DIAMOND DRILL REPORT

ON THE

SAWMILL ZONE

Cariboo Mining Division
93 B8

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

OWNER AND OPERATOR

GIBRALTAR MINES LIMITED

McLEESE LAKE, B.C.

Author: Garry D. Bysouth

Submitted: November 14, 1990

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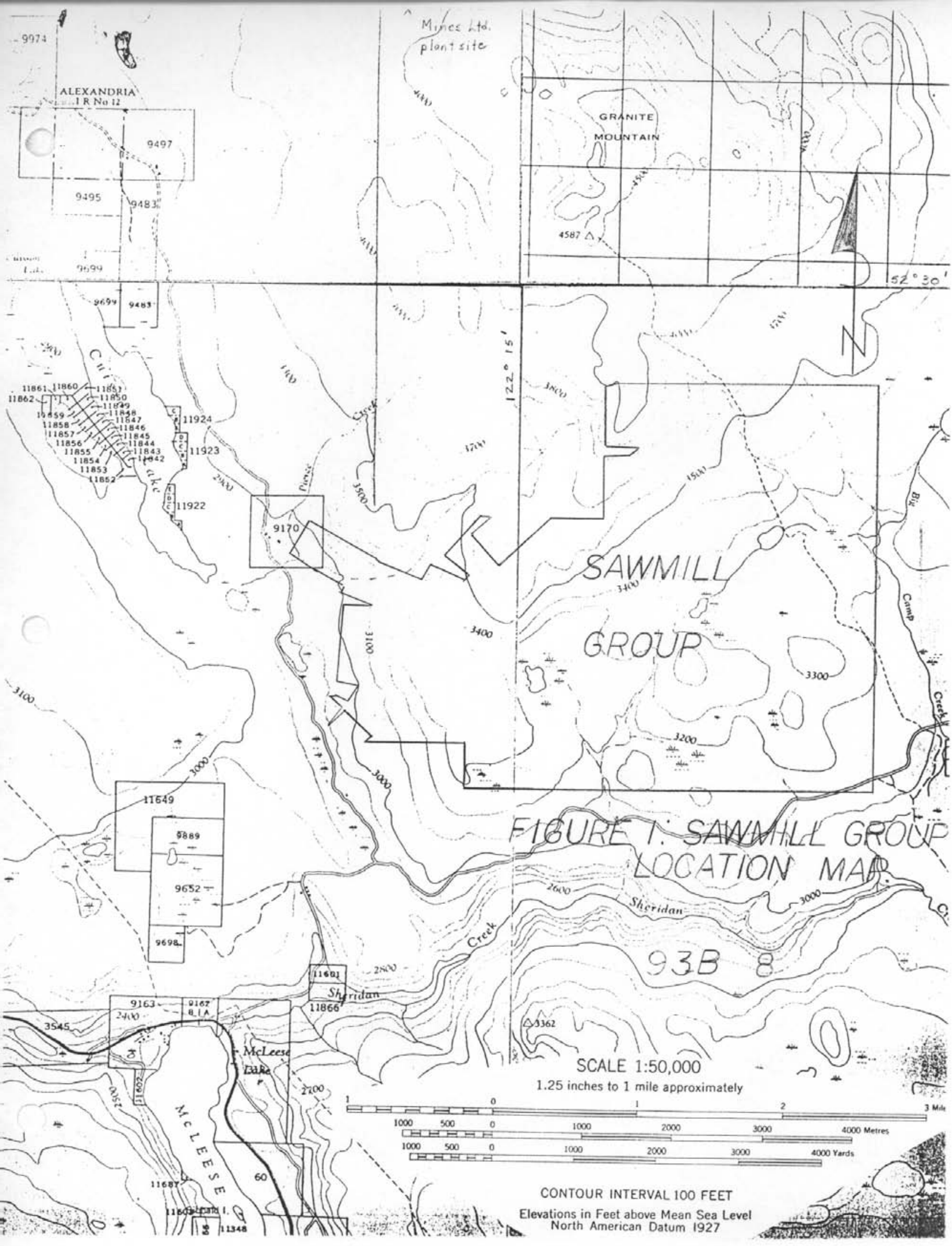


FIGURE 1: SAWMILL GROUP LOCATION MAP

93B 8

1. Introduction

The Sawmill Group lies about 4.0 miles (6.44 km.) south of the Gibraltar Mines concentrator, along the southern flank of Granite Mountain at approximately the 3500-foot (1067 m.) elevation. Access is via a network of old logging roads which link the property to the paved road leading to Gibraltar Mines. General location of the claims is shown in Figure 1.

The first claims of the Sawmill Group were staked in 1978 to cover a large I.P. anomaly and several older copper prospects. Of the prospects, the most important was the Iron Mountain property on which the first recorded work dates back to 1925. The chief focus of work for Gibraltar Mines was the I.P. anomaly which was located west of Iron Mountain over an area of very limited rock exposure. The anomaly had been outlined in 1978 and was attributed to a graphitic source rather than sulphide mineralization. Diamond drilling in 1979 by Gibraltar Mines however, revealed that extensive pyrite and chalcopyrite mineralization occurred within the I.P. zone, and by 1981, approximately 30 million tons of open pit inventory had been outlined, which graded at 0.28% total copper and 0.022% molybdenite. More diamond drilling and I.P. surveys followed from 1982 to 1986, but little change was made in the inventory. Most of the above work is covered in Minister of Mines Reports and assessment reports. (See attached bibliography).

This report covers a diamond drill program conducted in 1990 within the Sawmill Zone. Four vertical N.Q. diamond drill holes, totalling 2,455 feet (748.28 meters) were completed. Drilling was done by L. D. S. Diamond Drilling Ltd. of Site 5, Comp. 13, R.R.#2, Kamloops, British Columbia during the period June 5, 1990 to June 22, 1990. The whole core was assayed except for a two-inch segment per ten-foot section which was retained and stored at Gibraltar Mines.

2. Mineral Claims

The mineral claims of the Sawmill Group are shown in Figure 3 (in pocket). Information on these claims is tabulated below:

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

3. Geology

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

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

The ore and gangue mineralogy of the Sawmill ore zone is very similar to that of the Gibraltar deposits. Pyrite, chalcopyrite and molybdenite occur in veins and shears accompanied by various combinations and concentrations of quartz, chlorite, carbonate, sericite and epidote. There is however, one ore type not found at Gibraltar. This has been referred to as a quartz-gypsum zone which is characterized by gypsum veins and often strong chalcopyrite mineralization accompanied by minor bornite. Pyrite is invariably weak or absent, and the zone is interpreted to represent the extreme low sulphide end of the pyrite-chalcopyrite zoning system.

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

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

4. Drill Program

4.1 Objectives

Each drill hole of the program had separate objectives:

1. Drill Hole E90-1 was located east of the ore zone to test an outlying I.P. anomaly.
2. Drill hole E90-2 was located east of the ore zone to test the grade and thickness of a quartz-porphyry body.
3. Drill hole E90-10 was positioned along the southwest flank of the ore zone to provide further ore definition.
4. Drill hole E90-11 was located northwest of hole E90-1 to test for any possible connection between the main ore zone and ore outlined in hole E90-1.

3.2 Results

The drill hole locations are shown in Figure 2. Drill sites were located by hip chain and compass from surveyed control points. Drill holes E90-1, E90-2 and E90-11 were on the Cole 1 Mineral Claim. Drill hole E90-10 was on the Aaron 1 Mineral Claim. Drill logs are included in the pocket of this report. All copper concentrations reported here and in the logs are for total copper. All molybdenum reported is MoS_2. All pyrite concentrations are visual estimates. An outline of pertinent results is provided in the following table and descriptions.

Hole No.	Collar Elev.	Depth	Casing	Ore Intersection From	To	Width	%TCu	%MoS_2
E90-1	2973′	644′	22′	450′	570′	120′	0.24	0.006
E90-2	3081′	707′	82′	0′	0′	-	-	-
E90-10	2906′	502′	70′	70′	250′	180′	0.25	0.016
E90-11	2962′	602′	22′	380′	530′	150′	0.19	0.007

Core is sampled in 10-foot (3.048m.) sections, crushed and passed through a Jones Splitter. The product is pulverized to minus 100 mesh and rolled. A 1/2 gram sample is weighed out and digested in a mixture of Potassium Chlorate, Nitric Acid, and Sulphuric Acid for a period of 30 minutes. Following digestion, each sample is bulked to 10% HCl

and assayed in a Perkin Elmer 3030 Atomic Absorption Sectrophotometer.

Drill hole E90-1 was confined entirely to metavolcanic rocks of the Cache Creek Group. A 10-foot scarn zone carrying about 25% combined pyrite and magnetite, and .35% copper was intersected at 170-feet. The scarn was contained within an unusually barren host rock. A second scarn was intersected at 280-feet which also marked the beginning of weak pyrite and chalcopyrite mineralization. The top of the ore zone and the main concentration of pyrite was intersected at 450-feet. At 570-feet both the pyrite and chalcopyrite showed an abrupt decrease in concentration.

Drill hole E90-2 was confined entirely to a white barren quartz porphyry. The hole was assayed down to 260-feet without any ore grade copper or molybdenite being encountered - the remainder of the hole appeared equally barren. Weak pyrite mineralization was noted throughout the hole, either as disseminated grains, or as a common constituent of quartz veins.

Drill hole E90-10 intersected Border Phase Diorite throughout its length. An ore zone, associated with about 3.0% pyrite, was encountered directly beneath the overburden cover and traced to a depth of 250-feet. Weak pyrite and chalcopyrite mineralization underlies the ore zone to a depth of at least 500-feet.

Drill hole E90-11 went through a metavolcanic sequence down to 358-feet, followed by Border Phase Diorite from 358-feet to the end of the hole at 602-feet. A ten-foot scarn zone containing about 4.0% sulfides and grading at .20% copper was encountered at 108-feet. The main pyrite and chalcopyrite concentration however, was found to begin at the Border Phase contact and to extend to about 550-feet.

3.3 Interpretation

The Sawmill copper-molybdenum mineralization is related to a large pyrite zone which can be outlined by a 3.0% pyrite concentration contour. Drill hole E90-1 intersected the pyrite zone at a depth of 450-feet, and hole E90-11, which was collared at a similar elevation, intersected the same zone at 370-feet. In both cases, a significant width of ore grade mineralization was found which was contained entirely within the pyrite zone. These holes confirm an earlier interpretation which suggested the southeast flank of the pyrite zone plunged to the southeast at about 30- to 40- degrees. Of interest also, are the scarn zones intersected in each hole. These are interpreted as bands of reactive rock which had trapped copper mineralization under temperature and pressure conditions not otherwise conducive to copper concentration. From a prospecting viewpoint, the scarns may be considered outliers of more extensive mineralization.

Drill hole E90-10 was collared over an area of projected mineralization. A 180-foot section of near surface ore was encountered which generally confirms this projection, however, only the bottom part of the system appears to be present. That is, in this area, the upper portion of the ore is accompanied by heavy pyrite mineralization which was not intersected in the hole. The pyrite content encountered was about 3.0% which is normal

for the lower part of the ore body.

Drill hole E90-2 provided some change to the geological model of the Sawmill Zone. The length of the quartz porphyry encountered was more than expected, which suggests the body has either a steeper dip or greater thickness than originally predicted.

4. Statement of Expenditures

1990 Diamond Drill Program, Sawmill Group

1.	Site Preparation Costs Duckworth Lake Logging Ltd. D8 Cat Bulldozer, 3 hrs. @ $125. per hr.		$375.00
2.	Diamond Drill Costs LDS Diamond Drilling Ltd. 748.28m. of drilling at $38.04 per meter		28,464.57
3.	Personnel Costs		
	1. Field Work G. Barker, May 2 - June 22, 1990 26 hrs. @ $27.38 per hour	$711.88	
	2. Supervision and Core Logging G. Bysouth, April 30 - June 29, 1990 68 hrs. @ $38.54	2,620.72	
			3,332.60
			$32,172.17

5. Conclusions

The near surface ore outlined by drill hole E90-10 will cause a small increase in ore reserves. The ore encountered in drill holes E90-1 and E90-11 is too deep to be included in a mineable reserve. In general, this drilling program has not changed the mining feasibility of the Sawmill Zone.

