

84-964-13123

DIAMOND DRILL REPORT
ON THE
RED GROUP

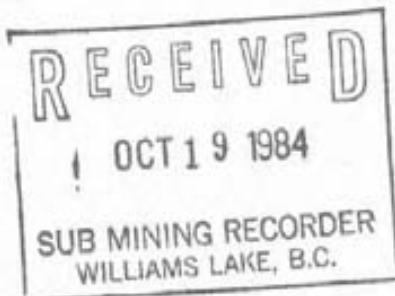
Cariboo Mining Division
93 B. 8, 9

(Latitude 52 30', Longitude 122 17')

OWNER AND OPERATOR
GIBRALTAR MINES LIMITED

McLEESE LAKE, B.C.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**



13,123

AUTHOR: M. R. Thon

Submitted: October 16, 1984

Part 2 of 2

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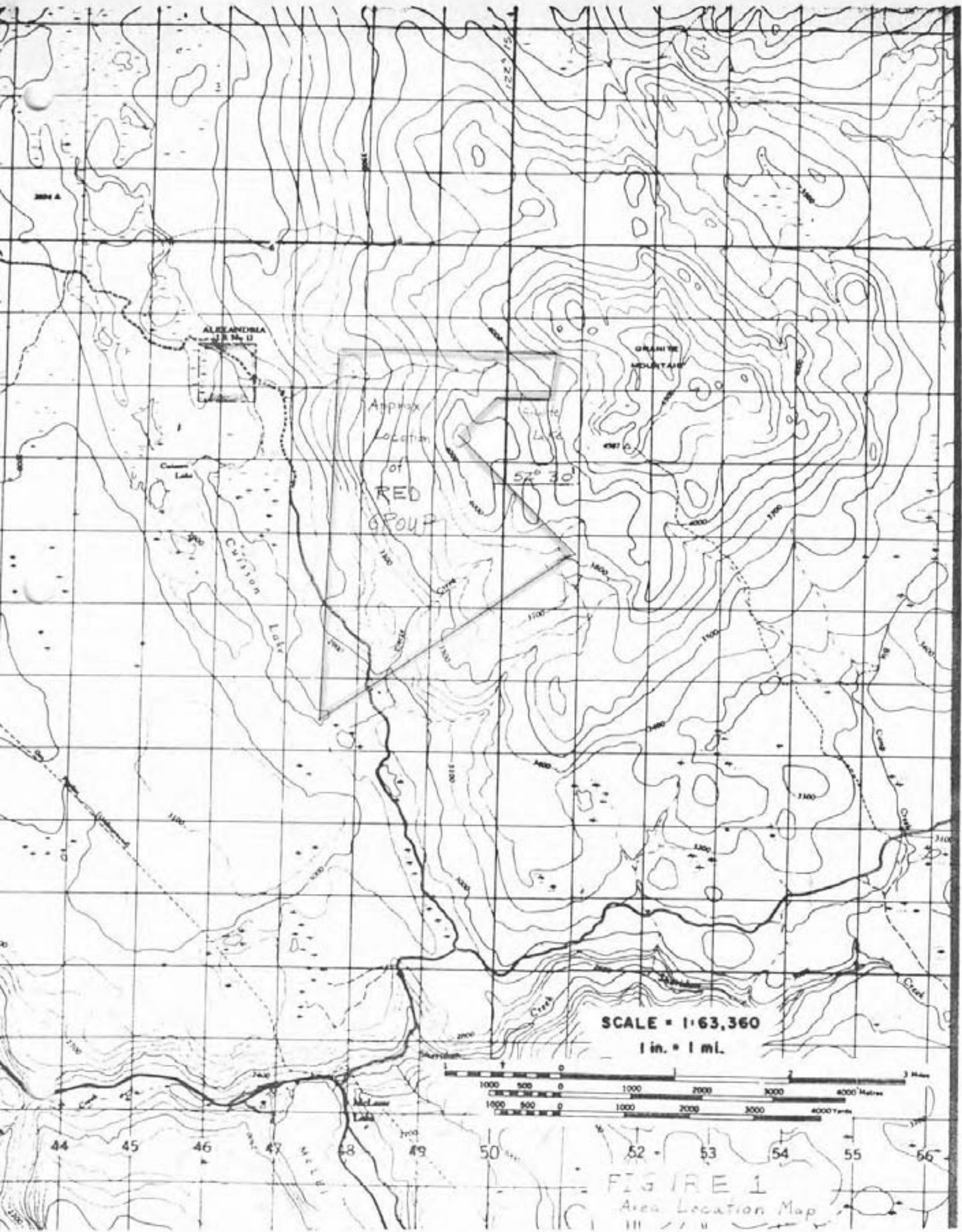
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1.0 INTRODUCTION

