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

010

VOLUME I

A GEOPHYSICAL REPORT
(Magnetic Total Field, Gradient, and Two VLF-EM Surveys)
on
THE SHAW #1 PROPERTY
SHAW TOWNSHIP
ONTARIO

2.12705

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

dated August 1, 1989.

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doc/shgeophys

RSGM R. Somerville Geological & Mining Engineering Ltd.
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INTRODUCTION

This is a report on the results of a geophysical survey conducted over 25 claims. The survey was conducted by personnel from R. Somerville Geological and Mining Engineering Ltd., whose address is 103 - 255 West 1st Street, North Vancouver, B.C., V7M 3G8, and from Timmins Geophysics Ltd. for a subsidiary company of Total Energold Corporation (AJM Metals Ltd.) who are the registered holders of the claims. Their address is 1500 - 700 West Pender Street, Vancouver, British Columbia, V6C 1G8.

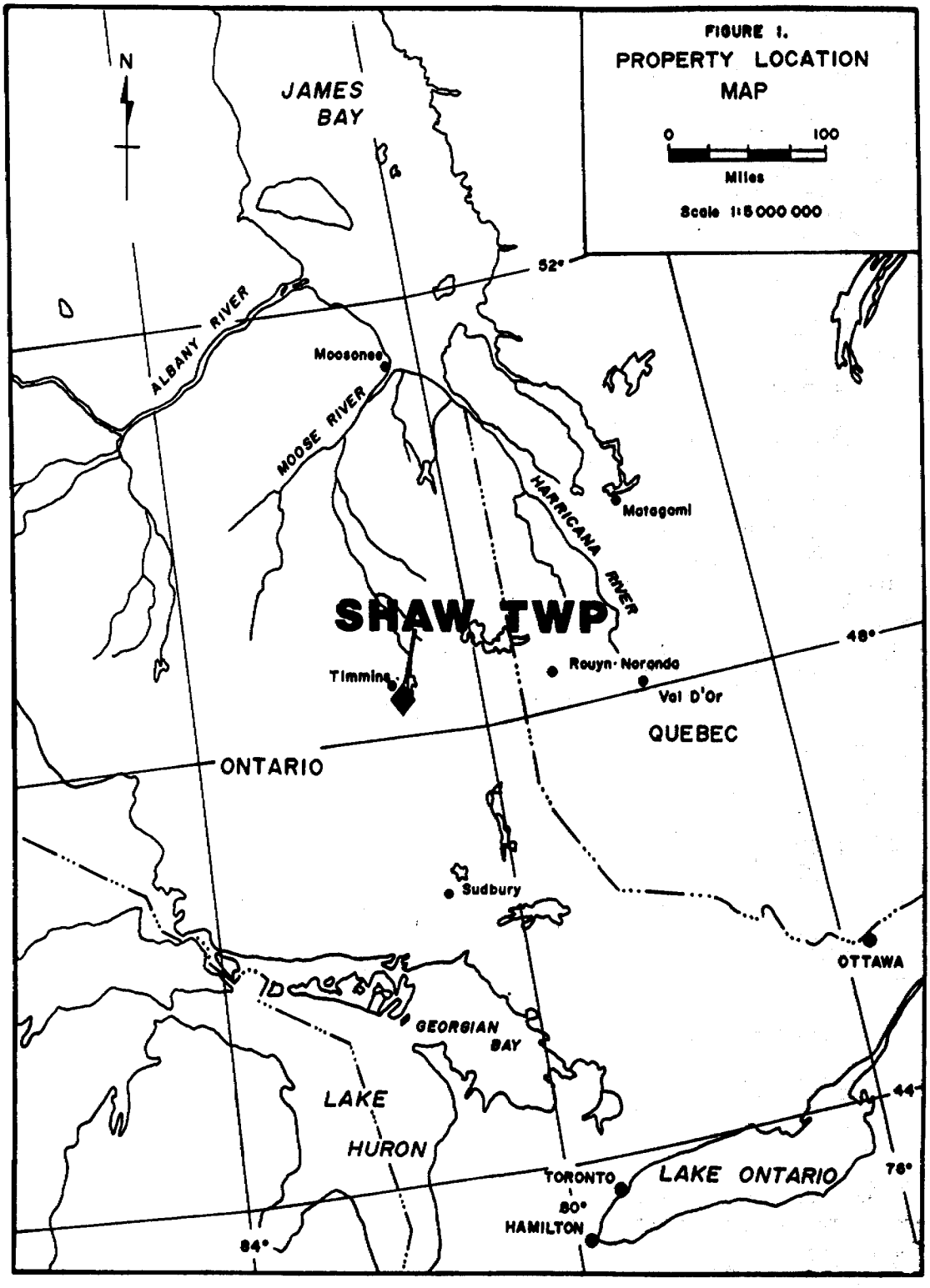
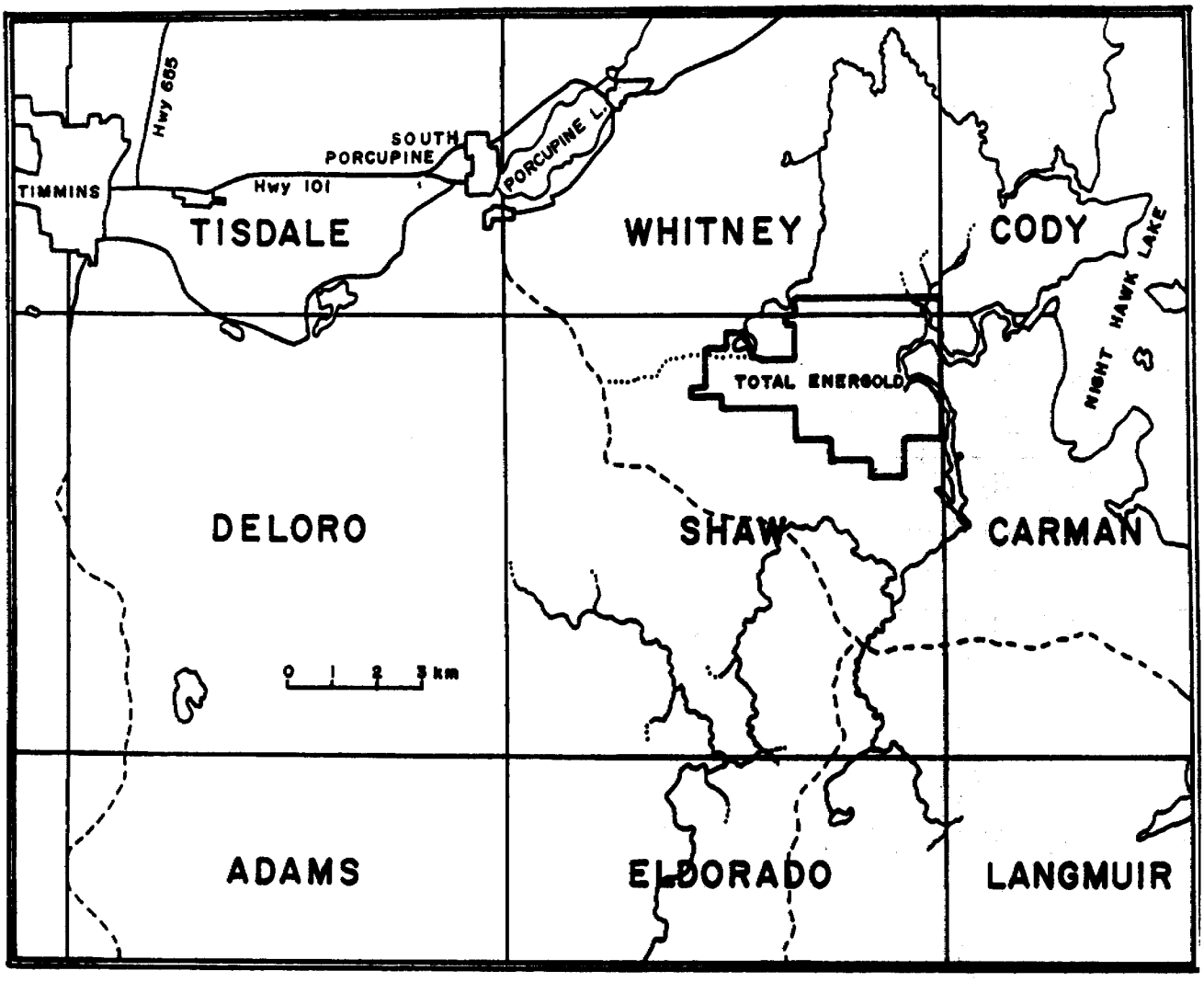
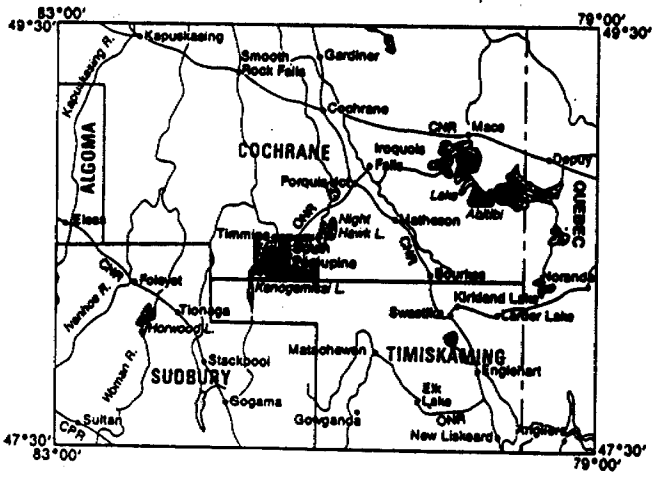


FIGURE 1.
PROPERTY LOCATION MAP
0
100
Miles
Scale 1:5 000 000
N
JAMES BAY
52°
ALBANY RIVER
Moosonee
MOOSE RIVER
HARRICANA RIVER
Matagami
SHAW TWP
Timmins
Rouyn-Noranda
Val D'Or
48°
QUEBEC
ONTARIO
Sudbury
OTTAWA
GEORGIAN BAY
LAKE HURON
44°
TORONTO
LAKE ONTARIO
76°
80°
HAMILTON
84°





Aeromagnetic reference 2393G
N.T.S. reference 42A/6

LOCATION MAP

SHAW #1 Group

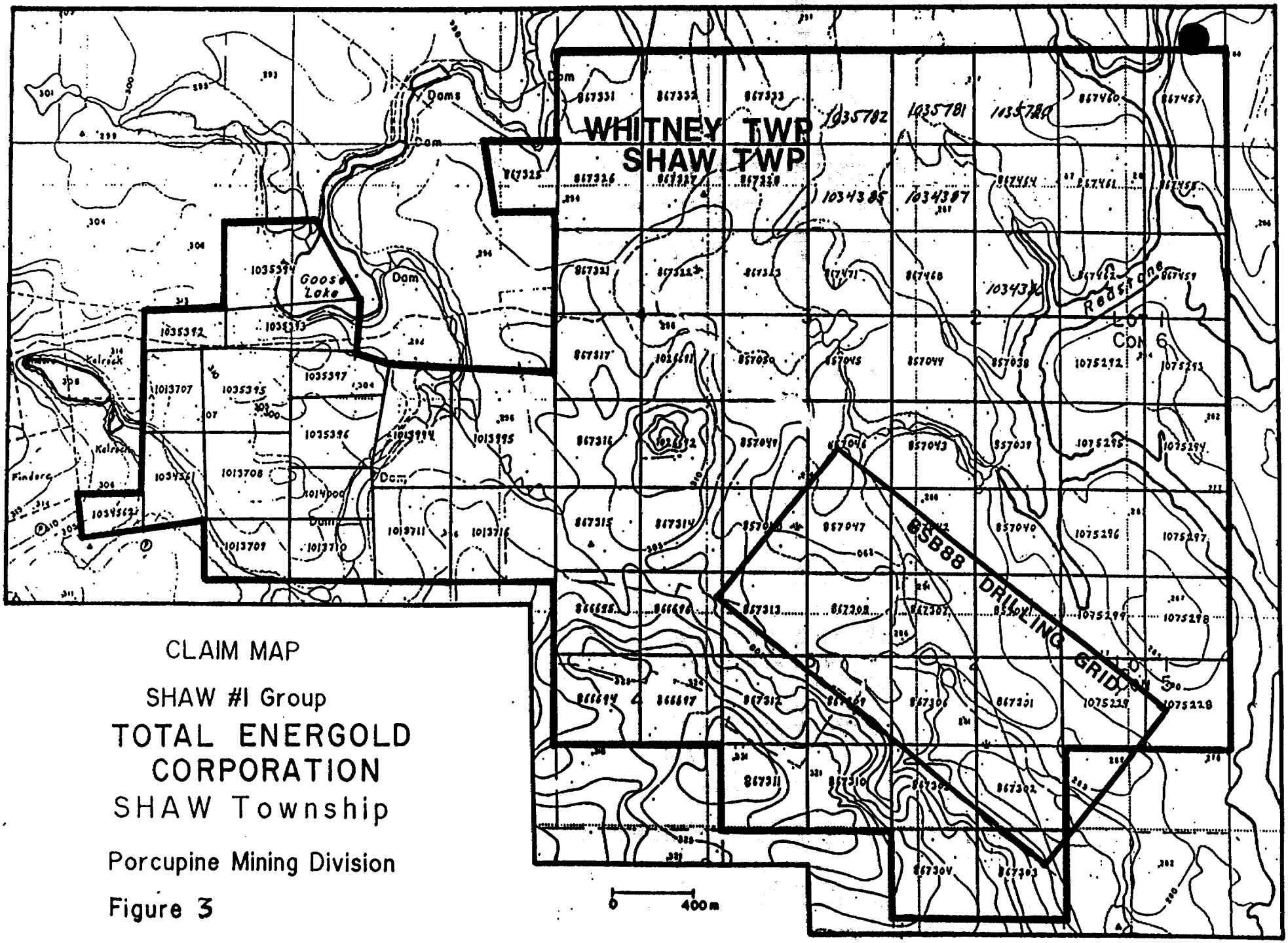
TOTAL ENERGOLD CORPORATION

SHAW Township

Porcupine Mining Division

Ontario

Figure 2



CLAIM MAP

SHAW #1 Group

TOTAL ENERGOLD CORPORATION

SHAW Township

Porcupine Mining Division

Figure 3

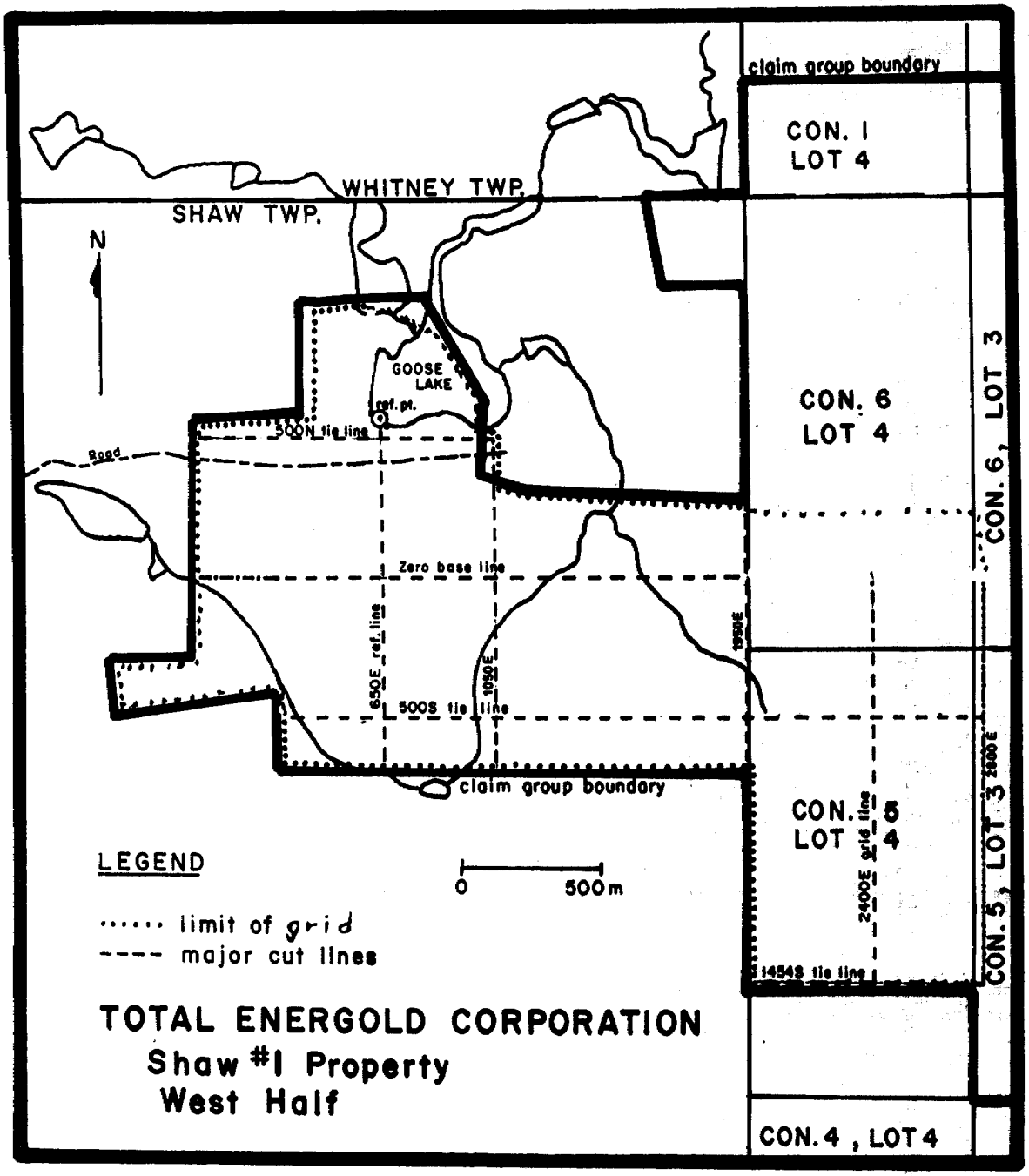


Figure 3a – Area covered by cutline grid

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 25 claims:

The claims are numbered:

P-866694 to P-866697
P-867314 to P-867316
P-1013707 to P-1013711
P-1013716
P-1013994 & P-1013995
P-1014000
P-1026692
P-1034561 & P-1034562
P-1035392 to P-1035397

They form a block covering portions of Lots 4 to 7, 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.

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'.

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.

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).

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.

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.

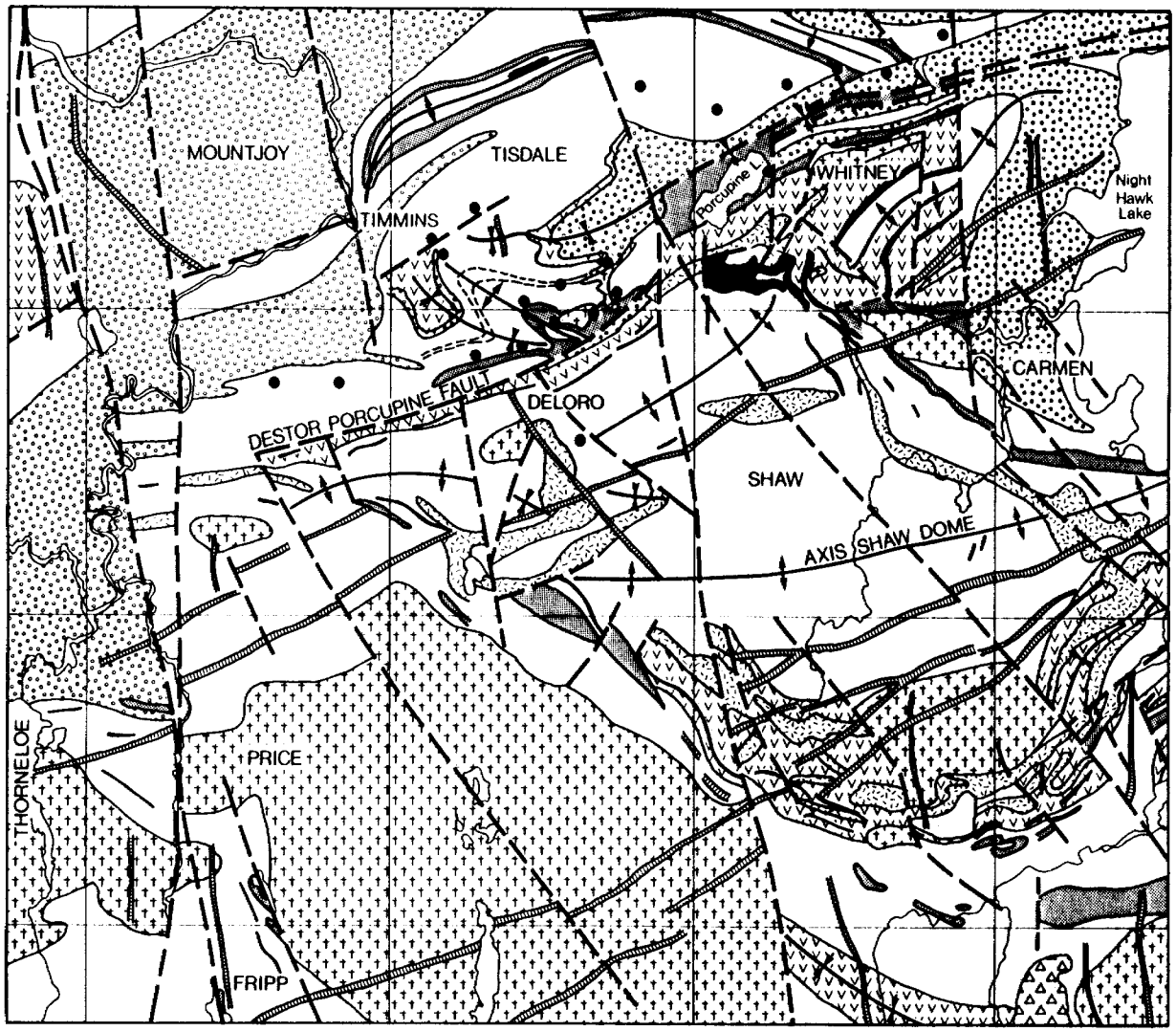


Figure 4 – Geology of the Timmins district (after Pyke 82)

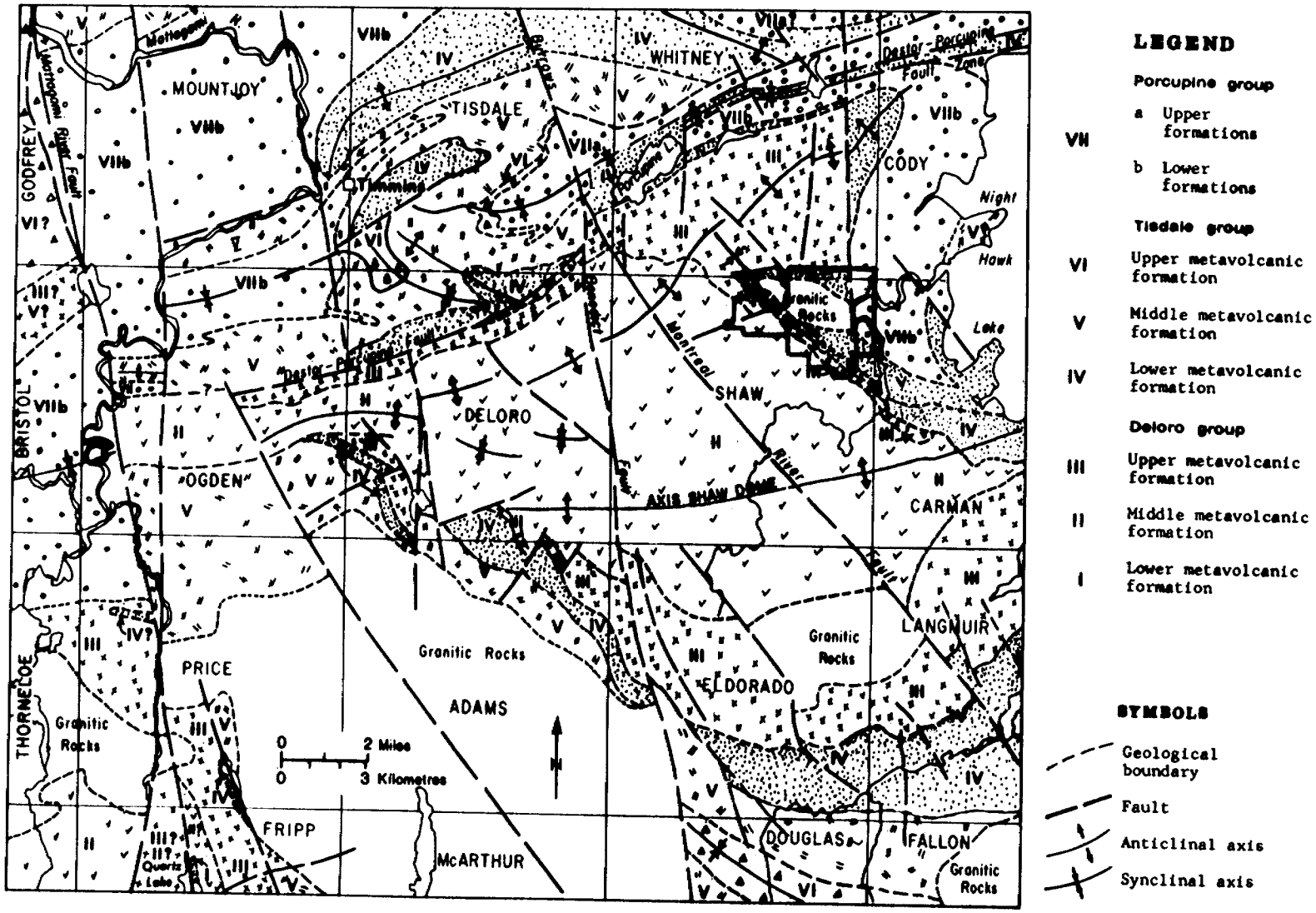


Figure 5 – Stratigraphic map of the Timmins district (after Pyke 82)

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-feldsapar 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

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.