G. D. Bysouth
Senior Geologist

7. Bibliography

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

2. Assessment Reports - Gibraltar Mines Limited, 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.

5) Bysouth, G. D., Diamond Drill Report on the Sawmill Zone, February, 1987.

APPENDICES

APPENDIX 1. Statement of Qualifications

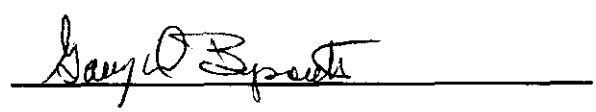
I, Garry D. Bysouth, of Gibraltar Mines Limited, McLeese Lake, British Columbia, do certify that:

1. I am a geologist.

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

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

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



Garry D. Bysouth

APPENDIX II. List of Abbreviations

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

APPENDIX III. Drill Logs.

GIBRALTAR MINES LIMITED

HOLE NO. E 90-1
SHEET NO. 1 OF 11

LOCATION Sawmill Zone | BEARING — | LATITUDE 31820N (chain from Hardy Mines survey) | CORE SIZE N.Q.W. | LOGGED BY G. Bysouth
DATE COLLARED June 5, 1990 | LENGTH 644' | LONGITUDE 49525S | SCALE OF LOG 1"=10' | DATE June 6, 1990
DATE COMPLETED June 7, 1990 | DIP −90° | ELEVATION 2973 ? topo map | REMARKS hole was confined to a meta-volcanic sequence.

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation	Alteration	Footage	Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE 88' / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0	Casing To 22'											22							
3.05	10	META ANDESITE ? (22'- 97') - resembles a foliated fine-med grn diorite	To Mod			30		70-80×6 90 80	½-¼×6 6" 14"	qtz-carb ×6 qtz-carb qtz-carb	0	limonite very wk. to 88'— mainly oxid. ferrous carb.	27	80		59776	<.01	.001		.05
6.10	20	mainly a dark green foliated fine-med grn rock with alternating bands, lasmae and wisps of dark chl-plag and light plag-qtz.	80 Mod			40			10'	some of incn qtz-carb in places bx rx and qtz-carb	<.5	∴ this interval (22-97') prob. is a carbonate altd barren shear zone (dark altn) cutting a conc. sequence of meta-volcanics	37	95		59926	<.01	.001		.05
9.14	30	- carb-(ankerite?) occurs throughout the rock as veinlets and seps - the carb. oxidizes to a deep brown - the rock is gen. soft (vsw)	65 Mod			50			5' 11'	incn qtz-carb (mag) broken qtz ((carb)) vein	<.5		47	85		59927	.01	.002		.05
12.19	40	- the rock is cut by numerous light colored bands - mainly qtz-carb-spar ± minor py, mag. and rare sphal. - note that feldspars are [illegible]	80 wk.			60			5'	pale gray qtz-carb-spar band (6pvl) - a cil	<.5		37	80		59928	.01	.001		.05
15.24	50	may be carb-chl. shear zone cutting normal [illegible]	70 Mod			70			7' 3" 2" ½	pale gray qtz-carb-spar [illegible] qtz qtz qtz	<.5		67	90		59929	<.01	.001		.05

GIBRALTAR MINES LIMITED

HOLE NO. E90-1
SHEET NO. 2 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG Foliation	Alteration	Footage	Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																			
			20 - 45 Str Crea					70	½	qtz-chl-(py)	<.5			95						
								75	¼	qtz-chl-(py)			77			59930	<.01	<.001		.05
3.05	10					80														
			50 Mod					50	5'	pale grey qtz-ser-carb zone with ~1-3% chl. and brown carb.	<.5			100						
													87			59931	.01	.001		.05
6.10	20					90														
								35-30	¼-½	carb-py ez										
								10	⅓	qtz-carb-py-cphal*	<.5	* resinous orange-yellow mineral		98						
			60 Mod					60-70%	3½+	qtz-ep-piedmontite			97			59932	.01	.001		.05
9.14	30	META VOLCANIC				100		70	2½"	qtz										
		SEQUENCE (97'-260')						40	¼	qtz										
		a complex unit of variable texture and composition, but mainly of dioritic composition. A typical variation	NO					50	2"	qtz	<.5			98						
								70	2"	qtz-carb			107			59933	.01	.002		.05
12.19	40					110														
		is: - med grn ~1/10" dia and equigranular - ~ 40-45 o/o ragged chl. grains - 50 saus plag. - 25-10 o/o interstitial qtz	NO					90	8"	chl-ep-qtz	<.5			100						
													117			59934	.01	.001		.05
15.24	50					120														
		Another variation is a plag porp with 50 o/o anhedral saus plag up to ⅛" dia in a finer grn matrix of chl. and saus.							5'	qtz-chl-ep-peid (py)*	<.5	* appears in a shear zone		95						
													127			59935	.01	.002		.05
18.29	60					130														

GIBRALTAR MINES LIMITED

HOLE NO. E90-1
SHEET NO. 3 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0	- the meta andesite unit of 22'-97' may be a carb. altd shear zone cutting this zone. Typical dioritic rx.s occur which	80 WK	140	40+70	½ + ½	qtz-ep-py	<.5		137	95		59936	.03	.002		.05
3.05	10	likely are not a plutonic rocks but rather a recrystallized sequence of volcanics and volcanoclastic sediments of pred. dioritic or andesitic comp.	80 WK	150	50	8"	chl-ep-py	0.5		147	95		59937	.02	.002		.05
6.10	20		ND	160	20-60	28"	ep-chl-qtz-py ((ep))	0.5		157	95		59938	.02	.002		.05
9.14	30		ND	170	30? 30	6' 1½"	ep-pied-garnet scarn qtz	<.5		167	98		59939	.01	.001		.05
12.19	40		ND	180	50?	12'	ep-pied-garnet-chl-py-mag (cp) scarn	10-15 % Py 10-15 % Mag		177	98		59940	.35	.002		.35
15.24	50		70 WK	190	45 ? ?	7' 3" 2"	chl-ep-qtz (py) chl-ep-qtz chl-ep	0.5		187	98		59941	.02	.002		.08
18.29	60																

GIBRALTAR MINES LIMITED

HOLE NO. E90-1
SHEET NO. 4 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG Foliation	Alteration	Footage	Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																			
			70 W?								<.5		197	98		59942	2.01	.001		.05
3.05	10					200														
			NO					8	10"	qtz-chl-ep ((ep))	<.5		207	100		59943	.06	.001		.08
6.10	20					210														
			NO					45	2'	chl-ep zone	0.5		217	98		59944	.05	.001		.08
								?	1½	ep-pyrt-(py) ((ep))										
9.14	30					220			2'	chl-ep-qtz?-carb (py)										
			NO						7'	mottled ep-chl zone -poss an alt'd volc. dx	0.5		227	98		59945	.01	.002		.05
12.19	40					230														
			NO					60	½	qtz-carb	<.5		237	95		59946	.01	.001		.05
								90 ±2	2"+1"	qtz-carb vz										
15.24	50					240														
			NO						4'	mottled ep-chl zone	<.5		247	85		59947	.01	.001		.05
18.29	60					250														

GIBRALTAR MINES LIMITED

HOLE NO. 590-1
SHEET NO. 5 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																
		SCARN ZONE (240-390)	50 WK		15°	2" qtz+cp		.5			95						
3.05	10	- from 260-280' is a mottled chl-ep zone with short seams of scarn - the contact with the scarn zone at 280' is gradational.		260	80	¼	ep-py			257			59948	.01	.002		.05
		- this appears to be a zone of lime	75 WK		5	⅛	chl-py-ep	1.0			98						
6.10	20			270		20"	chl-ep-plag-py			261			59949	.03	.002		.08
		Sediments and impure limestone lenses 5-20' Tr Cu.	70 WK		80×4	½0-¼×4	chl-py×4				98						
9.14	30			280	70×2	½0×2	chl-py×2	1.5		277			59950	.05	.002		.08
					7°	3'	ep-chl-zone										
			NS		?	10'	ep-plag+garnet-py (chl) scarn	3.5	ep appears to be assoc with cp and qtz veinlets as earlier generation		100						
12.19	40			290						287			41701	.15	.002		.15
			40		?	5.5'	(mottled chl-ep(plag) zone		- 12" diorite throughout scarn		98						
15.24	50			300		4.5'	ep-chl-scarn	0.5		297			41702	.01	<.001		.05
			NS		?	10'	chl-ep-garnet-mag (cpl) scarn	1.0 (6.0 qtz)			100						
18.29	60			310						307			41703	.10	.001		.14

GIBRALTAR MINES LIMITED

HOLE NO. E90-1
SHEET NO. 6 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																
			ND.		?	5	chl-ep-mag (cp) seams				95						
					45+10×2	1+½+½0	qt3-carb-py×2 } mottled cp-chl-py zone	3.0		317			41704	.20	.001		.12
3.05	10			320													
		cherty zone - poss. a sed. band - bedding appears ~ 80°	80 WK		15×4	½0-⅓×4	qt3-py (cp) ×4				100						
					10+5	¾+½	qt3-py-cp×2	3.0		327			41705	.06	.001		.15
					65×3	½0×3	qt3-py×2										
6.10	20			330	5×3	½20×2	py×3										
		Similar to above but with bands of meta-andesite	80 WK		20×2	½0×2	qt3-py×2				95						
					40×2	⅛×2	qt3-ser-py×2	1.5		337			41706	.03	.001		.08
					80×4	hle×4	py×4										
9.14	30			340													
		META VOLCANIC SEQUENCE (340 - 644) typical assemblage of variable textured, andesitic rocks which appear to be recep. thin beds of volc. breccia, flows, and various pyroclastic sediments much of	80 WK		60×6	hle-½0×6	py×6				100						
					80	1½	qt3-ser-py-cp										
					45	2"	qt3-ser-py-(cp)	2.0		347			41707	.14	.002		.14
					50	2"	qt3-ser-py-cp										
12.19	40			350	60×3	½0×3	qt3-py										
		which now resembles diorite - volcanic parentage is displayed in many of the variations most notable of which is a ep-chl breccia consisting of ep clots	75 Mod		45×3	½0×3	qt3-chl-py×3				98						
					60×3	½0×3	qt3-chl-py×3	1.0		357			41708	.05	.002		.08
15.24	50			360													
			75 Mod		40+10	½×2"	qt3-ser-chl-py×2				98						
					5+2×	hle×2	py×2	1.0		367			41709	.07	.004		.05
18.29	60			370	60	½0	chl-py										

GIBRALTAR MINES LIMITED

HOLE NO. E 90-1
SHEET NO. 7 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	∨ TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0	up to 2" dia in a swirled dark green chloritic matrix.	70 Wsd	380	? 70 70	4' ⅛ 1/20	pale grey qtz-ser-carb-py zone py-cp py	1.0		377	95		41710	.11	.002		.08
3.05	10		40 Mod	390	30 40 5+10	¼ 1" ⅛+1/10	qtz-py qtz-cp-py-cp qtz-py	1.5		387	98		41711	.07	.006		.08
6.10	20				40-50 x 6 80 50 5 30 5 x 2	1/10 x 6 2" 1/10 1/3 1/10 1/8 + 1/10	chl-py (cp) x 6 chl-py chl-py-cp qtz-chl-py-cp qtz-cp qtz-chl-py-cp x 2	2.5		397	98		41712	.24	.025		.15
9.14	30	-mainly a chl-cp-bx zone from 397 to 404	50 wx	400													
12.19	40		ND	410	20+15 40 30 5+ ?	1/8 x 2 1/8 1" 1/10 3"	chl-carb-cp qtz-py (cp) chl-cp qtz-py qtz-cp	1.5		407	100		41713	.19	.016		.14
15.24	50	from 412 to 430, bands and clots of med-coarse grn. hbl-saus segregations in dense finer grn chloritic matrix - hbl tends to be subhedral to euhedral and black	60 wx	420	70? 45	2" 1/8 1/3	qtz-cp chl-py qtz-py	.5		417	98		41714	.09	.011		.08
18.29	60			430	40 30+40	8" 1/10 + 1/8	qtz chl-py	.5		427	98		41715	.05	.008		.08