The Red Mineral Claim Group is part of the Gibraltar Mines Limited permanent property. It lies approximately 1.25 miles (2.01 km) south of the Gibraltar Mines concentrator and touches the north end of Granite Lake. The southern end of the group covers the southern tip of Cuisson Lake. Elevations range from 2900 feet at Cuisson Lake to 4100 feet near Granite Mountain. Access is via the mine haul road and 4-wheel drive roads from the east end of Pollyanna Pit. The location of the claim group is shown in Figure 1.

This group encompasses the southern part of the Pollyanna orebody, the western part of the Granite Lake orebody, and the southeast corner of the Gibraltar East orebody. A complex history culminates in the combination of the Pollyanna and Gibraltar claims under a joint venture of Canex Aerial Exploration Limited and Duval Corporation in 1967. For a more detailed look at the early history of the area see the "Diamond Drill Report on the Red Group" submitted for assessment on May 20, 1981 by M. R. Schaumberger, Gibraltar Mines Limited. A major drill program carried out by Canex in 1969 outlined the three orebodies mentioned above and clearing of a mill site began in 1970. Drilling continued through 1970 and 1971 to firm up the ore reserves and in 1971 the claims were transferred to Gibraltar Mines Limited, presently a subsidiary of Placer Development.

The area covered by the present drill program lies about 2,000 feet east of the Pollyanna Pit. Drilling was carried out by G. & D. Diamond Drilling of 5425 Dallas Drive, Kamloops, B.C. during the period May 13 to May 16, 1984. Two vertical N.Q. wireline diamond drill holes were completed for a total of 500 feet (152.40 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.



Approx
Location
of
**RED
GROUP**

57° 30'

SCALE = 1:63,360
1 in. = 1 mi.

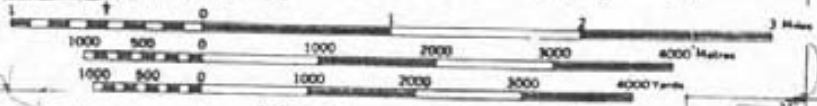


FIGURE 1
Area Location Map

3.0 DRILL PROGRAM

3.1 OBJECTIVE.

The purpose of this drill program was to fill in drill spacing between holes drilled by Cenex Aerial in 1969, and holes drilled by Gibraltar Mines Limited in 1980 and 1981. It was hoped that they would confirm the existence of a small orebody to the east of the "East Boundary Fault."

3.2 RESULTS.

The drill hole locations are shown in Figure 3. The locations were surveyed with an S.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 MoS₂.

Both holes intersected a "Mine Phase Quartz Diorite" consisting of 30% to 35% dark grey quartz, 20% to 25% green chloritized mafics, and 50% to 55% light green saussuritized feldspar. In places, remobilization of epidote has left zones of "Dark Alteration". The feldspars here are a grey color and there is often a higher concentration of sericite and chlorite. Epidote commonly forms clots and veinlets near the borders of these zones. This area is close to the Granite Mountain Phase, a more siliceous phase of the pluton, and some of the rock intersected in these holes appears to be a "transitional" rock type between Mine Phase and Granite Mountain Phase. Zones of "Leucocratic Phase" or "White Quartz Diorite" described in the logs are a high quartz, low chlorite rock thought to be a late phase acid differentiate of the pluton. They display seriate to porphyritic texture and sometimes contain sericitic shear zones.

Hole 84-05 was collared at 4041.14 feet elevation, cased to 24 feet, and drilled to 250 feet. A limonite zone extended to 35 feet. Ore grade mineralization was encountered from 24 to 210 feet giving 186 feet of 0.32% copper, 0.022% MoS₂. Several small fault zones were intersected throughout the hole and a major one was intersected from 235 feet to the end of the hole.

Hole 84-06 was collared at 4058.42 feet elevation, cased to 20 feet, and drilled to 250 feet. A weak supergene zone was intersected to 75 feet. The entire hole assayed as ore giving 230 feet of 0.35% copper and 0.018% MoS₂. A fault zone was encountered from 79 to 87 feet.

