

85-302-13702

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,702

DIAMOND DRILL REPORT

ON THE

YELLOW GROUP

Cariboo Mining Division

93 B/8

(Latitude 52 31', Longitude 122 17')

OWNER AND OPERATOR

GIBRALTAR MINES LIMITED

McLEESE LAKE, B.C.

AUTHOR: M. R. Thon

Submitted: April 23, 1985

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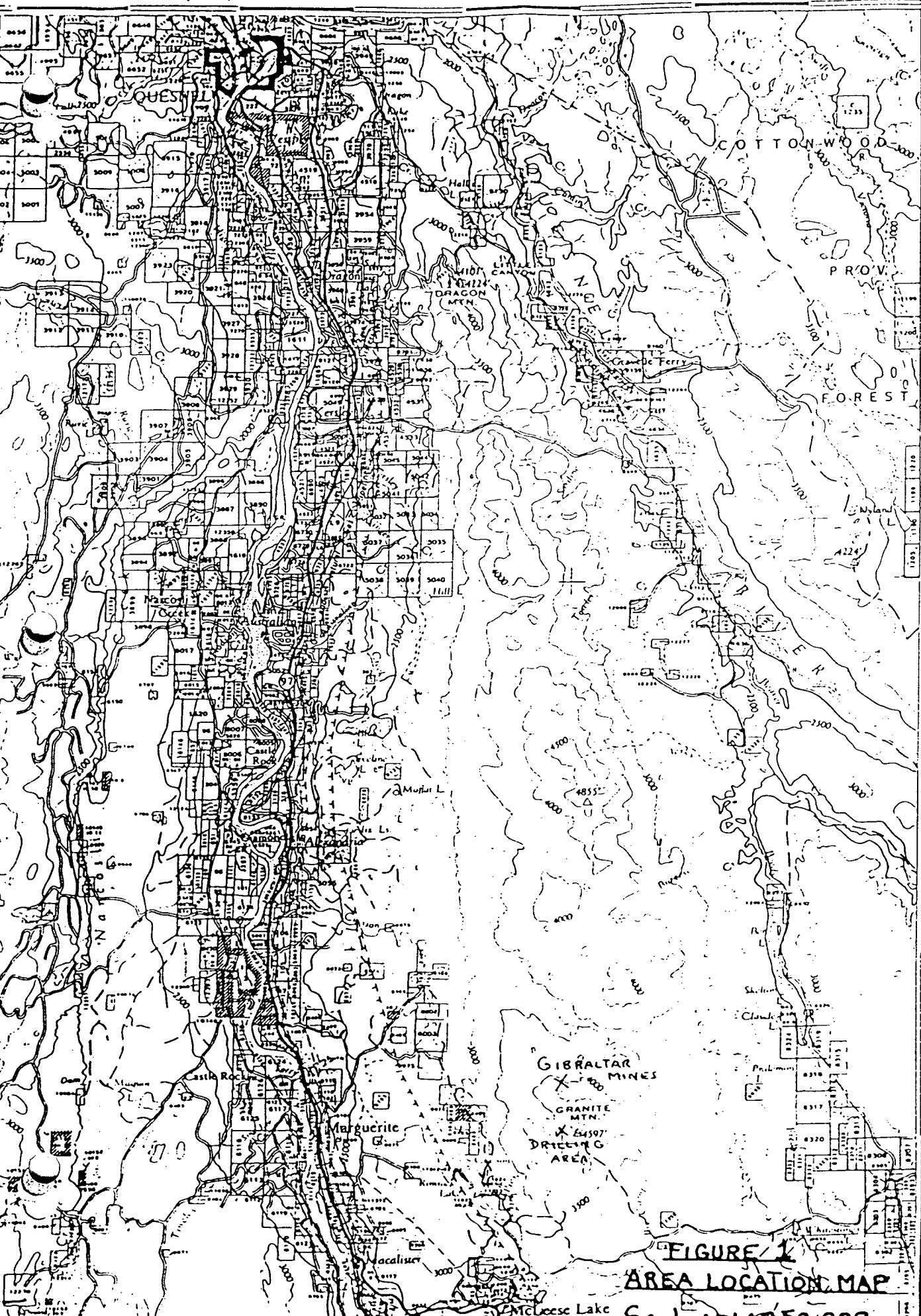
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1.0 INTRODUCTION

The Yellow Mineral Claim Group is part of the Gibraltar Mines Limited permanent property. It is accessed along a mine haul road and lies approximately 1.75 miles (2.8 Km.) from the plant site. The general location is shown in Figure 1.

The 1984 drilling on this group took place along the north edge of the Granite Lake Pit. These areas have previously been tested by Canex in 1969 and 1971, and by Gibraltar Mines in 1979, 1982 and 1984. The 1985 drill locations are shown in Figure 3.

Drilling was carried out by G. & D. Diamond Drilling of 5425 Dallas Drive, Kamloops, B.C. during the period March 26 to March 31, 1985. Four vertical N.Q. wireline diamond drill holes were completed for a total of 800 feet (243.84 m.). Core was not split. The whole core was sent to the assay lab for analysis. The ground core is stored at Gibraltar Mines plant site for a period of one year.



45'

30'

FIGURE 1
AREA LOCATION MAP
 Scale: 1:50,000

2.9 MINERAL CLAIMS

The Yellow Claim Group has mineral leases grouped with mineral claims. Particulars of each claim are listed below. Some of the claims are owned by Cuisson Lake Mines Limited but Gibraltar Mines Limited has full administrative rights over all of these claims. Mineral Claim locations are shown in Figure 2 (in pocket).

