

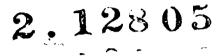
SGM R. Somerville Geological & Mining Engineering Ltd.

Ste. 103 - 255 West 1st Street • North Vancouver, B.C., Canada V7M 3G8 • Telephone (604) 986-5766



E0359 2.12805 SHAW

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A REPORT

on

THREE GEOPHYSICAL SURVEYS

(Magnetic Total Field, Magnetic Gradient,

and an HEM Survey)

on

THE SOUTHEAST GRID

on

THE SHAW #1 PROPERTY

SHAW TOWNSHIP

ONTARIO

by

R. Somerville, B.Sc.(hon), P. Eng.

dated October 1, 1989.



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APPENDIX I

Report of Work

APPENDIX II

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Certificate

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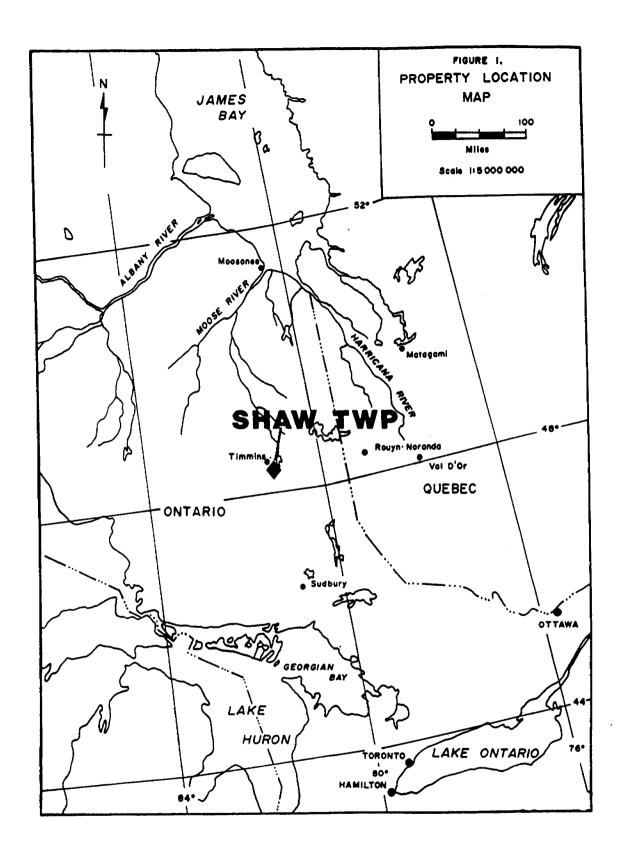
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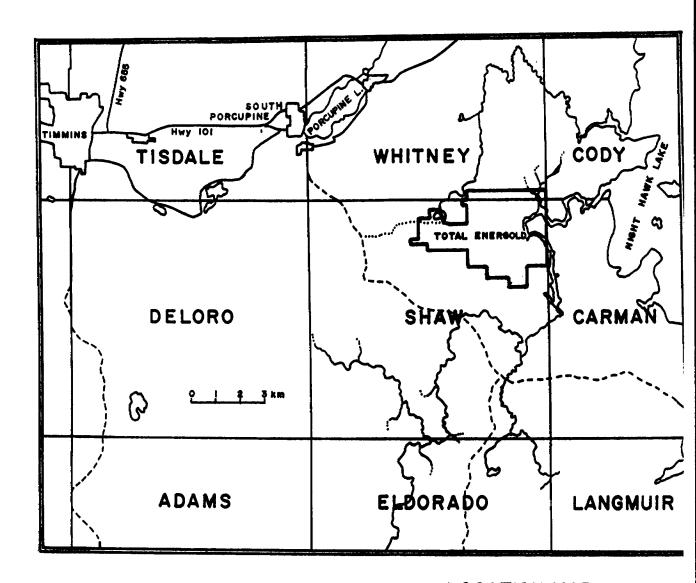
INTRODUCTION

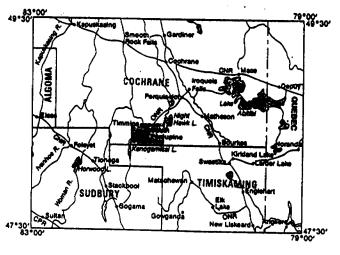
This is a report on the results of three geophysical surveys The surveys were conducted by over 18 claims. conducted personnel from Timmins Geophysics Ltd., P.O. Box 1783,

Bruce Avenue, South Porcupine, Ontario, PON 1H0 for a 111 subsidiary company of Total Energold Corporation (AJM Metals Ltd.) who at the time of the survey were the registered holders Their address is 1500 - 700 West Pender Street, of the claims. Vancouver, British Columbia, V6C 1G8. The current registered holders of the claims are R.D. Somerville, 1052 Esquimalt Avenue, West Vancouver, B.C. and D.E. Somerville, R.R. 3, Site 1, Comp. 19, North Bay, Ontario, P1B 8G4.

The three surveys were a Magnetic Total Field survey, a Magnetic Gradient survey, and a Horizontal Loop Electromagnetic The work was supervised by personnel from R. Somerville survey. Geological and Mining Engineering Ltd., whose address is 103 - 255 West 1st Street, North Vancouver, B.C., V7M 3G8.







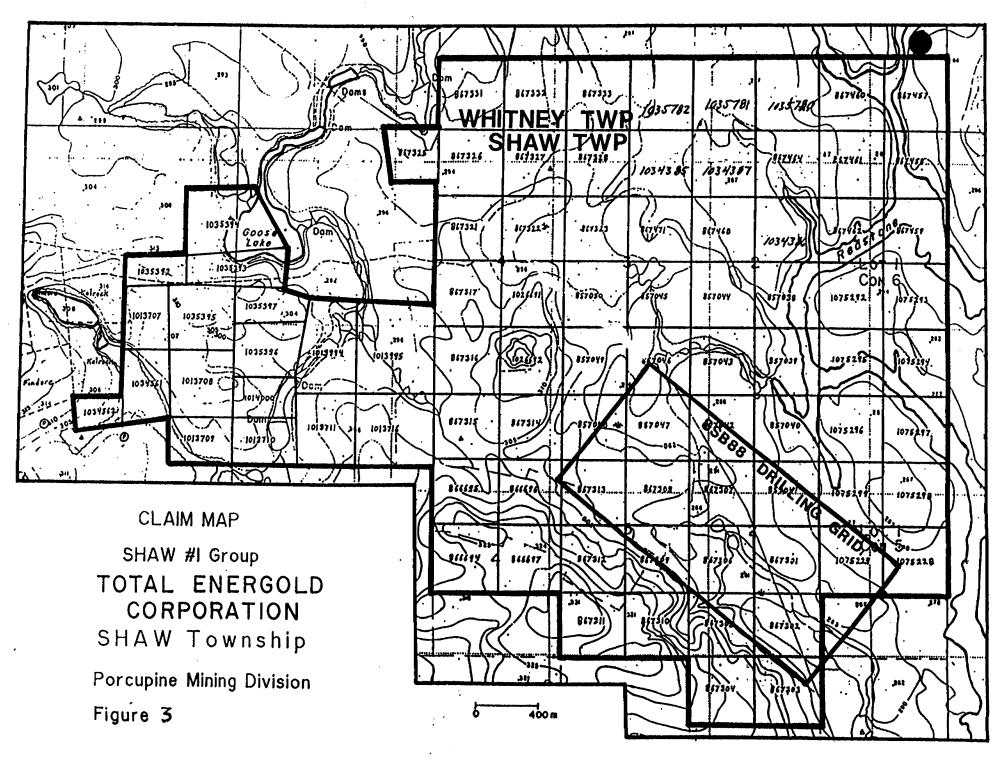
Aeromagnetic reference 293G N.T.S. reference 42A/6

