

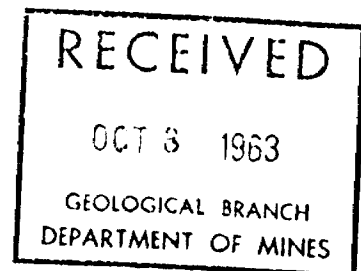


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ALGOMA ORE PROPERTIES  
EXPLORATION  
(GROUND FOLLOW UP)  
A.C.R. NORTHERN TOWNSHIPS  
1961

*File # 63-1253 (1961-63)*



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January 26, 1962

Introduction

During the summer of 1961 electromagnetic and magnetic surveys were conducted on certain anomalies in the townships of Way, Landry, Templeton, Franz and Derry.

During the original work in the northern townships (1957) prospective anomalies were chosen on the basis of:

1. High E.M. ratio
11. E.M. and magnetic relationship

During the summer of 1961 anomalies were chosen for survey on the basis of (1) and (11) and also on:

111. Magnetic configuration
- 1V. Isolation (location with respect to other anomalies)

Diamond Drilling

In the fall of 1961 two anomalies were drilled, No. 13 and No. 55. Drill logs and sections are attached to the individual reports.

Two other anomalies No. 9 and No. 52B were suggested for drilling but because of freezing-up approaching and the fact that further work in the northern townships was stopped, these were not worked on further.

Instruments Used

1. McPhar, Vertical Loop, R.E.M. 5,000 C.P.S.  
1,000 C.P.S.
2. Ronka Horizontal Loop
3. Sharpe -  $A_2$  - Magnetometer scale constant 35 gammas per scale division.

"V. R. Venn"

## Northern Townships

Anomaly # 3

Location

Northern Block  
 Sheet # 2  
 Twp. of Way

Line Cutting

Two base lines were cut on this anomaly.  
 Base Line A, 1,400' long, Azim. 326°  
 Base Line B, 800' long, Azim. 056°

Cross lines were cut at 200' intervals and at 90° to both base lines to form a box work grid of squares 200' on a side.

Surveys Completed

- (1) Magnetometer
- (11) Vertical loop (R.E.M.)
- (111) Horizontal loop (E.M.)

Magnetics

Two areas of anomalous magnetics were encountered. The first area is located 200' west of base line "A". It is about 75'-100' wide and strikes parallel to base line "A".

The second area of magnetics is located south of 4+00N on base line "B" the band is from 25'-100' wide and very irregular in shape.

The peak intensity on the first zone is 3,000 gammas and on the second zone is 2,500 gammas. Background in both areas is around 2,200 gammas.

Vertical E.M.

A series of weak cross-overs parallel to the east side of the first band.

Horizontal E.M.

No positive indications.

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Conclusions

The band of magnetics paralleling the west side of base line "A" is probably caused by a diabase dike. The cross-overs which are indicated by the vertical loop probably represent a contact relationship between the diabase and the country rock.

The irregularly shaped magnetics located in the S. E. corner of the grid are the result of disseminated magnetite in the country rock. There is no E. M. associated with it.

Recommendations

No further work warranted.



October 20, 1961

## Northern Townships

## Anomaly # 5

Location

Northern Block  
Sheet # 2  
Twp. of Way

Line Cutting

A base line 3,400 feet long was cut from the A.C.R. track at an azim. of  $090^{\circ}$ . Four cross-lines were cut 2,400' S at  $90^{\circ}$  to base line.

Surveys Completed

- (1) Magnetometer
- (11) Vertical E.M.
- (111) Horizontal E.M.

Magnetometer Survey

The magnetometer survey indicates a band of magnetics about 100' wide striking north westerly across the grid. The peak intensity is 2,700 gammas, background being about 2,000 gammas.

Electromagnetic Surveys

Neither the vertical or horizontal E.M. surveys show any conductive trends of consequence.

Geology

An outcrop of diorite is located on line 34+00E; 25+00S. The diorite is part of a dike striking at  $085^{\circ}$ .

Conclusions

1. The magnetic trend crossing the property is caused by a diorite dike.
2. The lack of positive E.M. results indicate that there are no conductive bodies of consequence associated with the magnetic trend.

Recommendations

No further work is warranted.