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 property 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 property (Pyke 1982, map 2455), but the extent of these is currently unknown.

LINECUTTING AND SURVEY METHODS

Linecutting

A grid Reference Point called 650E, 575N was established on the south shore of Goose Lake (Figure 5). This point was accurately located by triangulating three points on Goose Lake. From this station, an azimuth was established and a line was cut south, and at 575 meters along the north-south line a 2800 metre E-W zero baseline was established.

From this zero baseline, lines were cut north and south at 50 metre intervals from OE to 1950E, and south at 100 metre intervals from 2000E to 2800E.

Lines 0E to 1050E are tied together in the north by a 500N tie line and in the south by a 500S tie line. Lines 1100E to 2800E are connected by a tie line at 500S, and lines 2000E to 2800E end at a tie line at 1454S. See Figure 3a.

Magnetic Survey

The total field ground magnetic survey was conducted along the grid of cut lines from Line 0+00 to Line 2800 E, using a model GSM-8 proton precession magnetometer from GEM Systems, Inc. The readings were taken during June and July 1988 at 12.5 m intervals at all points except those few where flooded conditions upstream from beaver dams made it impossible and over Goose Lake. Corrections for diurnal variations were made by the

interpolation of recorded changes at baseline stations whose values had been previously determined by having been read in a series of closed loops. During the survey a base station was read at least every half hour, and all the secondary base stations were tied to a main base station at 600W,100N, whose total field magnetic value was determined to be 58,235 gammas.

All the diurnally corrected readings from this section of the grid were recorded manually, and later transferred to a computer disk.

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.

During December 1988 and January 1989, lines were picketed over Goose Lake and the grid was extended to the property boundary to the north and south over the newly acquired claims P1034561 and P1034562. At this point Timmins Geophysics was contracted to complete the magnetic survey in these areas.

The survey was run using two Scintrex magnetometers. One unit was used as a base station, and at the end of each day, the readings were automatically corrected for the diurnal effect by connecting the two instruments. The resultant corrected total field ground magnetic results were transferred from the instrument to a computer disk. This portion of 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 two surveys were tied together by applying a correction factor after repeated readings on the zero baseline and the 650 E reference line.

The survey was conducted in January of 1989. The results of the survey 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 A, A14, A17, A18, A24, A19 (a,b,c,d) in the pockets of this report (a total of 24 maps).

Including those of the tie lines, 4884 stations had the total field measured during the course of the survey.

Electromagnetic Survey

One VLF electromagnetic survey was conducted along the same grid lines by means of a Model EM-16 electromagnetic receiver manufactured by Geonics Ltd. of Toronto, Canada. Measurements of the in-phase (dip) and quad-phase (quadrature) components were made from a 17.8 kilohertz electromagnetic field transmitted from a naval communications station located near Cutler in the State of Maine. In the Timmins area, the direction of Cutler is 95 degrees from true north, thus providing good coupling with the grid lines and suspected bedrock formations.

The readings were taken at 25 m intervals at all points except those few where flooded conditions upstream from beaver dams made

it impossible, and over Goose Lake. On some lines where -EM activity was noticeable, readings were taken at 12.5 m intervals.

The survey was conducted during July and August 1988. The results of the survey were transferred to a computer disk and turned over to Sheldrake and Associates Ltd., 1500 - 409 Granville Street, 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 in Maps A, A14, A17, A18, A19, A24 (e, f)in the pockets of this report (a total of 12 maps).

A second VLF survey was conducted in the same fashion over the same grid with the same instrument. This survey was conducted by Timmins Geophysics, reading measurements made from the Annapolis station. This survey was conducted in January of 1989 and the data was also plotted and contoured by Sheldrake and Associates Ltd. and subsequently interpreted.

Also during January while the Timmins crew was in the field, additional stations were read for the Cutler survey, thereby extending the survey a few stations north and south to the property line, and to the west over claims #P103456 and #P1034562. In total, 2072 stations utilizing the Cutler frequency (NAA) and 1128 stations tuned to Annapolis (NSS) were read during this survey.

SURVEY RESULTS

Magnetic Survey Results

The total field magnetic results are plotted on the 6 maps marked "a" and the results are contoured on the "b" maps.

Maps A and A17 are dominated by a strong magnetic feature which coincides with a mapped outcrop area of magnetite-rich iron formation striking approximately 140 . The formation actually passes through the common corner of the 4 maps A, A18, A14, and A17.

In Map A the iron formation is either folded or has been subjected to bedding plane faults because the spacial distribution of the magnetic high is approximately three times that of its exposure on Map A17.

Other features which are exposed in outcrop and interpretable in the contoured results are two dykes, one diabase northeasterly-trending (060) and one north-trending (360). Both these dykes cross the iron formation at the common corner of the four maps A, A18, A14, and A17 where a certain structural complexity occurs. Several northeasterly-trending faults (040) are suggested by the magnetic field maps and shown on the maps A and A18.

Again in the easterly corner of Map A17, the iron formation is offset by northeasterly and northerly faulting, and possibly cut by another north trending diabase dyke. Furthermore, the strike appears to change locally to an east-west direction.

Magnetic Gradient Survey Results

The magnetic gradient data is plotted on the 5 maps marked "c" and the results are contoured on the "d" maps.

To a large extent the gradient survey reflects the iron formation and the diabase dykes as the dominant magnetic features in the amp area; however, some smaller gradient anomalies, both negative and positive, are worth further examination.

Anomaly W

A negative anomaly located on map A18 approximately 600S on lines 750, 800, and 800E, this anomaly is located in an area possibly underlain by an ultramafic flow or intrusive. An anomalous 150 ppb gold rock geochemical sample was located nearby.

Anomaly X

A strong negative anomaly located on Map A18 approximately 125 south on lines 850 and 900 E, this anomaly is probably bounded by faults and could reflect hydrothermal alteration.

Anomaly Y

A series of strong positive anomalies located on Map A approximately on the 500 N tieline, and on line 750E at 350 N, these areas should be underlain by an ultramafic flow which is correlative to the Tisdale Cycle IV volcanics. The stratigraphic positioning is good, and some low anomalous gold, rock geochemical samples have been identified in the area.

Anomaly Z

This linear high anomaly parallels the iron formation trend. It is located at approximately 400 S on lines 1650 E to 1800 E.

Anomalies A and B

These are both weak positive anomalies that have no obvious explanation. They are both located on Map 24, lines 2200 E to 2800E at approximately 1100 S.

VLF-EM Survey Results

A series of weak to moderate conductors is present in the claim area. These are interpreted on Maps "f" and "g" as dark lines. On the lines are a number of individual conductive anomalies, variously indicated as "S" (strong), "M" (moderate), and "W" (weak), depending upon their relative strength.

Most of the conductors are either conductive overburden or bedrock/overburden irregularities. However, some of the anomalies appear to have correlations in the magnetic survey, and the geological mapping.

VLF-EM ANOMALIES

MAP #	VLF-EM ANOMALY	FREQUENCY
A	S3	NAA only
	S2	NAA & NSS
A18	M2	NAA & NSS
	M3	NAA & NSS
	M7	NSS only
	S1	NAA only
	M4	NAA only
A17	M1	NAA & NSS
	W2	NAA only
	W3	NAA & NSS
	M5	NAA & NSS
A14	W1	NAA & NSS
	W6	NAA only
A24	W4	NSS only
	W5	NAA & NSS

Discussion of VLF-EM Results

1. W3, W4, W5 - These anomalies flank a magnetic high and could represent steep tear faults.

2. W2 also parallels a magnetic trend, but more likely is indicative of bedding conductivity.

3. M1 and M5 - Technically both these anomalies are reasonable conductors, yet they appear to cross a diabase dyke without deviation, suggesting that they probably represent a drainage anomaly.

4. W1 - Although this is a fairly weak anomaly, since it parallels a magnetic trend and crosses drainage, it is probably a genuine weak conductor.

5. W6, W7 - Possibly drainage

6. M4, M2 - These two are very significant anomalies, paralleling magnetic features and probably crossing drainage.

7. S1 and M3 - Both these anomalies occur adjacent to a diabase dyke. They could be the same conductive feature displaced by a diabase dyke.

8. S3 - A very good anomaly representing a strong conductor. This anomaly also falls in an area of strongly carbonatized rocks associated with elevated gold values in a rock geochemical survey.

9. S2 - The conductor which gives rise to this very good anomaly appears to lie in Tisdale ultramafic Cycle IV volcanics and is associated with a strong magnetic response. It is possible that this anomaly represents a sulphide phase iron formation underlying a thin skin of Tisdale ultramafics.

CONCLUSIONS

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

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

Finally, the electromagnetic VLF-EM survey has revealed 15 very interesting anomalies. There are 8 anomalies in the strong

to moderate category, 3 of which are almost certainly sulphide-bearing structures. The response from the Cutler station was far superior to the Annapolis response.

APPENDIX I

REPORT OF WORK

APPENDIX II

CERTIFICATE OF QUALIFICATIONS

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.

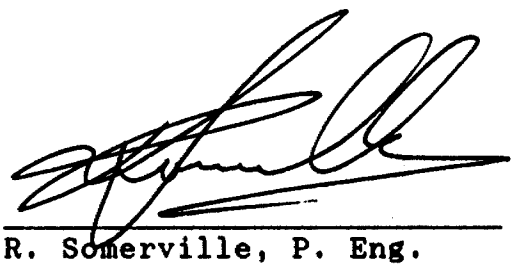
3. I am a Registered Professional Engineer of the Province of Ontario and British Columbia.

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
August 1, 1989



R. Somerville, P. Eng.

2.11829

Ontario

900

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 1Z8

Telephone: (416) 965-4888

December 19, 1989

Your File: W8906-396
Our File: 2.12705

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

Dear Sir:

Re: Notice of Intent dated November 08, 1989 for Geophysical (Electromagnetic) Survey submitted on Mining Claims P 866696 et al in 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,

Blair White

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

RM
RM:eb
Enclosure

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

Resident Geologist
Timmins, Ontario

AJM Metals/R. Somerville
103-255 West 1st Street
North Vancouver, B.C.
V7M 3G8

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File 2.12705

Date: Nov 08, 1989

Mining Recorder's Report of Work No.: W8906-396

Recorded Holder: AJM METALS LTD. / R. SOMERVILLE

Township or Area: 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	
Geological _____ days	
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☐ Ground ☐	
☐ 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 mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

Note: No gradiometer credits allowed as considered one survey performed in conjunction with magnetic survey. Please see approval for Report of Work W8906-280

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 Northern Development and Mines
Ontario

Technical Assessment Work Credits

File: 2.12705

Date: Nov 08, 1989

Mining Recorder's Report of Work No.: W8906-395

Recorded Holder: AFM METALS LTD./R. SOMERVILLE

Township or Area: SHAW TOWNSHIP.

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	P 866696-697
Electromagnetic 15 days	1013710-711
Magnetometer ____ days	1013716
Radiometric ____ days	1013994-995
Induced polarization ____ days	1014000
Other ____ days	1035393-394
Section 77 (19) See "Mining Claims Assessed" column	1035396-397
Geological ____ days	1034561-562
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ 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 mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ 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; Geological - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Mining Act

DOCUMENT No. W 8906.280

June 28

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s)	Township or Area
GEOPHYSICAL EM & MAG	SH/AW TWP.
Claim Holder(s)	**Prospector's Licence No.**
AJM METALS LTD.	T-4857
Address	
1500-700 WEST PENDER STREET, VANCOUVER B.C. V6C-1G8	
Survey Company	**Date of Survey (from & to)**	**Total Miles of line Cut**
R. SOMERVILLE GEOLOGICAL & MINING ENGINEERING LTD.	Day 1 Mo. 7 Yr. 88 / Day 16 Mo. 3 Yr. 89	74.6 km
Name and Address of Author (of Geo-Technical report)	
R. SOMERVILLE 1052 ESQUIMALT AVE, WEST VANCOUVER B.C.	

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	20
	Geophysical - Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	866694	
	866695	
	866696	
	866697	
	867314	
	867315	1127
	867316	
	1013707	
	1013708	
	1013709	
	1013710	
	1013711	
	1013716	
	1013994	
	1013995	
	1014000	
	1026692	
	1034561	
	1034562	
	1035392	
	1035393	
	1035394	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	1035395	
	1035396	
	1035397	

RECEIVED
MAY 19 1989
MINING LANDS SECTION

MAY 9 1989
0315 c.m. VC

RECORDED
MAY - 9 1989

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: 25

For Office Use Only		
Total Days Cr. Recorded: 920	Date Recorded: MAY 9 1989	Mining Recorder: Mining Recorder
	Date Approved as Recorded: Dec 19/89 R.M.	Branch Director

Date: May 8, 1989

Recorded Holder or Agent (Signature): H.Z. Titley

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: H.Z. TITLEY RR1 AUNOR, TIMMINS ONTARIO P4N 7G2

Date Certified: MAY 8, 1989

Certified by (Signature): H.Z. Titley

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditure)

Mining Act

DOCUMENT No. W8906.282

July 5.

Instructions: -- Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.

Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Type of Survey(s): GEOPHYSICAL MAG & EM

Township or Area: SHAW TWP

Claim Holder(s): AJJ METALS LTD.

Prospector's Licence No.: T-4857

Address: 1500-700 WEST PENDER STREET VANCOUVER B.C.

Survey Company: R. SOMMERVILLE GEOLOGICAL + MINING ENGINEERING LTD.

Date of Survey (from & to): 2 Day | 11 Mo. | 88 Yr. | 20 Day | 11 Mo. | 88 Yr.

Total Miles of line Cut: 2.8 km

Name and Address of Author (of Geo-Technical report): R. Sommerville 1052 ESQUIMALT AVENUE WEST VANCOUVER B.C.

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	20
	Geophysical - Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	1034561	
	1034562	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
MAY 19 1989
MINING LANDS SECTION

RECORDED
MAY 16 1989

Expenditures (excludes power stripping)

RECEIVED

Type of Work Performed

Performed on Claim(s)

MAY 16 1989

Calculation of Expenditure Days Credits

Total Expenditures: $ ÷ 15 = Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by the report of work: 2

For Office Use Only

Total Days Cr. Recorded: 80

Date Recorded: MAY 16/89

Date Approved as Recorded: Dec 19/89 R.M.

Mining Recorder: G. White

Branch Director: Blair Kuhl

Date: May 8, 1989

Recorded Holder or Agent (Signature): H.Z. Tithecott

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: H.Z. Tithecott RR1 AVNOR TIMMINS ONTARIO P4N 7C2

Date Certified: May 8, 1989

Certified by (Signature): H.Z. Tithecott

Oct.20

FROM B.C. ... MINISTRY TO:416 322 4188 SEP 6, 1989 ... P.24

(Geophysical, Geological, Geochemical and Expenditures)

W8906-395

395

Mining Act

(Annapolis)

Geophysical (Electromagnetic VLF-EM) Shaw Twp Mining Div.

Hoat Metals Ltd. / Somerville T-1855

c/o RSEM Engineering Ltd.

103-255 West 1st St North Vancouver V7M 3G8 B.C.

Timmins Geophysics / RSEM Engineering 01 01 89 01 04 89

R. Somerville 103-255 West 1st St North Vancouver B.C V7M3G8

Geophysical	Days per Claim
VLF-EM Electromagnetic Annapolis	20

Mining Claims Traversed

Prefix	Number
P	866696
	866697
	1013710
	1013711
	1013716
	1013994
	1013995
	1014000
	1035393
	1035394
	1035396
	1035397
	1034561
	1034562

RECEIVED
SEP 07 1989
MINING LANDS SECTION

RECEIVED
AUG 31 1989

RECEIVED
AUG 31 1989

15

20 AUG 31 '89

see revised statement

August 28/89 [signature]

R. Somerville 103-255 West 1st St North Vancouver

B.C. V7M 3G8 Aug 28/89 [signature]

Oct. 20

FROM M.R. PORCUPINE M. DIV. TO:416 923 4185 SEP 6 1989 P.25

(Geophysical, Geological, Geochemical and Expenditures)

W8906-396

396

Mining Act

R5609

Timmins Geophysics / Engineering Ltd.

R. Somerville 105-255 West 1st St. North Vancouver, B.C. V7M 3G8

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Electromagnetic	
	Gradient Magnetometer	20
For each additional survey using the same grid: Enter 20 days (for each)	Radiometric	
	Other	
	Geological	
	Geochemical	
Man Days: Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	
	Other	
	Geological	
	Geochemical	
Airborne Credits. Note: Special provisions credits do not apply to Airborne Surveys	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.
P	866694	
	866695	
	866696	
	866697	
	~~867314~~	*
	~~867315~~	*
	867316	
	1013707	
	1013708	
	1013709	
	1013710	
	1013716	
	1013994	
	1013995	
	1014000	
	~~1026692~~	*
	1035392	
	1035393	
	1035394	
	1035395	
	1035396	
	1035397	

RECEIVED SEP 07 1989 MINING LANDS SECTION

RECEIVED AUG 31 1989

RECEIVED AUG 31 1989

Expenditures (Excludes power stripping)

Type of Work Performed

Total Expenditures $ ÷ 15 = Total Days Credits

*MAX REACHED - NOT ALLOWED.

For Office Use Only

380 AUG 31/89

See revised statement

August 28/89

Certification Verifying Report of Work

R. Somerville 105-255 West 1st St. North Vancouver B.C. V7M 3G8

Aug 28/89

FROM:M.R. PORCUPINE MIN.DIV. TO:416 922 4108 AUG 11, 1989 9:14AM P.06

Sept

Ontario Ministry of Northern Development and Mines

(Geophysical, Geological, Geochemical and Expenditures)

Mining Act

Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." column.
– Do not use shaded areas below.

Type of Survey(s): Magnetometer & Electromagnetic 2.1 km Line cutting

Township or Area: SHAW/WHITNEY TWP.

Claim Holder(s): AJM Metals LTD

Prospector's Licence No.: T48357

Address: Suite 1500 – 700 W. Pender St. Vancouver B.C

Survey Company: R Somerville Geological & Mining Eng. LTD

Date of Survey (from & to): 01 01 89 (Day Mo. Yr.) 01 04 89 (Day Mo. Yr.)

Total Miles of line cut: 19

Name and Address of Author (of Geo-Technical report): R. Somerville Ste 103 – 255 W 1ST St. N Vancouver V7M3G8

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	40
	Geophysical - Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

RECEIVED
AUG 1 1989
MINING LANDS SECTION

Mining Claims Traversed (List in numerical sequence)

Prefix	Number	Expend. Days Cr.
P	867331	
	867332	
	867333	
	1035780	
	867325	
	867326	
	867327	
	~~867470~~ CANCELLED	
	867328	

AMENDED

RECORDED
AUG - 9 1989

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: 8 9

For Office Use Only

Total Days Cr. Recorded: 480

Date Recorded: Aug. 9/89

Date Approved as Recorded:

Mining Recorder: Strickland

Branch Director:

Date: Aug 4/89

Recorded Holder or Agent (Signature)

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: R. Somerville 103 – 255 W. 1st St North Vancouver B.C. V7M3G8

Date Certified: Aug 4/89

Certified By (Signature)

1362 (85/12)

Ministry of Northern Development and Mines
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

DOCUMENT NO. W 8906.280

Mining Act

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): GEOPHYSICAL EM & MAG
Township or Area: SHIAW TWP.
Claim Holder(s): AJM METALS LTD.
Prospector's Licence No.: T-4857
Address: 1500-700 WEST PENDER STREET, VANCOUVER B.C.
Survey Company: R. SOMERVILLE GEOLOGICAL & MINING ENGINEERING LTD.
Date of Survey (from & to): 7 Mo. 88 Yr. / 16 Day 3 Mo. 89 Yr.
Total Miles of line Cut: 74.6
Name and Address of Author (of Geo-Technical report): R. SOMERVILLE 1052 ESQUIMALT AVE, WEST VANCOUVER B.C.