G I B R A L T A R M I N E S L I M I T E D
11-JUN-84

C L A I M G R O U P S

YELLOW GROUP MINERAL CLAIMS

NAME	RECORDED DDMMYY	RECORD NUMBER	UNITS	MINERAL LEASE	OPTIONED FROM
BUD #1	230574	71611	1		
BUD #2	230574	71591	1		
BUD #3	230574	71599	1		
BUD #4	230574	71608	1		
CAROL #4FR	120768	46104	1		CLM
CAROL #6FR	120768	46106	1		CLM
CAROL #7FR	120768	46107	1		CLM
EV # 1	230574	71594	1		
EV # 2	230574	71593	1		
EV # 3	090174	71588	1		
EV # 4	230574	71614	1		
FFE #13	160566	35766	1		CLM
FFE #14	160566	35767	1		CLM
FFE #15	160566	35768	1		CLM
FFE #16	160566	35769	1		CLM
FFE #17	160566	35770	1		CLM
FFE #19	160566	35772	1		CLM
FI #2 FR	230574	71601	1		
FI #4 FR	230574	71602	1		
FLO #1 FR	230574	71603	1		
GIB #15FR	030971	64566	1		
GIB 20FR	210672	66782	1		
GJ 20FR	090174	71323	1		CLM
HAS 2	161068	48026	1		CLM
HAS 12	161068	48031	1		CLM
HAS 13	161068	48032	1		CLM
HAS 14	161068	48033	1		CLM
HAS 15	161068	48034	1		CLM
HAS 16	161068	48035	1		CLM
HAS 17	161068	48036	1		CLM
HAS 18	161068	48037	1		CLM
HAS 19	161068	48038	1		CLM
HAS 20	161068	48039	1		CLM
HD # 5	051066	37784	1		CLM
HD # 6	051066	37785	1		CLM
HD # 7	051066	37786	1		CLM
HD # 8	051066	37787	1		CLM
HD # 20	051066	37797	1		CLM
SAP #2 FR	030971	64568	1		CLM
SAP #3 FR	030971	64569	1		CLM
SAP #5 FR	210672	66783	1		CLM
VE 21	280469	50693	1		CLM
VE 22	280469	50694	1		CLM
ZIP 1FR	120276	90133	1		
EST N03 FR	200571	62401	1	3604	M42
LYNNE #3	130766	36699	1	3604	M42
RUM #80 FR	031270	51406	1	3604	M42
VE NO 1	140266	34947	1	3604	M42
VE NO 2	140266	34948	1	3604	M42
VE NO 3	140266	34949	1	3604	M42

C L A I M G R O U P S

YELLOW GROUP MINERAL CLAIMS

NAME	RECORDED DOMMY	RECORD NUMBER	UNITS	MINERAL LEASE	OPTIONED FROM
VE NO 5	140266	34951	1	3604	M42
VE NO 7	140266	34953	1	3604	M42
VE NO10	140266	34955	1	3713	M51
VE NO 4	140266	34950	1	3713	M51
VE NO 6	140266	34952	1	3713	M51
VE NO 8	140266	34954	1	3713	M51
HO #18 FR	051066	37795	1	4139	M58
HO #19	051066	37795	1	4139	M58
LINDA #1	211169	55049	1	4139	M58
LINDA #2	211169	55050	1	4139	M58
LINDA #3	211169	55051	1	4139	M58
LINDA #4	211169	55052	1	4139	M58
SAP #4 FR	030971	64570	1	4139	M58
VE NO15	140266	34961	1	4142	M61
VE NO16	140266	34962	1	4142	M61
VE NO17	140266	34963	1	4142	M61
VE NO18	140266	34964	1	4142	M61
VE NO19	140266	34965	1	4142	M61
VE NO20	140266	34966	1	4142	M61
HAS 4	161068	48028	1	4143	M59
HAS 6	161068	48029	1	4143	M59
SAP #1 FR	030971	64567	1	4140	M60

TOTAL UNITS 72

TOTAL :

3.0 DRILL PROGRAM

3.1 OBJECTIVE.

The purpose of this drill program was to test ore projections in the north wall of the Granite Lake Stage 1 pit. It was felt that mining grades were having too great an influence over the projected grades.

3.2 RESULTS.

The drill hole locations are shown in Figure 3. The locations were surveyed with an E.D.M. AGA survey instrument. Drill logs are included in the pocket of this report. All copper values reported here and in the logs are for total copper. All molybdenum reported is MoS .

All holes intersected a typical "Mine Phase Quartz Diorite". This is a medium grained rock comprised of about 30% dark grey quartz, 20% green chloritized mafics, and 50% light green saussuritized feldspar. "Dark Alteration Zones" mentioned in the drill logs are zones of further alteration in which the epidote content of the saussurite has been re-mobilized out of the dark zones to form clots and veins of epidote near the borders of the dark zones. The feldspar in these dark zones is a grey color and there is often a higher concentration of chlorite and sericite associated with these zones. These dark alteration zones were encountered in all of the drill holes in this drill program along with narrow intersections of quartz-chlorite-sericite shear zones.

Hole 85-01 was drilled from the Stage 1 ramp, cased to 14 feet, and drilled to 200 feet. No leach cap was intersected; oxide occurred to 30 feet and supergene mineralization to 110 feet. The ore zone started at the top and went to 160 feet for a 146 feet thick zone of 0.40% copper and 0.021% MoS . The results of this hole were better than the projected grades. A six feet thick fault was intersected at 174 feet to 180 feet near the base of the ore zone.

Hole 85-02 was drilled from the Stage 1 ramp, cased to 10 feet, and drilled to 202 feet. There was no leach cap or oxide zone and supergene enrichment only occurred down to 20 feet. The entire hole averaged as ore, though there was narrow waste zones. This makes an ore zone 192 feet thick grading 0.25% copper and 0.021% MoS . The ore intersected near the top was lower than expected but the system at the bottom was much higher than the projections. This system is thought to lie sub-parallel to the upper zone. Possible fault zones occurred at 67 feet to 85 feet and 127 to 140 feet and much broken core was encountered. This hole is thought to be very near a major fault system.

Hole 85-03 was also drilled from the Stage 1 ramp, cased to 10 feet and drilled to 201 feet. No leach cap or oxide zone was intersected and supergene enrichment ended at 40 feet. The ore zone extended from the top of the hole to 140 feet for 130 feet of 0.22% copper and 0.012% MoS. These grades again, were much lower than projected. A narrow fault zone was intersected at 112 to 120 feet and much shattered rock was intersected throughout the hole. This hole is about 130 feet from a major vertical fault system which caused a failure along the east wall of the Stage 1 pit.

Hole 85-04 was drilled from a berm on the north wall of the pit. It was cased to 22 feet and drilled to 197 feet. No leach cap, oxide, or supergene surfaces were intersected. Assay results here were very disappointing. 110-feet of ore was intersected from 30 feet to 140 feet with a grade of 0.21% copper and 0.014% MoS. This hole was very close to 1.00% copper material mined in the pit. It will reduce the amount of "super hi-grade" projected in this area. A possible fault was intersected at 20 to 38 feet with zones of broken core continuing to 55 feet.

3.3. INTERPRETATION.

The results of this drill program suggest that we are drilling the edge of our orebody and therefore the grade is not very predictable (ie. "fingering" effect). Between this fact and the faulted nature of the ore here, many drill holes are required to verify ore projections.

