

DOMINION GULF COMPANY

908 BAY STREET
TORONTO 1, ONTARIO, CANADA

E. W. WESTRICK DEHERAL AGENT IN REPLY REFER TO:

November 19, 1948.

Mr. H. C. Rickaby, Deputy Minister of Mines, Department of Mines, Queens Park, Toronto, Ontario.



1116NW0057 0019 AFTON

Dear Mr. Rickaby:

A block of 81 claims from S-50312 to S-50392, inclusive, was staked in Afton Township late in December, and recorded at Sudbury on December 23, 1947. The adjoining block of seven claims from S-50627 to S-50633, inclusive, was staked and recorded at Sudbury on February 19, 1948. A third block adjoining the others and consisting of six claims from S-51018 to S-51023, inclusive, was staked and recorded at Sudbury on May 10, 1948.

Our attention was drawn to this area by our reconnaissance airborne magnetometer survey. The original staking was done on the strength of the results of this preliminary survey.

After the first block was staked, a ground magnetic survey was run at profile intervals of 1320 feet. At the same time, additional airborne magnetometer profiles were flown over chosen locations to aid the more detailed interpretation of the area.

During the past summer, a rather extensive geological survey was made over the entire block of claims and their immediate environs. The general geological problem involved here is one of a rather regional nature. The main magnetic feature was very broad and it was believed that close profiles were not necessary to define it. This was borne out in the few places where close spacing has been done.

The above geophysical and geological work is covered in three reports with associated maps which are attached.

l. Aero-magnetic interpretation prepared by Mining Geophysics Corporation, Limited, covers the airborne magnetic survey over this area. Anomaly "A" mentioned in their report refers to an aeromagnetic anomaly obtained over the iron formation known to the east of this area. The accompanying map at 400° per inch shows the approximate location of the original claim block with respect to the 010

airborne magnetic anomaly.

- 2. Ground magnetic interpretation as prepared by Mining Geophysics Corporation, Limited, covers the interpretation of ground magnetic survey. A geophysical map at 400° per inch accompanying this report combines the original ground survey data and the subsequent ground magnetic data.
- 3. Geological report covering the geological survey was prepared by Mr. G. E. Parsons who was in charge of the survey. His geological map at 400' per inch covering claim block in the immediate environs is attached.

During the spring of 1948 several diamond drill holes were bored. One of these holes is being reported at this time for assessment credit. The details of this hole are shown on a separate sketch and the log of the hole is supplied as evidence. The core was logged by Ivan Christopher, geologist for Mining Geophysics Corporation, Limited.

Supporting reports for the airborne survey, the ground geophysical survey and the geological survey follow in this order. A copy of the diamond drill log follows the above reports. Maps supporting the above reports are attached as follows:-

1. Airborne Survey.

1 map at 400' per inch covering the claim block.

2. Ground Magnetics.

- 1 map at 400° per inch covering the claim block.
- 1 detailed map of claim S-50388.

3. Geological Survey.

- 1 map at 4001 per inch covering the claim block.
- l detailed map of claim S-50388.

4. Diamond Drilling.

l location map of claim S-50388, showing details of diamond drill hole #5.

WORK DISTRIBUTED ACCORDING TO GROUPS OF CLAIMS FOLLOWS

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Ground Magnetic Measurements	240		240	•			900	
Ground Geophysical Interpretation	348		348	***	•••		***	
Field Geology Geological Interpretation)	908) 221)		•••	1057	72	*	•••	
Airborne Magnetic Survey and Interpretation	444	*	444				•••	
Diamond Drilling	_378		### ##################################				378	
Total Days Per Group	•		1802	1783	72	ı	378	;
Average Per Claim in Groups			204	202	12		42.0	

Group 1 includes: Claims S-50312 through 8-50392 inclusive.

Claims S-50627 through 8-50633 inclusive.

Total 88 Claims.

Group 2 includes: Claims S-51018 through S-51023 inclusives.

Total 6 Claims.

Group 3 includes: Claims S-50389, S-50388, S-50387, S-51020, S-51021, S-51018,

8-51022, 8-51023, 8-51019.

Total 9 Claims.



	BOPHTS. GEOLOG. DIAMOND DRILLING. TOTAL.
S-50627 through S-50633)	
S-50312 through S-50386) S-50390 through S-50392)	20.4 20.2 40.6
S-50387 through S-50389	20.4 20.2 42.0 82.6
S-51018 through S-51023	12.0 42.0

According to the above list, two years assessment credit is being asked for the three claims S-50387, S-50388 and S-50389. One years credit is being asked for on all the others.

Respectfully submitted,

E. W. Westrick,

General Agent, Dominion Gulf Company.

EWW/fr



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INTERPRETATION OF AEROMAGNETIC SURVEY OF CENTRAL AFTON CLAIMS

for

Dominion Gulf Company

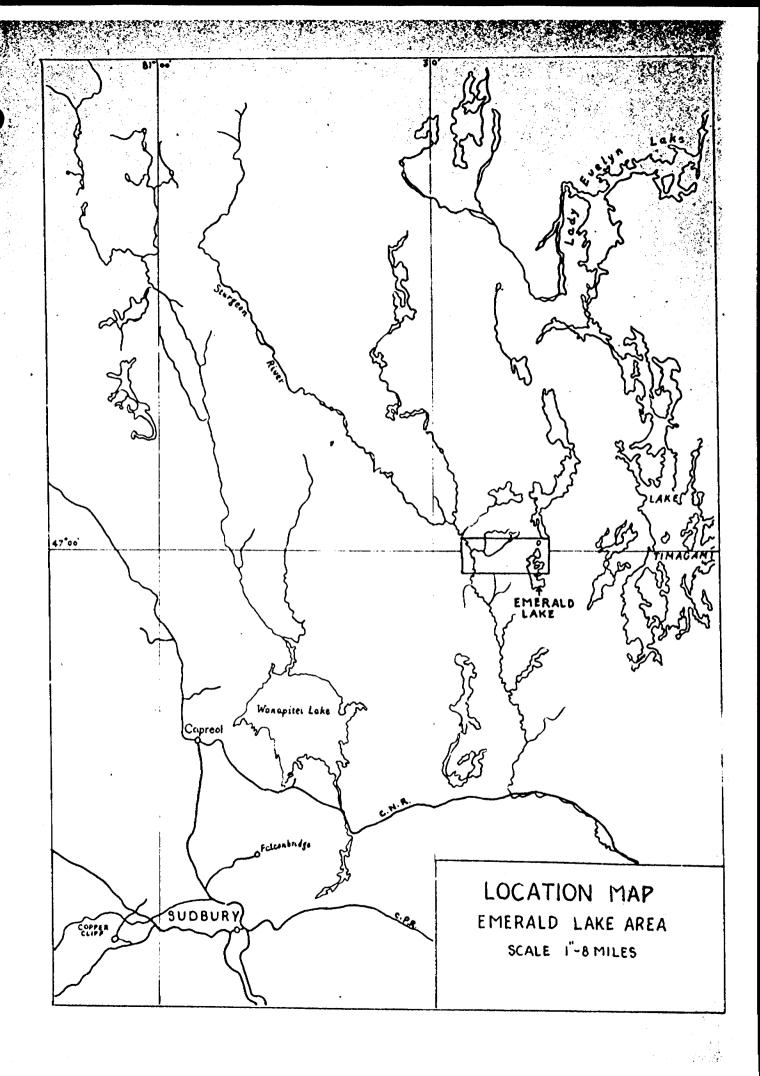


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INTERPRETATION OF ABROHAGNETIC SURVEY OF

Central Afton Claims

for

Dominion Gulf Company

SUMMARY

A survey of the Gulf claims in Afton Township, made with an airborne magnetometer indicated a large magnetic anomaly trending in a general east-west direction across the property. This anomaly has been interpreted as being caused by folded Keewatin iron formation bands underneath the flat-lying Cobalt and Keweenawan rocks which overlie these older Keewatin formations.

Folded iron formation southeast of the Gulf claims is the host rock for gold-bearing quartz voins at the New Golden Rose mine.

Estimates of the depth to the interpreted iron formation at B indicate that the iron formation is 300 feet below surface.

It is recommended that a magnetometer survey be carried out in an attempt to outline more precisely the structure suggested by the aerial results. It is further recommended that an exploratory hole be drilled to check the interpretation, and aid in evaluating the economic possibilities.

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INTRODUCTION

The Central Afton property of Dominion Gulf Company is composed of 88 claims in Afton Township, Sudbury District, Province of Ontario. This property was surveyed with an airborne magnetometer in the summer of 1947.

CHARACTER OF THE REGION

Afton Township is in a rather remote section of the Timagami Forest Reserve. Great stands of red and white pine cover much of the region, although timbering operations are already showing their effect.

Topographic relief in Afton Township is a maximum of 750 feet with many hills two or three hundred feet high.

A motor road leads from North Bay to the New Golden Rose Mine and lumber camps on the east side of Emerald Lake in Afton Township.

PREVIOUS WORK IN THE AREA

The area attracted interest toward the end of the last century, after it was recognized that the Sudbury copper and nickel are associated with a diabasic type of rock. The discovery of silver with diabase at Cobalt in 1904 resulted in further interest in the rock. During this period general geological mapping was carried out by the Federal Government; most of the area has not been studied since.

Gold was found at Emerald Lake before 1900. A company was formed in 1909 and along with various successors made several attempts at production. It was not until 1934, however, that much progress was made. The Consolidated Mining and Smelting Company undertook development, and between 1937 and 1941 produced \$ 1,664,464 in gold from 144,237 tons of ore. Thus the grade was about \$ 11½ in gold per ton.

FIGURE 1 - DEPTH OF ANOMALY "B".
ASSUMING LINE POLE: 8000 PEAK INTENSITIES PEAK INTENSITIES DEPTH - INFEET ELEVATION-IN FEET

ADDITION OF TWO "A" ANOMALIES TO POUBLE THE ANOMALY WIDTH.

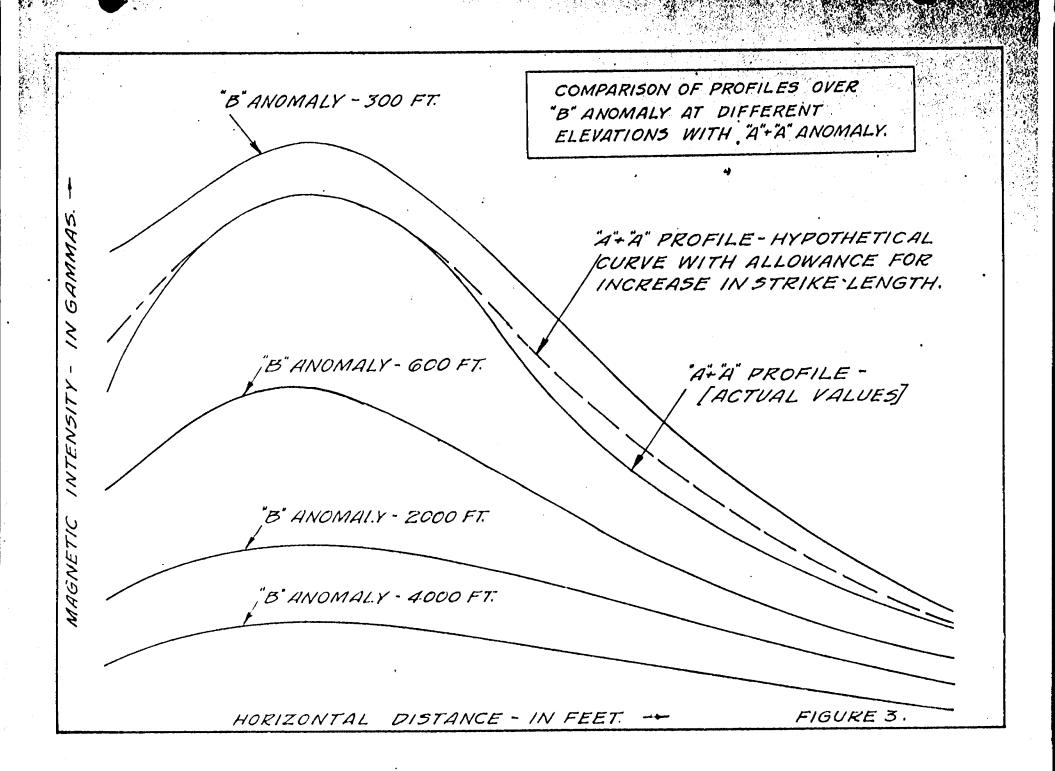
PROFILE - "A" ANOMALY MOVED 2000 FT. WEST.

PROFILE - "A" ANOMALY

RESULTING "A" + "A" ANOMALY PROFILE.

HORIZONTAL DISTANCE - IN FEET

FIGURE 2.



Production ceased in 1941 (the mill stopped in May, the mine in September), and much of the mill machinery and other equipment was shipped to the Pindri Lake mercury deposits in British Columbia. The reason for closing is not known.

Numerous pits have been made in the iron formation between Emerald and Eagle Rock Lakes, all showing pyrite and some gold.

within the past few years a zone of pyrrhotite and chalcopyrite has been stripped and surveyed by magnetometer, 12 miles southeast of the New Golden Rose. The owners are reported to be planning a diamond drill campaign.

In 1936 E. S. Moore examined parts of Afton and Scholes
Townships. His report (Geology of the Afton-Scholes Area) appears in
the Annual Report of the Ontario Bureau of Mines, Vol. 45, Part VI, pp. 38 48. No later work has been published.

GENERAL GEOLOGY

The Afton-Scholes area is underlain chiefly by the north half of a huge diabase sill remnant. This rock is believed to be of late Precambrian (Keweenawan) age. Its thickness is undetermined, but at least 250 feet is known to occur in places. It usually forms great plateaulike hills which are a prominent feature of the topography.

The next most abundant surface rock is the Cobalt sedimentary series consisting of conglomerate, greywacke, and quartzite. The diabase intrudes this formation, as if by preference, particularly at or near its base. Like the diabase sill, the Cobalt sediments lie within a few degrees of horizontal. Both the above types are younger than the gold deposits, so they must cover many places of economic value in Afton-Scholes and elsewhere.

On the Afton-Scholes boundary between Emerald and Eagle Rock Lakes, is a small "window" of early Precambrian rocks. It is in these that the main ore possibilities lie. In general, these early rocks are grouped as follows:

Keewatin:

Altered greenstones and schists outcrop in several places. The rock is steeply folded and is typical of the Keewatin in other areas.

Iron formation is very abundant, having been observed here in widths up to 250 feet. It is very magnetic due to a content of 15 to 50 percent magnetite. A piece of solid magnetite weighing 8 pounds was collected. Beautiful banding is due to interbedded red jasper and hematite. Some of the siliceous bands are quite porous, a feature Moore considers favourable to the passage of ore solutions. In connection with the iron formation, Moore states: "In places hematite and magnetite are almost sufficiently abundant to make a low-grade iron ore".

Timiskaming:

Conglomerate and greywacke of this age are closely associated with the banded iron. Moore believed these rocks form the basins of the larger lakes in the area due to their ease of weathering.

Algoman:

Feldspar porphyry occurs in several long narrow dikes at the New Golden Rose, and in larger intrusives to the east, between Emerald and Eagle Rock Lakes. There are gray and reddish varieties. It is generally believed that the ore-bearing solutions are related genetically to these intrusives, so their presence is significant.

All known outcrops on the Afton claims are part of the diabase sill indicated above.

GEOPHYSICAL SURVEY

The aeromagnetic data obtained by using an airborne magnetometer at an elevation of 500 feet was plotted from points identified on aerial photographs using strip photographs taken during the flight. These points were transferred to a base map prepared from a mosaic of aerial photographs, and the whole enlarged photostatically to a scale of 1" - 400° for purposes of interpretation.