3.3. INTERPRETATION.

This drill program confirmed the existence of an ore zone projected from previous drilling. Fault material encountered in these holes is believed to be part of northerly striking, steeply dipping faults running sub-parallel to the East Boundary Fault. They cause only slight off-sets in the ore.

4.0 STATEMENT OF EXPENDITURES

May 1984 Diamond Drilling, Red Group

(a) Drilling costs

84-05	250'	@ \$13.50/ft.	\$3,375.00	
84-06	250'	@ \$13.50/ft.	\$3,375.00	
			<u>6,750.00</u>	\$6,750.00

(b) Vehicle

4X4 1980 Suburban, May 12, 15-16				
3 days @ \$20/day				\$ 60.00

(c) Assay Costs

46 Cu - MoS2 assays @ 4.40/assay				\$ 202.40
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(d) Supplies

Core boxes,				
25 boxes @ \$6/box =	\$150.00			
Tags, bags, etc. =	15.00			
	<u>165.00</u>			\$ 165.00

(e) Personnel Costs

(1) Core Logging and Supervision				
G. Bysouth				
May 15-16 12hrs. @ \$31.55/hr.			\$378.60	

(2) Core Logging and Interpretation				
*M. R. Thon				
May 17-22 14hrs.				
Oct 16 8hrs.				
	<u>22hrs.</u>	@ \$22.02/hr.	\$484.44	

(3) Field Work and Sample Preparation				
E. Oliver				
May 12 4hrs.				
May 15-16 12hrs.				
	<u>16hrs.</u>	@ \$19.64/hr.	\$314.24	

<u>\$1,177.28</u>	\$1,177.28
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TOTAL DRILLING COST	<u>\$8,354.68</u>
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*Married name of M. R. Schaumberger

5.0 CONCLUSIONS

These drill holes are thought to confirm the existence of the orebody and no further drilling is recommended.

SUBMITTED BY:

GIBRALTAR MINES LIMITED

Madeline R. Thon-----
Madeline R. Thon
Mine Exploration Geologist

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

Garry D. Bysouth
Senior Geologist

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
RQD.....	Rock Quality Determination

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		Footwall Dip	Estimated Core Recovery %	P. O. D.	ASSAY RESULTS			
									LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu
65-82 Saus Alt'd Mine Phase QD	60° Wk to Mod.	60	45° 15° x 2 70 80 40° 60 x 3 30° 60° 45°	1/4 1/2 + 1/2 1/8 1 1/16 x 2 + 1/8 1/8 1/10	gtz-ser-chl-py-cp-llz Wt. QD. x 2 gtz-ser-chl-py-cp gtz-chl-py-llz gtz-chl-py-cp-llz gtz-chl-ser-py-cp-llz gtz-chl-py-cp gtz-chl-py-cp gtz-chl-py-cp gtz-chl-py-cp	0 10 20 30 40 50 60 70 80 90	2%	REMARKS Few ep. veins to 65'	65	80%	90%	33594	.28	.013	3995	.16%	
																	69
76-89 Red Hem. St. Carb 79-87 Fault Zones	60° Mod	80	50 x 4 60° 35° 45° 45 x 3 60 x 2 60°	1/20 x 4 1/2 1/8 1 1/4 x 3 1/4 x 2 1/4	gtz-chl-gp x 4 gtz-chl-ser-py-cp-c gtz-ser-chl-py-cp gtz-llz-llz-llz-py gtz-ser-gp-py x 3 gtz-ser-cp-py x 2 g. carb-hem	0 10 20 30 40 50 60 70 80 90	2%	REMARKS 79-87	74	90%	54%	33595	.27	.014	33596	.19%	
																	78
82-123 Serrate textured White QD -somewhat siliceous descriptive in places	ND	90	60° 60° 50° 10° 5° 60 x 2	1/20 1/8 1/8 1 1 1/4 + 1/16 x 2	gtz-dl-p gtz-ser-py gtz-ser-llz-py-cp gg-carb-hem gtz-ser-chl-py-cp gtz-chl-ser-py-cp x 3	0 10 20 30 40 50 60 70 80 90	1%		82	40%	10%	33596	.27	.017	33597	.17%	
																	87
Serritic 93-105	ND to 60° Mod	100	45° 30 x 3 60 30 45 60 x 3 80 x 2	1/4 1 1/4 1/8 1/4 + 1/20 x 2 1/20 x 2	gtz-ser-chl-cp x 3 gtz-chl-ser-py gtz-ser-chl-py-cp gtz-ser-py-llz gtz-chl-cp-py gtz-ser-cp-py x 3 gtz-ser-cp x 2	0 10 20 30 40 50 60 70 80 90	.5%	REMARKS Contains Pyrite	94 1/2	60%	72%	33697	.33	.009	33698	.27%	
																	100
	25° -70° Wk Mod	110	60° + 45° 60 1/20 30 x 4 15 60 x 5 70	1/2 x 2 1/16 1/20 1/8 x 4 1/2 1/20 x 5 1/8	gtz-ser-py-llz x 2 gtz-ser-chl-py-cp gtz-ser-cp gtz-ser-py-cp x 4 gtz-ser-chl-cp-mo gtz-ser-py-cp x 5 gtz-ser-cp	0 10 20 30 40 50 60 70 80 90	.7%	REMARKS Contains pyrit.	105	94%	70%	33598	.37	.018	33599	.30%	
																	110
	ND.	120	20° 60 x 2 45° 30° + 70° 30	1/2 1/2 + 1 1/4 1/8 x 2 1	Rubble gtz-chl-carb-cp gtz-llz-cp-cms x 2 gtz-cp gtz-ser-gp-mo x 2 gtz-ser-py-llz-cp gtz-chl-ser-gp-py x 2	0 10 20 30 40 50 60 70 80 90	1.5%		117	97%	79%	33599	.42	.021	33600	.28%	
																	120

