

87-74 -15796

DIAMOND DRILL REPORT
ON THE
GREY GROUP

Cariboo Mining Division

93 B / ~~100~~ 9W

(Latitude $52^{\circ} 31.7'$, Longitude $122^{\circ} 18.4'$)

OWNER AND OPERATOR
GIBRALTAR MINES LIMITED

FILMED

McLEESE LAKE, B.C.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,796

Author: G. D. Bysouth

Submitted: February 25, 1987

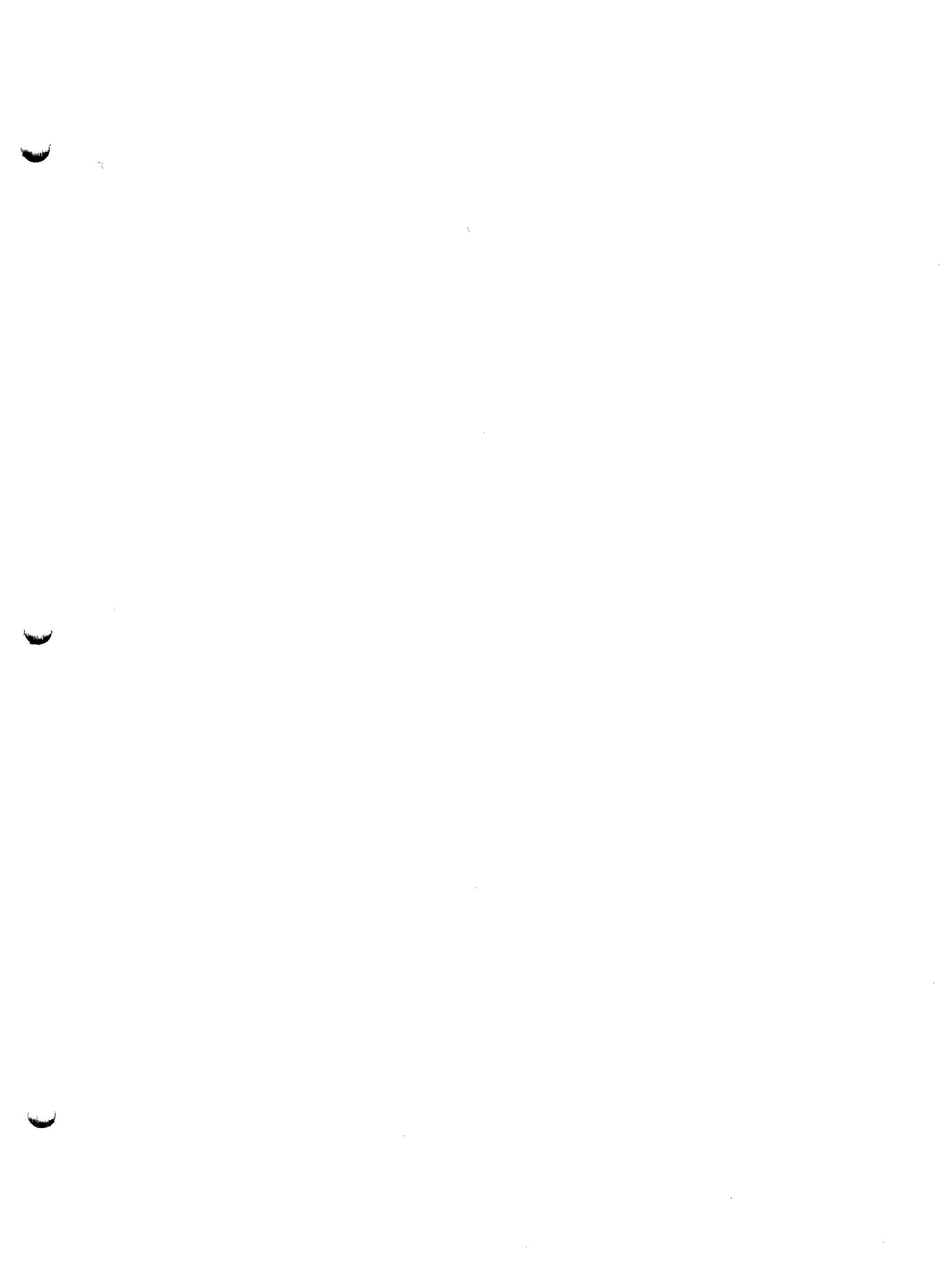


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Drill Log: Hole 86-54

Drill Log: Hole 86-55

Drill Log: Hole 86-56

Drill Log: Hole 86-57

Drill Log: Hole 86-58

Drill Log: Hole 86-59

1 INTRODUCTION

The Grey Group is part of the Gibraltar Mines Limited permanent property. It lies west and northwest of the Gibraltar Mines concentrator and includes part of the Gibraltar East ore body. Main access to the property is via a paved road from McLeese Lake, approximately 20 km. to the south. The general location of the claims is shown in Figure 1.

The older claims of the Grey Group have a history in common with other claim groups of the Gibraltar Mines property. Complete details of history are provided in a number of reports listed in the attached bibliography.

This report covers a diamond drill program aimed at testing a possible extension of the Gibraltar East ore body. Seven vertical N.Q. diamond drill holes totalling 3,281 feet (999 meters) were completed during the period September 17 to September 27, 1986 by Frontier Drilling Ltd. of Kelowna, B.C. The core is stored at Gibraltar Mines Limited.

2 MINERAL CLAIMS

Claims and leases of the Grey Group are shown in Figure 2. Information on them is tabulated below. All of these claims belong to Gibraltar Mines Limited and the southern portion of these adjoins claims of the Gibraltar Mines permanent property.

GREY =====		GROUP MINERAL CLAIMS			MINERAL LEASE
NAME	RECORDED DDMMYY	RECORD NUMBER	UNITS		
AL # 1	020764	28447	1		
AL # 2	020764	28448	1		
AL # 3	020764	28449	1		
AL # 4	020764	28450	1		
AL # 6	020764	28452	1		
EV #17	170166	31741	1		
EV #19	170166	31743	1		
EV 21	140666	36364	1		
EV 22	140666	36365	1		
GIB #18FR	161271	65176	1		
HY 1	010578	00571	4		
HY 3	120680	01711	9		
HY 4	010578	00573	6		
HY 8	100630	01565	3		
HY 9	100680	01666	2		
HY 10	100630	01567	12		
HY 20	240331	03247	2		
HY 22	020185	06693	2		
IT 3	060471	01680	1		
IT NO 1	140266	32619	1		
IT NO 4	140266	32622	1		
IT NO 5	140266	32623	1		
IT NO 6	140266	32624	1		
IT NO 8	140266	32626	1		
JAN NO5	100464	27408	1		
JAN NO6	100464	27409	1		

GREY GROUP MINERAL CLAIMS

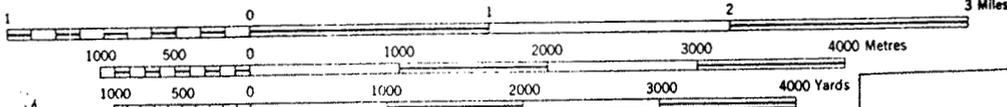
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NAME	RECORDED DDMMYY	RECORD NUMBER	UNITS	MINERAL LEASE
PINETREE#1	040767	43029	1	
PINETREE#2	040767	43030	1	
PINETREE#3	060967	43488	1	
PINETREE#4	060967	43489	1	
PINETREE#5	060967	43490	1	
PINETREE#6	060967	43491	1	
STU #5 FR	180769	52932	1	
SUMMIT NO7	200764	28508	1	
SUMMIT NO8	200764	28509	1	
VAL NO 1	180366	33849	1	
VAL NO 2	180366	33850	1	
VAL NO 4	180366	33852	1	
DOT NO2	030366	34978	1	3596 M34
DOT NO3	030366	34979	1	3596 M34
DOT NO4	030366	34980	1	3596 M34
DOT NO5	030366	34981	1	3596 M34
EST #5 FR	200571	62403	1	3596 M34
PAN NO4	040562	25794	1	3596 M34
PAN NO5	040562	25795	1	3596 M34
RUM #79 FR	010670	58239	1	3596 M34
ZEPHYR # 1	090162	25574	1	3596 M34
ZEPHYR # 3	090162	25576	1	3596 M34
ZEPHYR # 5	090162	25578	1	3596 M34
GG 81	220465	29748	1	3597 M35
GIB #7	200571	62410	1	3597 M35
ZEPHYR # 7	090162	25580	1	3706 M44
IT NO11	140266	32629	1	3707 M45
BIT #68	211068	48107	1	3708 M46
CREST #1FR	090769	52910	1	3708 M46
GIB #1 FR	200571	62393	1	3708 M46
GIB #2	200571	62405	1	3708 M46
GIB #3	200571	62406	1	3708 M46
GIB #4	200571	62407	1	3708 M46
GIB #5	200571	62408	1	3708 M46
GIB #6	200571	62409	1	3708 M46
JAN NO4	100464	27407	1	3709 M47
PAN #7	010266	35738	1	3710 M48
PAN #8	010266	35739	1	3710 M48
EST #6 FR	200571	62404	1	4150 M65
GIB 21FR	210672	66784	1	4150 M65
JAN #2 FR	220171	61461	1	4150 M65
PAN NO1	040562	25791	1	4150 M65

TOTAL UNITS 100

SCALE 1:50,000

1.25 inches to 1 mile approximately



CONTOUR INTERVAL 100 FEET
 Elevations in Feet above Mean Sea Level
 North American Datum 1927



HAY RANCH
 I R No 2

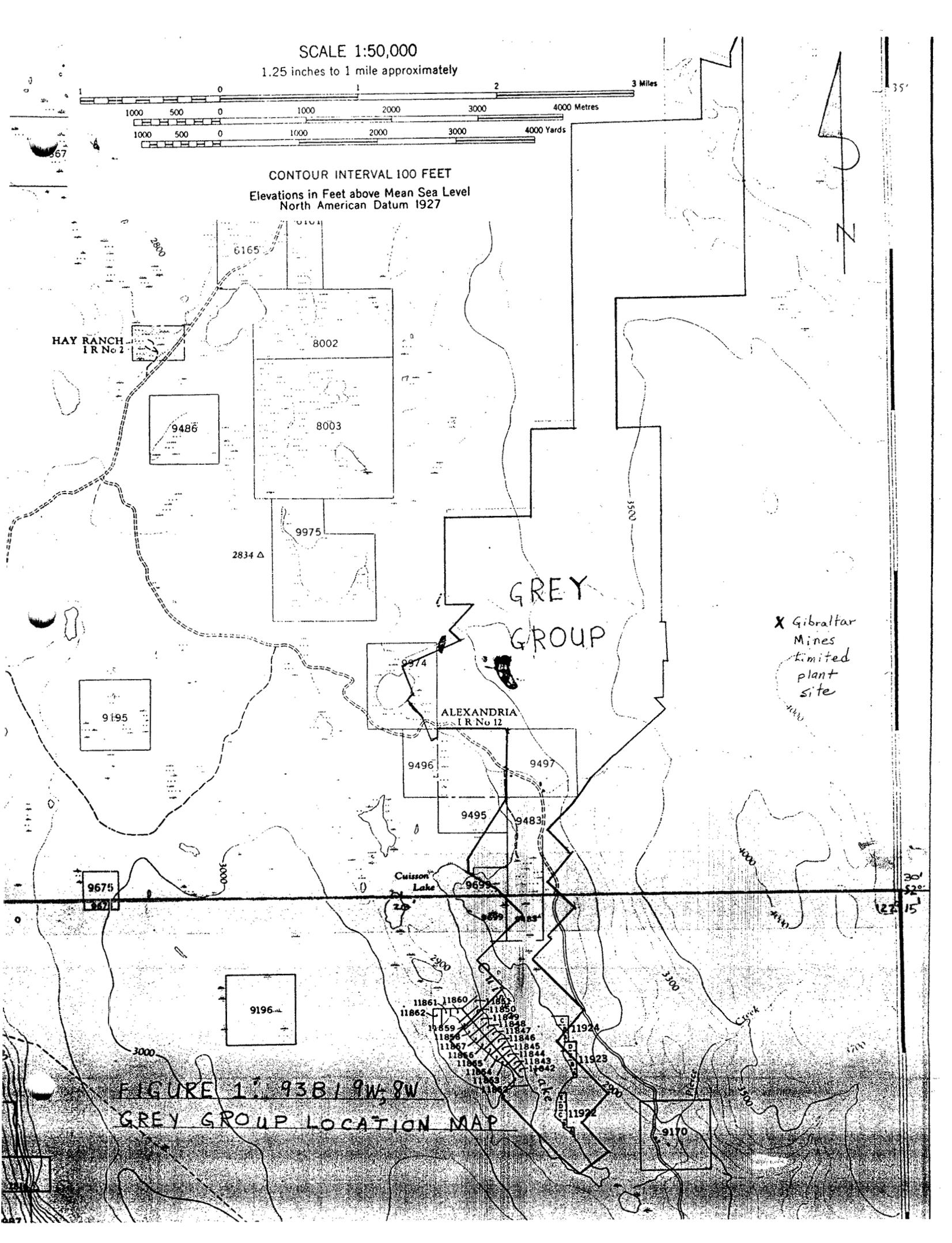
GREY
 GROUP

X Gibraltar
 Mines
 Limited
 plant
 site

ALEXANDRIA
 I R No 12

Cuisson Lake

FIGURE 1. 93B/9W, 8W
 GREY GROUP LOCATION MAP



3 GEOLOGICAL DISCUSSION

The purpose of this section is to provide a brief geological background for the following description and analysis of drilling results. Complete details on geology and mineralogy can be found in several reports on the Gibraltar deposits. (See bibliography.)

Recent work by Gibraltar geologists has revealed the Granite Mountain pluton is divisible into at least three major phases. The first, which has been referred to as the Granite Mountain Phase Quartz Diorite, forms the main body of the pluton, and is readily recognized by an unusually high quartz content (about 45%) and relatively coarse grained texture. The second, which has been called the Mine Phase Quartz Diorite, appears to form a thin outer shell about the Granite Mountain Phase and is characterized by a normal quartz diorite composition with about 30% quartz. The third, which has been referred to as the Border Phase Diorite, appears as a complex assimilative-type contact rock formed between the Mine Phase Quartz Diorite and intruded Cache Creek Group rocks. All of these rocks have undergone pervasive saussuritization and chloritization which had preceded the period of ore deposition. The ore mineralization is confined almost entirely to the Mine Phase Quartz Diorite close to, and within, the Granite Mountain Phase contact.

The Mine Phase Quartz Diorite has undergone pronounced shearing deformation. Most of the rock is foliated, and in places, strongly folded. Sulfide and alteration mineralization shows a strong correlation with the deformation. That is, the sulfides pyrite, chalcopyrite and molybdenite are invariably accompanied by various combinations of quartz, sericite, chlorite, epidote and carbonate and are, in turn, confined almost entirely to deformational structures such as small shears, large shear zones, foliation planes, short veins and various dilatant structures.

4 DRILL PROGRAM

4.1 Objectives

The purpose of this drill program was to test a strong I.P. anomaly which lay along the logical strike projection of the Gibraltar East ore zone. Of particular interest, was a strong shear zone containing massive sulfides, which had yielded exceptionally rich ore in the earlier years of production.

4.2 Results

The drill hole locations are shown in Figure 3. All copper values reported here, and in the logs are for total copper. All pyrite assays are visual estimates. *Assays were done in Gibraltar lab. by standard AA method.*

1 foot = 0.305 m

Drill hole 86-53 was cased to 20-feet and drilled to 508-feet. The host rock throughout the hole was Mine Phase Quartz Diorite which was remarkably barren of sulfides even though some quartz-chlorite-sericite shear zones were intersected.