GEOPHYSICAL INTERPRETATION

The steep dipping, older Precambrian rooks of the property are overlain by flat lying younger Cobalt sediments and Keweenawan diabase. Aeromagnetic readings would be governed to some extent by the thickness of diabase and by the magnetic character of the older rocks underneath the diabase.

Because of the rugged topography it was not feasible to fly at a constant elevation above ground. Moreover, the early Precambrian formations beneath the Cobalt and Keweenawan have an unknown topography. Therefore, the aeromagnetic data plotted on the final mapde not bear any fixed relationship to surface topography or to Archean topography.

DISCUSSION OF GEOPHYSICAL RESULTS

The "B" anomaly appears to be the most interesting from the economic viewpoint. In pursuing a study of this anomaly, the most relevant material available is the contour map prepared from the magnetic results obtained at 500' elevation.

Due to peculiarities in the instrument, such as time lag, the accuracy of this map is somewhat questionable. It is definite, from the study of similar maps in other areas that time lag in the instrument is notionable in large abrupt anomalies. In this case the anomaly is rather broad. The effect is to decrease the magnetic gradient on the approach,

displace the poak in the direction of flight, and increase the gradient on the far side of the anomaly. The peak value may also be decreased. These results indicate a combination of time lag and attenuation. No attempt has been made to determine the magnitude of these errors or separate the two factors, but they are believed to be small.

A study of the direction of flight in the vicinity of "B" anomaly, however, would indicate that these facts are partially responsible for the strike and spacing of magnetic contours. There is a definite narrowing of the contours between "B" and "C" anomalies, which may not be entirely real, but which does appear to be due chiefly to a thinning of the magnetic zone. A study of the profile across "B" anomaly indicates a greater breadth than "A". Since "B" is a continuation of "A" some form of folding or faulting is suspected in this area. There is little doubt that the contours give a pseudo-strike to "B" anomaly. This would tend to make calculated depths greater than the actual depth to the body or bodies causing the anomaly.

A depth is found in Figure 1 by using the peak value of "B" anomaly obtained at 4,000', 2000', 500' and 300' elevations. If "B" anomaly approaches the condition of a line source, a straight line relationship should exist between elevation and the reciprocal of the peak values. This relationship seems to exist, and a depth of 1700' is indicated. This depth is believed to be false and indicates, as has been noted from other examples, that the instrument would appear to be affected at higher altitudes by sources of great apparent depth. An empirical estimation of depth is made in the following paragraphs by a comparison of profiles.

A ground magnetic profile over "A" anomaly indicates the probable width of the zone causing the anomaly. A study of the aeromagnetic

profiles obtained by flying over "B" anomaly at 300' and 500' elevations indicates that "B" anomaly is about twice as wide as "A" anomaly.

anomaly profiles were placed side by side and added. This produced a profile "A + A" in Figure 3 which would be the result of a body having the width of "B" anomaly, but not the strike length. This is a simplified approach which accounts for the results. Figure 3 shows profiles at elevations of 4,000', 2,000', 600' and 300' over "B" anomaly, as well as the theoretical "A + A" profile. The profiles over "A" anomaly were obtained by flying at 450' elevation. If the 300' profile over "B" anomaly were to agmeexactly with the theoretical profile "A + A", the depth would be of the order of 150'. From a comparison, "A + A" seems to have a steeper gradient. Thus, the 300' profile should appear below the "A + A" profile in Figure 3. This would add roughly 150' to the depth, giving a depth of 300' \(^2\) 100.

There is the additional information that, at 500°, "A" anomaly appears as one anomaly, but at 300° it is partially resolved. The 300° profile over "B" anomaly shows a suggestion of dividing. This would place the depth in the vicinity of 200°. "B" anomaly is, however, not the same as "A", and the depth previously given is believed to be the more accurate of the two.

GEOLOGICAL INTERPRETATION

The interpretation of the aeromagnetic results is based largely on the small "window" of early Precambrian rocks outcropping between Emerald and Eagle Rock Lakes, since in the remainder of the area, flat lying Cobalt sediments and Keweenawan diabase conceal the older Keewatin and Timiakaming rocks. The Keewatin banded iron formation at Emerald Lake (believed to be folded into a syncline with drag folds on the limbs) is

responsible for the high magnetic anomaly (anomaly "A") in this locality. Anomaly "B" to the northwest is interpreted by analogy to anomaly "A".

Sufficient information is not available at the present time to obtain a detailed picture of the structure at "B" and "C" anomalies. The greater width of "B" anomaly when compared to "A" may be due to one of several structures. Possible explanations that may be suggested would include repetition of iron formation bands by drag folds similar to the drag folds on the limbs of the syncline at "A" anomaly; repetition of iron formation bands by faulting; broadening of the major syncline due to the western plunge, possibly accentuated by vertical movement along the Emerald Lake fault.

There is a definite change in the trend of the magnetic contours, between "B" and "C" anomalies. This break in the contours has been interpreted as the result of a fault which has been located along a lineament trending north from Plum Lake. The narrowing of the anomaly between "B" and "C" and the decrease in magnetic intensity can, at present, be accounted for by a variety of interpretations as in the case of widening at "B" anomaly. The most probable interpretation on the basis of present information appears to be that the syncline rises at this point with the result that much of the iron formation has been removed by erosion.

The results of the ground magnetic survey now in progress, should make possible a more detailed interpretation of the structure in the vicinity of "B" and "C" anomalies.

When the trends of the iron formation bands have been more clearly defined, it may be advisable to stake 3 or 4 additional claims immediately west of Plum Creek.

RECOLUENDATIONS

It is recommended that plans be made to proceed with diamond drilling to explore "B" anomaly, following completion of the ground magnetometer survey. The first hole would be probably spotted on Claim No. 50335, the exact location depending on the results of the ground survey. It would be desirable to drill a nearly vertical hole, and wedge the hole after passing through the Keweenawan and Cobalt cover.

Respectfully submitted,

MINING GEOPHYSICS CORPORATION LIMITED

. C. Frantz

J. F. Nookes seedth

A.S. Scotl

Toronto, January 22, 1948. N. B. Keevil



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INTERPRETATION OF GEOMAGNETIC SURVEY

of the

CENTRAL AFTON CLAIMS

Report No. 10 - CENTRAL AFTON CLAIMS



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Figure 1 - Sketch showing possible faulting at Emerald Lake.

Figure 2 - Map showing location of "Central Afton Claims".

Figure 3 - Photograph of profile model.

MAP UNDER SEPARATE COVER

Map 1 - Geomagnetic Contour Map, scale 1" - 400', showing proposed Diamond Drill Holes, iron formation bands, faults and claim boundaries.

INTERPRETATION OF THE GEONAGNETIC SURVEY OF THE CENTRAL AFTON CLAIMS

Report No. 10.

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have been interpreted in conjunction with aeromagnetic data obtained previously. The general interpretation based on aeromagnetics has not been changed, but the greater detail of the ground results has provided a more complete picture for the recommendation of further exploration by diamond drilling. However, due to the thickness of flat-lying diabase and Cobalt sediments over the vertically lapping Keewatin rocks of interest, the iron formation bands and structure are still not accurately delineated. Three holes have been recommended over the high anomaly, in what is considered a promising zone; these should be considered as exploratory in nature.

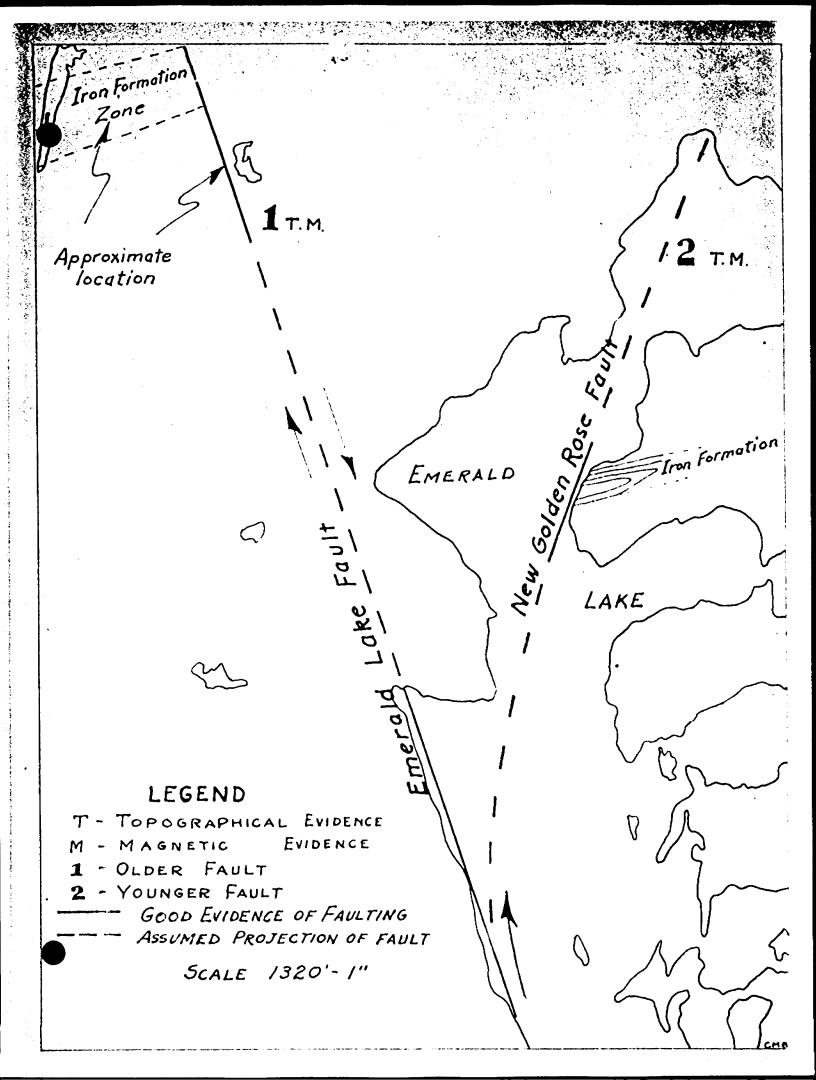
INTRODUCTION

Two previous reports (Nos. 3 and 9) have been based upon aeromagnetic work in an area west of Lake Timagami. The first was of a rather preliminary nature, and the general geological interpretation made at that time outlined the probable existence of important structural features beneath a widespread diabase sill. Further study was called for, and the results of this work appeared in the second report. Recommendations were made to stake a certain area ("B" anomaly) and acquire additional data by ground magnetometer measurements, before proceeding with drilling.

The staking and ground survey of 88 claims has now been completed, and the present report deals particularly with the ground results.

Details of location, topography, and geology are covered in the previous reports and are, therefore, not repeated here. It is interesting to note that since the last Timagami report was written, an old report of the Ontario Bureau of Eines has been read, which mentions the occurrence of greenstone on the shore of a small lake a short distance west of Emerald Lake. This is not shown on later maps, but suggests the possibility of finding Keewatin rocks in deep valleys on the property.

The present interpretation, while based primarily upon the ground survey results, takes into careful consideration all other available evidence, including aeromagnetic data, geology and topography. This report, therefore, should come nearer the truth regarding actual conditions beneath the diabase sill.



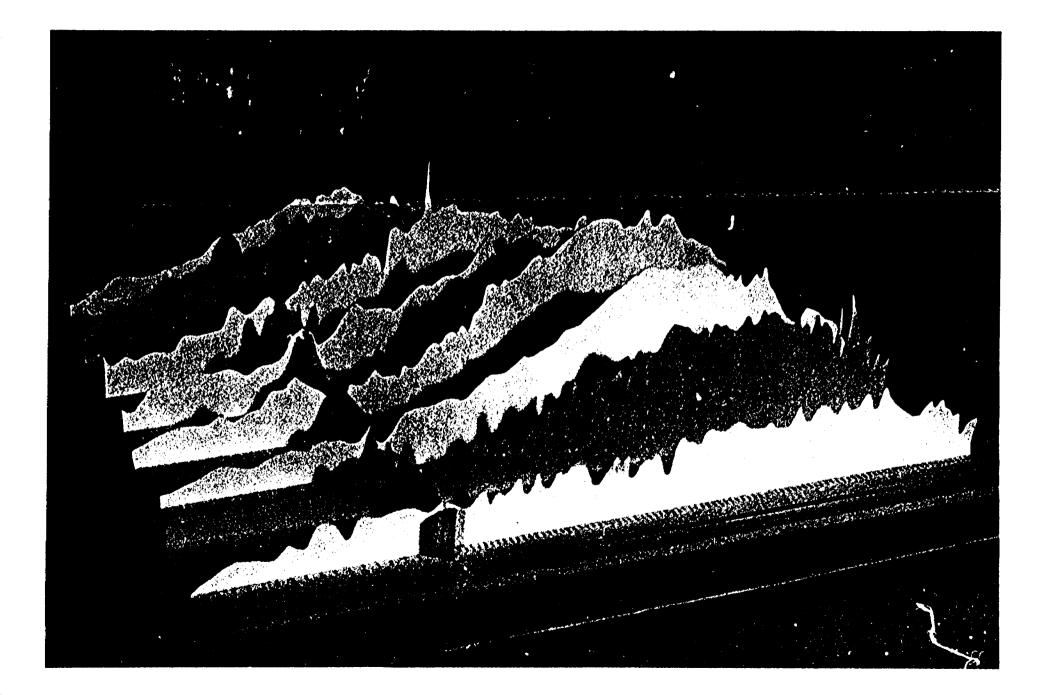
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LOCATION MAP

linch = 8 miles

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THE GROUND MAGNETIC SURVEY

Field Work:

The surface geophysical survey over the "B" anomaly area was carried out between January 6th and February 18th, 1948. Control was established by means of a base-line, cut along the east-west midtownship line of Afton Township for a total distance of 17,785 feet.

This line starts at the west shore of Emerald Lake opposite the New Colden Rose Mine. From the base line picket lines were established north and south at intervals of 1320 feet to cover the area staked. Three lines for additional detail were laid out in a north-south direction across the strongest portion of "B" anomaly.

Vertical magnetic components were measured at intervals of 200 feet, 100 feet, or at shorter intervals along the lines as required by the rate of change of the magnetic profile. Magnetic tie-ins were consistently good during the survey, and in spite of cold weather, often 30 degrees below zero, the work was completed without delay.

Problems of Interpretation:

As a general rule, magnetic profiles correspond more closely to their geological causes (that is, the profiles show more detail) as the measurements are made nearer these rocks. Thus airborne data recorded at a great height show very broad integrated features. As the profiles are measured at lower levels, more detail appears, and readings on bare outcrops should ordinarily give the most sharply defined data possible, although the relative significance of anomalies may vary as mentioned below.

In this particular case, the early Precambrian formations in which we are interested underlie several hundred feet of later diabase and sodiments. In a sense therefore, the ground data are "airborno" results taken at the lowest possible altitude. In this way they offer greater possibilities than the M. A. D. for detailed interpretation, but are subject to influences which tend to minimize this advantage. Variations in magnetic intensity may be due not only to early Precambrian features, but to changes in the diabase and sediments. Such changes are of three types, and these may occur separately or in combination: (1) the sill may vary in thickness, shown in part by the topography (this changes the altitude above the lower formation, and also puts an unknown amount of magnotic material between the observer and the Keewatin Temiskaming rocks); (2) the diabase itself may vary in ma; netic offects from place to place; (3) rugged topography, especially in a somewhat magnetic formation as the diabase, introduces errors in the readings. In addition, local effects may be caused by magnetic boulders in overburden, and these must be discorded in interpretation.

The problems of interpretation are thus complex, but it is gratifying to note a rather close correspondence between airborne and ground results, the latter showing greator detail, but still in general agreement with the former. Unassessable errors due to the diabase and sediments appear to be small in most places.

A model has been made of the ground magnetometer profiles to aid in their interpretation.

