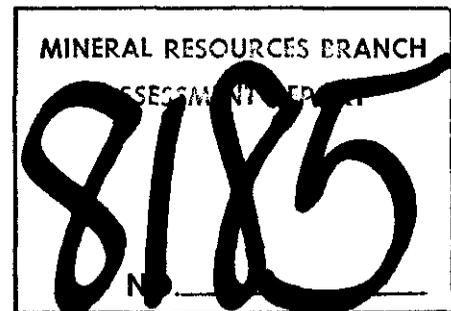


DIAMOND DRILL REPORT
ON THE
PINK GROUP
CARIBOO MINING DIVISION
93 B 8
(LATITUDE 52° 30', LONGITUDE 122° 19')

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



Author: G.D. Bysouth

Submitted: 3 July 1980

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	Drill Log: Hole 80-31	"
	Drill Log: Hole 80-32	"
	Drill Log: Hole 80-33	"
	Drill Log: Hole 80-34	"
	Drill Log: Hole 80-35	"
	Drill Log: Hole 80-36	"
	Drill Log: Hole 80-37	"
	Drill Log: Hole 80-38	"
	Drill Log: Hole 80-39	"
	Drill Log: Hole 80-40	"

1.0 INTRODUCTION

The Pink Group lies approximately 1.5 miles (2.42 km) southwest of the Gibraltar Mines concentrator. It covers much of Cuisson Lake and extends north about 2 miles (3.33 km) from the Northern tip of the lake. Elevations within the group range from about 2900 feet to 3500 feet. Access is via a two-wheel drive road which links the claims to the Gibraltar Mines road at a point about 3 miles (4.8km) from the plant site. The general location of the group is shown in Figure 1.

The property was first staked in 1928 by the Hill brothers. Mineralization found in a shear zone was tested with a trench and open-cut 75 feet in length. A chip sample across the heaviest mineralization gave 25 feet of 2.0% copper, but no gold or silver.

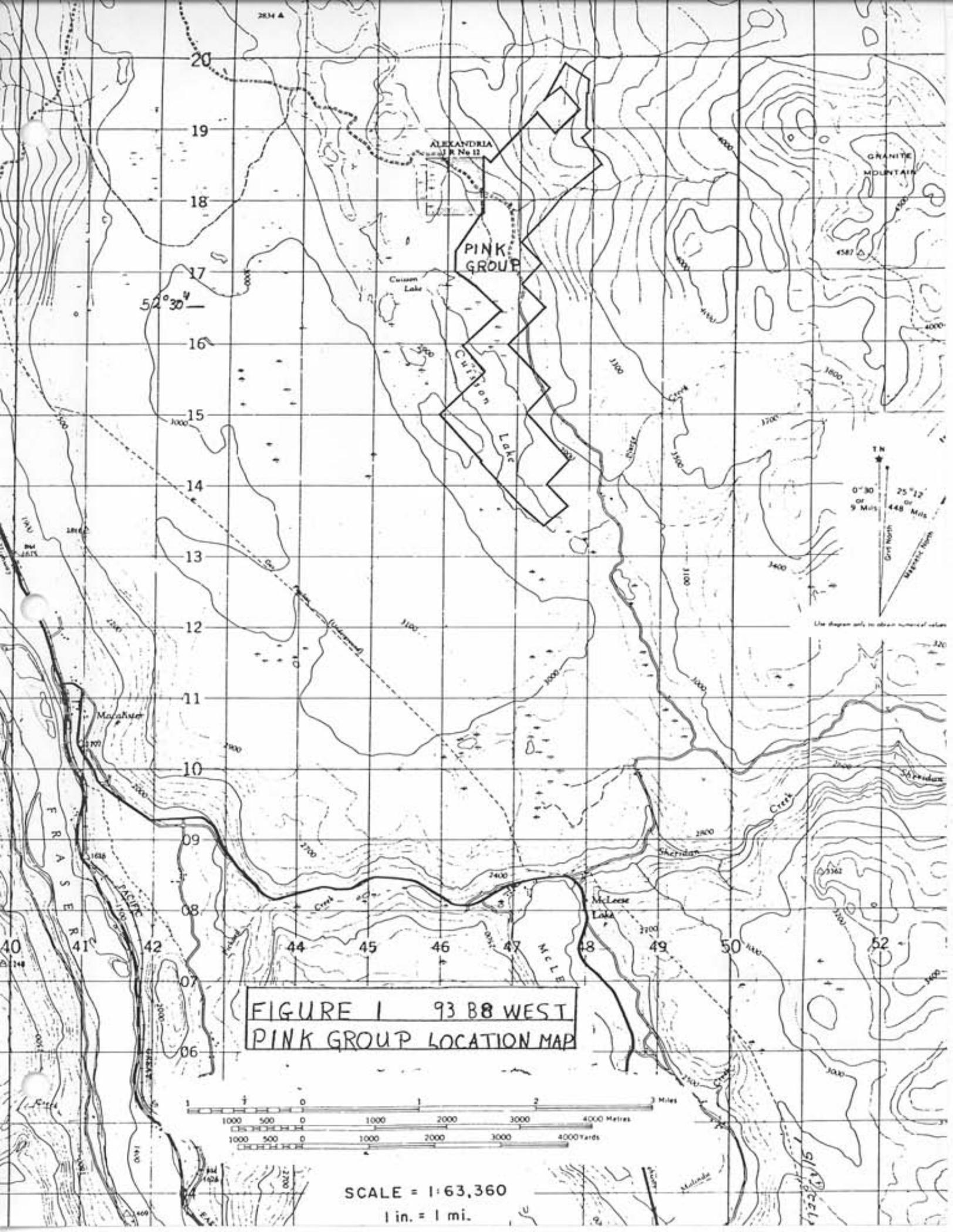
From 1954 to 1956, Sunset (Kimacllo Mines Limited) staked 100 claims in this area and in the Pollyanna area on Granite Mountain. They drove the "Sunset Adit" into the shear zone along Granite Creek at a point about one mile (1.6 km) east of the north end of Cuisson Lake. The adit ran for a distance of 110 feet at S35°E. They tested the area around the adit with a pack sack diamond drill. Chip sampling of open cuts west and east of the portal yielded 23 feet of .87% copper and 23 feet of .20% copper respectively. A sample taken of the hanging wall above the shear assayed 12.5 feet of 1.43% copper, and one across the shear yielded 2 1/3 feet of 1.95% copper.

