42G05SW0013 63.874 TALBOTT

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# ILECTROMACRETIC REPORT

## JATE DUCTION

During the months of July 1956, an electromagnetic survey was performed for Continental Copper Mines Limited, ever 29 claims in Talbott and Scholfield Townships, Catario.

these claims were staked in 1955 to cover several mineralisation consisted essentially of pyrite as stringers and disseminations along bedding planes and did not contain more than traces of base metals. The frequency with which it occurred in outcrope, however, plus the fact that many adjoining claims were subsequently staked on the basis of airborne geophysics suggested that mineralisation was wide-spread in the area. The company therefore decided to explore the claims for an enrichment in the sulphides.

The survey discussed Mathie report was carried out as the first step of a program to explore the property for base metals. It was performed to localize the search for massive sulphide budies, by delineating good electrically conductive somes, in the hope that exception would arise from sulphide mineralization.

Reference is also made in this report to the results of a secondary magnetometer survey which was done on the claims. A discussion of this magnetic work is tontained in a separate reports

## SUMMARI

Fifteen parallel somes of discontinuous conductors, Edge Han with shorter sub-parallel conductors were delinated by the survey. The somes trend is a N-55°E (Ast.) directies and contain individual conductors varying to 2100 feet in length. If put and sales conductors would have a total length of some mine alless.

In several instances the conductors have been verified of from outcrop to arise from sulphides. In the remaining three agentic data has suggested which may arise from shearing or which mineralization, and which would reflect larger mones of salightees. Any of the nonductors could mark as important target, and pack should be examined.

It has been recommended that a recommissance geotherical program be carried out to supply direct evidence for the presents of base metal mineralization under the conductors. Soil samples along short traverses over each conductor will be tested for traves of base metals, and this data along with the results of the magnetic work and some prospecting will be used to select targets to be drilled.

## LOCATION, ACCESSIBILITY AND EXTENT OF PROPERTY

The Continental Copper claims are located immediately south of the Hearst River in Talbot and Scholfield Townships, Sault Ste. Marie Mining Division, Ontario. Scholfield Township lies 26 miles south-west of the town of Hearst, while Talbott which adjoins its western side is diagonally crossed in its northwestern corner by the Algoma Central and Hudson Bay Railways. The approximate longitude and latitude of the claims is 63° - 53° and 49° - 15° respectively. The compass declination, where unaffected by local attraction, is 8° 30° W.

The best means of access is via a  $6\frac{1}{2}$  mile wagon road which extends east from the flagstop of Hansen station. This road is almost completely muskeg and therefore impassable for vehicles other than tractors. Hansen is 32 miles south of Hearst, to which it is joined by the Algoma Central and Hudson Bay Railroad. Train service between the two is daily. The wagon road from Hansen continues through the claims to a small lake near the corner of Lots 25 and 26 Con. 8 and 9 in Scholfield Township. This lake may be landed upon by light aircraft, but its small size makes departures risky.

A good truck road joins Hearst with Horsey, 19 miles to the south, from which additional tractor roads extend to the vicinity of the claims.

The Company holds a group of 28 contiguous claims in Talbott and Scholfield Townships. The claims cross the common boundary of the two townships near its 6 mile post. Seven claims lie in Talbott, while those in Scholfield include the NW 1/4 of lot 34 con. 7; lots 33 and 34 together with the W2 and NE 1/4 of lot 32 and the NW 1/4 of lot 31 in con. 8; the S2 of lot 33, the E2 and NW 1/4 of lot 32, the W2 and NE 1/4 of lot 31 in con. 9. Claim S.S.M. 46969 representing the SW 1/4 of lot 32, con. 9 is not controlled by the Company but was included in the survey because it lies within the property outline and its information would therefore be required for a continuous geophysical picture of the claim group. An outline of the area examined is shown on the key map which accompanies this report.

The list by number of the claims together with the area covered by the survey will be found in the Appendix to this report.