It must be remembered that while the following interpretation is considered to be more reliable than any heretofore made, it is still

based upon limited information. The bedrock in which we are interested will likely remain unseen until it is cut by the diamond drill. Drilling results can then be studied in the light of geophysical evidence, and vice versa. Thus as more precise data are accumulated, the degree of accuracy of interpretation may be increased, and the whole interpretation brought up to date. Radical changes in previous conclusions might conceivably be required and additional magnetic measurements may be desirable. Geophysical work from within the drill hole may be helpful. Each successive drill hole can then be located with more knowledge of actual conditions and should, therefore reveal more critical information.

GENERAL INTERPRETATION

Magnetic intensity as recorded on the ground varies greatly within the area, with a range of some 6500 gammas. At the property boundary the vertical intensity is already about 4000 gammas above normal for the region, and this increment has been added to the ground magnetic data to give values approximately comparable to the aeromagnetic data.*

The anomaly region corresponds remarkably well with that outlined by the airborne work. Moreover, the east end of the anomaly stops
quite abruptly in the vicinity of line 00, confirming and establishing
with greater accuracy the major north-south fault interpreted from the
airborne survey.

The peak of "B" anomaly appears to be at a small lake lying between lines 2640 % and 3960 % (north), again checking and improving on the aeromagnetic observations. At this locality it may reasonably be supposed that the Keewatin iron formation comes nearest the surface, and

that the overlying rocks are thinner than at any mearby point along the strike of the iron formation. For this and other reasons diamond drilling should be started at this site.

DETAILED INTERPRETATION

The general geology as exposed east of Emerald Lake has been described. Isoclinal folds of Keewatin lavas, pyroclastics and iron formation, and Temiskaming sediments, intruded by Algoman-type porphyries and hydrothermal solutions, underlie several hundred feet of Cobalt sediments and Koweenawan diabase sill. The Keewatin iron formation is most distinctive geomagnetically, and a detailed analysis of the magnetic contours amounts largely to an interpretation of structure in this formation. Adjacent rocks and structure may be interpreted when magnetic differences are sufficient to persist through the various effects of the overlying rocks. Major structural features in the iron formation may be expected to extend into adjacent horizons.

Folding:

Previous reports suggested that the westerly plunge of folds (chiefly a large syncline) observed on the east side of Emerald Lake may continue only a short distance west of the Emerald Lake fault, after which the plunge is reversed. That is, west of "B" anomaly the plunge is to the east. Still further west, the plunge is again to the west.

Results of the ground survey support this idea. Going west from the peak of "B" anomaly, the folds rise in a north-south cross-anticlinal axis just west of line 13200W. West of this axis the plunge is steeply to the wesc.

At numerous places on the property the contours are strongly contorted. This appears to be evidence of folding and possible faulting in the iron formation, related in some cases to drag along the Emerald Lake fault, and in others to strong regional isoclinal folding. At any rate, structures favourable for porphyry intrusion and hydrothermal deposits are indicated by such conditions, as observed at the New Golden Rose kline on Emerald Lake.

The high magnetic values in the vicinity of the "B" anomaly peak are of this nature, and their occurrence in a locality in which the diabase is considered to be thin is regarded favourably.

Other localities that merit attention, especially if that just mentioned confirms present hopes, are as follows (the coordinates identify the central part of each locality, not a specific point):

Line	1320W	7800N		
	528 OW	3100N	to	57 OON
	66 00%	1800N	to	3400N
	7920W	1900N	to	3600N
	924 0 W	250011	to	34 00::
	1056 0 %	2600N	to	3100N
	11820W	1500n	to	2100N
	15840%	21001	t.o	3 (XXX)

At the New Golden Rose Mine fold was found in sulphides in iron formation.

The possibility of silver or base metal occurrences should not be overlooked.

Faulting:

The Emerald Lake fault is confirmed by the fairly rapid drop in magnetic intensity not far east of line 2640%. An east-west profile across the area passing just south of the island in the "b" anomaly lake, shows this clearly. The fault extends south along the west shore of Emerald Lake, as previously supposed.

Faulting beneath Emerald Lake is not as simple as originally

interpreted. The Emerald Lake fault by itself fails to explain certain conditions just west of the New Golden Rose Mine. For example, magnetic values in the southeast corner of the property should be much higher if the new Golden Rose iron formation is projected to the Emerald Lake fault, for the magnetic influence of such a horizon is reflected in readings up to a thousand feet distant. Again, magnetic data over Emerald Lake do not show a western continuation of the iron formation beneath the lake. A very sudden decrease in magnetic intensity occurs west of the shore line near the New Colden Rose Mine which is even sharper than the "B" anomaly drop at the Emerald Lake fault.

off the shore at the New Golden Rose. This fault strikes east of north, and merges with the Emerald Lake fault to the southwest. A wedge-shaped block lies between the two faults, and as yet the position of any iron formation in this block is not known. Vertical movement may have raised or lowered the iron formation such that it was completely removed by erosion, or was moved to a depth where its magnetic effect was greatly reduced. An alternative explanation is that the wedge moved relatively south, spreading the east and west blocks apart, accompanied by a relative north movement of "B" anomaly with respect to "A". This may have resulted from fault movements of 2 different ages (See Figure 1).

The new fault, which may be called the Goldon Rose fault, is in line with topographic linears interpreted as faults in adjoining Keewatin areas by Dr. J. T. Vilson.

It is found that the anomaly due to low grade iron formation

on the island south of the New Golden Rose Mine is not picked up on a profile immediately west of the island. No reason for this can be given at present.

The aerial photographs indicate a possible east-west fault north of "B" anomaly. Linears are not seen within the property boundaries because of the younger diabase, but to the east and west fault-line features have been identified. These are in line with disturbances in the magnetic profiles north of "B" anomaly.

A marked irregularity at the north end of the 1320W profile.

may coincide with the intersection of this east-west fault and the

Emerald Lake fault.

CONCLUSIONS

The ground geomagnetic survey of Dominion Gulf's property in Afton Township has added detail and character to the general picture already established by airborne work. The original interpretation has not been greatly changed, but it has been improved and the present analysis may be used with more confidence in outlining future programs.

Drilling is now recommended, and the results of such work will enable more detailed and precise interpretation of the geophysical data.

Future plans, therefore, depend upon the drill results either directly or indirectly.

RECOMMENDATIONS

It is recommended that a diamond drill be moved onto the property as soon as possible. It is much simpler to transport drilling equipment into this area during the winter than after the snow has gone,

and the long breakup period makes such activity extremely difficult.

A north-south diamond drill section is proposed through the small lake at the peak of "B" anomaly. Such a section is particularly well located, not only from the standpoint of structural interpretation, but because it lies in a topographic depression; the diabase and Cobalt sediments (if the sediments occur here) should be of less than average thickness in the valley.

Hole No. 1 should be located and cased on the west shore of "B" Lake and drilled in a southerly direction at -60° from horizontal to a core depth of 1000. This hole can be continued far enough to give a preliminary cross-section of reasonable width. The dip chosen is a compromise between depth testing and section drilling.

Hole No. 2 should be located and drilled at -45° to continue the cross-section started by hole No. 1. The location and dip of this hole will depend to some extent on the thickness of diabase in the immediate area as determined by hole No. 1.

the above drilling cross-section in a northerly direction from the first Keewatin intersection in hole No. 1. Depending on the thickness of diabase, hole No. 3 should be drilled at as flat an angle as possible, and continued as far as possible to gain information across the favorable zone without having to drill through a great thickness of diabase.

As the core is studied, the new information should be constantly applied toward further interpretation of the geophysical data.

This point cannot be over-emphasized.

Drilling should be in charge of a compotent man, who will see that the "coregrabbing" is properly done, that mixups do not occur and

that holes are correctly laid out; during the summer months he should prospect for possible outcrops of early Precambrian rock. The whole property should eventually be examined for such occurrences - for this area of supposedly barren diabase has not been examined carefully by prospectors. Several promising localities have been mentioned above which might well be investigated first.

The entire program should be carried out under close goological and geophysical guidance.

Respectfully submitted,
MINING GEOPHYSIAS COMPORATION LIMITED

6. M. Bertley

N. B. Feevil

N.S. Scott

Toronto, Ontario, March 6, 1948.

X EDH 394A

Property:

Central Afton Claims, Dominion Gulf Company, situated in the central part of Afton Township, Timagami Area, Sudbury Mining Division, Timiskaming Listrict, Province of Ontario. Comprising 88 claims, viz:

S-50312 to S-50392 (inclusive) S-50627 to S-50633 (inclusive)

Dates of Survey:

Linecutting, chaining, picketting:

January 7, 1948	12 men	12	man	days
" 8, "	10 men	10	11	11
" 9 to 19, 1948	12 men	132	**	**
" 20, 1948	10 men	10	11	**
" 21 to 25, 1948	12 men	60	**	**
" 26, 1948	10 men	10	11	**
" 27 to Feb. 1,1:48		72	**	17
February 2, 1948	8 men	8	n	11
" 3, 1948	12 men	12	m	11
" 4, 1948	8 men	8	n	17
" 5, 1948	10 men	10	11	11
" 6 to Feb. 8,1948	10 men	30	11	**

Magnetic Measurements:

December 21, 1947	2 mon	2 man days
January 6, 1948	2 "	2 " "
January 20, 1948	2 "	2 " "
January 26, 1948	2 "	2 " "
February 2, 1948	4 "	4 " "
hobreary 4, 1948	4 "	4 " "
February 5, 1948	2 "	2 " "
February 6 to Feb.8,1946	2 "	6 " "
February 18, 1948	2 "	2 " "

Calculating, plotting, interpretation, mapping:

February 10 to March 9	9 mon(inter-	57 "	,,,
	mittently)	457 II	11

Baseline:

From Post No. 1 of Claim S-50628, baseline runs West along Central Township line for a distance of 16990 feet and East for a distance of 795 feet. Total length of baseline, 17,785 feet.

Picket Lines:

Turned off from baseline at right angles every quarter mile.

Miles of Line:

27.6 miles

Magnetometer Operators:

T. G. Robinson S. L. Spafford F. J. Wank

Assistants:

H. Lee

C. Sonstenes

Linecutters:

T. G. Robinson and 11 assistants

Draughtsman:

R. L. Hill

Geolo ists and Geophysicists:

C. M. Bartley, H. J. Scott, J. Frantz, M. B. Keevil, J. L. Koakes

Instruments Used:

Askania Type Degnetometer Sens tivity: 39.7

Wolfson Type Hagnetometer Sensitivity: 43.2

Location of "Main Base":

O OC on baseline. In field - 1515 garmas On may - 5515 garmas

No. of Magnetic Measurements:

1231

PART II

DISCUSSION OF MORE DETAILED GROUND SURVEYS

SUMMARY

The detail over the extension of B anomaly shows little except local magnetic effect. The magnetic values over the quartz veins are not large enough to successfully outline the veins. Some correlation between local anomalies and mineralization appears to exist in the North-west corner of the property. In view of the inadequate nature of geological maps, and the unsuccessful drilling to do to, it is recommended that diamond drilling be discontinued, and geological mapping be undertaken.

DISCUSSION OF MORE DETAILED GROUND SURVEYS

DETAILED AREAS

In addition to the magnetic detail obtained at B anomaly (or "B" Lake) three other areas were investigated with closely spaced lines.

- (a) From B anomaly to the south west for a distance of three-quarters of a mile.
- (b) From B anomaly to the north east for three-quarters of a mile.
- (c) Claim S-50388.
- (a) and (b) were done to trace any extensions of B amomaly, while Claim S-50388 was investigated because of the discovery of a large quartz vein striking toward "B" Lake.

DISCUSSION OF RESULTS

The magnetic values to the south west of "B" Lake substantiated the values obtained from the air. Only minor changes in the direction of the magnetic contours were made. These variations were due to areas of slightly higher permeability at or near the surface of the sill.

Investigations to the north east of "B" Lake disclosed a long, marrow anomaly whose strike was that of the main anomaly. The anomaly appears to be a series of peaks superimposed on a general gradient to the north and hence is most likely due to a localized concentration of magnetite near the surface of the diabase.

Investigations over Claim S-50388 were undertaken in an attempt to trace a wide quartz vein associated with ankerite, sericite, sheist, altered sediments and some acidic intrusive material, and carrying

minor sulphide mineralization.

The magnetic values over the vein at the east side of the claim were only slightly lower than to either side, while the values near the west boundary were higher over the vein. The general trend of the anomalies was to the north and north east. No definite change in the contours occurred in the vicinity of the vein. If the position of the quartz was not known the slight magnetic variations as the vein was crossed, could very easily have been attributed, and may actually be due, to variations of the magnetite concentrations in the sill.

CONCLUSIONS

The detailed magnetic work has not changed the shape or appearance of the B anomaly. The anomalies to the north east are local effects superimposed on the flank of the B anomaly. The magnetic values over the quartz vein are not well enough marked to delimit the vein and hence further magnetic readings to trace the quartz zone in this section would have little value.

It should be noted, however, that geological mapping by C. M. Bartley in the North-west corner of the Central Afton property has outlined vein material and altered rocks of sedimentary origin, which seem to bear some relationship to the magnetic contours from the ground survey, in Claim S-50392.

RECOMMENDATIONS

It is recommended that diamond drilling be discontinued, at least temporarily. The property should be geologically mapped in detail, the surrounding country studied in recommaissance, and the data

assessed in the light of all existing knowledge before considering further drilling.

APPENDIX "A"

EXAMINATION OF TWO THIN SECTIONS OF MAND SPECIMENS OF CARBONATE ROCKS IN CLAIM S-50388.

The fine-grained specimen consists of an intergrowth of fine-grained quartz, sericite, and an iron-bearing carbonate, probably ankerite. There is a distinct schistosity. This appears to have been a siliceous sediment which has been carbonatized.

The coarse-grained specimen consists of the same minerals as above, but only a small amount of quartz and sericite were seen, interstitial to the abundant ankerite. This appears to be a carbonate vein.



41116NW0057 0019 AFTON

GEOLOGICAL REPORT FOR ONTARIO DEPARTMENT OF MINES

DOMINION GULF - AFTON CLAIMS

Locations

The property is situated in the central part of Afton Town-ship, Timagami Provincial Forest, District of Sudbury. It is accessible by road via River Valley on the Canadian National Railway; the distance from that locality being approximately 40 miles.

Property:

The property consists of 94 claims with the following claim

numbers:

S50312 - S50392 inclusive

S50627 - S50633

S51018 - S51023 "

The property is owned outright by:

Dominion Gulf Company 203 Bay Street Toronto, Ontario

Topography:

The topography of the claim group is quite rugged with hills rising 200 to 300 feet above the general elevation. Sharp valleys and steep bluffs are quite common.

The west portion of the property is covered mostly with second growth poplar, maple, birch, spruce, pine and tag alders. In the east portion, a lumbering firm is cutting good stands of red and white pine. In the general area of "B" Lake, there are good stands of birch and maple.

Mapping Methods and Purpose:

The claim group was traversed using the picketed and taped north south claim lines. Traverses were run off these lines using the compass and pace method. The following persons in addition to the writer, were employed in this work.

I. C. Christopher, Graduate Geologist, University of Saskatchevan

B. K. Glassford, Geology Student, McGill University

H. R. Hogan, Geology Student, McGill University

E. Norppa, Student, Ontario Institute of Mining, Haileybury

D. A. Lewis, Draftsman

Two geological maps are included in this report:

Dominion Gulf Claim Map Scale 1" - 400 feet. Detail Geological Map of Claim S50388.

These maps are all compiled entirely by Dominion Gulf personnel from traverses made in the field.

The purpose of the geological study was to attempt to find a reason for the high anomaly in the claim group. A great deal of time was spent recording strikes and dips of fracture patterns and stripping outcrops for signs of mineralization, in the hope that some cause of the anomaly might be revealed.