GIBRALTAR MINES LIMITED

HOLE NO. E 90-1
SHEET NO. 8 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																
			70 WE	440	40 45 30 40	2½ ½± ½0 2"	qtz-py chl-cp carb-cp qtz	1.0		437	95		41716	.13	.010		.10
3.05	10																
		zones of cp-chl breccia	40-60 brx	450	70 30 20×3	½0 ⅛ ½0×3	chl-py qtz-chl-py chl-py×3	1.5		447	95		41717	.10	.007		.08
6.10	20																
			80 mod.	460	10-30 20	½0×3 2½' 7½'	chl-py×3 qtz-py chl-ep-mag (py) ((cp)) scarn	3.5		457	98		41718	.15	.007		.10
9.14	30																
			60 WK	470	40-30×6	½0-½0×6 3'	chl-py×6 gg-brx	2.0		467	90		41719	.21	.013		.08
12.19	40																
			NO.	480	35 55-70×8 45 70×4	8" ½0-½0×8 ½ ½0×4	qtz-py chl-py×8 qtz-chl-py } fine dissem py(cp) in dark chloritic zone chl-py×4 }	2.5		477	95		41720	.20	.009		.12
15.24	50																
				490	65×2 80 80	½0×2 10" ½ 1½' 3' 2'	py-cp×2 chl (py) ((cp)) chl-cp chl-carb (py) (cp) gg-brx chl-carb-py	3.0		487	75		41721	.43	.004		.14
18.29	60																

GIBRALTAR MINES LIMITED

HOLE NO. E90-1
SHEET NO. 9 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation	Alteration	Footage	Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE	Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0							?	3'	vuggy-chl-ep-py-cp zone											
			50-60 wk.						4½'	vuggy-chl-ep-py(cp) zone	6.5				95						
						500		40-60×7	½0-⅓×7	qtz-chl-py×7				497			41722	.70	.004		.25
3.05	10							45×3+10×4	½+¼+⅛+1/20	qtz-chl-py×7											
			60 wk					?	4'	ep-chl-bx zone laced with chl-carb-py veinlets	4.0				80						
						510		60×3	¼+⅛×2	qtz-py(cp)×3				507			41723	.13	.001		.10
6.10	20							50×2	⅛×2	chl-py×2											
			70 mod					40×2	⅛+1"	qtz-chl-py×2											
								5+55×3	¼×4	chl-py(cp)×4 } ep-chl-bx zone											
								80	7"	qtz	4.0			517	95		41724	.16	.002		.14
								80	5'	dark green chl-carb-py(cp) zone - chl-carb-py-cp											
9.14	30					520		30	½												
			40 str					?	7"	qtz											
								30	16"	qtz-ser-py((cp))											
								40	10"	qtz-ser-py					98						
								40×5	½0-½0×5	qtz-chl-py×5	7.0			527			41725	.21	.004		.12
								70	1"	qtz											
								20+30×2	⅛×2	qtz-chl-py×3											
								10×2		qtz-carb-cp×2											
		banded chl-ep zone - alternating chl and sacc-ep bands up to 6" wide + minor ep-chl-bx						40	½	qtz-carb-py(cp)											
								5+70	⅛×2	qtz-mag×2					98						
			70-85 str					30+40+85	¼×3	qtz-carb-py(cp)×3											
								85×2	1/16×2	chl(cp)×2	3.5		* 85° contacts ~ conformable	537			41726	.11	.005		.15
								85°		quartz-porphyry* with minor qtz-py veins and disseminated py											
15.24	50	from ~ 538' to 567				540		40×2	1/10×2	qtz-chl-py-cp×2											
		mainly a banded chl-ep rock with zones of chl-ep-bx as above						90+45	½×2	qtz-chl-py(cp)×2											
								70-85×2	1/10-1/16×4	chl-py-cp×4					100						
			85 str					30	⅓	qtz-chl-py-cp	4.0		soft core zone	547			41727	.18	.005		20
								40×2	¼×2	qtz-py×2											
								45	½	qtz-py											
								40	⅛	chl-cp											
18.29	60					550		5+45×3	⅛-⅓×3	qtz-chl-carp-py(cp)×3											

GIBRALTAR MINES LIMITED

HOLE NO. E90-1
SHEET NO. 10 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																
			60-80 Mod	560	20×2 40±50 30×2 30	1/10×1/8 1/2 - 3/4 1/8×2 1/2	qtz-chl-carb-py ex chl-carb-py(ep)×2 chl-carb-py×2 chl-carb-py	3.5		557	100		41728	.22	.008		.14
3.05	10																
			40-70 WK	570	10+40A2 40×2 20 8± 15-20×4	1/10×3 1/10×2 2" 4" 1"+1/2+1/2×2	qtz-chl-py×3 qtz-chl-py×3 qtz-chl-carb-py chl-(ep) qtz-py((ep))	4.0		567	98		41729	.20	.004		.12
6.10	20	from 567' to 576' the rx resembles a sheared and crushed diorite or qtz-diorite with stringers of ep'alsq foln planes - numerous ep-py veinlets to EOH															
			30 to 80 Lfr	580	20 40 3 4±	1/8 1/4 1/3 1/8	chl-carb-py qtz-chl-py qtz(py) qtz-chl-py	2.0		577	95		41730	.09	.003		.08
9.14	30	from 576 to EOH															
		the rx is a typical meta volcanic with rapid variations in text. ie, ep-chl bx, banded ep-chl, med grn "diorite", ~a crushed diorite similar to 567'-576' occurs between 605 and 620	50 str.	590	80×3 40 5×3	1/10×3 1/8×2 1/10×3	qtz-chl-py×3 chl-py×3 chl-carb-py×2	2.5		587	98		41731	.16	.006		.08
12.19	40																
			80 Mod	600	70-80×6 50 80×2	1/10-1/4×6 1/2 1/2×2	ep-py×6 qtz qtz×2	2.0		597	95		41732	.07	.002		.08
15.24	50																
			~50	610	40 60 30 20	1/3 1/4 1/4 1/3	qtz-ser-py qtz qtz-chl-py qtz-chl-py	3.0		607	98		41733	.08	.003		.05
18.29	60																

GIBRALTAR MINES LIMITED

HOLE NO. E90-1
SHEET NO. 11 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation	Alteration	Footage	Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																			
			ND			620		50×2 50° 80	1/10×2 2½" ½	qtz-chl-py×2 qtz-py-mag qtz	2.0		617	95		41734	.07	.001		.05
3.05	10																			
			ND			630		70-80×2 5×6 ? 30×60	1/3-1/4×2 1/10×6 ? ½×2"	qtz×2 carb×6 bx zone "healed" by qtz qtz-carb×2	1.0		627	95		41735	.08	.003		.05
6.10	20																			
			ND			640		50×2+80 5×3	1/8×2 1/10×3	qtz×2 qtz-chl-carb-py×3	0.5		637	98		41736	.07	.005		.05
9.14	30																			
		EOH 644'	ND					5 50×2 ?	1/10 1/4×2 "	chl-py-cp qtz-chl-cp×2 bx zone healed by qtz-carb	0.5		644	95		41737	.20	.005		.20
		BQB.																		
12.19	40																			
15.24	50																			
18.29	60																			

GIBRALTAR MINES LIMITED

HOLE NO. E 90-2
SHEET NO. 1 OF 11

LOCATION Sawmill Zone | BEARING — | LATITUDE 32665 N (approx. values) | CORE SIZE N.Q.wl. | LOGGED BY G. Bysouth
DATE COLLARED 7 June 1990 | LENGTH 707' | LONGITUDE 50550E (chain & compass survey) | SCALE OF LOG 1"=10' | DATE June 1990
DATE COMPLETED 9 June 1990 | DIP −90° | ELEVATION 3081 (from topo map) | REMARKS

BOTTOM DEPTHS: LEACH CAP —; LIM. ZONE 90'; SUPERGENE —

Meters	Feet	ROCK TYPES AND ALTERATION	∨ TO CORE FOLIATION	GRAPHIC LOG: Foliation	Alteration	Footage	Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0	Casing To 82'											82							
		QUARTZ PORPHYRY (82-707') a pale grey rock with rounded phenocrysts of grey qtz, ~ 1/10" dia,	to 15 Mod					?	½	qtz-py		limonite weak to 90'								
								2	2"	gg-lim				80						
3.05	10					90		5	3"	gg-lim	1.5		87			44676	.08 (ox (.06))	.002		.05
		which form about 35-40 o/o of the total. Matrix appears to be composed of white feldspar and qtz with minor sericite. Chl. occurs in some sections up to 5% but is generally	40-45 Mod						10"	gg-lim										
								45 × 5	1/10-1/8 × 5	qtz-py(cp) ×5				95						
6.10	20					100		45 × 8	1" + 1/10 × 7	qtz-py(cp) ×7	2.5		97			44677	.13 (ox (.02))	.013		.08
		absent. Dissem. py, sometimes with minute inclusions of cp, forms .5 to 1.0 o/o of the rock as fine grns and ovoid clots up to 1/16" dia which						45	1/2	qtz-py										
			45 Mod					25	1/3	qtz-py-cp				95						
								50												
								40+35	1/2+1/8	qtz-py ×2										
								80	2"	qtz-py-cp										
								40	10"	qtz-ser-py (cp)										
9.14	30					110		45 × 2	3" + 1/2	qtz-ser-py	4.5		107			44678	.11 (ox * (.01))	.006		.18
		appear aligned along fol'n. planes. Only the definite veins are described.						20	1/2	qtz-py-cp				93						
								?	5"	qtz										
			40 Mod					50 or 40	1/2 × 2	qtz-carb-py ×2										
								50	2"	qtz	1.0		117			44679	.05	.006		.14
12.19	40					120		45	10"	qtz-ser-py (cp)										
								45 × 2	1/20 × 3	qtz-py ×3				98						
								60	2"	qtz-ser-py										
			50 Mod					50	12"	qtz-ser-py	1.0		127			44680	.08	.007		.10
15.24	50					130			3"	qtz-ser-py										

* 4.01 oz Au Remainder of hole

GIBRALTAR MINES LIMITED

HOLE NO. E90-2
SHEET NO. 2 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0	dark zone - chl.? or ser.? alt'n.	50 mod	140	50 x 6 55-60 60 50 x 8 45 60 x 3	Y10 x 6 ¼ x 2 ⅛ Y10-¼ x 8 8" Y10 x 3	qt3-py x 6 qt3-carb-py-(ep) x 2 carb-py (ep) qt3-ser-py x 8 qt3-ser-py (ep) qt3-py x 3	4.5		137	98		44681	.07	.006		.10
3.05	10																
6.10	20		50 mod	150	50-10 5 x 2 60	2' ⅛-Y10 Y10 x 2 1½' ¼	gg-bx qt3-py (ep) x 2 qt3-py x 2 gg-bx qt3 (ep)(chl)	1.5		147	95		44682	.06	.004		.10
9.14	30		45 Mod-wk	160	45 x 6 50 50	½-Y10 x 6 Y10 ⅛	qt3-ser-py x 6 qt3-ser-py qt3-py	2.0		157	95		44683	.03	.004		.08
12.19	40		45 mod	170	45-50 x 7 45 45 x 4 5# 45 x 6	Y60-Y10 x 7 ½ Y10 x 4 ¾ Y10-¼ x 6	qt3-py (ep) x 7 qt3-py ((ep)) ((chl)) qt3-py x 4 qt3 (ep) qt3-py x 6	2.0		167	98		44684	.05	.007		.08
15.24	50		40 WR	180	40 x 3 35 x 3 40 x 3	¼ x 3 1" + Y10 x 2 Y10 x 3	qt3-py (ep) x 3 qt3-carb-py (ep) qt3-py x 3	3.0		177	90		44685	.07	.005		.10
18.29	60		40-50 WR	190	50 x 10 40 45	Y10-⅛ x 10 2"	qt3-py x 10 qt3-carb-py ((ep))((chl)) qt3 ((chl))	3.0		187	98		44686	.04	.015		.38