## GENERAL GEOLOGY

There are no detailed geological maps or reports published for this area. Map 412A Geological survey of Canada 1938 for the Hearst Kapuskasing area includes Talbott and Scholfield Townships for which it shows some geology with descriptive notes. As a rule, outcrops of rock are scarce and in some localities almost lacking.

The area is believed to be underlain by rocks of Ameantrian, presumably Archean age. They include segments and volcanics invaded by granitic and dicritic rocks. The sediments are now largely homelanded unce granices which in places form so intricate a mixture with the intrusing granites that both have lost their main characteristics. The volcation are dork due to extensive chloritization. There are a few reported convergness of sulphides carrying copper and gold in the area.

# LOCAL GENLOGY

The immediate area is almost completely covered with maskeg and devoid of outcrops. The Continental Copper claims provide a local exception to this rule by having a fair amount of exposed rock. Such outcrops as were observed during the course of the survey have been included on the accompanying map. A limited amount of prospecting done after the survey was finished, provided additional information on areas between the traverse lines.

Most of the rocks observed were highly metamorphosed and recrystallized sediments with well defined bedding planes. In several instances pyrite and pyrrhotite had developed as stringers and disseminations along these planes over widths up to 15 feet. Samples of these contained only traces of copper, nickel, lead, sinc and gold. Several exposures of dark basic rock were also seen and are thought to be volcanics. Map 411A of the 0.3.0. suggests the claim area is underlain by paragneleses derived from shales, graywackes, arkose and sandatone, and includes narrow bands of basic volcanics with some dioritic intrasives. Observations of the bedding in the sediments suggest a north easterly strike with a vertical or steeply south dip.

Overburden on the claims is thought to be relatively shallow, perhaps at most 50 feet, and in many places less than 10 feet. In several instances it was judged to be residual, with a reddish discolouration due to oxidized sulphides.

# RESULTS OF THE SURVEY

All the results of the survey are plotted on the accompanying map number 1956-12 drawn to the scale of 1 inch equals 300 feet.

Beside each measurement station is shown the inclination in degrees to the horizontal of the resultant magnetic field as recorded. for energiation from a particular transmitter location. Transmitter locations are marked by a triangle and a code number. Series of field readings are blocked off with similar code numbers in circles to show which transmitter location they refer to. All readings have seen profiled on one or the other side of their traverse line depending on the direction of their inclination, to the scale I inch equals 20 degrees. Northerly inclinations (shown negative, are drawn to the left, and southerly inclinations (no sign) to the right.

The presence of a conductive body distorts the otherwise horizontal direction of the magnetic field, so that it is characterised by readings which tilt away from either side of the conductor. Electrical conductor axes shown on the map are the vertical projections of the electrical axis of the target. They are shown solidly where they have been definitely indicated, or dashed where evidence is marely suggestive. Zones of axes have been marked by 1, 2, 3, --- 15, and are latter discussed.

Technical details regarding the procedure followed in performing the survey will be found in the Appendix to this report.

## DISCUSSION OF RESULTS

The purpose of this type of survey is to locate those somes which are good electrical conductors. These will include any or some combination of massive sulphides or graphite, wet faults or shears, conductive interfaces, and in some cases magnetite. A prerequisite for detection is the interconnection of conductive particles so that pods or disseminations may not be located as such. The electrical conductor axes shown on the map will occur vertically above the upper edge of a body whose dip is 45° or more. As the dip of the body diminishes, the location of this axes will move farther down-dip.

The strength of conductor response (for a given transmitter distance) will depend on the conductivity, length and depth in terms of width of the target. A weaker conductor therefore will mark more poorly conducting, deeper or narrower bodies or some combination of these characteristics. Stronger response will arise from the opposite set of conditions. Since it is impossible on the basis of one survey alone to label conductors as poor, fair or excellent with any degree of accuracy, one cannot therefore determine the nature of the conducting body.