GEOLOGY

General:

The property is underlain by Nipissing diabase and gently folded sediments of Cobalt age. No outcrop evidence could be found of the Kee-watin rocks that outcrop to the east on Emerald Lake, but there is no reason to doubt that they represent the basement rocks under the Cobalt sediments and Nipissing diabase on the claims.

Table of Formations:

Post-Diabase - Quartz veins, basic dikes.

Nipissing - Diabase.

Cobalt - Glacial tillites and greywackes.

Cobalt Sediments:

These are not well exposed on the property, but due to the fact that they underlie the diabase sill on the property, they were observed and studied to the east and north. These are typical glacial sediments with tillites and greywackes predominating.

Tillites have a dark fine matrix and contain a high percentage of angular granite boulders. Where in contact with the iron formation on

the large island in Emerald Lake, the boulders are mostly of that formation. This tillite appears to be the basal member of the Cobalt series in the area.

The greywackes vary from a fine grained dark unbedded, to a well varved type. These are well exposed on the west shore of Emerald Lake in contact with the diabase sill. A few outcrops of contorted fine grained greywackes were found in the upper part of Claim 50329. The outcrops are on top of a hill and are surrounded by diabase. They probably represent a remnant of the Cobalt sediments that once capped the diabase sill.

To the north of the property on Obabika Lake, and the lake immediately to the west, arkosic sediments with isolated angular pebbles are common. These arkoses show only slight signs of bedding.

The attitude of the Cobalt sediment varies considerably. Where observed in the centre of the Emerald Lake "window" of Keewatin rock, they are quite flat. On the shore of Emerald Lake, at the New Golden Rose Mine, immediately to the east of Gulf claims, they dip steeply to the west. Underground evidence at that mine, also indicates a rapid thickening of the Cobalt sediments west from this Keewatin "window". On the west shore of Emerald Lake the greywackes are rather flat lying to gently folded. Immediately to the north of the property the greywackes are gently folded and have a general overall dip to the north or north-west. Diabase:

This is the chief rock type exposed on surface in the claim group. It appears to be the normal Nipissing diabase described in the Ontario Department of Mines reports. It mostly shows a medium diabasic generally in the Ferm of texture. Pegmatitic phases are locally common and dikes which have no definite contacts with the normal diabase. The pegmatitic phases, high in ferrograguesian content, generally contain sufficient magnetite to be

quite magnetic.

A thin section of the normal diabase encountered, from the south-east corner of Claim S50343 in the area of an anomaly, is described by Dr. Smith of the University of Toronto, as follows: "This is a massive gabbro with a distinct diabasic texture". It has more than the normal amount of plagioclases, which is the variety labradorite. There is a small amount of alteration of the augite at grain boundaries to a sodic hornblende. Magnetite is interstitial.

Little field evidence of alteration or mineralization of the diabase was noted. Special care was taken while mapping the diabase to note any change in texture in the hope that some evidence of the nature or attitude of the sill might be obtained, however, no conclusive trends were noted. At the observed contacts with the Cobalt sediments, the diabase definitely had a finer texture, but this rapidly graded into the normal type.

The attitude and thickness of the sill is one of prime importance. In the east portion of the property, the depth varies from nil to a few hundred feet and there rests on the Cobalt sediments. In the north part of the property and the area immediately to the north, the evidence points to the conclusion that this is the north limit of the sill, with some of the sediments lying on top and some below the sill. A diamond drill hole to the west of "B" Lake, in the centre of the property, indicated a depth of 1190 feet of diabase before passing into Cobalt sediments. This would indicate a decided increase in depth from the east and north contacts. This may indicate a basin or synclinal structure or may be due partly to faulting.

Basic Dikes:

Approximately 400 feet south of #4 post, claim #50321, there is exposed for a length of 50 feet on the face of a small cliff, a rather

flat lying dike of basic rock. It had sharp irregular contacts with the diabase and contains fragments of diabase and also another dark rock which was quite magnetic.

Faulting:

Fracture slips in the diabase and sediments were quite common, and a large number of strikes and dips were noted. It was hoped that some structural clues might be obtained from these. Local variation in the magnetic deviation have caused variations in the readings that possibly do not exist. There are two sets of values that stand out; namely, $60^{\circ} \pm$ and $140^{\circ} \pm$ (magnetic). A number of topographical features also show trends in these directions, and it is highly probable they represent faults. Lack of horizon markers makes any evidence of direction or amount of movement, highly conjectural.

Mineralization:

Except for a few specks of sulphides, and some magnetite, which were most likely original constituents of the diabase, no signs of mineral-ization were noted on the property, except quartz veins and some chalco-pyrite, locally associated with them.

There are a number of quartz outcrops in the claims, all having the same general appearance. Two large masses or veins of quartz were located, sampled and mapped, namely the "East Quartz Showing", claim S50338, and the "West Quartz Showing" in Claims S50379 and 92. The "East Quartz Showing" is exposed in two groups of outcrops, one having an exposed length of 450 feet, and the other 250 feet with widths up to 75 feet.

There is no surface evidence for the dip of this vein in these outcrops. An outcrop to the east in claim S51021, which is possibly a continuation of the same vein, dips 60° to the north, and strikes S 60° E. It is the writer's belief that the vein occupies an irregular striking and dipping shear in the diabase. The quartz in this showing is mostly white, with

locally a slight blue tinge. Sulphide mineralization is almost nil.

Inclusions of a green sheared chloritic rock, which is most probably sheared diabase, are found in the quartz. No values in gold were obtained from any of the channel or grab samples.

and S50379, giving an exposed length of 2000 feet, and widths up to 200 feet. The exposed width is accentuated due to the flat dip of the vein to the south. The quartz in this showing is very similar in appearance to the "East Quartz Showing" just described. However, with this showing, some masses of sulphides with malachite stains were found with a width of 6 to 8 inches which assayed 22% copper, and nil in gold. Heavy overburden prevented any length being opened on this exposure by the mapping party. It is the writer's opinion that the veins are post-diabase, although possibly related to that intrusion, and that they are of little economic value. Veins similar to these in the area are known to carry very erratic high grade pockets of gold.

S. E. Parans

(Sgd.) G. E. Parsons
Graduate Geologist
University of Toronto

GEP:11

Rovember 10th, 1948



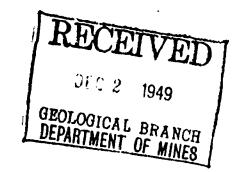


SUDBURY MINING DIVISION SUDBURY, ONTARIO

DEPARTMENT OF MINES

December 1, 1949.

Dr. M. E. Hurst, Provincial Geologist, Parliament Buildings, Toronto, Ontario.



Dear Sir:

I enclose herewith copies of diamond drill logs covering diamond drilling performed on mining claims S.50316 et al, Afton Township, by the Dominion Gulf Company.

Yours very truly

LB.

Mining Recorder,

AFTON



AFTON CLAIMS AREA

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

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HOLE NO. PAGE N

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DRILLING COMPANY		1175.88	BEARING OF HOLE TOTAL FOOTAGE	DIP OF HOLE AT	LAT 5279.3' NORTH.	DATUM: EMERALD LK 1000
1 T	OMPLETED 11 11, 1948	DATE LOGGED	LOGGED BY	1.1	— LAT 5279.3' NORTH. DEP. 734, 16 'EAST	BEALING: 170 TRUE (COMPI-
EXPLORATION CO., OWNER OR OPTION ULIMATE DEPT	TH 1263.0 X	DATE SUBMITTED	DIRECTION AT START COLHAR 61° 250-61°,	f1 f1	CENTER LING OF T	PROPERTY NAME

UNIT	ULTIMATE DEPTH 1263	CDLNAK 61 230 00 0	<u> </u>		12 0/00	PROPERTY NAME					
5007165		750-63° " DESCRIPTION 1250-66°	PLANAS	cone	7000	SAMPLE	OOTAGE	SAMPLE	ASSAYS +		
FOOTAGE	ROCK TYPE	Colour, grain size, texture, minerals, alteration, etc.	FEATUR	SPECIMEN FOOTAGE	SAMPLE	FROM	TO	LENGTH	1	7	
10	· ·	Casing		+			15.0			+	
		Diabase, medium grained fairly massive, a few rusty		+			41.0			+	
		fractures			 					+	
		Diabase, medium grained, considerable fracturing,		+	 	41.0	48.0		i	+	
50		slight rust along seams		 	 					+	
		Diabase, medium to fine grained, fairly massive		 		48.0	58.0			+	
		see 15.0 - 41.0		-						1	
		Diabase, fine grained, grey-greenish alteration and			 	58.0	63.0			7	
		pitted surface			1					7	
100		Diabase, fine grained, grey color, pitted greenish				63.0	91.0			1	
		alteration in places, numerous small quartz stringer	s.							T	
		11 quartz-carbonate stringer at 75.0'									
	····	Diabase, medium to coarse grained, finer grained sec	t-		T	91.0	202.5			1	
		ions 121-125 and 152-155 ft., a few scattered quartz			T						
150		stringers less than 1"									
		Diabase, fine grained, gradual contact with above gr	ey			202.5	214.0				
		color, numerous quartz stringers.		T.							
		Diabase, coarse grained		7		214.0	219.0			\neg	
		Diabase, fine grained, quartz stringers				219.0	229.0			\Box	
200		Diabase, lighter grey color, finer grained, some dar	k	T		229.0	234.0			\Box	
		streaky minerals					1				
		Vitreous quartz, some carbonate				234.0	234.5			Ţ	
!		Diabase, fine grained, light grey color with stringe	rs			234.5	236.0				
		and patches of quartz and pink feldspar									
250		Diabase, fine grained, stringers of quartz and quart	z-			236.0	256.0				
		carbonate									
		Diabase, fine grained, quartz stringers, pinkish			1	256.5	263.5				
		quartz-carbonate stringers 256.5-261.0			<u> </u>	<u> </u>					
		Diabase, medium to coarse grained					284.0				
300		Diabase, fine grained, numerous stringers quartz and			1	284.0	328.0				
		quartz carbonate, 3" quartz 285', 2" quartz 286.5',			 		ļ				
					 		 	 -			
					 		-	 		_'	



Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

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DRILLING COMPANY		COLLAR	BEARING OF HOLE TOTAL FOOTAGE	DIP OF HOLE AT	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.
	_			collor			
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY	10.1		LOCATION (Tp., Let, Con.	OR Let. and Long.)
				_ 	1	į	
EXPLORATION CO., OWNER	R OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)				
				6, 1		PROPERTY NAME	
			1	f+			
FOOTAGE			DESCRIPTION		PLANAR CORE YOUR SAMPLE	FOOTAGE SAMPLE	ASSAYS +

		DESCRIPTION Colour, grain size, texture, minerals, alteration, explicitly stream chalcopyrite 289.5 with some pinkish carbonate and co	f+					PROPERT	Y NAME		
			fr								
FOOTAGE	ROCK TYPE			PLANAR	PLANAR CORE FEATURE SPECIMEN		SAMPLE	FOOTAGE	SAMPLE		ASSAYS +
ROM TO		Colour, grain size, texture, minerals, alte	ration, etc.	ANGLE	PO0746E +	SAMPLE NUMBER	FROM	TO	LENGTH		
		_ 		<u> </u>		<u> </u>	284.0	328.0	(cont)	nuea)	1
			nd considerable			<u> </u>					
		quartz in stringers and veinlets				<u> </u>		1	ļ		
		Diabase, coarse grained, massive, gr	reenish. Small				328.0	426.0	1	<u> </u>	
350		patches fine grained									
		Diabase, texture varies from medium	to coarse, a few			<u></u>	426.0	459.0			
		quartz stringers					<u> </u>			<u> </u>	
		Diabase, coarse grained, gradually b				<u> </u>	459.0	538.0	<u> </u>	<u> </u>	
		rather than greenish gray, small tra	nslucent greenish								<u> </u>
400		talcose seams at 504' and 507' and a	at most fracture			<u> </u>			<u> </u>	<u> </u>	
		seams				<u> </u>	<u> </u>				<u>. L</u>
		Diabase, coarse grained, normal ligh	nt grey color. 2"	1			538.0	555.0			
		quartz veinlet at 547' shows slight	chalcopyrite and								
		pyrrhotite.									
450		Diabase, coarse grained, dark grey of	color, greenish talc				555.0	576.0			
		along fracture seams				I					
		Diabase, coarse grained, light grey	color, fine grained				576.0	602.0			
		patches carry small stringers and ve	einlets of quartz								
		Diabase, mostly fine grained dark qu	rey, becoming darker		I		602.0	675.0			
500		from 600.0', a few small patches coa	arse grained, green-								
		ish talc along fracture seams									
		Diabase similar to above, a few small	ll quartz stringers				675.0	735.0			
		and patches of yellowish green alter	ration	1	1						
		Diabase, light grey color, medium to	coarse grained,				735.0	745.0			
550		dark mineral with quartz stringer at	t 739.0' possibly								
	and a second control of	tourmaline					1		1		
		Diabase, fine grained, dark grey, co	parser grained patch	7			745.0	784.0			
		es a little lighter in color		1	Ī						
		Diabase, rather coarse grained, ligh	nt grey color, some	1			784.0	791.0			
600		talc along seams		T							
				1						1	
	···					1					
	hamadalli (il.) dalla malesa (il.) and (il.) a				1	1		1			1
						*····				•	



DRILLING COMPANY

THE MINING ACT - DEPARTMENT OF MINES DIAMOND DRILLING LOG

COLLAR

Start a new page for every new hole, but fill in top portion of form only on first page for each hale.

FROM TRUE NORTH

HOLE NO. EVERY PAGE LOCATION OF HOLE IN RELATION TO A MAP REFERENCE NO. FIXED POINT ON THE CLAIM

CLAIM NO.

