Gibrattar Mines

GIBRALTAR HINES PROPERTY - McLEESE LAKE SUMMARY REPORT OF EXPLORATION (1967) NTS 93 B 8/9

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MRM:mk December 15, 1967	

#### COMINCO LTD.

#### EXPLORATION

WESTERN DISTRICT

GIBRALTAR MINES PROPERTY—McLEESE LAKE SUMMARY REPORT OF EXPLORATION (1967) NTS 93 B 8/9

# SUMMARY AND RECOMMENDATIONS

Cominco optioned the Gibraltar copper property on May 16, 1966. From May 16 to September 20, 1966, Cominco conducted geological mapping, geochemical surveying, I.P. surveying, drilling and a small amount of trenching. Results from this, and previous work, indicated a reserve of 14 million tons grading 0.52% Cu. Open pit mining of this reserve would involve a stripping ratio of approximately 4:1.

On April 1, 1967, Cominco, via an agreement with Litsubishi Mining, again undertook field work on the Gibraltar property. Work began with an initial diamond drill program consisting of 2,412 feet in six holes. This was followed by a detailed search of claim locations, an extensive I.P. survey, plus minor geochemical soil sampling and magnetometer surveying. Follow-up drill testing of the I.P. anomalies consisted of 2,283 feet in eight holes, which completed the 1967 program. Field work finished on November 10, 1967.

Although several promising I.P. anomalies were found, some of which were supported by geochemical and magnetometer surveys, subsequent drilling failed to reveal mineralization of economic importance. A few untested possibilities remain, but information collected during the past two years indicates that no further work by Cominco is justified under present conditions.

#### INTRODUCTION

The history of the Gibraltar property is given in detail in a report dated March 13, 1967 by Cominco Senior Geologist, D. W. Heddle and is summarized below:-

Situated about 35 miles north of Williams Lake, and about 5 miles east of the Cariboo highway, the Gibraltar property consists of 220 located claims.

The main showing on the property was discovered about 1927, and was reported in the B.C. Minister of Mines 1928 report as the Hill property. The first significant exploration was carried out in the late 1950's. The property was brought to Cominco's attention in 1960, but was turned down following a field examination.

The only significant knowncopper showing on the property was exposed in Granite (Copper) Creek. A 110' drift was driven on the showing in the late 1950's and about 4,000' of drilling was done during that period. Cominco's examination and sampling in 1960 attributed the high grade adit material (1.3% Cu) to anomalous secondary chalcocite. Drilling at that time indicated the existence of a large volume of low grade (0.3% Cu) mineralization, but no evidence was observed to indicate that significant amounts of higher grade material could be located within the then drilled area or on adjoining ground.

Various organizations carried on sporadic programs between 1960 and 1965. The work included mapping, geophysics, trenching, and drilling which was mainly concentrated on a relatively small area near the original adit zone. Keevil Mining carried out the most comprehensive program in 1962 and located geochemically anomalous zones to the east of the adit zone. In 1963 Huntec Surveys performed an I.P. survey covering a relatively small area around the adit which indicated a narrow anomaly that broadened and was open for extension to the northwest. Late in 1965 Gibraltar Mines commenced a major drilling program to test this anomaly.

Several previous holes had encountered attractive copper values, but these intersections were generally restricted by low grade material cut by adjacent holes. The prospect of outlining a body of minable grade ore in the adit area did not look promising.

Late in 1965 and early in 1966 Gibraltar Mines drilled several additional holes in the immediate adit area, but as these intersected no significant copper mineralization, the program was expanded to include the geochemically anomalous zone to the east of the adit and also the broad I.P. anomaly area extending northwesterly from the adit. Results from northwest of the adit yielded the encouragement which resulted in Cominco optioning the property in May, 1966, after Gibraltar Mines had completed 11,000 feet of their 1965 drill program. Between May 16 and September 30, Cominco carried out a program of mapping, geochemical surveying, I.P. surveying, drilling and a small amount of trenching. A total of 10,200' of drilling was completed in 19 holes. Results of this and previous work indicated reserves totalling approximately 14 million tons grading 0.5% Cu having an open pit strip ratio of approximately 4:1.

In 1967 an agreement involving Gibraltar, Cominco and Mitsubishi Mining was concluded whereby exploration would be continued on the property. The 1967 program was financed by Mitsubishi-Mining and managed by Cominco personnel.

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The 1967 program consisted mainly of drilling and I.P. surveying. Geochemical and magnetometer surveys were also conducted in local areas as a supplement to the I.P. work and as a follow-up to 1966 coverage. A total of 4,695 feet of BQ wire line drilling was completed in 14 holes.