In 1958, Sunset (Major Mines Limited) took over 72 claims in this area. They did 3,000 feet (937.5m) of diamond drilling in 10 holes and carried out a geological mapping program over the area.

In 1967, McPhar Geophysics Limited carried out an I.P. Survey for Cominco Limited which outlined a small anomaly at the northern end of the Pink Group.

Gibraltar Mines have held some claims in the area since 1962. In 1969 they drilled 15 N.Q. wireline holes as part of a larger program designed to test the extensions of the Granite Lake and Gibraltar East orebodies. Gibraltar Mines Limited was working under an agreement with Duval Corporation and Canadian Exploration Limited until 1971 when all interests reverted to Gibraltar. The claims presently in the Pink Group were grouped in 1972 and some of them have been taken to lease. Figure 2 shows a detailed location map of claims and leases in the Pink Group, all of which are owned by Gibraltar Mines Limited.

This report covers a drill program designed to test the mineralized area indicated by the adit, the 1969 drill program and the McPhar Geophysics anomaly. J.T. Thomas Drilling was contracted during the period March 8 to March 11 and April 30 to May 17, 1980 to drill fourteen vertical N.Q. wireline diamond drill holes totalling 6,473 feet (2,022.81m). Core is stored at Gibraltar Mines plant site.



ALEXANDRIA
Rd No 12

PINK
GROUP

Curison Lake

Curison
Lake

GRANITE
MOUNTAIN

52° 30'

1 N

0° 30'

or

9 Miles

25° 32'

or

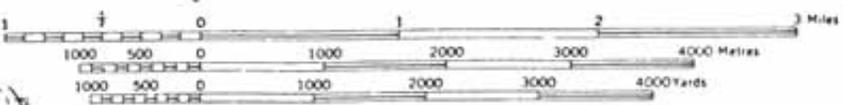
448 Miles

Grid North

Magnetic North

Use diagram only to obtain numerical values

FIGURE 1 93 B8 WEST
PINK GROUP LOCATION MAP



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

1722/15

2.0 MINERAL CLAIMS

Claims and leases of the Pink Group are shown in Figure 2. Information on them is tabulated below.