EXPLORATION CO., OWNER OR OPTIONEE DATE SUBMITTED SUBMITTED BY (Signature) ft	ATE HOL	E STARTED	DATE COMPLE	ETED	DATE LOGGED	LOGGED BY	Contor			-	- '	LOCATION	(Tp., Lot, Con	- OR Let. and Long.)
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PROPERTY NAME							6. 1	1						
												PROPERTY	NAME	
Diabase, fine grained, dark gray Diabase, medium grained, grey color, quartz stringers and greenish alteration 816.0'-817.6' Diabase, fine to medium grained with patches of coarse Diabase, fine to medium grained with patches of coarse Biabase, fine to medium grained with patches of coarse Diabase, fine to medium grained with patches of coarse Biabase, fine to medium grained with patches of coarse Diabase, fine to medium grained with patches of coarse Biabase, fine to medium grained with patches of coarse Biabase, fine to medium grained with patches of coarse Biabase, similar, becoming fine grained Biabase, similar, becoming fine grained Biabase, similar, becoming fine grained Biabase, fine grained dull greenish with streaks (flow lines?) Diabase, fine grained, dark grey, quartz stringers. Diabase, fine grained, dark grey, quartz stringers. Bight diss. Quartzite, sil. medium to fine grained, granular (Under grained, granular (Under grained, granular, panced granular, probably flow rock, dark green slightly Biabase, streaky, fine grained Biabase, medium grained, green color growth grained, granular, banded in places Biabase, medium grained, green color grained, granular, banded granular, scensone, probably flows, greenish banded in places, granular,	F001	TAGE	ROCK TYPE								SAMPLE	FOOTAGE	SAMPLE	ASSAYS +
Diabase, medium grained, grey color, quartz stringers and greenish alteration 816.0-817.6' Diabase, fine to medium grained with patches of coarse grained material, green talc along seams Diabase, similar, little lighter color Diabase, similar, little lighter color Diabase, medium grained, dark grey Diabase, medium grained, dark grey Diabase, similar, becoming fine grained Greenstone inclusion with e" quartz at 920.0'. Rock fine grained dull greenish with streaks (flow lines?) Diabase, fine grained, dark grey, quartz stringers. Diabase, fine grained, dark grey, quartz stringers. Diabase, fine grained, dark grey, quartz stringers. Slight diss. Quartzite, sil. medium to fine grained, granular (Under 938.5 942.5 glass), light grey green color Greenstone, probably flow rock, dark green slightly Schistose, streaky, fine grained Quartzite, Sil. dense, fine grained, granular, banded Diabase, medium grained, green color Greenstone, probably flows, greenish banded in places, Diabase, medium grained, green color Greenstone, probably flows, greenish banded in places, Slightly schistose Quartzite, sil. granular Greenstone, probably flows, greenish banded in places, Greenstone, probably flows, greenish banded in places, Greenstone, probably flows, greenish banded in places, Diabase, medium grained, green, medium Greenstone, probably flows, streaky green, medium Greenstone, probably flows, streaky green, medium Greenstone, probably flows, streaky green, medium Greenstone, dark green, sil. granular Greenstone, dark green, medium to fine grained, massive (massive greywacke or fine grained diabase, probably	FROM	то					ation, etc.	AHELE PO	TAGE + NU		FROM	TO	LENGTH	
and greenish alteration 816.0'-817.6' Diabase, fine to medium grained with patches of coarse Diabase, similar, little lighter color Diabase, similar, little lighter color Diabase, medium grained, dark grey Diabase, similar, becoming fine grained Greenstone inclusion with e' guartz at 920.0'. Rock Diabase, similar, becoming fine grained Greenstone inclusion with e' guartz at 920.0'. Rock Diabase, fine grained dull greenish with streaks (flow lines?) Diabase, fine grained, dark grey, quartz stringers. Slight diss. Quartzite, sil. medium to fine grained, granular (Under glass), light grey green color Greenstone, probably flow rock, dark green slightly Schistose, streaky, fine grained, granular, banded Quartzite, Sil. dense, fine grained, granular, banded Diabase, medium grained, green color Greenstone, probably flows, greenish banded in places, Diabase, medium grained, green color Greenstone, probably flows, greenish banded in places, Quartzite, sil. granular Greenstone, probably flows, streaky green, medium Greenstone, slightly schistose, quartz-carbonate stringers Quartzite, gray to pink, sil. granular Quartzite, pink to grey, sil. granular, several seams Quartzite, pink to grey, sil. granular, several seams Greenstone, dark green, medium to fine grained, massive Inassive greywacke or fine grained diabase, probably				Diabase	, fine grain	ned, dark gray				ľ	791.0	800.0		
Diabase, fine to medium grained with patches of coarse grained material, green talc along seams Diabase, similar, little lighter color Diabase, similar, little lighter color Diabase, medium grained, dark grey Diabase, similar, becoming fine grained Diabase, fine grained diabase, fine grained, dark grey, quartz stringers Diabase, fine grained, dark grey, quartz stringers. Slight diss. Quartzite, sil. medium to fine grained, granular (Under glass), light grey green color Greenstone, probably flow rock, dark green slightly Schistose, streaky, fine grained Quartzite, Sil. dense, fine grained, granular, banded Diabase, medium grained, green color Diabase, medium grained, green, medium Diabase, grained, gra				Diabase	, medium gra	ained, grey color,	quartz stringers							
grained material, green talc along seams Diabase, similar, little lighter color Diabase, medium grained, dark grey Diabase, similar, becoming fine grained Greenstone inclusion with e" quartz at 920.0". Rock fine grained dull greenish with streaks (flow lines?) Diabase, fine grained, dark grey, quartz stringers. Slight diss. Quartzite, sil. medium to fine grained, granular (Under glass), light grey green color Greenstone, probably flow rock, dark green slightly Schistose, streaky, fine grained, granular, banded glass, streaky, fine grained, granular, banded glass, medium grained, green color Greenstone, probably flows, greenish banded in places, Diabase, medium grained, green color Screenstone, probably flows, greenish banded in places, Slightly schistose Quartzite, sil. granular Greenstone, probably flows, streaky green, medium grained, slightly schistose, quartz-carbonate stringers Quartzite, grey to pink, sil. granular Quartzite, pink to grey, sil. granular, several seams and slops parallel to core Greenstone, dark green, medium to fine grained, massive local, and slops parallel to core [massive greywacke or fine grained diabase, probably														
Grained material, green talc along seams											820.0	870.0		
Diabase, medium grained, dark grey 875.0 915.0	650			grained	material,	green talc along s	eams							
Diabase, medium grained, dark grey Diabase, similar, becoming fine grained Greenstone inclusion with e" quartz at 920.0'. Rock fine grained dull greenish with streaks (flow lines?) Diabase, fine grained, dark grey, quartz stringers. Slight diss. Quartzite, sil. medium to fine grained, granular (Under glass), light grey green color Greenstone, probably flow rock, dark green slightly 942.5 957.0 Greenstone, probably fine grained, granular, banded in places Diabase, medium grained, green color Greenstone, probably flows, greenish banded in places, Slightly schistose Quartzite, sil. granular Greenstone, probably flows, streaky green, medium Greenstone, dark green, medium to fine grained, massive Greenstone, from the grained diabase, probably							or				870.0	875.0		
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Quartzite, pink to grey, sil. granular, several seams 989.0 1021.0 and slops parallel to core Greenstone, dark green, medium to fine grained, massive 1021.0 1023.5 (massive greywacke or fine grained diabase, probably	850			Quartzi	te, grey to	pink, sil. granul	ar	1			988 0	989 0	 	
and slops parallel to core Greenstone, dark green, medium to fine grained, massive 1021.0 1023.5 (massive greywacke or fine grained diabase, probably				Quartzi	te, pink to	grey, sil. granul	ar, several seams	1						
Greenstone, dark green, medium to fine grained, massive 1021.0 1023.5 (massive greywacke or fine grained diabase, probably								1					1	
(massive greywacke or fine grained diabase, probably			· · · · · · · · · · · · · · · · · · ·	Greenst	one, dark gr	reen, medium to fi	ne grained, massive	<u> </u>			1021 0	1 1023	<u> </u>	
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ESFAUGH

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PAGNINA OF HOLY TOTAL POOTAGE DIP OF HOLE AT

PILE IN ON HOLE NO. PAGE NO. | PA

DATE HOLE STARTED	DATE COMPLET	ED DATE LOGGE	LOGGED BY	COTTON	1				LOCATION	(Tp., Lat, C	on. OR Lot.	ond Longs	
		and the first term of the control of the first term of the first t	ED BUBMITYED BY (Signature)	- 1,	4								
EXPLORATION CO., O	WHER OR OPTIONES	DATE SUBMIT	ED BORMITTED BY (Signature)	11	-			ĺ					
					4				PROPERTY	HAME			
				(1)									
POOTAGE	HOCK TYPE		DESCRIPTION				-		POOTAGE	SAMPLE		ASSAYS	
FROM TO	to statistical set on any		to gray, danse, sil. g		A4 61 8 1	7007448 1	*****	FROM	1048.	LENGTH			
- 19		Qualtzite, pink	core 1033.1-1033.8	tanutat ***********************************				1023.3	1040.	Ľ			
P. Marcin	• • •			and the company of the contract of the contrac				ļ				L	
	· ·		1035.7-1037.5	and the state of t	Se esta describer el	to better the control of	and a commission of the commis		-				
950	nover to make a contract of the same	Greenstone, gree	on, variable texture an	d hardness			1	1048.0	1066.	3	<u> </u>		
	-	Lost	core 1059.5-1060.0										
		1053.0-1060.0 F	ne grained, 1060-1066	medium grained,			ļ						
			e (?) Diss. chalcopyr	ite at 1053.8'									
1000		in diabase	and the second of the second										
1000		Quartzito, grey	, pink to buff in color sh alteration at seams	, dense sil.				1000.3	1160.	b		.	• • • • • • •
-			1137.5', 1140.8' and 11		1								
		Logi	core 1067.0-1068.5	49.0	1						 -		<u> </u>
		Bes	1069.6-1070.0		1						<u> </u>		
1050			1074.0-1076.0		İ			† · · · ·	•	!			-
			1080.0-1083.0		İ		1						
-	•		1084.5-1085.0				, ,	1				•	
			1086.0-1087.2		İ			<u> </u>			1	*	
			1088.0-1088.7										
1100			1090.0-1091.0	e company of the second of the					-				
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			pably intermediate to b										
			o fine grained, streaky Speckled in places (· · · · · · · · · · · · · · · · · · ·					
1150		with accordarym	inerals). Texture vari	on considerable	1								L
1130		in short distance	cos	os considerably	•			• • • • •					
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HOLE NO. PAGE N

LOCATION OF HOLE IN RELATION TO A MAP REFERENCE NO. BEARING OF HOLE TOTAL FOOTAGE DIP OF HOLE AT CLAIM NO. DRILLING COMPANY COLLAR coller LOCATION (Tp., Lot, Con. OR Let. and Long.) DATE LOGGED LOGGED BY DATE HOLE STARTED DATE COMPLETED 11 DATE SUBMITTED SUBMITTED BY (Signature) EXPLORATION CO., OWNER OR OPTIONEE fı f. 1

				fr					PROPERTY	NAME			
FOOT	AGE		DESCRIPTION			CORE	7009	SAMPLE	FOOTAGE	SAMPL	Ε	ASSAYS +	
ОМ	то	ROCK TYPE	Colour, grain size, texture, minerals, alteration, etc	•		SPECIMEN FOOTAGE +	SAMPLE	FROM	то	LENGT	н		Γ
			Quartzite, grey to pink					1164.	5 1172	5			T
			Lost core 1168.5-1170.0					<u> </u>	<u> </u>	† · · ·		1	1
			1172.5-1173.0				l	1			1	1	t
			Greenstone (see 1160.6-1164.5)		1			1	\$ 1173				T
250			Quartzite, grey				·	1173.	0 1174	5			T
		Market visit Mary state visit description and service states and service services.	Greenstone, fairly sil. speckled in place	es. lower con-				1174.	\$ 1178	0			T
			tact not definite						1				T
			Quartzite, grey to pink. Two inches qua	rtz-epidote at				1178.	0 1250	0			Ι
			1203.5. Four inches quartz with some ca	rbonates and									I
			alteration at 1205.0. Shearing 1239.0-1	244.5 at 30°									Ι
			to core						Ĭ				I
			Lost core 1181.3-1182.4		T								Ι
			1184.2-1185.0		Ĭ								I
			1186.5-1187.3										1
I			1228.0-1229.0				L						1
			1240,5-1242.5			<u> </u>							1
			1245.0-1250.0						İ				1
			Quartzite, grey to pink in color		<u> </u>			1250.	0 1263	10			I
			Lost core 1251.5-1252.0										
			1258.0-1260.0					J				1	
							<u> </u>	1			neck log		
						<u> </u>			1	Pa	arsons J		
			1263.0 END OF HOI	E								1948	Ŋ
			Diabase, fine grained at contact		<u> </u>	<u> </u>	<u> </u>	0.					_
			Greywacke ? dark, dirty green, fine grai	ned to dense	I			920.	0 990	0			
			texture, rather uniform. Grey wacke loc	ally impregnate	<u>a</u>								
			with dishage colutions		1		<u> </u>		1	1			
			Greywacke locally arkosic, very fine gra	ined, uniform	<u> </u>		<u> </u>	990.	0 1263	10			
			texture; varies from dirty green to mott	led pinks.			ļ						
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THE MINING ACT - DEPARTMENT OF MINES DIAMOND DRILLING LOG	CL 5033	Start a new page for	avery new hele, but fill in top on first page for each hele,		PILL IN ON HOLE NO. PAGE NO
DRILLING COMPANY	1262.88	VERTICAL	DIP OF HOLE AT	FIXED POINT ON THE CLAIM	MAP REFERENCE NO. CLAIM NO.
April 17, 1948 May 21, 1948	DATE SURMITTED	LOGGEU BY	6	1 LAT : 5178.8' NORTH 375.0' EAST	LOCATION (Tp., Lot, Con. OR Lot, and Long.)
ULTIMATE DEPTH 1298.0	1-	DIRECTION AT STACT BEARING: VERTICAL DEP : VERTICAL	10 1	CENTER LINE OF TWA	PROPERTY NAME

		DEFIN 10	BEARING: VERTICAL "		NIER		_	PROPERT	YNAME			
POOT	AG.	NOCK TYPE	DESCRIPTION	PL AN AR		10UR	SAMPLE	POOTAGE	SAMPLE		ASSAYS .	
FROM	10	NOCK TYPE	Calaus, grain size, tavius, minerals, alteration, etc.	44-01-		*****	FROM	70	LENGTH			
1			Casing				0.0					
			Diabase, fine to medium grained, dark grey color	1			9.0					
			Diabase, medium to coarse grained, patchy variations				35.0	127.5				[
	i		in texture. At 123.0 greenish streaks in core sugge	it								1
50			banding									
			Diabase, fine to coarse grained, variable	1				133.0				
			Diabase, medium grained				133.0	150.0				
-		•	Diabase, medium to coarse grained; at 168.0 light co									
Ī			oured coarse grained patch	I			1			i		
100			Diabase, coarse grained, light grey to green in colo			I	189.0	237.5				
I			Small amount of pyrite along narrow slip at 215.8					ļ		l		i
Ī			Diabase, fine grained and slightly sheared; cut by	l			237.5	240.0		I		Ì
I			numerous stringers of quartz. Minor amount of carbo	1-			l.			1		1
Ţ			ates									i
150			Diabase, fine grained with small stringers of quartz	-	İ	1	240.0	245.5		1	į	İ
			carbonates	İ							i i	Ì
			Diabase, coarse grained, greenish-grey color. 1" qua	ctz	Ì		245.5	275.5		1	1	
			stringer from 246.5 to 247.5 along coro. Medium							1		L
I			grained patch at 265.0									
200			Diabase, fine grained, somewhat sheared. Quartz-car	oon-		I	275.5	279.3				
I	T j		ate stringers; fine black streaky mineral at 278.5	I_		l				I	I	["
			Diabase, coarse grained, light grey-green color. A		II	1	279.3	295.0			i	
]			few finer grained patches			1						1
			Dinbase(?) Fine grained, light green color, somowha	t]		<u> </u>	295.0	296.0				
250			sheared and fractured									
			Rusty seam. Diabase, fractured and altered, heavily				296.0	296.5		L		
İ			coated with rust and hematite. Appears to be			1			1			
i			brecciated		1				1	1		1
i			Diabase, fractured and altered, small seams and spot	3			296.5	298.0				L
300			of rust and homatite; greenish color	-						L		1_
I						.				1		
												L
	į								1			L
						1	1			1		Г



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Teller |

PROMING OF HOLK TOTAL POOTAGE DIP OF HOLE AT

FILL IN ON HOLE NO. PAGE NO. 2

FIXED POINT ON THE CLAIM

DATE HOLE STARTED	DATE COMPLETE	DATE LOGGED	LOGORD BY	1, 1					LOCATION	ITA, La, C	on. OR Lot.	. and Langs	5
the second secon		Maria and the constraint of the property of the constraint of the	SUBMITTED BY (Signature)										
XPLORATION CO , OWNER	OR OPTIONEE	DATE SUBMITTED	SUBMITTED BY (Signature)	"1	ł								
•									PROPERTY	PHAME			
				1-1-1				,	<u> </u>	,			
POOTAGE	HOCK TYPE		DESCRIPTION				*****	<u></u>		SAMPLE		ASSAYS +	
FROM TO	•	Dinhago coargo to	fine grained, fraction	on, etc. የተገነ ሦስቭ "ጃሃነሽ" ጃ 1 ተልሦልቭ "	M811.	7007448 1	444969	700 A	10	LENGTH			
		fine seams of hema		turca and arterea,				298.0	300.0	 			.
ran make		Tine seams of nema	ninal Tible agains					700 0	320.0				
· · · · · · · · · · · · · · · · · ·	7-	Diabase, Coarse gr	ained, light grey-g ne grained, light g	reen color		- .			322.5				
350	en en en en en en en en en en en en en e	Diabase coargo gr	ained, grey-green o	Olor Fine grain-					377.7				
330		ed patches from 37	8.5 to 329.8, and 3	58 0 FO 350 0				322.3	3//./	 		 	
			ned, 2" quartz vein			7		17777	379.2	·			
<u>-</u> 2 - 2 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -		Quartz dark grey o		1100 00 370.2					3,3.2	· · · · · · · · · · · · · · · · · · ·		·	
			coarse grained, gr	nendsh color				379.2	415.7	·			+ .
400			ned, rather streaky						419.5		,		+
. 109			z-carbonate at 419.		1			1			,	- ,	- i
			ained, green color	T	-			419.5	422.0	1			
			ned, groonish-grey,	slightly sheared	1.		-		445.5			-	1
		and altered. Nume	rous small stringor	s quartz-carbon-		†	-	1.1.1.1		h			
450		ates			1	1	·		•			•	-
		Diabase, fine to m	edium grained, grey	color	1			445.5	448.0		1		İ
			ained; appears to h		1				461.5		-		
			. Chalcopyrite ald						200.70				1
	•	(1/8"). At 453.0	small spot chalcopy	rito in quartz								1	+
500		stringer		· · · · · · · · · · · · · · · · · · ·		1	1						-
		Diabase, fine grai	ned; cut by numorou	s veinlets and				461.5	465.0	1			+
	•	veins of quartz ar	ned; cut by numerou d quartz-carbonate.	Several small			I		1	1			-
		spots and streaks	of disseminated cha	lcopyrite at	T			1		-		†	+-
	• •	461.5 and 464.0			1	1	1		1		l	-	-
550		Diabase, medium to	coarse grained; vo	ry slightly shear-		1		465.0	475.0	3.00			
			umorous small strin										
			tz-carbonates, Spe	ck of chalcopyrite									T
	•	at 467.2	and the second second second second										T
			ned, sheared and a					475.0	482.5				I
600		stringers of quart	z and quartz-carbon	atos			1						I
				and the same was transport of the same of				-					
1 1							l	1	1	1	ı		1



Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

LL IN ON HOLE NO.