GIBRALTAR MINES LIMITED

HOLE NO. E 90-2
SHEET NO. 3 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																
			50 WK	200	50 50 x 3 50 50 x 2	1/10 12" 1/4 x 2 + 1/2 1/8 1/10 x 2	qtz-py qg-lam qtz-carb-py x 3 qtz-py qtz-py x 2	2.5		107	40		44687	.05	.003		.05
3.05	10	fine grained flakes of chl. ??															
			60 WK	210	60 30 45 40	1/8 2" 2" 1/3	qtz-carb-py(cp) qtz qtz-py qtz-py	1.5		207	95		44688	.03	.003		.08
6.10	20																
			60 WK	220	50 45 45 x 3	1/4 1/4 1/10 x 3	qtz-cp qtz-py-cp qtz-py x 3	1.5		217	98		44689	.11	.002		.10
9.14	30																
			60 WK	230	60 50 x 4	1" 3" 1/10 x 4	qtz-py qtz-ser-py qtz-py x 4	2.0		227	95		44690	.04	.002		.08
12.19	40																
			60 WK	240	50 x 3 40	1/10 x 3 1/8	qtz-py ((MG))	1.5		237	98		44691	.05	.002		.05
15.24	50																
			60 WK	250	30 + 20 80? 45	1/4 + 1/10 1/4 - 1/4	qtz-ser-py x 2 qtz-py(cp) qtz-py	1.5		247	100		44692	.05	.004		08
18.29	60																

GIBRALTAR MINES LIMITED

HOLE NO. E90-2
SHEET NO. 4 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	∨ TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																
			60 WE	260	60×2 80 80 45	1/10×2 2" 2½ 2"	qt3-py qt3 qt2 qt3-carb-py	2.5		257	95		44693	.07	.007		08
3.05	10																
			60 WE	270	45 20 30	4" 6" 1/8	gg-bx gg qt3-cW-py	1.0		267	95						.05
6.10	20																
		Pyrite decreases at 275 and from 270 to 310'. rock is becoming coarser grd. with qt3 phenocrysts up to ¼" dia and sections of minor pink aplitic 'spar phenocrysts occur	70 WE	280	45	1/4	qt3-py (chl-ct)	1.0		277	90						05
9.14	30																
			HB	290				0.5		287	98						05
12.19	40																
			50? WE	300	90×2 25	1/10×2 1/2	qt3-py×2 qt3-py-gg	1.0		297	95						.05
15.24	50																
			65 WE	310	45	1/4	qt3-py-gg	0.5		307	95						.05
18.29	60																

GIBRALTAR MINES LIMITED

HOLE NO. E 90-2
SHEET NO. 5 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																
			65 WK	320	50	¼	qt3-ser-py										
					40	½	qt3-ser-py	1.0			98						.05
					30	⅛	qt3-py			317							
3.05	10																
			ND	330	70	1"	qt3-py										
					80	6"	qt3-py	2.5			90						.05
					?	½	qt3-ser-py-cp			327							
6.10	20																
			70 WK	340				0.5		337	100						.05
9.14	30																
			ND	350	70	½	qt3-py										
					30	⅛	qt3-ser-cp-py				100						.10
					60	¼	qt3-py(cp)-cp	1.0		347							
					70	1/10	qt3-cp-py										
12.19	40																
			ND	360	60	1/3	qt3-py										
					50	1/10	qt3-py	1.0			100						.05
					45×2	1/10	qt3-py×2			357							
15.24	50																
			ND,	370	40	7"	qz-brx										
					50×3	1/10×3	qt3-py-cp×3	1.0			95						.18
					50	⅛	qt3- cp			367							
					45	2"	qt3-ser-cp										
18.29	60																

GIBRALTAR MINES LIMITED

HOLE NO. E 90-2
SHEET NO. 6 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																
			ND		45 45 x 4 45 45 45	1/10 x 2 1/2 x 2 + 1/8 x 2 2" 1/10 1 1/2	qt3-py x 2 qt3-py x 4 qt3-ser-py(cp) qt3-cp qt3-py(cp)	3.0		377	98						.13
3.05	10			380													
			ND		40+45 5 15 45 45x2	1/10 x 2 1/8 2" 1/4 1/10	qt3-py x 2 qt3-carb(py)(cp) qt3-py(cp)((wlo)) qt3-py qt3-py	1.5		387	95						.10
6.10	20			395													
			ND		60 5	1" 1/4"	qt3-carb-py qt3-py(cp)	1.0		397	95						.08
9.14	30	core has a pale green schiste alt'n appearance		405	80	1/10	qt3-py										
			ND		35 40	1/8 1/10	qt3-py(cp)((wlo)) qt3-py((wlo))	1.0		407	98						.12
12.19	40			410	80	2"	qt3-cp										
			ND			7'	gg-bx (steep fault)	0.5		417	90						.05
					60+10 65	1/10 + 1" 3 1/4	qt3 x 2 qt3										
15.24	50			425													
					50 60 80 80	1/10 1/8 1/2 10"	qt3((wlo)) qt3((wlo)) qt3(vuggy) qt3	0.5		427	95						.03
18.29	60			430													

GIBRALTAR MINES LIMITED

HOLE NO. E90-2
SHEET NO. 7 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																
			ND	440	60 20 20×2 55 10 45×2	1" 1/10 1/10 1/10 1/4 1/10×2	qtz qtz-py (Mo) qtz-py×2 qtz ((Mo)) qtz-carb-py qtz-py×2	1.5		437	95						.08
3.05	10																
			ND	450	80 30×2	6" 1/10×2	qtz qtz-py×2	0.5		447	98						.05
6.10	20																
			ND	460	20 90	1/10 5"	qtz-py qtz (vug)	0.5		457	98						.05
9.14	30																
			ND	470	70+45 40	2"×2 1/10	qtz-ser-py (cp)×2 qtz-ser-py (cp)	0.5		467	100						.08
12.19	40																
			ND	480	35 45×2 80	1/8 1/10×2 2"	qtz-ser-py qtz-py×2 qtz	0.5		477	100						.05
15.24	50																
			ND	490	70 20 70×3	1/8 2" 1/4+1/10×2	qtz-py qtz-ep-py qtz-ep-py	1.5		487	95						.05
18.29	60																

GIBRALTAR MINES LIMITED

HOLE NO. E90-2
SHEET NO. 8 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0				40 40x3+40 20x2 70	2" Y10x3+Y4 Y4x2 Y2	qtz-ser-py-ep qtz-ep-py qtz-ep-py x2 qtz-ser-py	1.5		497	98						.10
3.05	10	Weak Sauss alt'n	ND		70													
				500	70 x3	Y10x3	qtz-py x3	1.0		507	100						.65
6.10	20	several pro Green sections → sericite ?	N3	510	60	Y3	qtz										
					45 ≈	Y8 Y4	qtz-py qtz-py	2.0		517	100						.05
			70 WK		45	12" Y10	qtz qtz										
9.14	30			520													
					70	1"	qtz-py	0.5		527	100						.05
			70 WK		80	Y10	qtz-py										
12.19	40			530													
						1Y2	sg-lox.	1.0		537	98						.05
			70 WK		40x3	Y10x3	qtz-py x3										
15.24	50			540	80	2"	qtz										
					80	5"	qtz	0.5		547	100						.05
			80 WK														
18.29	60			550													

GIBRALTAR MINES LIMITED

HOLE NO. E 90-2
SHEET NO. 9 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																
			55 WK		50 25 40 60	1/4 1/20 1/10 1/8	qt3-py qt3-py-mo qt3(mo) qt3-py	0.5		557	98						.05
3.05	10			560													
			NS		15 45 45	1/8 8" 1/10 x2 1/8	qt3-cp qt3-ser-py-cp (not a solid) ser. zone qt3-py qt3-py	1.5		567	100						.05
6.10	20			570													
			ND		40 x2 45	1/10 + 1/8 1/10	qt3(cp)((mo)) x2 qt3-py	0.5		577	98						.08
9.14	30			580													
			NS		50 x2 3 5 x2 80	1/20 x2 1/8 1/4 + 1/10 1/10	qt3(cp)((mo)) qt3-py qt3-py x2 qt3-py	1.0		587	98						.08
12.19	40			590													
			ND		50 x2 50 60	1/20 x2 1/10 1/4	qt3(mo) x2 qt3-py qt3-py(cp)	1.5		597	100						.09
15.24	50			600													
			ND		40 60 60 x2	1/20 1" 1/10 x2	qt3(mo) qt3-ser-py qt3-py x2	1.0		607	98						.05
18.29	60			610													

GIBRALTAR MINES LIMITED

HOLE NO. E 90-2
SHEET NO. 10 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																
			ND		40 45×2	2" 1/10+1"	qtz-ser-py qtz-py×2	1.0		617	95						.03
3.05	10			620													
			ND		60 60-70×2	1/8 1/10×2	qtz-py qtz-py×3	0.5		623	70						.05
6.10	20	from 630' to 657' the core has a greenish hue - wk sauss ?? or Sericite ?		630													
			70° ? str.				broken zone of last core. pea green zone with numerous py blebs at ± 60-70°	1.0		633 637	85						.05
9.14	30			640													
			75 wk-mod		60 60	6" 6"	qtz qtz	0.5		647	95						.05
12.19	40			650													
			80 wk		70 85 80 60×2	1/10 2" 2 1/2 1/8+1"	qtz (cp) qtz-cp qtz-py (mo) qtz-py×2	1.5		657	95						.05
15.24	50			660													
			ND		70 80 65	2" 1/8 1/4	qtz-ser-py (mo) qtz(mo)-py qtz-py	1.0		667	98						.05
18.29	60			670													

GIBRALTAR MINES LIMITED

HOLE NO. E 90-2
SHEET NO. 11 OF 11

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																
			ND		80 5 45+45+5 50+2 70	2½ ⅛ ⅛×3 ⅛+⅛ ⅛	qt3 qt3-py qt3-py×3 qt3-py (wis) ×2 qt3-cp (wis)	1.0		677	98						.08
3.05	10			680													
			Bo wis		80	⅛	qt3 (wis)	0.5		687	100						.05
6.10	20			690	50+2	⅛×2	qt3-py×2										
			ND		60+5+45? 65 5? 30+2 70 ?+2 70 70	1" ⅛+⅛×2 1½ 2" 1"+½" 10" 2½+¼ ⅜ 12"	qt3-py×4 vuggy qt3-py qt3 (vug) vuggy qt3-py×2 vuggy qt3-py qt3-cp-py×2 qt2-py qt3	3.5		697	98						.10
9.14	30			700													
			ND		80+70	⅛×2	qt3-py×2	0.5		707	100						.05
		EOH 707'															
12.19	40	bos.															
15.24	50																
18.29	60																

GIBRALTAR MINES LIMITED

HOLE NO. E90-10
SHEET NO. 1 OF 8

LOCATION Sawmill Zone | BEARING — | LATITUDE 32975 N (approx. values - KB) | CORE SIZE N.Q.W. | LOGGED BY G.D. Bysouth
DATE COLLARED June 20, 1990 | LENGTH 502' | LONGITUDE 48105 E (chain & compass survey) | SCALE OF LOG 1"=10' | DATE June 22, 1990
DATE COMPLETED June 21, 1990 | DIP -90° | ELEVATION 2906' (from topo map) | REMARKS