<u>CLAIM NAME</u>		<u>RECORD NO.</u>	<u>LOT NO.</u>	<u>LEASE</u>	<u>ANNIVERSARY DATE</u>
A1-1		28447	-	-	July 2, 1983
	2	48	-	-	"
	3	49	-	-	"
	4	50	-	-	"
	6	52	-	-	"
DOT	2	34978	3596	M-34	JULY
	3	79	"	"	"
	4	80	"	"	"
	5	81	"	"	"
EST	5 Fraction	62403	3596	M-34	JULY
	6 Fraction	04	4150	M-65	OCTOBER
EV	17	31741	-	-	Jan. 17, 1981
	19	31743	-	-	"
	21	36364	-	-	June 14, 1983
	22	65	-	-	"
JAN	2 Fraction	61461	4150	M-65	OCTOBER
PAN	1	25791	4150	M-65	"
	4	25794	3596	M-34	JULY
	5	95	"	"	"
	11	35742	-	-	Feb. 1, 1981
	12	43	-	-	"
RUM	79 Fraction	58239	3596	M-34	JULY
STU	5 Fraction	52932	-	-	July 18, 1983
ZEPHYR	1	25574	3596	M-34	JULY
	3	76	"	"	"
	5	78	"	"	"
PINE TREE	1	43029	-	-	July 4, 1982
	2	30	-	-	"
	3	43488	-	-	Sept. 6, 1982
	4	89	-	-	"
	5	90	-	-	"
	6	91	-	-	"
VAL	1	33849	-	-	Mar. 18, 1981
	2	50	-	-	"
	4	52	-	-	"
GIB	21 Fraction	66784	4150	M-65	OCTOBER

All of these claims belong to Gibraltar Mines Limited and adjoin to the south, east and north, 2-post claims of the Gibraltar Mines permanent property. The western edge of the group is bounded by Indian Reserves and private sub-divisions.

3.0 DRILL PROGRAM

3.1 OBJECTIVE

The purpose of this drill program was to test the mineralized area indicated by the adit, the 1969 drilling program, and a McPhar geophysics anomaly.

3.2 RESULTS

The drill hole locations are shown in Figure 2. Drill holes along a narrow strike zone intersected good chalcopyrite and pyrite mineralization. Holes which missed the zone were relatively barren. Oxide and supergene effects were negligible. 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_2 and silver is given as ounces per ton.

Hole 80-10 was cased to 51 feet. No significant mineralization was intersected.

Hole 80-11 was cased to 41 feet. Between 280 and 480 feet, 200 feet of .421% copper was intersected. Molybdenum values were insignificant. Three 10-foot random samples averaged .023 oz/ton silver.

Hole 80-30 was cased to 30 feet. Between 270 and 600 feet, a 330-foot zone of .68% copper was intersected. Molybdenum values were insignificant. Silver values for randomly selected samples were relatively higher than those generally found in the nearby Gibraltar Mines open pits. The average grade obtained for seven random samples was .103 oz/ton silver. Six of these samples were also assayed for zinc giving an average grade of .05% zinc.

Hole 80-31 was cased to 20 feet. Between 110 and 430 feet, a 320-foot zone of .405% copper was intersected. Molybdenum grades were insignificant. Four random samples gave an average grade of .138 oz/ton silver. Zinc values reported for these same intervals averaged .04% zinc.

Hole 80-32 was cased to 20 feet. Twenty feet of .40% copper was intersected between 230 and 250 feet. One high molybdenum value of .500% MoS_2 was intersected at 250 to 260 feet. Silver averaged .029 oz/ton for four 10-foot samples and zinc values for the two samples averaged .04% zinc.

Hole 80-33 was cased to 30 feet. Between 70 and 380 feet, a 310-foot zone of .493% copper was intersected. Molybdenum values were insignificant. An average silver value of .089 oz/ton silver was obtained from six random ten-foot samples. Two samples tested for zinc averaged .1% zinc.