DRILLING COMPANY

COLLAR ELEVATION

DATE HOLE STARTED

DATE COMPLETED

DATE SUBMITTED BY (Signature)

(1)

PROPERTY NAME

EVERY PAGE

EVERY PAGE

LOCATION OF HOLE IN RELATION TO A MAP REFERENCE NO.

COLIMN O...

LOCATION OF HOLE IN RELATION TO A MAP REFERENCE NO.

LOCATION (Tp., Let, Cen. OR Let. and Leng.)

(1)

PROPERTY NAME

XPLORATION CO., OW	NER OR OPTIONEE	DATE SUBMITTED SUBMITTED BY (Signature)	fo	i						
			fr				PROPERTY		 	
			fr				PROPERT	HAME		
FOOTAGE	ROCK TYPE	DESCRIPTION		PLANAR FEATURE S	0V#	SAMPLE	POOTAGE	SAMPLE		ASSAYS +
FROM TO		Colour, grain size, texture, minerals, alteration, etc.		ANGLE . P		FROM	TO	LENGTH		
		Lost core 475.6-476.5				475.0	482.5	(cont	inued)	
		476.9-477.6								
		479.6-480.0								
650		Diabase, medium to coarse grained; altered	and fract-			482.5	501.5			
		ured in spots.								
		Lost core 486.5-487.0								
		Diabase, fine grained, sheared and altered	. Core badly			501.5	504.0			
		broken								
		Lost core 503.2-504.0								
700		Diabase, medium to coarse grained; grey-gre	een color,			504.0	567.5			
		a few fine grained patches					!			
		Diabase, finet to very coarse grained. Co.	arse grained			567.5	577.5			
		patches at 567.5, 569.0-571.5, 574.5-576.0	. These					1		
		patches are almost pegmatitic in texture.	Coarse							
750		grained patches show numerous secondary min	nerals in-							
		cluding epidote					i		1	
		Diabase, medium grained with small patches	of fine			577.5	643.3			
		grained, and others coarse grained. Finer	grained to-		Ī					
		wards 643.3.								
800		Diabase, medium to coarse grained with some				643.3	793.0			
		grained patches. Alteration and secondary	minerals,							
		such as epidote are usually found in the c	oarse grained					T		
		patches. A few small quartz-carbonate str	ingers. Fine					1		
		grained patch from 731.5 to 734.0. Core c	onsiderably					1		
850	The second of decide to the second of the se	fractured and broken.						1		
		Lost core 762.2-763.0					1	†		
		783.6-784.								
		Diabase, medium grained, slightly sheared	and altered	1		793.0	816.0	X	1	
		Diabase, medium grained at start, becoming	progressively	,			841.0			1
900		coarser grained. Very coarse grained and	heavily					1		
		altered from 834.5 to 841.0					T	1		
								1	1	†
					 				†	<u> </u>



ECEVATION

Start a new page for every new hole, but fill in rep parties of form only on first page for each hole.

AND HOLL TOTAL POOTAGE DIP OF HOLE AT

FIEL IN ON HOLE HO. PAGE NO. 2

				1	1	celler	ł					54.			
DATE HOLE STARTED	DATE COMPLE	TED	DATE LOGGED	FOOGED DA		6.	1				COCATION	ITA, Lo.	Con OR La	. and Lang.	J
XPLORATION CO., OW		er enne den er a sårater som som en en				J	4				1	- 1		:	
APEONATION CO., ON	NEW ON OPTIONES		DATE SUBMITTED	SUBMITTED BY (31)	pacture)	10.1]				İ				
				1		• 1	1				L				
							4				PROPERT	Y HAME			
POOTAGE				DESCRIPT	104	10	 	γ			<u></u>	,	·		
PROM TO	ROCK TYPE		Calaur	grain size, texture, m	. •	_	PEATURE		10110 100PLB)	POOTAGE	SAMPLE		ASSAYS +	
	TO COMPANY AND AND AND AND AND AND AND AND AND AND	Alterati	on consists	of carbona	tos, epidol	A	more.	7007408 4		FROM	10	LENGTH			
	* · · · · · · · · · · · · · · · · · · ·			e 819.7-820						010.0	841.0	(cont.	nuea)		
	A SECTION OF THE SECT			830.8-831		maken and an analysis of the second control of the second		 		 	<u> </u>				
***************************************	5 G		errene sommenmen og det og det gar	835.6-836			 	ļ		 	<u> </u>				
950	refer the measurement of the second section of the section of the second section of the	Diabase.	medium gra			OF	 	ļ	ļ	I WAT W	855.6				
A COLUMN TO THE REAL PROPERTY OF THE PARTY O	***		Lost cor	o 844.4-845	.0		ļ		ļ	041.0	033.0				
		•		854.6-855		and the second of the second o				 	ļ				
**************************************	· · · · · · · · · · · · · · · · · · ·	Diabase.	fine to me			y color. A	·	 	 -	REE	875.0				
			ose seams			2	ļ			033.0	0/3.0				
1000		7 7 11 721.7		e 862.1-863	.0	ويتوالي والمتعارض والمهاد بالمالية	 		ļ	-	 		<u></u>	<u> </u>	↓
		1		865.5-866	0	arment of the cour					 -				-
		Diabase.	fine grain			ليوينهها ينو يعفون فالعاد بالمعاهاة				1875 A	880.0				.
		Diabase.	medium to	coarse grai	ned: very c	coarse in spots					912.4			 	
		A few qu	artz string	ers. Consl	derably alt	ered from				1000.0	712.4				-
1050		898.0 to	908.0							·}					
				fine graine	d. Progres	sivoly more				א כדם	923.0			L	-
	•	sheared.	Heavily s	heared sect	lons appear	to be made up		.		1312.4	723.0			ļ	+-
		of strea	ky fine gra	ined green	material wi	th streaky				 -		<u></u>		ļ	┷-
	=	stringer	s of quartz	and quartz	-carbonates	th streaky			<u> </u>	 	ļ		 	 	4_
1100		and quar	tz carbonat	os 920.0-92	0.6				 	 				 	_
				e 923.0 to		The state of the s		·		 		 -	 		┦
		Diabaso,	sheared an			wartz and	 	 	 	931.5	932.7	 	<u> </u>	ļ	-
		quartz c	arbonates		The state of the s	The state of the s		 		1		 	<u> </u>		4
	• • • • • • • • • • • • • • • • • • •	Quartz,	white to gr	ey. Spots	of sheared	material and			†	932.7	933.3	ļ		 	+-
1150		C& Thonat	CS		The state of the s	where the second			 	-		 			╃
		Diabase,	sheared.	Carbonates	and some qu	artz				933.3	933.8	 -	 	<u> </u>	┵—
		Quartz,	white to gr	oy; some sh	eared mater	ial and car-	1		<u> </u>		935.0	 		 	+-
		bonates									† · · ·			 	+-
			e to grey a						 	935.0	936.0	 	<u> </u>		+
1200		40% shea	red diabase	and carbon	ates						+	 	 		4-
									———		 	 			+-
	The state of the s					* 			t	 	 -	 	 		
						en la companya de la companya de la companya de la companya de la companya de la companya de la companya de la			 -	<u> </u>		·	 		



Start a new page for every new hale, but IIII in top parties of form only on first page for each hole. FILL IN ON HOLE HO. SHETHO COMPANY EVERY PAGE ECEVATION ANSTINATOR HOLY LOAVE LOOLVOR DIE OL HOFE YA PIXED POINT ON THE CLAIM CLAM NO. SATE HOLE STANTED coller DATE COMPLETED DATE LOGGED LOGGED BY LOCATION (Tp., Let, Con. Of Lot, and Long.) h EWLORATION CO., OWNER OR OFFICHEE DATE SUBMITTED SUBMITTED BY ISland bury

		DATE SUBMITTED	SUBMITTED BY (Signature)						1				
				"1	-				PROPERT	YNAME			
POOTAGE				11									
NOM TO	MOCK TYPE	C. V.	DESCRIPTION		PL 44 48	-	7000	BAMPLE	BOATOCS	SAMPLE		ABBAYS +	
	to make the late a secondary of the contract o	95% white to gray	grain else, testure, minerale, alteration, etc quartz. Somo white ca	l. Britis k kom moore emercing		700 Met 1	*****	FROM	10	LENGTH		7	Т
		Small amounts of sl	haves bone wille ca	roonates.				936.0	939.	4		 	+
	10 miles	Diahaso sheared	30% quartz-carbonates	to region to the state of the s									4
	The second secon	Dichago sheared	The quartz-carbonates	Bernarian and an arrangement of the second		1			940.8				٠,
50	many and in the control of the control of the control	bonatos and altora	stringers and small pa	tches of car-				940.8	944.2	†I	-		-4
	the second second second	Diabaga mazina ra						 	 	 			4
- ,		Dinbase, medium to	coarse grained	The state of the s	 	 		944.2	952.8	 			4
		Diabaso, modium to	coarse grained; light	alteration				952.8	964.0	 			4
· • •		Diabaso, medium to	Tine grained; lightly	shoarod.	1				966.5	· 			-
00		Quartz-carbonato st	ringers. 1" grey quar	tz at 966.0		•			-	 			4
,0		Slight pyrite along	slip at 965.9	· · · · · · · · · · · · · · · · · · ·					·	<u> </u>		ļ	_
1	,	Los	t core 964.2-965	And the second second					<u> </u>	<u></u>		L	
-			966.5-967.5							ļ			1
		Diabase, medium to	coarse grained. 13"	quartz-carbon-				967.5	י דכחדו				I
1 1		ato at 9/1./							1027	1			T
		Los	st coaro 993.5-995.0		ł				L	1	,		Ī
1		Diabase, medium ara	ined: patches fine or	-fa buc benin				n		1 1			Ī
j		torod. Fine graine	ed patches usually show	w light wharing				027.5	1035.0	1 I		#· = .	1
1 1		Quartz-carbonate st	ringer at 1025.8 shows	n light			**** ********		L	1			1
i		pyrrhotito	7 - 1 - 1 - 1 - 1 - 1 - 1							I I			t
i I		Diabase, modium gra	ined; groonish color,	Tightiu Alfan					I				t
i i		ed. Patch of quart	z and alteration 1049	7_1050 7				035.0	1057.5				†
		shows light pyrrhot	Ito and chalcopyrite	.7-1030.7	 					1			t
		laths of hornblonde	area and charcopyrice a	and Coarso									ł
1		Diabase, modium are	ined, lightly sheared	7.7.1 37 1.11						<u> </u>			+
1		stringers quartz an	d quartz-carbonatos	. Numorous		Ī	1	057.5	1063.4	A 440 C			ŀ
		Overta white to an	Timbi Fin			· · · · · · · · · · · · · · · · · · ·							-
		converte around on	oy. Light fine pyrrhe	otice and chal-		1	1	063.4	1064.6	· · · · · — · •			ļ
		Dinhage modition	bonate stringer at 100	54.0						·			+
1		Numerous ===11	ined, lightly sheared	and altored.				064.6	1069.				¦ -
-		Managons small days	tz-carbonato peringers	3.	_								Ļ
		and the second s		The second secon									1
en de la lace	MARINE OF ST AND AND MARINE.		en la companya de la companya de la companya de la companya de la companya de la companya de la companya de la	ير چيريو د مده د ده د									L
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FILL IN ON HOLE NO. PAGE NO 6

ON MICO								EVENTINOS	<u> </u>	
COMPANY		ELEVATION	BEUTHERS HOUSE	TOTAL FOOTAGE	DIP OF HOLE A	T .	FIXED POINT ON THE CLAIM	MAP REFERENCE NO.	CLAIM NO.	
		1		1	celler		-	1	1	
DATE HOLE STARTED	DATE COMPLETED	DATE LOGGED	LOGGED BY		1		7	LOCATION (Tp., Let, Con.	OR Let. and Lang.	
	f		1		h					
ERPLORATION CO., OWNER	00 00710455	DATE SUBMITTED	BURNITTEN BY KE	ene tura!		•	1	1		
EMELINATION CO., OWNER	ON OF HOREE	DATE 303411120	100000000000000000000000000000000000000	J.	* 1		1	1		
			1		6.1					
					 "		-	PROPERTY NAME		
			1		6.1			1		
			<u> </u>		<u> </u>		<u> </u>			

					ft					PROPERTY	NAME	
FOOTAGE				DESCRIPTION	6	PL AN AR	CORE	Your .	SAMPLE	FOOTAGE	SAMPLE	ASSAYS +
ю то	ROCK TYPE		Colour,	grain size, texture, minerals, elteration, e	e.		SPECIMEN FOOTAGE +	BAMPLE	FROM	то	LENGTH	
		Diabase,	medium gra	ained; narrow quartz s	tringers (1")				1069.2	1164.	0	
	and the second section of the section of t	ac 1073.	0 (with ep	idote stringers) and a	£ 1083.0.							
		Fairly m										,
		Diabase,	medium gra	ained						1188.		
		Diabase,	dark grey	-black color, finer gr	ained. Sil.				1188.5	1195.	0	
				192.0-1193.0								
		Greywack	e, possibly	y quartzite, light gre	y, fine grained				1195.0	1196.	0	
				1196.0-1204.0								
		Greensto	ne, fine g	rained, dark color						1210.		
		Sil. ble							1	1211.	1 1	
		Greensto	ne, fine g	rained, dark color					1	1212.		
		Diabase,	fine grain	ned, grey, contacts gr	aditional			1	1212.0	1215.	5	
		Diabase,	fine to me	edium grained. 3" of	medium coarse			1	1215.	1227.	U	
		at 1222.	0. Contact	ts gradational								
		Greensto	ne, dark g	reen. Contacts not de	finite					1243.		
		Quartzit	e, pink to	grey					1243.	1286	4	
	and the same of th		Lost core	1254.0-1257.0			I			I		
				1271.0-1273.0				<u> </u>				
				1275.0-1276.0		1						
1	-	Greensto	ne, fine g	rained, dark green. (radational				1286.	1298	.0	
		contact,	some carb	onate ribbons								
			1298.0 E	ND OF HOLE Chec	k logged by Par	son,	une 2	, 194	8	 	-	
		Diabase,	fine grain	ned at base		<u> </u>		<u> </u>		1190		
		Greywack	e ? as in	Hole #1		<u> </u>		<u> </u>	1	1243	1 1	
Ĭ		Greywack	e as in Ho	le #l					1243.	1298	.0	
										I		
						<u> </u>		1				
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		1					1					
	The state of the s	1				1	I	T	1	1	1	



THE MIN	NG ACT - DEPARTMENT	OF MINES			Start a new page for	DATUM every new hole, but fill in top on first page for each hole.	01	ngral Aim	ъ ; 503	AKE 88a	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ILL IN ON VERY PAG		PAG
MILLING COMPANY			COLUATION,	South 10°E	TOTAL FOOTAGE	DIP OF HOLE AT	i	N OF HOLI		TION TO A	HAP NEF	RENCE NO.	CLAHN H	
May 24, 19	DATE COMPLETO	,	DATE LOGGED	LOGOED BY			LAT	1.85°	EAST AL Flom 13	ONG PICK INE "R"	Den	Chale	SOUTH I	Long.)
KPLORATION CO., OWN	ER OR OPTIONEE DEPTH 344	/	DATE SUBMITTED	DIRECTION COLLAR 50°	AT START:	fr	DEP.	150'	NIDPW	1 FROM+	10			- EA
				COLUMN 30	344 ¹ 46°	11		•	01701.		PROPERT	Y NAME		
FROM TO	ROCK TYPE		Colour	DESCRIPTI , grain size, texture, mi		ı.	PLANAR PEATURE ANGLE	CORE BPECIMEN POOTAGE +	YOUR SAMPLE RUMSER	SAMPLE FROM	FOOTAGE	SAMPLE LENGTH	ASS	AYS +
		Casing Diabase								0.0	1.			