A very large number of conductors were located on the claims, so many in fact that if they were put end to end they would total some 9 miles. The majority have been grouped for reference into fifteen parallel zones which trend in a N-55°E (Ast.) direction. Individual conductors within these zones vary to 2100 feet in length. The picture is complicated however by discontinuity and poor definition within assigned zones, plus numbers of shorter conductors which are

scattered between the zones. It is not always clear which additional conductor should be added to a zone, or which zones are merely continuations of others. The whole picture is believed to reflect discontinuous mineralization and/or shearing developed along the bedding planes in sediments which are locally faulted or folded. The results of the magnetic work show that several local departures from normal strike by the conductors can be attributed to minor folding in the bed-rock, and suggest which conductors most likely reflect sulphides. The results of drilling on adjoining claims reveal that narrow graphitic shears may be expected.

- ZONE 1 contains a conductor 1500 feet long with no magnetic corroboration. It lies in a swamp and is believed to reflect deeper or more poorly conductive material.
- ZONE 2 represents a conductor 900 feet long which together with a segment along strike on line 99N cuts across outcrop displaying some magnetism. Both suggest the presence of mineralization and could be directly verified.

A group of scattered conductors lying north of these zones appear to arise from weaker targets with no known surface expression.

- ZONES 3, 4, 5 and 6 all fall along a magnetic zone consisting of short lenticular anomalies, having a discontinuity along line 87N. In several instances the corroborating anomaly is negative as at 30N-14W, 45N-11W, 51N-950W, 78N-7W and 81N-850W, or the conductors flank the anomalies so distinctly that they suggest shearing, as at 15N-1450W, 18N-15W, 60N-10W, 63N-950W, 66N-6W, 72N-5W, 78N-5W, 81N-2W and 84N-450W. With the exception of the latter, all the conductors are believed to arise from sulphide mimeralization. Zone 4 is one of the strongest to be found on the claims, and the magnetics suggest its segment between 60N and 72N to contain the most magnetic material. The conductor at 57N-7W is thought to have been shifted 100 feet too far east due to response from neighbouring zones.
- ZONE 7 is corroborated between lines 21N and 54N, and believed to reflect narrow zones of disseminated sulphides over this section. The suggested segments on lines 60N, 66N and 69N have no anomalies and could reflect shearing.
- ZONES 8 AND 9 are poorly corroborated by magnetics on 30S and 21S respectively. They appear to arise from weak conductors, possibly shearing.

Several short unmarked conductors to their south at 395-4W, and 42S-5W, 950W and 1250W are corroborated by magnetics to suggest narrow sulphides. Several outcrop in the area with visible sulphides support this view.

ZONSS 10 AND 11 lie along a series of short magnetic anomalies, but they appear to flank rather than coincide with each other. The suggestion is therefore that the conductors reflect scattered mineralization and/or shearing.

ZONES 12, 13, 14 AND 15 all coincide or lie adjacent to parallel series of co-linear lenticular anomalies. They probably arise therefore from a combination of pods of sulphides and shearing effects. Those conductors which are best corroborated by magnetic evidence are as follows:-

Zone 12; 458-3E; between lines 9S and 3S; 3N-4E, 6N-1E, 350E; 9N-425E; 12N-250E to 15N-4E; between lines 21N and 42N; 54N and 57N; 69N-10E. The segment between lines 21N and 33N gave some of the strongest electrical response on the property.

Zone 13:- between lines 54S and 423.

Zone 15;- on lines 24N. 27N and 36N.

# **ECONOCIDATIONS**

In several sections where there is outcrop on the claims, some posting or limited trenching could verify the cause of some of the senductors. The magnetic data has shown which conductors could have the greatest amount of magnetic sulphides associated with them, and therefore are likely to be most important. These somes should receive first attention.

Any one of the conductors however could mark an important zone and to attempt a detailed investigation of each would require a long and écetly program. It is recommended therefore, that along with a limited amount of prospecting, each of the conductors have soil samples taken which may be tested for traces of base metals. In this way direct evidence may be gained on which conductors arise from base metal mineralization. With this information plus the magnetic data a selection of targets may be made for drilling.

most, with many areas being more thinly covered. Indeed in several instances the overburden had an almost residual character. Soil samples where they are taken should be at least 3 feet in depth and from 25 to 50 feet apart. A short traverse of 300 feet over each conductor would be required.