LOCATION MAP

SHAW #I Group TOTAL ENERGOLD CORPORATION SHAW Township

Porcupine Mining Division

Ontario



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PROPERTY, LOCATION AND ACCESS

Total Energold Corporation's Shaw #1 group consists of 88 contiguous unpatented mining claims. The property is located in Shaw Township some 5 km south of South Porcupine. These are recorded in the Porcupine Mining Division in the name of AJM Metals Ltd. The geophysical survey actually covers the following 18 claims:

The claims are numbered:

P-857041 and P-857042 P-857046 to P-857049 P-867301 and P867302 P-867305 to P867309 P-867313 to P867315 P-1026692 P-1075229

They form a block covering portions of Lots 2 to 5, Concessions 5 and 6, Shaw Township. All these claims are in a contiguous block as can be seen on Figure 3.

Access to the property is by two rough roads, one heading east from the Langmuir Mine Road, 5km southeast of South Porcupine, and the other heading north from the same road 11 km southeast of South Porcupine. See Figures 1 and 2.

PHYSIOGRAPHY

The Shaw property is generally flat with a total relief of less than 50 metres. A high area of outcrop in the centre of the property, called Mt. Logano (elevation 325 metres), forms an east-west divide. From here the land gently slopes to the east, reaching an elevation of 281 metres at the Redstone River, and northwest to Goose Lake at an elevation of 290 metres. Drainage is into Goose Lake and the Redstone River.

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Vegetation on the property consists of 75 percent forest cover, mainly spruce and poplar with some pine, birch, and fir. Of this 15 percent has been clear cut. The remaining 25 percent is covered by bog, alder swamp, and grass.

Approximately 10 percent of the Shaw #1 property is outcrop, nearly all of it in the western third. Overburden is thickest in the east, reaching a depth of 109 metres.

PREVIOUS WORK

Previous work done on the property is summarized below:

- 1910 A.G. Burrows studied and mapped the Porcupine Gold Camp, including Shaw Township.
- 1915 A.G. Burrows 3rd ed. of this report, including Shaw Township, map 24d.
- 1924 A.G. Burrows 4th ed. of his report, including detailed field studies of Whitney Township and the north half of Shaw Township, map 33a.
- 1938 M.E. Hurst mapped Shaw and Whitney Townships (1935-1937) and published a geological map (Map 47a)

Erie Canadian also known as Ester Porcupine Gold Mines Ltd., mapped one claim.

- 1945 Blackhawk Porcupine Mines Limited drilled two diamond drill holes totalling 1,047' on claim #857040 near the Redstone River.
 - Conwest Exploration Company Limited drilled three near the Whitney Shaw township line between 1945 and 1946.
 - Ella Jay Prospecting Syndicate drilled a 873' hole near the Whitney Shaw Township line on claim #867458. This company was later known as Lloyd Gold Mines Ltd.
- 1946 Kensull Gold Mines Limited conducted a ground magnetometer survey over 3 claims.
 - Belcher drilled two diamond drill holes totalling 1,207' on claim #867305 in Whitney Township.
- 1947 Amshaw Porcupine Mines Limited held 3 claims within the Shaw #1 group and between 1962 and 1963 conducted a ground magnetometer survey on the claims.
- 1966 Richards drilled 2 diamond drillholes totalling 1,107' on claim #867305.
- 1967 H.D. Carlson mapped and produced an open file report (5012) based on field work done in Shaw Township (1964 to 1965)

1969 - Dillon investigated the area from 1961 to 1969. In 1969 they drilled 9 diamond-drill holes, one on claim #1013994 and 8 on claim #1013716, for a total of 1,434'.

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- 1971 Hollinger Mines Limited explored 20 claims in the area by ground magnetometer.
 - Economic Mineral Investigations Limited carried out a geological survey of 5 claims and an electromagnetic survey on one of these.
- 1974 Pac Exploration mapped the geology and conducted a ground magnetometer survey over 16 claims, and resistivity and induced polarity surveys over 2 of these.
- 1980 Hollinger-Argus Mines Limited explored 16 claims by means of ground magnetometer and VLF.
 - Rosario Resources Ltd. conducted geological, ground magnetometer, and electromagnetic surveys on 30 claims. They also drilled a 598' diamond-drill hole on claim #1013995 to investigate a carbonate alteration zone.
- 1987 Chevron investigated the area in 1986 and 1987. A ground electromagnetic survey was carried out on 13 claims, overburden sampling on 10 claims, and trenching on claims #867315 and #866696.

For more detail see Appendix A, Table 1.

1988 - Total Energold Corporation filed a report on the geology of a portion of the claim block and a geochemical report on a two claim portion of the property.

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GENERAL GEOLOGY

The description of the geology is partially excerpted from a report on the property by R. Mielke dated December 31, 1988. The Timmins district is underlain by volcanic, sedimentary, and intrusive rocks of the Abitibi greenstone belt. For a summary of the geology of the Abitibi greenstone belt, the reader is referred to Goodwin and Ridler (1970, 1977), Pyke (1980), and Jensen and Langford (1983).

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The geology and stratigraphy of the Timmins district (Figure 3), has been recently described by Pyke (1982), and the following description is taken largely from his work.

Stratigraphy

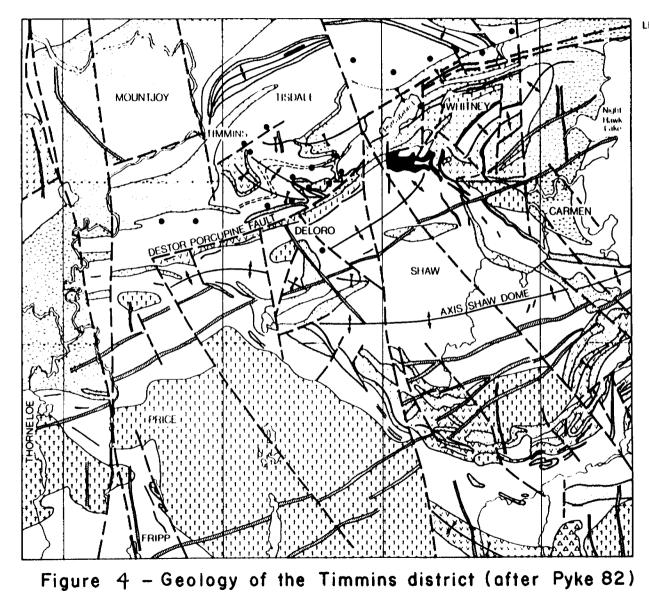
Pyke divided the Archean volcanic and sedimentary rocks of the district into three groups, the Deloro, Tisdale, and Porcupine Groups. The volcanic rocks are divided into the Deloro and Tisdale Groups, and the sedimentary rocks are assigned to the Porcupine Group (Figure 4).