Drill hole 86-54 was cased to 50-feet and drilled to 503-feet. This hole was also confined to Mine Phase Quartz Diorite but two narrow mineralized zones were intersected: the first, from 80- to 100-feet, gave 20-feet of .37% copper and the second, from 390- to 420-feet gave 30-feet of .22% copper. The mineralization was confined to quartz-chlorite-sericite shears and shear zones accompanied by up to 3% pyrite.

Drill hole 86-55 was cased to 22-feet and drilled to 500-feet. From 22- to 64-feet a normal Mine Phase was encountered, followed by a mixture of leucocratic zones, normal quartz diorite and silicified quartz diorite down to 282-feet. At 282-feet the Granite Mountain Phase Quartz Diorite was intersected down to the bottom of the hole. No significant sulfide mineralization was encountered.

Drill hole 86-56 was cased to 40-feet and drilled to 508-feet. This hole went through normal Mine Phase down to 267-feet where it intersected the Granite Mountain Phase. The actual contact appeared to be marked by a 13-foot zone of sheared rock. Only certain sections of this hole were assayed. The only significant mineralization was 30-feet of .25% copper contained in a quartz-sericite shear zone, accompanied by 3-5% pyrite.

Drill hole 86-57 was cased to 50-feet and drilled to 496-feet. The hole was in normal Mine Phase from 50- to 395-feet, and in Granite Mountain Phase from 395-feet to the end of the hole. The contact appeared gradational. A quartz-sericite shear zone was intersected from 150- to 250-feet which gave 100-feet of .37% copper. This mineralization was accompanied by massive pyrite, averaging about 17% across the total interval. Another mineralized zone was found from 370- to 410-feet which gave 40-feet of .37% copper. This mineralization was related to a series of small quartz-sericite shears and one 8-foot quartz-sericite-chlorite shear zone. Pyrite ranged between 2% and 4%.

Drill hole 86-58 was cased to 80-feet and abandoned at 269-feet. The hole was confined entirely to a large fault zone. Host rock was Mine Phase Quartz Diorite. No mineralization was encountered. The hole was not assayed.

Drill hole 86-59 was cased to 31-feet and drilled to 505-feet. The host rock throughout the hole was Mine Phase Quartz Diorite which was almost completely barren of sulfides. The hole was not assayed.

4.3 Interpretation

The only significant ore grade mineralization was the 100-feet of massive sulfides intersected in drill hole 86-57. This ore lies directly along the strike of similar mineralization presently exposed in the Gibraltar East pit, and there is an obvious possibility that the two are connected. If this is so, the massive ore would lie north of drill hole 86-54, and the narrow ore zones intersected in this hole may be outliers of the massive mineralization.

Drill holes 86-55, 86-56 and 86-57 indicate the Granite Mountain Phase contact lies north of the drilling area, probably no more than 1,000-feet.

1 ft = 0.305 m

5 STATEMENT OF EXPENDITURES

September, 1986 Diamond Drilling, Grey Group.

(a) Drilling Costs

Direct Footage Charges:

86-53	508'	@ \$13.00/foot	=	\$ 6,604.00
86-54	503'	@ \$13.00/foot	=	\$ 6,539.00
86-55	500'	@ \$13.00/foot	=	\$ 6,500.00
86-56	508'	@ \$13.00/foot	=	\$ 6,604.00
86-57	496'	@ \$13.00/foot	=	\$ 6,448.00
86-58	263'	@ \$13.00/foot	=	\$ 3,419.00
86-59	<u>503'</u>	@ \$13.00/foot	=	<u>\$ 6,539.00</u>
	3281'			\$42,653.00

Man and Machine Hours

9 man hrs. @ \$20/hr.	=	180.00
3 drill hrs. @ \$30/hr.	=	90.00
9 tractor hrs. @ \$40/hr.	=	<u>360.00</u>
		630.00

Lost Equipment

1 NW casing shoe @ \$243.00	=	243.00
4 10' NW casing @ \$136.64	=	546.56
2 NQ core bits @ \$481.50	=	<u>963.00</u>
		\$ 1,752.56

Total Drilling

\$45,035.56

(b) Vehicle Costs

1986 Rental 4x4		
Sep 8 - 12 2 days @ \$35.40		\$ 70.80

(c) Assay Costs

206 Cu - MoS ₂ assays @ \$4.40/assay		\$ 906.40
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(d) Supplies

Core boxes: 138 boxes @ \$6.00/box	=	\$828.00
Tags, bags, etc.	=	<u>82.00</u>
		\$ 910.00

(e) Personnel Costs

Core Logging, Interpretation

G. D. Bysouth

Oct 9	8 hrs.	
Dec 8	8 hrs.	
Feb 18/87	<u>8 hrs.</u>	
	24 hrs. @ \$31.00/hr.	= \$ 744.00

M. R. Thon

Nov 14-18	20 hrs.
Nov 20-25	16 hrs.
Nov 27-28	14 hrs.

6 CONCLUSIONS

There is a reasonable possibility that the Gibraltar East ore systems extend as far as drill hole 86-57, but, unless the massive ore has a much higher grade than presently indicated, it is unlikely that mineable reserves occur within the drilled area. Further drilling must be done along the strike of the Gibraltar East ore between the pit and the 1986 drilling grid.

Submitted by: G. D. Bysouth
G. D. Bysouth
Senior Geologist

7 BIBLIOGRAPHY

1. Bysouth, G. D., Diamond Drill Report on the Grey Group, November, 1983.
2. Drummond, A. D., et al, The Interrelationship of Regional Metamorphism, Hydrothermal Alteration, and Mineralization at Gibraltar Mines., C.I.M. Bull, Vol. 66, No. 730, pp. 48-55.
3. Schaumberger, M. R., Diamond Drill Report on the Grey Group, June, 1983.
4. Sutherland Brown, A., B.C. Department of Mines and Petroleum Resources, G.E.M., 1973, pp. 299-318.
5. Thon, M. R., Diamond Drill Report on the Grey Group, December, 1986.

APPENDIX I. Statement of Qualifications

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

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

Garry D. Bysouth

Garry D. Bysouth

I, Madeline R. Thon, 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 Geological Science in 1978.
3. From 1978 to the present I have been engaged in mining and exploration geology in British Columbia.
4. I personally logged some of the core and assessed the results of this drill program.

Madeline R. Thon

Madeline R. Thon

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
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

Note: 1 foot = 0.305 m; 1 inch = 2.54 cm

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-53
SHEET No. 1 of 9

LOCATION <u>NW of GIBF</u>	SEARCHED _____	LATITUDE <u>~ 53, 40 N</u>	CORE SIZE <u>NQ Wireline</u>	LOGGED BY <u>MRT/lan</u>
DATE COLLECTED <u>17 Sep - 86</u>	LENGTH <u>508'</u>	DEPARTURE <u>~ 42, 635 E</u>	SCALE OF LOG <u>1" = 10'</u>	DATE <u>14-18 Nov - 86</u>
DATE COMPLETED <u>18 Sep - 86</u>	DIP <u>-90</u>	ELEVATION <u>3130'</u>	REMARKS _____	

ROCK TYPES & ALTERATION	GRAPHIC LOG	FRACTURE ANGLE TO CORE AXIS	ESTIMATED % PYRITE	BOTTOM DEPTHS		ESTIMATED CORE RECOVERY %	R O D	ASSAY RESULTS					
				LEACH CAP	LIM. ZONE			Sample Number	% Cu	% Mo	Estimated Grade		
<u>Cased to 20'</u>													
Mine Phase QD? - Variable amounts of micritic hbl xls, subhedral to euhedral - (Some hbl's are totally altered to chl)	80° mod to sh.	70° 70° 70°	5 1 4	Qtz-cl - (wv) - (lim)	0%	20 22 28	20 20 30	96238	.01	.001	0%		
- 30-40% qtz - some sp's (anhedral to euhedral)	80° v.wk	70° 70°	1/8 1	Qtz qtz-cl - aw-ep	0%	38	30	96239	.01	.001	0%		
	80° wk to mod	70° 70°	1/16 1/20	qtz-ep agg. lim.	0%	48	40	96240	.01	.001	0%		
	ND	70° 70°	1/20 1/20 x 5 1/20 x 3	qtz. MnO ₂ ph. carb qtz-carb x 5 ph. carb x 3	0%	58	50	96241	.01	.001	0%		

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-53
SHEET No. 2 of 9

ROCK TYPES & ALTERATION		L to Core Foliation Foliation Alteration Feet SILSISVA	V. in L to Core Alt.	Width of V. in	Mineralisation	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
								LEACH CAP	LIM. ZONE	SUPERGENE			Sample Number	% Cu	% Mo	Estimated Grade
65-115° -Panner gn -chalc. & red matrs.	80° U. WK	70	130	1/2	carb	0	.01%			92%	73%	96242	<.01	<.001	.02	
			165	1/2 x 2	pts. carb x 2	10										
- sans strong fo mod - a few narrow OK Alt zones up ep stringers - 30-35% gtz.	80 WK	80	130	1/2	pts. chl. av. carb. shear.	10	.06%			105%	90%	96243	<.01	<.001	.0%	
			130	1/2	carb. hem.	20										
	80 WK	80	130	1/2	pts. chl. carb. py	30	.02%			109%	77%	96244	<.01	<.001	.02%	
			130	1/2	pts. chl. carb. py	40										
	80° WK	100	130	1/2	pts. chl. carb. py	50	.0%			102%	91%	96245	.01	<.001	.0%	
			130	1/2	pts. chl. carb. py	60										
115-119 CH1 - sans top top - gtz carb > shear.	70° 80° WK Mod	120	130	1/2	pts. chl. carb. py	70	.04%	hem. sta. surrounding carb. hem. fractures.		106%	72%	96246	.01	.001	.0%	
			130	1/2	pts. chl. carb. py	80										
	70° 80° WK Mod	120	130	1/2	pts. chl. carb. py	90	.04%			95%	65%	96247	<.01	<.001	.04%	
			130	1/2	pts. chl. carb. py	100										

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-53
SHEET No. 3 of 9

ROCK TYPES & ALTERATION		L to Core Fallite	GRAPHIC LOG		Value L to Core Axis	Width of Vail	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			
			Fallite Alteration	Footage Size/Level						LEACH CAP	LIM. ZONE			SUPERGENE	Footage Diameter	Sample Number	% Cu
119-159 Saus alt'd QDw/ wk to str. saus alt' 30-40% gtz; chloritized mafics	80° Wk	130	80 x 3	1/20 x 3	gtz-chl-py x 3	0			.03%	128	99%	80%	96248	.01	<.001	.0%	
			70	1/20	gtz-chl-py	10											
			50	1/20	gtz-chl-carb	20											
			40	1/20	gtz-chl-carb	30											
			30	1/20	gtz-chl-carb	40											
			20	1/20	gtz-chl-carb	50											
			10	1/20	gtz-chl-carb	60											
			0	1/20	gtz-chl-carb	70											
			130	1/18	gtz-chl-ep-carb-py	80											
			140	1/16	chl-gtz-carb	90											
80° Wk to Mod	140	140	1/18	gtz-chl-carb-ep-Lpy>>	0			.03%	138	91%	85%	96249	.01	<.001	.06%		
		125	1/10	gtz-chl-carb	10												
		110	1/10	gtz-chl-carb	20												
		95	1/10	gtz-chl-carb	30												
		80	1/10	gtz-chl-carb	40												
		65	1/10	gtz-chl-carb-Lpy>	50												
		50	1/10	gtz-chl-carb-Lpy>	60												
		35	1/12	gtz-carb Vn-Lpy>>	70												
		20	1/12	gtz-carb Vn-Lpy>>	80												
		5	1/12	gtz Vn-chl-carb-ep	90												
80° Wk Mod	150	150	1/10	gtz-chl-carb-Lpy>>	0			.03%	198	99%	91%	96250	.01	<.001	.02%		
		70	1/16	gtz-chl	10												
		50	1/16	gtz-chl	20												
		30	1/16	gtz-chl	30												
		10	1/16	gtz-chl	40												
		0	1/16	gtz-chl	50												
		150	1/20	gtz-chl-carb-Lpy>	60												
		130	1/20	gtz-ep	70												
		110	1/20	gtz-ep	80												
		90	1/20	gtz-ep	90												
80° Wk -Mod	160	160	1/25	gtz-chl	0			.01%	158	105%	91%	96276	.01	.001	.01%		
		125	1/16	gtz-chl	10												
		110	1/16	gtz-chl	20												
		95	1/16	gtz-chl	30												
		80	1/16	gtz-chl	40												
		65	1/16	gtz-chl	50												
		50	1/16	gtz-chl	60												
		35	1/16	gtz-chl	70												
		20	1/16	gtz-chl	80												
		5	1/16	gtz-chl	90												
157-170 DK Alt' - No Saus Zone - Ep Vns	vd	160	160	1/20 x 2	gtz-chl-carb x 2	0			.03%	168	104%	85%	96277	<.01	<.001	.01%	
			125	1/16	gtz-chl	10											
			110	1/16	gtz-chl	20											
			95	1/16	gtz-chl	30											
			80	1/16	gtz-chl	40											
			65	1/16	gtz-chl	50											
			50	1/16	gtz-chl	60											
			35	1/16	gtz-chl	70											
			20	1/16	gtz-chl	80											
			5	1/16	gtz-chl	90											
170-194 Amixture of - Saus Alt'd QD - Alt. slightly sheared QD.	90° Mod	170	170	1/20 x 3	gtz-ep-chl-Lpy>	0			.2%	178	98%	92%	96278	<.01	<.001	.01%	
			145	1/20 x 3	gtz-ep-chl-Lpy>	10											
			130	1/20 x 3	gtz-ep-chl-Lpy>	20											
			115	1/20 x 3	gtz-ep-chl-Lpy>	30											
			100	1/20 x 3	gtz-ep-chl-Lpy>	40											
			85	1/20 x 3	gtz-ep-chl-Lpy>	50											
			70	1/20 x 3	gtz-ep-chl-Lpy>	60											
			55	1/20 x 3	gtz-ep-chl-Lpy>	70											
			40	1/20 x 3	gtz-ep-chl-Lpy>	80											
			25	1/20 x 3	gtz-ep-chl-Lpy>	90											

Chloritic frag. (oval ~ 2*1/2")

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-53
SHEET No. 4 of 9

ROCK TYPES & ALTERATION		L to Core Fallities	GRAPHIC LOG		Vains L to Core Alt	Width of Vain	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
			Fallities Alteration	Postage						Size	LEACH CAP	LIM. ZONE			SUPERGENE	Sample Number	% Cu	% Mo
184-195 Qtz - cl. - some Show.	80° Mod to wk.	190	90x5	1/10x5	gtz. chl. ep. - carb. py x5	0	1%	188	102%	88%	96279	.02	.002	.01%				
			60	2 1/2"	gtz. chl. ep. py	10									20	30	40	50
195-198 DK Alt w/ pied. in vns	90° wK to Str.	200	70x10	1/4x10	gtz. chl. carb. py x10	10	4%	199	101%	96%	96280	<.01	<.001	.01%				
			70x2	1/4x2	gtz. chl. carb. py x2	20									30	40	50	60
Mainly Saus. Alt QD. (~30% gtz) - a few narrow zones of DK Alt as above.	90° Mod to wk.	210	70x5	1/20x5	gtz. chl. carb. - sm. py x5	0	3%	208	100%	93%	96281	.01	<.001	.01%				
			70x2	1/8	gtz. chl. ep.	10									20	30	40	50
	90° Mod to Str.	220	80x3	1/20x3	gtz. chl. - (ep) - Llim	0	1%	218	105%	91%	96282	.01	<.001	.01%				
			70x2	1/16x2	gtz. chl. - sm. py x3	10									20	30	40	50
224-235 DK. Alt w/ ep. vns. grads into gtz. sm. chl	70- 80° wK to str.	230	80x3	1/4x3	gtz. chl. - py x3	0	1%	228	91%	91%	96283	.01	<.001	.01%				
			70	1/8	gtz. chl. - ep. - py	10									20	30	40	50
235-240 Saus. QD. w/ remnant hbl.	70- 80° wK to str.	240	80x3	1/2x3	gtz. chl. - sm. py x3	0	.06%	238	100%	88%	96284	.44	<.001	.20%				
			70x2	1/2x2	gtz. ep. - chl. x2	10									20	30	40	50

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GIBRALTAR MINES LTD.