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

Meters	Feet	ROCK TYPES AND ALTERATION	∨ TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0	Casing To 70'															
3.05	10			70													
		BORDER PHASE DIORITE (70'-502') this is a plutonic rx. grading between diorite and quartz	ND		5-30×4 40 95&80×10	1/8-1/2×4 1/2 1/10×3	qtz-py×4 qtz-py(cp) qtz-py×3	3.5	no limonite mineralization an	77	70	17	44751	.19	.013		.12
6.10	20			80													
		diorite. It has a general "crushed" appearance - often "healed" by ep veinlets and gashes. The crushing, foln, and veining generally	ND		? 5×2 80	7' 1/8-1/10 1/10	chl-ep-bx py(cp) zone (ep clots in chl-rich matrix) qtz-py-cp(mo)×2 qtz-py-mag	4.0	This phase is gen. fine grn and alt along micro shears and veinlets - there are numerous fine qtz. veinlets - grade estimates are difficult	87	95	27	44752	.30	.038		.17
9.14	30			90													
		obscur the plutonic nature of the rock. It is fine to med. grn - 1/16-1/10" dia grns. - avg comp. is : qtz. 20-25% chl 25-30%	ND		40 50 40×2 90 5×4 0	1/2 3" 1/20×2 1/3 1/10×4 1/8	qtz-chl qtz-chl-py ep-cp×2 qtz-(cp) qtz-chl-pl(ep)×4 qtz-chl-cp	3.0	- only the larger veins are listed	97	95	20	44753	.43	.028		.22
12.19	40			100													
		Saus 45% The qtz. is not readily visible without magnification			50+2 40 35-50×2 40-50×2 60 40	1/16×2 1/8 1/10×2 1/10×2 3" 1/2	qtz-mag×2 qtz-chl-py(cp) chl-ep(cp)×2 chl-ep-py×2 ep-(chl) qtz-py	3.0		107	95	27	44754	.42	.032		.16
15.24	50			110													

GIBRALTAR MINES LIMITED

HOLE NO. E 90-10
SHEET NO. 2 OF 8

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0				70	1/8	qtz-py		Mineralization remains fine grn except for veins of qtz-chl-py - most of the cp occurs as a fine dissem back ground - est.								
			70 WK		40	1/10	qtz-py				90						
					5	1/2	qtz-mag	2.0		117		0	44755	.22	.015	.226	.14
					30	1/3	qtz-mag (cp)										
					5x3	1/10x3	chl-py (cp) x3										
						14"	gg-bx										
3.05	10			120	5-10x3	1/5-1/2x3	qtz x3									2790	
					30	1/8	chl-py		of grade are diff - only minimum est. are given - the rock still has a crushed appearance - a large number of qtz veins are present								
					45	2"	qtz-chl-py										
					40+50	1/4x2	qtz-mag-py x2				90						
			ND.			3'	gg-bx	2.0		127		10	44756	.15	.017		.10
					30x2	1/5-1/8x3	qtz-chl-py-3										
6.10	20			130	45	1/4	qtz										
					30x2	1/5x2	qtz (py) x2		qtz veins are present								
					5x2	1/10-1/8	qtz-py (vug)				95						
					20	1/3	qtz										
			ND		20+2+80x2	1/10 x 4	qtz-chl-py x4	1.5		127		33	44757	.20	.013		.10
					60-70x3	1/5-1/10x3	qtz x3										
					20x2	1/8 x 2	qtz x 2										
9.14	30			140	50	12"	qtz-cp										
					70-80 x 5	1/10 x 5	qtz x 5										
					45+3	1/10x3	qtz x3				90						
			45 WK		50	3'	qtz-chl-carb-py (cp)	2.0		147		20	44758	.16	.010		.12
					90	1/2	qtz-carb										
12.19	40			150	45	2"	qtz-chl-py										
					50-70 x 5	1/10 x 5	qtz x 5										
					5+20	1/2 x 4	qtz-chl-carb-py (cp)				90						
			45 WK		?	2"	qtz-py	8.5		157		27	44759	.16	.009		.14
					30	12"	qtz-chl-carb-py (cp)(mo)										
					10x3	1/10x3	qtz-chl-py (cp) x3										
15.24	50			160	60	1/3	qtz										
					10+60x2	1/10x3	chl-carb-cp x3				95					2773	
					5+3	1/10x2	qtz-carb-py (cp) x2									2755	
			ND.		40+20+50	1/8x3	qtz x3	3.0		167		27	44760	.23	.009		.15
					40	1/8	qtz-py-cp										
18.29	60			170	50+2+20	1/8x3	qtz x3										

GIBRALTAR MINES LIMITED

HOLE NO. E 90-10
SHEET NO. 3 OF 8

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG Foliation	Alteration	Footage	Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0							60 50 30 20+30+15 20×2 60 70 20×2	1/8" 2" 1/2" 1/8×3 1/16×2 1/8 1/2 1/4×2	chl-py qt3-chl-py(cp) qt3-chl-py(cp) qt3×3 chl-cp×2 qt3-chl-py(cp) qt3-py qt3×2	3.0	cp mineralization remains finely dissem. – often associated with the chert sack-like cp veinlets	177	95	27	44761	.33	.019		.18
3.05	10		40 wk			180		20-30×6 20×2 45×2+20 45+30 ? 90×3	1/20-1/10×6 1/8+1/10 1/10×2 1/10×2 2" 1/4+1/10×2	qt3-chl-py×6 qt3(msg)(py) qt3-chl-py×2 qt3-chl-py(cp)×2 qt3-py qt3-chl-py×3	4.0		187	98	27	44762	.40	.019		.17
6.10	20					200														
9.14	30		ND			200		5-10×5 40×3 20	1/10×5 1/10×3 4' 1 1/2' 1/8	qt3-chl-py×5 qt3-chl-py×3 leucocratic zone (py) broken zone qtz-chl-cp (py)	3.0		197	98	23	44763	.16	.011		.10
12.19	40		40 wk			210		40×2 40+60×2 90×4 90+30 30-40×10 20 45	1/20×2 1/2+1/8×2 1/20×4 1/2+1/3 1/10-1/3×10 1/10 1/10	chl-cp×2 qt3×3 chl-py×4 qt3-chl-py(cp)×2 qt3×10 qt3-py(cp) qtz-chl-cp	3.5		207	95	17	44764	.27	.008	-.285 =.2962	.12
15.24	50		ND			220		45+50 10-60×5 45 20×5 40-50×6 40×2	1/8+1/10 1/10-1/3×5 1/4 1/10-1/3×5 1/10-1/4×6 1/8-1/3×2	qt3-chl-py qt3×5 qt3-chl-py qt3×5 qt3-chl-py×6 qt3×3	3.5		217	90	17	44765	.19	.008		.10
18.29	60		45 str			230		40-45×4 45 60×3	1/2-1/4×4 6' 1/10×3	qt3×4 qt3-carb-chl-(py)(cp) qt3-chl-py×3	2.0		227	90	30	44766	.10	.015		.15

GIBRALTAR MINES LIMITED

HOLE NO. E90-10
SHEET NO. 4 OF 8

Meters	Feet	ROCK TYPES AND ALTERATION	∠ TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins ∠ to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blanks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0	a fine grn pale grey rock with ~20 o/o black fresh bio as plates ¼ 1/10" dia	45 mod	240	5	½	qt3(py)(cp)((sp))	1.0	wk. carb. alt'n	237	95	23	44767	.35	.015		.35
3.05	10				10×2	¼+⅓	qt3(cp)×2										
					60×20	1/10×2	qt3-py×2										
					25	3"	qt3-cp										
					80	¼	qt3-py-cp										
			45 mod		50×2×60	1/10 + 1/20×2	chl-cp ×3	1.5		247	90	50	44768	.15	.006		.15
					30×60	1/10×2	chl-py×2										
					5	1"	qt3-py										
					80×6	hlc-½×6	chl-py (sp) ×6										
					60×2	hlc×2	chl-py×2										
6.10	20			250													
			40 wk		300×60×60	1/20×3	chl-py (cp) ×3	1.5	stkwk of cp veinlets up to ½"	257	95	40	44769	.15	.009		.14
					30×3	1/10×3	qt3×3										
					60×2	¼×2	chl (cp)×2										
					10	1½	qt3-chl-py										
					60	6" 12"	qt3-carb-py-(cp) gg-bx										
9.14	30			260													
			ND		10	⅓	qt3-chl-py(cp)	1.0		267	75	0	44770	.07	.002		.10
					5×2	½ + ⅓	qt3(cp) + qt3-py										
						1½	gg-bx										
					30×45×60×2	¼-½×4	qt3×4										
						2'	gg-bx										
12.19	40			270													
			ND		5	¼	qt3-cp	1.0		277	80	40	44771	.07	.006		.10
					45×60×80	¼+½×2"	qt3×3										
					5	1/10	qt3-chl-py(cp)										
					90×10	hlc-½×10	qt3-chl-py(cp)×10										
					40-90×9	⅛-⅓×9	qt3×9										
15.24	50			280													
			ND		15-60×12	½-⅓×12	qt3×12	2.0		287	95	10	44772	.07	.006		.08
					50×2	2" + ½	qt3-chl-py ×2										
					90	1"	qt3-sericite-py										
					80	1½'	chl-py (cp)										
18.29	60			290													

GIBRALTAR MINES LIMITED

HOLE NO. E 90-10
SHEET NO. 5 OF 8

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG Foliation	Alteration	Footage	Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																			
			ND					70-80 x 6 30 40-60 x 8 60 40 x 2 80 10 x 3	6" hle - ½ x 6 ½ ½ x 8 ⅛ ⅛ x 4 ⅛ ½0 x 3	chl-(py) chl-py (cp) x 6 qtz chl-py (cp) x 8 qtz qtz x 2 qtz chl-py (cp) x 3	3.0		297	95	2.0	44773	.14	.007		.15
3.05	10					300														
		• beginning of the gyp zone. - end of cp-(cp) type gash veining	ND					½ 10 x 2 60 30 x 3 40 x 2 5 20 x 3	⅛ ⅛ + ½0 hle ¼ - ½ x 3 ½0 x 2 ½ ½0 x 3	qtz - py qtz - carb - py (cp) x 2 chl - Ho qtz x 3 gyp x 2 qtz gyp x 3	3.0		307	90	3.7	44774	.14	.008		.14
6.10	20					310														
			ND					80 x 3 20 + 80 x 2 5 + 30 stockwks 40	⅛ x 3 ¼ + ½ x 2 ¼ x 2 ½0 - ½ ⅛	gyp x 3 qtz x 3 qtz - chl - py x 2 qtz stockwks + gyp veins qtz - carb - chl - py	1.5		317	98	9.3	44775	.12	.007		.10
9.14	30					320														
			ND					30 + 80 10 x 2 60 30 x 2 60 - 75 x 6 45 - 55 x 9	⅛ + ½0 ½0 x 2 2" ⅛ x 2 ½0 x 2 ½0 - ⅛ x 9	gyp x 2 gyp x 2 qtz (py) qtz - chl - py x 2 qtz - chl - py (cp) x 10 chl - py (cp) x 9	1.5		327	98	9.7	44776	.13	.010		.12
12.19	40					330														
			ND					10 + 70 + 90 5 - 70 x 6 35 + 80 x 3 50 - 70 x 6 80 x 2	½0 + ½ x 2 ½0 - ½ x 6 ⅛ x 4 ¼ x 6 ½0 x 3 2½'	qtz - chl - py x 3 qtz x 6 gyp x 4 qtz x 6 qtz - chl - py (cp) x 2 { qtz + gyp stockwks	1.0		337	98	9.7	44777	.17	.024		.10
15.24	50					340														
			70 - 80 str						3½	qtz and gyp. veins forming stkwks.	1.0		347	100	9.3	44778	.11	.010		.10
18.29	60					350														