# THE PARTY

# Development

During the months of August and September, 1956, a magmetameter survey was performed for Continental Copper Mines Limited, ever 27 claims in Talbott and Scholfield Tourships, Outerie.

These claims had been staked to cover several sulphide discoveries made by prospecting. The shorings consisted of disseminated pyrite and pyrrhotite, and although they only contained traces of base astals, their frequency of occurrence in the area encouraged an exploration program for enrichments along their course. The extensive maskeg covering the claims, however, pre-almded prespecting as a method to determine geology or locate additional sulphide bodies.

An electromagnetic survey performed on the claims delineated fifteen parallel somes of discontinuous condustors. Several condustors were shown by outerop to reflect sulphides, but the majority had no surface expression to explain their come. It was necessary, therefore, to have some corroborative evidence to select the more important once for detailed investigation. Since those sulphides which had been observed were magnetic, it seemed likely that any others in the area would be magnetic also.

The magnetometer survey discussed in this report was performed to determine the distribution of the more magnetic gones of bed-rock on the property. With this data it was hoped to gain a more informative picture of the underlying geology, and to assess the relative importance of the commeters. The presence of a magnetic anomaly over a conductor would support its claim to reflect sulphide mineralisation, and select it for further investigation. For a variety of reasons, however, its presence or absence could neither varify nor eliminate the possibility of ore.

A discussion of the results of the electromagnetic survey perferred over these claims is contained in a separate report.

A large number of pod-like anomalies varying to 700 feet in length and beyond plus or mimus 12,000 gauss in strength, were located. Nost of these occur within series of weak lenticular anomalous somes varying to 3000 feet in length, and lying co-linearly along parallel north-easterly horisons. The magnetic zones are thought to reflect pyrrhotite and pyrite developed as stringers and disseminations along bedding planes in the underlying sediments. The strong pod-like anomalies reflect concentrations of these minerals, the greatest being where the anomaly is also conductive. The small size of most of the anomalies, however, suggests that the majority of the magnetic sulphide sones reflected will be 5 to 20 foot widths of narrow stringers. In a few cases the targets could be twice this size.

Since any anomaly could reflect a base-metal sulphide sons, it has been recommended that all be examined geochemically beginning with the largest and strongest. In regions of outcropsome prospecting may also be done to verify the cause of the anomalies.

This geochemical information plus the magnetic and electrical data -ill allow a selection of targets to be drilled.

# LOCATION, ACCESSIBILITY AND EXTENT OF PROPERTY

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The best means of access is via a 69 mile wagon road which extends east from the flagstep of Hansen station. This road is almost completely muskeg and therefore impassable for vehicles other than tractors. Fausen is 32 miles south of Hearst, to which it is joined by the Algera Central and Hodern Bay Hailways. Train service between the two is daily. The wagon road from hansen continues through the claims to a small lake near the corner of lots 25 and 26, Con. 8 and 9 in Scholfield Township. This lake may be landed upon by light aircraft, but its small size makes departures risky.

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Lots 33 and 34 together with the Hg and HE 1/4 of Let 32, and the HW 1/4 of Let 31, in Con. 8; the Sg of Let 33, the Hg and HW 1/4 of Let 32, the Wg and HE 1/4 of Let 31 in Con. 9. Claim 5.5.H. 15369 representing the Sw 1/4 of Let 32, Con. 9 is not controlled by the Company but was included in the survey because it lies within the property outline and its information would therefore be required for a continuous geoghysical picture of the claim group. An outline of the area commined is shown on the Key Map which accompanies this Report.

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Overburden on the claims is thought to be relatively shallow, perhaps at most 50 feet, and in many places less than 10 feet. In several instances it was judged to be residual, with a reddish discolaration due to exidised sulphides.

# results of the survice

All the results of the survey are platted on the accompanying May master 1956-17, drawn to the scale 1 inch equals 300 feet.