HOLE No. 86-53
SHEET No. 5 of 9

ROCK TYPES & ALTERATION		L to Core Fallline	GRAPHIC LOG		Value L to Core Alt	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			
			Foliation Alteration	Fooling						Strike/Slice	LEACH CAP			LIM. ZONE	SUPERGENE	REMARKS	Feolings Block
240-252 V.W.K. Saus Alt still w/ hbl, sl. chlorite		30° W.K.			80	1/4	gtz-ep-ldh	0%			248	92%	91%	96286	.01	<.001	0%
252-266 F.g. sauc/hbl into DK Alt		70° W.K.			80	2	gtz-chl-py x 2 gtz-ep-pied. carb-hem	.02%			258	96%	81%	96286	.01	<.001	0%
256-274 Str. Saus Alt w/only minor remnant hbl- mostly altered to chl.		70° W.K.			50 115 x 3 30 x 2	1/4 1/20 x 3 1/20 x 2	gtz-ep-pied. gtz-chl-carb gtz-chl-carb x 3 gtz-chl-carb x 2 chl-carb-hem	0%			268	97%	89%	96287	.01	<.001	0%
274-284 gtz-chl-sur-carb Shear Zone - minor crenulations		80° Str.			70 80°	1 10'	gtz-ep-pied. py-ep	.02%			278	86%	47%	96288	.01	<.001	.01%
284-288 Saus Alt'd AD-chloritized mafics		80° Str.			80	2	py-ep	.04			288	81%	48%	96289	.01	.001	.03%
288-302 Highly altered Zone. Mark segregation of ep + pied. - scattered sp		W.K.			50 160 300	1/8 1/2 1/8 1/2	gtz-ep-ldh gtz-ep-pied-ldh carb-hem gtz-carb gtz-carb-chl	.04			298	95%	76%	96290	<.01	<.001	0%

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GIBRALTAR MINES LTD.

HOLE No. 86-53
SHEET No. 6 of 9

ROCK TYPES & ALTERATION		L to Core Foliation	GRAPHIC LOG		Vains L to Core All	Width of Vain	Mineralisation	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Footlogs Diag.	Estimated Core Recovery %	R O D	ASSAY RESULTS			
			Foliation Alteration	Footlogs Strike/Slice						LEACH CAP	LIM. ZONE	SUPERGENE				Sample Number	% Cu	% Mo	Estimated Grade
302-335 Saus. Alt w AD - only v. minor remnant hbl. - mostly altered to chl.	80° Mod	310	95° x 2	1/2 x 2	gtz. ep. chl x 2	0		.01%			308	104%	96%	96291	.01	<.001		%	
			145°	1/4	gtz. ep. chl. py	10	20												30
- few narrow OK Alt to gtz. AL Shm 2ms	80° Mod to Str	320	145°	1/2 x 2	carb. hem.	0		0%			318	102%	100%	96292	.01	.001		0%	
			160°	1/2 x 2	gtz. chl. carb. hem.	10	20												30
	80° Mod to Str	330	180°	1/2 x 2	gtz. chl. carb. ep. py	0		.02%			328	98%	71%	96293	.01	<.001		.01%	
			80°	1/2 x 2	gtz. chl. carb. hem.	10	20												30
335-345' Saus Alt w AD - more abundant remnant hbl.	80° WK to ND.	340	145°	1/2 x 2	gtz. carb. hem.	0		.02%		some fresh biotites noted.	338	103%	100%	96294	<.01	<.001		.01%	
			180°	1/2 x 2	chl. ep. gtz.	10	20												30
345-350 OK Alt of the above rock type - apparently shear zones in places.	80° WK to Mod.	350	130°	1/2 x 2	gtz. carb.	0		.03%			348	101%	99%	96295	<.01	.001		.01%	
			180°	1/2 x 2	gtz. chl. carb. ep.	10	20												30
350-377 Mod. Saus Alt w AD. w/ some zones w/ ep. segregations.	90° WK.	360	130°	1/2 x 2	gtz. chl. carb. ep. py	0		.02%			358	95%	90%	96296	<.01	<.001		.01%	
			145°	1/2 x 2	gtz. chl. carb. hem.	10	20												30

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GIBRALTAR MINES LTD.

HOLE No. 86-53
SHEET No. 8 of 9

ROCK TYPES & ALTERATION		L to Core Feet/ft	GRAPHIC LOG		Width of Vail	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			
			Alteration Feet/ft	Values L to Core Alt					LEACH CAP	LIM. ZONE			SUPERGENE	REMARKS	Feet/ft Blocks	Sample Number
		80° WK	160 195x1 160 160x3 430	6 8x1 1 4x2x3		gtz-ep (scr-ckl) gtz-ep-ckl x/y gtz va. chl-carb gtz-ep x3	0 10 20 30 40 50 60 70 80 90	102%		104%	93%	96303	1.01	.001	.01%	
		80° WK	130° 70 440	1/20 1/20		chl-carb gtz-ep	0 10 20 30 40 50 60 70 80 90	0%		102%	100%	96304	1.01	.001	0%	
		80° WK to Med.	165° 70° 160° 145 145 160 145 450	1/20 1/8 1/16 No 1/10 1/2 1/2		gtz-ep-ckl + anal. w/ no gtz-ckl-carb-py gtz-ep-ckl-carb-ep gtz-ckl-carb-hem-ep gtz-ep carb gtz-ckl-ep-carb	0 10 20 30 40 50 60 70 80 90	.06%		100%	98%	96305	.01	.001	.02%	
		80° WK to ND	145 165° 160x2 130x2 130 460	1/20 1/8 1/20x2 1/10 + 1/20 1/4		gtz-ckl-py gtz-ckl-carb-ep-hem gtz-ckl-py x2 gtz-carb-ep-py (upst) gtz-ep x2 gtz-ckl-carb x2 gtz-ckl-ep-carb-py	0 10 20 30 40 50 60 70 80 90	.08%		100%	80%	96306	.01	.001	.01%	
		80° WK to NO	110° 85° 135 120° 120° 5 35 470	1/10 1/20 1/4 1/16 1 1/4 11 1/2 1/2		gtz-ckl-py-carb-hem gtz-ckl-ep x2 gtz-carb-hem gtz-carb-ckl gtz-ckl-carb-hem-py carb-hem carb-ckl-hem	0 10 20 30 40 50 60 70 80 90	.08%	Hem. staining	84%	56%	96307	.01	.001	0%	
		80° WK to ND	15° 160 15x2 120x90 480	1/20 2 1/2 1 1/2 1/20		gtz-ep-ckl-py gg + rubble-carb gtz-ckl-ep-carb-py x2 gtz-ckl-ep-py x2 gtz-ckl-carb-ep-py x2	0 10 20 30 40 50 60 70 80 90	.10%		93%	90%	96308	.01	.001	0%	

463-473
Mainly DK Alt w/
w/ seg. chl-ep

- few grains of wt
473-508
Some Alt d AD
w/ chloritized
mafic
~ 35% gtz

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GIBRALTAR MINES LTD.

HOLE No. 86-54
SHEET No. 1 of 8

LOCATION NW of 61BE BEARING _____ LATITUDE N 53 10 N CORE SIZE NQWiring LOGGED BY M.R. Then
DATE COLLECTED 19-Sep-86 LENGTH 503' DEPARTURE N 43 60 E SCALE OF LOG 1"=10' DATE 20-25 Nov-86
DATE COMPLETED 20-Sep-86 DIP -90° ELEVATION N 3270' REMARKS _____

ROCK TYPES & ALTERATION			GRAPHIC LOG	Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS				
									LEACH CAP	LIM. ZONE	SUPERGENE			Sample Number	%	%	Estimated Grade	
						Cu	Mo											
		<u>Cased to 50'</u>																
		<u>Mine Phase 9D</u> <u>50-82'</u> <u>Sand fill'd 9D, chlorite</u> <u>matrics, 30-25% gtz</u>		<u>80°</u>	<u>1/20 x 15</u> <u>1/20</u>	<u>1/16 x 15</u> <u>1/20</u>	<u>lim x 15</u> <u>gtz chl. py. ep. lim. hem?</u>	<u>0.03%</u>		<u>71'</u>		<u>67%</u>	<u>26%</u>	<u>96312</u>	<u>.02</u>	<u><.002</u>		<u>.03%</u>
			<u>60°</u>	<u>1/45°</u> <u>1/30 x 2</u>	<u>1/2</u> <u>1/16 x 2</u>	<u>1/16 x 15</u> <u>lim x 2</u> <u>gtz chl. Vh - lim.</u>					<u>58</u>		<u>60</u>					
			<u>90°</u>	<u>1/30 x 3</u> <u>1/30°</u> <u>1/60°</u> <u>1/30°</u>	<u>1/8</u> <u>1/8</u> <u>1</u>	<u>lim x 3</u> <u>gtz. chl. lim. app?</u> <u>gtz. chl. ser. py</u>	<u>0.03%</u>				<u>68</u>	<u>93%</u>	<u>40%</u>	<u>96313</u>	<u>.02</u>	<u><.002</u>		<u>.01%</u>
			<u>70°</u>	<u>1/30 x 2</u> <u>1/45°</u> <u>1/70 (50°)</u>	<u>1/2</u> <u>1/2</u> <u>8" x 2"</u>	<u>lim x 2</u> <u>gtz. ep. chl. ser.</u> <u>gtz. ser. chl. ep. (py) = 2</u>	<u>0.03%</u>				<u>75</u>	<u>93%</u>	<u>77%</u>	<u>96314</u>	<u>.02</u>	<u>.002</u>		<u>.05%</u>
			<u>80°</u>	<u>1/50</u>	<u>1</u>	<u>gtz. Vh. lim. (ep?)</u>					<u>80</u>	<u>100%</u>	<u>80</u>					
		<u>82-85.5'</u> <u>gtz. Ser Shear</u> <u>96.5-96.5 - Sand fill'd</u> <u>96.5-93'</u> <u>Ser. Ser. Ser.</u>	<u>70°</u> <u>70°</u> <u>50°</u> <u>70°</u>	<u>1/20</u> <u>1/20</u> <u>1/20</u> <u>1/20</u>	<u>1/20</u> <u>1/20</u> <u>1/20</u> <u>1/20</u>	<u>gtz. chl. py</u> <u>gtz. ser. chl. (orb) py. ep.</u> <u>Shear Zone</u> <u>" "</u> <u>gtz. ser. (chl) py (py) (ep)</u> <u>Shear Zone</u>	<u>2%</u>				<u>85</u>	<u>31%</u>	<u>96315</u>	<u>.45</u>	<u>.002</u>		<u>.12%</u>	
			<u>90°</u>	<u>1/70</u>	<u>1/20</u>						<u>90</u>	<u>55%</u>	<u>90</u>					

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GIBRALTAR MINES LTD.

HOLE No. 86-54
SHEET No. 2 of 8

ROCK TYPES & ALTERATION		GRAPHIC LOG L to Core Foliation Alteration Footings Structure	Vains L to Core Ash	Width of Vain	Mineralisation	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Footage Block.	Estimated Core Recovery %	R O D	ASSAY RESULTS								
								LEACH CAP	LIM. ZONE	SILPERGENE				Sample Number	% Cu	% Mo	Estimated Grade					
73-107 Intermixed - Saus AH & AD of Dr. ser - LKH / Shm / DK. AH ²⁰	70°	100	70°	3'	qtz. ser - LKH / Shear - py - cp - lll	0	27%				93	35%	96316	.23	<.002	.20%						
	80°		80°	1/16	qtz - chl - ser - lim - py - cp	10		20	30	40							50	60	70	80	90	
	St + WK		80°	1/2'	Shear	10		20	30	40							50	60	70	80	90	
90° St to ND.	90°	110	90°	1/20	qtz - chl - py	0	19%				103	74%	100									
	80°		80°	12"	qtz - ser - py - cp Shear.	10		20	30	40							50	60	70	80	90	
	St to ND.		80°	4"	qtz - chl - ser - py - cp Shear	10		20	30	40							50	60	70	80	90	
102 - Saus AH & QD. - qtz - ep Vns w/ dk envelopes - ~35-90% qtz. - Few DK AH ²⁰ zones	80°	120	80°	1/20 x 2	ag. silms qtz - chl - py x 2	0	.06%				109	80%	110	96318	.02	<.002	.09%					
	WK.		80°	1/40 x 2	qtz - chl - ser - ep - py	10		20	30	40								50	60	70	80	90
	WK.		80°	1/40	qtz - chl - py - cp	10		20	30	40								50	60	70	80	90
80° WK + Mid	80°	130	80°	1/20 x 2	qtz - ep chl - 7 envel DK RH	0	.05%				118	98%	120	96319	.01	<.002	.05%					
	80°		80°	1/8	qtz - chl - ep - py	10		20	30	40								50	60	70	80	90
	WK + Mid		80°	1/8 x 2	qtz - chl - ser - py	10		20	30	40								50	60	70	80	90
80° Mid	80°	140	80°	1/40	qtz - chl - carb - py	0	.30%				128	98%	130	96320	.02	<.002	.12%					
	80°		80°	1/20	qtz - chl - carb	10		20	30	40								50	60	70	80	90
	Mid		80°	1/20	qtz - chl - ser - ep	10		20	30	40								50	60	70	80	90
90° 195° 160° 90° 90°	90°	150	90°	1	qtz - chl - ser - ep - ant.	0	.30%				138	94%	140	96321	.11	<.002	.20%					
	195°		90°	1/2	qtz - chl - carb - py	10		20	30	40								50	60	70	80	90
	160°		90°	1	qtz - chl - carb	10		20	30	40								50	60	70	80	90
90° 145°	90°	150	90°	12"	qtz - chl - ser - ep	0	.30%				148	94%	150	96321	.11	<.002	.20%					
	145°		90°	2	qtz - chl - ser - ep	10		20	30	40								50	60	70	80	90
	90°		90°	1	qtz - chl - ser - ep - ant.	10		20	30	40								50	60	70	80	90
90° 145°	90°	150	90°	12"	qtz - chl - ser - ep - ant.	0	.30%				148	94%	150	96321	.11	<.002	.20%					
	145°		90°	1	qtz - chl - ser - ep	10		20	30	40								50	60	70	80	90
	90°		90°	1	qtz - chl - ser - ep - ant.	10		20	30	40								50	60	70	80	90

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GIBRALTAR MINES LTD.