A substantial part of the 1967 work involved line cutting, claim location checks, and fill in staking. Drilling and field work was completed November 10, 1967.

#### GEOLOGY

### (a) General Geology

Jurassic quartz diorite intrudes Permian and Triassic sedimentary and volcanic rocks in the general area of the Gibraltar Mines property. Tertiary sediments and volcanics cover extensive areas of the older rocks. The major portion of the Gibraltar claim group is underlain almost entirely by quartz diorite. An inferred extension of the Fraser River fault system runs through the west side of the intrusive body in the vicinity of Cuisson Lake. Outcrop is sparse with many large areas having none at all.

On the basis of subtle statistical differences in colour, texture, percentage of mineral constituents and degree and type of alteration, four varieties of quartz diorite have been mapped.

- (1) Typical quartz diorite pale creamy, yellowish green, medium to coarse grained; composed of epidotized plagioclase, irregular to prismatic chlorite pseudomorphs after amphibole, and contains 10-20% granular quartz.
- (2) Mafic quartz diorite light green, fine to medium grained; contains 10-20% chlorite and normally less than 10% interstitial quartz.
- (3) Feldspathic quartz diorite intergradational between typical and mafic quartz diorite. Buff coloured, it generally has a lack of epidotized feldspar, and has interstitial type quartz.
- (4) Silicified quartz diorite creamy-grey, 15-25% granular quartz, and numerous intersecting veins and veinlets of quartz.

Zones of sericite-chlorite schist represent highly sheared quartz diorite. In the southern part of the mapped area, granodiorite intrusions are found. They appear to represent later, but genetically related bodies.

The intruded rocks consist mainly of metamorphosed calcareous sediments. Conglomerate, limestone, laminated chlorite carbonate schists, and skarn were noted in several areas.

### (b) Structure

The regional grain is northwest-southeast and considerable block faulting is suggested. The most consistent joint sets have attitudes of N 25° E by 70° NW and N 50° W by 70° SW. Locally sheared zones up to 30 feet wide with quartz veins and minor associated chalcopyrite and pyrite occurring parallel to the second joint set. Primary foliation is locally well developed. It strikes northwesterly and dips at shallow to moderate angles to the southwest.

# (c) Alteration

The most widespread alteration is extreme chloritization of amphibole and extensive epidotization of plagioclase. Juhas believes the alteration to be deuteric and thus there is no reason to expect associated concentrations of sulphide minerals in the quartz diorite pluton. It is believed that sulphide mineralization represents one of the final phases in the history of the pluton. Therefore, residual quartz and sulphide minerals were injected into the sheared zones in the already consolidated and deuterically altered quartz diorite.

#### MINERALIZATION AND ORE CONTROLS

Pyrite and chalcopyrite are the predominant sulphides. Secondary chalcocite occurs locally and occasional molybdenite has been seen. Assays for molybdenite in the best mineralized sections averaged less than 0.01% MoS<sub>2</sub>.

Surface mapping shows copper mineralization in widely separated localities, but it is nowhere abundant. It is usually observed as occasional malachite films on joint or shear planes, and as blebs of chalcocite in quartz veins. The main showings in the area (i.e. Adit zone, Polyanna showing, and southwest of Granite Lake) generally represent sheared zones which have been invaded by quartz veins and associated sulphides. In the adit zone massive concordant pyrite bands up to 2 feet in width occur in schistose rocks.

Sulphide mineralization is apparently controlled by foliation, and drill results have indicated that better concentrations of sulphides are localized within sharp warps in the foliation such as that occurring in the immediate vicinity of the adit. This concept was supported by drilling results in 1966.

#### EXPLORATION RESULTS PRIOR TO 1967

Prior to 1966 exploration was restricted to a relatively small area adjacent to the adit. In 1962 Keevil Mining conducted a program of mapping, soil sampling, and I.P. which covered an area from 12 W to 44 E and from 44 N to 16 S on the present grid. The only significant results were two large geochemical anomalies lying 2,000' and 4,500' east of the adit.

In 1963 Huntec Ltd. carried out another I.P. survey, this time restricted from 8 W to 12 E and from 10 N to 10 S. They discovered a narrow anomalous zone that broadened to the west. It was on this anomaly that Gibraltar Kines commenced their 1966 drilling program. Cominco optioned Gibraltar's property during the drilling of holes B-19 and B-20 and the 1966 Gibraltar-Cominco drilling program indicated a mineralized zone of approximately 14 million tons grading 0.5% Cu.