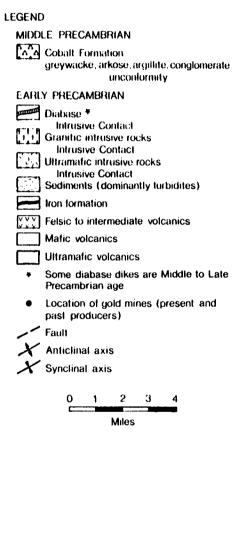
The two volcanic groups are cut by a major east-west fault, the Destor-Porcupine fault. South of this fault, the rocks of the Deloro Group (the older group) occupy the Shaw Dome, and north of the fault rocks of the Tisdale Group form a series of anticlines and synclines trending northeast-southwest and northwest-southeast. Major blocks of the Tisdale Group reappear south of the Destor-Porcupine fault around the flanks of the Shaw Dome, apparently unconformably overlying the older Deloro Group.

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The sedimentary rocks of the Porcupine Group occur in close proximity to the Destor-Porcupine fault and within folded sequences in the northwest part of the district. According to Pyke, these sedimentary rocks are time equivalent with the upper volcanic rocks of the Deloro Group and the entire sequence of the Tisdale Group.

The sequence of metavolcanic rocks that constitute the Deloro and Tisdale Groups is subdivided into six formations. Formations I to III fall within the Deloro Group, and Formations IV to VI the Tisdale Group.





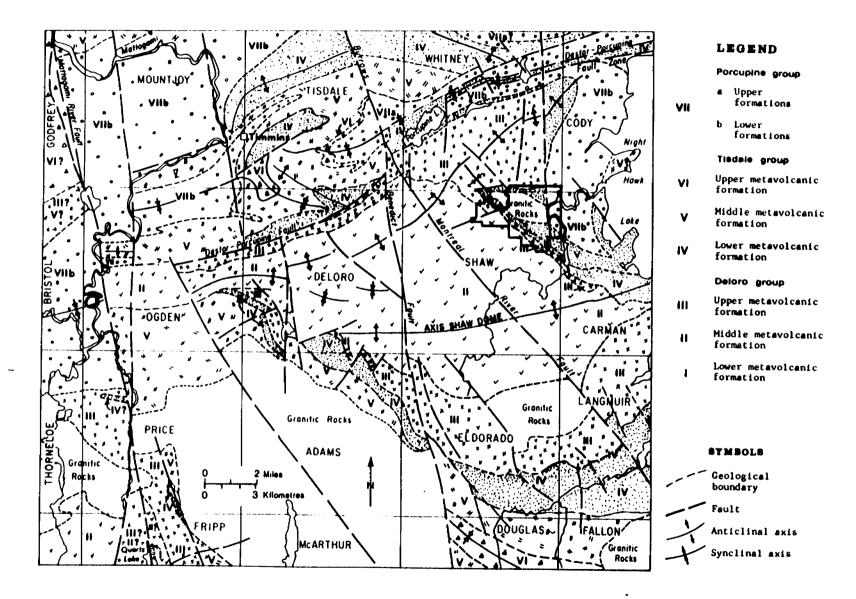


Figure 5 – Stratigraphic map of the Timmins district (after Pyke 82)

Intrusive Igneous Rocks

Large sill-like bodies of dunite and peridotite were emplaced into the upper formation of the Deloro Group in the vicinity of the Shaw Dome. Pyke (1982) suggests that these may have acted as feeders or reservoirs for the ultramafic rocks at the base of the Tisdale Group.

Numerous felsic stocks outcrop in the southern part of the district. These include a small felsic quartz porphyry stock which underlies much of Mt. Logano.

Many small quartz-feldspar porphyry intrusions of probable subvolcanic origin occur within the metavolcanic rocks of the Tisdale Township. Some of these intrusive bodies contain gold-bearing quartz veins.

The volcanic and sedimentary rocks of the area are traversed by a series of north and northeast-trending diabase dykes. At least three ages of diabase intrusive activity have been established (Pyke 1982).

North-trending dykes (approximately 2480 Ma) cut the granitic rocks associated with the Kenoran orogeny and are unconformably overlain by Proterozoic sedimentary rocks. North-northeast-trending diabase sills (2170 Ma), and east-northeast or northwest-trending diabase dykes (1230 Ma) intrude both the Archean and Proterozoic rocks.

Structural Geology

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Two structural domains, separated by the Porcupine-Destor fault, are recognized in the district (Pyke 1982). The Shaw Dome, underlain by rocks of the Deloro Group, occurs to the south of the fault. North of the fault the rocks of the Tisdale Group have been folded into a sequence of anticlines and synclines. Basal rocks of the Tisdale Group are also found on the flank of the Shaw Dome south of the Porcupine-Destor fault.

The axis of the Shaw Dome trends east-west across the southern part of Shaw Township. The origin of this domal structure is probably the result of the diapiric effect of an underlying granitic body. Middleton (1976) inferred the existence of such a body from a negative bouguer anomaly coincident with the Dome.

Metamorphism

The Archean rocks of the Timmins district have been subjected to greenschist facies metamorphism. A strong mineral foliation, defined by the preferred orientation of sericite and chlorite, is locally developed throughout the area. For the most part however, original textures are preserved in sedimentary and volcanic rocks.

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GEOLOGY OF THE PROPERTY

Summary

The Shaw #1 Property is situated between a northeast-trending anticlinal structure to the north, and an east-trending linear dome called the Shaw Dome to the south (Figure 4).

The Shaw Dome is underlain by mafic calc-alkalic volcanics of the Deloro Group, Formation II, and the northern anticline is predominantly iron formation bearing felsic calc-alkalic volcanics, Formation III (Pyke 1982). The upper part of the Shaw Dome volcanics also contain iron formations, some of which are exposed in the southern part of the property.

The central and eastern part of the 88 claim group is underlain by komatiitic and tholeiitic volcanic rocks of the Tisdale Group (Formation IV and V). These form a small southwest-plunging syncline which is intruded by quartz porphyry. This porphyry forms a large body in the centre of the property which is known as the Mt. Logano porphyry (Figure 6).

All of these rocks are cut by later intrusives. A large east-trending, differentiated, diabase dyke cuts across the centre of the property; and a large gabbro body exists in the extreme south. Several other smaller intrusives have also been noted. Among these are narrow north-trending diabase dykes, small gabbro plugs and dykes, and mafic intrusives.

Sedimentary rocks are thought to occur in the extreme eastern part of the 88 claim group (Pyke 1982, map 2455), but the extent of these is currently unknown.

Although the 18 claims covered by this report have not been mapped in detail, a general picture of the geology is known from compilation and wide-spaced traverses. This 18 claim group appears to be underlain in part by a stock of Mt. Logano quartz-feldspar porphyry (felsic intrusive) in the north, and by Cycle IV Tisdale ultramafics which lie south of the intrusive. The ultramafics overlie an iron formation/mafic volcanic complex which occupies the southernmost part of the grid. Diabase outcrops have also been observed on the property. An attempt was made to interpret the magnetic contour maps (Map B, Sheets 1 and 2) based on these sketchy observations.