HOLE No. 86-54
SHEET No. 3 of 8

ROCK TYPES & ALTERATION			L to Core Failure	GRAPHIC LOG	Vains L to Core Asth	Width of Vain	Mineralisation	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE	SUPERGENE			Sample Number	% Cu	% Mo	
			80° WK.	110° 160° 20° 15° 20° 15° 160	1/4 4 3/4 2" 1/8 1/16		gtz. chl. carb. lpy gtz. chl. Vn. gtz. ser. chl. py. q. cc gtz. chl. ep. lim gtz. chl. Vn gtz. chl. ser.	0 10 20 30 40 50 60 70 80 90	.15%		158	90%	60%	96322	.18	<.002		.22%
			80° WK	115° 110° 16x2 125x3 145° 140° 170	1/8 h/c 1/8x2 1/16x3 1/16 1/8		gtz. chl. ep. py. lim carb. lim. gtz. ep. chl. x 2 gtz. carb. x 3 gtz. chl. carb gtz. chl. ser. py	0 10 20 30 40 50 60 70 80 90	.04%		168	100%	82%	96323	.01	<.002		.02%
		Few zones w/ no sauc.	80° WK	130° 130x2 120° 150° 115° 120° 180	1/20 1/16 x 2 h/c 1/3 1/20 1/16		gtz. chl. carb gtz. chl. ep. lpy x 2 carb gtz. chl. carb. chl. m. lim carb. q gtz. chl. ser. py	0 10 20 30 40 50 60 70 80 90	.04%		178	100%	80%	96324	.01	<.002		.01%
			80° WK	130x5 80° 75° 10x2 120° 80° 140 190	1/20x5 2" 1/16 h/c x 2 h/c h/c 1/16		gtz. chl. ser. py x 5 gtz. chl. ser. lim gtz. chl. py carb. lim x 2 gtz. chl. carb. lim gtz. chl. ser. py	0 10 20 30 40 50 60 70 80 90	.04%		188	81%	57%	96325	.01	<.002		.01%
			70- 80° WK	150° 145° 150° 160x3 180° 170° 175° 200	1/10 1/4 1/8 1/20 x 3 1/8 1/10 1/20		gtz. chl. ser. lpy gtz. chl. ser. carb. lpy gtz. chl. ser. carb. py gtz. chl. py. lpy x 3 gtz. chl. ep. py gtz. chl. py	0 10 20 30 40 50 60 70 80 90	.09%		198	97%	88%	96376	.03	<.002		.02%
			70- 80 115° 140° 150° 170° 175° 210	1/2 1/16 1/10 1/16 10" 1 1/2 2"			gtz. chl. ser. lpy cp gtz. chl. carb. lim. ser. lpy gtz. chl. carb. lpy gtz. chl. carb. lpy gtz. ser. py. cp gtz. chl. carb gtz. chl. ser. py. cp	0 10 20 30 40 50 60 70 80 90	.15%		208	97%	61%	96377	.04	<.002		.16%

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GIBRALTAR MINES LTD.

HOLE No. 86-54
SHEET No. 9 of 8

ROCK TYPES & ALTERATION			GRAPHIC LOG Alteration Feet Stratigraphic	Yellow to Core Alt.	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
	L to Core Foliation								LEACH CAP	LIM. ZONE	SUPERGENE			Sample Number	% Cu	% Mo	Estimated Grade
			REMARKS			Feet	Blacks										
	70° V. WK.		170° 170° 160x3 150° 160° 170° 220		1/8 1/8 1/10x3 1/16 1/20 3" 1/20	gtz-ssn-chl-ep-py gtz-ssn-py-ep-py gtz-ssn-ep-py gtz-ssn-ep gtz-ssn-ep-py gtz-ssn-ep-py gtz-ssn-ep-py gtz-ssn-ep-py	0 10 20 30 40 50 60 70 80 90	.4%			103%	92%	96378	.05	1.002	.28%	
	30- 70 V. WK.		145° 150° 145° 140° 150° 230		2" 1/20 1/10 8 4.1 1/6	gtz-ssn-chl-ep-py gtz-ssn-ep-py gtz-ssn-ep-py gtz-ssn-ep-py gtz-ssn-ep-py gtz-ssn-ep-py	0 10 20 30 40 50 60 70 80 90	.2%			97%	66%	96379	.04	1.002	.20%	
	~60° WK.		30 110 130 145x4 130° 155° 240		1/20 1/16 1/20 1/20x4 1/8 1/8 1/6	gtz-ssn gtz-ssn carb-hem gtz-ssn-ep-py gtz-ssn-ep-py gtz-ssn-ep-py carb-ep	0 10 20 30 40 50 60 70 80 90	.1%			91%	20%	96380	.02	1.002	.04%	
	60- 70° WK.		145x2 160 150° 165° 180° 160x5 145° 250		1/20x2 1/8 1/6 5° 1/20 1/16x5 1/16	gtz-ssn-ep-py gtz-ssn-ep-py gtz-ssn-ep-py carb gtz-ssn-ep-py gtz-ssn-ep-py gtz-ssn-ep-py	0 10 20 30 40 50 60 70 80 90	.25%			95%	75%	96381	.04	1.002	.02%	
	ND.		130x3 125° 160x2 15° 160x2 175x3 260		1/10x3 1/6 1/20x2 1/6 1/20x2 1/20x3 1/6x2	carb-hem gtz-ssn-ep-py gtz-ssn-ep-py gtz-ssn-ep-py gtz-ssn-ep-py gtz-ssn-ep-py gtz-ssn-ep-py	0 10 20 30 40 50 60 70 80 90	.10%			104%	68%	96382	.02	1.002	.02%	
	80° WK 10 5th.	Few dk. Alt. lines 267-287 gtz-ssn-ep-py	170° 145° 150x2 170° 170x3 270		1/8 1/16 1/20x2 1/8 1/6x3 3"	gtz-ssn-ep-py gtz-ssn-ep-py gtz-ssn-ep-py carb-ep gtz-ssn-ep-py gtz-ssn-ep-py	0 10 20 30 40 50 60 70 80 90	.04%			92%	20%	96383	.02	1.002	.01%	

no sulphides seen.

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GIBRALTAR MINES LTD.

HOLE No. 86-54
SHEET No. 6 of 8

ROCK TYPES & ALTERATION		GRAPHIC LOG	Value of Alteration	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS - FREQUENCY -	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
								LEACH CAP	LIM. ZONE	SUPERGENE			Sample Number	% Cu	% Mo	Estimated Grade
Few zones of DK Alt	70-80° V. WK to HD	340	75	1/2	gts-ser-dk-py-ep	0	.08%			96%	84%	96390	.02	1.002	.03%	
			15x3	1/20 x 3	gts-chl-ser-ep-py x 3	10		20	30							40
345-349 gts-ser shear zone w/ py-ep	50-80° WK to Str.	350	160	3	gts-ep-echl	10	3%			87%	50%	96391	.12	1.002	.20%	
			140	1/8	gts-ser-ep-py	20		30	40							50
349-352 Mod to WK zones Alt'd Q.D. w/ narrow zones of - gts-echl-ser shear - ser. fract. shear zone - DK Alt	50-80° WK to Str.	360	150	1/2	gts-carb-dk-py x 2	0	.30%			100%	93%	96392	.10	1.002	.40%	
			140	1/20	gts-chl-carb	10		20	30							40
70-80° WK to Str.	370	170	1/4	gts-ser-dk-carb-ep-py	0	.40%			102%	86%	96393	.01	1.002	.18%		
		160	1/20	gts-chl-ep-ser-py-ep	10		20	30							40	50
60-70° WK	380	170	1/8 x 2	gts-carb-chl-ep-py x 2	0	.20%			99%	88%	96394	.06	1.002	.25%		
		150	2	gts-chl-carb-ser-py-ep	10		20	30							40	50
70-80° WK to Str.	390	160	1/10	gts-dk-carb-ep-py x 2	0	.40%			88%	72%	96395	.04	1.002	.30%		
		140	1/2	gts-carb-dk-ep-py	10		20	30							40	50

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GIBRALTAR MINES LTD.

HOLE No. 8659
SHEET No. 7 of 8

ROCK TYPES & ALTERATION		GRAPHIC LOG Faults Alteration Footings Size of Vein	Vein to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
								LEACH CAP	LIM. ZONE	SILPERGENE			Sample Number	% Cu	% Mo	Estimated Grade
39L Mainly Saus Alt'd	70-80° St	400 175x2	70-80° 70°	6' 6"	gtz-ser-chl-py-ep Ox (carb-ser-chl)	0 10 20 30 40 50 60 70 80 90	3%			398	75%	96396	.20	<.002	.10% ?	
	ND		70°	100x2	gtz-dk-py-xz	0 10 20 30 40 50 60 70 80 90										
QD w/ narrow gtz- chl-ser shear zones	ND to 70-80° St	410 150x2	70° 70° 75° 70° 70° St	hlc 7/8" 1/2" 1/10 100 2"	gtz-chl-carb gtz-ox-dk-ep-py gtz-ox-carb-ser-ep gtz-ox-chl-ep gtz-ox-chl-ep-py gtz-ox-chl-ep-py	0 10 20 30 40 50 60 70 80 90	5%		408	102%	90%	96397	.11	<.002	.30%	
	70-80° Wk to St		70° 70° 70° 70° 70° St	1/10 14" 2" 2" 1"	gtz-chl-ser-py-ep gtz-chl-ep gtz-ox-carb-ep-py Carb-gtz-chl-Vug gtz-ox-chl-ep gtz-ox-chl-ep-py gtz-ox-chl-ep-py	0 10 20 30 40 50 60 70 80 90										
	70-80° Wk to St	420 125°	70° 70° 70° 70° 70° St	1/10 14" 2" 2" 1"	gtz-chl-ser-py-ep gtz-ox-carb-ep-py Carb-gtz-chl-Vug gtz-ox-chl-ep gtz-ox-chl-ep-py gtz-ox-chl-ep-py	0 10 20 30 40 50 60 70 80 90	50%		418	101%	68%	96398	.35	<.002	.30%	
	75-80° Wk to St		75° 80° 70° 70° 70° St	7" 1 1/2" 1" x 2" 1/20 x 3 1/20 x 3 1	gtz-ser-py-ep gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py	0 10 20 30 40 50 60 70 80 90										
	70-80° Wk to St	430	70° 70° 70° 70° 70° St	1 4" 1/2 1/4 x 2 3/4 2	gtz-ox-chl-ep-py gtz-ox-py-ep gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py	0 10 20 30 40 50 60 70 80 90	.30		428	72%	42%	96399	.08	<.002	.20%	
	70-80° Wk to St		70° 70° 70° 70° 70° St	1 4" 1/2 1/4 x 2 3/4 2	gtz-ox-chl-ep-py gtz-ox-py-ep gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py	0 10 20 30 40 50 60 70 80 90										
	70-80° Wk to St	440	70° 70° 70° 70° 70° St	1 4" 1/2 1/4 x 2 3/4 2	gtz-ox-chl-ep-py gtz-ox-py-ep gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py	0 10 20 30 40 50 60 70 80 90	.20		438	97%	68%	96400	.11	<.002	.10%	
	70-80° Wk to St		70° 70° 70° 70° 70° St	1 4" 1/2 1/4 x 2 3/4 2	gtz-ox-chl-ep-py gtz-ox-py-ep gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py	0 10 20 30 40 50 60 70 80 90										
	70-80° Wk to St	450	70° 70° 70° 70° 70° St	1 4" 1/2 1/4 x 2 3/4 2	gtz-ox-chl-ep-py gtz-ox-py-ep gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py	0 10 20 30 40 50 60 70 80 90	.18%		448	100%	83%	96144	.02	<.002	.13%	
	70-80° Wk to St		70° 70° 70° 70° 70° St	1 4" 1/2 1/4 x 2 3/4 2	gtz-ox-chl-ep-py gtz-ox-py-ep gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py gtz-ox-chl-ep-py	0 10 20 30 40 50 60 70 80 90										

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GIBRALTAR MINES LTD.

HOLE No. 86-59
SHEET No. 8 of 8

ROCK TYPES & ALTERATION	Z to Core Foliation Alteration Footage Strike/Slice	GRAPHIC LOG	Value Z to Core Axis	Width of Vain	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS																																																																															
								LEACH CAP	LIM. ZONE			SUPERGENE	REMARKS	Sample Number	% Cu	% Mo	Estimated Grade																																																																										
70-80° Wk to Str.	460	80 60 60 125 80 70	5 15" 10" 1/2 1/4 1"		gtz-chl-sev-ep-saw-ep gtz-ep-levl-rch gtz-sev-chl-cp-py gtz-chl-sev-ep-ep gtz-chl-sev-ep gtz-ep-sev-py-ep	0 10 20 30 40 50 60 70 80 90	.2%		458	84%	41%	96145	.08	<.002	.30%																																																																												
																70-80° Mod to Str.	470	145 150 160 70 60 80 80	2" 6" 5" 26" hls 2" 6"		gtz-chl-py-ep gtz-sev-chl-cp-py gtz-sev-ep-py-ep (bo?) gtz-qu-ep-cp-py carb. gtz-ep-sev-py-ep agg-carb-rich carb	0 10 20 30 40 50 60 70 80 90	4%	467	91%	27%	96146	.15	<.002	.60%																																																													
																															70-80° Mod to Str.	480	160 x 2 80 x 2 80 60 150 80 80	1"4 x 3" 1/10 x 2 12" 9" 1/2 29 2"		gougy core w/ py-ep gtz-sev-levl-ep-py-ep gtz-ep-sev-ep-py gougy core - rubbly gtz-sev-levl-ep-py-ep gtz-ep-sev-ep-py-ep rubbly agg	0 10 20 30 40 50 60 70 80 90	1%	473	80%	13%	96147	.26	<.002	.50%																																														
																																														70° Mod to Str.	490	70 v 2 145 70 80 70 70	1/4 x 3" 1 2" 3 1/2 2"		gtz-ep-sev-py-cpx gtz-carb-ep-ep gtz-ep-sev-ep-py gtz-ep-sev-ep-py gtz-ep-sev-ep-py	0 10 20 30 40 50 60 70 80 90	4%	489	94%	52%	96148	.04	<.002	.30%																															
																																																													70° Wk to Str.	500	145 170 x 5 70 155 70 70 x 2	1/8 1/4 x 5 1/16 1/8 7 2" x 2		gtz-ep-sev-ep-py gtz-ep-sev-ep-py gtz-ep-sev-ep-py gtz-carb gtz-ep-sev-ep-py gtz-ep-sev-ep-py gougy rubbly core	0 10 20 30 40 50 60 70 80 90	.2%	498	90%	23%	96149	.08	<.002	.30%																
																																																																												E.O.H @ 503°	503	140 x 1 25 x 3	1/2 x 4 1/2 x 3		carb x 4 carb x 3	0 10 20 30 40 50 60 70 80 90	36%	503	36%	503					

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GIBRALTAR MINES LTD.

HOLE No. 86-55
SHEET No. 1 of 9

LOCATION <u>N.W. of Gib-East</u>	BEARINGS <u>-</u>	LATITUDE <u>~ 53900 N</u>	CORE SIZE <u>N.C. Wireline</u>	LOGGED BY <u>MRT</u>
DATE COLLARED <u>20-Sep-86</u>	LENGTH <u>500'</u>	DEPARTURE <u>~ 49,100 E</u>	SCALE OF LOG <u>1"=10'</u>	DATE <u>27-28 Nov-86</u>
DATE COMPLETED <u>21-Sep-86</u>	DIP <u>-90</u>	ELEVATION <u>~ 3262'</u>	REMARKS _____	

ROCK TYPES & ALTERATION	L to Core Foliation Alteration	GRAPHIC LOG Feet Size	Y to Core L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Feet Blocks	Estimated Core Recovery %	R O D	ASSAY RESULTS						
								LEACH CAP	LIM. ZONE				Sample Number	% Cu	% Mo	Estimated Grade			
		22																	
Mine Phase QD (124) Mainly a saus(mod) QD. w/narrow zones of DK Alt - ~30% gtz finer grained than normal	80° Mod to Str.	125 x 2 15 x 2 90 65 x 2 145 x 2 70 x 2	1/2 x 2 1/20 x 2 1/10 x 2 1/10 x 2 1/2 x 2	1/2 x 2 5" 1/2 x 2 1/2 x 2	MnOz x 2 gtz-chl-saus x 2 DK Alt Zone w/epths - lpy gtz-chl-ser-lim-st x 2 - lim. lim x 2 (lim-st) lim-ser-carb x 2		.07%	Weak lim zone to 28' lim below this is only on a few fractures	28	93%	65%	96501	.02	.001		.01%			
	80° Mod to Str.	145° 115° 145° 160° 170°	1/2 x 1/2 Encl 1/8 1/10 1/2 1/2	1/2 x 1/2 Encl 1/8 1/10 1/2 1/2	gtz-chl-ep + no saus Encl. gtz-chl-carb gtz-chl-carb gtz-ep VN + 1/2 No Saus Encl. MnOz gtz-chl-lim		.01%	gtz-saus id plag frag.	38	100%	98%	96502	.01	.001		.01%			
	80° Mod	155° 130° 115° 125° 160° 130 x 3 145°	1/8 1/2 1/2 1/8 1/20 1/20 7"	1/8 1/2 1/2 1/8 1/20 1/20 7"	gtz-chl-ser-ep carb gtz-ep <chl-py> carb-ep-lim gtz-ep-chl gtz-ep x 3 w large encl. gtz-chl-ser-shrt sp-py-lim		.08%		48	100%	88%	96503	.01	.001		.01%			
	75° Mod to Str.	150° 125° 150° 145° 130°	1/8 1/2 1/8 1 1/2	1/8 1/2 1/8 1 1/2	MnOz carb gtz-dl-carb gtz-chl-ep-py-lim lim gtz-dl-saus		.04%		58	100%	90%	96504	.01	.001		.01%			

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GIBRALTAR MINES LTD.