4.0 STATEMENT OF EXPENDITURES

March 1985 Diamond Drilling, Yellow Group

(a) Drilling costs

85-01	200'	@ \$13.00/ft.	\$2,600.00
85-02	202'	@ \$13.00/ft.	\$2,626.00
85-03	201'	@ \$13.00/ft.	\$2,613.00
85-04	197'	@ \$13.00/ft.	\$2,561.00

\$10,400.00

(b) Site Preparation

Cat time:

(1) Pushing Roads

Operator for 8 hrs. @ \$15.60/hr \$ 124.80

(2) Developing Sites

Cat for 8 hrs. @ \$123.00/hr \$ 984.00

\$ 1,108.80

(c) Vehicle

4X4 1980 Suburban, March 18, 22,

March 26 to April 1

6 days @ \$20/day

\$ 120.00

(d) Assay Costs

75 Cu - MoS2 assays @ 4.40/assay

330.00 \$ 330.00

(e) Supplies

Core boxes - 40 boxes @ \$5.85/box = \$234.00

Tags, bags, etc. = 25.00

\$259.00 \$ 259.00

(f) Personnel Costs

(1) Core Logging and Supervision

G. Bysouth April 1, 2

16 hrs @ \$31.55 \$ 504.80

(2) Core Logging

M. R. Thon Mar 27 - 29

18 hrs. @ \$22.02 \$ 396.36

(2) Field Work and Sample Preparation

E. Oliver Mar 18 - 8hrs.

Mar 22 - 8hrs.

Mar 25-29 -16hrs.

Apr 1 - 4hrs.

36 hrs @ 19.64 \$ 707.04

\$1,608.20 1,608.20

TOTAL DRILLING COST

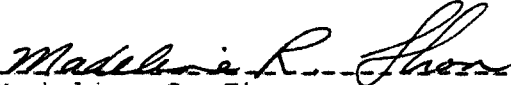
\$13,826.00

5.0 CONCLUSIONS

These results confirm the need for close-spaced drilling and it is recommended that more drilling be done to decrease the drill spacing to about 200' x 200'.

SUBMITTED BY:

GIBRALTAR MINES LIMITED



Madeline R. Thon
Mine Exploration Geologist

mt

APPENDIX I

STATEMENT OF QUALIFICATIONS

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

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



Garry D. Bysouth

APPENDIX I

STATEMENT OF QUALIFICATIONS

I, Madeline R. 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 assisted in the logging of the core and the assessment of the results of this drill program.

Madeline R. Thon

Madeline R. Thon

APPENDIX II

ABBREVIATIONS USED IN DRILL LOGS

cal.....calcite
carb.....carbonate
chl.....chlorite
cp.....chalcopyrite
cren.....crenulated
dissem.....disseminated
ep.....epidote
foln.....foliation
grn.....grained
lim.....limonite
mal.....malachite
mag.....magnetite
py.....pyrite
QSP.....quartz-sericite-py
qtz.....quartz
rx.....rock
ser.....sericite
str.....strong
stkwk.....stockwork
wk.....weak
Wt. Q.D.....White Quartz Diorite
 = Leucocratic Phase

GIBRALTAR MINES LIMITED

PERMANENT PROPERTY AREA

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50000

55000

60000

65000

55000

55000

50000

50000

45000

45000

40000

40000

35000

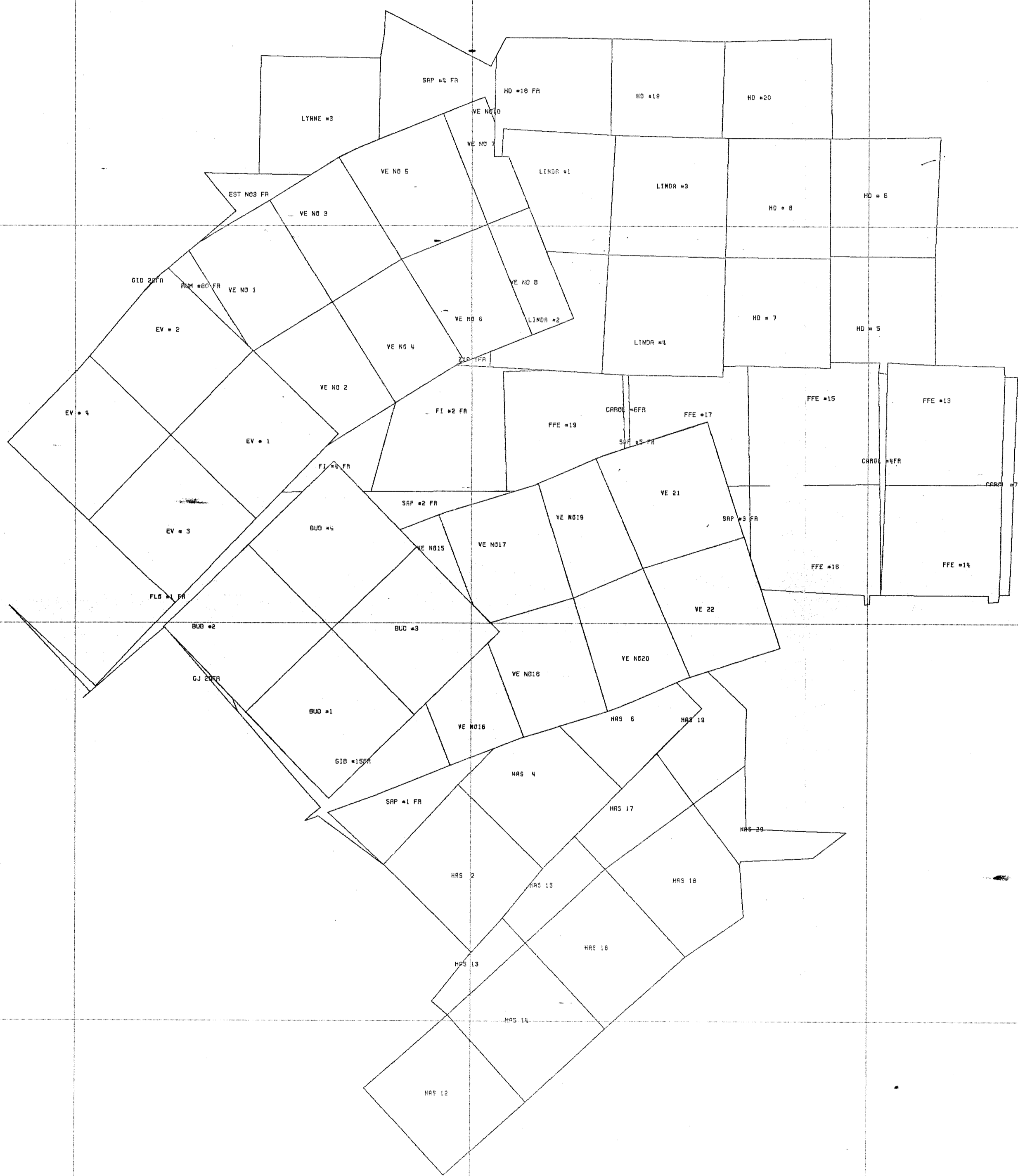
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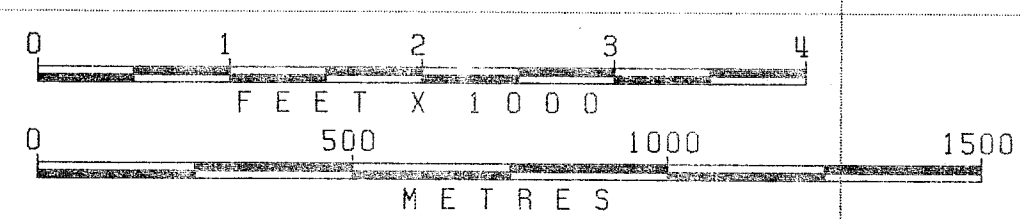


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,702

FIG. . 2.

