qt3-porp. occurs	70 Mod	450		70 x 10 80 50-60 x 5 50-60 x 20 ? 70 x 25	1/20-1/10 1/4 1/10 x 5 hle-1/20 x 20 8" 1/10 x 25	qt3-py x 10 qt3-py qt3-py x 5 qt3-py x 20 qt3 qt3-py ((cp)) ((Mo))	.2		446.5	100	70	85032	04	005		.10
						at 450' - 485' -in places this banding grades to a bx with QD rounded frags	70 Str.	460		50 x 10 45 x 3 60 x 12 25 30 40 x 5	hle-1/20 x 10 1/8 + 1/4 x 2 1/10-1/8 x 12 1/8 3" 1/10-1/8 x 5	qt3-py x 10 qt3-py ((cp)) x 2 qt3-py (cp) x 12 qt3-py (cp) qt3-carb chl-py (cp) qt3-chl-carb-py (cp)	2.5		457	96	50	85033	04	003	X	.15
							70 Str	470		70 x 4 70 x 2 45 + 55 + 70 60 70 x 2 70 x 4	hle x 4 1/10 x 2 1/8 x 2 + 1/10 1/2 1/10-1/20 x 3 1/10 - hle x 6	qt3-py x 4 qt3-py (cp) x 2 qt3-py (cp) x 3 qt3-py qt3-py x 3 qt3-py x 6	1.5		467		67	85034	02	002		.12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-22
SHEET No. 8 of 12

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 Blasts	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness					45±2		1/16±2	qt3-py(cp)±2										
							80 Str			80±10		hlex10	qt3-py x 10				96						
										70±3		1/16x3	qt3-py x 3	1.5		477			85035	02	004		.10
										60±2		1/8±2	qt3-py x 2										
										5		1/4											
									480	80±70		1/16	qt3-py x 2					54					
										70 x3		hlex3	qt3-py x3				96						
										5		1/4	qt										
										50+60±2		1/20x3	qt3-py x3										
							70 Str			70		1/4	qt3-chl-py	2.5		487			85036	03	001		.10
										70-80 x 3		1/16x3	qt3-chl-py x 5										
										80+70		1/4+1/8	qt3-py-(cp) ±2										
									490	70-60 x 10		1/10-1/20 x 10	qt3-py x 10					80					
										5		1/8	qt3-py x				96						
										60+50+80		1/16x3	qt3-py x3										
										50		1/8	qt3-py										
							70 NW			50x3		1/20x3	qt3-py x3	2		497			85037	02	001		.10
										50		1/4	qt3-py										
										50+60+5		1/16x3	qt3-py x 3										
										50 x2		1/16x2	qt3-py x2										
										60x3		1/20 x3	qt3-py x3										
									500	45±2		1/20 x2	qt3-py ±2				97	95					
										45+60+50		1/20x3	qt3-py x3										
										45±2+63		1/20x3	qt3-py±3										
							70 WK			45-55x12		1/20x12	qt3-py±12	1.0		507			85038	02	004	X	.05
										35+45		1/20x2	qt3-py±2										
									510	45+50±4		1/10-1/20±5	qt3-py x 5				97	98					
										70-75x6		1/10-1/20x6	qt3-py x6										
										70±2		1/4+1/8x2	qt3-py(cp)±2										
							70 WK.			45x2+60+65		1/10x4	qt3-py x 4	2.5		517			85039	.06	004		.15
										50		1/4	qt3-py(cp)										
										60+35+45		1/4+1/10x2	qt3-py(cp)x3										
									520	40-35x8		1/20x8	qt3-py x8				93	95					
										45±3		1/2+1/2+1/4	qt3-py(cp)((Mo))±3										
										30+80+70		1/4+1/8+1/10	qt3-py x3										
										40x3+80		1/10x3+1/4	qt3-py±4										
										45±2		1/20±2	qt3-py(cp)±2			527			85040	06	002		.10
							ND			75		1/4	qt3-chl-py	2.0									
										40 x4		1/10x4	qt3-py±4										
										60		1"	qt3-py(cp)										
									530	30±4+50±2		1/10±5	qt3-py±5					97					