HOLE No. 8655
SHEET No. 2 of 9

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG Alteration Feetage Structure	Yield L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Feetage Discont.	Estimate Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE				Sample Number	% Cu	% Mo	Estimated Grade
60-65° wk. Saus. Alt. fine gr., well foliated - approaches a shear sharp contact (80°) a highly siliceous Leucocratic Phase 64 > 180	80° Str 60° wk	15 + 30° 70 x 9	h/x 2 h/x 4	MnO ₂ x 2 lim x 4	1 1	g tr-ep strong lim gtr. vugs - chl - lim - MnO ₂	0	0%			68	100%	73%	96505	.01	.001	%	
							10											
-Possibly an altered Gran. Min Phase?? - a finer grained section @ the contact	70° wk	15 30 x 5	h/x h/x 5	lim. MnO ₂ lim. MnO ₂ x 5	1 1	g tr-ep strong lim gtr. vugs - chl - lim - MnO ₂	0	0%		78	91%	53%	96506	.02	.001	0%		
							10											
	60- 70° wk	80° 15°	2 1/20	gtr. chl. ep. py - (lim) gtr. ep	1 1	gtr. vugs. str. lim. stain lim	0	0%		88	92%	76%	96507	.01	.001	%		
							10											
	60° wk	90° 110° 150°	1/10 1/20 1/20	gtr. - (ep. chl) - lim gtr. ep - (chl) gtr. ep	1 1 1	gtr. vugs. str. lim. stain lim	0	0%		98	91%	80%	96508	.01	.003	%		
							10											
	70 u. wk	100° 175° 80° 120° 30 x 2	h/x h/x 1 1 1	lim gtr. ep gtr. chl. lim - MnO ₂	1 1 1	gtr. vugs. str. lim. stain lim	0	0%		108	103%	83%	96509	.01	.001	%		
							10											
	60- 80° wk + Med	180° x 2 85° 150° x 2 30 x 2	1/10 x 2 1 1/2 x 2	gtr. chl. ep. py x 2 gtr. chl. ep. py gtr. ep	1 1 1	gtr. vugs. str. lim. stain lim	0	0%		118	96%	83%	96510	.01	.001	%		
							10											

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GIBRALTAR MINES LTD.

HOLE No. 86-55

SHEET No. 3 of 9

ROCK TYPES & ALTERATION		L to Core Feathering	GRAPHIC LOG		Vains L to Core Ash	Width of Vain	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
			Alteration Footings	SHALEY						LEACH CAP	LIM. ZONE	SUPERGENE			Footings Blocks	Sample Number	% Cu	% Mo
		60° 70° wk to Med	130	70 145° 5° 60°	1/16 1/2 1/20 1/16		gtz-ep gtz-plag-chl-lim stain gtz-ep-chl-lim gtz-ep-fer-hematite cong	0 10 20 30 40 50 60 70 80 90	.02%		128	100%	98%	96511	<.01	<.001		0%
		70- 80° wk	140	65° 50° 70°	1/4 1/20		gtz-ep gtz-chl vug-st-lim	0 10 20 30 40 50 60 70 80 90	0%	Some biotite seen	138	100%	92%	96512	.02	<.001		0%
	Mafics more abundant	70° wk	150	70°	1/2		gtz-ep-chl Lpy in mafic xls Some mag present	0 10 20 30 40 50 60 70 80 90	.05%		148	100%	90%	96513	2.01	<.001		0%
	Almost no chl.	60° wk	160	145° 160°	1/12 1/8		gtz-ep ag-lim gtz-ep. gtz-chl-ep-lim gtz-ep	0 10 20 30 40 50 60 70 80 90	.0%		158	95%	70%	96514	.01	.001		0%
	Large, rather fresh looking mafics - black in places	60° wk	170	160° 130° 130°	1/2 1/4 1/6		gtz-ep-lim some «py» w/ mafics lim gtz-ep «lim»	0 10 20 30 40 50 60 70 80 90	.01%	Driller's note: v. hard rock 168-328 (SHA)	168	100%	96%	96515	<.01	.001		0%
	Fairly sharp contact @ 60°	60° wk	180	80° 110° 60°	1/4 1/4 1/20 x 2		lim gtz-ep «py» gtz-ep - ep segregation	0 10 20 30 40 50 60 70 80 90	.02%	large frag. (~2" diam) of chl-ep-gtz material	178	102%	75%	96516	<.01	<.001		0%

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GIBRALTAR MINES LTD.

HOLE No. 86-55
SHEET No. 4 of 9

ROCK TYPES & ALTERATION	GRAPHIC LOG	Yield % to Core Alt	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			
							LEACH CAP	LIM. ZONE			Supergene	REMARKS	Feet Block	Sample Number
180-200 A siliceous Saus Alt W QD; f. to med. gr, subhedral to anhedral xls. -35-40% gtz	70° WK	145+30 50° 30° 138° 50° 190	1/16 x 2 1/8 1/8 8" 1/20	gtz-ep x 2 Leucocratic Vn-Qtz-ank fsp " " gtz chl Vn Leucoc. Phase gtz-chl	0 10 20 30 40 50 60 70 80 90	0%		100%	92%	96517	<.01	<.001	0%	
fairly sharp 60° contact	95 80 WK	130° 50° 130° 130° 200	1/16 1/16 1/20 1/20 1/20	gtz-chl-carb-lim epyz w/mafics gtz-chl-ep gtz-ep w/ 1/4" no 2200 con. lim x 4 gtz-ep	0 10 20 30 40 50 60 70 80 90	.03%		100%	80%	96518	.01	<.001	0%	
200-214 Leucocratic Phase as above	50 WK	145 x 2 60° 5° 145 x 2 210	1/16 x 2 1 1/2 1/20 1/20	Leucoc-lim x 2 Leucoc Vn-Qtz-ank-fsp-py carb gtz-carb lim	0 10 20 30 40 50 60 70 80 90	.03%	(hem st.)	90%	60%	96519	.01	<.001	0%	
214-218 Str Saus Alt W QD - w zones of lim. as above + of segmp. ep	60- 30° WK ++ ND	125° 15 x 3 110 x 2 220	1/2 1/8 x 3 1/8 x 2 1/20 x 5	gtz-chl-ep-py gtz-chl-py-LED gtz-ep x 2 gtz-carb-ep-py x 2 gtz-ep	0 10 20 30 40 50 60 70 80 90	10%		96%	84%	96520	<.01	.001	0%	
218-257 Mainly a v. WK Saus Alt W w/ep Segreg. but also zones of -Leucoc. Phase - v. med. gtz-chl-sev show - v. med. chertitic zone	45° WK 70 St	130 x 2 70° 145 145 230	1/16 x 2 1/2 7" 12" 5 1/2 x 1/2	gtz-ep-ep-py x 2 Chl-gtz-sev-py Chl-gtz-sev-ep-py Even Shar Zone-gtz-chl-sev-ep-py Leuc. Ph. -ep-epyz gtz-chl-py x 2	0 10 20 30 40 50 60 70 80 90	30%		97%	75%	96521	.09	<.001	0%	
W Lgtz-fsp-ep-mag - Str Saus Alt W zones.	45° WK St.	145 x 2 180 x 2 80 145 145 x 2 240	1/20 x 2 1/8 x 2 1/4 20" 1/16 x 2 1/4"	gtz-chl-ep-py x 2 gtz-carb-chl-py x 2 gtz-ep-chl. Leucoc. Ph. f. - ch. ep + No Saus env. vel. - v. med. zone w/ chl-gtz- fsp-ep-mag <py-ep>	0 10 20 30 40 50 60 70 80 90	30%		100%	92%	96522	.03	<.001	.03%	

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GIBRALTAR MINES LTD.

HOLE No. 86-55
SHEET No. 5 of 9

ROCK TYPES & ALTERATION	L to Core Foliation Alteration Footage Structure	Yield L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Footage Block	Estimated Core Recovery %	R O D	ASSAY RESULTS			
							LEACH CAP	LIM. ZONE	SUPERGENE				Sample Number	% Cu	% Mo	
ser. rept	60° str to top	1/10 1/20 1/25° 1/20 1/15° 1/15° 1/16° 1/20	1/10 1/20 1/10 1/18 1/16 1/2	gtz-ep-cdd gtz-ep-carb-py gtz-chl-ser-py gtz-ep gtz-dl-ep gtz-ep gtz-ch-ep	0 10 20 30 40 50 60 70 80 90	.04%			248	98%	93%	96523	.01	<.001		0%
57-262 qlz. chl. ser. carb. shear	ND to 80° str.	30x3 30x3 1/20	1/20x3 1/20x3 1/2	gtz-chl-ser-ep x3 gtz-ep x3 gtz-fsp	0 10 20 30 40 50 60 70 80 90	.06%		258	55%	77%	96524	.01	2.002		0%	
																260
262-265 qlz-ser-cdd Shear 265-282 Mainly a. no sauss alt'd qd w/ser. ep & v. l. thle chl. v. siliceous	ND str to ND	80° 150° 160° 180° 80°	3' 1/2 1/4 1/20 2	gtz-ser-cdd-ep-py-ep gtz-carb-ep gtz-ep gtz-chl-ep gtz-ep-chl	0 10 20 30 40 50 60 70 80 90	.10%		268	100%	70%	96525	.06	.002		.12%	
																270
- few zones of: - mod sauss alt'd qd w/ 4-5% gtz - gtz. an. ch. phan zones.	ND to 80° str	1/20 x2 1/20 1/20	1/10 x2 1/16 1/11	gtz-an-chl-ep-py gtz-chl-ep-py-xz gtz-an-chl-ep-py-ep gtz-an-cdd-ep-py-qlz gtz-ser-py-ep Shear gtz-an-chl-ep-7	0 10 20 30 40 50 60 70 80 90	.15%		278	100%	74%	96526	.24	2.002		.30%	
																280
282-399 Granite Mtn Phase. - 15% gtz - few rpa fics - weakly sauss'd fsp	ND	1/20 x 5' 30 30	1/20 x 2 1 1/16	gg-rubble gtz-ep-chl gtz-ep	0 10 20 30 40 50 60 70 80 90	.10%		288	103%	85%	96527	.10	2.001		.10%	
																290
- coarse grained - seriate textured in places.	ND	30 50x3 80x4	2 1/20 x 1/2 1/20 x 4	gg-rubble gtz-ep(chl) r gtz-dl-ep-py x4	0 10 20 30 40 50 60 70 80 90	.02%		298	100%	80%	96528	.01	<.002		0%	
																300

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-55
SHEET No. 6 of 9

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Veins L to Core Alt	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE			Supergene	REMARKS	Feetage Discr.	Sample Number
			ND	310	30 50 80 80x3	1/100 1/20 x3	ser. gg. h/c gtz-ckl-py gtz-ep x3	0 10 20 30 40 50 60 70 80 90	.01%		97%	58%	96529	.01	1.002	.0%	
			ND	320	80x2 80 80x3 70 1/2 1/2 1/2	1/20 x2 2 1/16 x3 1/2 1/8 1/2	gtz-ckl-py x2 gtz-ep x47 gtz-ckl-py x3 gtz-di. ser. py-ep Shear gtz-ckl-ep py gtz-di-ep py	0 10 20 30 40 50 60 70 80 90	.10%		94%	78%	96530	.05	.002	.10%	
			ND	330	80 150 70 90	1/16 1/16 1/2 1/20	gtz-ep carb. gg. gtz-ep gtz-ep	0 10 20 30 40 50 60 70 80 90	.01%		100%	90%	96531	1.01	1.002	.0%	
			ND	340	80 70 130 15x5 80 55	1/2 1/20 1/2 1/20 1/20 1/4	gtz-ckl-ep gtz-ckl-py gtz-ep x3 gtz-ckl-ep py gtz-ckl-ep py gtz-ckl-ep py gtz-ep ser.	0 10 20 30 40 50 60 70 80 90	.05%		98%	90%	96532	.01	1.002	.02%	
			NP	350	80x3 70 120 80x3 80	1/8 x3 1/8 1/8 1/20 x3 1/2	gtz-ckl-py x3 gtz-ckl-py gtz-ckl-py gtz-ckl-py x3 gtz-ep ser.	0 10 20 30 40 50 60 70 80 90	.10%		98%	93%	96533	.01	1.002	.10%	
			ND	360	80 70 80x3 50	5" 1/8 1/2 x3 1"	gtz-ckl-ep ser. Shear Zone gtz-ckl-ep py gtz-ep x3 gtz-ckl-ep py	0 10 20 30 40 50 60 70 80 90	.02%		93%	89%	96534	1.01	1.002	.0%	

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GIBRALTAR MINES LTD.

HOLE No. 8655
SHEET No. 8 of 9

ROCK TYPES & ALTERATION			GRAPHIC LOG	Value L to Core Axis	Width of Vain	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			Estimated Grade
	L to Core Foliation	Alteration Footage							LEACH CAP	LIM. ZONE	SUPERGENE			Sample Number	% Cu	% Mo	
			REMARKS			Footing Diameter											
	ND 70-80° wk	430	30 50 70° 120	1/8 1/2" 1/8 1/4	gtz - pied? Rubbed gray sericitic ore gtz-chl-carb-Py gtz-chl-ser-pied? py ser-pied-gg carb-gg-x2	0 10 20 30 40 50 60 70 80 90	.06%	-segregations in the same pattern as ep everywhere else are here a creamy off- white color?? pied?	428	97%	50%	96541	.01	1.002	?		
	ND 70-80° wk	440	10x3 45° 80°	1/2 x 3 1/10 1/8	carb-gg-x3 gtz-chl-py gtz-chl-ser-py	0 10 20 30 40 50 60 70 80 90	.05%		458	85%	42%	96542	.01	.002	?		
	ND.	450	70° 70° 50° 90° 6° 86°	1/16 2 1/20 1/2 1/8 1/6	gtz-dil-ser-carb-hem gtz-ep-ser-carb-hem gtz-carb-hem gtz-chl-ser-carb-hem gtz-ser-hem gtz-ep-carb-hem-py?	0 10 20 30 40 50 60 70 80 90	.02%	some hem. stain.	448	103%	82%	96543	.01	.002	0%		
	ND	460	70° 50° 80° 25° 50°	1 1/10 1/4" 1/2 1/16	Qtz Vh. gtz-carb-hem stain gtz-dil-ser-carb-hem w/ser. vng. L-py? gtz-ep-ser-carb-hem (ep?) sericitic-gg-hem	0 10 20 30 40 50 60 70 80 90	.04%	some hem. stain	458	101%	60%	96544	.03	1.002	1%		
	ND	470	80° 80° 110° 145° 110° 120°	1/4 1/16 1/10 1/16 1/16 1/12	qtz-chl Vh gtz-chl-ser-py gtz-chl-ser-py gtz-chl-ser-ep-py sericitic gouge gtz-ep-ser-py?	0 10 20 30 40 50 60 70 80 90	.03%		468	102%	67%	96545	1.01	.002	?		
147-500' v.e.g. Granite nitr. Phase Same as above except for a weak fer mod. some all of fsp.	ND	480	50°x2 130° 70°	1/16 x 2 1/20 1/16	sericitic-gg-x2 gtz-chl-py? gtz-pied?	0 10 20 30 40 50 60 70 80 90	.07%		478	92%	78%	96546	1.01	1.002	?		