LINECUTTING AND SURVEY METHODS

Linecutting

A cutline grid called the Southeast grid was established with 26 lines cut on an azimuth of 038 at 100 meter intervals. The lines were cut between a baseline 0 on the south to a 1000 meter north tieline. The baseline and tieline are at right angles to the cut lines and trend 128. Line 0 (at 300N) is tied to the old main grid (500S tieline - 2900E).

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This new grid has six lines cut to the northwest of line 0+00 (Lines 1+00W to 6+00W) and has nineteen lines cut to the southeast (lines 1+00E to 19+00E).

Magnetic Survey

During December 1988 and January 1989, the lines were cut and picketed. At this point Timmins Geophysics was contracted to complete the magnetic survey on this grid.

The readings were taken between January and March, 1989 at 25 meter intervals at all points except those few where flooded conditions upstream from beaver dams made it impossible.

Scintrex IGS-21MP-4 two run using The survey was magnetometers. One unit was used as a base station, and at the end of each day, the readings were automatically corrected for diurnal effect by connecting the two instruments. The the resultant corrected total field ground magnetic results were transferred from the instrument to a computer disk. The survey was conducted by Timmins Geophysics Ltd., P.O. Box 1783, South Porcupine, Ontario, and the work was directly supervised by D. Londry, B. Sc. (geophysicist).

The total field survey was conducted along the grid of cut lines from Line 600W to Line 1900E. The base station was located at L600W, 100N whose total field magnetic value was determined to be 58,235 gammas. In total, 1941 readings were taken on 996 stations.

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The magnetic gradient for each station was determined by the comparison of a second reading taken with the sensor extended about 1.5 m above the first. This survey was conducted over the same stations as the magnetic survey and during the same time period.

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The results of both the magnetic and magnetic gradient surveys were turned over to Sheldrake and Associates Ltd. of 1500 - 409 Granville St., Vancouver, B.C., V6C 1T2. The grid was digitized and the results were contoured and printed by a computer and an associated plotter and subsequently interpreted. The results are presented on Maps C (sheet 1 and 2) and D (sheet 1 and 2) in the pockets of this report. RSGM ·

Electromagnetic Survey

A Horizontal Loop electromagnetic survey was conducted along the same grid lines by means of a Model EM-17 electromagnetic receiver manufactured by Geonics Ltd. of Toronto, Canada. Measurements of the in-phase (dip) and quad-phase (quadrature) components of the secondary field were made as a percentage of the primary electromagnetic field. The readings were taken at 25 meter intervals at all points on the grid.

The survey was conducted during January and February 1989 by Timmins Geophysics. The results of the survey were plotted by hand and subsequently interpreted. The results are presented in Map E in a pocket of this report.

SURVEY RESULTS

The total field magnetic results are plotted on the 2 maps marked "A" and the results are contoured on the two "B" maps. Both are dominated by strong magnetic features which coincide with mapped outcrop areas of magnetite-rich iron formation striking approximately 140° . The boundary of the formation is interpreted and outlined on both maps.

Other features which are exposed in outcrop and interpretable in the contoured results are areas underlain by the Mt. Logano felsic intrusive meta-porphyry and the Cycle IV Tisdale volcanics ultramafic. Although outcrop is scarce in the map area,

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sufficient is exposed to be able to give a broad outline to these rock types.

Between Line 600W and L00 the iron formation appears to split or fork, with the open part to the west. In this area and partly coincident with the (magnetic pattern) iron formation is a very strong HEM anomaly (Anomaly A). HEM Anomaly E appears to be a continuation of the same conductor on the northeast side of the (magnetic anomaly) iron formation in the altered Tisdale ultramafic. Anomaly D also appears to be contained by this rock type Anomalies B, C, and F all appear to be contained within the Mt. Logano porphyry.

The letter designation (from A to J) for the HEM anomalies also reflects their interpreted ratings, with Anomaly A having the strongest response (the best conductor). HEM anomalies A,B, E, and in part F are coincident with magnetic gradient anomalies. A and E again appear to represent the same structure. In the area of the four ponds (Claim P-867301) there is an elongate, strongly high magnetic anomaly. It has approximately a 4,000 gamma relief. This coincides with a weak magnetic gradient anomaly and a weak HEM anomaly (Anomaly G).

CONCLUSIONS

The magnetic survey has been extremely useful in mapping the geological stratigraphy on the property. Some fault/vein((?) structures may also be interpreted from this data.

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The magnetic gradient survey appears to be indicating zones of "alteration" adjacent to interesting structural complications. It is possible that some of the magnetic gradient anomalies represent hydrothermal alteration.

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Finally, the HEM survey has indicated 5 "very good" to "fair" conductors within and adjacent to the iron formation, a pair of "fair" conductors lie within the Tisdale Ultramafics, and four "weak" anomalies are underlain by the Mt. Logano porphyry.

One high magnetometer anomaly, apparently underlain by the felsic porphyry, may represent a small basic magnetite-rich plug.

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APPENDIX I

REPORT OF WORK

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P.04 12:17PM OCT 5, 1989 988 7180 ROM: M.R. PORCUPINE MIN.DIV. TOI if number of mining claims traversact DOCUMENT No. forthern Development exceeds space on this form, attach a list. (Geophysical, Guological, and Mines 8906. Only days gradits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. Note: --Geochemical and Expenditu Mining Act Do not use shaded areas below. <u>[Sert</u> Township or Area LINGEUTTING カンロ TOWNSHAP SKAW ELECTROMAG AND MAGNETIS Tre Prospector's Licence No. AJ T4857 LTD VGCIG8 Su, Rende B.C West an con ver 700 of Survey (from & to) Total Miles of line Cut Urvay Company 03 83 & Mining BUS 6-0105 Dornervil Diy Mo. Yr. Mø. lame and Address of Author lof Geo radits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence) pucial Provisions Mining Cielm Number Mining Ciaira Number Days per Claim Expensi. Days Cr. Expend. Days Cr. Geophysical Pratix Profix For first survey: Electromognetic 20 6692 102 Enter 40 days, (This includes line cutting) - Magnetomolor 20 1.1.1 - Radiometric For each additional survey: 7314 using the same grid: Other 73 15. Enter 20 days (for each) LINGCHTTIN 6 Geological アクロ 1 Geochemical 7302 an Davi Days per Ciaim Geophysical Complete reversu side - Electromagnetic and enter total(s) here 730 7 Magnétometer 048 PMT: Radiometric 049 Other Geological 2047 Geochemical 08 Urborne Credits Days per Claim 7304 Ń Note: Special provisions Electromagnetic credits do not apply to Airboine Surveys. Magnistometer Radiometrio 1075 xpenditures (excludes power stripping) ype of Work Performed 857046 85704 orformed on Claim(s) niculation of Expanditure Days Credits Total Days Gred Total Expenditures \$ 9 15 NUG ----of mining 20 structions y this 18 Poter Days Crudits may be apportioned at the claim boles other L of nhoice. Linter number of days gredits per claim salected For Office Use Only in columns at right. Olal Davs Cr Mining Date Recorded 06 6.0 Hocorded HoyAm Kuent U Bianch Dirento ng 189 rtification Varifying Report of Wor Housely country that I have a personal and intimate knowledge of the facts set forth in the Report of Work ennexed hereto, having performal the work the witnessed range during and/or alter its completion and the annexed report is true. me a - fortel Artifress of Onteon Certifying 7 R 5. 1-11 - . . . VI 11