ROCK TYPES & ALTERATION		L to Core Foliation	GRAPHIC LOG Foliation Alteration Foliation Structure	Vein L to Core Alt	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Feet Dip	Estimate Core Recovery %	P O D	ASSAY RESULTS			
									LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu
123-152'	Saus AHd Q13, ?- 35-40% Qtz - fsp xls are quite visible and show alignment	10° 70° Mod	120° 60° 30° 20° 40° 60° 70° 45x2	1	1/2 1/2 3/4 2 1/2 1/16x2 3/4	qtz-ser-chl-ep qtz-ser-chl-py-ep qtz-ser-ep qtz-chl-ser-ep-ep-py qtz-ser-chl-py-ep qtz-chl-ep-ep-py-ep qtz-chl-ep-ep-py-ep qtz-ep-ep	0 10 20 30 40 50 60 70 80 90	10%			127	99%	87%	33600	.29 4.01 OX	.015	.27
152-177	DR. Alt. Mine Phase Q.D. - Seritic in places.	60° Mod	140° 120° 135° 30° 30°	1	3/4 1 1/4 1/4	qtz-chl-ep-cp-py qtz-dl-ser-ep-py-py qtz-chl-carb-ep-py qtz-chl-py-ep-mo qtz-chl-ep	0 10 20 30 40 50 60 70 80 90	1%		143 1/2 147	49% 91%	35%	46790	.29 .018	.11		
																150° 10° 70° 30° 20° 60° 8°	1/2 2 1/2 1/2 1/8 1x1 1/2
177-180 Wt. QD		ND	160° 170° 120° 70° 115° 130° 130° 145° 170°	1/16	1/4 1/4 1/2 1/8 1/8 1/2 1/2 3/4	qtz-chl-py qtz-ep-cpx qtz-chl-carb-ep qtz-chl-carb-ep qtz-ser-carb-ep qtz-ser-carb-py qtz-ser-ep-py-ep qtz-chl-carb-ep-ep qtz-chl-carb-ep qtz-chl-carb qtz-chl-ep-ep-ep qtz-chl-carb-ep qtz-chl-ser-ep qtz-chl-ser-ep-py	0 10 20 30 40 50 60 70 80 90	2%	forced core	164 169 1/2	65% 97%	38%	46792	.36 .038	.25		
																170° 70° 40° 30° 30° 45° 170° 180°	1/8 1/4 1/4 1/2 1/2 1/2 3/4
		ND	180° 70° 40° 30° 30° 45° 170° 180°	1/2	1/2	0 10 20 30 40 50 60 70 80 90	77%	180									

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GIBRALTAR MINES LTD.