Also in 1966 Cominco conducted geological mapping and geochemical surveying which covered approximately 75% of the Gibraltar property, as well as I.P. surveying in the adit area (45 N to 20 S and 40 M to 64 E). Mapping turned up no areas of apparent promise, but the I.P. survey indicated several anomalous zones in the adit area. Holes C-30, C-31, C-34 and C-35 were drilled to test I.P. anomalies but failed to encounter significant copper mineralization. The geochemical sampling located scattered anomalies reflecting the sparse copper mineralization observed in outcrops over a wide area. Holes C-36 and C-37, drilled to test two of these anomalies, encountered only trace amounts of chalcopyrite.

## EXPLORATION RESULTS - 1967

ment in March of 1967. Through terms of this agreement, Mitsubishi (provided an initial 397,000 for) the second stage field program. In return, a new company to be formed at a later stage would issue 60% of its authorized common shares to Cominco-Mitsubishi (Cominco-36%, Mitsubishi 24%) and 40% to Gibraltar.

\*\*Gibraltar\*\*

\*\*Gibralta

Several phases were involved in the 1967 program, the first of which consisted of drilling in the immediate adit area with the objective of expanding known reserves. As results from this work were essentially negative, drilling was suspended in favour of undertaking a search for new centres of mineralization which might occur elsewhere on the property.

The existing grid system was expanded with the cutting of an additional 63 miles of line. This grid was used for an extensive I.P. survey with local supplementary magnetometer and geochemical coverage. It was also used as a survey control for subsequent claim location checks and fill in staking.

The I.P. survey, contracted by McPhar Geophysics, covered the remaining areas of the property not surveyed in 1966. Magnetometer and geochemical surveys were carried out mainly on a spot check basis in areas of significant I.P. response. Geochemical sampling was done partly to fill in and substantiate sampling done in 1966.

A second stage of drilling was then initiated on the basis of geophysical and geochemical results with consideration being given to known geology.

The various phases of work are described below in more detail:-

## (a) Drilling - First Stage

An attempt to extend the adit zone involved the drilling of holes MM-1 to MM-6, inclusive, which were collared in a rough semi-circle to the north and east of the adit. A total of 2,412 feet was completed but no intersections of sufficient length or grade were obtained to expand the known reserves: The best intersection was 60 feet of 0.30% copper in MM-1, although a 10 foot section of 0.43% copper was encountered in MM-1, and a 10 foot section of 0.43% Cu in MM-2.

#### (b) Line cutting

Line cutting in 1967 was an extension of the grid existing in the vicinity of the adit. Base lines were run N 45° W, and cross lines perpendicular to them. Base lines and important connecting cross lines were guided by transit and picket, a combination that gave maximum speed and reasonable accuracy. Cross lines were turned off with the transit and run by picket. A compass was used where picket lines intersected a tree of merchantable size. This combination of techniques gave reasonable accuracy and good control on subsequent mapping and surveying. A total of 63 linemiles was added to the grid in 1967.

# (c) I.P., Magnetometer and Geochemical Surveys

The 1967 I.P. survey was carried out using a McPhar frequency type system. Lines were run NE-SW at 1,000 foot spacings, and measurements taken at 500 foot electrode intervals with three receiver readings from each transmitter location. (i.e. n-1, 2 and 3). In addition several intermediate lines were surveyed to detail the stronger anomalies and the more interesting features were checked with 200 foot electrode intervals.

Anomalous effects were measured on every traverse. They ranged from very broad weak zones to narrow strong features. Although there are several isolated anomalies, the major responses could be correlated into six main zones.

Magnetometer surveying was carried out on a spot check basis as I.P. results were obtained and several profiles were run over the adit area for purposes of comparison. Magnetometer stations were spaced at 100 foot intervals and in all, 18 line miles were covered.

Geochemical sampling was also conducted over areas of interesting I.P. response, to fill in and substantiate sampling carried out in 1966. Samples were taken at 100 foot intervals on the grid system. Several anomalies were defined in the nine line miles that were sampled.

On the basis of the combined I.P., magnetometer, and geo-chemical results, plus a study of the availabel geological data, a second stage of drilling was initiated.

## (d) <u>Drilling</u> - Second Stage

# (1) <u>I.P. Zone A</u> (10E to 40E, 30S to 55S)

McPhar recommended a drill test on line 35E, with an inclined hole to pass under 51S at a vertical depth of about 200 feet. They suggested that the weak anomaly could have been caused by three alternatives:-

(i) minor metallic mineralization

(ii) rock type change (granite to skarn)(iii) altered mineralized granite similar to the known copper

Three holes were collared to test Zone A. MM-11 encountered pyrite of sufficient quantity to explain the anomaly in that area (40E, 31S) but holes MM-12 and MM-13 failed to reach bedrock after encountering up to 160' of overburden.