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-22
SHEET No. 9 of 10

OX. DEPTH _____
SUP. DEPTH _____

ROCK TYPES & ALTERATION								∠ to Core Foliation	GRAPHIC LOG Foliation Alteration	Footage	Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	REMARKS	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
Qtz.	Plag.	K-Spar.	Mafic	Texture	Hardness																			
								ND		540	50 x 3 40+50+30 50 x 5 5 + 40 x 2 45 40 x 4 45	¼ + ⅛ x 2 ⅛ + ¼ x 2 ⅛ + ⅛ x 4 ¼ + ⅛ x 3 ⅛ ⅛ - 1/10 x 4 ⅛	qtz-py x 3 qtz-py x 3 qtz-py x 5 qtz-py x 4 qtz-py qtz-py qtz-py	1.5		537	97 1 5..	..	85041	04	002		10
								ND		550	40 x 3 80 45 70-60 x 3 5+30 x 4 45 x 5 40+45+70 x 3 30+40+5	⅛ x 3 ⅛ ⅛ ⅛ x 3 ⅛ x 5 ⅛ x 5 ⅛ x 5 ⅛ - ⅛ x 3	qtz-py x 3 qtz-py (cp) qtz-py (cp) qtz-py x 3 qtz-py (cp) x 5 qtz-py x 5 qtz-py x 5 qtz-py x 3	1.5		547	100 100	99 95	85042	05	002	y	10
								70 WK		560	40 x 2 + 45 x 3 50 x 3 35 + 40 + 80 30 x 5 40 x 4 45 2 6 70-80 x 8	⅛ x 5 ⅛ x 3 ⅛ - ¼ + 1/10 1/10 x 5 ⅛ x 3 + 1/10 ⅛ x 2 + 1/10 x 4 1/10 - 1/10 x 8	qtz-py x 5 qtz-py x 3 qtz-py (cp) x 3 qtz-py x 5 qtz-py x 4 qtz-py x 6 qtz-py x 8	2.0		557	97	90	85043	08	003		.12
								70 str.		570	45 60 x 4 30 45 + 30 x 3 70 x 2 30 x 2 80 x 2 70 x 12 70	½ 1/10 x 4 ½ 1/10 + 1/20 x 3 1/20 x 2 1/10 x 2 ⅛ x 2 blebs 3"	qtz-py qtz-py x 4 qtz-py (cp) qtz-py x 4 qtz-py x 2 qtz-chl-py x 2 qtz-chl-py x 2 chl-py x 12 qtz-ser-py (massive)	2.0 5.0	the ser. has bright green streaks which is not malachite	567	97 94	90 86	85044	06	004		.12
								70 str.		580	45 45 x 3 60 x 3 + 30 60 60-70 x 5 45-75 x 20 35 60 x 2 + 35 70 x 8	1/10 1/10 x 3 1/10 x 5 1/10 1/10 - ¼ x 5 ¼ - 1/20 x 20 ⅛ ⅛ x 3 ⅛ - 1/10 x 8	qtz-py (cp) (sphal.) qtz-chl-py (cp) x 3 qtz-chl-py (cp) x 5 qtz-chl-py-cp (sphal) qtz-chl-py (cp) x 5 qtz-chl-py ((cp)) x 20 qtz-py (cp) qtz-py (cp) x 3 qtz-chl-py ((cp)) x 8	5.0		577	98	84	85045	07	006		.20
								60 str.		590	60 x 10 45 x 4 + 50 65 60 70 x 5 80 60-75 x 8 70	1/10 - ⅛ x 10 1/10 x 5 3" 3" ⅛ - 1/20 x 5 2" 1/10 - 1/20 x 2 1"	qtz-chl-py x 10 qtz-chl-py (cp) x 5 chl-py (cp) zone qtz-ser-py (cp) zone qtz-chl-py (cp) x 3 qtz-ser-py (cp) qtz-chl-py x 8 qtz-chl-py (cp)	5.0	most sulfides are confined to dk phase as distinct veins as described or as dissem'd and blebs along foln.	587	94	94	85046	11	004		.18

MIXED RX UNIT QTZ-PORP & META-ANDESITE ?

a banded rx type similar to 450-485 consisting of alternation 1-3" qtz-porp and "andesitic" bands — the "andesite" is fine to med grn — the coarser grn type could be called a diorite or qtz-diorite — the dk bands often grades to act. bx.s

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-22
SHEET No. 10 of 10

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 Diesel.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
Dic.	Plag.	K-Spar.	Mafic	Texture	Hardness																		
							70 str		600		4r x5 80 60-70 x6 45 x3 70 x2 45 x2 30 45 x2 + 25 x2 80 x2 ?	⅛-½ x3 ½ ½-½ x6 ½ x3 ½ x2 ½ ½ x4 ½ + 2" 40"	qt3-chl-py (cp) x3 qt2-chl-py (cp) qt3-chl-py x6 qt3-chl-py (cp) x3 qt3-chl-py x2 qt3-chl-py (cp) x2 qt qt3-chl-py (cp) x4 qt2 chl (vug) chl-ep bx-diss py (cp)	5%		597	97		85097	09	004	y	20
						E.O.H. 607					5a 50+55 x2 45 x3 5a 45 x8	½ ⅛+¼+⅒ ⅒ x2 ¼ ⅛-⅒ x8	qt2-py (cp) qt3-chl-py (cp) x3 qt3-chl-py x3 qt3-py (cp) qt2-chl-py x8	3.5%		607	99	92		09	004		.15
																		90					