GIBRALTAR MINES LIMITED

HOLE NO. E 90-10
SHEET NO. 6 OF 8

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG Foliation	Alteration	Footage	Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																			
			90 Str.			360		90	10	qt_3-ser-chl-carb-gyp-(py) zone	1.0	Py mainly occurs finely dissem. along foln planes	357	95	87	44779	.09	.011		.08
3.05	10																			
			70-80 Str			370		70-80	10'	qt_3-ser-chl-carb-gyp-(py)	1.5		367	93	93	44780	.11	.011		.10
6.10	20																			
			80 Str			380		80	10'	qt_3-(ser)-chl-carb-gyp-(py)	1.0		377	93	93	44781	.11	.014		.08
9.14	30																			
			80 Str			390		80	8'	qt_3-chl-carb-(py)	1.0		387	100	97	44782	.09	.008		.08
								80+3	1/8 x 2	gyp x 3										
								30-60 x 5	0-1/2 x 5	qt_3 x 5										
								3 at 2	1/2 x 2	qt_3-chl-py x 3										
12.19	40																			
			80 Mod.			400		70	1"	qt_3 (cp)	1.0	dark alt'n	397	100	90	44783	.07	.008		.08
								80	1/4 x 1/4	qt_3 (cp) x 2										
								20+60 x 2	1/8 x 3	gyp x 3										
								30 x 2	1/4 x 2	qt_3 x 2										
								70 x 3	1/8-1/4 x 3	gyp x 3										
								20	2"	qt_3-chl-py										
								80	10"	qt_3-ser										
15.24	50							30-60 x 6	1/8-1/3 x 8	qt_3 x 8										
								30+60+20 x 2	1/8-1/3 x 4	qt_3 x 4										
			70-80 Str			410		70-80	7'	qt_3-(chl)-carb (py) } gg+bx.	.5		407	85	13	44784	.09	.007		.10
18.29	60																			

GIBRALTAR MINES LIMITED

HOLE NO. E32-10
SHEET NO. 7 OF 8

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation, Alteration, Footage, Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																
			70-80 Str.		70-80	8'	qt_3-chl-carb-py (cp)	1-5		417	70	50	44785	.10	.006		.12
				420	70×2	½×2	gyp ×2										
					30+20	⅛×2	qt_3-chl-py-cp										
3.05	10				15	½	qt_3-chl-py										
					10×4+60×3	⅛-¼×7	gyp-hem ×7		dark alt'n		95						
			70 Mod		30+70	½×2	qt_3×2	1.0		427		87	44786	.15	.004		.14
					40×3	⅛×2	gyp ×2										
				430	20	⅛	qt_3-chl-py										
6.10	20				45+80	½×2	qt_3-mag ×2										
					10×20	¼+⅓	gyp ×2		Numerous 90° chl-py(cp) sheers								
					45	⅛	qt_3-py (cp)				98						
			ND		Stkwk	⅓-½	qt_3 stkwk	1.0		437		97	44787	.14	.003		.16
					80×2	¼+¼	qt_3-chl-py										
9.14	30			440	70×3	⅛×3	gyp ×3										
					35×4+70×2	⅛-½×6	qt_3×6				95						
					30+20	⅛+¼	qt_3-chl-py (cp) ×2										
			ND		70×4	¼×4	gyp ×4	2.0		447		97	44788	.11	.005		.10
					45+50×2	½+1"+¼	qt_3-chl-py ×3										
				450	60+70	½×2	qt_3-py										
					40-80×6	⅛-½×6	qt_3×6										
					45	⅛	qt_3-chl-py				98						
			ND.		80-70×4	⅛-¼×4	qt_3×4	1.0		457		93	44789	.09	.007		.09
					5°	2'	qt_3-feldspar porph										
15.24	50			460	80×6	⅓-¼×6	qt_3×6										
					70	½	qt_3-mag										
					60-70×9	⅛-½×9	qt_3×9				98						
			70 mod-Str					2.0		467		97	44790	.11	.010		.12
18.29	60			470	70	6'	qt_3-chl-carb-py (cp)										

GIBRALTAR MINES LIMITED

HOLE NO. E80-10
SHEET NO. 8 OF 8

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / UM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0				40×3+3	1/16×3+1/2	qtz-chl-py×4										
					30-55×13	1/4-3/8×10	qtz×10				90						
					50-60×15	1/2-2"×15	qtz×15 (massive qtz floating)	.5				50	44791	.07	.005		.10
3.05	10			480						477							
					50-60×4	1/4-3/4×4	qtz×4										
					70	8"	qtz-carb-chl-py				95						
						1/10-1/2	qtz stockwks	1.0				53	44792	.10	.008		.08
6.10	20			490	40-65×12	1/10-1/4×12	qtz×12			487							
					25	1/2	qtz×py										
					?	5'	zone of gg-bx and lost core				60						
								1.0		495		10	44793	.06	.014		.08
					40-50×3	1/3×1/4×2	qtz×3				95						
9.14	30			500	?	4 1/2	leucocratic zone with N3 slips and py-cp along folu. planes										
		E.O.H 502'								502							
		BQ3.															
12.19	40																
15.24	50																
18.29	60																

GIBRALTAR MINES LIMITED

HOLE NO. E 90-11
SHEET NO. 1 OF 10

LOCATION SAWMILL ZONE BEARING — LATITUDE 32095 N (APPROX. VALUES - FIELD chain & compass survey) CORE SIZE N.Q.W. LOGGED BY G.D. Bysouth
DATE COLLARED June 21, 1990 LENGTH 602' LONGITUDE 49215 E (chain & compass survey) SCALE OF LOG 1"=10' DATE June 27, 1990
DATE COMPLETED June 22, 1990 DIP −90° ELEVATION 2962' (from topomap) REMARKS

BOTTOM DEPTHS: LEACH CAP —; LIM. ZONE 40'; SUPERGENE —

Meters	Feet	ROCK TYPES AND ALTERATION	∨ TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0	Casing to 22'															
		META VOLCANIC SEQUENCE (22'-358') a complex assemblage of rocks varying over short sections in texture and general appearance but predom. dark green in color and andesite or diorite in composition. A typical member is a dark green plag.	80 ∨	30	80 ?	12" 3'	fine grn Q-D broken zone and lost core	<.5	lim. weak to 40'	27	75	17	80201	.01	<.001		.05
3.05	10																
			80 ∨	40	? 45	5' 1/8	gg-bx - lost core (lim) qtz-chl-py	<.5	diaritic rock	37	60	27	80202	.03	<.001		.05
6.10	20																
		porphyry with 1/20-1/10" dia. sauss. phenos in a chloritic matrix. Another is a chl-ep breccia consisting of ep clots up to 1" in a swirled chl matrix. Fine grn	GS Mod	50	80 55>5	1" 2' 2½"+1"	qtz gg-bx qtz-carb x-z	0.5		47	80	67	80203	.03	<.001		.05
9.14	30																
		dense dark green beds, are also common, showing variable degrees of lamination of dark and lighter green material. Included also are numerous zones of medium grn.	NO-TO WK	60	40	1/8	qtz	<.5	mainly a chl-ep breccia	57	85	50	80204	.01	<.001		.05
12.19	40																
		diorite - which may be recrys. andesite or porp. dykes - these zones range from inches to tens of feet in width. Much of this material is identical to Border Phase Diorite	ND	70				<.5		67	75	87	80205	.08	<.001		.08
15.24	50																

GIBRALTAR MINES LIMITED

HOLE NO. E90-11
SHEET NO. 2 OF 10

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation	GRAPHIC LOG: Alteration	GRAPHIC LOG: Footage	GRAPHIC LOG: Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP	BOTTOM DEPTHS: LIM. ZONE	BOTTOM DEPTHS: SUPERGENE	Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	ASSAY RESULTS: % Cu	ASSAY RESULTS: % Mo	ASSAY RESULTS:	ASSAY RESULTS: Estimated Grade
0.00	0	the zone from 48' to 98' prob. represents a bed of meta. limy volcanoclastic sed.s. - the same applies to ~100' to 120'	40 Mod to ND			80		40	2½	ep-garnet-chl(py)(cp) scarn; chl-ep breccia with minor predominate.	.5					77	98	83	80206	.06	.001		.10
3.05	10		ND			90		50 ? 5	12" 24" 3"	chl-qtz-ep (py)(cp) chl-qtz-ep (py) ep(py	.5				mainly chl-ep-br with minor scarn zones	87	98	57	80207	.02	<.001		.05
6.10	20		50 Mod.			100		40	10"	ep-chl(py)(cp)	<.5					97	98	83	80208	.08	<.001		.05
9.14	30		50 Mod.			110		30-40×3 45	⅛-⅛×3 2'	ep-qtz-py×3 chl-ep-qtz-(py) scarn	.5					107	100	87	80209	.04	<.001		.05
12.19	40		50? wk			120		60? 50	8' ⅛	ep-chl-garnet-py (cp) scarn qtz-py } cherty light green zone	4.0					117	95	93	80210	.29	.002		.20
15.24	50		45 Mod.			150		80	⅓	ep-py	<.5					127	100	80	80211	.03	<.001		.05
18.29	60																						

GIBRALTAR MINES LIMITED

HOLE NO. E 90-11
SHEET NO. 3 OF 10

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0	much of the rock from ~118' to ~220 is fine grn and sl. cherty - often with streaks of pale grey qtz-spar material - poss meta tuff beds.? The recorded foln angle	ND	140	50 60 5 40 70 x 2	2" ½ 2" 6" ¼ - ⅓	qtz - ser - py (cp) chl - py qtz chl - carb - py qtz x 2	1.0		137	98	47	80212	.04	.001		.08
3.05	10																
		may be the bedding angle	ND														
		ep-pied breccia + minor pale grey frags.		150	45 x 2 40-50 x 4	24" ¼ x 2 1/10 x 4	ep-pied (py) qtz - carb - chl - py (cp) x 2 qtz - chl - py x 4	1.0		147	100	40	80213	.02	.001		.08
6.10	20																
			ND		20	1"	qtz	.5		157	98	67	80214	.05	<.001		.08
9.14	30	at ~160 the rocks		160	30	3"	qtz - ser - py (cp)										
		changes from a predom. sauz. phase to dark alt'n which persists to ~	60 WK		20-40 x 4 5-20 x 3 60 x 4	1/10 x 10 1/10 x 3 hle - 1/20 x 4	chl - py - cp x 4 chl - py (cp) x 3 chl - py (cp) x 4	1.0		167	100	80	80215	.04	<.001		.12
12.19	40			170													
			70 Mod		5-40 x 6 "	1/20 - 1/10 x 6 6"	chl - py x 6 qtz - chl - carb - py (cp)	1.0		177	100	73	80216	.02	<.001		.08
15.24	50			180													
			45-70 Mod		5-20 x 6	1/20 x 6	qtz - chl - py x 6	1.0		187	95	60	80217	.04	<.001		.05
18.29	60			190													