# (2) <u>I.P. Zone B</u> (50E to 100E, 30N to 45N).

Located near Granite Lake, this zone was suggested to be the extension of a silicified zone indicated by the Cominco I.P. survey of 1966. Drill hole MI-9 tested this zone at 90E, 33N. The best intersection was 20 feet of 0.27% Cu. Silicification was very predominant throughout the length of the hole.

# (3) <u>I.P. Zones C-1 and C-2</u> (80E to 150E, 85S to 95S; and 115E to 170E, 65S to 75S)

These are parallel and 1,000 to 1,500 feet apart. On the basis of I.P. and magnetometer information and a limited amount of geological information, McPhar concluded that both features were in the skarn series at or near the contact with the granite rocks to the northeast. Three holes were recommended. In the spring of 1967, Earlcrest had drilled a hole on a two-claim group in the area of "C-2". They encountered chlorite schist with heavily disseminated pyrite but only negligable amounts of chalcopyrite. Hole MM-8 was drilled to test the more promising C-1 zone. It encountered graphite and graphitic black shale followed by fault gouge and diorite.

This intersection indicates that the I.P. response arose from the highly sheared graphitic sedimentary rocks at or near the contact with the diorite mass. The parallel alignment of the I.P. anomaly with the inferred extension of the Fraser River Fault system passing through Cuisson Lake adds support to this interpretation.

# (4) Zone D (120E to 150E, 135S to 147S)

This area is underlain by Tertiary basalt, and the I.P. response was interpreted to originate below this capping. Drill hole IM-10 entered a clay bed at least 100' in thickness after passing through 176 feet of the overlying basalt. Due to drilling difficulties caused by the clay, the hole was abandoned prior to reaching the underlying bedrock surface. It now appears more probable that the I.P. response was caused by the clay bed rather than by miheralization at a lower depth.

# (5) Zone E (170E-190E, 95S-110S)

Apparently this zone is controlled by the assumed fault structure responsible for the topographic low through Cuisson Lake. For this reason, and as a large part of the anomaly is located outside the Gibraltar claim boundary, Zone E was not drill tested.

In addition to the holes drilled on the basis of 1967 I.P. information, one final hole (MK-14) was drilled back in the vicinity of the adit zone to test a Cominco 1966 I.P. anomaly. This hole, like MK-1 to MK-6, was an attempt to expand the known reserves but only scattered copper mineralization was encountered with no section grading over 0.25 Cu.

In the second stage drilling a total of 2,283 feet was completed in 8 holes.

GIBRALTAR PROPERTY
1967 DRILL HOLE SUMMARY

						Inter	sec	tions		
Hole No.	Location	Elev.	Bearing	Dip	Depth			To	Length	% Cu
MI-1	4+00\( \text{V} \) 0+00\( \text{N} \)	2787	-	<b>-</b> 90°	401	76.5 130 110 180	-	96.5 150 170 190	20 ' 20 ' 60 ' 10 '	0.27 0.39 0.30 0.43
MM-2	4+00W 4+00N	2877	-	<b>-</b> 90°	392 <b>'</b>	300	-	310	101	0.43
MM-3	0+00W 4+00N	2853	-	<b>-</b> 90°	4031	307		311	41	0.41
MM-4	4+00E 4+00N	2858	<b>-</b>	<b>-</b> 90°	4071	310	-	<b>330</b>	201	0.28
MM-5	7+65E 4+00N	2913 .	-	<b>-</b> 90°	399¹	274 <b>37</b> 3	-	287 375	13 <b>'</b> 2 <b>'</b>	0.27 0.29
MI-6	8+15E 0+00N °	2871	<b>-</b>	<b>-90°</b>	4101	270 312 330	 	290 318 350	20 ° 6 ° 20 °	0.23 0.32 0.27
•	20+00E 91+50S	2569	N45°E	<b>-</b> 45°	104'	Did no	t r	ea <b>c</b> h b	edrock.	
	20+00E 90+20S	2559	N45°E	<del>-</del> 60°.	400'	No sam	pli	ng war	ranted.	
	904-00E 33+00N		N45°E	<b>-</b> 45°	4021	234 304.5 389	-	254 306.5 400	20' 2' 11'	0.27 0.24 0.23

continued....