**YELLOW GROUP
MINERAL CLAIMS
GIBRALTAR MINES LIMITED
10-OCT-84 SCALE=1:12000**



50000

55000

60000

65000

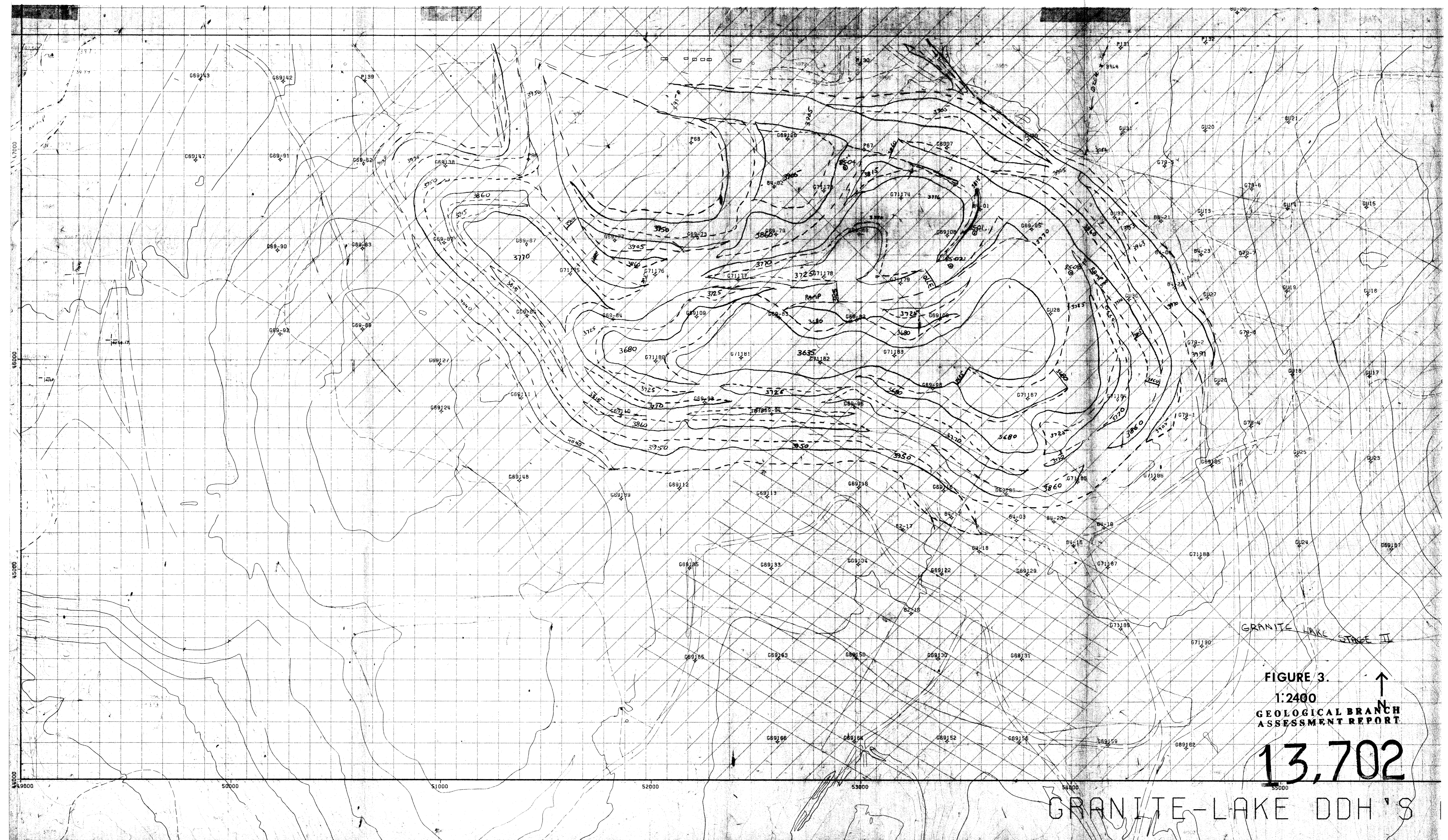


FIGURE 3.
1:2400
GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,702

GRANITE-LAKE DDH'S

13702

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 85-04
SHEET No. 1 of 4

LOCATION <u>GRANITE LAKE</u>	BEARING _____	LATITUDE <u>46°12'64"N</u>	CORE SIZE <u>N.O.-W.</u>	LOGGED BY <u>G.D.B</u>
DATE COLLECTED <u>30 March, 1985</u>	LENGTH <u>197'</u>	DEPARTURE <u>52,924.19 E</u>	SCALE OF LOG <u>1" = 10'</u>	DATE <u>April 2, 1985</u>
DATE COMPLETED <u>31 March, 1985</u>	DIP <u>-90°</u>	ELEVATION <u>3863.98'</u>	REMARKS <u>hole drilled inside Stage 1 Pit</u>	

ROCK TYPES & ALTERATION	L to Core Foliation Alteration Feetings Structures	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	—			Sample Number	% Cu	% Mo	Estimated Grade				
							LIM. ZONE	—										
<u>Casing To</u> <u>22'</u> <u>hole cased</u> <u>on bedrock</u>																		
<u>MINE PHASE</u> <u>QUARTZ</u> <u>DIORITE</u>	60 Mod		1/10 2" 1"	qtz-chl-cp qtz qq		<.5	chalcopryite often shows some weak tarnish	22 26 28	85 50	0	99683	.11	.014			.15		
<u>(22-</u> <u>25% qtz</u> <u>~35% chl.</u> <u>50% Saus.</u> <u>rx is generally</u>	60 Mod		3" 2" 1"	qtz-mag qq qtz		<.5	highly broken core - poss. fault.	34 38	45 85	10	99684	.21	.006			.10		
<u>sheared and</u> <u>altered -ie, shows</u> <u>good ore structure.</u>	60 Mod		40 x 5 35 50 35?	1/2" x 1/10" x 4 qtz-chl-(cp) x 5 qtz-ser-chl-carb-mag-cp zone qtz-chl (cp) qq-bx-hem		<.5		42 47	95 95	23	99685	.29	.006			.20		
	70 WK Mod		35 45 x 2 20? 60 40 x 2 45	1/4 qtz x 2 qq-bx qtz-chl qtz-chl-cp x 2 qtz-chl-carb-ser (cp) zone		<.5		55 1/2	90 95	13	99686	.21	.006			.15		