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days (This includes line cutting)	Geophysical	
	Electromagnetic	20
	Magnetometer	20
For each additional survey: using the same grid: Enter 20 days (for each)	Radiometric	
	Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	Electromagnetic	
	Magnetometer	
	Radiometric	
	Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys	Electromagnetic	
	Magnetometer	
	Radiometric	

Expenditures (excludes power stripping)
Type of Work Performed:
Performed on Claim(s):
Calculation of Expenditure Days Credits: Total Expenditures $ ÷ 15 = Total Days Credits
Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date: May 8, 1989
Recorded Holder or Agent (Signature): R. Somerville

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Number	Expend. Days Cr.
P	866694	
	866695	
	866696	
	866697	
	867314	
	867315	1127
	867316	
	1013707	
	1013708	
	1013709	
	1013710	
	1013711	
	1013716	
	1013994	
	1013995	
	1014000	
	1026692	
	1034561	
	1034562	
	1035392	
	1035393	
	1035394	

Mining Claim Prefix	Number	Expend. Days Cr.
P	1035395	
	1035396	
	1035397	

MAY 9 1989
0315 Gm

RECORDED
MAY - 9 1989

Total number of mining claims covered by this report of work: 25

For Office Use Only

Total Days Cr. Recorded: 920
Date Recorded: MAY 9 1989
Date Approved as Recorded:
Mining Recorder: Mining Recorder
Branch Director:

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: A. T. TAIT RR1 AUNOR, TIMMINS ONTARIO P4N 7G6
Date Certified: MAY 8, 1989
Certified by (Signature): R. Somerville

Development
...nes

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Mining Act

DOCUMENT No. W8906.282

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expenditure Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): GEOPHYSICAL MAG & EM

Township or Area: SHAW TWP

Claim Holder(s): AJAY METALS LTD.

Prospector's Licence No.: T-4857

Address: 1502-700 WEST PENDER STREET VANCOUVER B.C

Survey Company: R. SOMMERVILLE GEOLOGICAL & MINING ENGINEERING LTD.

Date of Survey (from & to): 2 Day 11 Mo. 88 Yr. – 26 Day 11 Mo. 88 Yr.

Total Miles of Line Cut: 2.8 km

Name and Address of Author (of Geo-Technical report): R. Sommerville 1052 ESQUIMALT AVENUE WEST VANCOUVER B.C

Credits Requested per Each Claim in Columns at right

Special Provisions

For first survey: Enter 40 days. (This includes line cutting)

For each additional survey using the same grid: Enter 20 days (for each)

	Days per Claim
Geophysical	
- Electromagnetic	20
- Magnetometer	20
- Radiometric	
- Other	
Geological	
Geochemical	

Man Days

Complete reverse side and enter total(s) here

	Days per Claim
Geophysical	
- Electromagnetic	
- Magnetometer	
- Radiometric	
- Other	
Geological	
Geochemical	

Airborne Credits

Note: Special provisions credits do not apply to Airborne Surveys

	Days per Claim
Electromagnetic	
Magnetometer	
Radiometric	

Expenditures (excludes power stripping)

RECEIVED
MAY 16 1989

Type of Expenditure Days Credits

Total Expenditures ÷ 15 = Total Days Credits

Instructions

Total Days Credits may be apportioned at the claim holder's discretion. Enter number of days credits per claim selected in columns at right.

Recorded Holder or Agent (Signature)

May 9, 1989

Certification Verifying Report of Work

I, [illegible], have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Address of Author (Print)

[illegible] RR 1 ANNOR TIMMINS ONTARIO P4N 7C2

Date Certified: May 9, 1989

Certified by (Signature)

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.
P	1034561	
	1034562	

Prefix	Mining Claim Number	Expend. Days Cr.

RECORDED
MAY 16 1989

For Office Use Only

Total Days Cr. Recorded: 80

Date Recorded: MAY 16/89

Date Approved as Recorded:

Branch Director

Mining Recorder

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Mining Act

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s)	Township or Area
GEOPHYSICAL 2 MAGNETIC 0 GRADIENT	SHAW TWP PORCUPINE MINING DIST

Claim Holder(s)	Prospector's Licence No.
A&M Metals LTD / R. Somerville	T-4857

Address: c/o RSGM Engineering LTD, 103-255 West 1st St North Vancouver V7M 3G8 B.C

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
Timmins Geophysics / RSGM Engineering LTD	01 01 89 (Day Mo. Yr.) 01 04 89 (Day Mo. Yr.)	

Name and Address of Author (of Geo-Technical report): R. Somerville 103-255 West 1st St North Vancouver V7M 3G8, B.C.

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	- Electromagnetic	
	- Magnetometer (Gradient)	20
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	866694	
	866695	
	866696	
	866697	
	867314	
	867315	
	867316	
	1013707	
	1013708	
	1013709	
	1013710	
	1013716	
	1013994	
	1013995	
	1014000	
	1026692	
	1035392	
	1035393	
	1035394	
	1035395	
	1035396	
	1035397	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

Total number of mining claims covered by this report of work.

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ + 15 = Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date	Recorded Holder or Agent (Signature)
August 28/89	

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Branch Director

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: R. Somerville 103-255 West 1st St North Vancouver. B.C V7M 3G8

Date Certified	Certified by (Signature)
Aug 28/89	

1362 (85/12)

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Mining Act

2.12705 (Annapolis)

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): Geophysical (Electromagnetic VLF-EM)	Township or Area: Shaw Twp Mining Div Porcupine
Claim Holder(s): AJM Metals Ltd. / Somerville	Prospector's Licence No.: T-4857
Address: c/o RSGM Engineering Ltd 103-255 West 1st St North Vancouver V7M3G8 B.C.	
Survey Company: Timmins Geophysics / RSGM Engineering	Date of Survey (from & to): 01 01 89 (Day | Mo. | Yr.) 01 04 89 (Day | Mo. | Yr.)
Name and Address of Author (of Geo-Technical report): R. Somerville 103-255 West 1st St North Vancouver B.C V7M3G8	Total Miles of line Cut:

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic VLF-EM Annapolis	20
For each additional survey: using the same grid: Enter 20 days (for each)	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	866696	
	866697	
	1013710	
	1013711	
	1013716	
	1013994	
	1013995	
	1014000	
	1035393	
	1035394	
	1035396	
	1035397	
	1034561	
	1034562	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

Total number of mining claims covered by this report of work.

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ____ + 15 = Total Days Credits ____

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date	Recorded Holder or Agent (Signature)
August 28/89	

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Branch Director

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying	Date Certified	Certified by (Signature)
R. Somerville 103-255 West 1st St North Vancouver B.C. V7M3G8	Aug 28/89	

1382 (85/12)

Ministry of Northern Development and Mines
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

DOCUMENT No. W8906.395
395

Mining Act

Instructions: -- Please type or print.
If number of mining claims traversed exceeds space on this form, attach a list. *
Note: -- Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. Do not use shaded areas below.

Type of Survey(s): Geophysical (Electromagnetic VLF-EM) (Annapolis)
Township or Area: Shaw Twp Mining Div: Porcupine
Claim Holder(s): AJM Metals LTD. / Somerville
Prospector's Licence No.: T-4857
Address: c/o RSGM Engineering LTD 103-255 West 1st St North Vancouver V7M3G8 B.C.
Survey Company: Timmins Geophysics / RSGM Engineering
Date of Survey (from & to): 01 01 89 (Day | Mo. | Yr.) 01 04 89 (Day | Mo. | Yr.)
Total Miles of line Cut:
Name and Address of Author (of Geo Technical report): R. Somerville 103-255 West 1st St North Vancouver B.C V7M3G8 *

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	Electromagnetic VLF-EM Annapolis	20
For each additional survey: using the same grid: Enter 20 days (for each)	· Magnetometer	
	· Radiometric	
	· Other	
	Geological	
	Geochemical	
Man Days		**Days per Claim**
Complete reverse side and enter total(s) here	Geophysical	
	· Electromagnetic	
	· Magnetometer	
	· Radiometric	
	· Other	
	Geological	
	Geochemical	
Airborne Credits		**Days per Claim**
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.
P	866696	
	866697	
	1013710	
	1013711	
	1013716	
	1013994	
	1013995	
	1014000	
	1035393	
	1035394	
	1035396	
	1035397	
	1034561	
	1034562	

Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED
AUG 31 1989

PORCUPINE MINING DIVISION
RECEIVED
AUG 31 1989

Total number of mining claims covered by this report of work: 14

Expenditures (excludes power stripping)

Type of Work Performed:

Performed on Claim(s):

Calculation of Expenditure Days Credits
Total Expenditures: $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only
Total Days Cr. Recorded: 280
Date Recorded: AUG 31 89
Recorded Holder or Agent (Signature): B White

Date: August 28/89
Recorded Holder or Agent (Signature):

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: R. Somerville 103-255 West 1st St North Vancouver B.C. V7M3G8

Date Certified: Aug 28/89
Certified by (Signature):

1362 (85/12)

Ministry of Northern Development and Mines
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)
Mining Act

DOCUMENT No. W8906.396
396

Instructions - Please type or print.
If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
Do not use shaded areas below.

Type of Survey(s): GEOPHYSICAL MAGNETIC GRADIENT

Township or Area: SHAW TWP Mining Dist: PORCUPINE

Claim Holder(s): A&M Metals LTD / R. Somerville

Prospector's Licence No.: T-4857

Address: c/o RSGM Engineering LTD 103-255 West 1st St North Vancouver V7M 3G8 B.C

Survey Company: Timmins Geophysics / RSGM Engineering LTD

Date of Survey (from & to): 01 01 89 (Day | Mo. | Yr.) 01 04 89 (Day | Mo. | Yr.)

Total Miles of line Cut:

Name and Address of Author (of Geo-Technical report): R. Somerville 103-255 West 1st St North Vancouver B.C. V7M 3G8.

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	
	- Electromagnetic	
	- Magnetometer (Gradient)	20
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.
P	866694	
	866695	
	866696	
	866697	
	~~867314~~	*
	~~867315~~	*
	867316	
	1013707	
	1013708	
	1013709	
	1013710	
	1013716	
	1013994	
	1013995	
	1014000	
	~~1026682~~	*
	1035392	
	1035393	
	1035394	
	1035395	
	1035396	
	1035397	

RECEIVED
AUG 31 1989

PORCUPINE MINING DIVISION
RECEIVED
AUG 31 1989

Expenditures (excludes power stripping)

Type of Work Performed:

Performed on Claim(s):

Calculation of Expenditure Days Credits

Total Expenditures: $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

* MAX REACHED - NOT ALLOWED.

Total number of mining claims covered by this report of work: 19

For Office Use Only

Total Days Cr. Recorded: 380

Date Recorded: AUG 31/89

Date: August 28/89

Recorded Holder or Agent (Signature): [signature]

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: R. Somerville 103-255 West 1st St North Vancouver. B.C V7M 3G8

Date Certified: Aug 28/89

Certified [signature]

1362 (85/12)

MAP SYMBOLOGY

- Aerial Cableway
- Boundary
  - International
  - Interprovincial
  - District, Township, Indian Reserve
  - Approximate
  - Lot, Concession
  - Approximate
  - Park Boundary
- Bridge
  - Road, Railroad
- Building
- Chimney
- Cliff, Pit, Pile
- Contours
  - Interpolated
  - Approximate
  - Depression
- Control Points
  - Horizontal
  - Vertical
- Culvert
- Falls
  - Double line river
- Fence, Hedge, Wall
- Feature Outline (Construction features, etc.)
- Flooded Land
- Lock
- Marsh or Swamp
- Mast
- Mine Head Frame
- Outcrop
- Pipeline (above ground)
- Railroad
  - Single Track
  - Double Track
  - Abandoned
  - Turntable
- Road
  - Highway, County Township
  - Access (road of doubtful maintenance or significant driveway)
  - Trail, Bush Road (portage trail)
- Rapids
  - Double line river with multiple rapids
  - Double line river with multiple rapids
- Reservoir
- River, Stream, Canal
  - Approximate
  - Direction of flow
- Rock
  - Significant
- Shoal
- Spot Elevation (for elevations)
- Tower
- Transmission Line
  - Poles
  - Pylons
- Tunnel
- Utility Poles
- Wharf, Dock, Pier
- Wooded Area

AREAS WITHDRAWN FROM DISPOSITION

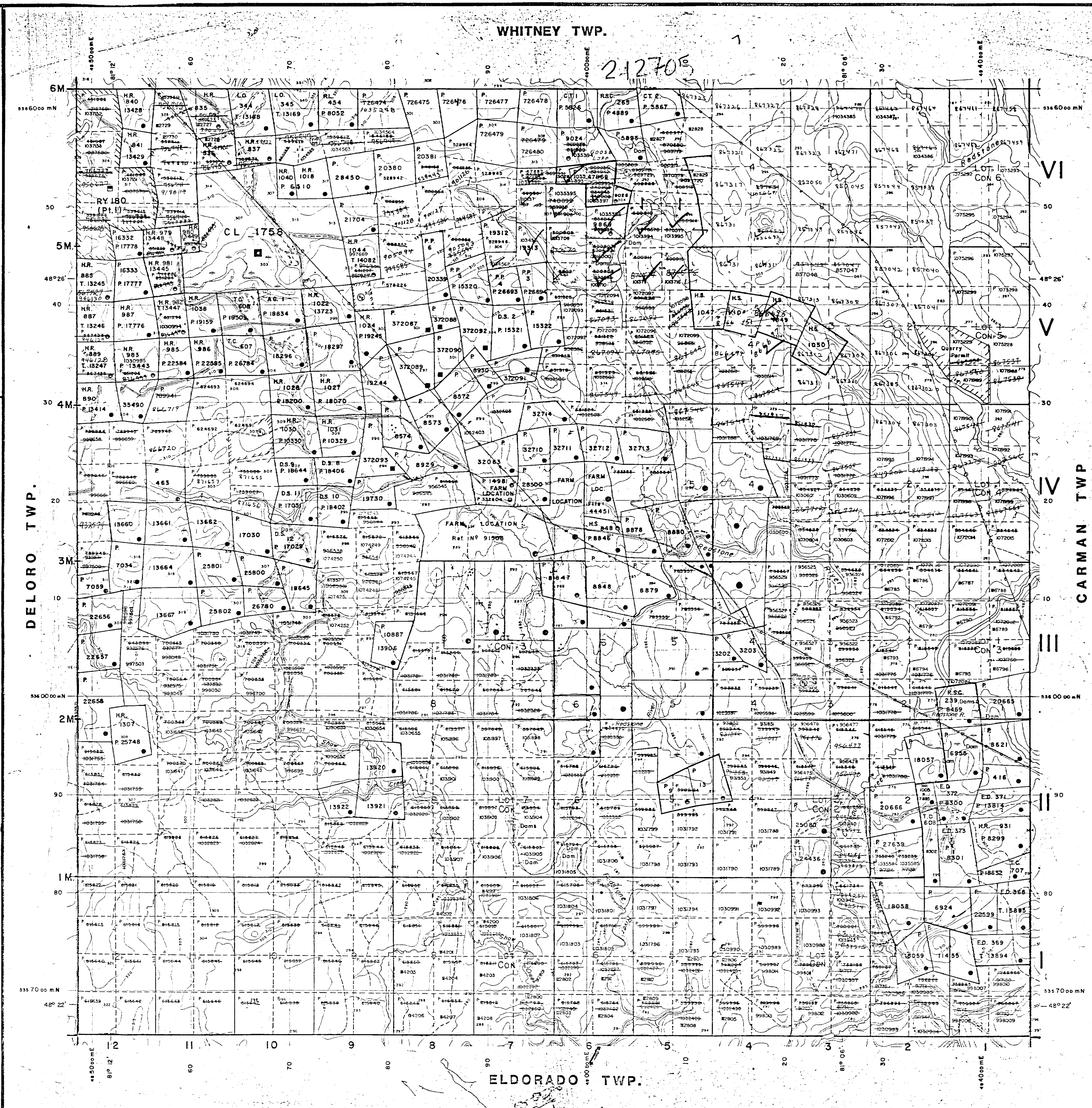
M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
Rec. Purp.	Sec. 3 PLA			188543
	W. 97/77	15/12/77	SRO	86555
(R3)	~~NRO 40/85~~	~~SEP 1/85~~	~~NRO~~	~~W 7/85~~

Reopened NRO #40/85

SAND AND GRAVEL

- GRAVEL 53666
- GRAVEL 68760



42A06NE0347 2.12785 SHAW

200

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	◐
" MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◧
" MINING RIGHTS ONLY	□
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊗
SAND & GRAVEL	ⓢ

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE 1:20 000
GRID ZONE 17

RECEIVED
AUG 10 1989

TOWNSHIP

SHAW

M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS

MINING DIVISION
PORCUPINE

LAND TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Natural Resources — Land Management Branch
Ontario

ORIGINAL COMPILATION: JULY 1984
Number: G-3999
REVISED: Updated

L0+00 L50 E. L100 E. L150 E. L200 E. L250 E. L300 E. L350 E. L400 E. L450 E. L500 E. L550 E. L600 E. L650 E. L700 E. L750 E. L800 E. L850 E. L900 E. L950 E. L1000 E L1050 E

1000 900 800 700 600 500 400 300 200 100 0

1035392 1013707 1035395 1035393 1035397 1035396 1013994 969723

Goose Lake

TIE LINE 500W

L1150 E. L1200 E L1100 E L1250 E L1300 E L1350 E.

Pond

Pond

N

	A	A14
A19	A18	A17
		A24

× Magnetic Value

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

MAGNETIC PROFILES AND POST MAP

2000 Gammas/Cm – Base Value 58,000 Gammas

SOUTH WEST GRID

2.12.05

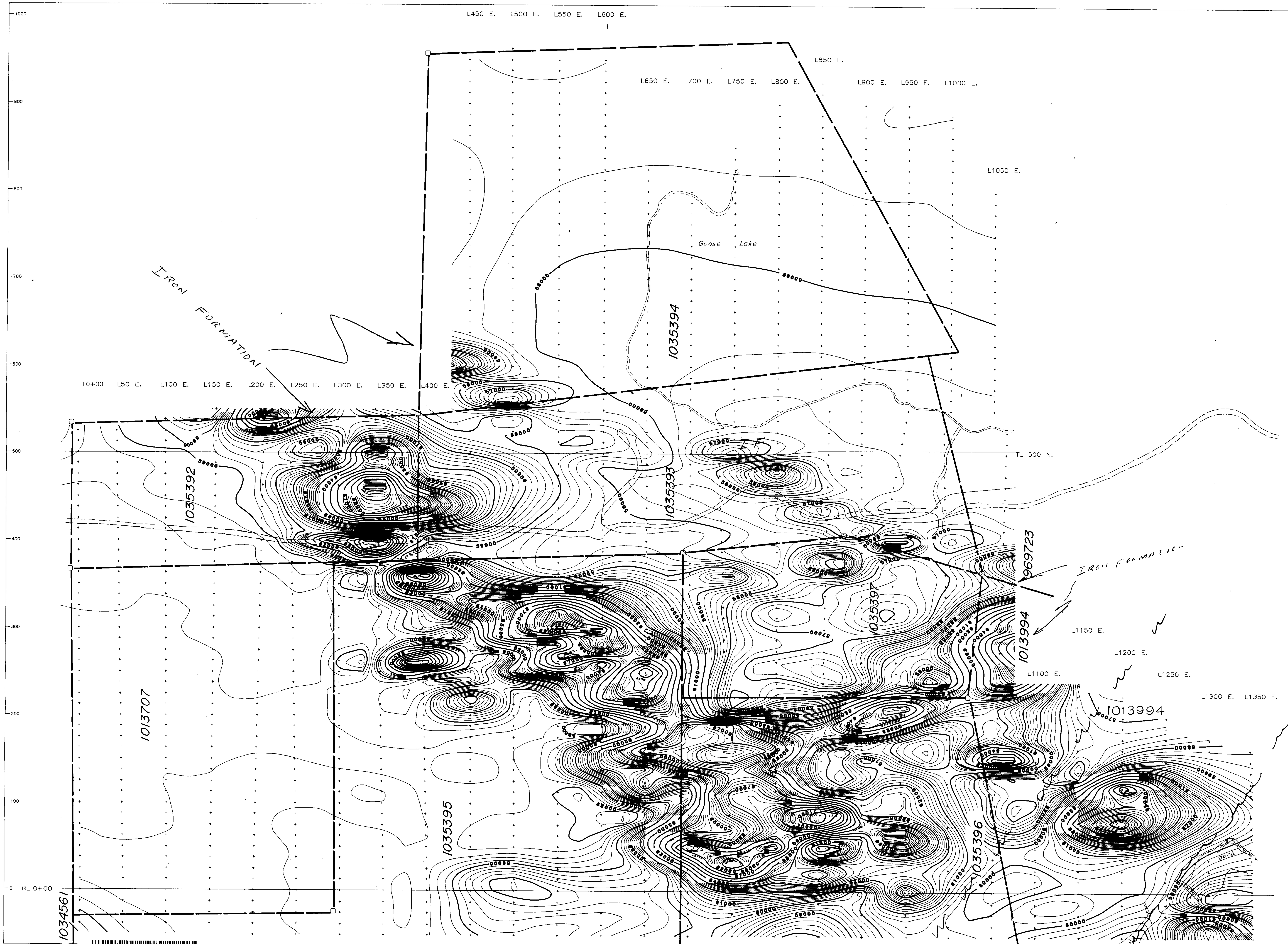
NTS Ref.:	Map A a	INSTRUMENTATION	
Data Units:	Gammas	Model :	I.G.S. System
Scale:	1:2000	Resolution :	1.0 Gammas
Date :	March 1989	Manufacturer :	Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