Northern Townships

Anomaly # 9

Location

Northern Block  
Township of Way  
Sheet # 3

Line Cutting

A base line was cut at an azimuth of  $327^{\circ}$  for a distance of 2,000'. Cross lines were cut at 200 foot intervals and at  $90^{\circ}$  to the base line.

Surveys Completed

- (1) Magnetometer
- (11) Vertical E.M.
- (111) Horizontal E.M.

Magnetometer Survey

The magnetometer survey indicates a plum of magnetics about 800' long and 650' wide lying in a N.W. - S.E. direction. Background readings are approximately 2,100 gammas, with a peak intensity over the anomaly of 3,700 gammas.

Vertical E.M.

Little to no indication of any conductive bodies. A small cross-over occurs on line 10+00N, 0+75E.

Horizontal E.M.

Two indications of conductivity were picked up on this survey. They occur on lines 12+00N and 10+00N. In both cases the results coincide with a small creek flowing through the property. Coincidentally the ground E.M. indications occur exactly where the airborne indications show it to be.

Conclusions

1. The poor E.M. results indicate that the anomaly is not caused by the massive sulphides.

2. The magnetics indicate a body containing a low percent of magnetite.

Recommendations

Since the actual cause of the anomaly has not been completely ascertained and because of the possible occurrence of secondary asbestos or disseminated sulphides, more ground work is advisable.

Northern Townships

Anomaly #13

Location

Northern Block  
Sheets 3 and 4  
Twp. of Way

Line Cutting

A base line 1,800' was cut in a north-south direction. Cross lines were cut at 200' intervals and at 90° to the base line.

Surveys Completed

- (1) Magnetometer
- (11) Vertical E.M.
- (111) Horizontal E.M.

Magnetometer Survey

The survey shows strikings 20° west of north. The band is about 200' in width. The higher intensity readings are represented by the 5,000 gamma contour line. Background is about 2,600 gammas.

Vertical E.M.

A conductor was indicated about 200 feet west of the west side of the magnetic band and striking parallel to it.

Horizontal E.M.

The results obtained with the horizontal loop are coincidental with the higher magnetics, showing them to be weakly conductive.

Geology

An outcrop of diorite, located on the tie line into the anomaly lies on strike with the magnetic trend. It contains about 5-10% magnetite.

Conclusions

The magnetic highs on the anomaly are the result of disseminated magnetite in the diorite. The vertical E.M. conductor is caused by the contact relationship between the intrusive diorite and the country rock.

On line 2+00N and 2+00W there is a relationship between all three surveys. There is a possibility that mineralization has been introduced along this contact zone.

Recommendations

The zone at 2+00N, 2+00W should be checked with a drill hole.

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Diamond Drill Hole No.	1		Property	Anomaly # 13
Location of Collar	2+00N.	1+15E	Elev.	
Azimuth at Collar	090°			
Dip At Collar	45°			
Vertical Section No.		Length	260'	Core Size Ex
Rec. in Min. Zone	Logged By	V.R.V.	Started Nov. 24/61	Finished Nov. 26/61

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Footage	Description	Sampling			Analyses
		From	To	Rec.	

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0-19	Casing				
19-26	Coarse white granite pegmatite				
26-29	Biotite schist				
29-30	Coarse white granite pegmatite				
30-47	Biotite schist				
47-55	Coarse white pegmatite				
55-105	Biotite schist				
105-108	Pegmatite (white granite)				
108-126	Medium grained, grey granite				
126-260	Gabbro intrusive				
	5% iron as magnetite				
	Dip Tests	50'	-	50°	
		250'	-	49°	

Northern Townships

Anomaly #23

Location

Northern Block  
Sheet #2  
Township of Way

Line Cutting

A Base line was cut at an azimuth of  $032^{\circ}$ . Cross section lines were cut at 200' intervals and at  $90^{\circ}$  to the base line.

Surveys

- (1) Magnetometer
- (11) Horizontal E.M.

Magnetometer Survey

The magnetometer survey shows a magnetic striking at  $N60^{\circ}W.$ , and crossing the base line at 5+50 south. The magnetic high is 3,150 gammas and background is about 2,500 gammas.