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Value L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Feather Block	Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu
			70 Wk		30	1/2	qtz-chl.	0	<.5		124	95	27	99693	.07	.006		.08
			60 Mod		60x4	1/8-1/4x4	qtz-chl x 4 qtz-chl-mag qtz (cp) qtz-chl-py qtz-chl-py (cp) x 5 qtz-chl x 2 qtz-chl.	0	1.0		133	85	17	99694	.22	.008		.12
			60- 70 Mod		45+60x2	1/10x3	qtz-ser-py qtz-chl x 3 qtz-ser-py qtz-carb-cp qtz-ser-py qtz qtz-chl x 2	0	1.0		147	95	40	99695	.09	.008		.10
			70 Mod		45x4	1/10-1/8x4	qtz-chl-cp qtz-ser-py qtz-chl x 4 qtz ((cp)) qtz x 2 qtz-mag qtz qtz-chl x 3	0	.5		158	80	23	99696	.12	.020		.08
			70 Str.		60x12	1/8-1/10x12	qtz qtz-chl-(cp) x 12 qtz-mag qtz-chl-py-cp x 5 qtz-chl-mag-py x 2 qtz-py qtz x 3	0	.5		168	70	33	99697	.20	.024		.20
			70 Str		45+60	2"	qtz x 2 qtz (mag) qtz qtz-mag qtz-chl-cp x 10 qtz-(mo)(cp) qtz x 3 qtz-chl-cp x 2	0	<.5	Core sheared and alt'd - some dissen. cp - approaches a qtz-chl-ep zone.	175	95	33	99698	.13	.008		.20

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 85-03
SHEET No. 1 of 4

LOCATION GRANITE LAKE BEARING - LATITUDE 46.416.53 N CORE SIZE N.O.W. LOGGED BY G.D.B.
DATE COLLECTED March 28 1985 LENGTH 201' DEPARTURE 53,999.12 E SCALE OF LOG 1"=10' DATE April 2 1985
DATE COMPLETED March 29 1985 DIP -90° ELEVATION 3742.40 REMARKS hole located in Granite Lake Stage 4 Pit

ROCK TYPES & ALTERATION	L to Core Foliation	GRAPHIC LOG	Veins L to Core Axis	WIDTH of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Footage Block.	Estimated Core Recovery %	R O D	ASSAY RESULTS					
								LEACH CAP	LIM. ZONE				Sample Number	% Cu	% Mo	Estimated Grade		
Casing To 10' but hole collared on bedrk.		10				0												
MINE PHASE QUARTZ DIORITE (10-201')	80 Mod- Wk.	70 x 2 + 15 ?	1/10 x 3 3"		qtz-chl-cp x 2 ep-chl-carb zone	0	.5			10								
20% chl 50% saus plag. ~30% qtz.	80 Wk- Mod	30 50 60 20	1/10 1/10 1/8		qtz-chl-py-cp qtz-chl-cp qtz-cp-cc (vug) qtz-py	0	<.5			17	65	0	99664	.21	.010		.18	
	80 Wk- Mod	20 + 10 10 x 2 80 70 45	1/20 x 2 hlc x 2 2" 1/2 1/2		qtz-chl-cp x 2 qtz-chl-cpx qtz-chl (cp) qtz-chl (cp) qtz-chl-cp	0	<.5			27	80	17	99665	.30	.010		.25	
	20- 80 Str- Mod	10 10-20 45 ?	1/6 2 1/2" 1/2 1"		qtz (Mo) qtz-ser-carb (cp) cc zone qtz-chl-ep (vug) qtz	0	<.5			37	85	17	99666	.17	.010		.20	
	50 Mod	5 45 40 x 2 40	1/4 1/8 1/10 x 2 1/8		qtz-chl-cp qtz-chl-cp qtz-chl ((cp)) x 2 qtz-chl (cp)	0	<.5			42	80	20	99667	.24	.020		.15	

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG Foliation Alteration	Value L to Core Alt	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Foliation Dip	Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu
			70 Mod- wk	15+10 3 20 70	1/10 x 2 1/20 1/10 1"		qtz-chl-cp-bo x 2 qtz-chl-cp-bo qtz (cp) qtz-chl-cp	0 10 20 30 40 50 60 70 80 90	<.5		52	85	3	99668	.20	.012	.18	
			70 wk	70x3 45 45 70 60 20	1/4+1/4+1" 1/2 1/10 1" 1/2 1/10		qtz-chl-cp x 3 qtz (cp) qtz-cp qtz-chl-cp qtz-chl-cp qtz-chl-cp x 3 qtz-chl-cp x 3	0 10 20 30 40 50 60 70 80 90	2.5		65	85	37	99669	.35	.012	.35	
			80 wk	70+70x2 70+80+45	1+1/2x2 1/2+1"+1/10		qtz-chl-cp x 3 qtz-chl-cp x 3	0 10 20 30 40 50 60 70 80 90	<.5		73	90	27	99670	.30	.022	.20	
			80 wk	70x3 80x4 45 70x2 45 45+60 5 45x3	1/10 x 2 1/10 x 4 1/10 1/2+1/10 3" 1/10+1/8 1" 1/10x3		qtz-chl (cp) x 3 qtz-chl (cp) x 4 qtz-chl-cp qtz-chl-cp x 2 chl-cp-zone qtz-chl (cp) x 2 cp qtz-chl-cp x 3	0 10 20 30 40 50 60 70 80 90	<.5		79	90	10	99671	.17	.012	.18	
			80 wk	1 5 60 60 30+50	24" 1/4 24" 3" 1/8 x 2		qq-bx carb x 2 qtz-ser (cp) zone (+carb) qtz-py (Mo) qtz x 2	0 10 20 30 40 50 60 70 80 90	.5		86	80	10	99671	.17	.012	.18	
			70 Mod	45 80 23 20 3x3 4x3 45	2" 1/4 1/2 1/10 1/10 x 2 1/8+1/10 x 2 1/8		qq-hem qtz-chl-mag qtz-chl-cp qtz-chl-cp qq-hem x 3 qtz-chl x 3 qtz-chl-cp	0 10 20 30 40 50 60 70 80 90	<.5		92 95 1/2	100	20	99672	.07	.010	.12	
			70 Mod	60x3 50+5 45	1/16 x 3 1/20 x 2 1/4		hem x 3 hem-carb x 2 qtz	0 10 20 30 40 50 60 70 80 90	2.5		105 95	90	27	99673	.09	.012	.10	