Some sericitic text.

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GIBRALTAR MINES LTD.

HOLE No. 86-55
SHEET No. 9 of 9

ROCK TYPES & ALTERATION		L to Core Relection	GRAPHIC LOG		Veins L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			
			Relection Footage	Size/Type						LEACH CAP	LIM. ZONE			SUPERGENE	Footage Discr.	Sample Number	% Cu
		ND	110° 116° 110° 130°	1/20 1/20 1/8 1/20	gtz-chl-py gtz-ep-chl-py Qtz-ep gtz-ep-py			0%			100%	888	96547	1.01	1.002	0%	
		ND	70 x 2	1/20 x 2	gtz-ep x 2			0%			92%	918	96548	1.01	1.002	0%	
			500	1/30	1/10	gtz-ep					100%	500					
E. O. H. @ 500'																	
										<i>M.R. Shaw</i>							

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-56
SHEET No. 2 of 9

ROCK TYPES & ALTERATION			GRAPHIC LOG L to Core Foliation Alteration Fracture Structure	Veins L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
									LEACH CAP	LIM. ZONE	SUPERGENE			Sample Number	% Cu	% Mo	
80-117'	Saus. Alt ⁿ a little stronger here - no whitened areas.	80° Mod	130° 140° 110° 80 x 2 70° 90° 80 x 2	1/2 1/4 1/2 1/16 x 2 1/16 1/8	QtzUn.chl. boudinaged. Qtz.euh. fsp. ser. qtz. ep + dk. envel. qtz. ep. ser. x 2 qtz. ep. chl qtz. ser. schl	0 10 20 30 40 50 60 70 80 90		0%		88	102%	93%	96576	.01	.002		0%
		70-80° W.K. to Mod	80 x 3 60 80° 15° 70° 130° 145 x 3	1/16 x 3 1/16 1/16 1/20 1/2 1/2"	Qtz. chl. py x 2 Qtz. chl. ep Qtz. chl. am. ep. cc py ag. rubble Qtz. ser. (kl) - ep. cc Qtz. chl. am. py x 3	0 10 20 30 40 50 60 70 80 90		.02%	cc	99	88%	53%	96577	.04	<.002		.062
	Caran granit	45° 70° 80° W.K. to Str.	130° 145° 145° 80° 80° 110° 120°	13" 1/10 1/2 2 1/2" 1/20 1/2	Qtz. ser. chl - ep. cc - py Qtz. chl. ser. carb. py Qtz. chl. ser. ep. cc. py. lim. ag. Qtz. ser. chl. py. ep. cc Qtz. chl. ser. py Qtz. chl. ser. py. ep. cc	0 10 20 30 40 50 60 70 80 90		.20%	cc	108	90%	50%	96578	.19	<.002		.35%
	117-125' A grey alt'd QD	60-80° W.K.	145° 130° 145° 145° 120°	1/2 1/4 1 1/16 1/25"	Qtz. chl. ser. py Qtz. chl. ser. py. ep. cc Qtz. ep. ser Qtz. ser. ep QtzUn.chl. - Uugo Qtz. chl	0 10 20 30 40 50 60 70 80 90		.02%		118	100%	73%	96579	.02	<.002		0%
	- no sauss., some ep. segregation.	NO 70° W.K. to Mod.	145° 145° 145° 15° 130°	1/2 1/4 1/8 1/8 1/20	Qtz. ep. chl. ep. py Qtz. chl. ep. py Qtz. ep. chl Qtz. chl. ep. py Qtz. chl. ser. ep. - ep. py. - cc. py Qtz. chl. ep. py	0 10 20 30 40 50 60 70 80 90		.01%		128	98%	82%	96580	.01	.002		.09%
	125-114 A whitened zone - W.K. sauss., subhedral to euhedral fsp.	80° W.K.	130° 130 x 4 145° 70 x 2 80° 130°	1/8 x 4 1/8 1/20 x 2 1/4	Qtz. chl. ser. lim. chl. am. py. ep. Qtz. chl. py x 2 Caran chl. ep. ser. - hem Qtz. - ep	0 10 20 30 40 50 60 70 80 90		.04%		138	92%	63%	96581	.03	<.002		.04%

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GIBRALTAR MINES LTD.

HOLE No. 86-56
SHEET No. 3 of 9

ROCK TYPES & ALTERATION		L to Core Foliation	GRAPHIC LOG	Vein L to Core Alt	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
									LEACH CAP	LIM. ZONE	SUPERGENE			Sample Number	% Cu	% Mo	
144-151 Qtz. Ser Shear -py-cp-cl		80° Str.	150	80° 80x2	1/2 1/20x2	qtz-ser shear - vug - py - cp - cl qtz. chl - py xz	0 10 20 30 40 50 60 70 80 90	5%			100%	66%	96582	.37	.002	.50%	
151-153 A White AD as above 153-160 Qtz - Ser Shear Zone		Var. Str.		150	Var	7'	qtz-ser shear - py - cp - cl		0 10 20 30 40 50 60 70 80 90								148
160-163 A White AD as above 163-168 Qtz - Ser Shear Zone		Var. Str.	160	50° 60-80	1/20 " 8"	qtz. ser - py - cp qtz. ser - py - cp - cl	0 10 20 30 40 50 60 70 80 90	3%			91%	47%	96583	.17	.002	.25%	
168-170 Qtz - Ser chl. Shear/ AD / OK Alt.		80° Str.		160	Variable	7'	qtz. ser Shear Zone -py - cp - cl Some qtz vug		0 10 20 30 40 50 60 70 80 90								158
170-178 Qtz Ser Shear / Wt AD / OK Alt.		80° Str.	170	80°	1/2 16x15	A strong Qtz. Ser Shear py - cp - cl Some qtz vug.	0 10 20 30 40 50 60 70 80 90	3%			100%	35%	96584	.22	.002	.25%	
178-180 Qtz - Ser chl. Shear/ AD / OK Alt.		80° Str.		170	80°	5'	qtz. ep. chl - py qtz. ser - py x 15'		0 10 20 30 40 50 60 70 80 90								168
180-188 Qtz - Ser chl. Shear/ AD / OK Alt.		80° Str.	180	80°	1"	qtz. ser - py - cp qtz. ser - py - cp - cl	0 10 20 30 40 50 60 70 80 90	2%			82%	50%	96585	.09	.002	.18%	
188-190 Qtz - Ser chl. Shear/ AD / OK Alt.		80° Str.		180	80°	1"	qtz. ep. chl		0 10 20 30 40 50 60 70 80 90								178
190-238 Rock grades in and out of a slightly stained white ad w/ chloritic veinlets and qtz ser or qtz-ser. chl Shears		60° 80° WK Str	190	60° 30°	1/16 x 4 12" 2" 1" 1/2	qtz. chl. py x 10 qtz. chl. ser - py x 4 qtz. ser - py - cp - cl py - cp - cl - qtz py - cp - cl - qtz qtz. ser - py - cp - cl	0 10 20 30 40 50 60 70 80 90	5%			97%	53%	96586	.10	.002	.35%	
190-238 Rock grades in and out of a slightly stained white ad w/ chloritic veinlets and qtz ser or qtz-ser. chl Shears		60° 80° WK Str		190	60° 30°	1/16 x 4 12" 2" 1" 1/2	qtz. chl. py x 10 qtz. chl. ser - py x 4 qtz. ser - py - cp - cl py - cp - cl - qtz py - cp - cl - qtz qtz. ser - py - cp - cl		0 10 20 30 40 50 60 70 80 90								188
190-238 Rock grades in and out of a slightly stained white ad w/ chloritic veinlets and qtz ser or qtz-ser. chl Shears		60° 80° WK Str	200	60° 30°	1/16 x 4 12" 2" 1" 1/2	qtz. chl. py x 10 qtz. chl. ser - py x 4 qtz. ser - py - cp - cl py - cp - cl - qtz py - cp - cl - qtz qtz. ser - py - cp - cl	0 10 20 30 40 50 60 70 80 90	9%			100%	93%	96587	.02	.002	.09%	
190-238 Rock grades in and out of a slightly stained white ad w/ chloritic veinlets and qtz ser or qtz-ser. chl Shears		60° 80° WK Str		200	60° 30°	1/16 x 4 12" 2" 1" 1/2	qtz. chl. py x 10 qtz. chl. ser - py x 4 qtz. ser - py - cp - cl py - cp - cl - qtz py - cp - cl - qtz qtz. ser - py - cp - cl		0 10 20 30 40 50 60 70 80 90								198

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GIBRALTAR MINES LTD.

HOLE No. 86-56
SHEET No. 4 of 9

ROCK TYPES & ALTERATION	L to Core Foliation Alteration Footage Strike/Dip	GRAPHIC LOG	Vains L to Core Alt	Width of Vain	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Footage Block	Estimated Core Recovery %	R O D	ASSAY RESULTS			
								LERCH CAP	LIM. ZONE				Sample Number	% Cu	% Mo	Estimated Grade
	80 WK to Str.		80° 115° 90° 210	1/16 1/20 1/16 1/2" 11 24"	gtz-cht-rm-py-cp gtz-ep-cht-py gtz-cht-py Qtz Vn - vugs gtz-ep-cht-rm-py + Qtz Vn - py-ccz gtz-ep-rm + Qtz Vn - py	0 10 20 30 40 50 60 70 80 90	5%		208	98%	67%	96588	.14	.002	.09%	
	60-80 WK to Str.		160° 130° 130° 170°	1/20 1/4 1/20 2"	gtz-cht-ser-py gtz-cht-ep-ser-ep-py gtz-ser-cht-py Qtz Vn	0 10 20 30 40 50 60 70 80 90	100%		218	100%	61%	96589	.01	1.002	.01%	
	80° WK		70° 80° 90° 230	3 1/16 5' 2'	Qtz Vn - Lcht gtz-cht-ep gg rubble B.A.K. cov. hem.	0 10 20 30 40 50 60 70 80 90	.01%		228	63%	20%	96590	.01	1.002	.01%	
227-230° Fault Zone (20% gg 80% rubble).	80 Str to ND		160° 180° 80° 240	2" 1/8 6' 3 1/2 1/2 x 2	gtz Vn - vugs Qtz Vn - cht-hem. Str showed gtz- and de show. some hem stain Fault gg gtz-cht-hem-zz	0 10 20 30 40 50 60 70 80 90	.01%		234	75%	13%				.01%	
Fault Contact 238-255°	80 Str to ND		160° 180° 80° 240	2" 1/8 6' 3 1/2 1/2 x 2	gtz Vn - vugs Qtz Vn - cht-hem. Str showed gtz- and de show. some hem stain Fault gg gtz-cht-hem-zz	0 10 20 30 40 50 60 70 80 90	.01%		234	92%	240				.01%	
Hem St. Granite Mount. Phase(?) 240% gtz as large grains or eyes	ND		130° 120° 30° 240	1/20 x 2 1/20 1/2 2"	gg-hem gtz-cht-hem rubble	0 10 20 30 40 50 60 70 80 90	.01%		244	90%	52%				.01%	
- 5% chl. - some in sp.	80 WK to Str.		100° 70° 80° 260	1/20 5 3 1/2 x 3	gg-hem. gtz-cht-hem gtz-cht-hem-zz gtz-cht-hem-zz	0 10 20 30 40 50 60 70 80 90	.1%		252	97%	62%				.18%	
255-267 Hem St. Granite Zone	80 WK to Str.		100° 70° 80° 260	1/20 5 3 1/2 x 3	gg-hem. gtz-cht-hem gtz-cht-hem-zz gtz-cht-hem-zz	0 10 20 30 40 50 60 70 80 90	.1%		258	97%	62%				.18%	

Drillers' Comment:
208-388' - Ground
v. hard - pulled
out to change bit
- caved @ 280'
- new bit & mud
to get through

Poor Recovery

Hem Stain

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GIBRALTAR MINES LTD.

HOLE No. 86-56
SHEET No. 5 of 9

ROCK TYPES & ALTERATION	L to Core Foliation Alteration Footings Stratigraphy	GRAPHIC LOG	Vains L to Core Axis	Width of Vain	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS				
								LEACH CAP	LIM. ZONE			Footings Block.	Sample Number	% Cu	% Mo	
267-280 A sheared gtz-rich	80° Str. Some Con.		80°	7'	gtz Str. Lchi Shear Some Q-z Vns. No sulphides noted		0%			100%	56%					0%
267-280 A sheared gtz-rich	70° Mod.	270	80°	1/20	gtz-ep		0%			100%	60%					0%
280-300 GRANITE MTN. PHASE (2) - large grains or eyes of gtz. n 40 to 45% of rock	60° Mod to Str	290	70°	2 1/2	Dyke - chlt. rows for -ep gtz. chl. ep gtz. ep x2		0%			104%	92%					0%
n 5% chl. - mod to str. folm - v. wk seen alt m	60° Mod to Str	300	80°	1	gg (chloritic - sensitive) gtz - sulphide tagay min. (?)		0%			99%	75%					0%
300 - A whiter version of the above - less chlorite - Very gtz rich	70° Wk	310	50°	1/8	gtz-ep gtz-ep gtz. emb - horn x3		0%			100%	92%					0%
	70° Wk	320	80° x4	1/4	gtz. ep x4 gtz. v. rich gtz-ep		0%			99%	95%					0%

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GIBRALTAR MINES LTD.

HOLE No. 86-56
SHEET No. 6 of 9

ROCK TYPES & ALTERATION			GRAPHIC LOG L to Core Foliation Alteration Footage Feet	Vane L to Core Alt	Width of Vane	Mineralisation	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
									LEACH CAP	LIM. ZONE	SUPERGENE			REMARKS	Footage Block.	Sample Number	% Cu
			45° v.w.k	95° 10	1/20 x 10	gtz-ep x 10	0 10 20 30 40 50 60 70 80 90	0%			328	106%	100%				0%
			50 -80 v.w.k	80° 15	1/20 x 10 1/16 x 4	gtz-ep x 10 gtz-ep x 4	0 10 20 30 40 50 60 70 80 90	0%			338	103%	93%				0%
			70 80 40K to St.	80° 15	1/2 1/10 x 2	gtz-ep x 10 gtz-ep x 2	0 10 20 30 40 50 60 70 80 90	0%			348	99%	91%				0%
			60 -70° St	70° 15	3' 2"	gtz-ep x 10 gtz-ep x 2 -carb	0 10 20 30 40 50 60 70 80 90	10%	- some piedmontite		358	100%	70%				0%
			45 -70 Mid to St.	55° 70	1/2 1/8	gtz-ep gtz-ep-carb-chl-ep	0 10 20 30 40 50 60 70 80 90	0%	- piedmontite - Sphalerite in fracture		368	96%	94%				0%
			45° Mid to St.	45° 15	1/4	gtz-ep-pied-chl-Sph	0 10 20 30 40 50 60 70 80 90	0%			378	103%	98%				0%
			50-60% gtz h.c.c	45° Mid to St.	1/4 6 + 1/2	gtz-ep-pied-chl-Sph gtz-ep-pied-ep-Sph gtz-ep-pied-ep-Sph gtz-ep-pied-ep-Sph gtz-ep-pied-ep-Sph gtz-ep-pied-ep-Sph	0 10 20 30 40 50 60 70 80 90	0%			380						0%

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GIBRALTAR MINES LTD.