Hole 80-34 was cased to 40 feet. Between 40 and 240 feet, a 200-foot zone of .657% copper, was intersected and between 430 and 460 feet, a 30-foot zone of .28% copper was intersected. There are no significant molybdenum values. An average silver value of .058 was obtained from five random 10-foot samples.

Hole 80-35 was cased to 20 feet. Between 40 and 200 feet, a 160-foot zone of .409% copper was intersected. There were no significant molybdenum values. Two random 10-foot samples averaged .084 oz/ton silver.

Hole 80-36 was cased to 10 feet. Between 30 and 130 feet, a 100-foot zone of .275% copper was intersected. There were no significant molybdenum values. Silver assays averaged .039 oz/ton silver for three random 10-foot samples tested.

Hole 80-37 was cased to 10 feet. Between 180 and 200 feet, a 20-foot zone of .765% copper was intersected and between 350 and 400 feet a 50-foot zone of .322% copper was intersected. There were no significant molybdenum assays. Two random 10-foot samples averaged .021 oz/ton silver.

Hole 80-38 was cased to 10 feet. Copper values were sporadic with short zones of mineralization. Between 80 and 120 feet, a 40-foot zone of .24% copper was intersected and between 410 and 430 feet, a 20-foot zone of .315% copper was intersected. Molybdenum values were not significant. Silver values averaged .032 oz/ton silver over three random 10-foot samples.

Hole 80-39 was cased to 14 feet. No significant copper or molybdenum values were intersected. Three random 10-foot samples averages .029 oz/ton silver.

Hole 80-40 was cased to 34 feet. Between 110 and 396 feet, a 286-foot zone of .364% copper was intersected. There were no significant molybdenum assays. Four random 10-foot samples averages .058 oz/ton silver.

Hole 80-41 was cased to 24 feet. Between 310 and 580, a 270-foot zone of .550% copper was intersected. 7% significant molybdenum values were reported. Nine random 10-foot samples averaged .062 oz/ton silver.

3.3 INTERPRETATION

Drill results from this report suggest that a narrow sulphide zone has been intersected which has a known strike length of 1,150 feet. The copper bodies are believed to be of a roughly cylindrical shape formed at the intersections of two shear systems. There are two of these cylinders, the top one being approximately 180 feet thick at the center of the zone, and the bottom one being about 100 feet thick. The bottom zone is also of a somewhat lower grade. Molybdenum values are very low throughout the system. Silver values appear to follow the same trends as the copper values.

The host rock of the copper body is a quartz-chlorite/quartz-sericite schist running in three continuous shear zones, all striking at an azimuth of 304°. The main system dips approximately 60° to the northeast and the other two zones cut it with a 30° southwesterly dip. There appears to be a pervasive chlorite alteration envelope surrounding the shear zones and this grades out into an epidote-chlorite altered Mine Phase quartz-diorite.

The northwestern end of the ore zone appears to be faulted downward and northeasterly with a resultant movement of about 350 feet. The fault strikes 010° azimuth and dips 40° westerly.

4.0 STATEMENT OF EXPENDITURES

MARCH - MAY, 1980 DIAMOND DRILLING, PINK GROUP

a) Site Preparation

TD 20 C Bulldozer	February 15	2.25 hours	
TD 20 E Bulldozer	April 7-8	<u>14.00 hours</u>	
		16.25 hours @ \$57.75/hr.	\$ 938.44

b) Drilling Costs

Moving: Flatbed Rental		\$ 210.00	
Drill Company Charges		<u>1,932.25</u>	
		\$2,142.25	\$2,142.25
Drilling: 80-10		\$ 5,684.00	
80-11		6,524.00	
80-30		8,696.00	
80-31		7,084.00	
80-32		5,684.00	
80-33		7,056.00	
80-34		7,056.00	
80-35		3,192.00	
80-36		5,684.00	
80-37		5,530.00	
80-38		8,696.00	
80-39		5,572.00	
80-40		5,544.00	
80-41		<u>8,696.00</u>	
		\$90,698.00	\$90,698.00
Materials			<u>8,588.46</u>
			\$101,428.71
			101,428.71

c) Vehicle Costs

4x4 1980 Suburban	February 15	1 day	
	March 9	1 day	
	April 7-8	2 days	
	April 30	1 day	
	May 1-18	<u>18 days</u>	
		23 days @ \$17.20/day	395.60

d) Assay Costs

675 assays @ \$4.40/assay			2,970.00
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e) Miscellaneous Costs