Beside each reading station is shown the gamma value of the vertical component of the earth's magnetic field, in relation to that at Base Station A located at 24N-15N. The magnetic value of this station was arbitrarily chosen as 922 gammas.

Contours of equal vertical segmentic intensity have been drawn at intervals of 500 games.

Zones of magnetic abounties have been marked by "A", "B", "C", etc., and are later discussed.

Technical details regarding the procedure fellowed in perferming the survey will be found in the Appendix to this Report.

### DISCUSSION OF RESULTS

Hagnetic anomalies arise from magnetite, ilmenite, or pyrhetite, or some combination of these minerals. The sign of an anomaly—whether it is positive or negative, is usually determined by the attitude and direction of polarisation of the body. In morthern latitudes, positive anomalies occur over the upper edge of a body, while megative ones mark the footwall side or lower pole depending on whether the body is deep-scated or shallow. Ilmenite, very acid recks, reverse polarisation or otherwise magnetic rocks in a more magnetic best can also give rise to negative anomalies.

The mangetic method is depth limited, the expected anomaly warying with depth in terms of target width. A given some twice the depth gives only one quarter the response so that isoper narrow targets can be missed, while a closer approach to surface of a homogeneous bed-rock can create a "topography" anomaly.

The survey located a large number of pod-like anomalies varying up to 700 feet in length with regretic relief to beyond plus or minus 12,000 games. These pods are usually within lenticular anomalous sones of a few hundred garwas relief which vary to 500 feet in width and 3000 feet in length. The sones trend in a N-55°E (Ast.), direction and series of them appear to his co-linearly along parallel horizons throughthe claims. Right such herizons have been selected due to the

strongth and frequency of the anomalies along them. Moriors of a given horizon bear the same letter and are distinguished by subscripts. The pattern is quite complicated, however, by discontinuity along the horizons, plus makers of shorter ansmalles continuity along the horizons, plus makers of shorter ansmalles continuity along the horizons, plus makers of shorter ansmalles continuity acres it is no clear what the exact relationships are.

The somes are believed to railest essentially pyrrhotite and magnetic pyrite which have developed as narrow stringers and disseminations along bedding planes in the underlying sediments. The stronger ancemiles mark consentrations of these minerals, but in no case dees the amount of magnetic material present appear to be very great. The suggestion is that the targets esseing the strong anomalies are with few exceptions very narrow, say 5 to 20 feet widths, of narrow stringers which are quite shallow. The wester portions of magnetic sense probably reflect a very few stringers or disseminations of magnetic sulphides.

The general increase in magnetic level over the south emiral portion of the claims is thought to reflect a closer approach to surface of the hed-rocks plus a slight increase of magnetic sulphides. The geologic dip of "constions is indicated to vary from near vertical to a few degrees to the south-mest. It is corroborated by the many magnetic dipales inving their negative portions (does-dip part) to the south-cast.

The electromagnetic results have shown a master of parallel series of combetors, sees of which occanide with the anomalies. A conductor is essentially a reflection of continuity in the underlying conductive material and could equally well mark a massive body or a parallel series of this stringers. A relatively narrow development of sulphides may down to 1/4 inche having good length and depth extent, could give very strong electrical response. The most important ansmalless features therefore will be coincident conductors and strong magnetic anomalies.

Annualy A, together with similar smaller ones elsewhere about the property, which are merely element of areas of slightly increased response, are thought to reflect elsew approaches to surface plus alight disperductions of magnetic material in the underlying bed-reck. A short conductor through A could reflect a stringer of sulphides or a shorting.

Marinon B is shown to include three mashers which are generally on strike, however, it is devotful if all are related to the same geologic horizon. It with no electrical corresponding, may reflect a ped of disseminated sulphides; By appears to arise from a dylor-like body lying along line 87% and resuling into rocks with increased magnetic sulphides plan a closer appraisab to surphide at its upper end. A sulphide

stringer or shearing could account for the conductor through B2 and could be verified in nearby outcrop. B3 occurs on outcrop and with its flanking conductor could also reflect a condition of near surface bedrock with stringers of sulphides.