HOLE No. 87-06
SHEET No. 4 of 5

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 % PIRITE	BOTTOM DEPTHS		Estimate Core Recovery %	R.O.D	ASSAY RESULTS					
									LEACH CAP	LIM. ZONE			Sample Number	% Cu	% Mo	Estimate Cred		
180-194 OX AH ^m - Mine Phase GD	N.D.		180	160°	1/20	gtz-chl-cp	0	5%			77%	180	52%	46794	.31	.024	.28%	
				170°+40°	1/2 X 2	gtz-ser-chl-cp x 2	10		REMARKS Blueschist cp	193								
				30°	1/2	gtz-chn-cp	20											
			130	60°	1/2	gtz-carb-chn-cp	30			91%								
			120°	43	1/3	gtz-chn-carb-cp-mo	40											
			190	70°	1/8	gtz-chn-carb-mag-cp-py	50											
				70°	1/8	gtz-sr-cp-mo	60											
				50	1/2	gtz-ser-cp	70											
				60°	1	gtz-ser-chn-carb-cp-py-mo	80											
				50	1/4	gtz-ser-chn-carb-cp-py-mo	90											
				30°	1/4	gtz-chn-cp-mo	100				75%							
194-205 1/2 Transition Zone 2 to Wt. 90% - Less mafics - Eo Stringers + veins zones of	ND			70°	1/4	gtz-chn-cp-mo	10											
					20 X 3	1/2 X 3	gtz-chn-cp-mo	20										
					200	70°	1/8	gtz-chn-cp-mo	30									
				30 X 3	1/8	gtz-chn-cp-mo	40											
				70°	1/2	gtz-chn-cp-mo	50											
				70°	1/2	gtz-chn-cp-mo	60											
				115°	1/2	gtz-ser-cp-mo	70											
			200	70°	1/8	gtz-ser-cp-mo	80											
				70°	1/4	gtz-chn-cp-mo	90											
				60°	1	gtz-ser-chn-cp-py-mo	100											
				60 X 3	1/2 X 3	gtz-ser-chn-cp-py-mo	10											
				60°	1/8	gtz-chn-cp-mo	20											
				70°	1/2	gtz-chn-cp-mo	30											
				70°	1/2	gtz-chn-cp-mo	40											
				115°	1/2	gtz-ser-cp-mo	50											
			210	70°	1/8	gtz-ser-cp-mo	60											
				60°	3	gtz-ser-chn-cp-py-mo	70											
				60 X 2	1/2 X 2	gtz-ser-chn-cp-py-mo	80											
				125°	1/4	gtz-chn-cp-py	90											
				60°	1/2	gtz-chn-cp-py	100											
				15°	1/2	gtz-ser-cp-py-mo	10											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	20											
			220	30°	5	gtz-ser-cp-py-mo	30											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	40											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	50											
				30°	5	gtz-ser-cp-py-mo	60											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	70											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	80											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	90											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	100											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	10											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	20											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	30											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	40											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	50											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	60											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	70											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	80											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	90											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	100											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	10											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	20											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	30											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	40											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	50											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	60											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	70											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	80											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	90											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	100											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	10											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	20											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	30											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	40											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	50											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	60											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	70											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	80											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	90											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	100											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	10											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	20											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	30											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	40											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	50											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	60											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	70											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	80											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	90											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	100											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	10											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	20											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	30											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	40											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	50											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	60											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	70											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	80											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	90											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	100											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	10											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	20											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	30											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	40											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	50											
				60 X 2	1/4 X 2	gtz-ser-cp-py-mo	60											
				60 X 2	1/4 X 2	gtz-ser-c												

GRID _____

GIBRALTAR MINES LTD.

HOLE No. 84-06
SHEET No. 5 of 5

ROCK TYPES & ALTERATION			L to Core Fallline	GRAPHIC LOG		Veins L to Core Ash	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS			Footlogs Diagrams	Estimated Core Recovery %	P. O. D.	ASSAY RESULTS			
				Foliation Alteration	Footlogs						Stratigraphy	LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu
		292 - 250'			60° 45° 45° 60° 5° 70x2 60°	1/8 1/20 1/20 1/8 hlc hlc x 2 1/2		gtz-cp gtz-chl-cp gtz-chl-carb-cp-mo chl-gtz-cp carb-agg + hem gtz-chl-cpxz gtz-chl-cp-py	0 10 20 30 40 50 60 70 80 90	1%			243 245 247 250	60% 70% 60% 70%	20%	46000	.25	.012	.99 38% 16%	
		<u>E.O.H. @</u> <u>250'</u>							0 10 20 30 40 50 60 70 80 90											
									0 10 20 30 40 50 60 70 80 90											
									0 10 20 30 40 50 60 70 80 90											
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part 5 of 5