R. D. SOMERVILLE
Province of Ontario

42A08NE8347 2.12705 SHAW

210



TOTAL ENERGOLD CORPORATION

Shaw # 1 Group -- Shaw Township
Porcupine Mining Division

MAGNETIC CONTOUR MAP

Contour Interval 200 Gammas
SOUTH WEST GRID

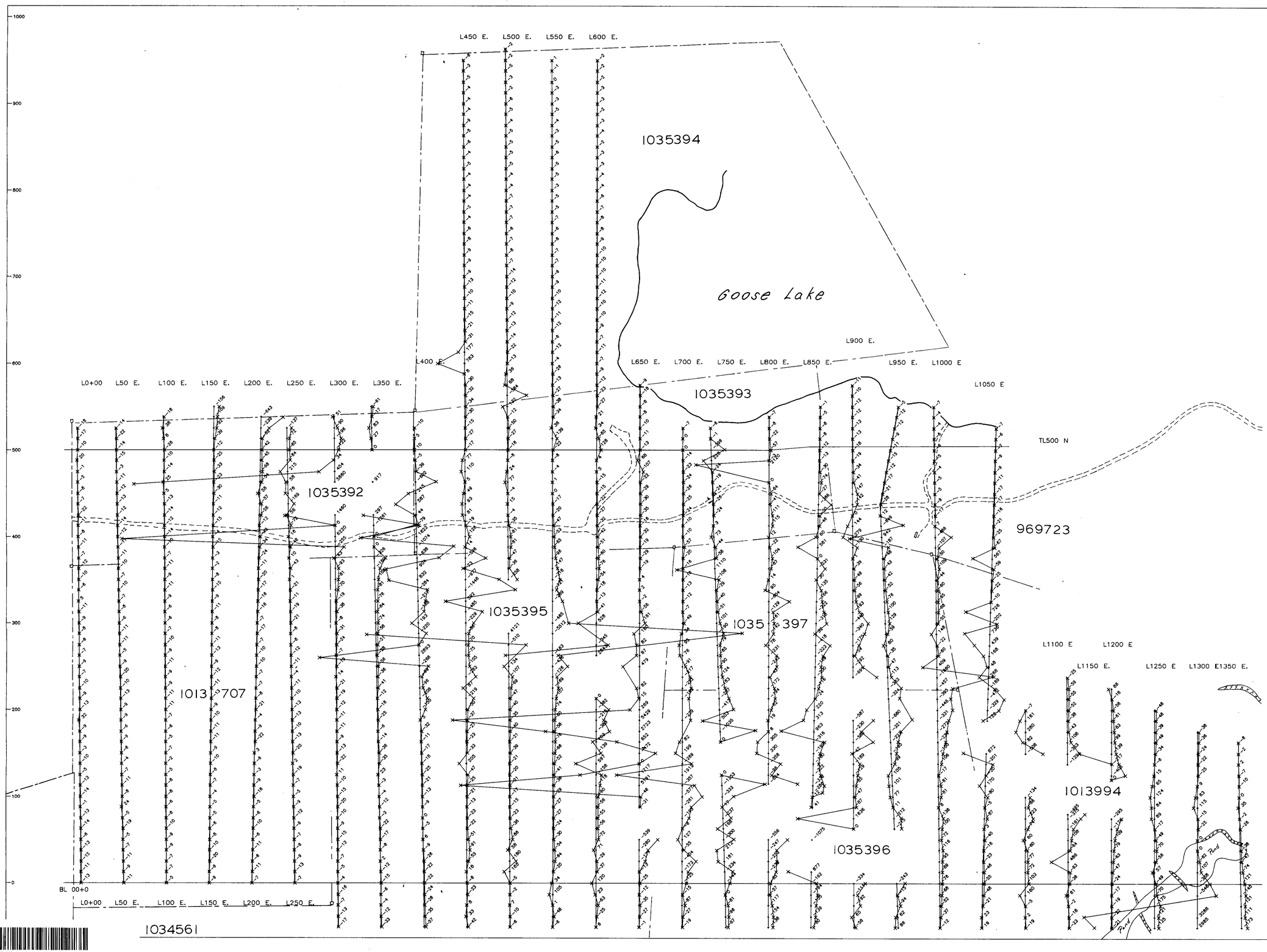
REGISTERED PROFESSIONAL ENGINEER R. D. SOMERVILLE PROVINCE OF ONTARIO

NTS Ref.:	MAP NO. A 6	INSTRUMENTATION	
Data Units:	Gammas	Model :	I.G.S. System
Scale:	1:2000	Resolution :	1.0 Gamma
Date :	March 1989	Manufacturer :	Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

42A06NE0347 2.12705 SHAW

220



A	A14
A18	A17
	A24

× Magnetic Value

REGISTERED PROFESSIONAL ENGINEER R. D. SOMERVILLE PROVINCE OF ONTARIO

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

MAGNETIC GRADIENT PROFILES AND POST MAP

500 Gammas/Metre per Cm – Base Value 0.00 Gammas/Metre

SOUTH WEST GRID

NTS Ref.:	Map A C	INSTRUMENTATION	
Data Units:	Gammas/Metre	Model :	I.G.S. System
Scale:	1:2000	Resolution :	0.1 Gammas/Metre
Date :	March 1989	Manufacturer :	Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

L450 E. L500 E. L550 E. L600 E.

1035394

Goose Lake

ANOMALY Y

L900 E.

L400 E. L650 E. L700 E. L750 E. L800 E. L850 E. L950 E. L1000 E

L0+00 L50 E. L100 E. L150 E. L200 E. L250 E. L300 E. L350 E.

L1050 E

TL500 N

1035392

1035393

ANOMALY Y

969723

1035397

L1100 E L1200 E

L1150 E. L1250 E L1300 E1350 E.

1035395

1013707

1013994

1035396

BL 00+0

L0+00 L50 E. L100 E. L150 E. L200 E. L250 E.

1034561

1000 900 800 700 600 500 400 300 200 100 0

N

A	A14
A18	A17
	A24

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township

Porcupine Mining Division

MAGNETIC GRADIENT CONTOUR MAP

Contour Interval 100 Gammas/Metre

SOUTH WEST GRID

2.12705

NTS Ref.:	MAP NO. A4	INSTRUMENTATION	
Data Units:	Gammas/Metre	Model :	I.G.S. System
Scale:	1:2000	Resolution :	0.1 Gammas/Metre
Date :	March 1989	Manufacturer :	Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

42A86NE0347 2.12705 SHAW

240

L650 E. L700 E. L750 E. L800 E. L850 E. L900 E.

L450 E. L500 E. L550 E. L600 E.

L950 E. L1000 E. L1050 E.

1035596

1035593

Goose Lake

L400 E.

L0+00 L50 E. L100 E. L150 E. L200 E. L250 E. L300 E. L350 E.

1035592

1035595

1013707

1035597

1035596

1034561

L200 E. L250 E.

BL 00+0

1000 900 800 700 600 500 400 300 200 100 0

TL500 N.

969723

L1100 E. L1200 E.

L1150 E. L1250 E. L1300 E. L1350 E.

1013994

	A	A14
A19	A18	A17
		A24

LEGEND :

NAA – Tilt. NAA – Quad.

+

NSS – Tilt. NSS – Quad.

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township

Porcupine Mining Division

VLF E.M. POST MAP

Annapolis, Maryland (NSS) and Cutler, Maine (NAA)

SOUTH WEST GRID

NTS Ref.:	MAP NO. AE	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M. 16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.

L450 E. L500 E. L550 E. L600 E. L650 E. L700 E. L750 E. L800 E. L850 E. L900 E.

L950 E. L1000 E.

L0+00 L50 E. L100 E. L150 E. L200 E. L250 E. L300 E. L350 E.

L400 E.

1035394

Goose Lake

S2

1035392

1035393

TL500 N.

L1050 E.

069723

1035397

L1100 E. L1200 E. L1300 E.

L1150 E. L1250 E. L1350 E.

1013207

1035395

53

1035396

1013994

BL 00+0

L200 E. L250 E.

1034561

1000 900 800 700 600 500 400 300 200 100 0

	A	A14
A19	A18	A17
		A24

◇ Tilt Angle Value – NAA

[I] Quadrature Value – NAA

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township

Porcupine Mining Division

VLF–EM PROFILES MAP

20 Percent/Cm – Base Value 0.0 Percent

SOUTH WEST GRID

CUTLER TRANSMITTER

2 - 12705

NTS Ref.:	Map A	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M.–16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.

L650 E. L700 E. L750 E. L800 E. L850 E. L900 E.

L950 E. L1000 E. L1050 E.

1000
900
800
700
600
500
400
300
200
100
0

1035394

Goose Lake

1035393

TL500 N.

1035392

969723

cabin

1035397

L1100 E. L1200 E. L1300 E.

L1150 E. L1250 E. L1350 E.

1013707

1035395

1035396

1013994

pond

pond

L0+00 E. L50 E. L100 E. L150 E.

BL 00+0

1034561

	A	A14
A19	A18	A17
		A24

+ Tilt Angle Value – NSS

× Quadrature Value – NSS

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

VLF–EM PROFILES MAP

20 Percent/Cm – Base Value 0.0 Percent

SOUTH WEST GRID 2 . 12705

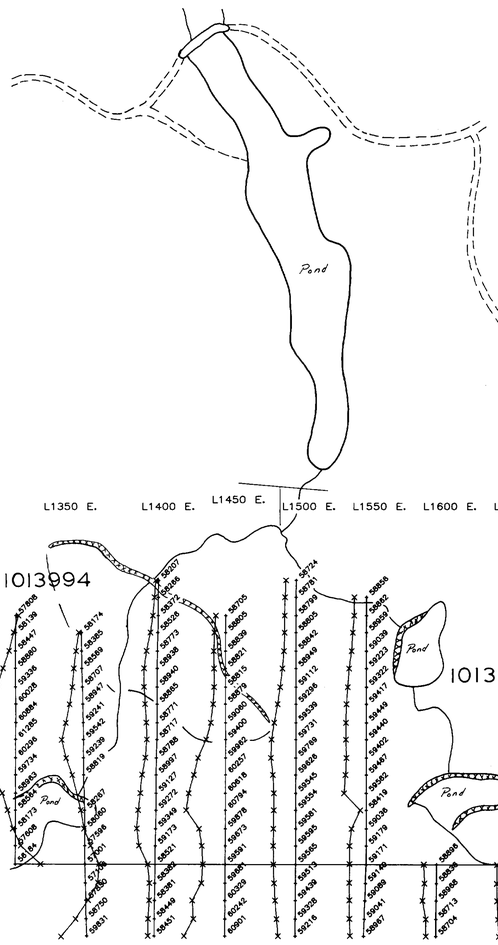
ANNAPOLIS TRANSMITTER

NTS Ref.:	Map A 9	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M.–16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.

42A06NE0347 2.12705 SHAW

270



A	A14
A18	A17
	A24

× Magnetic Value

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township

Porcupine Mining Division

MAGNETIC PROFILES AND POST MAP

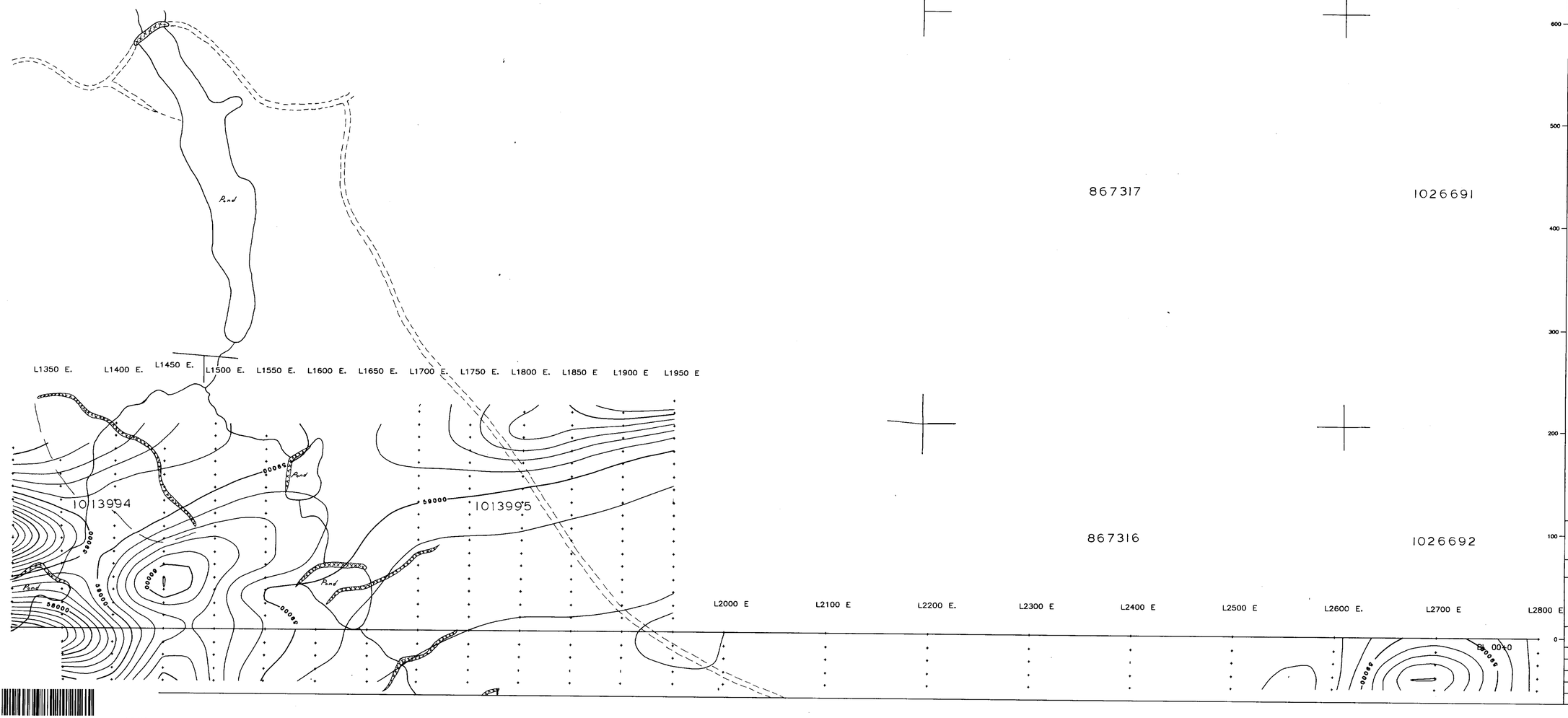
2000 Gammas/Cm – Base Value 58,000 Gammas

SOUTH WEST GRID

2.12705

NTS Ref.: Map A14 SW	INSTRUMENTATION
Data Units: Gammas	Model : I.G.S. System
Scale: 1:2000	Resolution : 1.0 Gammas
Date : March 1989	Manufacturer : Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.



TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

MAGNETIC CONTOUR MAP

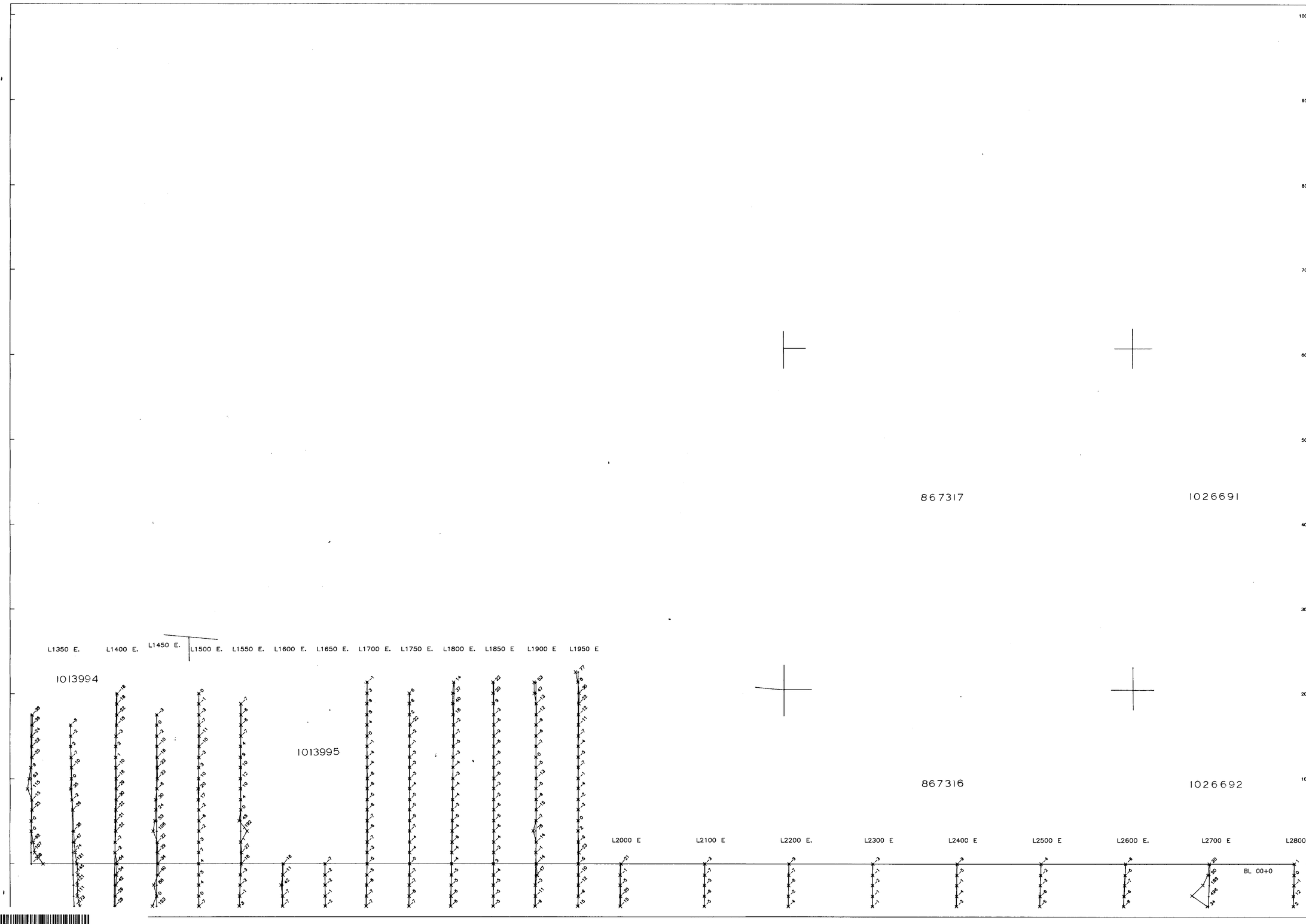
Contour Interval 200 Gammas
SOUTH WEST GRID

'2146

NTS Ref.: MAP NO. A14	INSTRUMENTATION
Data Units: Gammas	Model : I.G.S. System
Scale: 1:2000	Resolution : 1.0 Gamma
Date : March 1989	Manufacturer : Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

R. D. SOMERVILLE
REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO



TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

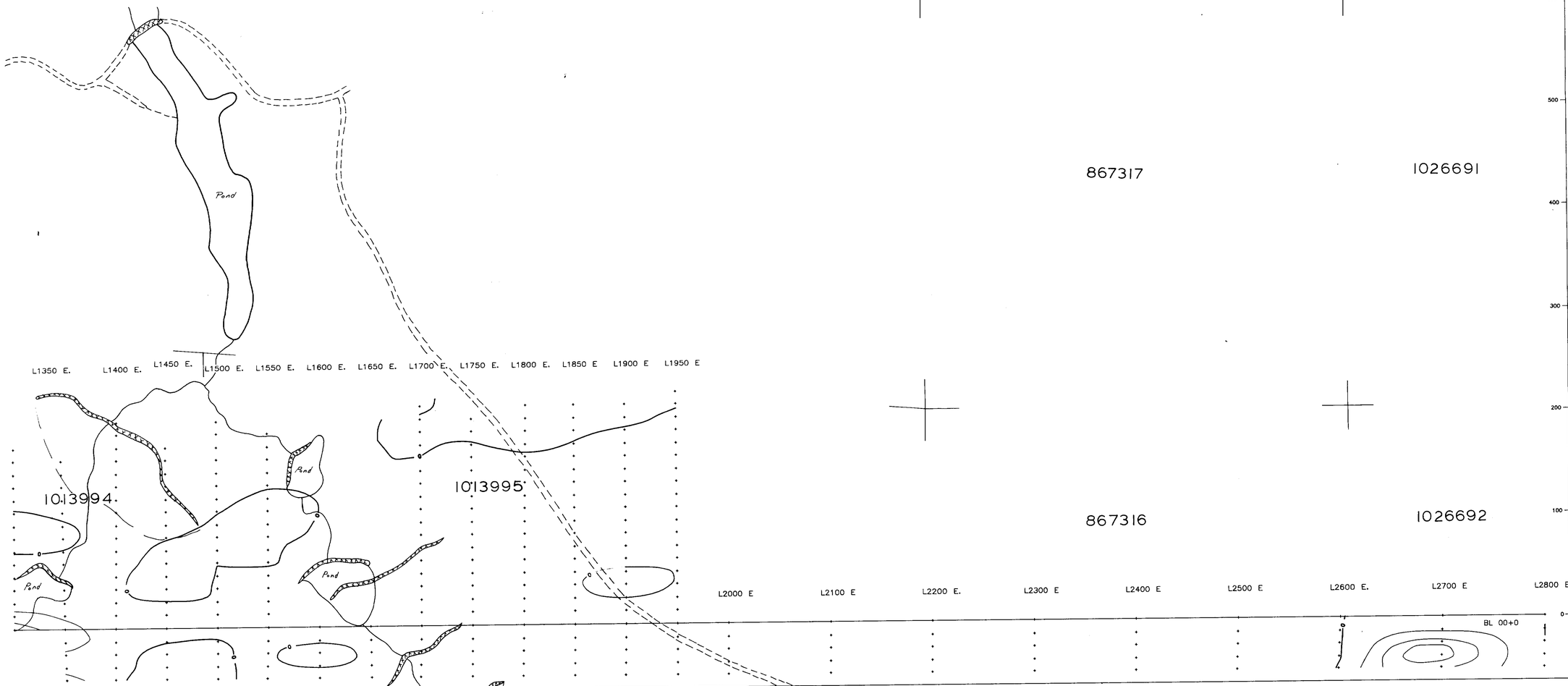
MAGNETIC GRADIENT PROFILES AND POST MAP

200 Gammas/Metre per Cm – Base Value 0.00 Gammas/Metre

SOUTH WEST GRID

NTS Ref.: Map A14 C	INSTRUMENTATION
Data Units: Gammas/Metre	Model : I.G.S. System
Scale: 1:2000	Resolution :0.1 Gammas/Metre
Date : March 1989	Manufacturer : Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.



TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

MAGNETIC GRADIENT CONTOUR MAP

Contour Interval 100 Gammas
SOUTH WEST GRID

A14d

NTS Ref.: MAP NO. A14	INSTRUMENTATION
Data Units: Gammas/Metre	Model : I.G.S. System
Scale: 1:2000	Resolution :0.1 Gammas/Metre
Date : March 1989	Manufacturer : Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

1000
900
800
700
600
500
400
300
200
100
0

N

A	A14
A18	A17
	A24

LEGEND :

NAA - Tilt. NAA - Quad
+
NSS - Tilt. NSS - Quad

867317

1026691

867316

1026692

1013994

1013995

Pond

L1350 E. L1400 E. L1450 E. L1500 E. L1550 E. L1600 E. L1650 E. L1700 E. L1750 E. L1800 E. L1850 E. L1900 E. L1950 E.

L2000 E. L2100 E. L2200 E. L2300 E. L2400 E. L2500 E. L2600 E. L2700 E. L2800 E.