GIBRALTAR MINES LIMITED

HOLE NO. E90-11
SHEET NO. 4 OF 10

Meters	Feet	ROCK TYPES AND ALTERATION	∨ TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0																
			30 wk		5-20 x 2	1/4 + 1/3	qtz-carb-chl-py (cp) x 2		the core contains very fine py (cp) - py and grade estimates may be low - ie. py may be 1% higher.		98						
					5 x 3	1/20-1/10 x 3	qtz-chl-py (cp) x 3	2.0		197		63	80218	.06	.001		.14
3.05	10	zones (beds?) of cherty		200	?	2'	chl ((cp))										
		rx in places "streaky" with ragged felsic laminae in dark green chloritic material. (190'-228') - in places resembles a migmatite.			20	1/4"	chl-carb-py (cp)										
			20 mod		15 x 3	1/8 + 1/15 x 2	qtz-chl-carb-py (cp) x 3				95						
					5 x 2	1/10 x 2	chl-py (cp) x 2	1.5		207		60	80219	.06	.002		.10
6.10	20			210	5-10 x 5	1/20 x 5	chl-py (cp) x 5										
					5 x 3	1/20 x 3	qtz-chl-py (cp) x 3										
			30-40 Mod		5 x 4	1/10 x 4	chl-py (cp) x 4	1.5			95						
					30 + 10 x 2	1/3 + 1/10 x 2	qtz-chl-py x 3			217		67	80220	.06	.001		.10
9.14	30			220													
					50 x 3	1/20 x 3	chl-py x 3										
			50 Mod		30	1/10	qtz-chl-carb-py				100						
					20	1/10 + 1/8	chl-carb-py	1.0		227		87	80221	.07	.001		.05
12.19	40			230	20-30 x 3	1/20 x 3	chl-py x 3										
					40 x 2	1/10 x 2	chl-carb-py x 2										
			50 wk		30 x 3	1/3-1/4 x 2	qtz-carb-chl-py x 2				95						
					50	1/2	chl-carb-py	2.5		237		53	80222	.15	.001		.10
					50	1/2	qtz-carb-chl-py (cp)										
15.24	50			240	30 + 50	1/2 x 2	qtz-carb-py - cp x 2										
					45	1/2	qtz-chl-py										
		chl. zone			70	1/8	chl-py										
			50 wk		30 x 2 + 50 x 2	1/10 x 2	qtz-carb-chl-py (cp) x 4				95						
					40 x 2	1/20 x 2	qtz-carb-chl-py x 2	2.5		247		83	80223	.08	<.001		.10
					70	1/2	qtz-py										
					60	1/4	qtz-carb-chl-py (cp)										
18.29	60			250	50 x 3	1/8 x 5	qtz-chl-carb-py x 3										
					55	c.	chl-carb-qtz-py										

GIBRALTAR MINES LIMITED

HOLE NO. E 90-11
SHEET NO. 3 OF 10

Meters	Feet	ROCK TYPES AND ALTERATION	∨ TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0	chl zone	70 Nod		60-70×10	1/10-1/4	qt₃-chl-carb-py (cp) ×10	2.0			95	40	80224	.06	.001		.05
					85×2	1/8×2	qt₃-chl-py×2			257							
3.05	10	from ~ 240 to 336		240													
		the rock is mainly chl-rich with abundant carb. — this may be a chl-carb alt'n zone or a meta basalt — in places, chl-carb. zones have been outlined but the entire	60 Str		0°	1/3	qt₃-carb-py				95	53	80225	.02	.001		.05
					70	2"	chl (py)										
					60?	2'	chl-carb. zone	.5		267							
6.10	20			270	30°	4'	pale grey-brown weathering qt₃-carb (chl)(py) zone*		* ~ 50% brownish carb.								
		240 - 336 interval may be a chl-carb zone. Note that the incr. chl and carb actually starts at 160' with a loss of ep and Saus.	15-80 Str		80-15	10'	qt₃-(chl)-ser-carb-py	1.5			98	80	80226	.01	.001		.05
9.14	30			280						277							
			45 Str		45	9'	qt₃-chl-(ser)-carb-py	1.0			100	97	80227	.05	.001		.08
					45	1/10	qt₃-chl (cp)			287							
12.19	40			290													
			45-80 Str		45-80	9'	qt₃-carb-chl (ser) - py (cp) ((el))	1.5			98	80	80228	.22	.007		.14
15.24	50			300						297							
			70 wk		10+60	1/8×2	qt₃-carb-py (cp) ×2	2.0	dark chl-rich zone with finely dissem. py (cp)		100	97	80229	.21	.008		.12
					20×2	1/10×2	qt₃-carb-py (cp) ×2										
18.29	60			310						307							

GIBRALTAR MINES LIMITED

HOLE NO. E 90-11
SHEET NO. 6 OF 10

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE / Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0		70-80 WK	330	45 60 50-70 x 10 70	1/8 1 1/2 1/20 - 1/8 x 10 4'	chl-py (cp) chl-carb-py (cp) qtz-carb-chl-py x 10 chl-carb-py (cp)	2.5		317	98	87	80230	.12	.003		.14
3.05	10		60 WK-Mod	330	70 30x3' 50-60 x 4 60	1/8 1/20 x 3 1/10 x 4 5'	chl-py qtz-carb-py qtz-carb-py (cp) x 4 chl-carb (qtz)-py (cp) zone	2.0		327	98	80	80231	.08	.002		.12
6.10	20		50-60 Mod	340	50-60	7'	chl-carb-qtz-py ((cp))	1.0		337	90	30	80232	.09	.004		.10
9.14	30		50 Mod	350	50	3' 10'	chl-carb ((cp)) chl-carb-py (cp)	1.0		347	95	27	80233	.10	.003		.15
12.19	40	358	60 Mod	360	60 60-70 x 7	7' 1/20 x 7	chl-carb-py-cp chl-py x 7	1.5		357	90	17	80234	.12	.002		.18
15.24	50	BORDER PHASE DIORITE (358'-602') a fine to med grn rx (comp. grn size ~ 1/20" dia) with a crushed and sheared texture	50 WK	370	5-30 x 15 60 : 60	1/20 x 10 1/4 8" 1"	chl-py x 10 chl-py ep (py) chl-py	2.0		367	95	20	80235	.11	.003		.08
18.29	60	over.															

GIBRALTAR MINES LIMITED

HOLE NO. E 90-11
SHEET NO. 7 OF 10

Meters	Feet	ROCK TYPES AND ALTERATION	∨ TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0	general comp:			5-30×3	1/4-1/3×3	chl-carb-py (vug) ×3										
		: qtz 10-20 o/o as interstit. grns not visible without magnification	ND		60+70	1/4×2	chl-carb-py ×2	3.5			95	23	80236	.14	.005		.12
		plag. ~50 o/o as anhedral saus. grns up to 1/10"			60-70×6	1/10-1/4×6	chl-carb-py } mainly a chl-ep-bx			377							
3.05	10	chl. ~20-30 o/o as ragged wisps and grns		380	?	12"	white qtz-porp. }										
		ep up to 20 o/o as short veinlets, gash veinlets and clots often carrying fine dissem. cp. - in places the rock appears crushed and "healed" by ep.			?	2"	qtz }										
					20+30	1/4+1/10	chl-cp ×2				95						
			45 WK		50×3	1/8×3	carb-qtz-py×3										
					20+5×2	1/8×3	chl-carb-py (cp)×3	5.0				60	80237	.25	.005		.35
					45×5	1/10×5	chl-carb-py×5			387							
					20×2	1/10×3	chl-carb-py-cp×3										
6.10	20			390	30×2	1/8×2	chl-carb-cp×2										
					40×3	1/2+1/4×2	chl-carb-py (cp)×2										
					5×2+40-60×4	1/10-1/4×6	chl-carb-py (cp)×6				100						
					45	1"	chl-carb-py (cp)										
			70 WK		5×2	1/8×2	chl-carb-py-cp×2	6.0				57	80238	.31	.010		.30
					70	3 1/2'	chl-(carb) py (cp)			397							
9.14	30			400													
					30×5	1/10×5	qtz-chl-py×5		soft vuggy core.		100						
			ND		60-80×3	1/20×3	chl (cp)×3										
					80	2 1/2'	chl-carb-py (cp)	5.0				83	80239	.13	.011		.15
					20	1"	qtz-chl-py			407							
12.19	40			410	40×10	1/20-1/10×10	qtz-chl-py×10										
					5×2+60	1/8+1/3×2	qtz-carb-py (cp)×3				100						
			ND		40-45×4	1/4×4	qtz-chl-py×4										
					45	1/2	qtz-chl-py	4.5				87	80240	.16	.014		.12
					40	1/3	qtz			417							
					30-60×12	1/10-1/4×12	qtz-chl-py×12										
15.24	50	ep appears to be associated with ep clots wisps and veinlets as fine disseminations		420													
					30	1/3	qtz-chl-py-cp				100						
					30×2	1/10×2	qtz-chl-py×2										
					5×3	1/10×3	qtz-chl-py×3										
					45×2	1/10×2	qtz-chl-py (cp)×2	3.5				73	80241	.20	.015		.12
					45	1/3	qtz-chl-py			427							
						6"	gg-bx										
18.29	60			430													

GIBRALTAR MINES LIMITED

HOLE NO. E90-11
SHEET NO. 8 OF 10

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG Foliation	Alteration	Footage	Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0							45	1/4	qt3										
								20x3	1/10x3	qt3-py x3										
			ND					40	1/4	qt3-carb-py(cp)	5.5			98						.16
								35	1/4	py			457		63	80242	.15	.009		
3.05	10					440		25x2	1/8+1/4	qt3-ser-py(cp)										
								5x2	1/10	qt3-chl-py										
								60x3	1/10x3	qt3-ser-py x3										
								70	1/2	qt3										
								20x3	1/10x3	chl-py x3				98						
			ND					20	1/3	qt3-chl-py(cp)	4.0									.25
								20	1/4	qt3-chl-py(cp)			447		67	80243	.14	.006		
								15x2	1/4+1/2	qt3-ser-py-cp										
6.10	20					450		10+5x3	1/2+1/10x3	qt3-ser-py + qt3-chl-py x3										
								45x2	1/10x2	chl-py(cp) x2										
								15x3	1/20x3	chl-py(cp) x3										
								5x2+10	1/10x3	chl-carb-py x3				100						
			ND					5x3	1/8+1/10x3	qt3-carb-chl-py x3	3.6									.14
								20x2	1/3 x2	qt3 x2			457		40	80244	.12	.003		
								20	3"	qt3-ser-py(cp)										
9.14	30					460		20+10	1/2	qt3										
									1/10x2	qt3-chl-py x2										
								5-10 x5	1/10-1/4 x5	chl-carb-py(cp) x5										
								5	1/3	chl-carb-py				95						
			ND					10x2	1/2+1/4	carb-py x2	4.0									.12
								20x2	1/4+1/10	chl-py x2			467		57	80245	.11	.003		
12.19	40					470		45+5x2	1/4+1/8x2	chl-py(cp) x2										
								20x3	1/10 x3	qt3-chl-py x3										
								30x2	1/10 x2	qt3-chl-py x2				95						
			ND					5	1/4	qt3-chl-py(cp)	3.5									.10
								10x2	1/10x2	qt3-chl-py x2			477		57	80246	.14	.004		
15.24	50					480														
														95						
			ND					5 x2	1/4 + 1/10	chl-carb-py x2	3.0									.10
													487		47	80247	.28	.006		
18.29	60					490		5x3	1/10 x3	qt3-chl-py (vug) x3										