Horizontal E.M. Survey

The survey was completed with essentially poor results. The proximity of the C.N.R. tracks and telephone lines caused a great deal of interference. However, the survey line which was run along the base line and directly across the magnetic high indicated that there was no conductive body present. At this point no interference from telephone lines is indicated by the E.M. machine.

Conclusions

The magnetic trend is caused by a dike containing a small percentage of magnetite.

Recommendations

No further work is warranted.

Northern Townships

Anomaly #24

Location

Northern Block  
Sheet No. 2  
Township of Way

Line Cutting

Two base lines were cut at azimuths of  $323^{\circ}$  and  $53^{\circ}$ .  
Cross lines were cut on both base lines at 200' intervals  
to form a square grid.

Surveys Completed

- (1) Magnetometer
- (11) Vertical E.M.
- (111) Horizontal E.M.

Magnetometer Survey

The magnetometer survey revealed a circular shaped magnetic anomaly similar to that shown on the airborne magnetic sheet. The highest magnetic intensity is 2,800 gammas, background being 2,200 gammas.

Horizontal E.M.

The horizontal E.M. survey gives no indications that a conductor is associated with the magnetics.

Vertical E.M.

The Vertical E.M. verifies the results of the Horizontal E.M. No conductor of consequence was indicated.

Conclusions

The good correlation between the two E.M. surveys suggests that there are no conductors of importance associated with the magnetic anomaly. The magnetic anomaly is thought to be caused by a faulted segment of dike material containing a low percentage of magnetite.

Recommendations

No further work is warranted.

Northern Townships

Anomaly # 28

Location

Northern Block  
Sheet # 4  
Township of Way

Line Cutting

A base line was cut at an azimuth of  $0^{\circ}00'$  for a distance of 1,400'. Three cross lines were cut at 200' intervals along the base line and at  $90^{\circ}$  to it.

Surveys Completed

(1) Magnetometer

(11) Vertical E.M.

Note No Horizontal E.M. because of the number of wire fences.

Magnetometer Survey

The magnetometer survey results showed a small plum of magnetics with a peak intensity of 3,700 gammas. The background is about 2,600 gammas. The anomaly lies along the west side of the base line and strikes parallel to it.

Vertical E.M.

A weak E.M. conductor is indicated on the east side of the base line. It parallels the magnetic trend.

Conclusions

There is no correlation between the magnetic trend and the E.M. conductor. Neither of the surveys are significant.

Recommendations

No further work is warranted.

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Northern Townships

Anomaly # 30

Location

Northern Block  
Sheet # 4  
Township of Landry

Line Cutting

A base line 1,600' was cut at an azim. of  $310^{\circ}$ .  
Cross lines were cut at 400' intervals and  $90^{\circ}$   
to the base line.

Surveys Completed

- (1) Magnetometer
- (11) Horizontal E.M.

Magnetics

No magnetics of any consequence were located.

E.M.

No conductors located.

Conclusions

The survey results indicate nothing of interest on  
the anomaly.

Recommendations

No further work is warranted.



Northern Townships

Anomaly # 52B

Location

Central Block  
Sheet # 16  
Twp. of Derry

Line Cutting

Base line 4,400' long  
Azimuth 109°  
Cross lines 400' intervals

Surveys

- (1) Magnetometer
- (11) Vertical E.M. (R.E.M.)
- (111) Horizontal Loop (E.M.)

Magnetics

A plum shaped anomaly (magnetic) 1,000' long and 700' wide was outlined by the survey. The shape of the ground magnetic anomaly is the same as the airborne. The peak intensity over the anomaly on the ground survey is 6,500 gammas, background being 2,500 - 3,000 gammas. The plum of magnetics trends parallel to the base line.

Vertical E.M.

Four weak cross-overs were located on the south side of the base line, striking north westerly. The zone probably represents a contact relationship or fault plane.

Horizontal E.M.

No results of interest.

Geology

On line 32+0CE - 900' south 2 diabase dikes, striking parallel to each other are found cutting the greenstone. The greenstone, (Qtz., biot, Hbd, schist) strikes east-west and dips 85° N. The diabase dikes 50 - 60' wide strike N-W toward the magnetic zone. The diabase contains 5-10% magnetite.