330 core boxes @ \$4.60/box	\$1,518.00	
Sample bags, tags, etc.	<u>150.00</u>	
	\$1,668.00	1,668.00

f) Personnel Costs

<u>Core logging and supervision</u>		
G. D. Bysouth	March 11-13	24 hours
	March 14	8 hours
	March 17-18	16 hours
	May 5-9	40 hours
	May 12-16	40 hours
	May 20	8 hours
	May 26-29	<u>32 hours</u>
		168 hours @ \$19.60/hr.
		3,292.80

M. Schaumberger	May 2	8 hours	
	May 6-9	32 hours	
	May 12-15	32 hours	
	May 22-23	8 hours	
	May 26-28	<u>24 hours</u>	
		104 hours @ \$10.67	1,109.68

Field work and organizing

E. Oliver	Feb. 15	4.0 hours	
	March 9	<u>4.5 hours</u>	
		8.5 hours @ \$13.23/hr.	112.46

C. Johnston	Feb. 15	4.0 hours	
	March 9	4.5 hours	
	May 3-4	4.5 hours	
	May 10-11	3.5 hours	
	May 17-18	<u>2.5 hours</u>	
		19.0 hours @ \$10.87/hr.	206.53

Core Splitting

E. Oliver	March 12-13	16 hours @ \$13.23/hr.	211.68
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C. Johnston	March 12-13	16 hours	
	May 5-9	40 hours	
	May 12-13	<u>16 hours</u>	
		72 hours @ \$10.87/hr.	782.64

W. Raven	May 5-9	40 hours	
	May 15-16	16 hours	
	May 20-21	16 hours	
	May 30	8 hours	
	June 13	8 hours	
	June 16	<u>8 hours</u>	
		96 hours @ \$9.23/hr.	886.08

R. Riedel	May 21-23	24 hours	
	May 26-30	40 hours	
	June 2-3	16 hours	
	June 6	8 hours	
	June 11-13	24 hours	
	June 16	8 hours	
	June 23-27	40 hours	
	July 2-4	<u>24 hours</u>	
		184 hours @ \$6.67/hr.	1,227.28

M. Duquette	May 12-13	16 hours	
	May 15-16	16 hours	
	May 30	8 hours	
	June 17	4 hours	
	June 19-20	12 hours	
	June 23-27	40 hours	
	June 30	8 hours	
	July 2-4	<u>24 hours</u>	
		128 hours @ \$7.80/hr.	998.40

TOTAL DRILLING COST

\$116,228.30

5.0 CONCLUSIONS

Drilling results indicate a chalcopyrite-pyrite body exists northwest of the Sunset adit. The sulphides appear to be concentrated into two cylincer-like zones, both having a horizontal axis, a strike of 304° , a strike length of 1,150 feet and a width of about 150 feet. Further drilling is required to completely delineate the zone.

Submitted by,



Garry D. Bysouth
Senior Geologist

GIBRALTAR MINES LIMITED

APPENDIX I

STATEMENT OF QUALIFICATION

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

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

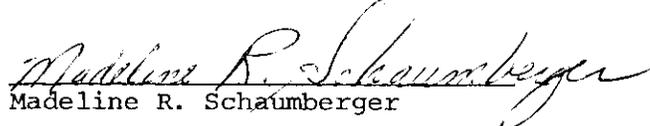

Garry D. Bysouth

APPENDIX I

STATEMENT OF QUALIFICATIONS

I, Madeline R. Schaumberger, of Gibraltar Mines Limited, McLeese Lake, B.C. do certify that:

1. I am a geologist.
2. I am a graduate of the University of B.C. with a B.Sc. in Geological Science in 1978.
3. From 1978 to the present I have been engaged in mining and exploration geology in B.C.
4. I personally assisted in the supervision of this drill program, logging of the core and assessment of the results.