BL 00+0

PROFESSIONAL ENGINEERS PROVINCE OF ONTARIO

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

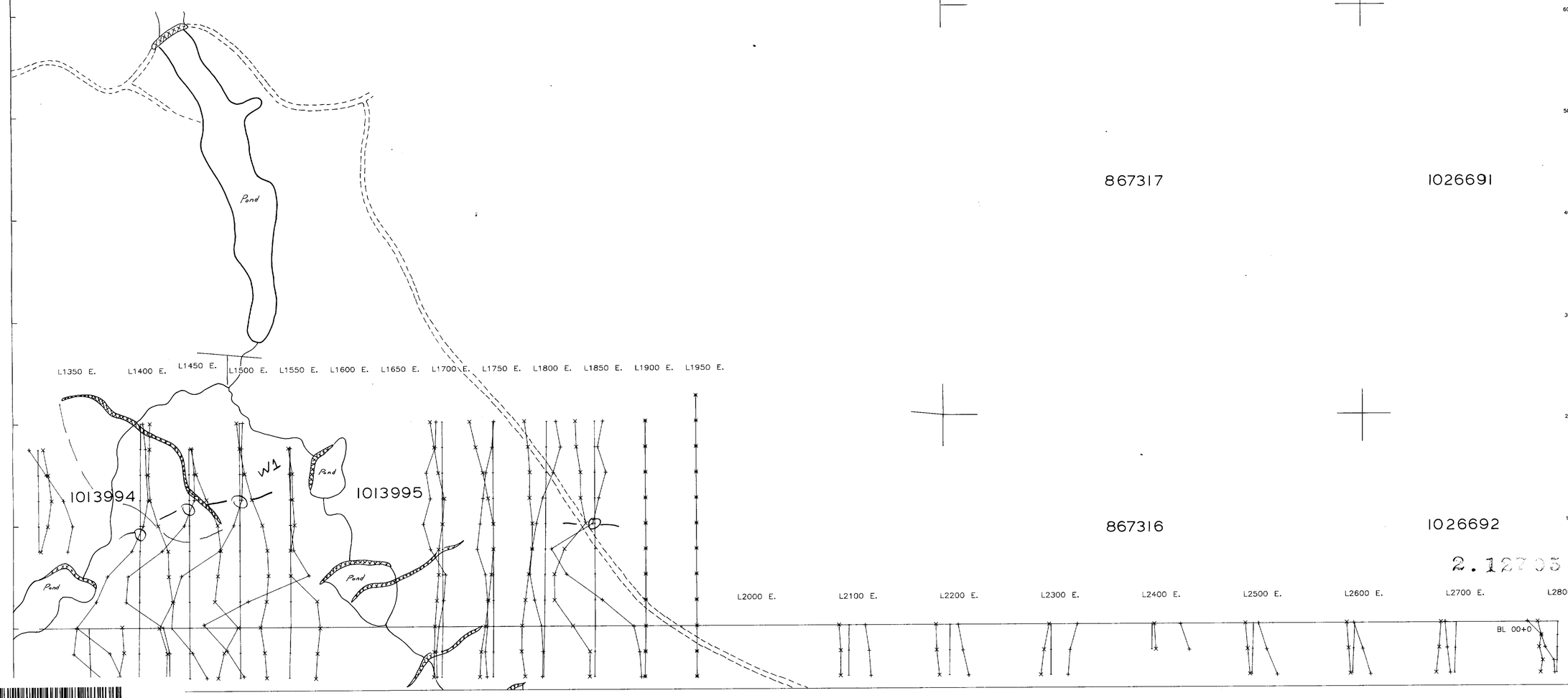
VLF E.M. POST MAP

Annapolis, Maryland (NSS) and Cutler, Maine (NAA)

SOUTH WEST GRID

NTS Ref.:	MAP NO. A14	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M. 16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

P. SOMERVILLE ENGINEERING LTD.



A	A14
A18	A17
	A24

+ Tilt Angle Value – NSS

× Quadrature Value – NSS

R. SOMERVILLE
PROVINCE OF ONTARIO

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

VLF–EM PROFILES MAP

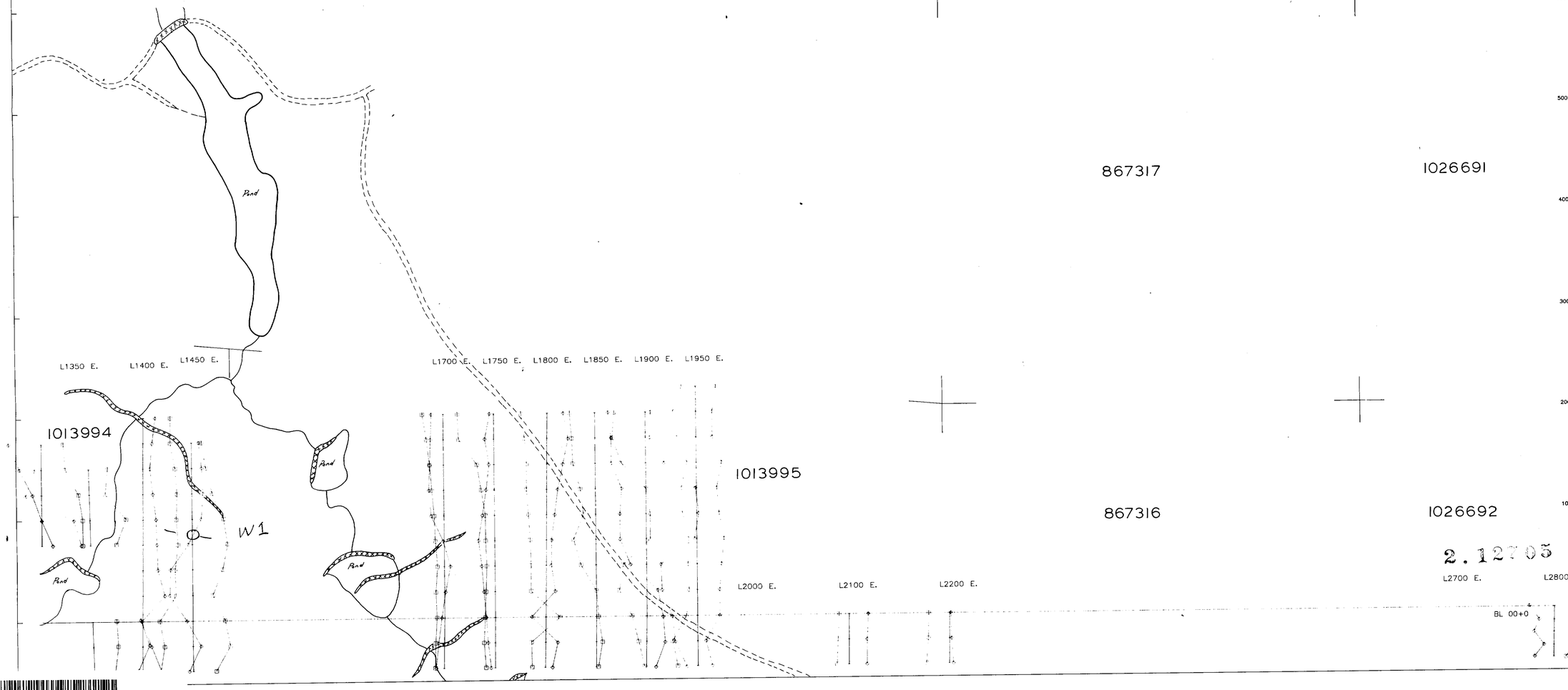
20 Percent/Cm – Base Value 0.0 Percent

SOUTH WEST GRID

CUTLER TRANSMITTER

NTS Ref.:	Map A14	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M. 16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.



TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township

Porcupine Mining Division

VLF-EM PROFILES MAP

20 Percent/Cm – Base Value 0.0 Percent

SOUTH WEST GRID

ANNAPOLIS TRANSMITTER

NTS Ref.:	Map A14	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M. 16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.

1013994

1013995

1013711

1013716

867316

867315

867314

1026692

866695

866694

866696

866697

pond

pond

L1950 E. L2000 E.

L2600 E.

L2700 E.

L2400 E.

L1350 E. L1400 E. L1450 E. L1500 E. L1550 E. L1600 E. L1650 E. L1700 E. L1750 E. L1800 E. L1850 E. L1900 E.

	A	A14
A19	A18	A17
		A24

× Magnetic Value

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township

Porcupine Mining Division

MAGNETIC PROFILES AND POST MAP

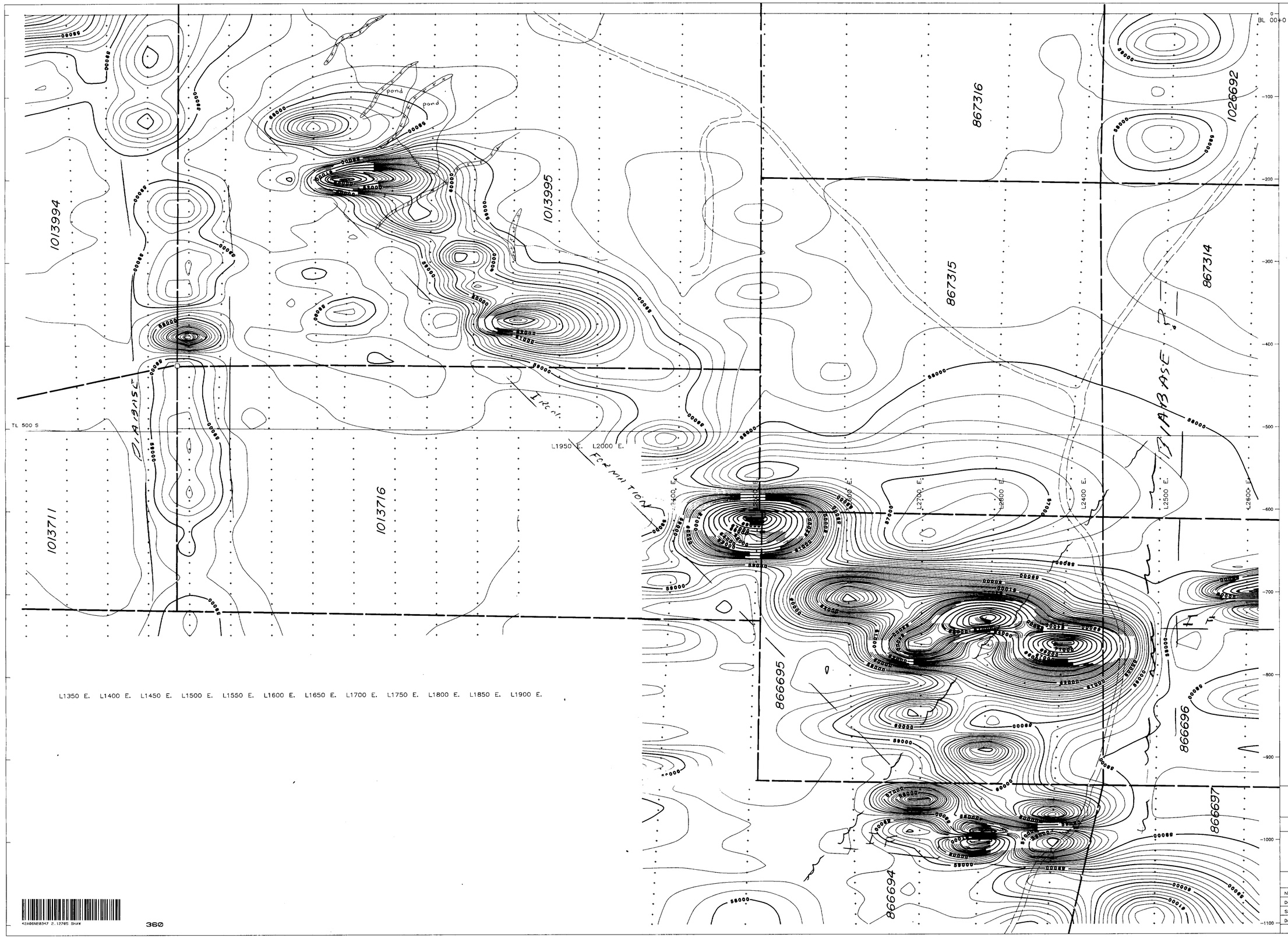
2000 Gammas/Cm – Base Value 58,000 Gammas

SOUTH WEST GRID

NTS Ref.:	Map A17 a	INSTRUMENTATION	
Data Units:	Gammas	Model :	I.G.S. System
Scale:	1:2000	Resolution :	1.0 Gammas
Date :	March 1989	Manufacturer :	Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

42A80NE0347 2.12785 SHAW



	A	A14
A19	A18	A17
		A24

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township

Porcupine Mining Division

MAGNETIC CONTOUR MAP

Contour Interval 200 Gammas

SOUTH WEST GRID

NTS Ref.: MAP NO. A17	INSTRUMENTATION
Data Units: Gammas	Model : I.G.S. System
Scale: 1:2000	Resolution : 1.0 Gamma
Date : March 1989	Manufacturer : Scintrex Ltd.

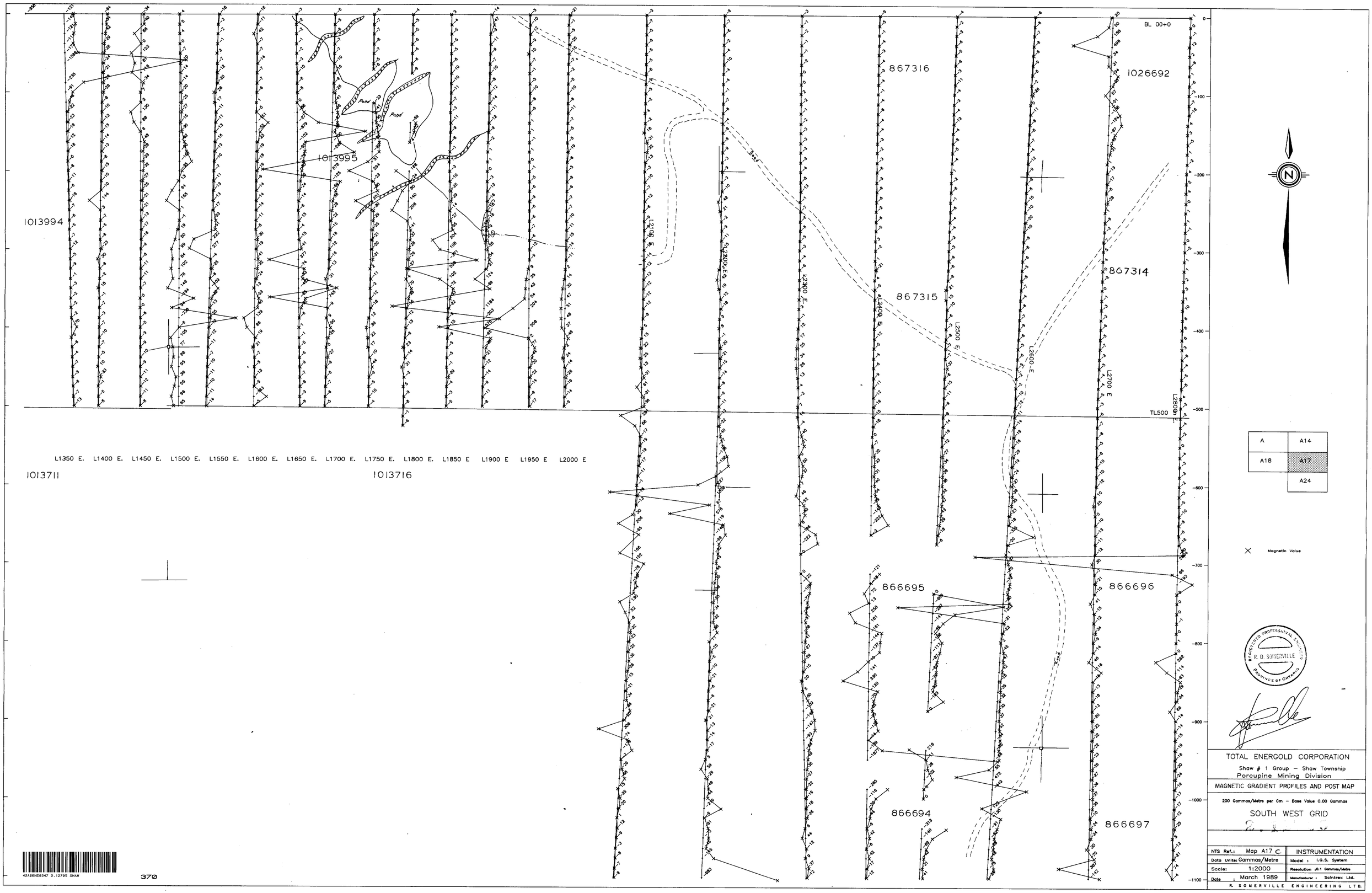
R. SOMERVILLE ENGINEERING LTD.

REGISTERED PROFESSIONAL ENGINEER R. D. SOMERVILLE PROVINCE OF ONTARIO

42A08NE0347 2.12785 SHAW

360

A17B



A	A14
A18	A17
	A24

× Magnetic Value

R. D. SOMERVILLE
REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

MAGNETIC GRADIENT PROFILES AND POST MAP

200 Gammas/Metre per Cm – Base Value 0.00 Gammas

SOUTH WEST GRID

NTS Ref.: Map A17 C	INSTRUMENTATION
Data Units: Gammas/Metre	Model : I.G.S. System
Scale: 1:2000	Resolution :0.1 Gammas/Metre
Date : March 1989	Manufacturer : Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

42A06NE0347 2.12705 SHAW

370

BL 00+0

867316

1026692

1013994

1013995

867315

867314

Road

Pond

Pond

ANOMALY N

L2100 E

L2200 E

L2300 E

L2400 E

L2500 E

L2600 E

L2700 E

L2800 E

TL500

L1350 E. L1400 E. L1450 E. L1500 E. L1550 E. L1600 E. L1650 E. L1700 E. L1750 E. L1800 E. L1850 E L1900 E L1950 E L2000 E

1013711

1013716

866696

866695

866694

866697

0 -100 -200 -300 -400 -500 -600 -700 -800 -900 -1000 -1100

N

A	A14
A18	A17
	A24

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township

Porcupine Mining Division

MAGNETIC GRADIENT CONTOUR MAP

Contour Interval 100 Gammas

SOUTH WEST GRID

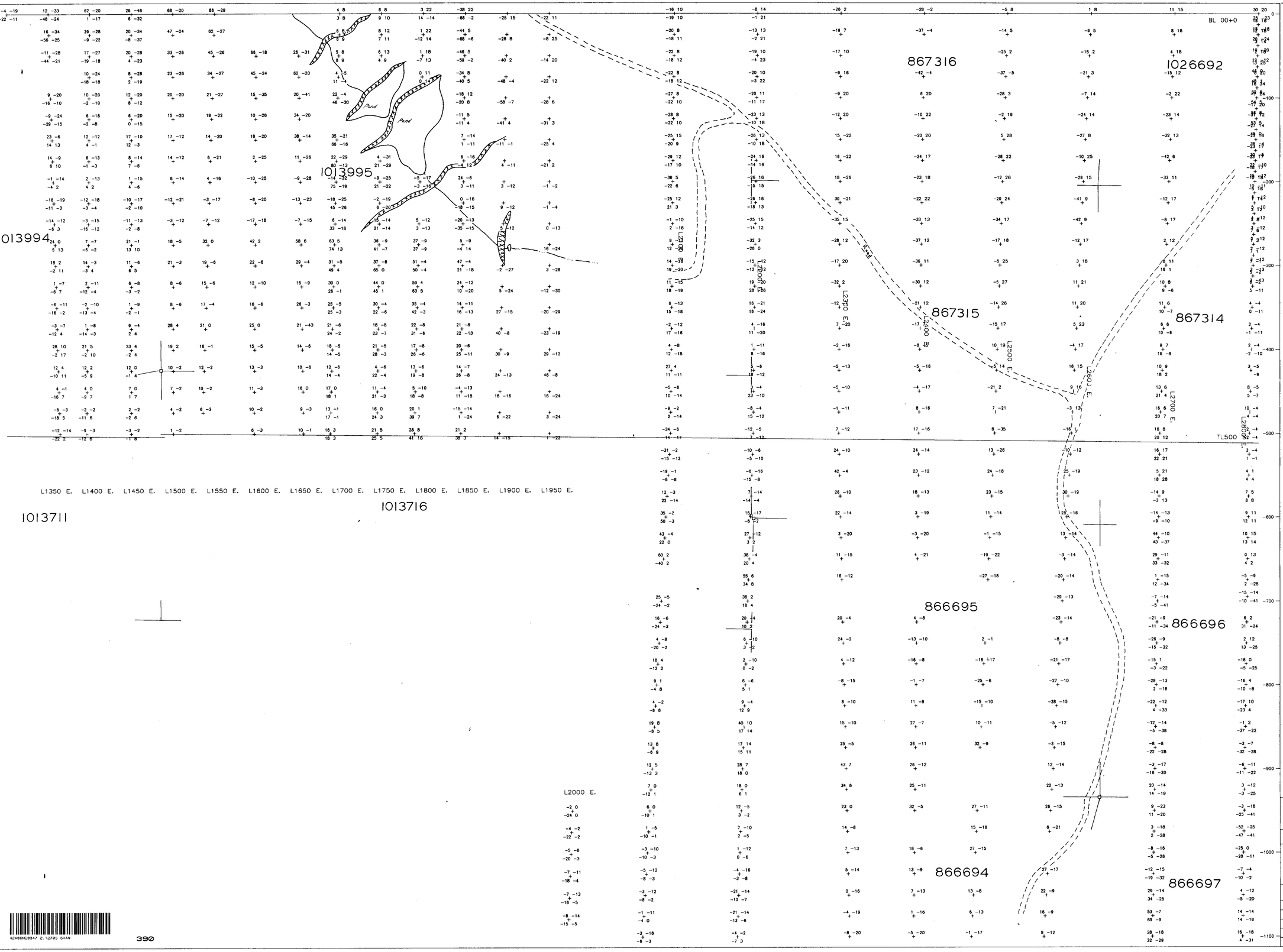
2.12A17d

NTS Ref.: MAP NO. A17	INSTRUMENTATION
Data Units: Gammas/Metre	Model : I.G.S. System
Scale: 1:2000	Resolution ±0.1 Gammas/Metre
Date : March 1989	Manufacturer : Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

R. D. SOMERVILLE

380



A	A14
A18	A17
	A24

LEGEND :

NAA - 1:10, NAA - Quad
+
NSS - 1:10, NSS - Quad

R. D. SOMERVILLE
PROVINCE OF ONTARIO

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

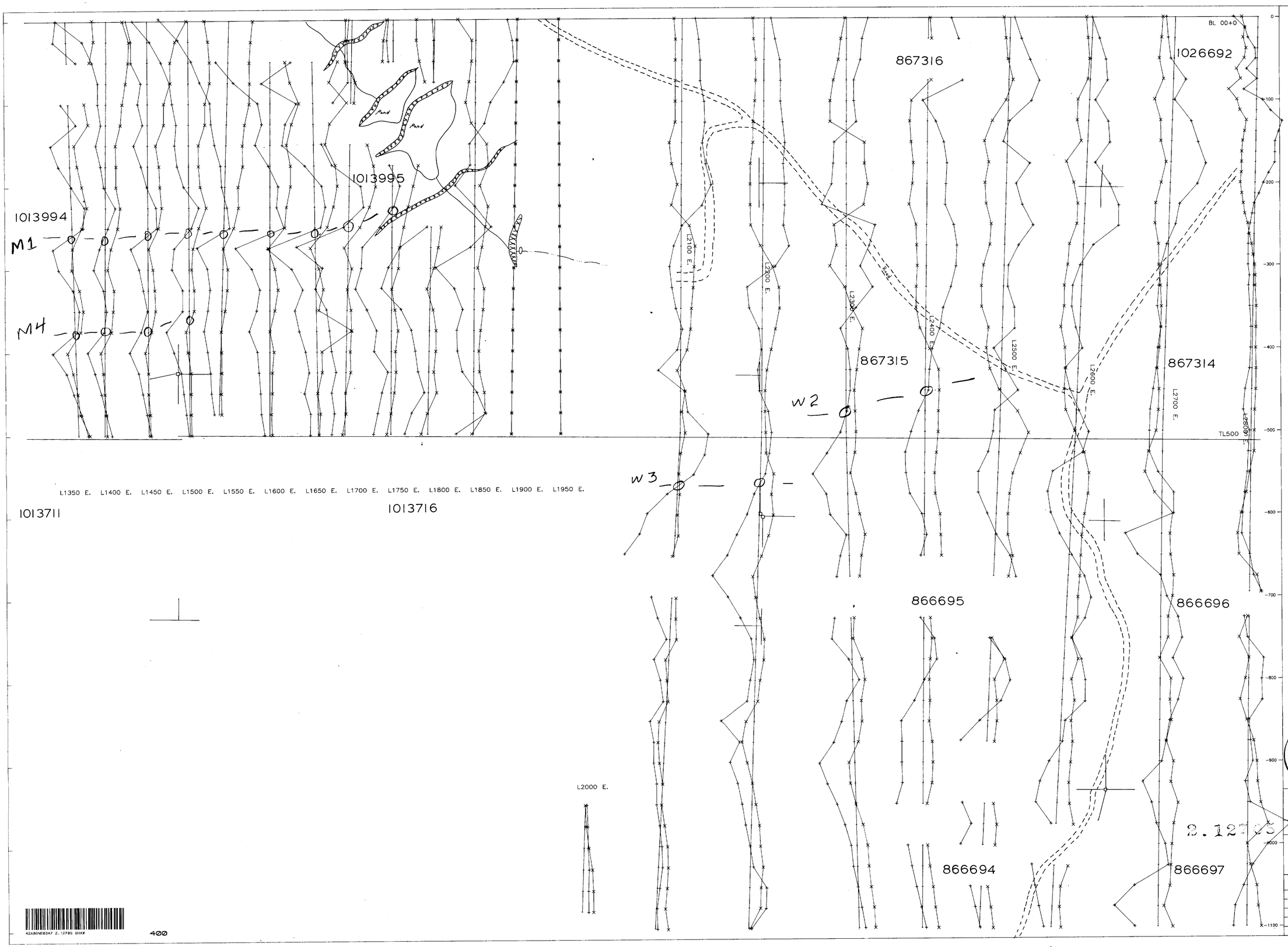
VLF E.M. POST MAP

Annapolis, Maryland (NSS) and Cutler, Maine (NAA)

SOUTH WEST GRID

NTS Ref.:	MAP NO. A17e	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M. 16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.