Bypassed

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-25
SHEET No. 1 of 7

LOCATION Sawmill Zone
DATE COLLARED May 4, 1982
DATE COMPLETED May 5, 1982
BEARING -
LENGTH 397'
DIP -90°
LATITUDE
DEPARTURE
ELEVATION
CORE SIZE N.Q. Wireline
SCALE OF LOG 1" = 10'
REMARKS Variable comp. meta-sed's to 211 – below that meta-andesite predominates.
LOGGED BY G.D.B.
DATE June 18, 1982

ROCK TYPES & ALTERATION							GRAPHIC LOG									ASSAY RESULTS				
Etc.	Pleo.	K-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	Foliation Alteration Footage Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH 0 SUP. DEPTH REMARKS	Footage Discrip.	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
						Cased to 11'.		11						11							
						GRAPHITE SCHIST (11 – 63') pale green chert ??	80 sl crev	20				.5	weak limonite to 15'	15	40%	0%					.01
						a black fine grn rx with 1/10–1/2" qtz-carb bands + lenses – occassional chert bands up to 12" wide	80 sl crev	30			fine diss. py	.5		21 25 30	48% 70%	10%					.01
						Prob ~30% graphite	80 sl crev	40				.5		36	25% 31%	0%					.01
								50				.5		42.6 97	67%	0%					.01

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
10,585
NO.

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-25
SHEET No. 2 of 7

ROCK TYPES & ALTERATION							∠ to Core Foliation	GRAPHIC LOG			Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Blocks	Estimated Core Recovery %	RQD	ASSAY RESULTS				
Qtz.	Plag	K-Spar.	Mafic	Texture	Hardness			Foliation Alteration	Footage	Structures									Sample Number	% Cu	% Mo		Estimated Grade
						70 str								0		57	20%	0%					.01
									60								32%						
						63										63							
						BANDED QTZ EP-CHL RX ~ 20% chl and 70% cg-qtz-sper 80 str			70					0		67	70%	15%					.01
						as bands cutting chl-rich matrix - prob a volcano-clastic sed of dacitic comp 77	80 str							0		71	92%						
																77	20%	0%					.01
						FINELY BANDED			80														
						QTZ-CHL-CARB ZONE (77-136) a very complex rx with 1/10-1/4" laminae of varying	5-90 str cren							0		84	60%	10%					.01
									90							90	45%						
						compositions - chl-rich bands are most common (30-80% of rx) which alternate with qtz-carb-hem, qtz-carb-graphite or qtz-carb-bands.	5-90 cren							0		91	40%	3%					.01
									100							99	40%						
						-the chl. is gen-bright green -occasional 1/2-4" zones of qtz-carb-ser -meta calcareous siltstone?	5-90 sl cren							0		102	10%	13%					.01
																107	6%						
									110							109	40%						

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-25
SHEET No. 3 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	ESTIMATED % PYRITE	OX. DEPTH / SUP. DEPTH / REMARKS	Footage Discr.	Estimated Core Recovery %	RQD	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estimated Grade
Oil.	Plag.	K-Spar.	Mafic	Textures	Hardness																		
							90 Str		120		60	12"	qtz-chl (def vein)	0		117	92%	10%		-			101
							25-90		130		50	14"	limestone band	0		123	87%	3%					01
						136 LIMESTONE	80 Mod		140		60	2" 30°	qtz-chl qg-bx	0	pass fault contact	128 136.6		2%					01
						(136 – 181) highly variable composition but over 50% carb. grades from white to dk grey to	80 Mod		150					0		146.6		7%					01
						chl.-green – contains numerous bands of chl-rich material as well as qtz-carb Grades to qtz-chl-carb, same as (77-136) with	70 80 Mod		160					0		156 160	18% 60%	3%					01
						depth. – occasional isotropic parting.	70-80 Mod		170					0		167 170	58% 40%	0%					01