GIBRALTAR MINES LIMITED

HOLE NO. E90-11
SHEET NO. 9 OF 10

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG: Foliation / Alteration / Footage / Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS: LEACH CAP / LIM. ZONE / SUPERGENE — Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS: SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0				5	1/10	qt3-py(cp)										
					60+10+2	1/4+1/2+2	qt3 ((cp))x3				98						
					45+2	1/8+2	qt3-mag+2										
			ND		15	1/4	qt3	2.5				83	80248	.24	.010		.12
					50+30+2	1/10+3	qt3-chl-py+3			497							
					45	1/10	chl-py										
3.05	10			500	5	1/2	ep-py(cp)										
					40	1/8	qtz-chl-py(cp)										
					60	2"	chl-py				98						
					45	1/4	qt3-ser-cp										
			ND		30?	4"	qt3-chl (cp)	3.0				53	80249	.21	.006		.20
					45	1/8	chl-carb-cp			507							
6.10	20	the core contains numerous		510	5x4	1/10x4	chl-pyx4										
		short veinlets and goshes			5x2	1/10x2	qt3-chl-pyx3										
		of ep - sometimes vugs			80	3"	2" leucocratic zone				98	3					
		with qt3 and fine ep.			80		qt3-ep-chl-py										
		- similar to E90-10 and	ND		5x3	1/4-1/8-1/10	chl-py (cp)x3	3.5				50	80250	.17	.003		.10
		the bottom of E90-1			30x3	1/10x3	chl-pyx3			517							
		(500 - 602')			5	1/2	qt3-chl-py(mag)										
9.14	30	- the ep forms 15-30%		520	?	2"	ep-qt3										
		of the rx. and appears			5x3	1/8-1/10x3	qt3-chl-py x3				98	5					
		to incr. with depth			45x3	1/2-1/4	qt3-ser-py x2										
			ND		60x2	3"+1	qt3-ser-py x2	4.5				43	80251	.19	.003		.10
					?x3	3"+2"x2	qt3-ser-py x3 - broken zone			527							
12.19	40			530	70-80x6	klo-1/10x6	ep-cp x6										
					20+10+60x2	1/10x4	chl-py (cp) x4				90	7					
			ND		10x2	1/4+1/10x2	qt3-chl-ep-py (cp) x2	2.5				57	80252	.13	.003		.14
					60x2	1/8x2	qt3-ser-py x2			537							
					50x2	1/4x2	qt3-chl-carb-py (cp) x2										
15.24	50			540	45x7	1/10x7	chl-py (cp) x2										
					20+30+50	1/8+1/4x2	qt3-chl-py (cp) x3				95	18					
					30x3	1/4x3	qt3-chl-py x3										
								4.0				60	80253	.10	.002		.12
					20-30x6	1/10-1/4x6	qt3-chl-py (cp) x6			547							
					15	1/2	qt3-ser-py										
18.29	60			550	5-10x8	1/20-1/8x8	qt3-chl-carb-py x8										

GIBRALTAR MINES LIMITED

HOLE NO. E90-11
SHEET NO. 10 OF 10

Meters	Feet	ROCK TYPES AND ALTERATION	< TO CORE FOLIATION	GRAPHIC LOG Foliation	Alteration	Footage	Structure	Veins < to Core Axis	Width of Vein	Mineralization	Est % Py	BOTTOM DEPTHS LEACH CAP / LIM.-ZONE / SUPERGENE Remarks	Footage Blocks	Estimated Core Recovery	R.Q.D.	ASSAY RESULTS SAMPLE NUMBER	% Cu	% Mo		Estimated Grade
0.00	0							5×2	1/10×2	chl-py×2				80	1					
								4±	1/2	qtz-chl-py(cp)			554							
			NS					35	1/10	qtz-chl-py-ap	3.0				7	80254	.07	.003		.05
								20×2	1/20×2	qtz-chl-py×3				85						
								5±	1/6	chl-py										
3.05	10					560		2	1/2	qtz			564							
								30×2	1/8×2	qtz-chl-py×2					24					
								10×2	1/2+1/2	qtz×2				100						
			ND								2.5				73	80255	.10	.005		.05
								20×2	1/20×2	qtz-chl-py×2			567							
6.10	20					570		25×2	1/10×2	qtz-chl-py(cp)×2										
								20×2	1/8×2	qtz×2				98	20					
								70	1/3	qtz										
		chl-ep lx from 575- to ~590 with a few Q.V. frags.	NS					60×2	1/6+1/10	qtz-chl-py×2	1.5				47	80256	.08	.004		.05
								20×2	1/4×3	qtz×3			577							
9.14	30					580		1±	1"	qtz-py										
								30	1/4	chl-py				95	13					
			ND								1.0				43	80257	.11	.007		.10
								60	1/4	qtz-chl-py			587							
12.19	40					590		20+25	1/10×2	qtz-py(vug)×2										
								15+20	1/3+1/4	qtz-chl-py				98	10					
								20	1/2	qtz-serr-py			594							
			N/S					5-80×3	1/4+1/3×2	qtz×3	2.0				33	80258	.17	.005		.05
								60×2	1/8+1/10	qtz-chl-py×2				95						
15.24	50					600		80+20×2	1/3×3	qtz×3										
		E.O.H. 602'						20	1/2	qtz-chl-carb-py			602							
		90B																		
18.29	60																			

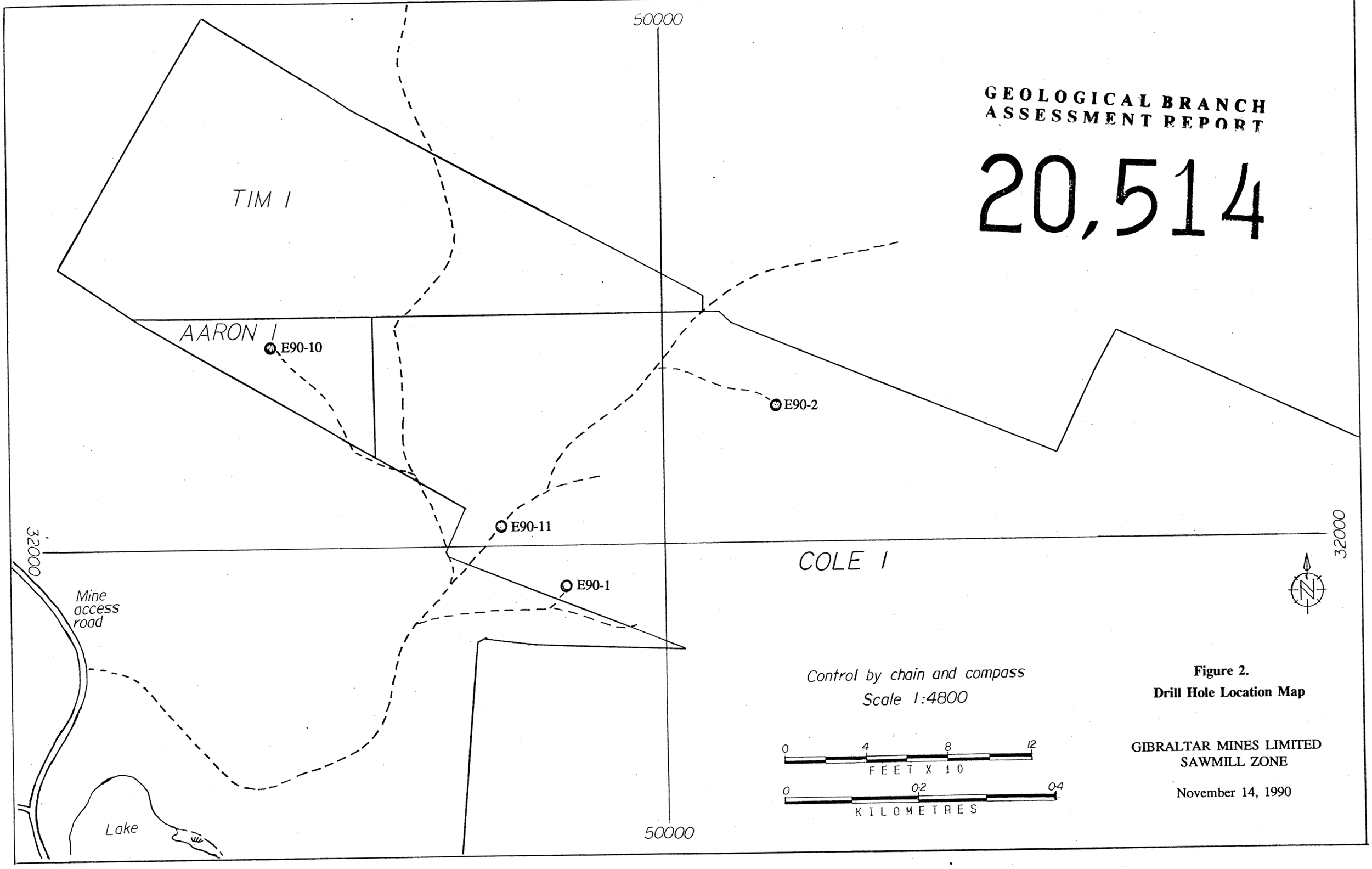


Figure 2.
Drill Hole Location Map

GIBRALTAR MINES LIMITED
SAWMILL ZONE

November 14, 1990

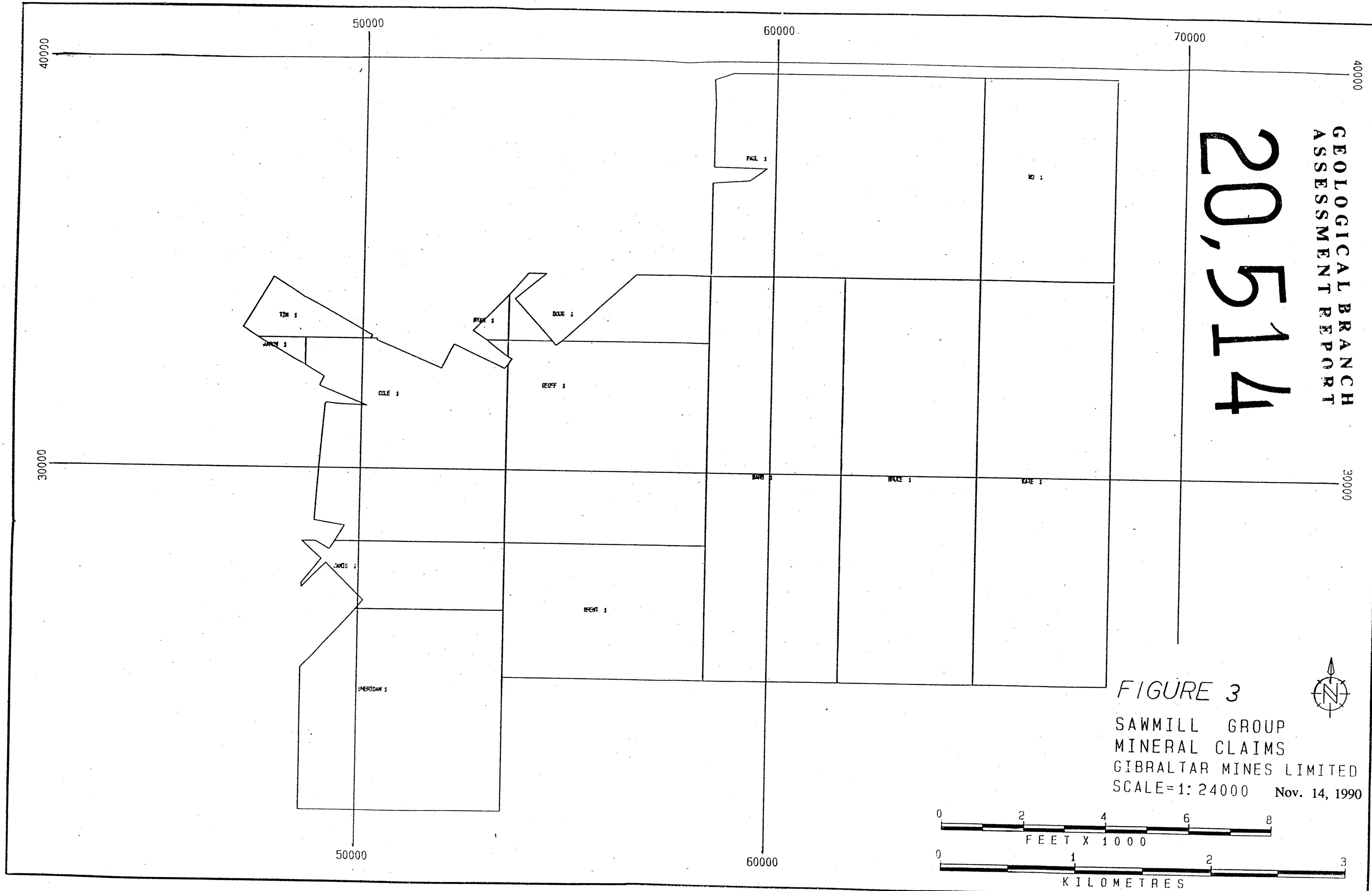


FIGURE 3

SAWMILL GROUP
MINERAL CLAIMS
GIBRALTAR MINES LIMITED
SCALE=1: 24000 Nov. 14, 1990