P.02 1989 12:16PM 5. **DCT** 988 7180 TOI FROM: M.R. PORCUPINE MIN.DIV. It number of mining claims traversion exceeds space on this form, attach a list. 8900.W Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns Northern Development (Geophysical, Geological, and Mines Geochemical and Expenditures) .iario Do not use shaded areas below. Mining Act Township or Area TOWNSHIP SHAW Type of Survey(s) MAGNETIC GRADIENIT papartoris Licence No. Claim Holder(s) R. Somerville A 500 6 4 ASM Metals LTD , 154 St North Vo V7M3G8 Address BIC 105-255 West Tutal Miles of line Cut Date of Survey (from \$10) 04 89 Di 0/ 89 87 04 89 Day Mo. Yr. Doy Mo. Yr. Survey Company RSGAR & TIMMINS Grophysics Name and Address of Author (of Geo-Technical report) 103-255 West 1st St. N. Vancouver UZM3GE 50MABRUILLE Mining Claims Traversed (List in numerical sequence) Gredits Requested per Each Claim in Columns at right Mining Claim Expende Mining Claim Expend. Days Ci. Days por Claim Numher Prefix Special Provisions Days Cr. Geophysical Profix * 2**.669**7 For first survey: Electromagnétic Enter 40 days, (This GRADIENT - Magnotometer 20 includes line cutting) - Radiometric For each additional survey: using the sume grid: Other Enter 20 days (for cach) 867 301 Geological 867302 Geochemical Days per 867306 Man Days Geophysical Claim 867307 Complete reverse side Electromagnetic and enter total(s) here 857048 Magnetometer 857049 Radiometric 867313 - Other 857047 Geological 867308 PIECORDED Geochemical Days per Claim 867303 Airborne Crodits 867305 AUG 2 5 1989 Note: Special provisions Electromagnotic credits do not apply 857041 Magnetometer to Airborne Surveys. 1075229 Radiometric Expenditures (excludes power stripping) 857046 Type of Work Performed 857042 Performed on Claim(s) aug **75** 1989 Calculation of Expenditure Days Credits Total Days Credits Total Expenditures 10:45 Total number of mining claims governd by this 15 \$ eport of work, * MAX REACHED - NOTALL nstructions For Office Use Only Total Days Credits may be apportioned at the elaim holder's choice. Enter number of days credits per claim selected 1 otal Days Cr. Data Recorded in columns at right. AUC . 25 199 thanch Director Oate 44923 Certification Verifying Report A Work I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annuxed hereto, having performed the work J7M368 or witnessed same during and/or after its completion and the annexed report is true.

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APPENDIX II

CERTIFICATE OF QUALIFICATIONS

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CERTIFICATE

I, Richard D. Somerville, residing at 1052 Esquimalt Avenue, West Vancouver, British Columbia, V7T 1J8 certify that:

1. I am a practicing Consulting Geologist with offices at 103 - 255 W 1st Street, North Vancouver, B.C., V7M 3G8.

2. I am President of R. Somerville Geological and Mining Engineering Ltd.

3. I am a Registered Professional Engineer of the Province of Ontario and British Columbia.

4. I am a Fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining & Metallurgy.

5. I am a graduate of Queen's University at Kingston, Ontario, having received a B. Sc. (hon) degree majoring in Geology, and a B.A. degree majoring in Physics and Mathematics.

6. This survey was conducted under my direction. I have visited the property, and I am satisfied that the survey was conducted in a proper and professional manner.

West Vancouver, British Columbia October 1, 1989

B. Somerville, P. Eng.







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Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines Mining Lands Section 880 Bay Street, 3rd Floor Toronto, Ontario M5S 128

Tel: (416) 965-4888

Your File: W8906-393 Our File: 2.12805

April 12, 1990

Mining Recorder Ministry of Northern Development & Mines 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

Re: Notices of Intent dated March 12, 1990 for a Magnetic Gradient Survey submitted on Mining Claims P 867301 et al in the Township of Shaw.

No assessment work credits, as listed with the above mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W. R. Cowan Provincial Manager, Mining Lands Mines & Minerals Division

US:zm Encl:

> cc: Mr. G. H. Ferguson Mining & Lands Commissioner Toronto, Ontario

> > AJM Metals Ltd Vancouver, B.C.

R. Sommerville Vancouver, B. C.

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Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines Mining Lands Section 3rd Floor, 880 Bay Street Toronto, Ontario M5S 128

Tel: (416) 965-4888

April 16, 1990

Your File: W8906-361 Our File: 2.12805

Mining Recorder Ministry of Northern Development & Mines 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

Re: Notice of Intent dated March 12, 1990 for Geophysical (Electromagnetic) Survey Submitted on Mining Claims P 1026692 et al in the Shaw Township.

The assessment work credits, as listed with the above-mentioned Notice of Intent have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W. R. Cowan Provincial Manager, Mining Lands Mines & Minerals Division

JS:zm Encl:

> cc: Mr. G. H. Ferguson Mining & Lands Commissioner Toronto, Ontario

> > AJM Metals Limited Vancouver, B.C.

R. Sommerville Vancouver, B.C. Resident Geologist Timmins, Ontario



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Ministry of Northern Development and Mines Technical Assessment Work Credits

2.12805 2.12805 March 12/1990 W8906-361

File

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:

1

Recorded Holder	
AJM_Metals_Limited.	
Shaw Township	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Assessment days credit par claim Geophysical Electromagnetic 16.7 Magnetometer days Radiometric days Induced polarization days Other days Section 77 (19) See "Mining Claims Assessed" column Geological days Geochemical days Man days Airborne Special provision Ground X Credits have been reduced because of partial coverage of claims. Credits have been reduced because of corrections to work dates and figures of applicant.	<pre>P 1026692 P 867301 - 02 P 867305 to 309 incl. P 867313 to 315 incl. P 857041 - 42 P.857046 to 049 incl. P 1075229</pre>
Special credits under section 77 (16) for the following m	ining of line
No credits have been allowed for the following mining d	aims
] insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical +80; Geologocal +40; Geochemical +40; Section 77(19) +60.