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-25
SHEET No. 1 of 7

ROCK TYPES & ALTERATION (Ore, Pla., 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 Discrs.	Estimated Core Recovery %	R Q D	ASSAY RESULTS: Sample Number	% Cu	% Mo		Estim. Ore
	80 Mod		180					0		177	62%	0%					.01
FAULT ZONE (181'-187')	80-90 Mod				?	6'	qg-bx	0	Fault Zone Contact	1836	25%	0%					.01
										187	25%						
FINE GRN			190		90	½	qt3-ep.			189	80%						
MED-GREEN Rx					80	½	qt3-chl										
s1 calcareous - very finely banded with traces of ep blebs in q3-carb matrix ½-1/20" wide	80-90 Mod				80	½	qt3-chl	0		197	98%	13%					.01
			200			2"	qt3-chl (def vein)				90%						
- prob. fine volcanoclastic sed (187-211)	80-90 Mod				45	16"	qt3-ep			202							
					40	1'	qt3-ep				82%						
					80	12"	qt3-ep-carb		scarn?	206		16%					.01
					50 x2	3'+6"	qt3-ep x2	0			82%						
			210							210							
DENSE DK. GREEN CHL-CARB Rx (211 - 397)	80 Mod							0	grad. contact		65%	16%					.01
finely banded with			220							217							
											75%						
1/20-1/10" carb-rich laminae in chl. matrix	80 Mod							6		221							
- prob a andesitic volcanic rx, or volcanoclastic sed.											95%	45%					.01
			230		80	2"	qt3-carb-chl			227							
					70	2"	qt3-ep										

GRID

GIBRALTAR MINES LTD.

HOLE No. 82-25
SHEET No. 5 of 7

Footage	Rock Types & Alteration	∠ to Core Foliation	Veins ∠ to Core Axis	Width of Vein	Mineralization	Estimated % Pyrite	Remarks	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo	Esti... ore
240	rx is essentially light colored bands of qtz-carb or qtz-ep in a chl-rich matrix which gen. makes up 60% of rx.	90 Mod	5 80 ?	1/4 3" hte	carb-hem qtz-chl hem	0		235	93%	20%				.01
250		90 Str	80 80 90	1/2 1/2 13"	qtz-carb qtz-carb limestone	0		245.5	99%	22%				.01
260		80 Str	80 70	1" 2"	qtz-ep qtz-chl-carb	0		256	97%	7%				.01
270		90 Str	80	6"	bx(qq)	0		261 265	99% 52% 92%	0%				.01
280		70-90 Str	60 70 70	1" 1" 2"	qtz-ep qtz-carb-hem qtz-carb-ep-hem	0		273	85%	7%				.01
290		80 Str	80	10"	qtz-ep-carb	0		281 287	75% 25%	7%				.01

OX. DEPTH
SUP. DEPTH

GRID _____

GIBRALTAR MINES LTD.

HOLE No. KK 25
SHEET No. 6 of 7

ROCK TYPES & ALTERATION: Colr.	Plag.	K-Spar%	Matrix	Texture	Hardness		∠ to Core Foliation	GRAPHIC LOG: Foliation Alteration	Footage	Structures	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
							70-90 Str.							0		293	70%	0%					.01
									300							297							
							70 Str				70 x S	hie x s	graphite x s	0		303	71%	4%					.01
									310		70	30"	non vous hem rie partings			309	75%						
							70 Str				S+90	1/4-1'	qt3-carb x2	0		317	92%	7%					.01
									320		S	1/4	carb				70%						
							70-80 Str				80	6"	qt3-carb-chl ((py))	< 0.5		324	97%	10%					.01
											3	1/10	carb-hem			327							
									330		90	6"	qq										
											45	1/4	qt3-carb										
												2"	qt3-carb-ep				95%						
											50	1/2	qt3-carb	0		333		22%					01
									340		50	8"	qt3-ep				97%						
							340-350H width of bands are increasing - approaching a typical chl-carb banded rx						} fine diss py	<0.5		343	96%	20%					.01
									350														

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-25
SHEET No. 7 of 7

OX. DEPTH _____
SUP. DEPTH _____

ROCK TYPES & ALTERATION	∠ to Core Foliation	GRAPHIC LOG Foliation Alteration	Footage	Silvering	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	REMARKS	Footage Blocks	Estimated Core Recovery %	R Q D	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated Grade
	70-80 Str		360		20	1/4	qq-hem	0		3335	95%	50%					01
	80 Str		370					0		364	97%	33%					01
	80 str.		380		60±40° 80	1/4 x 3	qt3-carb-chl x 3	0		374	93%	13%					01
	80-90 Str		390		5	1/8	hem-qq	0		384	95%	20%					01
	90 Str				5	hle	hem										
					65	2"	hem-ep-qt3										
					80	2"	qt3-carb										
					80	2"	qt3-chl ((cp))										
					80	1/2	qt3-mag										
					70 x2	1/2 x2	qt3-carb-chl x2			394		35%					
EOH 397					60	2"	qt3-chl			397	97%						

K.O. Bygrave

GRID______

GIBRALTAR MINES LTD.