BL 00+0
TL500
1013994
M1
M4
1013995
Pond
Pond
1013711
1013716
L1350 E.
L1400 E.
L1450 E.
L1500 E.
L1550 E.
L1600 E.
L1650 E.
L1700 E.
L1750 E.
L1800 E.
L1850 E.
L1900 E.
L1950 E.
L2000 E.
L2100 E.
L2200 E.
L2300 E.
L2400 E.
L2500 E.
L2600 E.
L2700 E.
L2800 E.
867316
867315
867314
1026692
W2
W3
866695
866696
866694
866697
0
100
200
300
400
500
600
700
800
900
1000
1100
N
A
A14
A18
A17
A24
+ Tilt Angle Value – NSS
× Quadrature Value – NSS
2.12 [illegible]
TOTAL ENERGOLD CORPORATION
Shaw # 1 Group – Shaw Township
Porcupine Mining Division
VLF-EM PROFILES MAP
20 Percent/Cm – Base Value 0.0 Percent
SOUTH WEST GRID
CUTLER TRANSMITTER
NTS Ref.: Map A17 f
Data Units: Percent
Scale: 1:2000
Date : March 1989
INSTRUMENTATION
Model : E.M. 16
Resolution : 1.0 Percent
Manufacturer : Geonics Ltd.
R. SOMERVILLE ENGINEERING LTD.
REGISTERED PROFESSIONAL ENGINEER
PROVINCE OF ONTARIO
42A80NE8347 2.12785 SHAW
400

1013994

1013995

M1

867316

1026692

867315

867314

L2100 E.

L2200 E.

L2700 E.

L2800 E.

TL500

BL 00+0

L1350 E. L1400 E. L1450 E.

1013711

L1700 E. L1750 E. L1800 E. L1850 E. L1900 E. L1950 E.

1013716

W3

L2000 E.

866695

866696

866694

866697

A	A14
A18	A17
	A24

◇ Tilt Angle Value – NAA

□ Quadrature Value – NAA

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township

Porcupine Mining Division

VLF–EM PROFILES MAP

20 Percent/Cm – Base Value 0.0 Percent

SOUTH WEST GRID

ANNAPOLIS TRANSMITTER

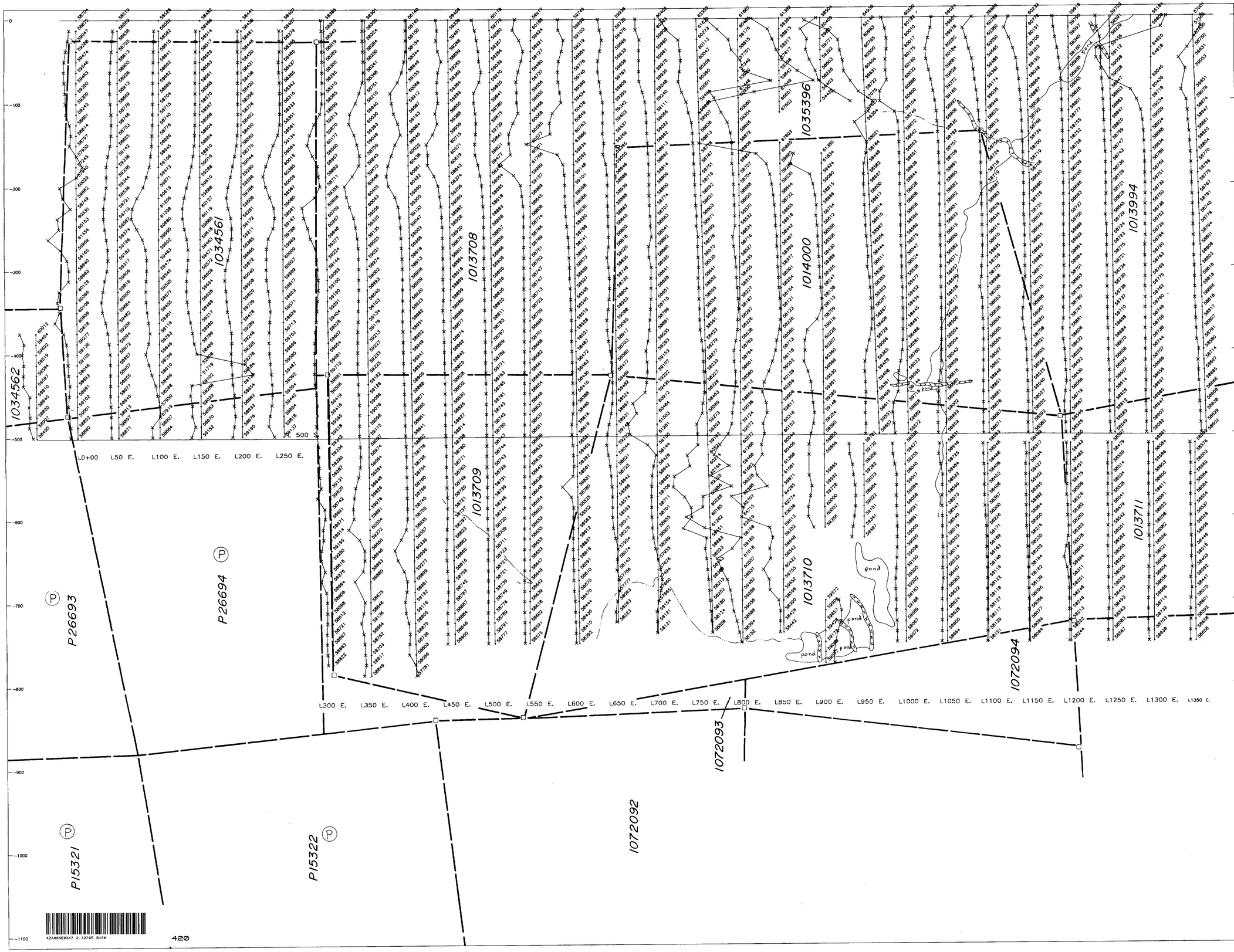
2.12705

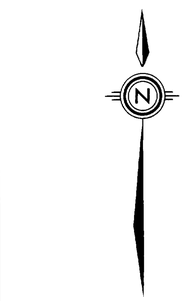
NTS Ref.:	Map A17 g	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M. 16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.

42A06NE0347 2.12705 SHAW

410





	A	A14
A19	A18	A17
		A24

× Magnetic Value

R. SOMERVILLE

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township

Porcupine Mining Division

MAGNETIC PROFILES AND POST MAP

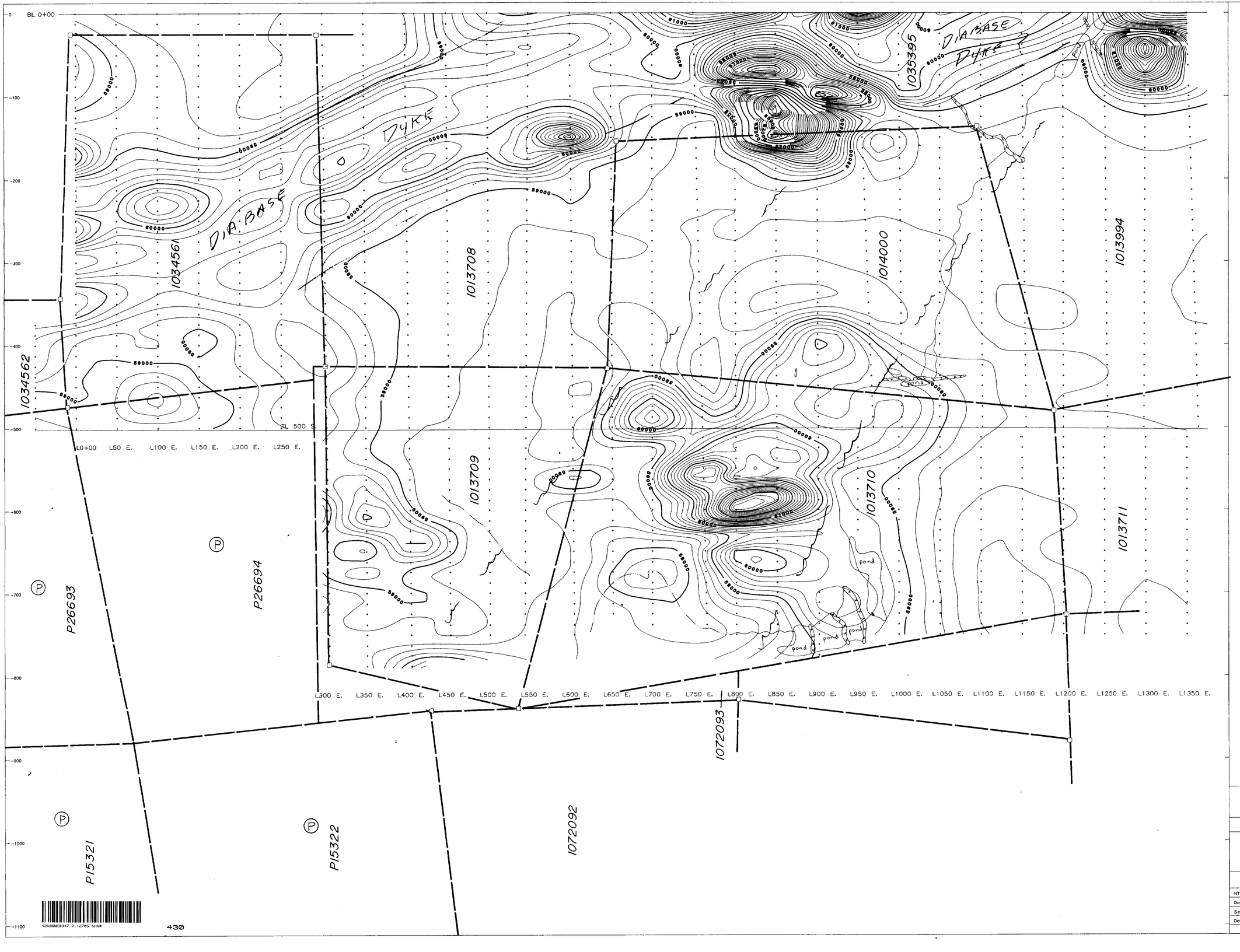
2000 Gammas/Cm – Base Value 58,000 Gammas

SOUTH WEST GRID

2.1

NTS Ref.:	Map A18 a	INSTRUMENTATION	
Data Units:	Gammas	Model :	I.G.S. System
Scale:	1:2000	Resolution :	1.0 Gammas
Date :	March 1989	Manufacturer :	Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.



TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

MAGNETIC CONTOUR MAP

Contour Interval 200 Gammas
SOUTH WEST GRID

A18b

NTS Ref.: MAP NO. A18	INSTRUMENTATION
Data Units: Gammas	Model : I.G.S. System
Scale: 1:2000	Resolution : 1.0 Gamma
Date : March 1989	Manufacturer : Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

BL 00+0

L0+00 L50 E. L100 E. L150 E. L200 E. L250 E. L300 E. L350 E. L400 E. L450 E. L500 E. L550 E. L600 E. L650 E. L700 E. L750 E. L800 E. L850 E. L900 E. L950 E. L1000 E L1050 E L1100 E L1150 E. L1200 E L1250 E L1300 E L1350 E.

0 -100 -200 -300 -400 -500 -600 -700 -800 -900 -1000 -1100

1034561

1034562

TL500 S

101 3708

101 4000

1035396

101 3994

1026692

101 3709

1013710

1013711

1072094

1072093

1072092

1072095

P 26694

P 26693

P 15321

P 15322

Pond

Pond

Pond

Pond

N

A	A14
A18	A17
	A24

× Magnetic Value

R. D. SOMERVILLE PROFESSIONAL ENGINEER PROVINCE OF ONTARIO

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

MAGNETIC GRADIENT PROFILES AND POST MAP

200 Gammas/Metre per Cm – Base Value 0.00 Gammas

SOUTH WEST GRID

NTS Ref.: Map A18 C	INSTRUMENTATION
Data Units: Gammas/Metre	Model : I.G.S. System
Scale: 1:2000	Resolution :0.1 Gammas/Metre
Date : March 1989	Manufacturer : Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

42A03NE0347 2.12795 SHAW

440

BL 00+0

L0+00 L50 E. L100 E. L150 E. L200 E. L250 E.

0
-100
-200
-300
-400
-500
-600
-700
-800
-900
-1000
-1100

1035396

Anomaly X

1013708

1034561

1014000

1013994

1034562

TL500 S

Anomaly W

1013709

L950 E. L1000 E L1050 E L1100 E L1150 E. L1200 E L1250 E L1300 E L1350 E.

1013710

1013711

Pond

26694

26693

L300 E. L350 E. L400 E. L450 E. L500 E. L550 E. L600 E. L650 E. L700 E. L750 E. L800 E. L850 E. L900 E.

1072094

1072093

1072092

1072095

15321

15322

450

N

A	A14
A18	A17
	A24

R. SOMERVILLE

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

MAGNETIC GRADIENT CONTOUR MAP

Contour Interval 100 Gammas
SOUTH WEST GRID

R. A18d

NTS Ref.: MAP NO. A18	INSTRUMENTATION
Data Units: Gammas/Metre	Model : I.G.S. System
Scale: 1:2000	Resolution :0.1 Gammas/Metre
Date : March 1989	Manufacturer : Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

	A	A14
A19	A18	A17
		A24

LEGEND :

NAA—Tilt. NAA—Quad.

+

NSS—Tilt. NSS—Quad.

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group — Shaw Township

Porcupine Mining Division

VLF E.M. POST MAP

Annapolis, Maryland (NSS) and Cutler, Maine (NAA)

SOUTH WEST GRID

2.12705

NTS Ref.:	MAP NO. A18	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M. 16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.

42AMINE0347 2.12705 SHAW

460

BL 00+0

L200 E. L250 E.

L0+00 L50 E. L100 E. L150 E.

TL500 S.

L300 E. L350 E. L400 E. L450 E. L500 E. L550 E. L600 E. L650 E. L700 E. L750 E. L800 E. L850 E. L900 E.

L950 E. L1000 E. L1050 E. L1100 E. L1150 E. L1200 E. L1250 E. L1300 E. L1350 E.

0
100
200
300
400
500
600
700
800
900
1000
1100

S1
M2
M3
M4

1034561
1034562
1013708
1013709
1013710
1013711
1014000
1015994
1072093
1072094
1072092
1072095
P26696
P15321
P15322

pond
pond
pond
pond

	A	A14
A19	A18	A17
		A24

◇ Tilt Angle Value – NAA

[T] Quadrature Value – NAA

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

VLF-EM PROFILES MAP

20 Percent/Cm – Base Value 0.0 Percent

SOUTH WEST GRID
CUTLER TRANSMITTER

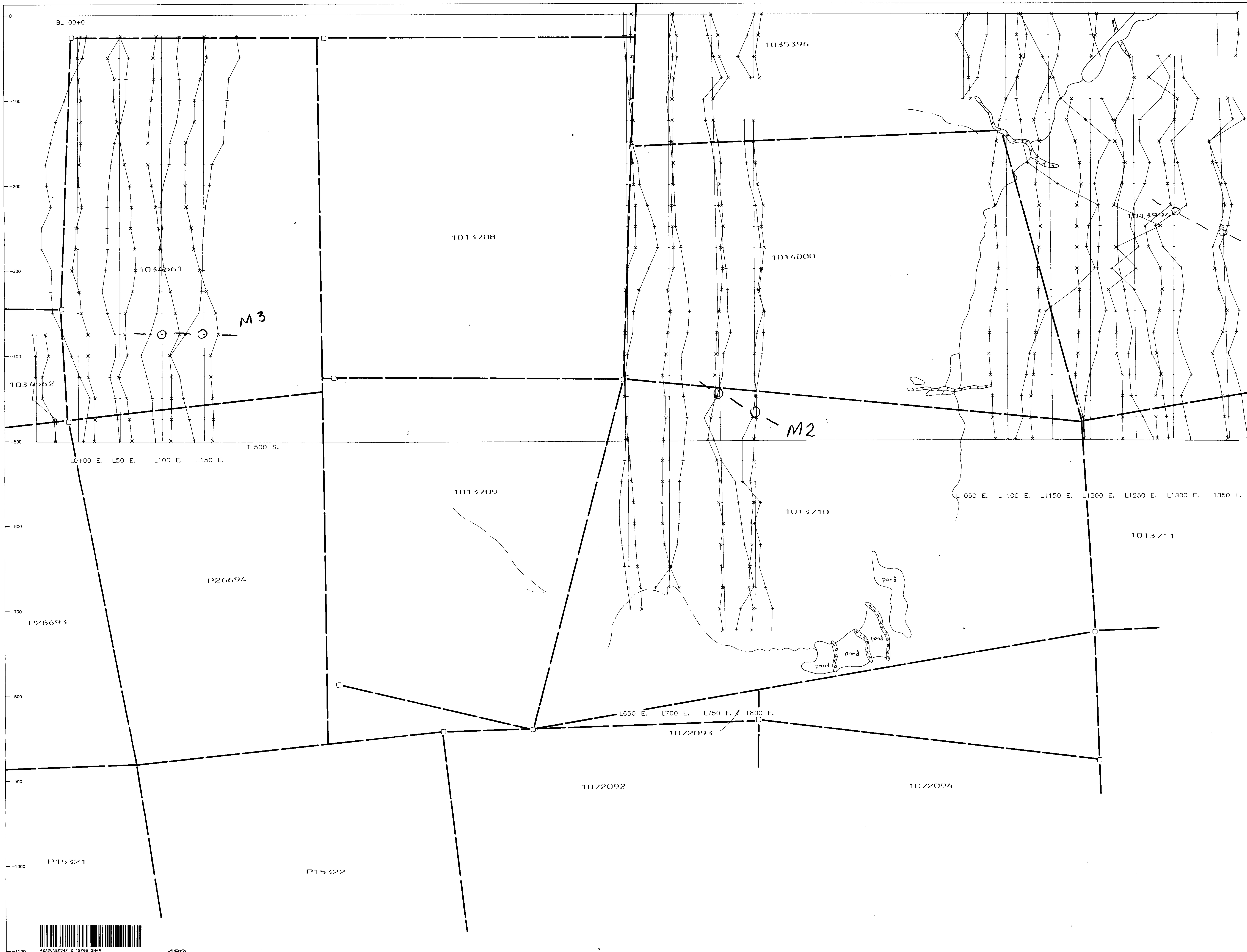
NTS Ref.:	Map A18	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M. 16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.