Madeline R. Schaumberger

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

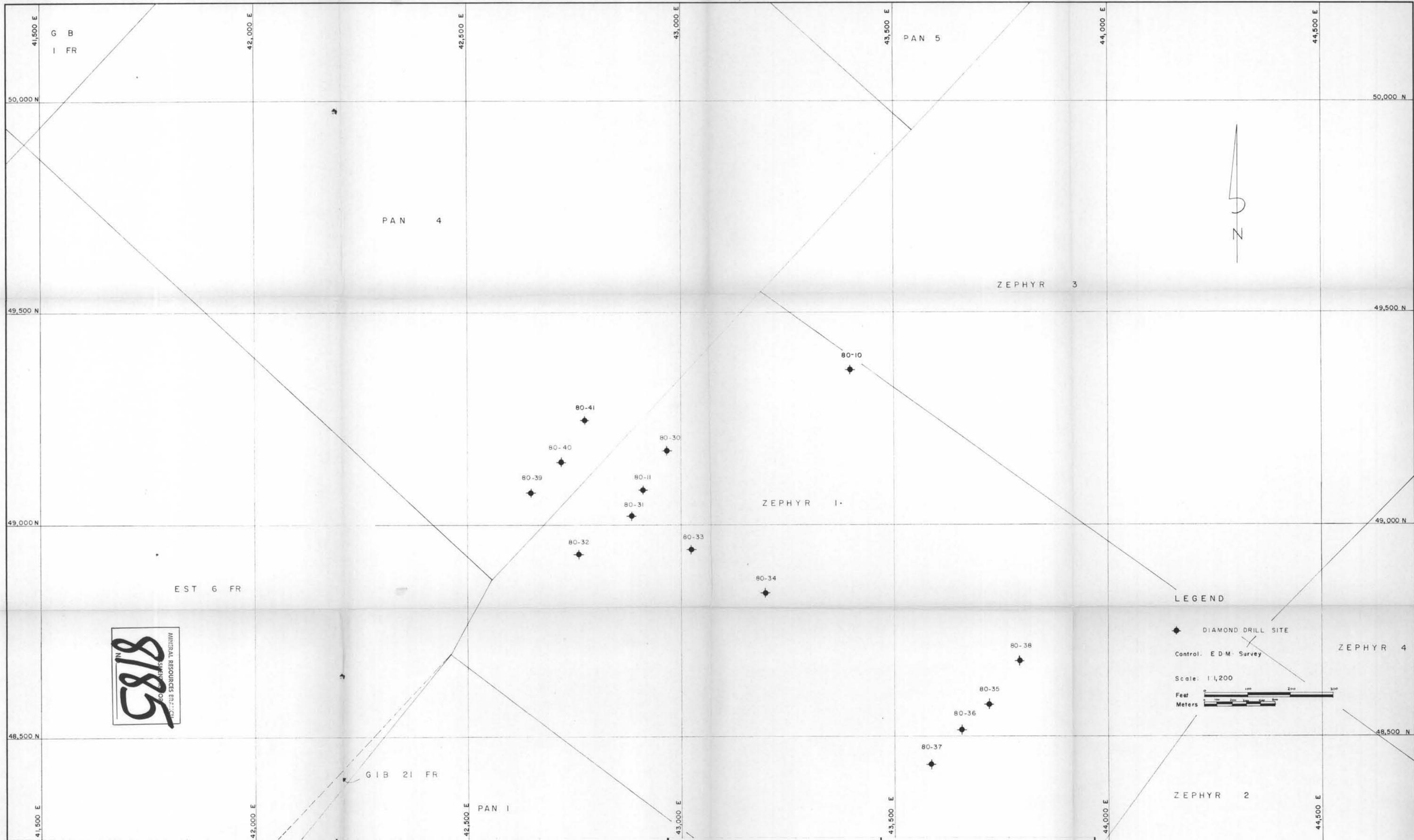
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MINERAL RESOURCES ENGINEERING
 SUPERVISOR
8185

LEGEND

- ◆ DIAMOND DRILL SITE
- Control: E D M Survey
- Scale: 1:1,200

Feet
Meters

DWN. CHECK APPR		ISSUED FOR		DATE REV.		DESCRIPTION		DWN. CHECK APPR		ISSUED FOR		DATE REV.		DESCRIPTION		REFERENCE		No.		DWG. No.		SCALE		GIBALTAR MINES LIMITED PINK GROUP		DIAMOND DRILL HOLE LOCATIONS FILE No. FIGURE 3	
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NO. 271 G.M.E.