F^^*	AGE		DESCRIPTION			T	1 ****					
		ROCK TYPE		PLANAR		-		· · · · · · · · · · · · · · · · · · ·	SAMPLE	<u> </u>	ASSAYS +	_
ROM	70		Colour, grain size, texture, minerals, elteration, etc. Casing	Mers.	P00746E +	HUMBER	FROM U.U	70 8.0	LENGTH	<u> </u>		+
			Diabase				8.0	65.0	1			1
			8.0-12.0 medium to coarse grained			<u> </u>	0.0	03.0]			\perp
	+		12.0-37.0 darker, finer grained, less diabasic			ļ	 	<u> </u>				1
50			37.0-41.5 medium to coarse grained			ļ	 	ļ <u> </u>				1
		and the second second	41.5-43.0 dark, fine grained				 					1
			43.0-44.0 slightly sheared, 1" patch of carbonate	<u></u>			 	<u> </u>		ļi		1
			at 42.8				 		 			+
							 		 	 		+
100			44.0-46.0 slightly sheared 46.0-57.6 medium to coarse grained	 		 	 		ļ			+
100			57.6-64.0 dark grey, fine grained, slightly	ļ		 	 	 	 	}		+
			sheared with irregular ribbons and			 	 	 	 	}		ł
			patches of carbonate	ļ		 	 	 	 	}		+
			64.0-65.0 dark, fine grained, sheared				 	 	 	 		+
150			Lost core 65.0-66.5	· ·			 	 		 		+
-50			Diabase; dark grey altered diabase				66.5	67.0		 		+
		· · · · · · · · · · · · · · · · · ·	White, rusty, vuggy quartz				67.0	68.0		None		ł
		<u>.</u>	Lost core 68.0-72.0			 -	<u> </u>		 	ļ- -		t
			White rusty quartz with considerable carbonate,	 			72.5	76.0		Trace		+
200			quite vuggy	 					 		<u> </u>	+
			Lost core 76.0-77.1			 -	 	<u> </u>		 		+
			White, rusty quartz, vuggy			 	77.1	78.2		None		+
			Lost core 78.2-80.0			t	 	 	 			t
			Quartz			İ	80.0	80.7	ļ		 -	+
250			Lost core 80.7-82.1	-			†	†	 	<u> </u>		t
		·	Grey fine grained sheared and altered diabase. Shear-	1			82.1	87.8	 			+
			ing at 20° to core				1		1			†
			As above with 50% rusty quartz and carbonate	1			87.8	88.5		<u> </u>		†
			Lost core 88.5-89.0									†
300			Diabase, grey-green; slight elongation at 20°				89.0	91.0				†
									T			1
		territoria de la compansión de la compan								1		1
										<u> </u>		1



Start a new page for every new hale, but fill in top parties of form only on first page for each hale.

FILL IN ON

OLE NO. PAGE N

EXPLORATION CO., OWNER OR OPTIONEE

COLLAR PAGE
PROMITIVE NORTH TOTAL FOOTAGE DIP OF HOLE AT COLOR PROMITIVE NORTH TOTAL FOOTAGE DIP OF HOLE AT COLOR PROMITIVE NORTH CLAIM

LOCATION OF HOLE IN RELATION TO A MAP REFERENCE NO. CLAIM NO.

FIXED POINT ON THE CLAIM

LOCATION (Tp., Let, Can. OR Let. and Lang.)

FOR THE HOLE STARTED

DATE SUBMITTED BY (Signature)

(1)

PROPERTY HAME

				1						PROPERT	Y NAME	
	<u> </u>			DESCRIPTION	+1					<u> </u>	1	
FOOTAGE	ROCK TYPE		. .				CORE SPECIMEN	1008 SAMPLE		FOOTAGE	SAMPLE	ASSAYS +
ROM TO		+ = -		grain size, texture, minerals, alteration,		MOLE	7007A6E +	*****	FROM	TO	LENGTH	
				er grained; speckled	appearance		ļ	<u> </u>	91.0	100.	'	
				100.0-101.0	(*		<u> </u>	<u> </u>				
		Diabase,	grey-gree	n slightly sheared 3	to core		<u> </u>		101.0	120.	1	
				orite with vuggy carl	onate				<u> </u>	<u> </u>	<u> </u>	
350		 	stringers				<u> </u>		<u> </u>	<u> </u>		
		117.0	-120.1 90%	vuggy carbonate			<u> </u>		 	 	<u> </u>	
	<u> </u>			ned. grey, slight eld	ongation			<u> </u>	120.1	130.	1	
<u> </u>				rtz-carbonate			<u> </u>	 	<u> </u>			
	 .		dark, fin					<u> </u>	130.1	154.	9	
				ghtly sheared ribbon	of quartz				<u> </u>	<u> </u>		
			cutting at	30° to core				<u> </u>		<u> </u>		
			rbonate at				<u> </u>		<u> </u>			
				carbonate			<u> </u>					
		Diabase,	medium to	coarse						158.	1	
		White, r	usty quart	z, vuggy	a - contractor contractor contractor				158.0	160.	q	
<u> </u>	<u> </u>	Diabase,	medium to	coarse					160.0	205.	d T	
			Lost core	163.0-164.0				L				
<u> </u>	<u> </u>	Diabase,	containin	g some finer grained	sections				205.0	224.	0	
		Diabase,	medium to	coarse					224.0	344.	0	
		265.0	-270.0 seo	m epidote alteration ck, fine grained y, slightly sheared								
		308.0	-313.0 bla	ck, fine grained								
		313.0	-316.0 gre	y, slightly sheared			1			1		
•				* ******			1	1	1	1		
	T	T				1			1	T	!	
<u> </u>	1		·- · · · · · · · · · · · · · · · · · ·				1	T	1	1		
		344.0	END OF H	OLE			1		1	 		
								<u> </u>		1		
	1						1					
	1						†		1	1		
									1	1	 	
	The second secon				A COLUMN TO THE PARTY OF THE PA		1			1		
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					· · · · · · · · · · · · · · · · · · ·		1	†		 	1	
	•	<u> </u>		· · · - · · · · · · · · · · · · · · · ·			+	 	+	 -	 	

AFTON CLAIMS AREA.

CLAIM: 50388

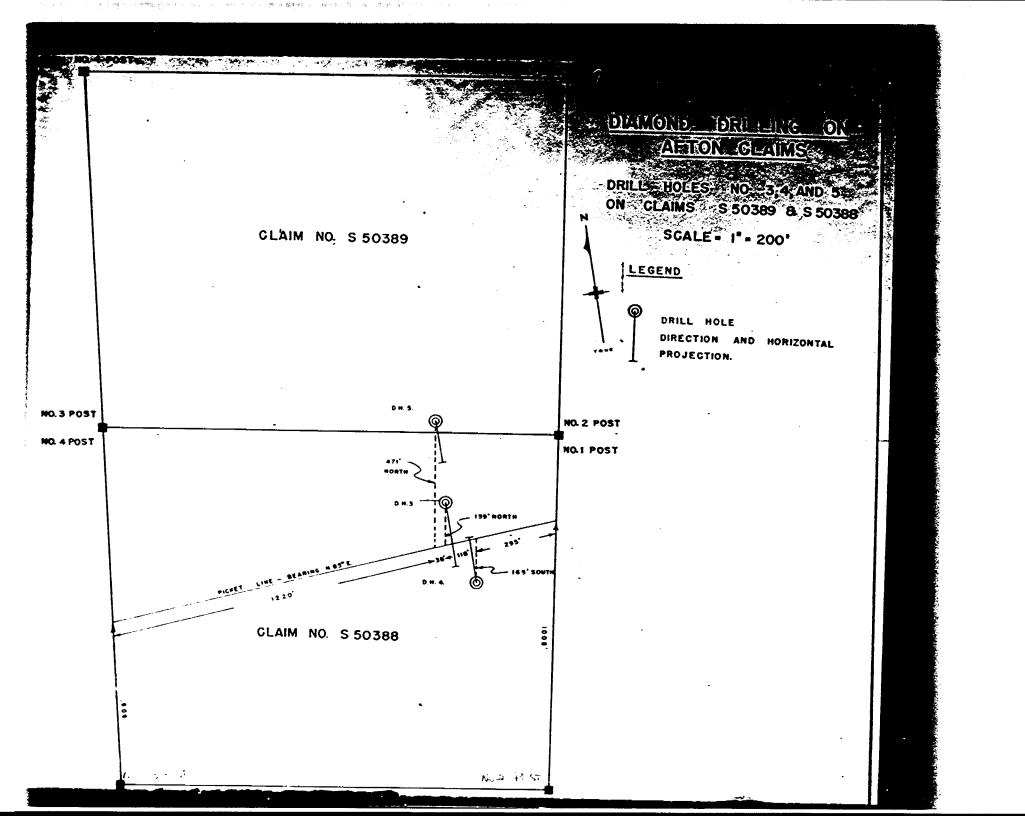
THE MINING ACT - DEPARTMENT OF MINES MAMOND DRILLING LOG

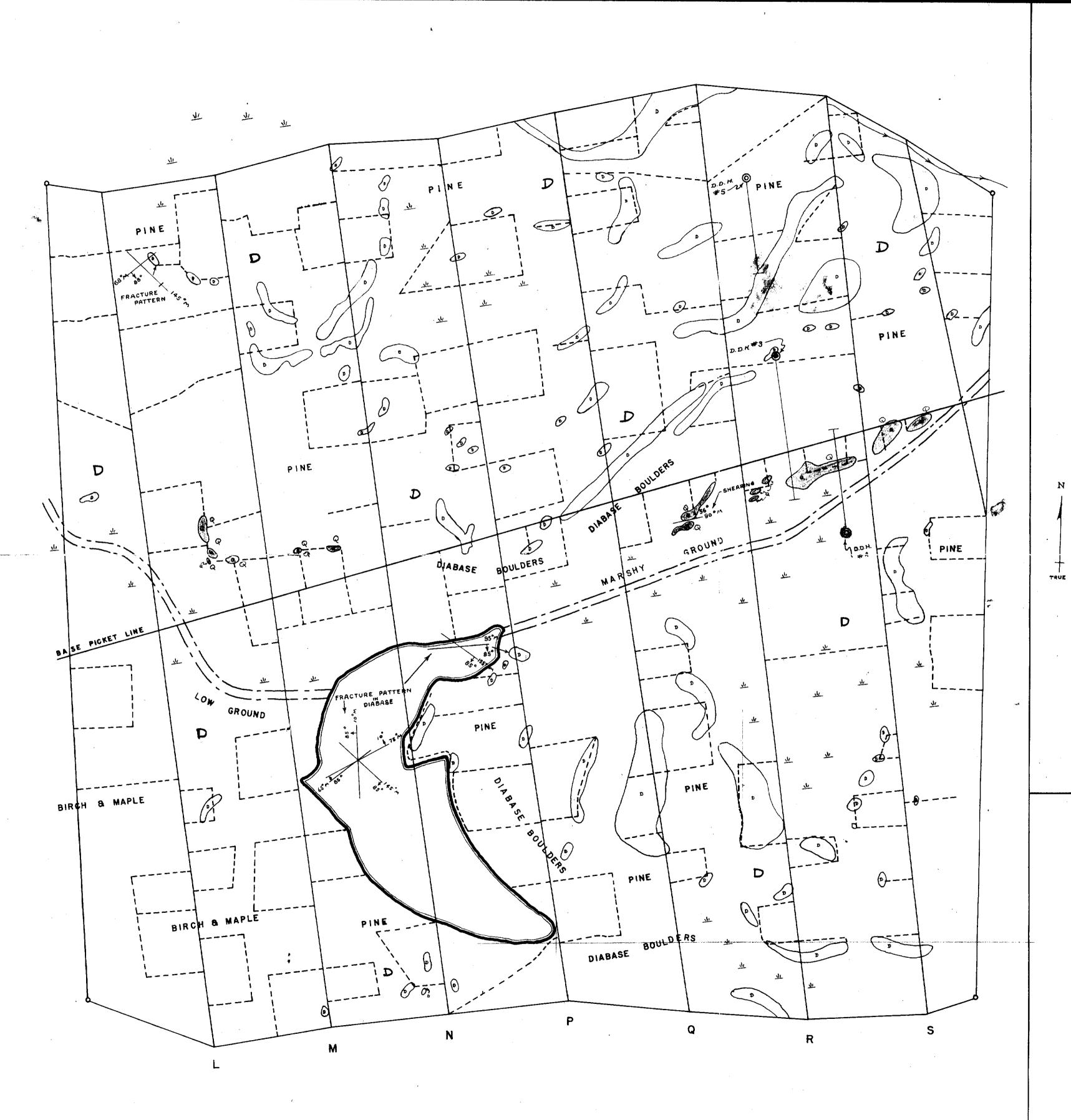
Stort a new page for every new hole, but fill in top parties of form only an first page for each hale.

HOLE HO. PAGE NO EVERY PAGE LOCATION OF HOLE IN RELATION TO A MAP REFERENCE NO. CLAIM NO.