HOLE No. 82-24
SHEET No. 1 of 10

LOCATION: SAWMILL ZONE | BEARING: – | LATITUDE: | CORE SIZE: N.Q.W. | LOGGED BY: G.D.B.
DATE COLLARED: May 1, 1982 | LENGTH: 603' | DEPARTURE: | SCALE OF LOG: 1" = 10' | DATE: June 16-17, 1982
DATE COMPLETED: May 3, 1982 | DIP: -90° | ELEVATION: | REMARKS: From 30-313 rx is andesitic; from 313 to 564 it is predominately dacitic

OX. DEPTH 70
SUP. DEPTH –

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	Remarks	Footage Blocks	Estimated Core Recovery %	R.Q.D.	Sample Number	% Cu	% Mo	Estimated Grade
Casing To 31-feet		30												
EPIDOTE-CHLORITE BRECCIA (31-54) a dense rx with 30-60 o/o clots of ep-rich material in a fragmented and	70 Str	40	70 5 80 80 50 60 45 80-60 x 4	2" hle 1/4 1/4 3/3 1/2 1/10 1/2-1/2 x 2	qtz-chl-py (cp) lim-mal qtz-chl-ep (vug) chl ((mal)) chl-ep qtz-chl-carb-mal chl-carb (cp) chl-carb-mal-(cu)(co) x 4	.5%	Weak limonite to 70'	31 33	90%	[illegible]				.15
swirlled ground mass of chl ... ep and carbonate. The ep clots are rounded and 1/2-2" dia – The ground mass is complex and difficult to describe – prob	70 Mod	50	80 60 5x4+90 70+45	1/4 12" 2" hle x 6 1/2 x 2	chl-carb (mag) qq-bx carb-mag lim x 6 carb-mag-chl	1.5% mag.		43 49	81% 9[illegible]%	[illegible]				.08
This rx represents a poorly sorted volcaniclastic pebble congl. – occasional 1" frags of qtz-porp. 54'			50 50 80 80 x 2	10" 1" 3 1/2" 1 1/2-2"	carb-mag-chl (3" mass mag) carb-mag qtz-chl carb-mag-chl x 2			52.0	100%					
BANDED EPIDOTE CHLORITE CARBONATE	70 Mod	60	50	2"	carb-mag	6% mag			8[illegible]%	77%				.05
ZONE (54'-74') same as above but sl. finer grn. and more intensely sheared.	70 Str	70	50 70	2" 14" 10"	qtz-chl qq-bx carb-mag	3% mag.		626 68	[illegible]5%	38%				.05

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 82-24
SHEET No. 2 of 10

Ox.	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
						74' Fine Grn QTZ - CHLORITE CARBONATE UNITS	70 Str		80		70 80 ?	4" 1" 2'	Carb-chl-mag qtz-chl qq-bx	.5% Mag		73 74 77	90% 50% 60%	15%		-			.05
						a dense dk green finely banded rx with occasional bands of ep-chl bx and bands of pale green siliceous rx – prob. a	60-70 Str		90		30-60	7"	qtz	0			100% 9?%	46%					.01
						fine grn volcanic sediment? (74'-105')	40 Str		100					0		92 97	100%	[illegible]					.01
						105 BANDED AND BRECCIATED CHLORITE-EPIDOTE	45 Str		110		40 5	1/4 1" 12" 2"	qtz-chl-carb ([illegible]) qtz-chl qq-bx qtz-chl.	0		103	97% 9?%	25%					.01
						(CARBONATE) ZONE (105'-169') Similar to (31'-54') but finer grn. - probably a layered volcano clastic sediment	45 Str		120		80 80	12" 2"	qtz-chl-ser (chl-ser in 1/2-1/8" ribbons) qtz-chl-carb	0		111 117	[illegible]%	[illegible]5%					.01
						- Some 1-10' bands of spar porp (i.e. 20% 1/10" spar phenos in dk green matrix) prob. represent individual andesitic volcanic flows + tuffs.	50 Str		130		? 50	30' 1"	qq(bx) qtz-carb	0		124½	[illegible] 67%	30%					.01