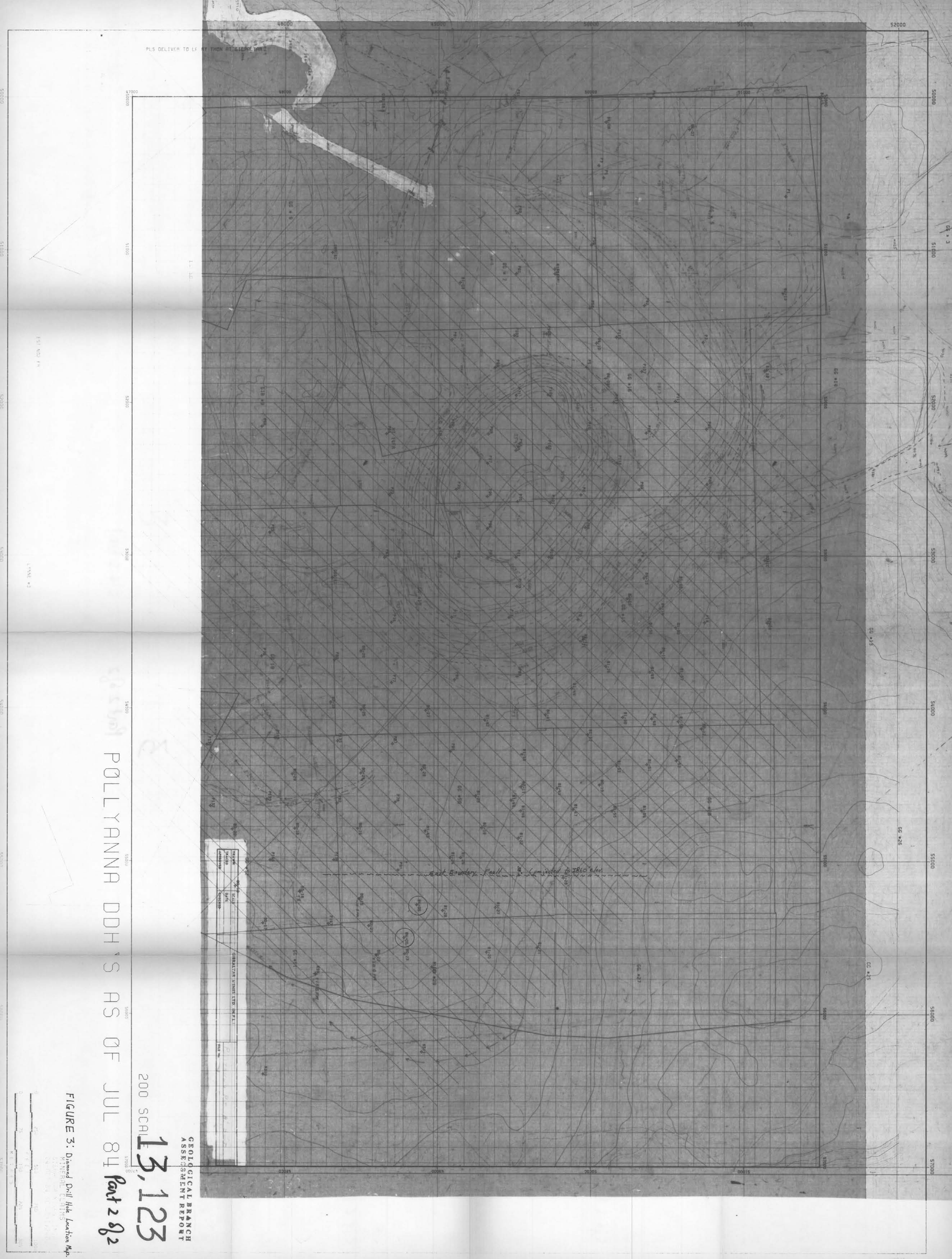
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GIBRALTAR MINES LTD.