The C horizon which has been shown to include zone Cl some 3000 feet long, plus six smaller anomalies on strike for a mile, appears to be one of the most important ones on the property. The relationship of C6 to this horizon is in doubt, for it is also close to the strike of the B zone. The magnetics suggest a discontinuity along 87N either in the form of a dike or a mineralized fault, and C6 has been taken to be a member folded to the north in its vicinity.

C1 and C2 could reflect a series of narrow stringers folded on line 39N, or two parallel zones beginning and ending respectively on this line. They do not appear to reflect large amounts of magnetic material, the most continuous amounts of which are suggested under conductors at 21N-16W; 30N-14W; 16W; 36N-15W; 39N-12W; 14W.

C3, C4, C5, C6 and C7 are among the strongest anomalies located by the survey, and the latter two could reflect targets to 50 feet in width. Conductors exist through C3, C4, the negative portion of C6, and C7, With the geologic disturbances suggested near line 87N, the anomalies in its vicinity would appear to be the ones which could be most important.

A number of strong negative anomalies occur along the C horison and some are conductive as at 30N-14W; 45N-11W; 51N-950W; 78N-7W; 81N-850W. These negatives could reflect reverse polarized bodies or be the lower poles of shallow masses whose near surface portion lies under adjoining positives. A conductor through them could result, therefore, from a conductive mass dipping vertically or slightly north-west or a non-conductive mass dipping south-east with a conductive stringer or shear flanking its lower pole.

Horizon D is also felt to be one of the more important ones on the property.  $D_1$  has a very weak conductor believed to reflect a more continuous sulphide stringer in a zone of weak mineralization.  $D_2$  and  $D_3$  are also believed to reflect a weak series of sulphide stringers over lengths of 2500 and 1400 feet respectively, and there is the suggestion of a northerly fault displacing them and continuing on between  $C_1$  and  $C_2$ .  $D_2$  is conductive for its whole length and  $D_3$  only on lines 42N and 45N. The anomaly in  $D_2$  appears to reflect the widest mineralization — say 60 feet, of any strong anomaly located.

D<sub>L</sub> is non-conductive and thought to reflect narrow weak mineralization.

The E horizon is shown to consist of five small anomalies scattered along a  $2\frac{1}{2}$  mile course. Each are believed to reflect local

consentrations of asympths sulphidous which, except for Eq. are of small amounts. Short weak conjuctors through Eq and at 213-725% in Eq. are holicoed to reflect narrow sulphido stringers or shearings. A small anomaly north of Eq and joined to it appears to arise from similar conditions.

Horison F with three short week anomalous zones is also believed to reflect locally small amounts of magnetic sulphides. A conductor through F, is thought to reflect narrow stringers in evidence in nearby outerop. A short conductor is present at 450-25.

The G herison shown to contain seven anomalous zones may actually include several sub-parallel horisons. The anomalies are all believed to reflect local pads or consentrations of stringers of sulphides. Conductors occur through G1, 93-250E; 63-250E; 33-3E; 3N-4E; 6N-1E; 12N-275E; 15N-350E; G5 and G7. It is thought that a fault may be displacing G4 from G5 and that G7 reflects the strongest sulphide consentration.

Both the H and K horisons are made up of short lenticular anomalous acres believed to reflect pods of magnetic sulphides. In no case does the securit of sulphide present appear to be very large. H1 . H2 and K2 have conductors suggesting that the mineralization they reflect is of a more continuous nature.