GRID _____ GIBRALTAR MINES LTD. HOLE No. 82-24
SHEET No. 3 of 10

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 Discr.	Estimated Core Recovery %	RQD	ASSAY RESULTS Sample Number	% Cu	% Mo		Estim. Grade
Clt.	Plag.	K-Spar	Mafic	Texture	Hardness																			
								60 Mod-Str		140		70 45	3" 6"	qtz-ep-chl qq	0		130.6 137	90%	75%		-			.01
								60 Mod		150		45 45 45	14" 2" 10"	qtz-ep-chl (py) zone qtz-chl qtz-ep-chl (carb) (py)	0.5	These are zones of almost massive	147		75%					.01
								40-60 Mod. Str.		160		60 40 60	20" 30" 10"	qtz-ep-chl-zone qtz-ep-chl - zone qtz-ep-chl- zone	0	ep cut by qtz-carb ve Less	157		65%					.01
								70-80 Mod-Str		170		45 80	30" 6" ½	qq qtz-chl qtz-carb	0	Sharp contact between these units	165 170+		70%					.01
								70 Mod		180					0		177		70%					.01
								70 Mod-Mod		190		70	6"	qtz-ep-carb	0		183	97%	75%					.01

PALE TO MED GREEN FINE GRD. UNIT (169-181) – a more siliceous unit - sl banding marked by trains of ep clots in chl. matrix

BANDED AND BRECCIATED CHLORITE - EPIDOTE CARB. UNIT

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 82-24
SHEET No. 4 of ____

ROCK TYPES & ALTERATION (Ox. / Plag. / K-Spar / Mafic / Texture / Hardness)	∠ to Core Foliation	GRAPHIC LOG Footage	Veins ∠ to Core Axis	Width of Vein	Mineralization	ESTIMATED % PYRITE	REMARKS (OX. DEPTH ___ SUP. DEPTH ___)	Footage Blocks	Estimated Core Recovery %	R Q D	Sample Number	% Cu	% Mo	Estimate Grade
Similar to (105-167') but contains some more siliceous zones (181' - 254') - banding tends to	70 Mod	200				0	Si-cons. zone 20% chl-ep 80% qtz+spar	193	90%					01
be due to trains of ep clots par. to foln. grey siliceous	70 wk.-Mod	210				0		200.6 / 204 / 207	92% / 94%					01
zone 80% qtz-spar (rhyolitic volc.?) some zones (1/10" chevrons in dk green	80 wk	220	80	2"	qtz-chl-(py)((cp))	< 5		[illegible] / 217	98% / 75%					02
matrix (andesitic volc.)	70 wk	230				0		224 / [illegible]	[illegible] % / 60%					01
ep-chl-bx zone	70 Mod	240	80 / 40	3" / 1	qtz-ep-carb / qtz-ep — very finely diss py	.5		[illegible]	85%					01
	80 wk	250	40 x3	hl x3	hem x3	0		44	78% / 97%					01

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-24
SHEET No. 5 of 10

ROCK TYPES & ALTERATION							∠ to Core	GRAPHIC LOG				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				
Oli.	Plag.	K-Spar.	Mafic	Texture	Hardness		Foliation	Foliation Alteration	Footage	Structure										Sample Number	% Cu	% Mo		Estimated Grade
																	251							
						254	50-70									Sharp contact between these units 70°								
						FINE GRN, MED GREEN SILICEOUS UNIT	WK								0			94%	80%					.01
									260								261							
						(254-281) similar to 169-181 ∴ prob a rhyolite volcanic - ~10-20% chl.	50-70 WK				5	3"	ep-carb ((py))	0			267	92%	70%					.01
						'spar porp. (andesitic vol)			270															
							70 WK-Mod								0		277	95%	80%					.01
									280															
						FELDSPAR PORP UNIT (mainly) (281-313') ⅛" rounded saus-spar phenos in dk	60-80 WK				5-30	1/4"	ep-carb-qtz-3ons intense 1/10-1/8" ep stkwks in leucocratic ground mass	2%	Sharp contact ~70°		94%	98%					.10
												20"												
												5'	ep-chl-garnet-py scarn											
						chl-rich matrix — occassional chl. phenos — originally a andesitic vol. - with incr. folg grades to a banded	80 WK				80	1/10	chl-carb-py	5%			297	100%	99%					.03
											60x2	1/20x2	chl-carb-py											
									300		70x3	1/10-1/20x3	chl-ep-carb-py x3											
						chl-qtz-carb rx. at 310-320 with incr py - This unit contains ~60% chl.	45 str-Mod				30x4	1/20x4	qtz-chl-py x4	1%			307	98%	83%					.05
											40	1/10	carb-chl-mag (cp)											
											40x3	1/10x3	chl-carb-(cp)(py)x3											
											40	1/2	chl-carb-py ((cp))											
									310		45x2	1/20x2	chl-carb-py x2											