Ministry of Technical Assess Nonthern Development Work Credits	ment		Mining Bacorder's Baport o Work No. W8906-361
no Mines Work Credits	11		
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AJM Metals Limited			
ownship or Area			
Shaw Township		, uing Claims Assessed	
Type of survey and number of Assessment days credit per claim	f.		
Geophysical		•	
Electromagnetic days		cl.	
Magnetometer 35.6 days	P 867301-02 P 867305 to 30 ¹⁰		
	P 867313-15		
Radiometric days		ncl.	
Induced polarization days	P·857041-42 P 857046 to 04"	_	
davs	P 1075229	•	
Section 77 (19) See "Mining Claims Assessed" column			
Geologicaldays			
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Geochemical days	,		
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Special provision 🛛 Ground 🕅			
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Credits have been reduced because of partial coverage of claims.			
Credits have been reduced because of corrections			
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No credits have been allowed for the following mining d	sims		
not sufficiently covered by the survey] insufficient technical data (**		
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File 2.12805 Work No. W8906-393 March_12/1990

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Recorded Holder				
AJM Metals Ltd/ R. Somerville_				
Shaw Township				
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed			
Geophysical				
Electromagnetic days				
Magnetometer days				
Radiometric days				
Induced polarization days				
Other days	•			
Section 77 (19) See "Mining Claims Assessed" column				
Geologicaldays				
Geochemical days				
Man days 🗌 🛛 Airborne 🗌				
Special provision Ground C				
Credits have been reduced because of partial coverage of claims.				
Credits have been reduced because of corrections to work dates and figures of applicant.				
Special credits under section 77 (16) for the following n	nining claims			
No credits have been allowed for the following mining claims I not sufficiently covered by the survey I insufficient technical data filed				
P 867301 - 302 P 867305 to 309 incl. No credits given for Magnetic Gradient				
P 857046 to 049 incl. When combined with Magnetometer Survey				
P 867313				
P 857041 - 042				
P 1075229				
	n order that the total number of approved assessment days recorded on each claim does not			

exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Sept. 28 AUG 11, 1989 9:14AM P.27 FROM: M.R. PORCUPINE MIN. DIV. TO: 416 922 4108 Note: Only days receips calculated in the "Expenditures" section may be entered in the "Expend, Days Cr." columns. Brownes Linger UT Tinte - Do not use shaded areas balow. YOU OF SHEVAYINT 15 Township or Arou TONOISH 1+3 SHECTROMAG NETIC AND MAGNETU SKAW Cialin Hallerts) Prospector & Licence Ho AJM T4857-LT13. METALS 46016B Line out JUITE - 700 West Pender Vanconven 13. C 500 Date of Survey Bront & col Wiv Company ITOLAL MILLER OF BINE COL 03 83 Gralogical & Mining # Somerville 15 Y Mo. J YI. Name and Address of Author (of Geo-Technical rapp Mining Claims Traversed (List in numerical sequence) Credits Requested per Each Claim in Columns at right Trothe 1 Spucial Provision: Mining Claim Days per Cialm Lapont Devs Cr Expend. Deys Cr. Gaophysical Pretix Number For first survey: - Electromagnetic 20 1026632 Enter 40 days. (This includes line outring) - Megnetometer RA or hi For each additional survey: - fladiometric 7314 using the same grid: LINECHTYING Enter 20 days (for each) 1200 Geological (v -)) Geochemical デろゆこ Mars Days Deve per Cipirn Geophysical Complete roverse sido · Electromegnetic and email totally here 劉 Megnétomater 5 . 18 5 ------ Rédiometric · Other - 9-1989 AUG Gaplopical • Geochami 7308 Alruurne Gregits Days per Claim 209 Note: Special provisions Electromagnetic credits do not suply to Airborne Surveys. Magnetometer Radionvitric 10 2 522 Expenditures (excludes power stripping) RECEIVED -8.5.3 Typa of Work Parforne AUG 1 1 1989 (Fertormen on Cinimis) Hereit GEIV MINING LANDS SECTION Calculation of Expenditure Dave Crodit Topal P an. . . Total Expenditures \$ मु 1939 ٩UG 15 4. **P**:: to strange at coping chine covered by the 18 Instructions MARKET OF WERE Forst Days Credit: may be appeal good at the claim has choice. Enter number of deve For Office Use Only creation in columns of claim Total Days Cr. Data Recorded fiecorded AUG.9 89 Dalis Lippiover bi Arcordon Recorded He The state Barrisein Ang 4 189 1080 Stra ortification Varilying Report of Work stored, could then i have a respond and intimute knowledge of the facts set forth in the Report of Work sunsker bound. in witnessed tame during and/or after its completion and the annexed report is frue. Senar Contai Admess of Surson Certifying 1052 Esquim Ave. Somerville West Voncouver B.C. V7T158 Date Cartified Continent A-ug 185 4 they. 362 (05/12)

DOCUMENT No Intructions: -Please type or prin Report of Work Ministry of 8906-393 If number of mining claum Northern Development exceeds space on this form, attach a 5-1 (Geophysical, Geological, and Mines Only days credits calculated in the "Expenditions" section may be entered in the "Expend. Days Cr." column. Note: --Geochemical and Expenditures) Mining Act Do not use shaded areas below 2805 SHAW TOWNSHIP Lownship or Area Ty ... of Survey(s) MAGNETIC GRADIEL 74857 A 500 6 4 Claim Holder(s) AJM Metals LTD Address 54 North Vancouver B.C V7M3G8 Date of Survey (from B, te) 01 01 83 01 04 89 Day Mo. | Yr. | Day Mo. | Yr. 105-255 West Survey Timming Grophysics R56M Address of Author (of Geo-Tech 103-255 West 15t St. N. Vancouver UFM368 SONTERVILLE Mining Claims Traversed (List in numerical sequence) Credits Requested per Each Claim in Columns at right Mining Claim Mining Claun Special Provisions Days per Claim Expend. Days Cr. Experi Dation Geophysical Prefix Prefix Number For first survey: ï - Electromagnetic 4026692 × Enter 40 days, (This GRADIENT · Magnetometer includes line cutting) 20 ж Radiometric × For each additional survey: using the same grid: - Other 267315 X Enter 20 days (for each) Geological 867301 - 867302 Geochemical Man Days Days per Claim 867306 Geophysical Complete reverse side 867*307* Electromagnetic and enter total(s) here 857048 Magnetometer -857049 - Radiometric 867313 - Other 857047 Geological Geochemical 867308 DECORDED Airborne Credits Days per 867309 Claim Note: Special provisions Electromagnetic 867305 aug 2,5 1989 credits do not apply Magnetometer :857041 to Airborne Surveys. Radiometric 1075229 Expenditures (excludes power stripping) - 852046 Type of Work Performed 857042 Performed on Claim(s) AUG 25 1989 Calculation of Expenditure Days Credits Total Days Credits Total Expenditures 10:46 814 \$ 15 ÷ 48 * MAX REALIED - NOT ALLWED Instructions Total Days Credits may be apportioned at the claim holder's For Office Use Only choice. Enter number of days credits per claim selected Total Days Cr Date Herorited Recorded in columns at right. AU6 · 25 Date Aug 23 185 Certification Verifying Report #1 Work I hereby certify that I have a personal and intimate knowledge of the facts set for them the Report of Work annexed brocks, having performed th or witnessed same during and/or after its completion and the annexed report is true ZM 36 B Name and Postal Address of Person Certifying 103-255 West 15t Somerville R1362 (85/12)



Ministry of Northern Development and Mines Geophysical-Geological-Geochemical Technical Data Statement

 and Mines
 2.12805

 To be attached as an appendix to technical report FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