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Veins L to Core Alt	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS				
										Leach Cap	LIM. ZONE			SUPERGENE	REMARKS	Footage Direct	Sample Number	% Cu
			70 Str.	120	50+45 45	1/10 x 2 30"	qtz-chl-carb-cp x 2 qq-bx-hem	0 10 20 30 40 50 60 70 80 90	<.5		111 116 118 1/2	80 95	3	99674	.25	.016		.12
			70 Wk- Mod	130	45x3+50 25+30 45x3 50 20-50x6	1/10x3+1/8 1/10x2 1/16x3 1/10 1/20x6	qtz x 4 qtz-chl-carb-cp x 2 hem x 3 qtz-chl-py Carb x 6	0 10 20 30 40 50 60 70 80 90	<.5		124 1/2 127 1/2	85 50	17	99675	.17	.008		.10
			70 Wk- Mod	140	30+40 60 30x2 30	6" x 2 qtz 1/10 x 2 1"	qq x 2 carb x 2 qtz-chl-mag qtz	0 10 20 30 40 50 60 70 80 90	<.5		132 137	85 80	7	99676	.23	.006		.08
			80 Mod- Str.	150	80 80 70 35-45x7	1/2 4' 1/2 1/10-1/8x7	qtz qtz-ser-carb(chl) zone (poss. alt'd Q.P.) qtz (Wb) qtz-chl(ep) x 7	0 10 20 30 40 50 60 70 80 90	<.5		143	85 80	33	99677	.13	.044		.14
			80 Wk	160	5+45+40x3 45+40 40 35x3 20x2 45+30	1/8-1/10x5 1/8x2 3/4 1/8x3 1/8x2 1/20x2	qtz-chl(ep) x 5 qtz-chl(ep) x 2 qtz-chl-mag qtz-chl(cpl) x 3 qtz x 2 qtz-chl-sp x 2	0 10 20 30 40 50 60 70 80 90	<.5		151 156 1/2	90	27	99678	.08	.002		.15
			80 Wk.	170	70 10 ? 50x2 20 40+60 30 20	1/4 1/10 12" 1/10+1/4 1/8 1/8+1/10 1/4 1/4	qtz-chl(vug qtz-chl)(cp) leucocratic zone qtz-chl(ep) x 2 qtz-chl(p) qtz x 2 qtz qtz-chl(ep)	0 10 20 30 40 50 60 70 80 90	<.5		162 166 1/2	95 90	13	99679	.08	.006		.12

13702

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 25-02
SHEET No. 1 of 4

LOCATION <u>N.W. 11 Gulk Pt on Ramp</u>	BEARING <u>-</u>	LATITUDE <u>46, 447.99N</u>	CORE SIZE <u>NQ. Wireline</u>	LOGGED BY <u>MRT</u>
DATE COLLARED <u>27 March '85</u>	LENGTH <u>202'</u>	DEPARTURE <u>53, 423.07E</u>	SCALE OF LOG <u>1" = 10'</u>	DATE <u>28 March '85</u>
DATE COMPLETED <u>28 March '85</u>	DIP <u>-90°</u>	ELEVATION <u>3775.81'</u>	REMARKS _____	

ROCK TYPES & ALTERATION	L to Core Foliation	GRAPHIC LOG Foliation Alteration Footage Structures	Veins 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				Sample Number	% Cu	% Mo	Estimated Grade			
10-26' Sauc. Alt'd Mine Phase Q.D. of many narrow zones & veins of chloritic material mineralization.	45° Mid	10 6' x 3 60' 30' 30' 6' 30 x 2 30 x 2 150'	1/20 x 3 1/4 1/20 1/4 1/20 1/2 x 2 1/8 x 2 1		gtz-dl - cp gtz-dl - cp gtz-chl - cp gtz-chl - cp gtz-chl - cp gtz-chl - cp gtz-chl - cp gtz-chl - cp	0 10 20 30 40 50 60 70 80 90													
26-40' Highly altered, fine gr. rock rich in gtz - abundant lep blotch & veins.	60° Mid	30 60' 60' 30' 130' 10 x 2 30 x 40' 30 x 2 30' 60' 50 x 3 50 x 2 45 x 3 130'	1/8 2 1 1/2 1/6 1/16 x 2 1/16 x 2 1/16 1/8 1/20 x 3 1/8 + 1/20 1/8 x 3 1/16		gtz-dl - cp gtz-chl - cp gtz-dl - ser - LCP gtz-dl - ser - LCP gtz-vn - mag - chl - ep - cp gtz-ser - chl - cp gtz-chl - py - cp x 2 gtz-ser - chl - cp - (mod) x 2 gtz-chl - cp x 2 gtz-chl - cp - LCP gtz-dl - cp gtz-chl - cp x 3 gtz-ser - chl - cp x 2 gtz-dl - cp x 3 gtz-dl - cp - vug.	0 10 20 30 40 50 60 70 80 90	21%	No limonite zone - only minor tarnishing of sulphides - gtz has bluish tinge - mo?	16 21 1/2 27	75% 87% 95%	20% 40%	99645 99646	.31 .036 .27 .016			.28% .26%			
	60° Mod to Str.	40 30 25 45 60' 40' 60'	1/8 1/16 1/20 1/16 1/20 1/20 1/20		gtz-chl - cp gtz-dl - cp gtz-dl - cp gtz-chl - LCP gtz-vn - chl - ep - mo gtz-dl - cp gtz-chl - cp	0 10 20 30 40 50 60 70 80 90	41%		32 1/2 37	80% 93%	30% 6%	99647 99648	.27 .022 .13 .014			.21% .16%			