HOLE No. 86-56
SHEET No. 8 of 9

ROCK TYPES & ALTERATION		L to Core Feet/Inch	GRAPHIC LOG		Yield L to Core Ash	Width of Vial	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTNS		Estimated Core Recovery %	R O D	ASSAY RESULTS				
			Positive Alteration Feet/Inch	Size/Inch						LEACH CAP	LIM. ZONE			SUPERGENE	Feet/Inch Blocks	Sample Number	% Cu	% Mo
		ND		70 x 2	1/8 + 1/4		gtz-ep x 2		0%		90%	65%						
		ND		170	1/8		gtz-ep-Lch		0%									
		ND		450	30 x 2	1/20 x 2	gtz-chl-ep		0%		448							
		ND		150	1/8		gtz-dl-ser-py		10%			120%	450					
		ND		45	1/8		gtz-chl-ser		10%									
		ND		30 x 2	1/16 x 2		gtz-dl-ser-py		10%		456		67%					
		ND		460	80 x 3	(2 1/2) + 1"	gtz-chl-ser-ep-pid		0%				460					
		ND		80 x 2	1/8 x 2		gtz-ep x 2		0%			95%						
		ND		130 x 4	1/20 x 2 (1/16 x 2)		gtz-chl-ep x 9		0%		466		92%					
		ND		470					0%									
		ND		450	1/10		gtz-dl-ser-py-Lch		10%			100%	470					
		ND		80	1/4		gtz-dl-ep-ser-py-ep		10%									
		ND		490	1/2		gtz-dl-ser-py-ep		10%		476		97%					110%
		ND		80 x 2	1/2 x 2		gtz-ep x 2		0%				480					
		ND		170	1/8		gtz-ep		0%			100%						
		ND		80	1/2		gtz-ep-chl		0%									
		ND		490	80		gtz-ep		0%		487		89%					0%
		ND		195	1/2		carb-hem		0%		488	100%	490					
		ND		120	1/4		gtz-ep		0%									
		ND		70	1/2		gtz-ep-pid-chl		0%									
		ND		500	1/16		gtz-ser-dl		0%		498	100%	500					0%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-57
SHEET No. 1 of 9

LOCATION GIB. EAST (N.W. EXT.) BEARING _____ LATITUDE ~ 51,092.00 N CORE SIZE N.O.W. LOGGED BY G.D.B.
 DATE COLLECTED 23-Sept-86 LENGTH 496' DEPARTURE N 13 210,00 E SCALE OF LOG 1" = 16' DATE Oct 9, 1986
 DATE COMPLETED 29-Sept-86 DIP -90° ELEVATION ~ 3153 REMARKS _____

ROCK TYPES & ALTERATION	L to Core Foliation Foliation Alteration Feet Stratigraphy	GRAPHIC LOG	Voids L to Core Alt	Width of Voids	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Feet Blocks	Estimated Core Recovery %	R O D	ASSAY RESULTS					
								LEACH CAP	70'				Sample Number	% Cu	% Mo	Estimated Grade		
<u>Casing To</u> <u>51' 50'</u>																		
<u>MINE PHASE</u> <u>QUARTZ</u> <u>DIORITE</u> <u>(52' - 395)</u>	30 Mod			6'	broken, lim. qtz core		0			56	70	0	11576	.01 0.010x	2.001		.05	
med grn 25 % qtz 20 % chl 55 % saus. plag.	30-60 Mod		60-40 x 5 70	1/2 - 1/2 x 5 2"	lim x 5 qtz-lim		0		64	85	80	0	11577	.02 .010x	2.001		.05	
sl. finer grnd than normal and poss. a lower qtz content	80 wk		70	1"	qtz		0		76	85	90	23	11578	.13 .060x	2.001		.05	
	80 wk		60-80	14" 2" x 3"	qq-qtz qtz-chl x z		4.5		78	75	75	33	11579	.10 .020x	2.001		.05	
			60	28"	qtz-chl-carb ((pr)) zone				82									
			70	1/4"	qtz-chl				85									

* Note: 56 not coded
in computer. This is
not an 56 blanket.
n.r.t.

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-57
SHEET No. 2 of 9

ROCK TYPES & ALTERATION			GRAPHIC LOG				MINERALOGY	FRACTURE ANGLE TO CORE AXIS - FREQUENCY -	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE	SUPERGENE			Sample Number	% Cu	% Mo	
70 WK	2.0 x 2	1/3 x 2	qtz (cp) x 2	qtz-chl	1/3	1/3	0	<.5			98	87	11580	.02	2.001		.08	
							10											20
80 WK	3.5	1/2	qtz	qtz-chl (py)	1/2	1/2	0	<.5			95	67	11581	.01	2.001	.06	.05	
							10											20
80 str	80	3'	qtz-chl-carb zone				0	2.0			98	43	11582	.03	.001		.08	
							10											20
80 WK	0-5	2'	qtz-chl-carb (cp) zone	qtz	14"	14"	0	<.5			95	40	11583	.02	.001		.05	
							10											20
80 WK	40	1/2	qtz-chl				0	<.5			90	43	11584	.01	2.001		.05	
							10											20
80 Mod	96	6'	qtz-ser-py				0	1.5			95	70	11585	.01	2.001	.12	.05	
							10											20
80	80 x 3	1/2 x 3	qtz-chl x 2	qtz-chl	10"	10"	0				148			<.01 x		3005		
							10											20

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-57
SHEET No. 3 of 8

ROCK TYPES & ALTERATION		GRAPHIC LOG L to Core Foliation Alteration Percentage Dip Yield L to Core Alt	Yield L to Core Alt	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Feasible Depth %	Estimated Core Recovery %	R O D	ASSAY RESULTS			
								LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu
		40-50 STR	160	10	qtz-ser-chl qtz-ser-py (sp) zone (2-14" zones of massive py (sp))	0 10 20 30 40 50 60 70 80 90	30.0%			158	98	53	11586	.62 1.01ox	.001	.25
		45-80 STR	170	6" x 3" 5'	qtz-chl-py zone x2 qtz-ser-py (cp)	0 10 20 30 40 50 60 70 80 90	25.0%			168	98	63	11587	.22 1.01ox	.001	.20
		ND	180	10" 2"	qtz qtz-chl-carb-pied	0 10 20 30 40 50 60 70 80 90	0.5			178	98	73	11588	.01 1.01ox	1.001	.05
		70-80 STR	190	4' 30"	qtz-ser-py (cp) zone qtz-chl-py zone	0 10 20 30 40 50 60 70 80 90	6.0%			188	95	80	11589	.10 1.01ox	1.001	.15
		70-80 STR	200	30" 10'	qtz-chl-carb-py zone qtz-ser-(chl)-py-cp zone	0 10 20 30 40 50 60 70 80 90	10.0%			198	98	67	11590	.58 1.01ox	1.001	.28 2700 .35
		5-30 STR	210	24"	qtz-ser-py-cp zone	0 10 20 30 40 50 60 70 80 90	5.0%			208	95	70	11591	.48 1.01ox	1.001	.40

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-57
SHEET No. 7 of 8

ROCK TYPES & ALTERATION			GRAPHIC LOG	Value L in Core All	Width of Vain	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PIRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS					
									LEACH CAP	LIM. ZONE	SUPERGENE			Feelite Blk.	Sample Number	% Cu	% Mo		Estimated Grade
			60	2'		qtz-ser-py (cp) (cc)	0 10 20 30 40 50 60 70 80 90												
		GRANITE MTN PHASE	60 40a	2" 4"		qtz qtz-chl-ep (vug)	50 60 70 80 90	2.0		396	90	50	11610	.27 1.01 ox	1.002				.15
		QUARTZ DIORITE (395-496') - coarse grn (Xo-X*) - sheaved + alt'd, tex. not distinct. - 45% qtz as large (1/4-1/2") aggregates 10% chl as roset det; 45% sans plagi - grades in places to various leucocratic phases	50 45 40	10" 2 1/2" 1/2"		qtz-ser-ep (cc) qtz-ser-py (cp) qtz-ser-ep (cc)	0 10 20 30 40 50 60 70 80 90	3.0		406	98	87	11611	.55 .017	1.002				.40
			45	5'		qtz-chl-ep (py) zone	0 10 20 30 40 50 60 70 80 90	1.5		416	95	57	11612	.03	1.002	.30 2735			.10
		- from 475-496 the chl. conc is 0-5% with qtz. up to 35%	30- 45 Str.	2' 10'		qz + lost core qtz-chl-carb-py	0 10 20 30 40 50 60 70 80 90	5.0		426	60	23	11613	.09	1.002				.12
			ND			qtz (py) (cp) qtz	0 10 20 30 40 50 60 70 80 90	.5		431	90	63	11614	.04	1.002				.05
			5- 80 Str. Mud	16" 12" 6" 2"		qtz-ser-py qtz-ser-py qtz-py qtz-ser-py	0 10 20 30 40 50 60 70 80 90	8.0		447	98	57	11615	.11	1.002				.12

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-58
SHEET No. 1 of 4

LOCATION NW of 616-East BEARING _____ LATITUDE N 52 15 N CORE SIZE NQ Wireline LOGGED BY M.R.T
 DATE COLLARED 25-Sep-86 LENGTH 269' DEPARTURE N 42 00 E SCALE OF LOG 1"=10' DATE Dec. 12, 1986
 DATE COMPLETED 25-Sep-86 DIP -90 ELEVATION " 30.39' REMARKS Entire hole is within a fault system

ROCK TYPES & ALTERATION		GRAPHIC LOG		Veins ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS					
		∠ to Core	Foliation						Leach Cap	LIM. ZONE			SILPERGENE	Feet/Block	Sample Number	% Cu	% Mo	
	Cased to 80'																	
	Mine Phase QD. - med gr., foliated M.P. QD - sans alt'd fp - chloritized mat. is ~30% gtz - a few narrow zones of DK Alt'm w/ ep. segregation - hem stain in places			10+30 70 10° 90 20° 60 70+100	1/20 x 2 1 h/c 3' 1/8 1/20 1/20 x 2	gtz-chl x 2 gtz-ep. chl - mal hem gg - (brkn core) gtz-chl-carb-hem gtz-ep gtz-chl-ep x 2	0 10 20 30 40 50 60 70 80 90 100	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		80 85 90 93 100 109 111 117	80 3% 30% 6% 100 3% 110 0% 120							
		60-70° WK		50° 20° ? fragment?	1/16 1/16 1" diam " "	gtz-chl-carb-hem gtz-chl-carb-hem gtz-ep-ep w eno whitened looking rock	0 10 20 30 40 50 60 70 80 90 100	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		100 109 111 117	100 6% 3% 110 0% 120							
		80° -60° WK 10 10 Mod.		8° - 70± 60°	1/16 1" 1/16 x 2 1/16	hem - carb gg - brkn core gtz-chl-hem x 2 gg-hem	0 10 20 30 40 50 60 70 80 90 100	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%		110 111 117	110 3% 120							

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-58
SHEET No. 2 of 4

ROCK TYPES & ALTERATION			GRAPHIC LOG	V. to Core Alt.	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS - FREQUENCY -	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			
									LEACH CAP	LIM. ZONE			SUPERGENE	REMARKS	Sample Number	% Cu
			80° v.wk	130	3'	gls. mudst. hem mainly gg & rubble - hemst Some py seen in weathering	0-100	0.2%		122	55%	0%				0%
			58° wk	140		sp. seen on some broken surfaces.	0-100	102%	hem stain.	132	30%	130				0%
			80° wk to Mod	150	10°	gg - hematitic rubble gg - hem	0-100	0%		145	40%	150				0%
			80° v.wk	160		gouge & rubble core - hem No py seen	0-100	0%		156	29%	160				0%
			80° v.wk	170	5°	gg rubble - gouge core - rubble hem stain - no py seen	0-100	0%		160	25%	167				0%
			45° 20° v.wk	180	4"	gls - hem - cl. gg - rubble hem T-py. seen in ch. grains	0-100	0.2%		171	50%	178				0%
				180	4"	gg - rubble - hem	0-100			178	20%	180				0%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-58
SHEET No. 3 of 4

ROCK TYPES & ALTERATION	L to Core Foliation Alteration Feet Shale	GRAPHIC LOG	V. to Core Alt.	DIP OF VEIN	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			
								LEACH CAP	LIM. ZONE			Supergene	REMARKS	Feet	Direction
Some fresher looking matrix here.	70° WK to ND	190			Mainly broken core - some rubble & gougy core - horn. - no vns or sulphides seen	0 10 20 30 40 50 60 70	0%		185	47%	6%				0%
196-199' Altered zone w/ lots of segr. of the ep + ch. min's. Also some reconcentrated frags. - some py in it.	80° WK to ND.	200	10°	1/16	gtz - chl - horn - chl. - (py) - see comment @ left. horn - gtz - chl gtz - chl - py Friable gougy core has py	0 10 20 30 40 50 60 70	.03%	Ham Stein.	196	50%	0%				0%
Better sec. + RAD here. The rock is fit to mat. gr. Saus. & QD	80° WK to ND.	210	15°	1/20	gtz - chl - horn x 2	0 10 20 30 40 50 60 70	.10%		206	60%	0%				0%
225-228' A whitened section of core w/ lots of ep + chl segregation.	80° WK to ND.	220	80°	3" x 2	gg - rubble - horn x 2 gtz - chl - ep - w horn x 3 gtz - chl - py x 2 gg + rubble - horn	0 10 20 30 40 50 60 70	.03%	ep + min det. grains	214	74%	45%				0%
228-237 There is some remnant horn blades here. subtle var. ep + w - it	80° WK to ND.	230	20°	1/4	gtz - ep - chl gtz - ep - chl gtz - ep - chl x 2	0 10 20 30 40 50 60 70	.03%		228	70%	16%				0%
237-240 Otz - chl - an. Rk. Slightly showed - ep - lead?	80° WK to ND.	240	15°	1/8	gtz - ep - chl gtz - chl - horn - chl gtz - chl - horn - chl gg + rubble	0 10 20 30 40 50 60 70	.02%		236	84%	22%				0%

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-58
SHEET No. 4 of 4

ROCK TYPES & ALTERATION		GRAPHIC LOG	V. to Core	V. to Core	V. to Core	V. to Core	V. to Core	V. to Core	FRACTURE ANGLE TO CORE AXIS - FREQUENCY -	ESTIMATED % PYRITE	BOTTOM DEPTHS		CORRECTION	EST. CORE RECOVERY %	R O D	ASSAY RESULTS			
											LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu
246-269 This rock is strongly hard & therefore identification is difficult. Some schistose mafic are seen so it is likely similar to 228-237.	80 Mld to ND	250	60°	1/20	gtz. calc. py	0	.02%	hom stain	241	70%	0%	250							
			50	1"	gtz. calc. py	10													248
			40		gtz. calc. py	20													
			30		gtz. calc. py	30													
20		gtz. calc. py	40																
ident. difficult. Some schistose mafic are seen so it is likely similar to 228-237.	ND	250	60°	1/10	gtz. calc. py	0	.01%		256	54%	3%	260							
			50	1/8	gtz. calc. py	10													
			40		gtz. calc. py	20													
			30		gtz. calc. py	30													
- op seg. here - some cemented frag.	?	269	10x4	1	gg + rubble - horn	0	.0%		263	70%	6%	269							
			50		gg + rubble - horn	10													
			40		gg + rubble - horn	20													
			30		gg + rubble - horn	30													
E.O.H. @ 269' Hole Lost.		269	145	1	gtz. calc. py	0			267	65%									
			50		gtz. calc. py	10													
			40		gtz. calc. py	20													
			30		gtz. calc. py	30													