				-7-		Intersections		
Hole No.	Location	Elev.	Bearing	Dip	Depth	From To	Length	% Cu
.MI-10	140+00± 146+25\$	` enq en	N 45° E	<del>-</del> 45°	319.5	No sampling wa	arranted.	
MI-11	40+00E 31+00S	<b>.</b>	N 45° E	<b>-</b> 45°	351'	341 - 351	10'	0.21
MM-12	35+00E 54+00S		N 45° E	<del>-</del> 45°	143'	Did not reach	bedrock.	
MM-13	35+00E 51+00S			<b>-</b> 90°	160'	Did not reach	bedrock.	
MI-14	0+00E 3+50S	2768	N 45° E	<b>-</b> 45°	404	170 <b>–</b> 180 265 <b>–</b> 275 360 <b>–</b> 370	10' 10' 10'	0.20 0.20 0.20

### (e) Claim Surveys

The confusion caused by the large number of overlapping claims and intervening open fractions on the Gibraltar property necessitated a thorough ground survey and document search to adequately determine the actual claim boundaries. This involved locating the posts in the field and tying their position into the nearest picket on the grid system by either pace and compass or chain and compass. These locations were then plotted and the claim boundaries established by referring to the actual record forms issued for the claims involved. The work revealed that several claims were all or in part invalid due to prior staking, and also several internal fractions were discovered. Although most of these fractions were subsequently staked by Cominco personnel, others are still known to exist.

The Gibraltar property currently comprises a total of 220 claims of which 193 are held by Estey Agencies Ltd. and/or Gibraltar (P.T. Bowes). The remaining 27 claims were staked by Cominco in 1967 and presently are recorded in Cominco's name.

However, due to prior claim locations by outside interests and/or Gibraltar there are in fact 27 claims in the above 193 group which are apparently invalid and which probably will be allowed to lapse after further consultation with Gibraltar Mines.

#### ORE RESERVES

Work carried out in 1967 did not increase the known reserves, all of which occur in the general adit area. The main sulphide body is a tabular lens of eliptical outline measuring approximately 1,900 ft. X 700' X 120'. There are also several smaller overlapping zones of mineralization which underlie the main zone. These zones strike northwesterly and dip about 25° to the southwest. In addition there is a small deposit in the immediate area of the adit which measures approx. 400' X 150' X 100'.

Total reserves of the main zone plus the small deposit at the adit are approximately 14 million tons, grading 0.5% Cu, with an open pit strip ratio of roughly 4:1. Of this 14 million ton reserve, a total of 1.2 million tons grading 0.65% Cu would be available at a strip ratio of 1:1 and a total of 3.7 million tons grading 0.61% Cu at a ratio of 2:1. (A reserve of 0.5 million tons grading 0.60% Cu is available in the immediate adit area at a stripping ratio of less than 1:1).

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Mo properties in B. C. are currently operating with the grade mentioned above, with stripping ratios approaching even 1:1. Granisle, with a comparable grade, is operating on a stripping ratio of 0.15:1.

The total reserve reported above could be increased by including the mineralization underlying the main zone, but to do so would increase the already high strip ratio, and also decrease the average grades. These underlying zones are open for extension to the northwest but their projection in this direction would almost immediately take them beyond the limits of the Gibraltar claims.

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### CONCLUCIONS

The only area of significent copper minoralisation discovered to date on the Gibraltar property is the general adit some and its projected extension to the northwest.

The entire property has now been covered by geological mapping, geochemical soil sampling, and induced polarization surveying. Areas of possible interest have been further covered by magnetometer and the most promising targets drill tested without success. Although several small I.P. anomalies have not been tested, the negative results obtained from the larger anomalies discourages any further work of this nature.

It is concluded that no further work by Cominco on the Gibraltar property is justified at this time.

### ATTACHIENTS

(1)	Location Map of Gibraltar Mines	1" = 4  mi.
(2)	Tenure file - as of December 11, 1967	
(3)	Compilation Sections of Holes MM 8 - NM 13	1" = 200"
(4)	Gibraltar Mines - Claim Location Map	l" = 1000'
(5)	Gibraltar Mines - Geological Map by A.P. Juhas	l" = 1000'
	Gibraltar Mines - Geochemical Map	$l^{n} = 1000^{n}$
(7)	Gibraltar Mines - Magnetoneter Survey	1'' = 1000'
(8)	Gibraltar Mines - Induced Polarization Survey	l" = 1000°
(9)	Drill Hole Logs (MM 1- MM 14) with sections	1" = 1000"

#### REFERENCES

- (1) Coology of the Gibralter Hines Property, Neleose Lake, B. C. by A. P. Juhas, 1966.
- (2) Geophysical Report, Induced Polarisation and Recistivity Surveys, Gibralter Hines Property, by G. D. Tildanen, 1966.
- (3) Report on Induced Pelaxisation and Reciptivity Survey of the Gibraltan Hines Property, McLeese Lake Area, B. C. by Hellan Geophysics Ltd., 1967.
- (4) Geological Report, 1966 Emploration Cibraltar Minou Property by D. W. Hoddle, March 13, 1967.