REGISTERED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO

42A8GNE2347 2.12725 SHAW

470



	A	A14
A19	A18	A17
		A24

+ Tilt Angle Value – NSS
× Quadrature Value – NSS

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

VLF–EM PROFILES MAP

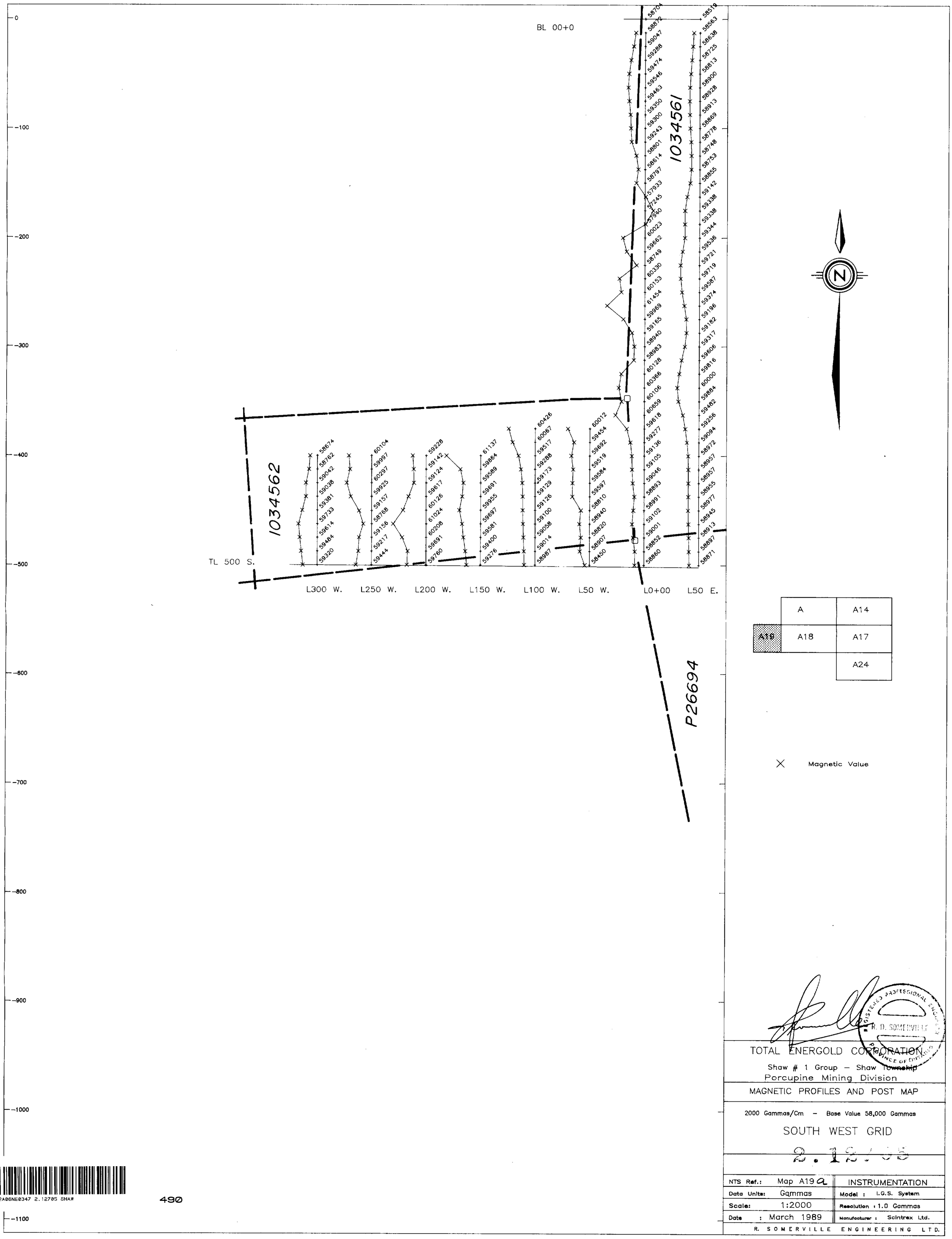
20 Percent/Cm – Base Value 0.0 Percent

SOUTH WEST GRID 2.12705

ANNAPOLIS TRANSMITTER

NTS Ref.:	Map A18 g	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M. 16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.



TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township

Porcupine Mining Division

MAGNETIC PROFILES AND POST MAP

2000 Gammas/Cm – Base Value 58,000 Gammas

SOUTH WEST GRID

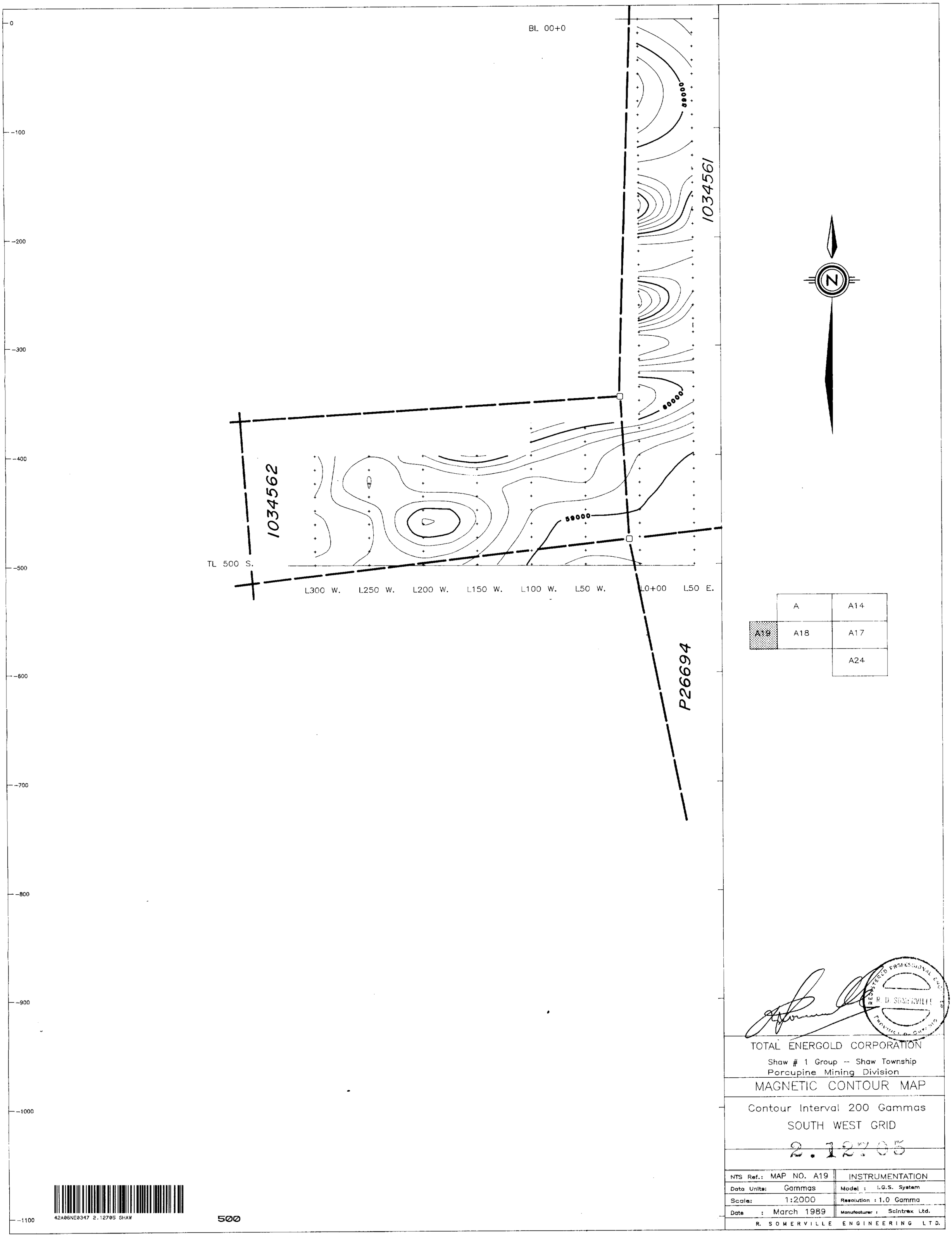
2.12705

NTS Ref.:	Map A19a	INSTRUMENTATION	
Data Units:	Gammas	Model :	I.G.S. System
Scale:	1:2000	Resolution :	1.0 Gammas
Date :	March 1989	Manufacturer :	Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

42A06NE0347 2.12705 SHAW

490



42A06NE0347 2.12705 SHAW

500

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

MAGNETIC CONTOUR MAP

Contour Interval 200 Gammas

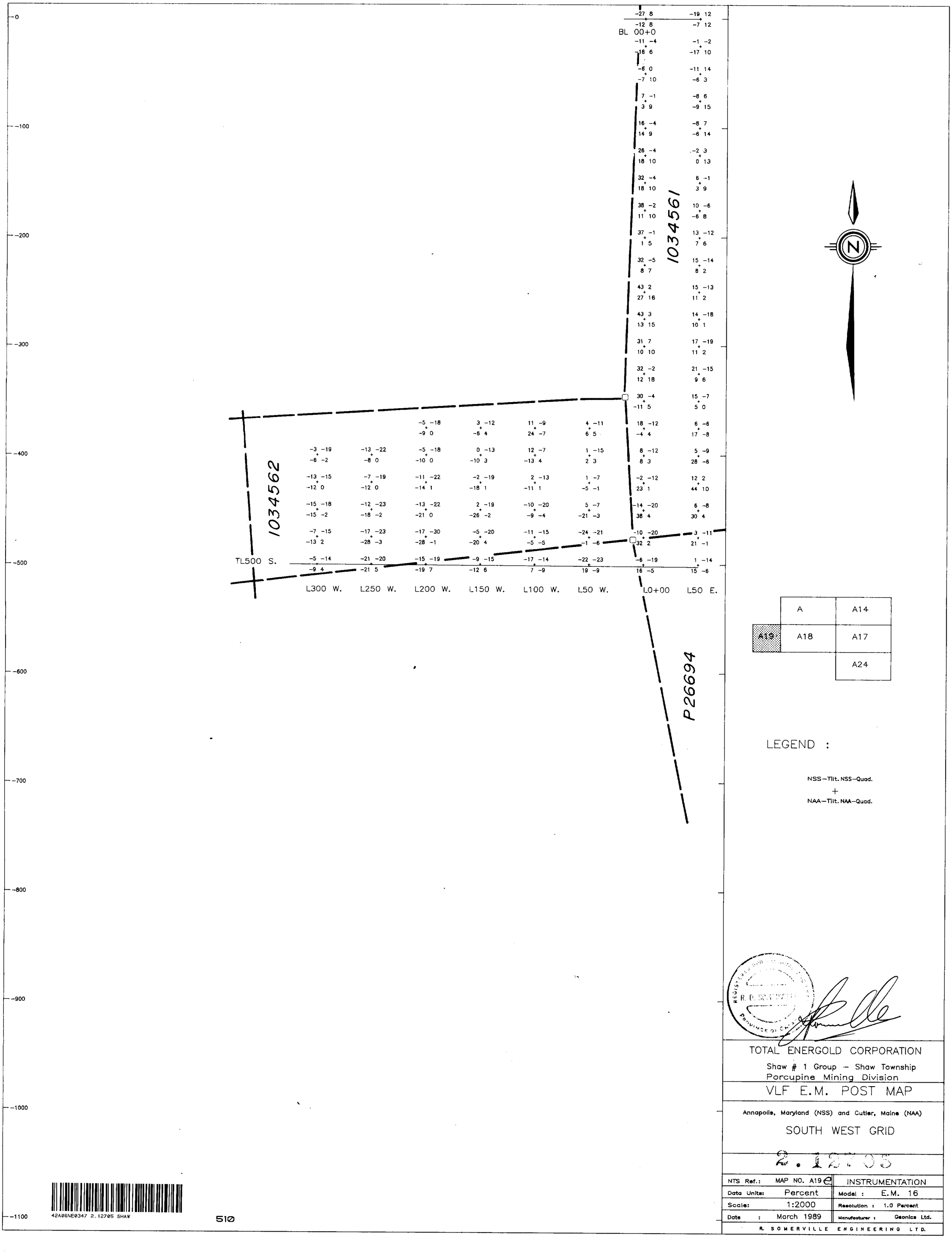
SOUTH WEST GRID

2.12705

NTS Ref.: MAP NO. A19	INSTRUMENTATION
Data Units: Gammas	Model : I.G.S. System
Scale: 1:2000	Resolution : 1.0 Gamma
Date : March 1989	Manufacturer : Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

A19B



	A	A14
A19	A18	A17
		A24

LEGEND :

NSS—Tilt. NSS—Quad.
+
NAA—Tilt. NAA—Quad.

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group — Shaw Township
Porcupine Mining Division

VLF E.M. POST MAP

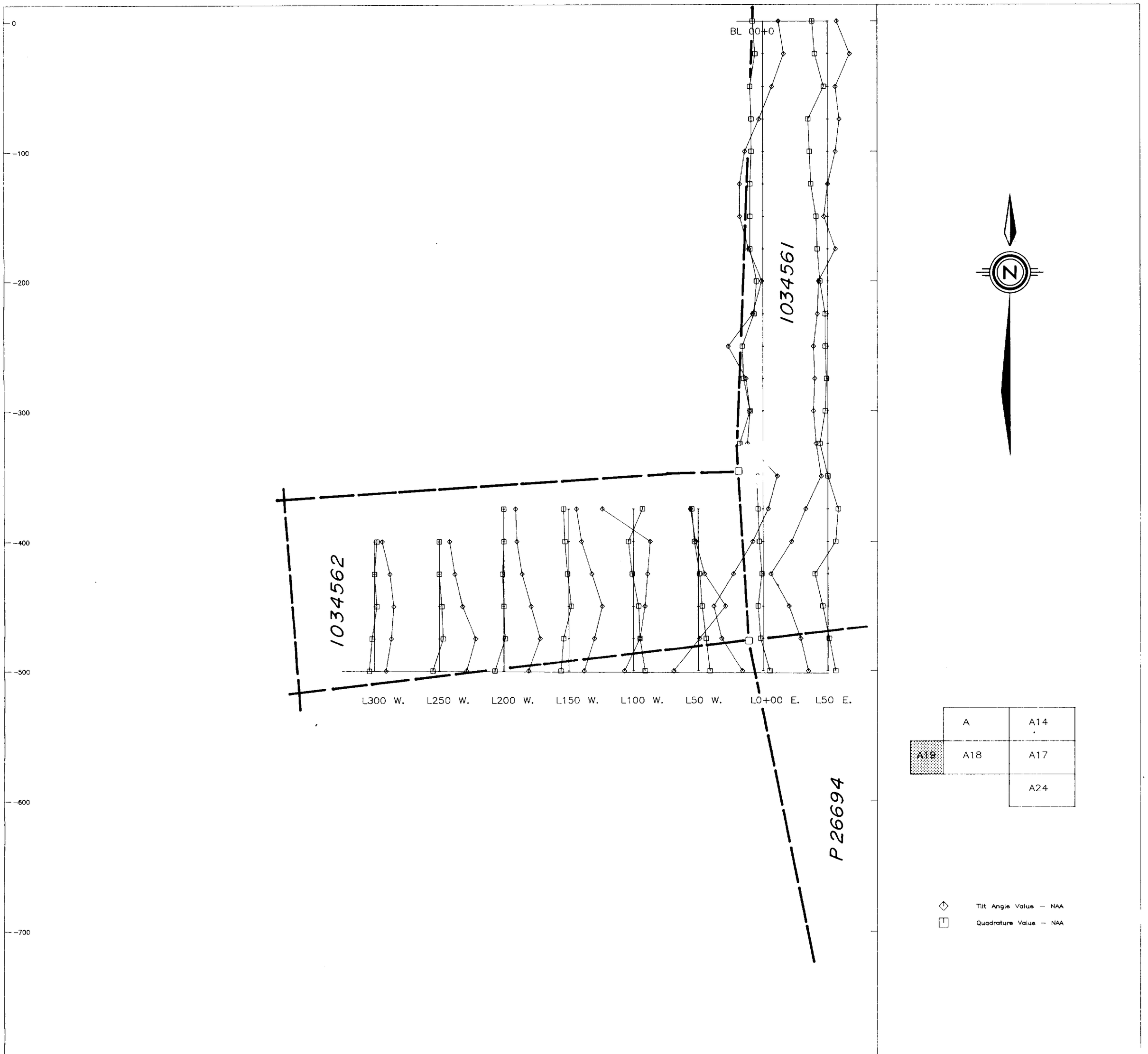
Annapolis, Maryland (NSS) and Cutler, Maine (NAA)

SOUTH WEST GRID

2.12705

NTS Ref.:	MAP NO. A19e	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M. 16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.



	A	A14
A19	A18	A17
		A24

◇ Tilt Angle Value — NAA

[T] Quadrature Value — NAA

2.12705

42A06NE0347 2.12705 SHAW

520

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group — Shaw Township
Porcupine Mining Division

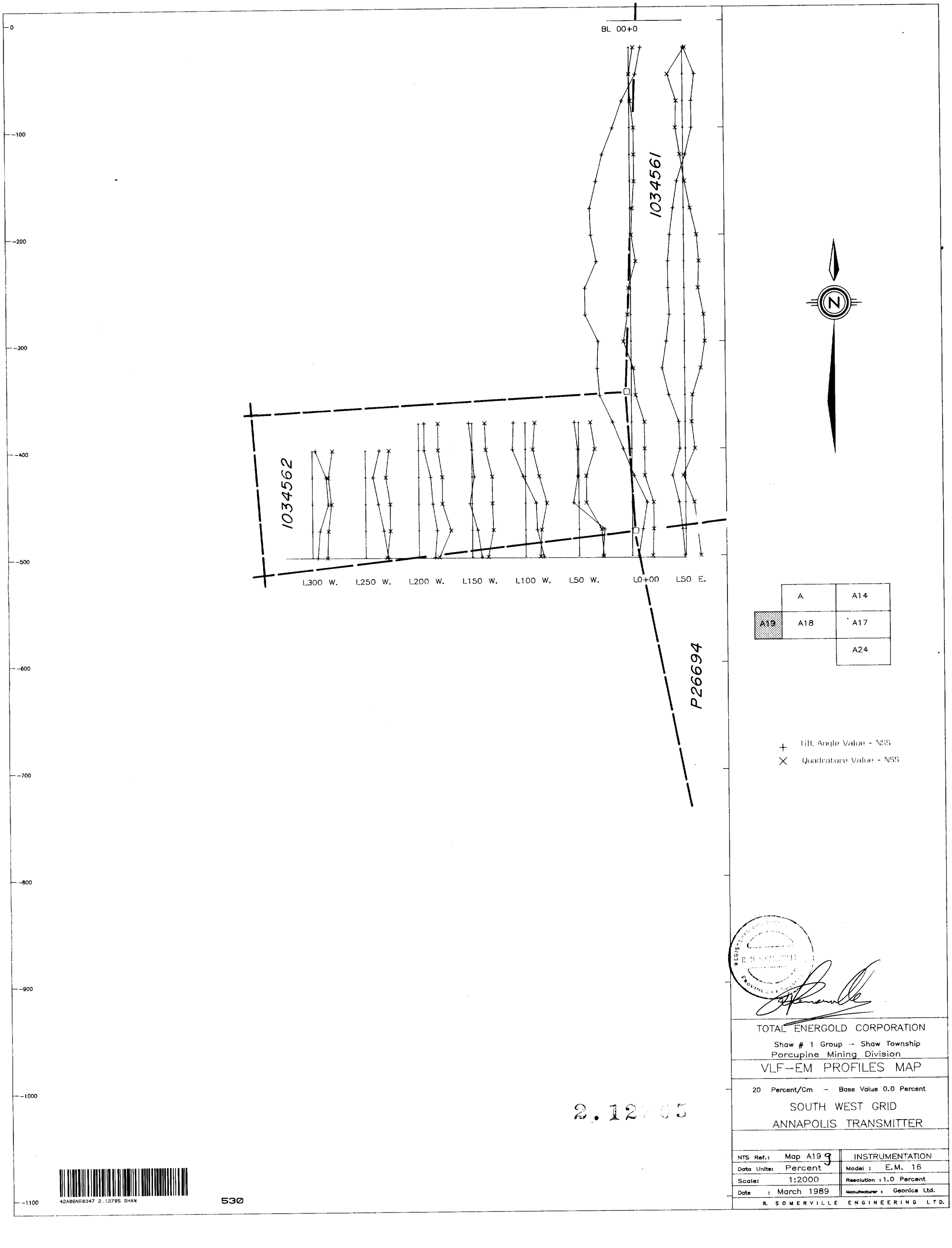
VLF—EM PROFILES MAP

20 Percent/Cm — Base Value 0.0 Percent

SOUTH WEST GRID
CUTLER TRANSMITTER

NTS Ref.:	Map A19 f	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M. 16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.



42A06NE0347 2.12705 SHAW

530

2.12705

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

VLF–EM PROFILES MAP

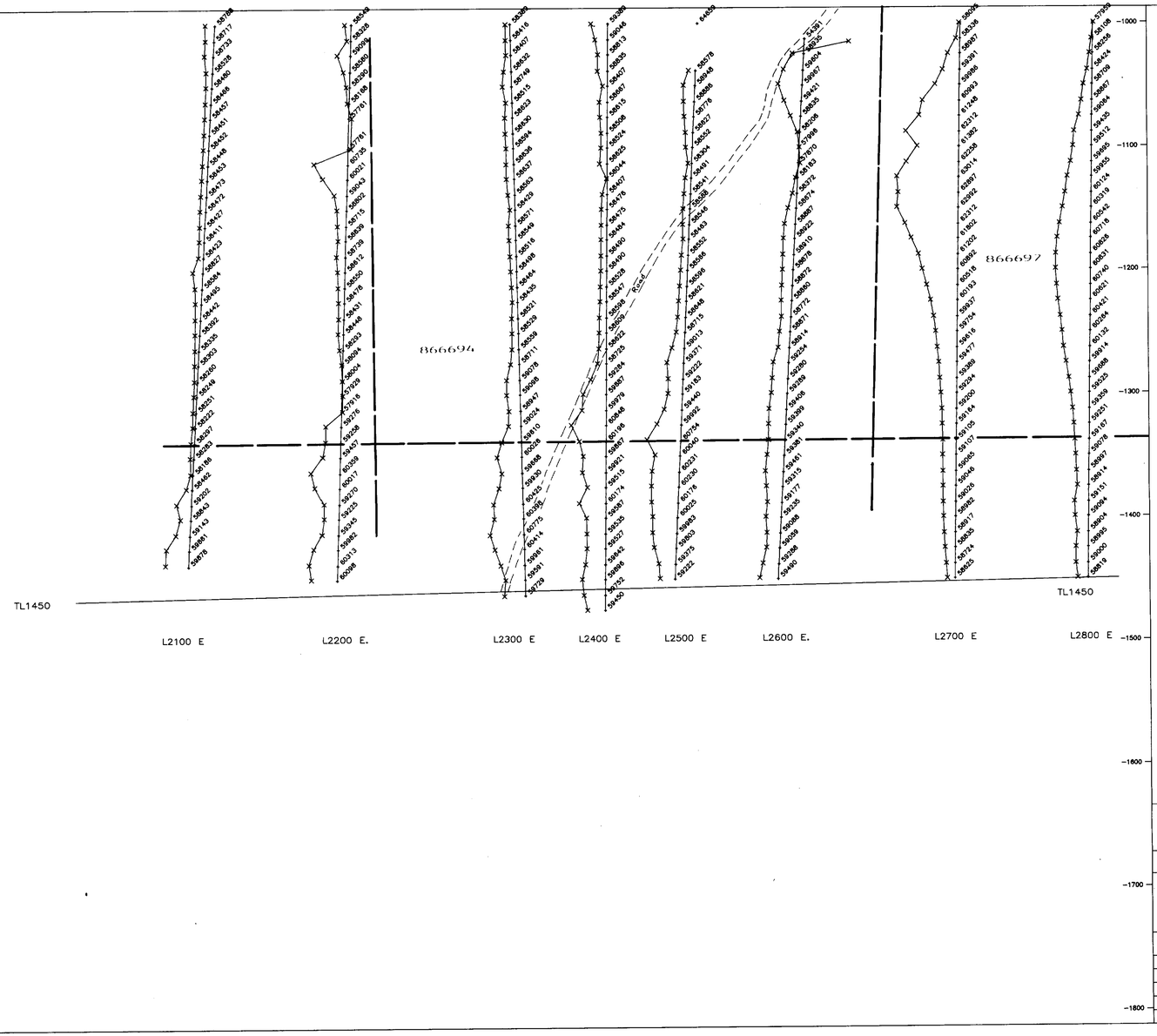
20 Percent/Cm – Base Value 0.0 Percent

SOUTH WEST GRID

ANNAPOLIS TRANSMITTER

NTS Ref.:	Map A19	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M. 16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.