M.R. Sloan

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-59
SHEET No. 2 of 9

ROCK TYPES & ALTERATION			GRAPHIC LOG L to Core Feililisa Alteration Footage Strike V. Vein L to Core Alt	Width of Vein	Mineralisation	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
								LEACH CAP	LIM. ZONE	SUPERGENE			REMARKS	Sample Number	% Cu	% Mo
		90 Mod- WK	80	45-60 az 80° 80°	4"±3" 7" 9"	qtz-ep az qtz-ep qtz-ep	0				98					.01
		80 Mod- WK	90	90	1/10 6"	py chl-carb zone	<0.5				100					.01
		90 WK	100	30	1/2	qtz-ep	0				100					.01
		90 WK	110				0				100					.01
			120	70 40 2"	2" 3" 6"	qtz-ep-chl qtz-chl-carb (vug) qtz-ep	0				100					
		90 WK	130	60	4"	qtz-ser-chl-carb-py	2.0				100					.05

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-59
SHEET No. 3 of 9

ROCK TYPES & ALTERATION			GRAPHIC LOG	Values ∠ to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS			
									Leach Cap	LIM. ZONE	SILPERGENE			Sample Number	% Cu	% Mo	
			25 80 90	1/4 1 + 1/4 x 3 1 1/2		qtz qtz-ep + qtz-ep	0				98						.01
			60 55	6° 14"		chl-py(ep) chl-py-gg(lim) qtz-py	2.0				95						.05
			70 80 x 2 90 x 2	6° 2" x 2 6" x 2		gg-bx chl-ep x 2 dk. alt. zone	0				98						.01
			80 15	1/4 1/5		qtz (+ ep halo) qtz-carb (+ ep halo)	0				100						.01
			80 170				0				100						.01
			80 180	40 x 3 1/2 x 3		qtz-ep x 3	0				98						.01
			190 45	1/5		qtz-ep	0				98						.01

dk alt. zone
(mainly incr chl)

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 86-59
SHEET No. 4 of 9

ROCK TYPES & ALTERATION			L to Core Foliation Attitude	GRAPHIC LOG Feet Meters	Veins L to Core Attitude	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Estimated Core Recovery %	R O D	ASSAY RESULTS				
										LEACH CAP	LIM. ZONE	SUPERGENE			REMARKS	Feet Meters	Sample Number	% Cu	% Mo
			ND	200	45	1/4	qtz-ep	0 10 20 30 40 50 60 70 80 90	<0.5			198	98					.01	
			ND	210	60	1/3	qtz-chl-py	0 10 20 30 40 50 60 70 80 90	<0.5			208	100						.01
			80 WK	220	25	1/6	gg-hem	0 10 20 30 40 50 60 70 80 90	0			218	100						.01
			70 WK	230	25	1/10	gg-hem	0 10 20 30 40 50 60 70 80 90	0			228	100						.01
			70 WK	240	30	1/4	qtz (+ ep halo)	0 10 20 30 40 50 60 70 80 90	0			238	100						.01
			70 WK	250	55	1/6	qtz-chl	0 10 20 30 40 50 60 70 80 90	0			248	98						.01

GRID _____

GIBRALTAR MINES LTD.

HOLE No. B6-59
SHEET No. 6 of 9

ROCK TYPES & ALTERATION			GRAPHIC LOG	Vains ∠ to Core Alt	Width of Vain	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS			
	∠ to Core Foliation	Alteration Footage							LEACH CAP	LIM. ZONE			SUPERGENE	REMARKS	Footage Block.	Sample Number
	ND	320	20 10 45 10x3	1/2 3" 1/2 1/20x3	qts qts carb gg-hem x 3	0 10 20 30 40 50 60 70 80 90	0			317	90				.01	
	ND	330	20 60 70	1" 2" 6"	carb-hem qts-chl chl-qts-carb-chl	0 10 20 30 40 50 60 70 80 90	0			327	100				.01	
	50 wk	340	50 60	14" 1"	qts-chl-Carb zone qts-chl-carb	0 10 20 30 40 50 60 70 80 90	0			337	100				.01	
	50- 80 str	350	50-80	7'	qts-chl-carb zone	0 10 20 30 40 50 60 70 80 90	0			346	95				.01	
	?	360	?	8'	carb-hem-gg zone (not a strong fault - mainly a zone of red-hem replacement of spar + chl, laced by carb veinlets)	0 10 20 30 40 50 60 70 80 90	0			353	98				.01	
		370	?	2'	carb-hem-ox	0 10 20 30 40 50 60 70 80 90				343						
		370	50	2'	chl-carb-hem-gg	0 10 20 30 40 50 60 70 80 90				95						

GEOLOGICAL BRANCH ASSESSMENT REPORT

15,796

ZE 6
7099(8)
2N X 5W

ZE 5
7101(7)
1N X 5E

ZE 3
3927(8)
(5S X 4W)

ZE 1

458(7)

HY 20
3247(3)
(2N X 1W)

HY 10
1667(6)
(4N X 3E)

HY 12
1669(6)
(7N X 2W)

HY 13
1670(6)
(6N X 1E)

HY 9
1666(6)
(2N X 1W)

HY 22
6693(1)
2N X 1W

ERIC 1
3008(III)
(4N X 5W)

ERIC 2
3009(III)
(4S X 4W)

HY 8
1665(6)
(3S X 1W)

HY 11
1668(6)
(5S X 2E)

HY 5
1710(6)
(2N X 6E)

HY 3
1711(6)
(3N X 3W)

HY 7
676(5)
675(5)

HY 6
675(5)

HY 4
673(5)

JB 2
7725(6)
2N X 1W

HY 1
671(5)

JB 3
7726(6)
1S X 1W

L. 3708
M 461

L. 3710
M 48

L. 3709
M 47

L. 3707
M 45

L. 3706
M 44

L. 3596
M 34

L. 3601
M 39

L. 4180
M 88

L. 4149
M 84

L. 3707
M 45

L. 3706
M 44

L. 3596
M 34

L. 3601
M 39

L. 3602
M 40

L. 3711
M 49

L. 3604
M 42

L. 4148
M 83

L. 4147
M 82

L. 3597
M 35

L. 3596
M 36

L. 3599
M 37

L. 3600
M 38

L. 3603
M 41

L. 3604
M 42

L. 4148
M 83

L. 4145
M 81

L. 3713
M 51

L. 4136
M 86

L. 4137
M 86

L. 4138
M 87

L. 3603
M 41

L. 3604
M 42

L. 4139
M 88

L. 4138
M 87

L. 4137
M 86

L. 4136
M 86

L. 4136
M 86

L. 4137
M 86

L. 4138
M 87

L. 3603
M 41

L. 3604
M 42

L. 4139
M 88

L. 4138
M 87

L. 4137
M 86

L. 4136
M 86

L. 4136
M 86

L. 4137
M 86

L. 4138
M 87

L. 3603
M 41

L. 3604
M 42

L. 4139
M 88

L. 4138
M 87

L. 4137
M 86

L. 4136
M 86

L. 4136
M 86

L. 4137
M 86

L. 4138
M 87

L. 3603
M 41

L. 3604
M 42

L. 4139
M 88

L. 4138
M 87

L. 4137
M 86

L. 4136
M 86

L. 4136
M 86

L. 4137
M 86

L. 4138
M 87

L. 3603
M 41

L. 3604
M 42

L. 4139
M 88

L. 4138
M 87

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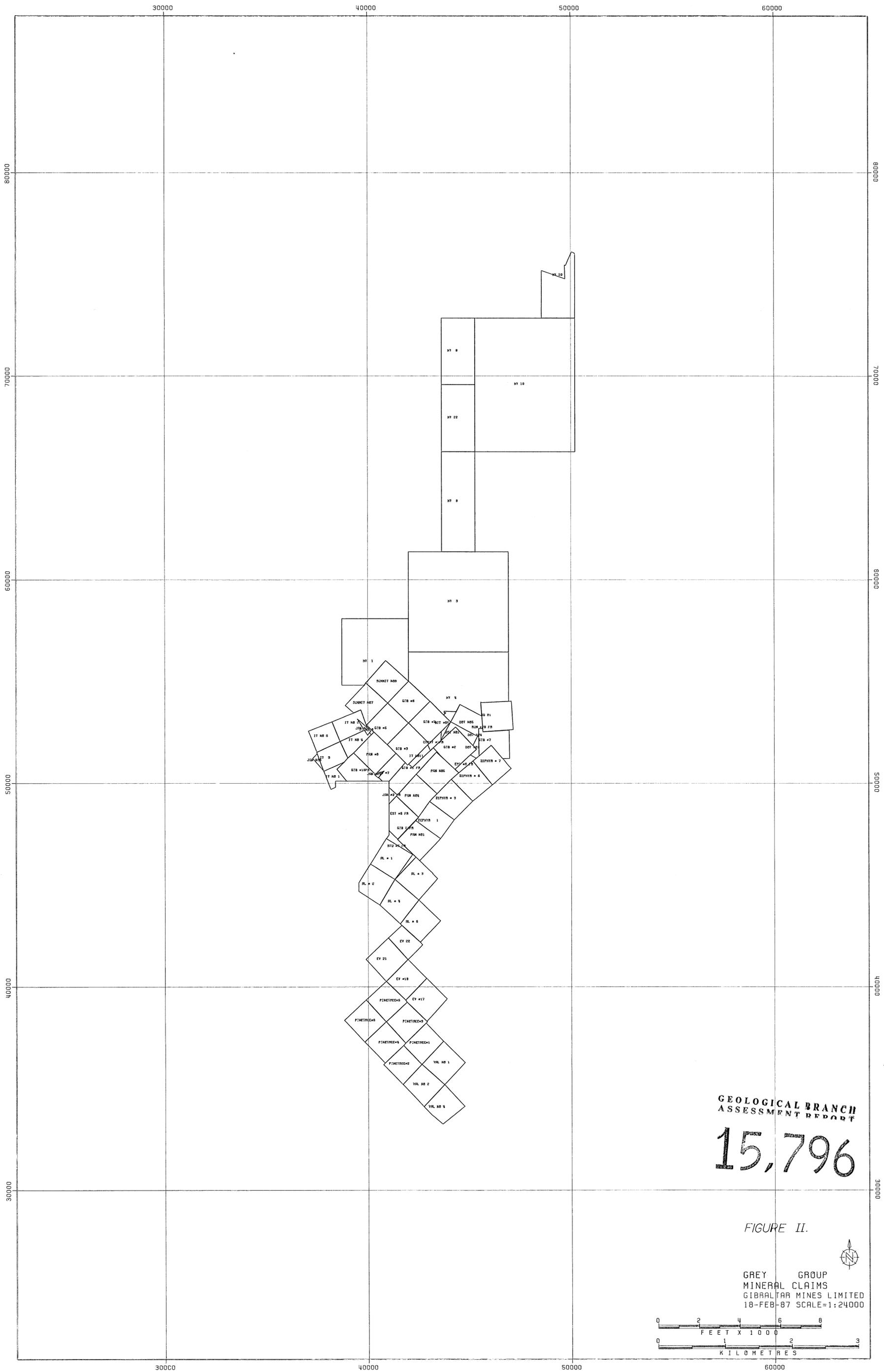
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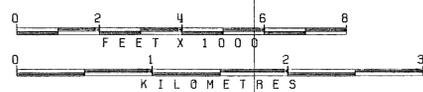
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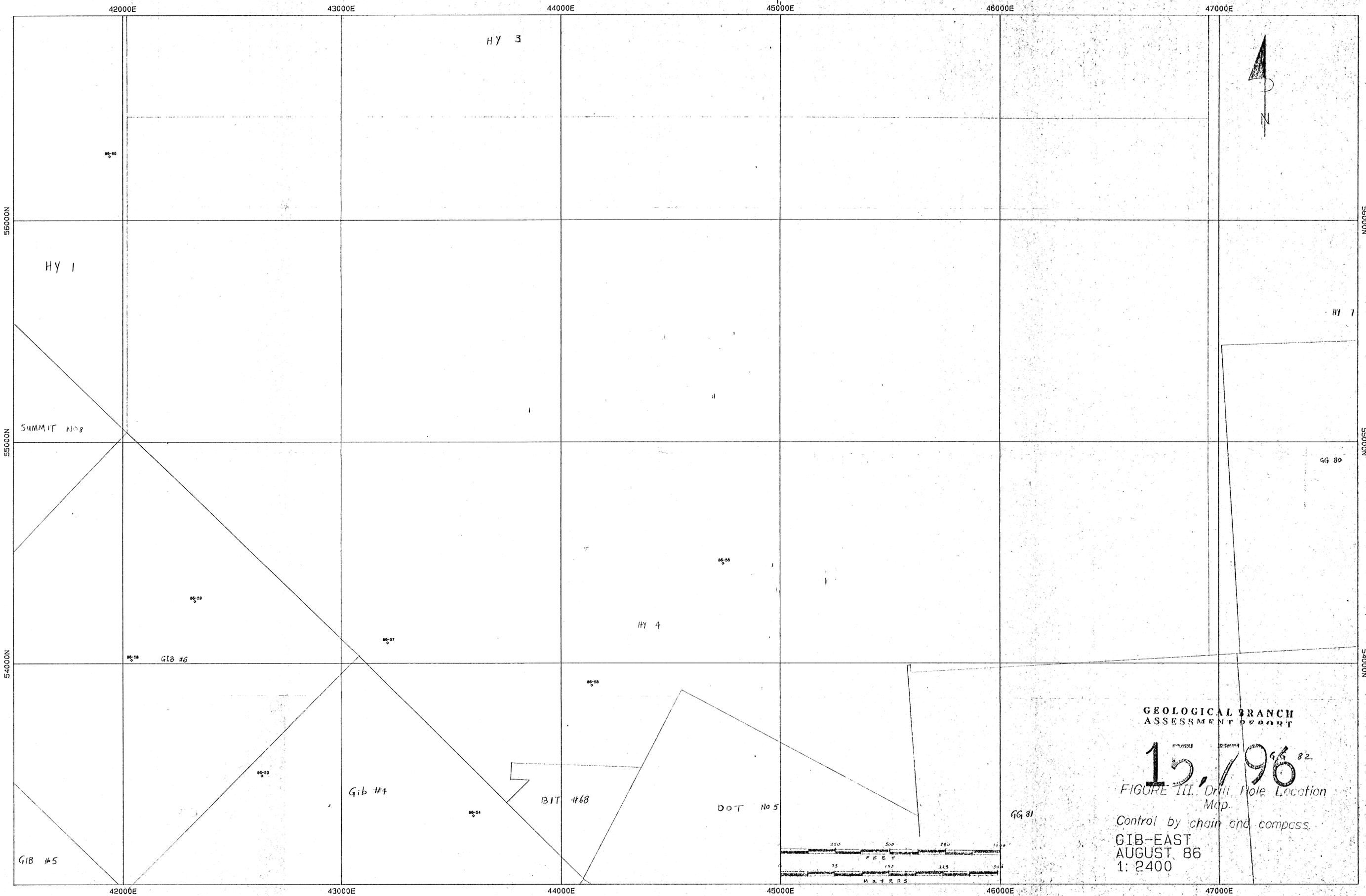


GEOLOGICAL BRANCH
ASSESSMENT REPORT
15,796

FIGURE II.

GREY GROUP
MINERAL CLAIMS
GIBRALTAR MINES LIMITED
18-FEB-87 SCALE=1:24000





GEOLOGICAL BRANCH
ASSESSMENT DEPARTMENT

15,796^{66 82}

FIGURE III. Drill Hole Location Map.

Control by chain and compass.

GIB-EAST
AUGUST, 86
1:2400