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Conclusions

The E.M. surveys do not indicate any conductive body that might represent a sulphide zone. The absence of conductivity leaves the anomaly to be explained only by the presence of very disseminated sulphides (pyrrhotite) or low concentrations of magnetite.

The anomaly could be explained by the fact that the magnetics along the greenstone band have been re-enforced by the diabase, which is relatively magnetic, at the point of intersection of the diabase and the greenstone.

There is also a possibility that small deposits of asbestos have been formed at the intersection of the greenstone and the diabase.

Recommendations

Further instrument work and a diamond drill hole are warranted.

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Northern Townships

Anomaly 52C

Location

Central Block  
Sheet # 15  
Twp. of Derry

Line Cutting

Base line 4,000'  
Azimuth 307°  
Cross lines 400' intervals

Surveys

(1) Magnetometer  
(11) Horizontal E.M.

Magnetics

Small plums of magnetics with peak intensities around 6,000 gammas were located. They strike to north west.

E.M.

No results of interest

Geology

Country Rock - greenstone basic intrusive - diabase (5-10% mag.)

Conclusions

The anomalous magnetics are probably caused by the diabase, high in magnetite, re-enforcing the magnetic field at the junction of the diabase and greenstone.

Recommendations

No further work is warranted.

Northern Townships

Anomaly # 55

Location

Central Block  
Sheet #  
Twp. of Templeton

Line Cutting

A base line 2,800 feet long was cut at an azim. of  $136^{\circ}$ . Cross lines were cut at  $90^{\circ}$  to the base line and at 200' and 400' intervals.

Surveys

- (1) Magnetometer
- (11) Horizontal E.M.

Magnetics

A band of magnetics 600' long and 50' wide was located. The band strikes to the north west and has a peak intensity of 6,000 gammas. Background is approximately 2,600 gammas.

Horizontal E.M.

The horizontal loop gives a small indication of conductivity on the south side of the magnetic band.

Drilling

A diamond drill hole was put down on line 16+00E; 50'N at  $15^{\circ}$  to the north. The hole was 322' long. The rock type was a meta sediment composed of Qtz., Hbd., biotite, schist, through much of the core there occurs disseminated magnetite (5-10%).

Conclusions

The magnetic anomaly is caused by disseminated magnetite in the metasediments.

Recommendations

No further work warranted.

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Exploration Department

Diamond Drill Hole No. 1 Property Anomaly #55  
Location of Collar 1600E-50: N  
Azimuth at Collar 46°  
Dip at Collar 45°  
Vertical Section No. Length 322' Core Size Ex.  
Logged By V.R.V. Started Dec. 3/61 Finished Dec. 5/61 am  
pm

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Footage	Description	Sampling	Analyses
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From	To	Rec.
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0-12'

Casing

12-322'

Alternating bands of light gray to dark gray Qtz. biot. gneiss and Qtz. biot., Hbd., gneiss. The bands vary from a few inches to a foot in thickness. A few unaltered bands appear as a greywacke where the amphibole is plentiful the rock approaches an amphibolite schist.

Some of the sections of the core are magnetic, containing magnetite and minor sulphides.

61-78

5-10% Magnetic

110-117

5-10% Magnetic

120-128

10-15% Magnetic

147-150

5-10% Magnetic

261-268

5-10% Magnetic

Core angle varies between 50° and 55° with the axis of the core.

Dip 51° corrected 50'

Dip 51° corrected 300'

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Northern Townships

Anomalies #61 and 61A

Location

Central Block  
Sheet #14  
Twp. of Franz (south 1/2)

Line Cutting

A base line 5,200' long was cut on #61 at an azimuth of 090°. Cross lines were cut at 400' intervals. A second grid was cut on anomaly #61A by employing line 40+00E on the north side of the base line of anomaly #61. Cross lines were cut at 90° to the base line and at 400' intervals.

Surveys Completed

- (1) Magnetometer 61
- (11) Vertical E.M. 61
- (111) Horizontal E.M. 61 and 61A

Magnetometer Survey

The magnetometer survey shows a band of low magnetics trending east - west. The peak intensity over the anomaly is 3,000 gammas, background is about 2,500 gammas.

Vertical E.M. Survey

No conductors indicated.

Horizontal E.M. Survey

No conductors indicated.