Report by Mak Murrell

Endorsed by J. Richardson

MRH: mk

December 15, 1967

Distribution:

Gibraltar Mines (1)

Mitsubishi Metal Mining (2)

Montreal Explin. Files (1)

Western District Explin.
Cominco Sr. Geophysicist (CDT)

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### GIBRALTAR

# CLAIM DATA AS OF DEC. 11, 1967

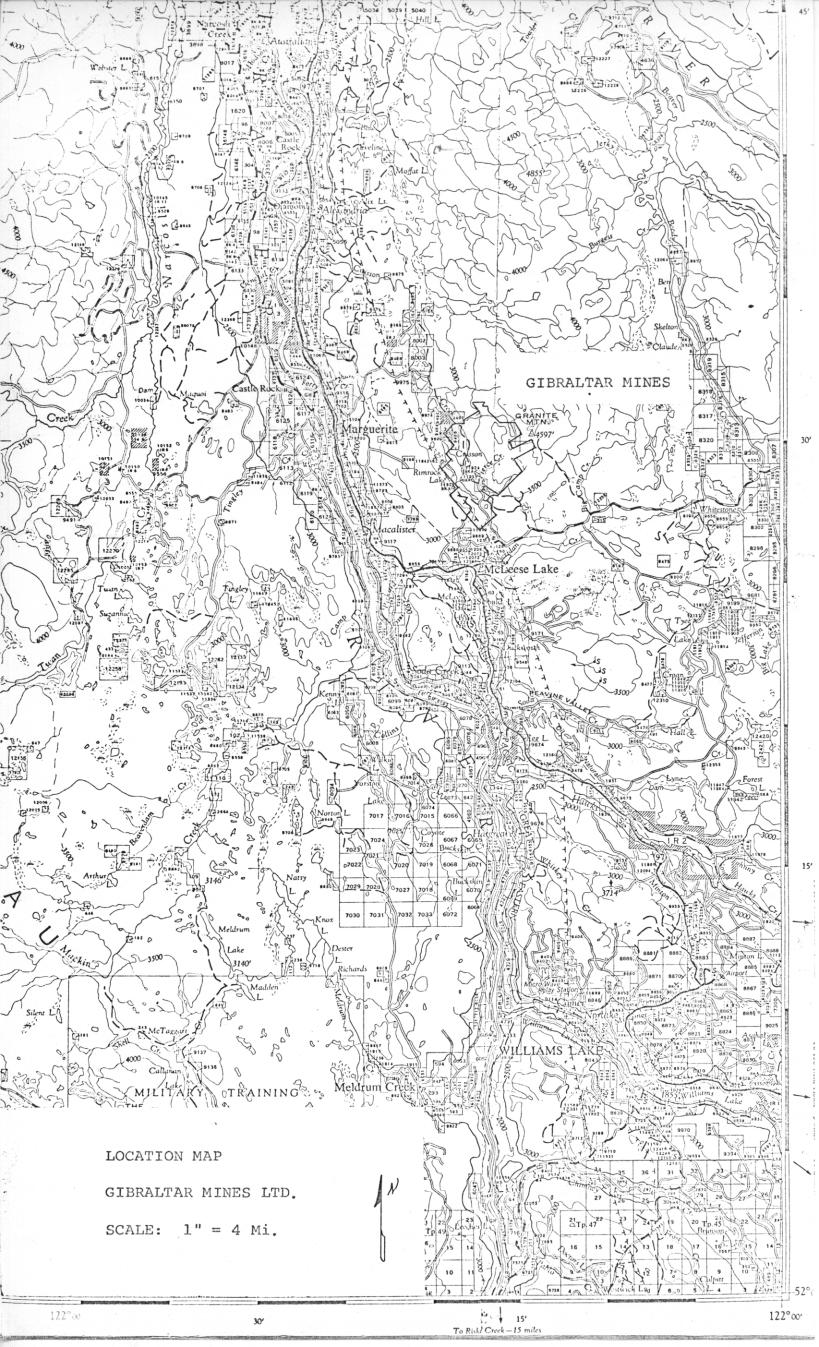
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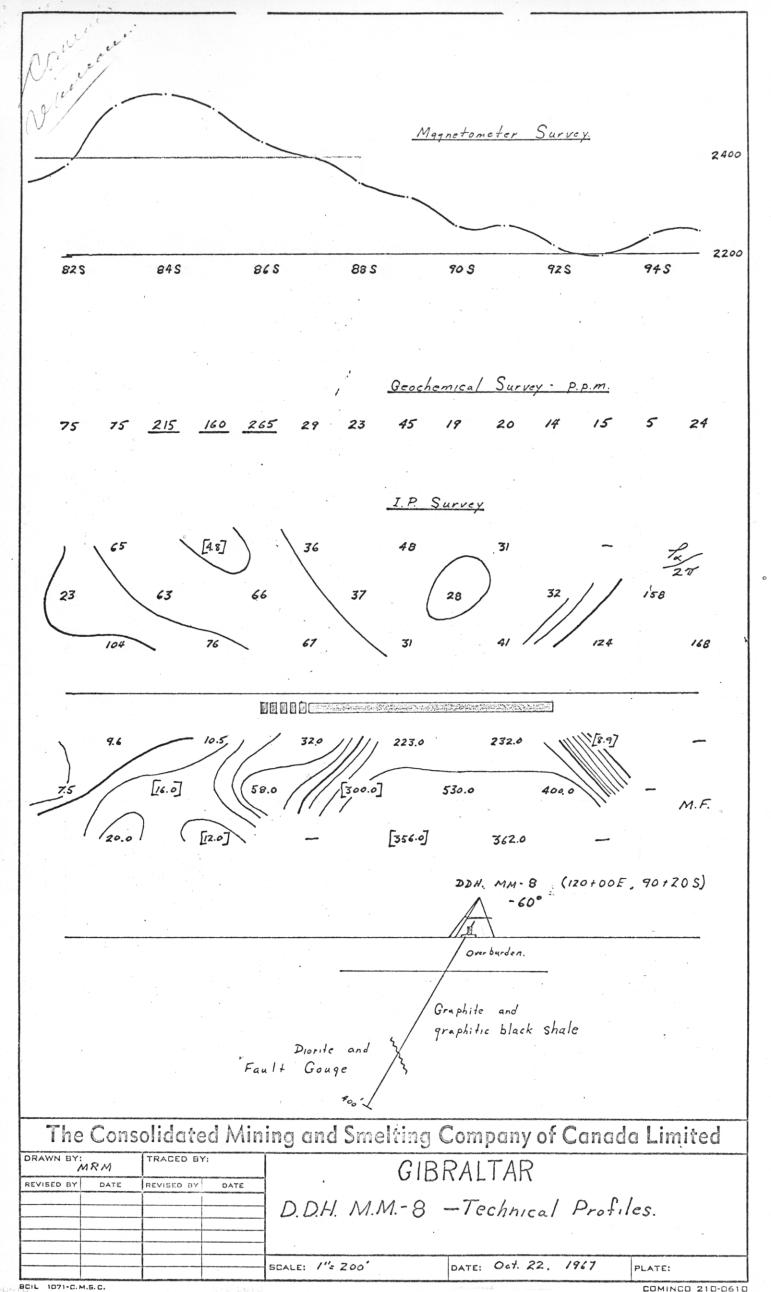
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Al 20
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Al 21 Fr.
                    526829
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Al 22 Fr.