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG Foliation Alteration Footage Structure	Value L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Footage Diag.	Estimated Core Recovery %	R O D	ASSAY RESULTS			
										LEACH CAP	LIM. ZONE	SUPERGENE				REMARKS	Sample Number	% Cu	% Mo
112-140'	OK Alt Zone? - Rock is rich in chl + carbonate	NP	120	50	1/20		gtz-chl-carb-cp-cc-vuggy	0	4%		113 1/2	89%	12%	99655	.22	.020	.28%		
				30	1/20		gtz-chl-cp-cc	10											
				30	1/8		gtz-vn-dl-cp7	20											
				60	1/8		gtz-sa-dol-carb-cp-cc	30											
				160	1/2		gtz-vn-chl-cp-mo	40											
				70	1/8		gtz-chl-cp	50											
				120	1/20		gtz-chl-cp-py	60											
				45	1/2		gtz-chl-cp-mo	70											
				50	3		gtz-vn-chl-sen-carb-mo-cp	80											
				60x2	1/4x2		gtz-chl-carb-cpx2	90											
				70	1/2		gg	100											
				120	1/20		gtz-chl-py	10											
				130	1/16		gtz-chl-cp	20											
				140	1/20		gtz-chl-cp-cc	30											
				150	1/20		gtz-chl-carb-ep-cp	40											
				160	1/8		gtz-chl-cp-cp7	50											
				170	1/20		gtz-chl-cp-cc	60											
				180	1/20		gtz-chl-carb-ep-cp	70											
				190	1/4		gtz-chl-ep-cp-cpx7-cc0?	80											
				200	1/4		gtz-chl-cp-cp7	90											
				210	1/4		gtz-chl-carb-mag	100											
				220	1/4		carb-hem x2	10											
				230	1/8		gtz-chl-carb	20											
				240	1/16		gtz-chl-carb-ep	30											
				250	1		gg	40											
				260	3		gtz: chl-carb	50											
				270	1/16		gtz: chl-carb	60											
				280	1/16		gtz: chl-carb	70											
				290	1/16		gtz: chl-carb	80											
				300	1/16		chl-carb	90											
				310	1/8		gtz-chl-carb	100											
				320	1/2		gtz-chl-ep	10											
				330	1/16		gtz-dl-carb	20											
				340	1/16		gtz-dl-carb	30											
				350	1/4		gtz-dl-carb	40											
				360	2		gtz-chl-carb	50											
				370	2		gtz-chl-carb	60											
				380	1/2		carb-hem-gg x10	70											
				390	1/2		chl-carb-hem x2	80											
				400	3		gtz-chl-carb-cp	90											
				410	3		gtz-dl-carb-cp	100											
				420	5		gtz-dl-carb-cp	10											
				430	1/8		gtz-carb-chl	20											
				440	1/8		chl-gtz-carb-ep-cp7	30											
				450	1/2		chl-gtz-ep-cp7	40											
				460	1/2			50											
				470	1/2			60											
				480	1/2			70											
				490	1/2			80											
				500	1/2			90											

- 8" of fine gr. chl. rich
ex. by minor ep strings

ROCK TYPES & ALTERATION		L to Core Foliation	GRAPHIC LOG Alteration Footage Structure	Value L to Core Axis	Width of Vena	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENTLY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Footage Dipsect.	Estimated Core Recovery %	R O D	ASSAY RESULTS			Estimated Grade
									LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	
		20° -70° Str. to Mod.	50 40° 80° 50° 20° 30° 60° 30° X3 75°		1/16 1/2 1/2 1/2 + 1/8 + 1/4 1/8	qtz-chl-cp- chl-mo. Qtz Vn. chl-mag-cp-carb qtz-carb-gg-hem Qtz-chl-py-cp-cmo qtz-chl-gg Qtz-chl-ser-cp-py-poss Qtz-chl-mag-hem?	0 10 20 30 40 50 60 70 80 90	1.3%		51 54 58	50% 60%	9%	99630	.49	.012	27% Good N.S.	
		60° Mod.	70 70° 60° 80° 30° 70° X2 116° 78° X5		1/20 1/8 1/16 1/2 + 1/16 1/8 X5	Qtz-carb-hem. Qtz-chl-ser-cp Qtz Vn. chl-mag-cp-vaggy -mo Qtz-chl-cp-bornite? Qtz Vn. chl-mag-cp-xz Qtz Vn. chl-ep-carb Qtz-chl-ser-cp	0 10 20 30 40 50 60 70 80 90	1%		65 69	60% 90%	8%	99631	.34	.016	25%	
	Less foliated	70° WK	80 30° 60° 160° 110° 50° 60° X2		1/2 3/4 1/2 1/20 1/8 1/8	Qtz-chl-ser-cp Qtz-chl-ser-py-cp Qtz-chl-ser-cp-cc-vaggy Qtz-chl-cp Qtz-ser-chl-carb-gg-py Qtz-chl-py-cp-carb-hem	0 10 20 30 40 50 60 70 80 90	1%		74 1/2	88%	12%	99632	.42	.016	22%	
		70° WK	90 45° 140° 50° X2 140° 160° 130° 130°		1/8 1/8 hem X2 1/8 1/2 1/8 1/8	Qtz-chl-ser-cp-cc-bp Qtz-chl-carb-gg-hem Qtz-chl-cp Qtz-ep-chl-carb-py mag-Qtz-ser-ep-hem Qtz-chl-ser-cp-cc Qtz-chl-Lpy	0 10 20 30 40 50 60 70 80 90	1%	-bo? - could be tarnish	81	81%	45%	99633	.29	.016	18%	
	91-104 Dark Alt m Zone grades to Qtz-chl-Carb Schist.	20-70° WK to Str.	100 125° 45° 110° 30° X2 25° 30° X2 90°		1/4 5 1/16 1/16 X2 1/16 1/4 X2	Qtz-ser-chl-cp Qtz Vn. chl-Lser-Lmag-cp Qtz-carb-chl-cp Qtz-chl-mag-cp-xz Qtz-chl-ser-mag-cp Qtz-ser-chl-carb-cpxz Qtz-chl-mag-cpxz-carb	0 10 20 30 40 50 60 70 80 90	1%	-fewer mineralized veins.	92 1/2 96	94% 78%	20%	99634	.51	.048	29%	
	104-110 Saul. Dr. P. w/mix dk alt n zones & vns		110 50° X3 50° 30° 30° 70° 60° X2 125° 40° + 70°		1/20 X3 1/16 1/2 1/4 2" 1/16 X2 1/2	Qtz-chl-cp Qtz-chl-ep-cc-vaggy Qtz-carb-chl-Lep Qtz-chl-carb-Lmo-Lcp gg-calc-ens. Qtz-chl-cp-xz Qtz-chl-carb-Lmag-Lcp Qtz-chl-cpxz	0 10 20 30 40 50 60 70 80 90	1%		105	93%	20%	99635	.23	.010	22%	