Re anomaly #61A

This anomaly appears as an E.M. anomaly on the airborne survey sheets. Because of its proximity to the magnetics on anomaly #61 a grid was cut on it. Only a horizontal E.M. survey was run on the grid with negative results.

Conclusions

The magnetic highs on #61 are caused either by basic intrusives or by disseminated magnetite in the country rock.

Recommendations

No further work is warranted.



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A STUDY OF AIRBORNE GEOPHYSICAL DATA  
and  
SUBSEQUENT GROUND INVESTIGATIONS  
NINE A.C.R. TOWNSHIPS  
SAULT STE. MARIE MINING DIVISION  
ONTARIO

INTRODUCTION

At the request of Mr. Donald E. Smith of Franc. R. Joubin & associate, Ltd., the writer has examined the results of airborne and ground geophysical investigations, and of some geologic mapping and drilling which were carried out on the following nine townships in the Sault Ste. Marie Mining Division, Ontario: Way, Landry, Templeton, Alderson, Franz (S 1/2), Derry, Martin, Mildred and Glasgow (W 1/2). The townships lie close to the track of the Algoma Central and Hudson Bay Railway.

The airborne surveys consisted of total intensity aeromagnetic and dual frequency out-of-phase electromagnetic measurements, made along lines which were nominally 1/8 mile apart, oriented due north-south, at a mean terrain clearance of 500'. These surveys were flown and compiled over the period of October, 1956 - May, 1957.

An initial stage of ground investigation was carried out in 1957 and a second stage in 1961, entailing geological mapping, magnetometer and electromagnetic surveys and four diamond drill holes. Ground recovery of airborne conductors proved to be very poor, with less than 25% of the targets investigated being confirmed on the ground.

GENERAL COMMENTS

Airborne Surveys

The electromagnetic system employed on these surveys measured relative phase angles at 400 c.p.s. and 2300 c.p.s. Theory predicts, and experience has shown, that this type of system

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emphasizes a middle range of conductors, suppressing both very strong and very weak conductors. Highly conducting, massive sulphide bodies have been known to give rather insignificant response, whereas clays and lake-bed sediments in Canada often give very large responses. Some degree of discrimination is provided by comparing the ratio of the low frequency to high frequency phase angles. For homogeneous bodies, a ratio of 1 or greater implies high conductivity, whereas a ratio of less than 0.5 generally implies low conductivity. Sometimes, however, a large massive sulphide body has a disseminated halo around it, and it is the latter which primarily gives rise to the observed phase angles, resulting in a low ratio.

Other criteria by which one may select conductors of possible economic interest include

- (a) Shape of anomaly - sulphide bodies of interest are usually tabular and less than one mile in strike length. Thus the resultant conductive indications should be rather sharply peaked and not too long.
- (b) Magnetic correlation - at least 50% of all base metal sulphide ore bodies in the Precambrian Shield have an appreciable magnetic expression due to their pyrrhotite or magnetite content. Thus direct magnetic correlation is encouraging, although it is neither necessary nor really sufficient for a conductor to be of base metal interest. Graphitic shear zones often carry some associated pyrrhotite.

The above remarks are intended to emphasize the limitations of the present type of airborne electromagnetic survey and of the interpretation of results therefrom. The proof lies in the record of A.O.P. ground investigations based on these airborne data: of about 40 "conductors" investigated only 10 were really confirmed on the ground.

Four categories of conductive indication may be observed on these sheets:

- (a) True bed-rock conduction - relatively rare
- (b) Overburden conduction - the bulk of the indications
- (c) Power line effects - particularly in Way Twp.



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and (d) Instrumental malfunctioning - certain lines in Way and Martin Twp., for example, show conduction along their entire length, often with good ratios, whereas the adjacent lines show nothing. Whereas some of this may be due to differences in terrain clearance, others can only be caused by equipment noises.

It is unfortunate that the A.O.P. ground investigators did not discriminate as much as they could have done between the four categories of conductors, thus giving rise to the very poor recovery ratio.

Judging by the trends indicated by the aeromagnetic maps, the regional geologic strike is often within a few degrees of the flight line direction. The detectability of this system for a conductor striking in such a direction is poor.