A	A14
A18	A17
	A24

× Magnetic Value

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

MAGNETIC PROFILES AND POST MAP

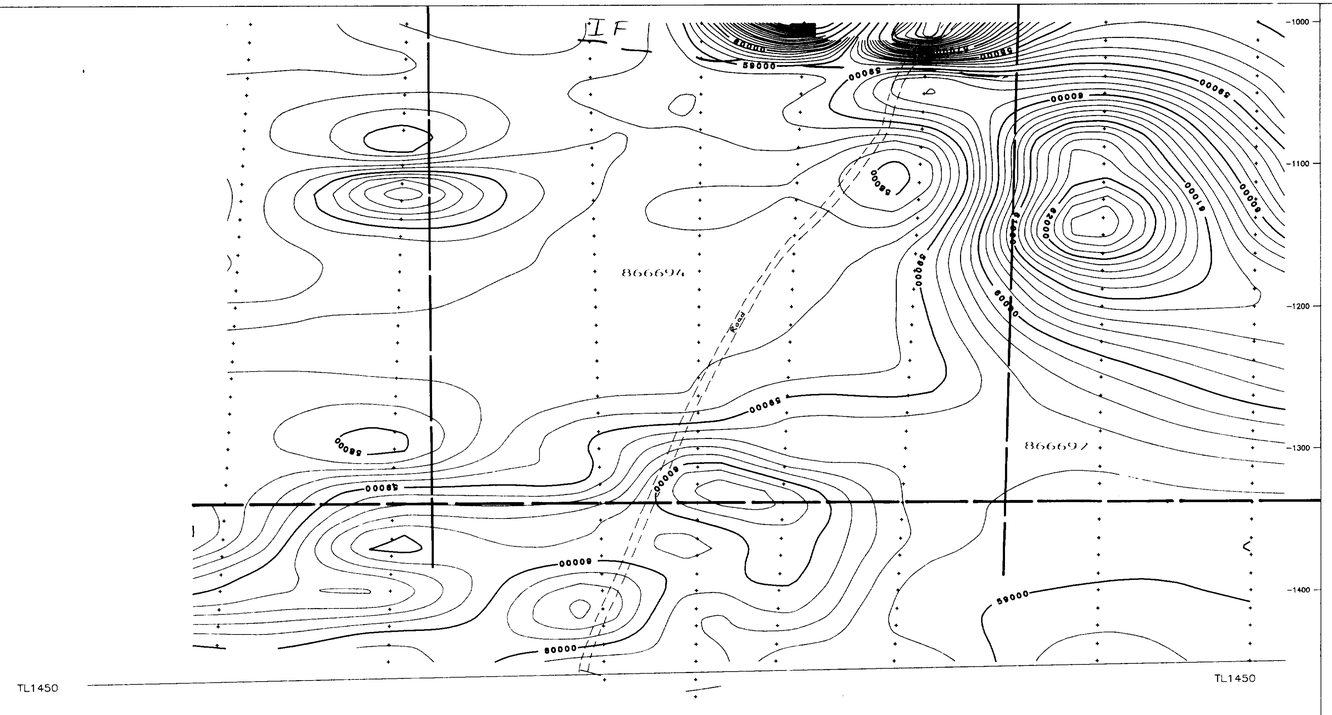
2000 Gammas/Cm – Base Value 58,000 Gammas

SOUTH WEST GRID

2.12785

NTS Ref.: Map A24 SW	INSTRUMENTATION
Data Units: Gammas	Model : I.G.S. System
Scale: 1:2000	Resolution : 1.0 Gammas
Date : March 1989	Manufacturer : Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.



A	A14
A18	A17
	A24

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

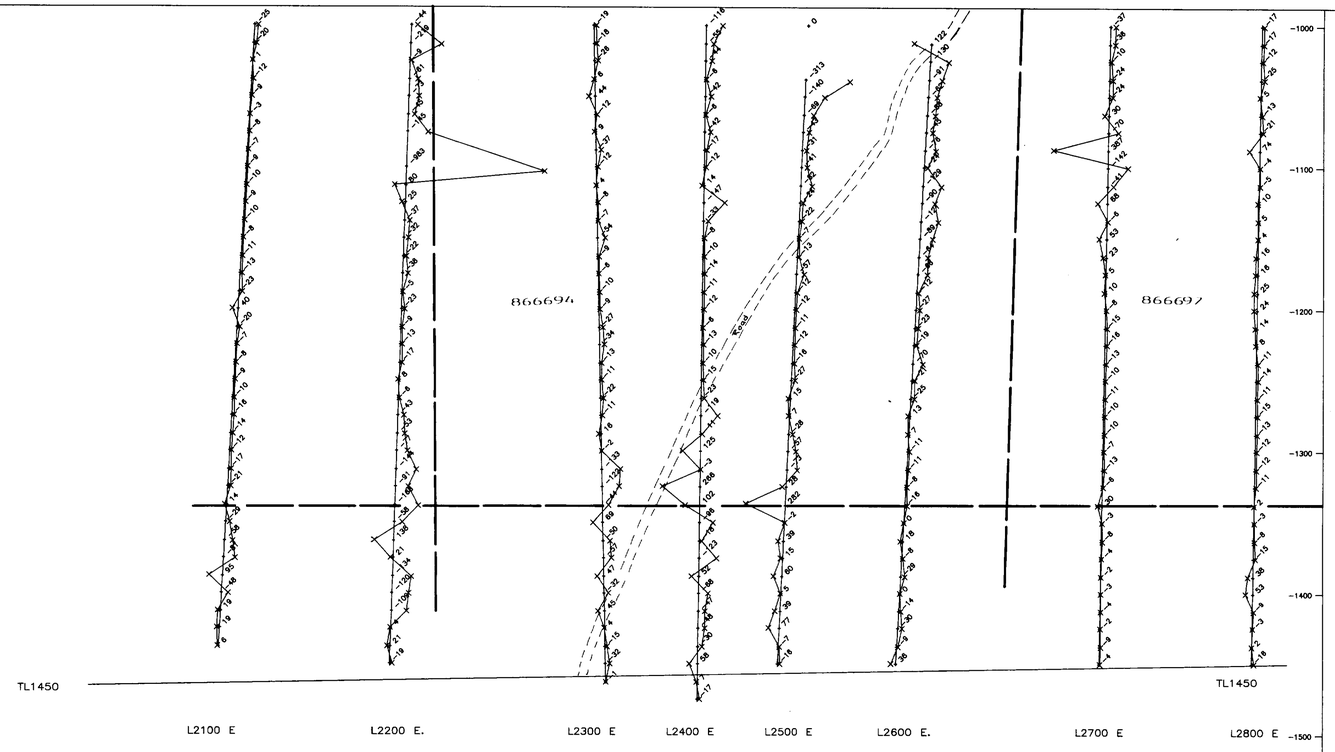
MAGNETIC CONTOUR MAP

Contour Interval 200 Gammas
SOUTH WEST GRID

A24 . 1 . 85

NTS Ref.: MAP NO. A24	INSTRUMENTATION
Data Units: Gammas	Model : I.G.S. System
Scale: 1:2000	Resolution : 1.0 Gamma
Date : March 1989	Manufacturer : Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.



A	A14
A18	A17
	A24

× Magnetic Value

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

MAGNETIC GRADIENT PROFILES AND POST MAP

200 Gammas/Metre per Cm – Base Value 0.00 Gammas/Metre

SOUTH WEST GRID

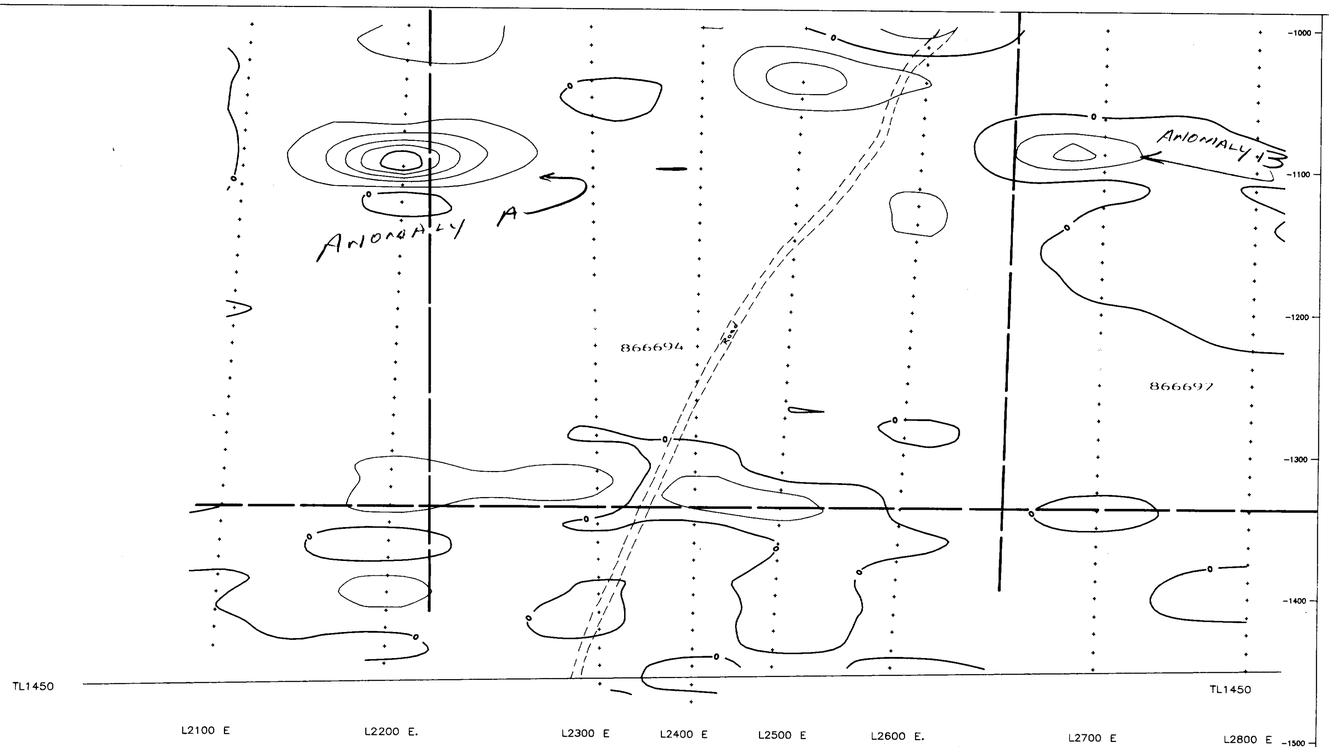
2.12785

NTS Ref.: Map A24 C	INSTRUMENTATION
Data Units: Gammas/Metre	Model : I.G.S. System
Scale: 1:2000	Resolution :0.1 Gammas/Metre
Date : March 1989	Manufacturer : Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.

42A08NE0347 2.12785 SHAN

560



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TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

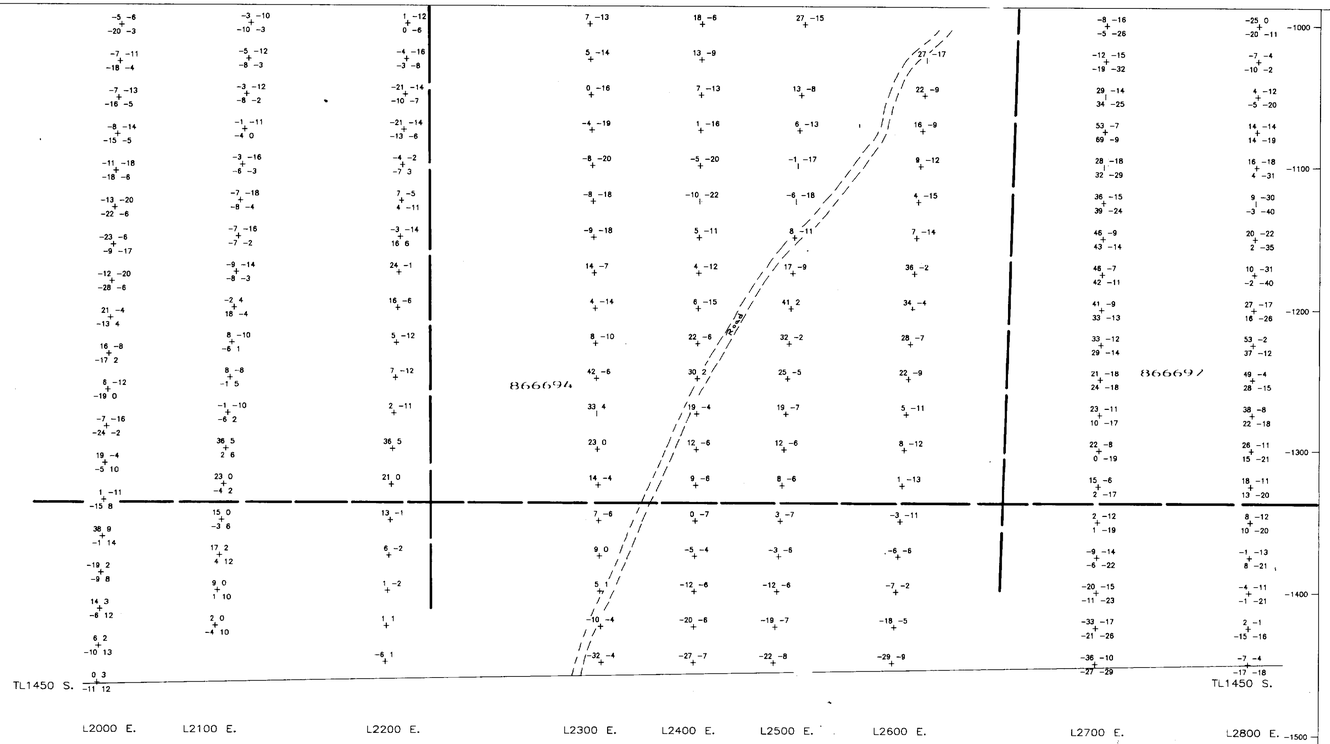
MAGNETIC GRADIENT CONTOUR MAP

Contour Interval 100 Gammas
SOUTH WEST GRID

A24d

NTS Ref.: MAP NO. A24	INSTRUMENTATION
Data Units: Gammas/Metre	Model : I.G.S. System
Scale: 1:2000	Resolution ±0.1 Gammas/Metre
Date : March 1989	Manufacturer : Scintrex Ltd.

R. SOMERVILLE ENGINEERING LTD.



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	A24

LEGEND :

NAA - Tilt NAA - Quad

+

NSS - Tilt NSS - Quad

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township

Porcupine Mining Division

VLF E.M. POST MAP

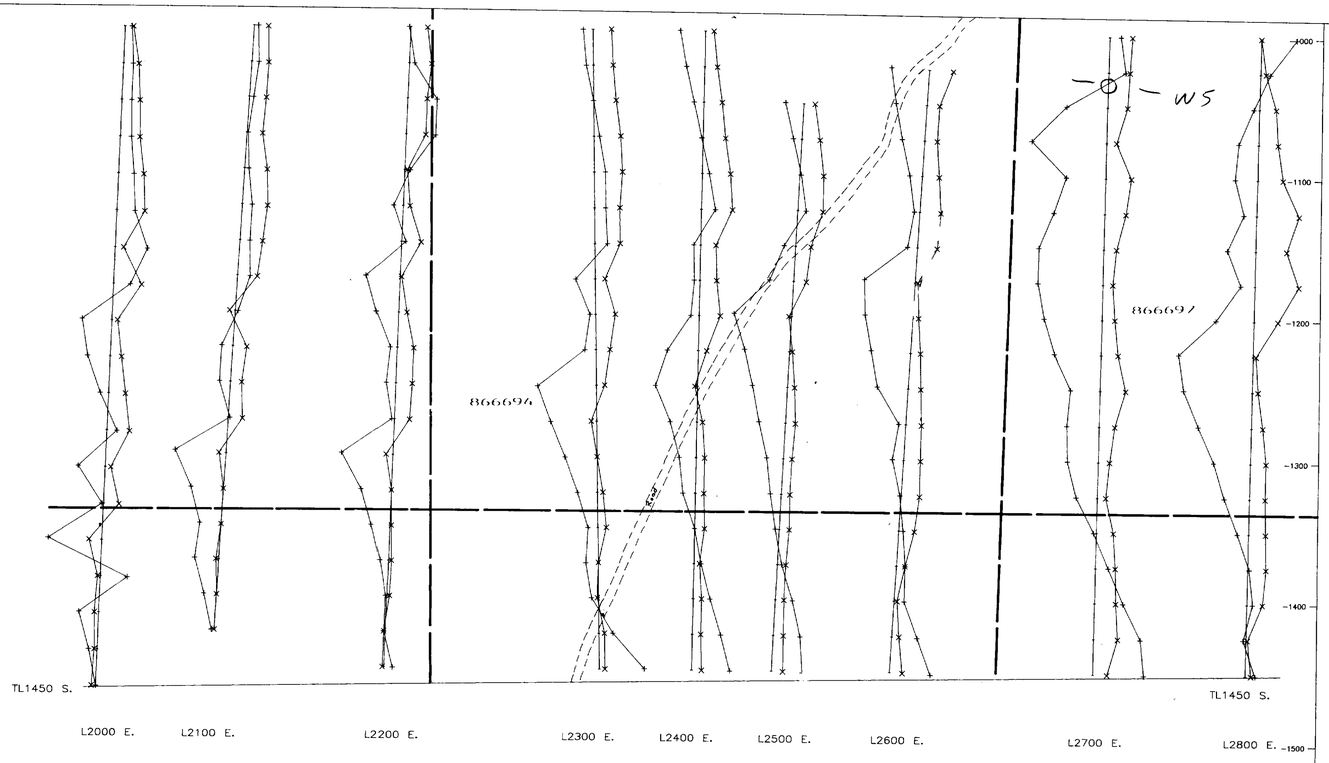
Annapolis, Maryland (NSS) and Cutler, Maine (NAA)

SOUTH WEST GRID

Line A24E

NTS Ref.:	MAP NO. A24	INSTRUMENTATION	
Data Units:	Percent	Model :	E.M. 16
Scale:	1:2000	Resolution :	1.0 Percent
Date :	March 1989	Manufacturer :	Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.



A	A14
A18	A17
	A24

\+ Tilt Angle Value – NAA

× Quadrature Value – NAA

2.12705

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

VLF–EM PROFILES MAP

20 Percent/Cm – Base Value 0.0 Gammas

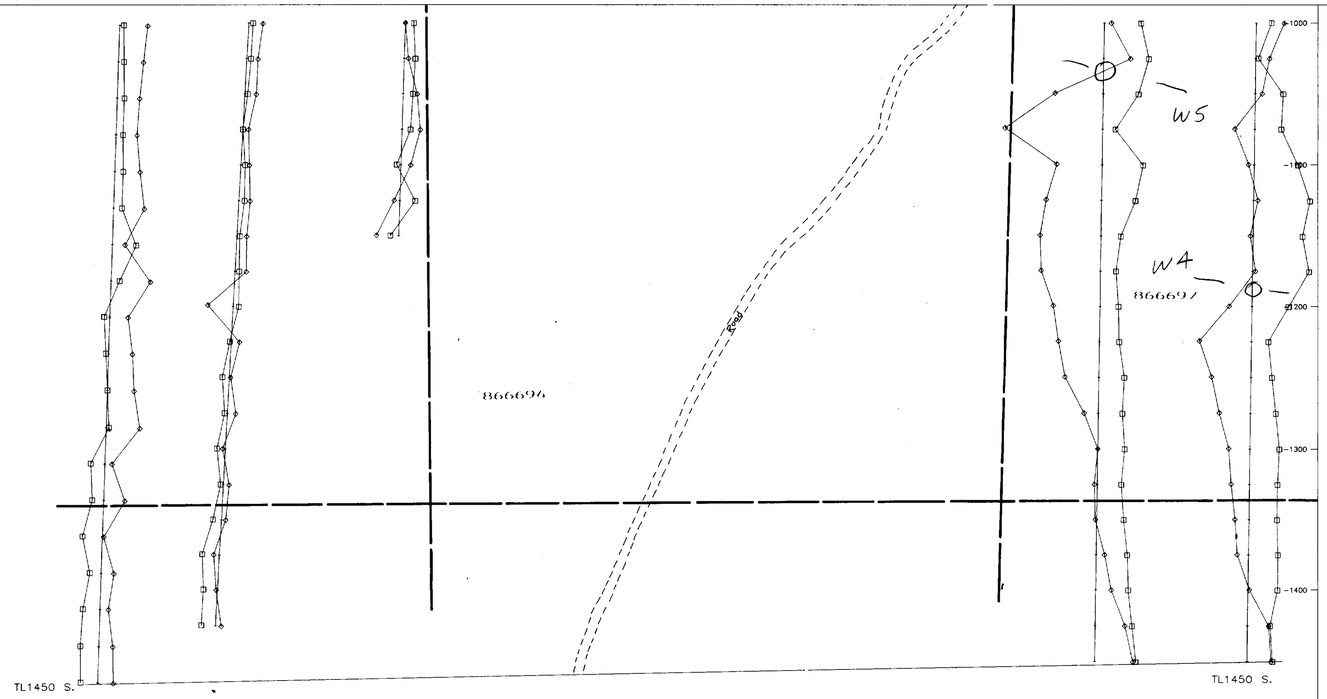
SOUTH WEST GRID

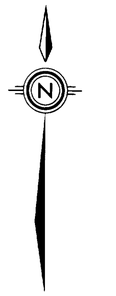
CUTLER TRANSMITTER

A24f

NTS Ref.: Map A24	INSTRUMENTATION
Data Units: Percent	Model : E.M. 16
Scale: 1:2000	Resolution : 1.0 Percent
Date : March 1989	Manufacturer : Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.





A	A14
A18	A17
	A24

◇ Tilt Angle Value – NSS

□ Quadrature Value – NSS

2.12705

TOTAL ENERGOLD CORPORATION

Shaw # 1 Group – Shaw Township
Porcupine Mining Division

VLF-EM PROFILES MAP

20 Percent/Cm – Base Value 0.0 Gammas

SOUTH WEST GRID
ANNAPOLIS TRANSMITTER

A24g

NTS Ref.: Map A24	INSTRUMENTATION
Data Units: Percent	Model : E.M. 16
Scale: 1:2000	Resolution : 1.0 Percent
Date : March 1989	Manufacturer : Geonics Ltd.

R. SOMERVILLE ENGINEERING LTD.

600