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Al 23 Fr.
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Al 24 Fr.
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IT 3
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IT 4
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IT 5
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IT 6
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IT 7
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IT 8
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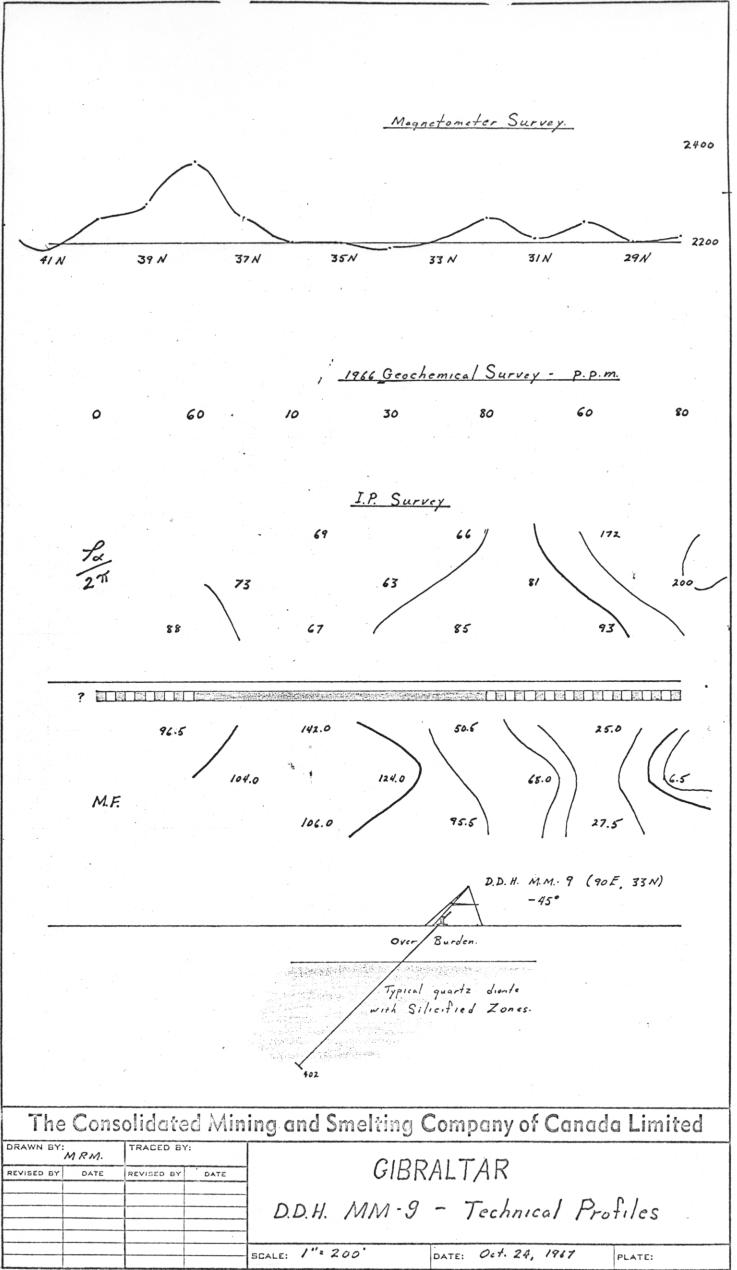
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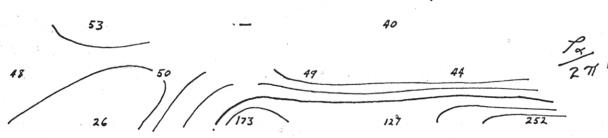