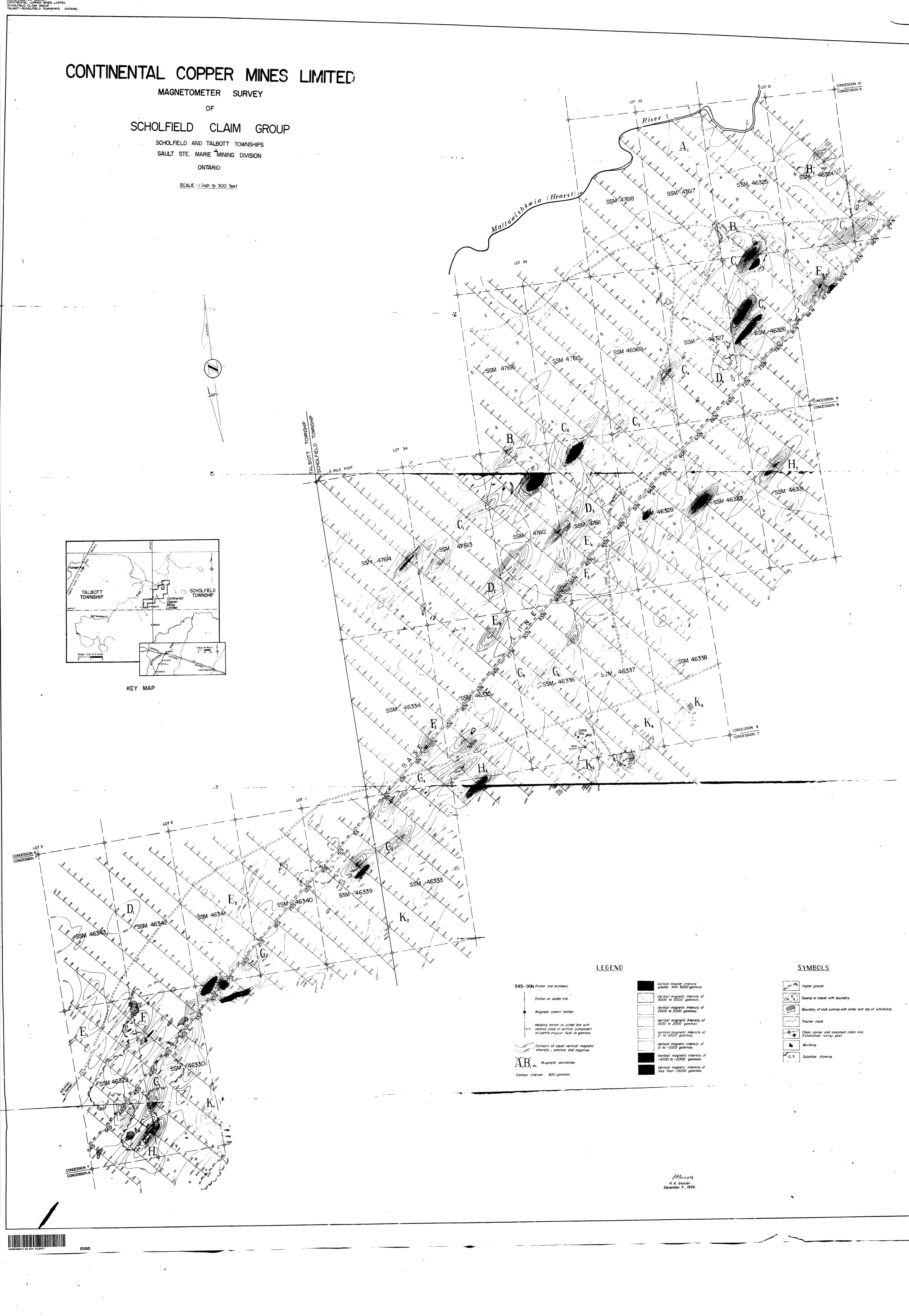
# RECOMMENDATIONS

Any of the anceslies could mark a base-estal sulphide deposit, and although their sizes suggest small amounts of magnetic material close to surface, they do not remove the possibility of ore. Additional non-emercial ore-grade exterial could be present near surface or at a desper horison.

It is recommended therefore, that each anough be examined acchanically for direct evidence of base-netals, and that this ferration plus the electrical and segmetic data be used as a guide foldrilling.

The geochemical recommissance should begin with the best anomies such as  $G_1$ ,  $G_2$ ,  $G_3$ ,  $G_4$ ,  $G_5$ ,  $G_7$ 

mapping old be done to provide a better plature of the underlying rook to and the occase of nearly anomalies.



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