ROCK TYPES & ALTERATION			L to Core Refracton	GRAPHIC LOG	Yield L to Core Alt	Width of Voids	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
110-114 DK Alt Zone.	60°		60°	110	165	1/8	gtz-chl-ser-mag-ep	0											
114-116 Sauc. Alt'd QD. w/ narrow zones of DK alt.	Mod		Mod	110	160	1/8	gtz-chl-ser-mag-ep	10											
				110	130	1/8	gtz-chl-ser-mag-ep	20											
				110	140	1/8	gtz-chl-ser-mag-ep	30											
				110	145°	3"	gtz-vn - chl - ser - mag	40											
				110	145°	3/8"	gtz-chl (no sulphides)	50											
				120	145°	1/2"	gtz-braken core - calcareous	60											
				120	145°	2"	gtz-braken core - calcareous	70											
				120	130 x 2	1/20 x 2	gtz-chl-ser-ep x 2	80											
				120	130°	1/16	gtz-chl-ser-ep	90											
				120	115°	1/8	gtz-chl-ser-ep	100											
				120	15°	1/2	gtz-carb-ep-chl	110											
				120	15°	1/2	carbagg - broken core	120											
				120	60°	1	gtz-carb-chl	130											
				120	85°	1/8	gtz-chl-carb-ep	140											
				120	30 x 2	1/8 x 2	gtz-chl-ep x 2	150											
				120	130°	2"	gtz-vn - chl - ser - carb	160											
				120	30° 120°	1/8 x 2	gtz-chl-ep - cp - x 2	170											
				120	130°	1/4	gtz-chl-ep - cp - x 2	180											
				120	110°	1/8	gtz-chl-ep - cp - x 2	190											
				120	110°	1/2	carb-horn	200											
				120	145°	1/8	gtz-chl-ep	210											
				120	145°	1/8	gtz-chl-carb	220											
				120	150°	1/4	gtz-chl-ser-ep - m.	230											
				120	170°	1/4	gtz-carb	240											
				120	170°	1/8	gtz-chl-ser-ep	250											
				120	155°	1/4	gtz-chl-ser-ep	260											
				120	170°	1/8	gtz-chl-ser-ep	270											
				120	160 x 3	1/16 x 3	gtz-ser-chl-ep	280											
				120	130°	1/16	gtz-ser-chl-ep	290											
				120	130°	1/8	gtz-ser-chl-ep	300											
				120	130°	1/8	gtz-ser-chl-ep	310											
				120	130°	1/8	gtz-ser-chl-ep	320											
				120	130°	1/8	gtz-ser-chl-ep	330											
				120	130°	1/8	gtz-ser-chl-ep	340											
				120	130°	1/8	gtz-ser-chl-ep	350											
				120	130°	1/8	gtz-ser-chl-ep	360											
				120	130°	1/8	gtz-ser-chl-ep	370											
				120	130°	1/8	gtz-ser-chl-ep	380											
				120	130°	1/8	gtz-ser-chl-ep	390											
				120	130°	1/8	gtz-ser-chl-ep	400											
				120	130°	1/8	gtz-ser-chl-ep	410											
				120	130°	1/8	gtz-ser-chl-ep	420											
				120	130°	1/8	gtz-ser-chl-ep	430											
				120	130°	1/8	gtz-ser-chl-ep	440											
				120	130°	1/8	gtz-ser-chl-ep	450											
				120	130°	1/8	gtz-ser-chl-ep	460											
				120	130°	1/8	gtz-ser-chl-ep	470											
				120	130°	1/8	gtz-ser-chl-ep	480											
				120	130°	1/8	gtz-ser-chl-ep	490											
				120	130°	1/8	gtz-ser-chl-ep	500											
				120	130°	1/8	gtz-ser-chl-ep	510											
				120	130°	1/8	gtz-ser-chl-ep	520											
				120	130°	1/8	gtz-ser-chl-ep	530											
				120	130°	1/8	gtz-ser-chl-ep	540											
				120	130°	1/8	gtz-ser-chl-ep	550											
				120	130°	1/8	gtz-ser-chl-ep	560											
				120	130°	1/8	gtz-ser-chl-ep	570											
				120	130°	1/8	gtz-ser-chl-ep	580											
				120	130°	1/8	gtz-ser-chl-ep	590											
				120	130°	1/8	gtz-ser-chl-ep	600											
				120	130°	1/8	gtz-ser-chl-ep	610											
				120	130°	1/8	gtz-ser-chl-ep	620											
				120	130°	1/8	gtz-ser-chl-ep	630											
				120	130°	1/8	gtz-ser-chl-ep	640											
				120	130°	1/8	gtz-ser-chl-ep	650											
				120	130°	1/8	gtz-ser-chl-ep	660											
				120	130°	1/8	gtz-ser-chl-ep	670											
				120	130°	1/8	gtz-ser-chl-ep	680											
				120	130°	1/8	gtz-ser-chl-ep	690											
				120	130°	1/8	gtz-ser-chl-ep	700											
				120	130°	1/8	gtz-ser-chl-ep	710											
				120	130°	1/8	gtz-ser-chl-ep	720											
				120	130°	1/8	gtz-ser-chl-ep	730											
				120	130°	1/8	gtz-ser-chl-ep	740											
				120	130°	1/8	gtz-ser-chl-ep	750											
				120	130°	1/8	gtz-ser-chl-ep	760											
				120	130°	1/8	gtz-ser-chl-ep	770											
				120	130°	1/8	gtz-ser-chl-ep	780											
				120	130°	1/8	gtz-ser-chl-ep	790											
				120	130°	1/8	gtz-ser-chl-ep	800											
				120	130°	1/8	gtz-ser-chl-ep	810											
				120	130°	1/8	gtz-ser-chl-ep	820											
				120	130°	1/8	gtz-ser-chl-ep	830											
				120	130°	1/8	gtz-ser-chl-ep	840											
				120	130°	1/8	gtz-ser-chl-ep	850											
				120	130°	1/8	gtz-ser-chl-ep	860											
				120	130°	1/8	gtz-ser-chl-ep	870											
				120	130°	1/8	gtz-ser-chl-ep	880											
				120	130°	1/8	gtz-ser-chl-ep</												

ROCK TYPES & ALTERATION			L to Core Foliation	GRAPHIC LOG	Y to Core Altitude	WIDTH of VIA	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Estimated Core Recovery %	R O D	ASSAY RESULTS					
										LEACH CAP	LIM. ZONE			SUPERGENE	Feet	Blacks	Sample Number	% Cu	% Mo
174-180'	Fault Zone - Broken core, gg - poor recovery	NP.			20 50 20x2 30 38	1/2 1/4 1/8 x 2 1/8 1/10	qtz-ep qtz-chl-Lcp qtz-chl-Lcp x 2 qtz-chl-mag qtz-chl-cp	0 10 20 30 40 50 60 70 80 90	<1%			45%	10%	99642	.08	.010		.8%	
180'-200'	Sauc. Alt'd QD. grades into a v.l.t., almost leucocratic zone 183-186'. It also contains narrow zones of dk chloritic rock	60- Mod			30 60 45 60 55 60	1/16 1 1/8 1/8 1/20 1/8	qtz-chl. qtz-dl-cp-mag-Lcp qtz-chl-cp-mag-Lcp qtz-Lcp qtz-chl-cp-py qtz-chl-mag-Lcp	0 10 20 30 40 50 60 70 80 90	<1%			80%	37%	99643	.09	.012		.09%	
		60- 80 Str + w.k.			140 60 70 30x2 70x2 70	hlc 3" 1/16 1/8 x 2 hlc x 2 1/20	qtz-chl-cp-py qtz-chl-mag-Lcp qtz-chl qtz-dl-Lcp x 2 qtz-chl-cp-py x 2 qtz-chl-cp Broken core & gg	0 10 20 30 40 50 60 70 80 90	<1%	Badly broken core		60%	24%	99644	.06	.010		.07%	
					200		E.O.H. @ 200'	0 10 20 30 40 50 60 70 80 90				90%							
										M.R. Shan									