No Magnetometer Survey carried out over this area.

134S 136S 138S 140S 142S 144S 146S

No Geochemical Survey carried out.

I.P. Survey



D.D. H MM- 10 (140 E, 1461255)
-45°

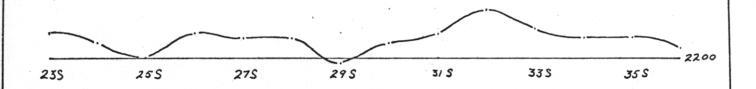
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The Consolidated Mining and Smelting Company of Canada Limited

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		SCALE: /": 200°	DATE: Oct. 24, 1967	PLATE:



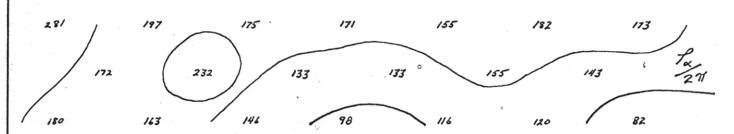
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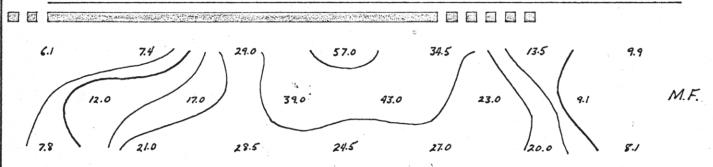


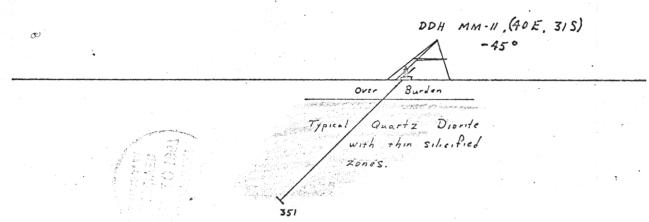
Geochemical Survey - p.p.m.

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I.P. Survey





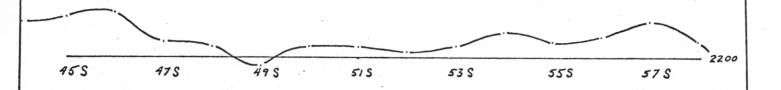


The Consolidated Mining and Smelting Company of Canada Limited

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Magnetometer Survey

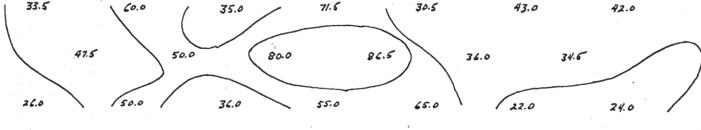
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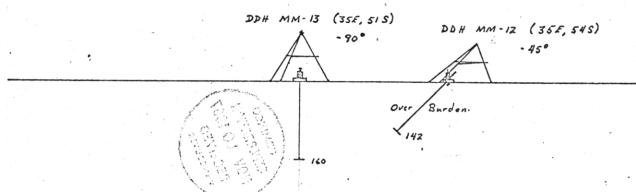


Geochemical Survey . p.p.m.

I.P. Survey.







The Consolidated Mining and Smelting Company of Canada Limited

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