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-24
SHEET No. 6 of 10

ROCK TYPES & ALTERATION								GRAPHIC LOG											ASSAY RESULTS				
Oil.	Pleo.	X-Spar.	Mafic	Texture	Hardness		∠ to Core Foliation	Foliation Alteration	Footage	Structures	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
						313					50 ×2	1/20 ×2	chl-carb-py ((cp)) ×2				98%						
											50	20"	chl-carb-(qt3)-py(cp) 30rc		sharp contact- 50°								
						BANDED QTZ-CARBONATE-CHLORITE ZONE (313-508)	50 str to Cren				50	1/4	qt3-carb	1%		314.6		27%					.05
											20	1"	qt3-carb										
											60-70 ×4	1/2-1/4 ×4	qt3-carb ×4				65%						
									320		70	2"	qt3-carb										
						Contains ~ 20 % chl, ~20% iron carbonate and 60 % qt3-spar	50-60 Str				60	1/4	qt3-chl-carb			322							
											70 ×2	1/4 ×2	qt3-chl-carb ×2				67%	10%				.01
											70	1/2	qt3-carb	0		327							
						-prob an altered dacite			330		45	+"	qt3-chl (carb)			330	33%						
						- def lack of ep										332	45%						
						- veins shown are x-cutting fol'n - the rx is banded as well with qt3-carb laminae alternating	45 str to SI Cren				5	1/4	qt3-carb	0		337	70%	6%				.01
									340								60%						
						with chl-rich bands										341							
							70 str							0		347	70%	0%				.01
									350								50%						
											40	1/4	qt3-carb			351							
																354	80%						
							70-50 str.							1%				0%				.05	
												3/4	qt3-carb			358	60%						
									360		60	1 1/2	qt3-carb-py (cp)			360	75%						
																364	25%						
							30 St							0.5%		365	60%	0%				.01	
											60	1/10	chl-py										
									370		5%	hle	chl-cp				10%						

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-21
SHEET No. 7 of 10

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
							50 str.		380					0		373 374 377	20% 10%						01
							50 str		390		50	4"	chl-carb-py (cp)	3%		384 389	20% 18%						.20
							70 str		400		70	3"	qtz-carb	0		394 400	15% 40%						01
							5-80 str. Cren		410		70-50 80	18" 5"	qtz (ser)(carb) qtz-chl. (vug)	0		4056	69% 48%						.01
						Tex more bx'd than banded	5-90 Str. Cren & bx't		420		70 45 +70 70 70 x 2	2" 1/4 + 1" 1/2" 1/2" x 2	qtz-carb-chl-py qtz-carb-chl-py (cp) chl-py chl-py x 2	1.5%		416	99% 82%						.05
						with chl-rich material as a sussr'ted matrix around pale grey qtz-spar frags	5-90 Str & Cren		430		80	hle	chl-Mo (fine diss py along foln planes)	.5		423.6 426 430	75% 60%						.02

GRID ______

GIBRALTAR MINES LTD.

HOLE No. 82-24
SHEET No. 8 of 10

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 %	R Q D	Sample Number	% Cu	% Mo		Estimated Grade
bx. texture	50- 70 str	440	5 80 60 80	1/10 1/10 1/10 1/8	chl-py chl-py chl-py chl-carb-py } finely diss py in chl. matrix	.5		435 441	80% 87%	28%					.05
	50 str	450	70 50	1/10 1/20	chl-py chl-py } finely diss. py in chl along foln planes	.5		450	100%	27%					.05
chl-ep breccia	60 str.	460	30 60x4 ?	1/10 hlex4 36"	chl-ep chl-py chl-ep-bx(py)	.5		458	97%	42%					.05
	60- 45 str	470	60	1/4	qtz-carb-mag	0		467	92%	45%					.01
meta-andesite meta-andesite mainly 'spar porp meta-anaesite mainly 'spar porp	70 str.	485				0		473	90% 93%	53%					.01
meta-andesite	70 str	490	70	3"	mag-chl	3.0% mag		483 489	98%	33%					.01

GRID: _____

GIBRALTAR MINES LTD.