HOLE No. A4-05
SHEET No. 2 of 4

ROCK TYPES & ALTERATION		L to Core Foliation	GRAPHIC LOG Foliation Alteration Footage Structure	Vein L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Feet Blot	Estimate Core Recovery %	P O D	ASSAY RESULTS						
									LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu	% Mo	Estimate Grade	
Poss. Sm Fault	40°	100		10"	5'	(99)-bx - hemi - lost core	-	1.0?			75	45	10	33756	.38	.018	.12			
																		qtz-chl-ep (cp) zone	80	55
																		qtz (cp)		
Poss. Sm Fault	40°	100		10"	5'	(99)-bx	-	1.0?			84	50	10	33757	.25	.018	.15			
																		qtz	70	39.50
																		qtz-chl-ep qtz-chl-py		
Small Fault	40°	100		10"	1/2 x 1"	bx + last core	-	.5			92	80	7	33758	.49	.016	.18			
																		qtz-ser-ep x2 cp 99-bx		
																		qtz-ser (py)		
Small Fault	40°	100		10"	1/4 x 2"	bx-99 - lost core	-	.5			101	30	0	33759	.38	.008	.14			
																		qtz-py x2	80	
																		py x2 99-bx - lost core		
Small Fault	40°	100		10"	1/10 x 2"	bx + last core	-	.5			113 1/2	90	0	33760	.42	.036	.12			
																		qtz-py x2		
																		qtz-ser-py qtz-mag (cp) x2 qtz (cp)		
Small Fault	40°	100		10"	1/8 x 2"	bx + last core	-	.5			119	80	7	33761	.31	.024	.15			
																		qtz-py x2		
																		qtz-mag (cp) qtz-chl-ep qtz qtz (cp) x2 qtz-ser (py) (cp) zone		

ROCK TYPES & ALTERATION			L to Core Foliation Alteration Footage Structure	Veins L to Core Axis	Width of Vein	Mineralization	FRACTURE ANGLE TO CORE AXIS -FREQUENCY-	ESTIMATED % PYRITE	BOTTOM DEPTHS		Footage Discs	Estimated Core Recovery %	P.C.D.	ASSAY RESULTS					
									LEACH CAP	LIM. ZONE				SUPERGENE	REMARKS	Sample Number	% Cu	% Mo	
			140	30 30 x 2 20 5	1/10 1/10 x 2 1" 3 1/2'	qtz-chl-ep qtz-chl-ep qtz-carb-chl broken quartz core	0 10 20 30 40 50 60 70 80 90	.5			133	80	13	33762	.32	.016	.39 3905	.10	
		poss. small fault	140								137	85							
			150	45 x 2 45-50 x 4 45	1/4 + 1" 3' 1/20 x 4 1/10	qtz-chl-(ep) x 2 qq-bx - lost core qtz-chl-py x 4 qtz-chl-py	10 20 30 40 50 60 70 80 90	.5			142 1/2	60	23	33763	.21	.012		.10	
			150								148	70							
			160	50 + 40 + 35 30 x 2 60 30 30 5	1/2 + 1/20 x 2 1" x 2 3" 1" 1/2	qtz-chl-py (ep) x 2 qtz-(chl)-cp x 2 qtz-ser-py qtz-ser-py (ep) qtz-chl-(ep) qtz-chl-ep	10 20 30 40 50 60 70 80 90	1.0			151 1/2	95	33	33764	.19	.034		.15	
			160	5 + 30	1/10 + 1/8	qtz-chl-(ep)	10 20 30 40 50 60 70 80 90				157	90							
			167	45 + 50 + 60 + 20 45 15 5 40 30 30 80	1/10 + 1/8 + 2 + 1/2 3" 1/2 1/10 1/8 2"	qtz-chl-py (ep) x 2 qtz-chl-ep qtz-ep zone qtz-ep qtz-chl-ep qtz-chl-ep qtz-chl-ep qtz-chl-ser (ep)	10 20 30 40 50 60 70 80 90	1.0			163 1/2	90	13	33765	.21	.018		.25	
		MINE PHASE QUARTZ DIRT Saus. Alth phase	170								167	85							
		incr. ep @ contact (162 - 250')	170	45 x 3 35 40 x 3	1/10 x 3 1/10 x 3	qtz-chl-ep x 3 qtz-chl (ep) qtz-chl-ep x 3 bx + lost core	10 20 30 40 50 60 70 80 90	.5			174	60	20	33766	.12	.028	20 3860	.20	
			180	20	1/10	qtz-chl-(ep)	10 20 30 40 50 60 70 80 90				182	80							
			180	30 30 50 + 35 40 50 x 2 35 40	2" 1/2 1" + 1/10 2 1/2" 1/20 x 2 1/3	qtz-ep qtz qtz-chl-ep x 2 (qtz) ep zone qtz-chl-ep x 2 qtz (cp) (vug) qtz-chl-ep-py-ep	10 20 30 40 50 60 70 80 90	.5			186	80	17	33767	.18	.010		.25	
			190	40	1		10 20 30 40 50 60 70 80 90				190	80							



PLS DELIVER TO L... BY THON AT GIBRALTAR

L.I. INC.