On several counts, therefore, one can conclude that the present airborne electromagnetic survey has not provided a complete and adequate investigation of these areas for bed-rock conductors.

Ground Surveys

The bulk of the ground electromagnetic surveys have been carried out using a portable vertical loop system with a parallel line reconnaissance technique. No indication of transmitter location is given and no detail (fixed transmitter set-ups) surveys have been done to pin down conductor positions with precision. This has resulted in some waste of drilling footage.

On the few conductors which have been confirmed by the ground surveys, the tendency has been to do much too much work. For example, in Templeton Twp. one conductor was followed for nine miles on the ground, whereas this continuity was already apparent from the A.E.M. results, and thereafter only one hole was drilled on it!

COMMENTS BY TOWNSHIP

Way Twp.

The airborne electromagnetic (A.E.M.) results are characterized by considerable overburden effects, tempered by changes in aircraft elevation from line to line. There are also conductive effects from power lines along farm roads.

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The A.O.P. ground investigation included seven "conductors", none of which was really confirmed on the ground. One hole was drilled on "conductor" #13, and, of course, revealed no cause for the very weak tilt angles observed.

Three new A.E.M. conductors have been designated A, B and C by the writer. These are selected as being possibly due to bed-rock conduction and each has a ratio of 0.7 or greater.

Conductor A strikes generally E-W, parallel to a road, and crosses the A.C.R. track just west of the town of Hearst. There is a strong probability that it is due to a power line, but some contorted magnetic activity in the area suggests that bed-rock conduction is possible. In view of the ready access, it is recommended that the site should be examined and, if a correlating power line does not exist, ground electromagnetic and magnetometer surveys should be carried out.

Conductor B, in the south central portion of the township, might have been dismissed as an overburden effect except that it nicely correlates a 700-800 gammas ridge. The possibility here is for a basic intrusive body carrying asbestos or nickel. Ground follow-up is recommended on line 519.

Conductor C, lies at a bend of the A.C.R. track in the southeast quarter of the township, also on a road. Whereas power line and other man-made conductors are distinct possibilities here, the same road and track do not elsewhere give rise to such effects. Once again, in view of the ease of access, the writer suggests that this target should be examined on the ground.

Landry Twp.

There appears to be little of interest in the A.E.M. results. A fair amount of overburden conduction is in evidence, with the low frequency phase angle of up to  $0.6^{\circ}$  but with low ratios.

The A.O.P. investigated one area (#30) which is primarily a magnetic anomaly with no conduction, and no ground conductor was found.

Templeton Twp.

Two major east-west striking conductors lie in the middle of the sheet. The north zone is four miles long and is still open

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to the east. The south zone is at least nine miles long and is open to the east and possibly to the west also. It splits into two conductors for about four miles of its length. The strongest phase angles are of the order of  $0.8^{\circ}$  and ratios are up to 0.8.

There is intermittent, weak magnetic correlation, of the order of 20-40 gammas on both conductors. A major cross-cutting shear or fault zone is indicated by the aeromagnetics in this vicinity.

A considerable amount of ground work has been carried out on these two conductors by A.O.P. In particular, the south zone has been covered by ground E.M., magnetometer and geologic surveys over its entire length: on lines 400' apart. Moderate-to-strong multiple conductors have been confirmed on the ground, with intermittent direct magnetic correlation: of up to several thousands of gammas.

According to the outcrop picture, the conduction generally occurs in metasediments, including schists of various types. A single drill hole intersected graphitic schist with some pyrite and pyrrhotite. Assays were negative.

In the 1961 program, anomaly #55 was investigated on the ground by A.O.P. As it was an aeromagnetic anomaly only, without any A.E.M. indication, it is not surprising that no significant conduction was encountered on the ground. It was, however, drilled by one hole, to reveal numerous sections of 5% - 10% magnetite in quartz biotite gneiss, but with only minor sulphides.

In conclusion, Templeton Twp. has been the scene of considerable and largely unnecessary ground investigations. The two major conducting zones are very likely due to cross-cutting shear structures containing graphite with some pyrite and pyrrhotite.

No other A.E.M. indications on the sheet are of sufficient promise for bed-rock conduction to warrant ground investigation.

Alderson Twp.