 Type of Survey(s)
 GEOPHYSICS

Township or Area <u>Shaw Township</u>	MINING CLAIMS TRAVERSED
Claim Holder(s) AJM Metals R & D Somervilly	List numerically
Survey CompanyTimmins Geophysics Ltd.	P (prefix) (number)
Author of ReportR. Somerville	(prefix) (number)
Address of AuthorO3 - 255 W. First St N. Voncouven	857041
Covering Dates of SurveyO1, 01, 83, E& 01, 04, 89	✓ 857042
(linecutting to office)	✓ 857046
Total Miles of Line Cut29.7 Km.	✓ 857048
SPECIAL PROVISIONS CREDITS REQUESTED DAYS per claim ENTER 40 days (includes line cutting) for first -Electromagnetic40 ENTER 40 days (includes -Magnetometer20 Ine cutting) for first -Radiometric20 survey. -Radiometric20 ENTER 20 days for each -Other20 additional survey using Geological same grid. Geochemical AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys) Magnetometer Electromagnetic Radiometric (enter days per claim)	 ✓ 857049 ✓ 867301 ✓ 867302 ✓ 867305 ✓ 867306 ✓ 867307 ✓ 867308
DATE: Oct 13/89 SIGNATURE: Autor of Report or Agent Res. Geol. Qualifications 2.11829 <u>Previous Surveys</u> File No. Type Date Claim Holder	

GEOPHYSICAL TECHNICAL DATA

9	GROUND SURVEYS – If more than one survey, specif	fy data for c ach type of survey	•
1	Number of Stations 996	Number of Readings	1941
	station interval 25 m	-	
	rofile scale	• •	
	Contour interval		an an ann an
			·····
	Instrument Scintrex IGS-2/MP-4		
g	A courseu Scola constant1 gammas		
MAGNETIC	Diurnal correction method Scintrex MP-3 B	ase Station Magnetometer	9,617 - , , , , , , , , , , , , , , , , , ,
IAG	Base Station check-in interval (hours) 10 sec	onds	
4	Base Station location and value 600 W 100 N		
y	Instrument Geonics EM-17		:
ELECTROMAGNETIC	Coil configuration Horizontal Loop	·····	
GN	Coil separation		
M	Coil separation Accuracy + 1%		
TRC	Method:	Shoot back II In lin	ne 🛛 Parallel line
EC	Frequency 1600 Hz.		
ធា	Parameters measured In-phase and Quadrature	components of secondary	field as percent of
	primary field.		
	Instrument		
	Scale constant		
ΣŢ	Corrections made		
GRAVIT			
GR	Base station value and location		
			ter en det de la de la detter de la dester de
	Elevation accuracy		· · · · · · · · · · · · · · · · · · ·
	Instrument		
	Method 🛛 Time Domain	🖂 Frequency Do	main
	Parameters – On time	Frequency	
×	– Off time	Range	
ТIУ	– Delay time		
STI	— Integration time		
RESISTIVITY	Power		
R	Electrode array		
	Electrode spacing		
	Type of electrode		

INDUCED POLARIZATION RESISTIVITY

••

SELF POTENTIAL	
Instrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden	
(type, dej	pth — include outcrop map)
OTHERS (SEISMIC, DRILL WELL LOGGING ET	ГС.)
Type of survey	
Instrument	
Accuracy	
•	
Additional information (for understanding results)	
-	
AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)	
(specify t	for each type of survey)
Accuracy(specify	for each type of survey)
Aircraft used	
Sensor altitude	
Aircraft altitude	Line Spacing
Miles flown over total area	Over claims only

GEOCHEMICAL SURVEY – PROCEDURE RECORD

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Numbers of claims from which samples take	Numbers	of	claims	from	which	samples	taken
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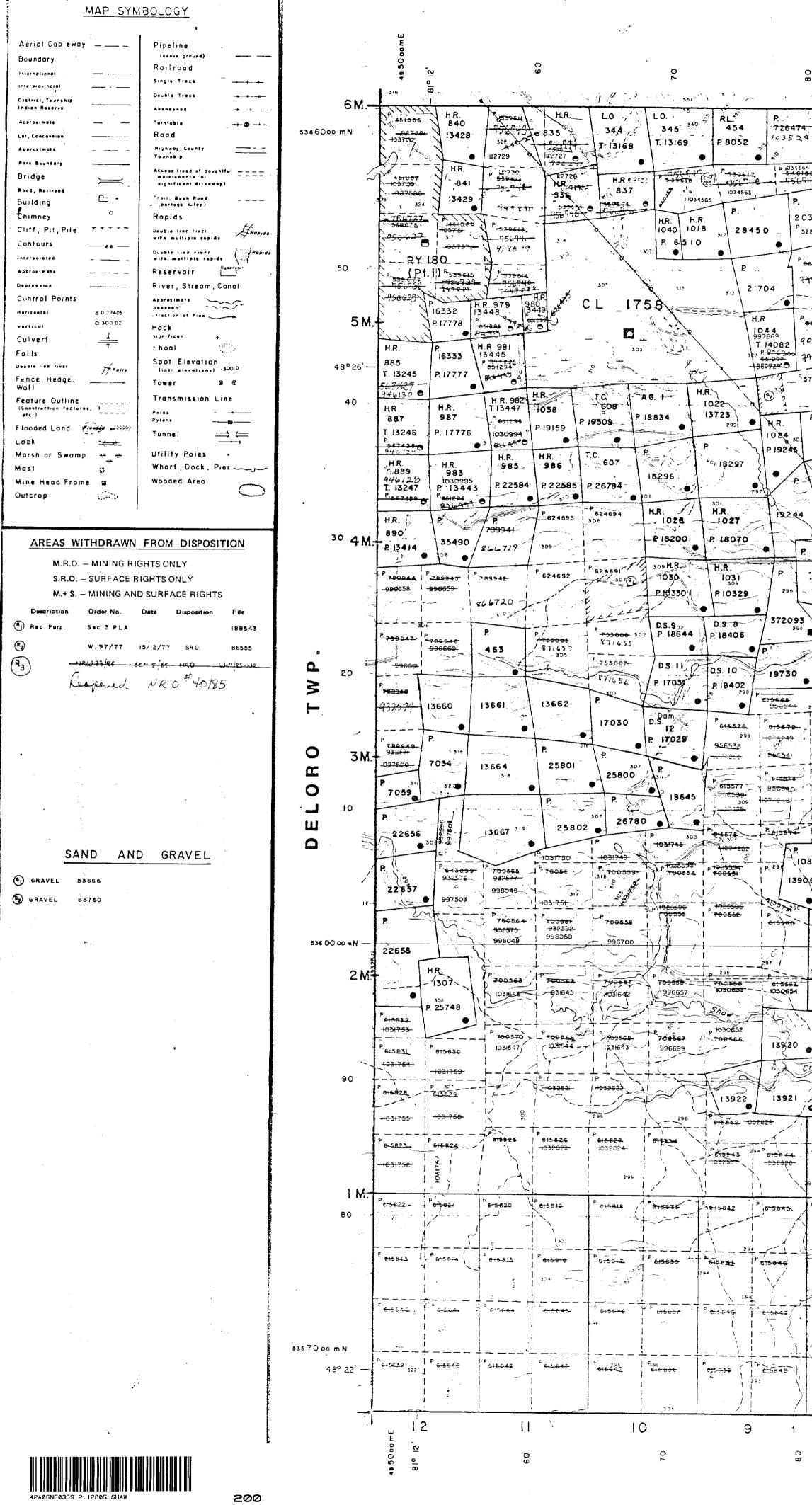
Total Number of Samples Type of Sample (Nature of Material) Average Sample Weight Method of Collection	Values expressed in: per cent I p. p. m. I I p. p. b. I								
Method of Collection	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)								
Soil Horizon Sampled	Others								
Horizon Development	Field Analysis (tests)								
Sample Depth	Extraction Method								
Terrain									
······	Reagents Used								
Drainage Development	Field Laboratory Analysis								
Estimated Range of Overburden Thickness									
	Extraction Method								
	Analytical Method								
	Reagents Used								
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)	Commercial Laboratory (tests) Name of Laboratory								
Mesh size of fraction used for analysis	Extraction Method								
	Reagents Used								
General	General								