EST. NO. 2 FM

L.I. INC. #3

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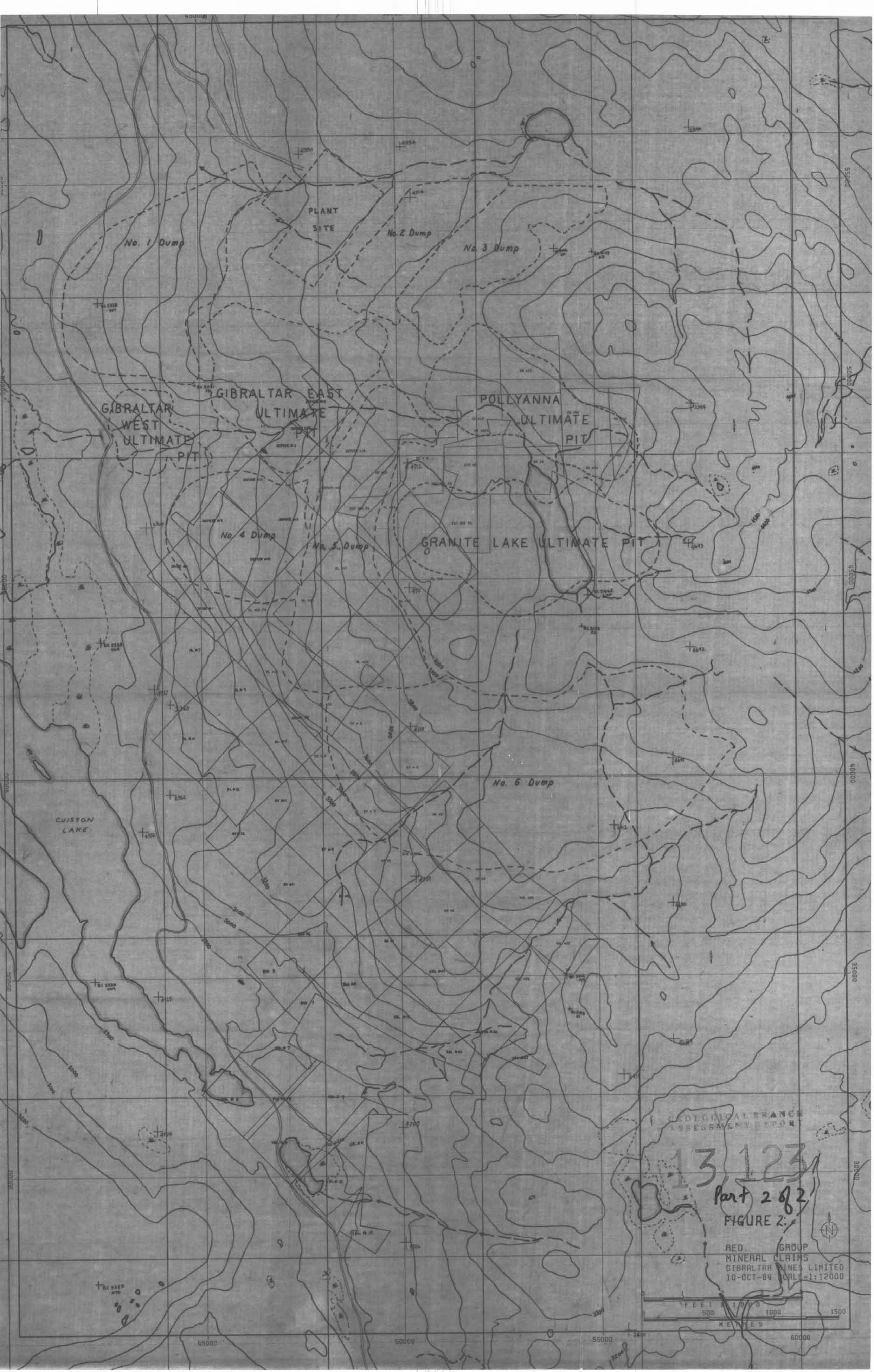
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POLLYANNA DDH'S AS OF JUL 84 Part 2 of 2

200 SCALE
13,123
 GEOLOGICAL BRANCH
 ASSESSMENT REPORT

NAME	SCALE	DATE	REVISION
...
...

FIGURE 3: Diamond Drill Hole Location Map - MINERAL CLAIMS



GEOLOGICAL BRANCH
ASSESSMENT SECTION

13,123
Part 2 of 2
FIGURE 2:

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

FEET 1000 500 1000 1500
METRES