A long, irregular conducting zone crosses the northeast portion of the township. Phase angles of up to  $0.6^{\circ}$  and ratios of up to 1.5 suggest that bed-rock conduction exists. A second, shorter

zone lies to the south near the east boundary of the sheet. There appears to be no aeromagnetic correlation on these conductors. They are probably shear zones containing graphite, with at most minor sulphides. Although some geological mapping has been done in the central region of the main conductor, there is no evidence of any ground geophysical investigation.

As the south zone is of reasonable length, it may be worth a ground check at C, just west of Mawgi Lake, or, if more convenient, at C, just east of this lake and close to the A.C.R. track.

Two additional conductors exhibiting moderate electrical amplitude, good ratios and apparent direct magnetic correlation, have been indicated by the letters A and B. In neither case is the conductor strike well established, but it is possibly NW for A and EW for B. The former is really incompletely defined by the present survey as it lies on the south boundary. It is recommended that A and B should be subjected to ground investigations as well.

Franz Twp. (S 1/2)

A group of conductors exist in the northeast corner of the sheet, which have good ratios and reasonably sharply peaked curve forms. These have already been followed up on the ground as A.O.P. conductors 31A, B, C, and 32A. Good conductors with intermittent magnetic correlation were found on the ground. Conductor 31C was drilled to reveal graphite and pyrrhotite in biotite hornblende schist. Presumably the remainder are similar in origin.

One A.E.M. conductor remains of possible bed-rock origin. It is designated as A and lies in the NW corner of the sheet, within 1/4 mile of the Canadian National Railway track. It strikes northwest and coincides with the peak of a 200 gamma closure. The ratios are rather poor, but the magnetic correlation compensates, in the writer's opinion. Despite the fact that this may be an accidental coincidence, the writer recommends ground follow-up on this conductor.

Derry Twp.

With the exception of one line, which is probably equipment noise, the observed conductive effects have low ratios and occur largely in lakes. A total of eleven of these poor

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indications have been investigated to date, and only one (#3) confirms a minor conducting zone. On this conductor there may be a coincidence with a 500 gammas magnetic anomaly.

It is recommended that conductor #3 should be rechecked at a convenient time under winter conditions, as it is under Lake Kabinakagami, to determine the extent of the conductor and confirm the magnetic correlation.

Two rather weak A.E.M. conductors remain, which, together, warrant ground investigation as they are only  $3/4$  mile apart. They are designated A and B and lie in the northwest quarter of the sheet, west of the Kabinakagami River. The strikes are WNW. Conductor A lies on or near the top of a 600 gammas ridge, which is possibly a basic intrusive. Asbestos and nickel possibilities would exist. It should be checked near lines 239-241. Conductor B has possibly weak negative magnetic correlation, and should be checked near lines 243-245.

Martin Twp.

Aside from abnormal effects on two lines, which the writer would attribute to instrumental noise, the indicated conductors are of low amplitude and ratio.

Eight conductors were investigated on the ground by A.O.P., all of which fall in the above category of probable instrumental noise. No conductors were confirmed on the ground.

There appears to be no further interest in these data.

Mildred Twp.

Only very minor A.E.M. conduction occurs, none of which exhibits significant magnetic correlation and most of which lies in lakes.

Glasgow Twp. (W 1/2)

Once again, the observed conduction is of low order and mainly in lakes. No probable bed-rock conductor indications are to be seen.

COPY

8.

GENERAL GROUND FOLLOW-UP PROCEDURE

For the ten A.E.M. conductors on which further work has been recommended, the following ground follow-up procedure is suggested:

1. Cut or blaze two lines, 400' apart, for about 1000' long, across the probable conductor strike.
2. Traverse these lines with the parallel line technique, vertical loop E.M. system to locate the conductor, if present, on each line.
3. Cut a base line along the conductor for about 1600' total, and cut five cross lines, each 1000' long at 400' intervals, centred on the base line.
4. Carry out reconnaissance and detail E.M. surveys and magnetometer surveys on these lines.
5. Map the grid area geologically, paying special attention to the vicinity of the conductor trace, as determined by 4.

It is not generally necessary to extend the ground grid beyond what is indicated above, even if the conductors extend, on strike, beyond the grid limits. All that is required at this stage is a selective sampling of the A.E.M. conductor in a representative section. Extension would come only after drilling or trenching, etc., had established special interest in the conductor.