FROM: M.R. PORCUP!	NE MIN. DIV.	1114 <u>5</u> 111145 1111	6 922 4/28 Manues V 8	406. 20 I	•	Contra de	1989 - 9 ys cremis cale	Histori na 12
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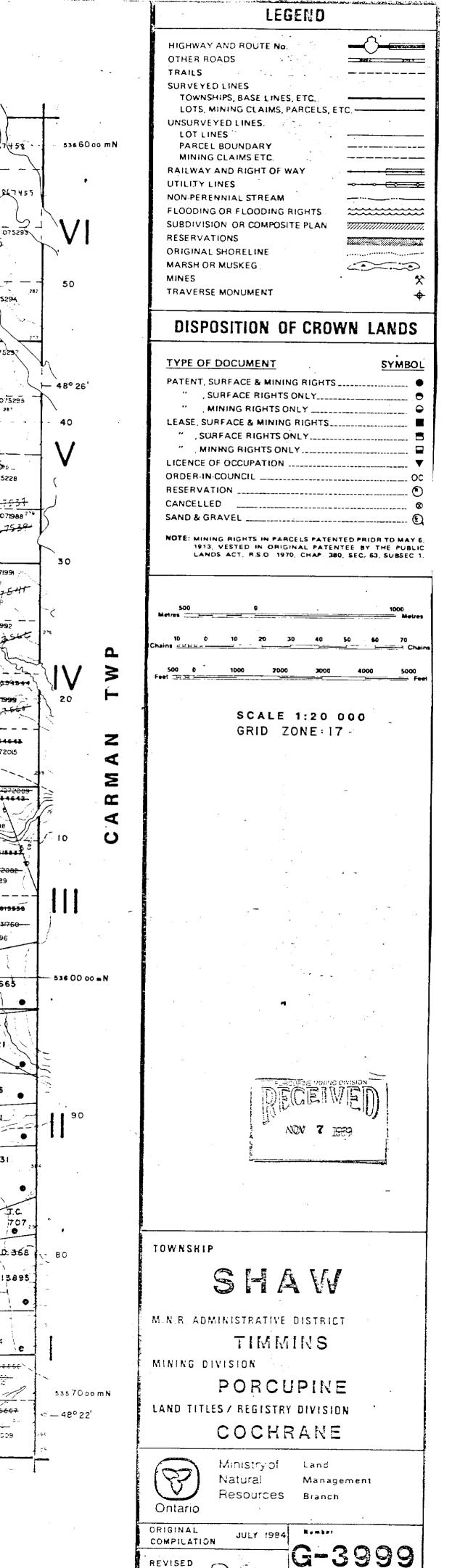


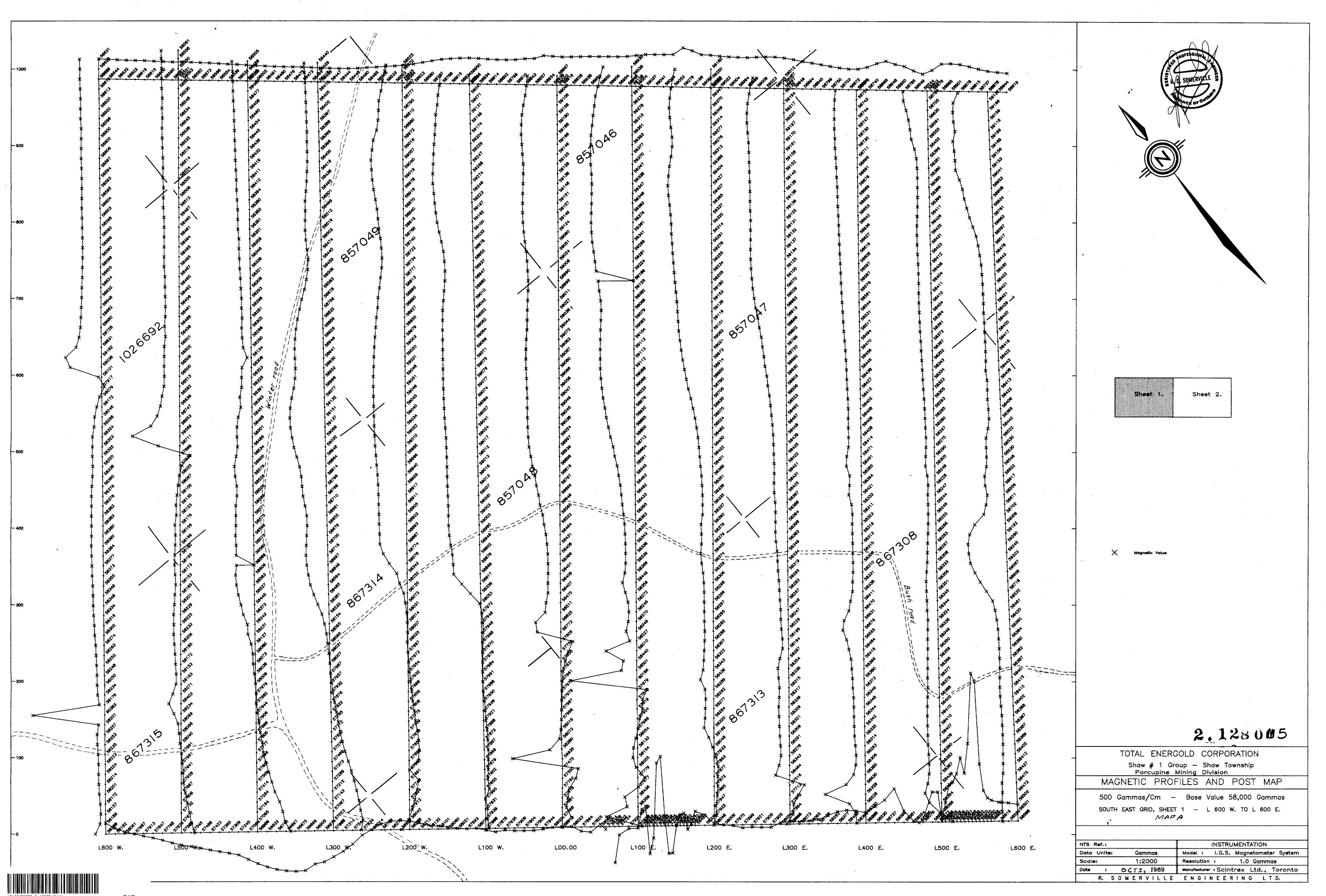
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