HOLE No. 82-24
SHEET No. 9 of 10

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 Diesel	Estimated Core Recovery %	RQD	ASSAY RESULTS Sample Number	% Cu	% Mo		Estimated
Ols.	Plag.	K-Spar.	Mafic	Texture	Hardness																		
						leucocratic rx	70-80 Str.		500			.24"	qtz-spar-ser zone	0		497	99%	15%					.01
						(-rhyolite ?) 508	80 Str		510			12"	qtz-spar-ser-bx	0		501.6 / 505 / 508	70% / 45%	0%					.01
						QTZ-SPAR BRECCIA UNIT subangular to angular frag's of pale grey-greenish aphanitic rx (rhyolite?)	80 Str		520	60	3" / ½ 12"	qtz qq-bx	0		516 / 521	50% / 45%	0%					.01
						from 1/10" - 6" dia in a dark green matrix - probably qtz-spar-chl. mixtures - frags make up over 80% of rx which is prob. of granitic composition - similar zones occur in the unit above but are not as distinctive, and continuous. (508' - 564')	80 Str.		530	80	¼	finely diss py (cp) in matrix	.5		527 / 532	35% / 82%	10%					.05
							80 Str.		540	80	1/10	chl-py finely diss	.5			97%	60%					.05
									550		8"	qq-bx py in chl. matrix	.5		542	94%	45%					.05

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 82-24
SHEET No. 10 of 10

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		Estimated Grade
Oil.	Plag.	K-Spar.	Mafic	Texture	Hardness																		
						def incr in chl and seus frags	80 Mod		560				finely diss py in matrix	.5		551.5	95%	50%					.03
							80 Mod									562	70%						
						BANDED AND BRECCIATED CHLORITE-CARB. -EPIDOTE ZONE (564'-591') Same as (105-169)	70-80 Mod		570	80° 60 x2 50 50 70	hle 1/4 + hle 1/8 1/8	chl-cp qtz-carb-cp x2 qtz-carb-cp chl-carb-cp	finely diss cp	<.5		564	97%	56%					.15
							70-80 Mod		580	80 x2 80+40x2 40x2 45 10 20	hle x2 1/8 x3 1/20 x2 2" 1" 2"	chl-cp x2 qtz-carb x3 carb-chl-cp x2 qtz-carb (vug) qtz-chl-carb qtz-carb (py)	fine'l diss	<.5		574	88%	53%					.10
							70 Mod		590	20 x2 30 x3 80	2" x2 hle x2 hle	qtz-carb (vug) x2 qtz-carb-py-cp x3 chl-cp	py (cp)	<.5		580	90%	62%					.08
						QTZ-CHL-CARB UNIT (591-603) same as (313-508')	70 WK		600	10 80 45 40 5+80 70 x3	1/2 1/10 1/8 1/20 1/10 x2 1/20 x2	qtz-py chl-py qtz-chl-carb-py (cp) qtz-cp qtz-cp-cp x2 chl-py x3		.5		587	98%	73%					.12
						EOH 603'	ND			20 70	1/20 1/4	qtz-py qtz-tour		<.5		597	99%	66%					
																603							

36,000 N

34,000 N

32,000 N

30,000 N

28,000 N

26,000 N

24,000 N

44,000 E

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

BUD 6

BUD 8

BUD 5

HA I

VAL 23

VAL 21

VAL 24

VAL 26

HAS 13

HAS 16

HAS 18

HAS 14

PAUL I

BUD 7

VAL 5

TIM I M.C.

VAL 19

VAL 22

HAS 12

DOUG I M.C.

CUISSON LAKE

RYAN I M.C.

VAL 7

VAL 20

AARON I M.C.

82-22

82-23

VAL 27

82-21

FLO 4 FRAC.

VAL 9

FLO 3 FRAC.

VAL 10

VAL 11

COLE I M.C.

BARB I M.C.

BRUCE I

GEOFF I M.C.

82-24

VAL 12

SAWMILL GROUP

VAL 45

VAL 14

VAL 47

JANIS I M.C.

VAL 49

82-25

BRENT I M.C.

SHERIDAN I

INDEX MAP

121°15'

RIVER

FRASER

HWY 97

x Gibraltar Mines

▲Granite Mountain 52°30

Cuisson Lake

x Sawmill Group

McLeese Lake

Scale: 1:250,000

Miles 0 2 4

Km 0 4

Control: chain, compass and topographic map

◆ DIAMOND DRILL SITE

Scale: 1:4,800

Feet 0 400 800

Meters 0 100 200

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
10585
NO.

DRAWN MRS	SCALE 1"=400'	GIBRALTAR MINES LTD. (N.P.L.)	DIAMOND DRILL HOLE LOCATIONS
TRACED	DATE 25/06/82	SAWMILL GROUP	FILE NO. FIGURE 2.
APPROVED	CHECKED		