CHILLING COMPINEY			COLLAB	PEARING OF HOLE TOTAL FOOTAGE	DIP OF HOLE AT	11.0047	ON OF 1161	2 M 62: **			VERY PAG		1
			COLLABION VIII707	PROM TRUE HORTH	coller			_	I ION TO A	MAP REFE	RENCE NO	. CLAI	M NO.
ME MOLE STARTED		ED	DATE LOGGED	LOGGED BY	CO1107	7600	ATION	J		LOCATION	(Ta. Las (Can. OR Let.	and I am a V
MAY 29	1948 MAY 31	1948 /			ft	1			Aal		(- ps, cor, (OR C87.	- and Langu
EXPLORATION CO., C			CATE SUBMITTED	SUBMITTED BY (Signature)	- "	. LH	· 300' 64.≤	3106	1 45				
	ULTIMATE D	EPTH	-	DIRECTION AT START		7	44.3	6 10° 1	NOF	1			
	2	112		BEARING: NORTH 10'4) 	-	HOM	E NO.	· 3.	PROPERT	Y NAME		
	<i>d</i>	T. W.	<u> </u>	DIP. 8 450	10 1								
POOTAGE	ROCK TYPE			DESCRIPTION		PLANAR	CORE	TOUR	SAMPLE	FOOTAGE	SAMPLE		ASSAYS +
<u> </u>			Colour,	grain size, texture, minerals, alteration, e	te.	PEATURE	POOTAGE +	NUMBER	FROM	TO	LENGTH		
		Casing							0.0	9.0			
		Diabase							9.0	242.0			
		32 5	-33.5 medium	to coarse grained									
50		33.5	-31.0 dark,	fine grained, speckle hed, silicified, a fee	a appearance								
		37.0	pyrit	a silicilied, a let	specks of								
		38.0)-76.0 mediu	m coarse grained				ļ					
		76.0	78.0 grev-	green, slightly shear	ed with some		ļ		<u> </u>	<u> </u>			
		<u> </u>	carbo	nate stringers	d, with some		ļ		 	-			
100		78.0)-120.0 medi	um coarse grained			 		 		ļ		
		120.0-1	27.0 grey,	fine grained; slightly coarse grained	/ silicified			}	 	 		 	
		127.0-1	70.5 medium	coarse grained			 	 -	 	-	 	 	
		170.5-1	72.0 dark.	fine grained		· 			 	 	 	 	
		172.0-2	38.0 medium	coarse grained fine grained		·		 	 	 	 	 	
150		238.0-2	240.0 dark,	fine grained		-			 	 -	1	<u> </u>	
		240.0-2	242.0 medium	coarse grained					 	 	·	 	
		<u> </u>	~							 	 	 	
		<u> </u>				1				 			
		<u> </u>								1	1		
		+ • · · · · · · · · · · · · · · · · · · ·											1
		 											
200		·	3/5 A	END OF HOLE									
			242.0	END OF HOLE									

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		I				+			 	 	 		





AFTON TWP.

SCALE: 1" = 100'

DETAIL OF CL. 50388

LEGEND

D DIABASE

QUARTZ

TRAVERSE

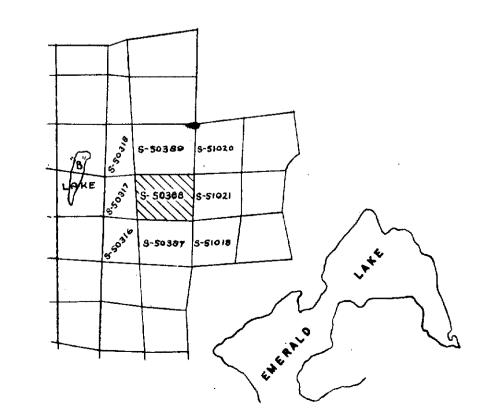
___ WINTER ROAD

DIAMOND DRILL HOLE

DIRECTION & HORIZONTAL PROJECTION

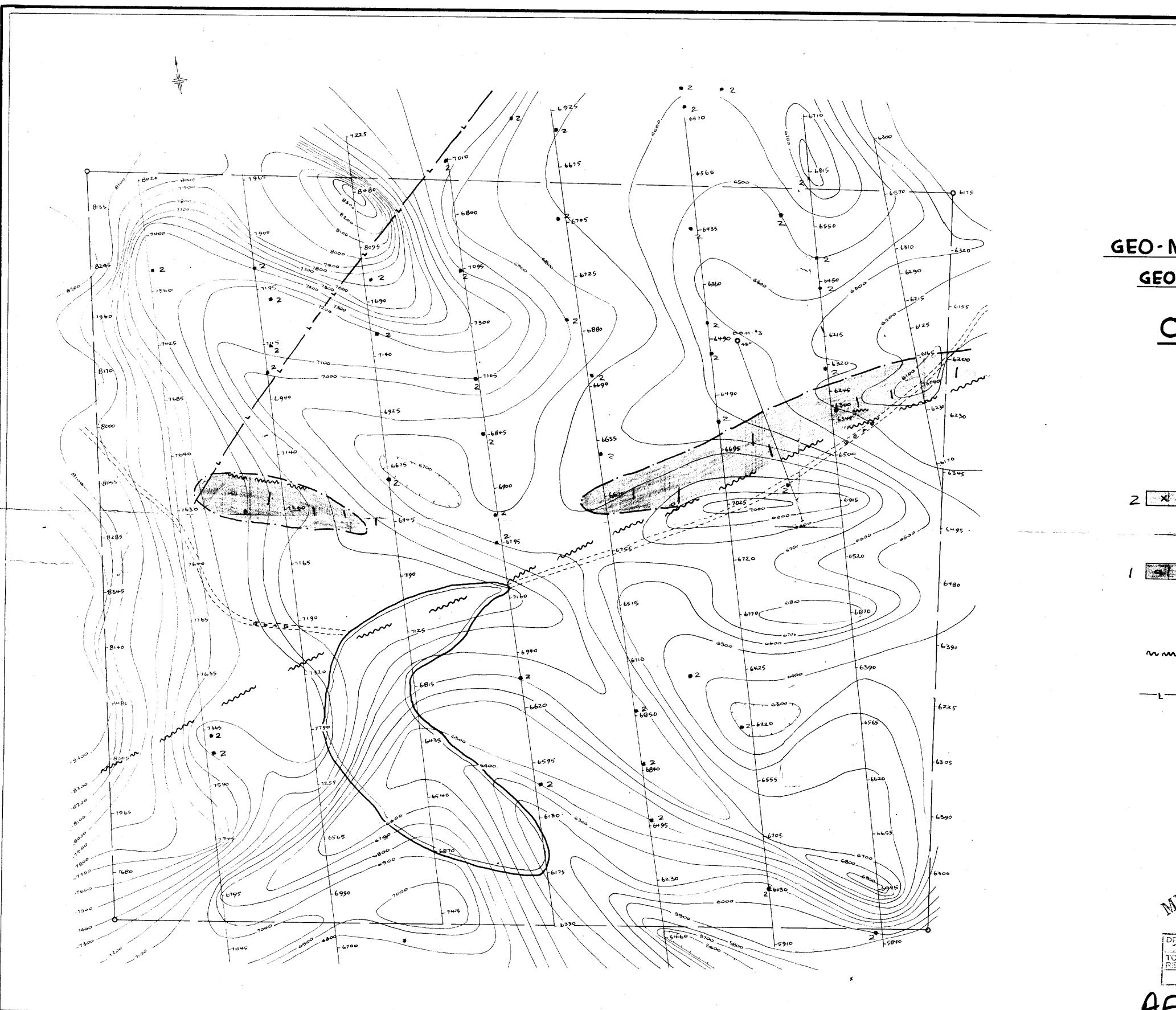
LINES L-S ARE PICKET LINES

KEY MAP



AFTON-0019 #4

4115NW0057 0019 AFTON



GEO-MAGNETIC CONTOUR MAP GEOLOGIC INTERPRETATION

CLAIM S-50388

CENTRAL AFTON CLAIMS DOMINION GULF CO. TIMAGAMI AREA

SCALE - 1" · 100 FEET

LEGEND

2 DIABASE, SHOWING OUTCROP OBSERVED

QTZ. ZONE, WITH SERICITE SCHIST, ANKERITE ALTERED SEDIMENTS AND SOME ACIDIC INTRUSIVE, SHOWING OUTCROPS OBSERVED

MM INTERPRETED FAULT

-L- LINEAMENT, POSSIBLE FAULT

- GEOLOGY BY C.M. BARTLEY

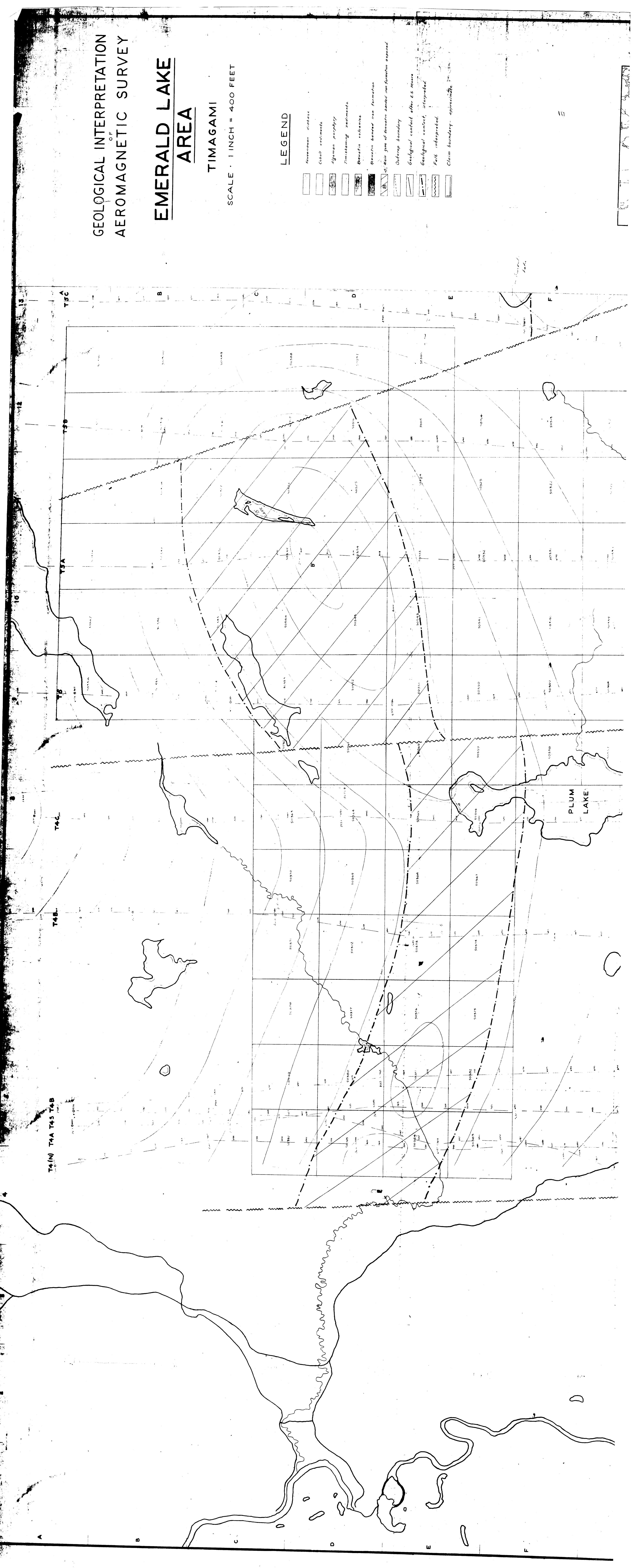
CORPORATION - LIMITED CONTORONTO, ONT.

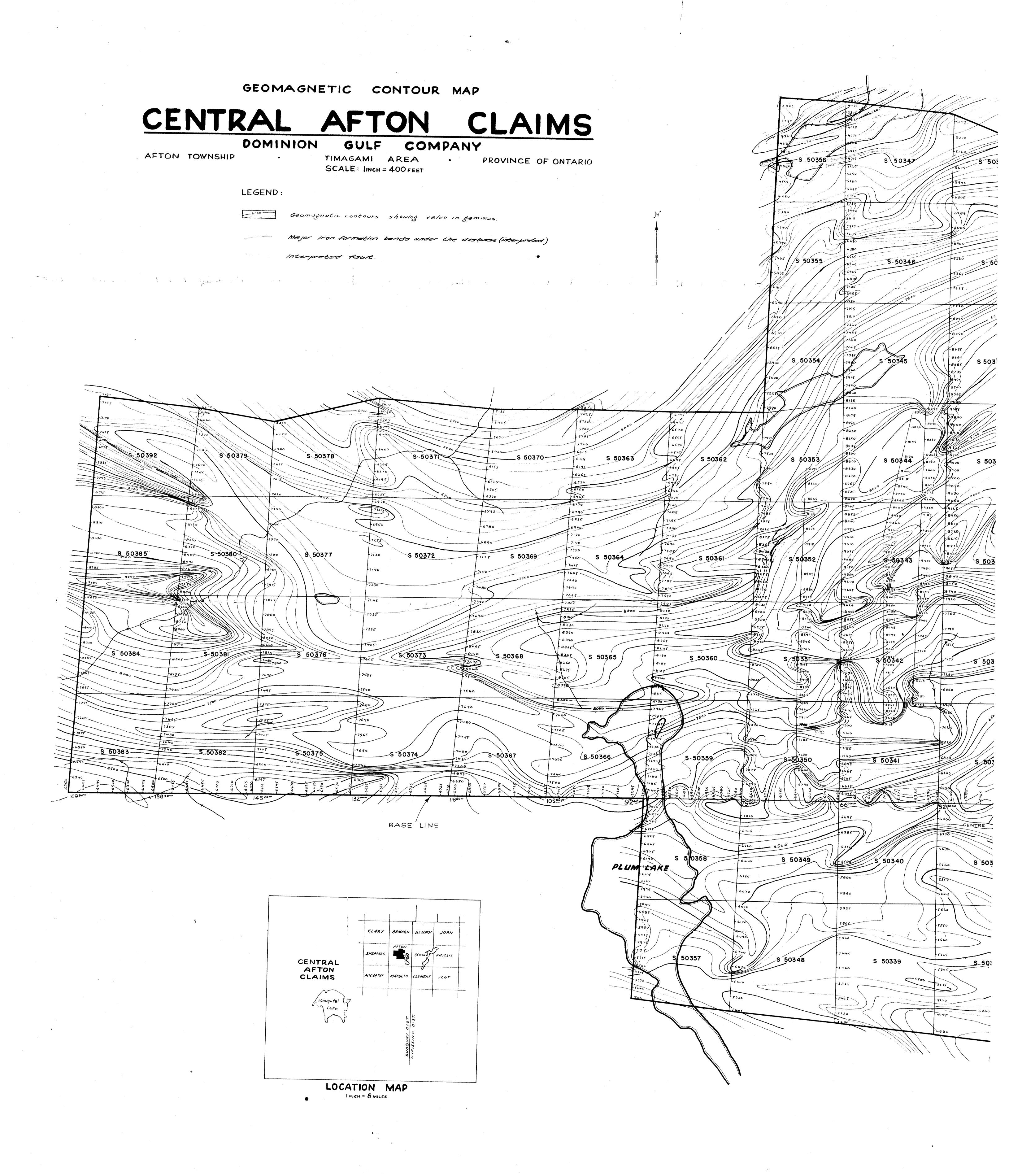
DRAFTED BY:

/// Count

TO ACCOMPANY
REPORT:

AFTON-0019





GEOLOGY CENTRAL AFTON CLAIMS COMPANY DOMINION GULF PROVINCE OF ONTARIO TIMAGAMI AREA AFTON TOWNSHIP MARCH 15th - AUGUST 28th, 1948 SCALE: INCH = 400 FEET LEGEND: Diabase D D Quartz Cobalt S 50346 Streams Winter roads Diamond drill hole direction and horizontal projection. Muskeg Traverse line Fracture pattern or joint Strike and dip of bedding - values magnetic All north-south lines are picket lines except eastern boundries of claims - s-51020, s51021, s-51018, s-51022, 5 51023, s-51019. S 50344 S 50362 s 50370 S 50378 S 50379 S 50364 S 50372 S 50377 S 50342 S 50365 S 50376 S 50381 MIXED FOREST FOREST A S 50341 s 50359 S 50374 S 50375 S 50382 s 50383 PLUM LAKE ARMAGH BELFAST CLARY. CENTRAL AFTON CLAIMS MACBETH CLEMENT MECARTHY *Wanapitei* LOCATION MAP