Respectfully submitted,

"Harold O. Seigel"

Harold O. Seigel, Ph.D., P.Eng.

Toronto, Ontario  
March 23rd, 1963.

## S U M M A R Y

A study of the results of the airborne geophysical surveys and subsequent ground investigations in these nine townships has revealed a total of ten indications which are possibly due to bed-rock conduction and which may be of base metal or asbestos interest. One of these has been partially investigated by A.O.P. and lies on a lake. The remainder are on land and it is recommended that they should be subjected to ground geophysical and geological investigation.

The A.O.P. ground program in this area has had a singularly poor record of conductor recovery, some of which is fundamental to the nature of the basic A.E.M. data but possibly more is attributable to improper selection of targets.

THE ALGOMA CENTRAL AND HUDSON BAY RAILWAY COMPANY

**RECEIVED**  
 OCT 8 1963  
 GEOLOGICAL BRANCH  
 DEPARTMENT OF MINES

L. C. WAUGH  
 PRESIDENT AND GENERAL MANAGER

SAULT STE MARIE, ONT  
 October 1, 1963

*[Handwritten signature]*

Mr. D.P. Douglass, Esq.,  
 Deputy Minister of Mines,  
 Parliament Buildings,  
 Toronto 2, Ontario.

Dear Mr. Douglass:

*See page 4*

RE: Surrender of mining rights by  
Algoma Central Railway on lands  
north of C.P.R.

As called for in letter agreement dated November 28th, 1960, and signed by the Honorable J.A. Maloney, Minister, we are releasing our mining rights covered in that agreement to the Province of Ontario as of October the first, 1963.

Under Paragraph (7) of the agreement we are required to submit any additional information obtained prior to October 1st, 1963, with respect to these lands. The information is attached to this letter in duplicate. Details of the material are as follows:

Township	No. of Copies	1961 Data by Algoma One Properties		Ground Follow Up			
		Anomaly Number	Description				
Way	✓ 2	3	Ground Magnetometer & Horizontal loop E.M. Survey				
	✓ 2	3	" " " Vertical	"	"	"	"
	✓ 2	28	" " " "	"	"	"	"
	✓ 2	24	" " " "	"	"	"	"
	✓ 2	24	" " Horizontal	"	"	"	"
	✓ 2	24	" " " "	"	"	"	"



D.P. Douglass, Esq.,

1961 Data by Algoma Ore Properties - Ground FollowUp

<u>Township</u>	<u>No. of Copies</u>	<u>Anomaly Number</u>	<u>Description</u>					
Way	✓2	24	Ground		vertical	loop	E.M.	Survey
	✓2	24	"		"	"	"	"
	✓2	23	"	Magnetometer	& horizontal	"	"	"
	✓2	13	"	"	" vertical	"	"	"
	✓2	13	"	"	" horizontal	"	"	"
	✓2	5	"	"	" "	"	"	"
	✓2	5	"	"	" vertical	"	"	"
	✓2	9	"	"	" horizontal	"	"	"
	✓2	9	"	"	" vertical	"	"	"
Landry	✓2	30	"	"	" horizontal	"	"	"
Templeton	✓2	55	"	"	" "	"	"	"
Derry	✓2	52 C	"	"	" "	"	"	"
	✓2	52 B	"	"	" "	"	"	"
	✓2	52 B	"	"	" vertical	"	"	"
Franz	✓2	61 A	"	"	" horizontal	"	"	"
	✓2	61	"	"	" "	"	"	"
	✓2	61	"	"	" vertical	"	"	"

Reports by ✓2 V.R. Venn Covering above mentioned anomalies

1963 - Franc. R. Joubin & Associates

✓ Reports by Dr. H.O. Seigel 2 copies Study of airborne and ground geophysical data on A.C.R. Northern townships.

<u>Township</u>	<u>No. of Copies</u>	<u>Anomaly</u>	<u>Description</u>
✓ Irving	2	Akron	Geophysical & Geological reports by Dr. Seigel & H. Lien Location, Geological, magnetometer and E.M. Sketches
✓ Alderson	2	Area B	(no geological sketch)
✓ Derry	2	Areas A & B	"
✓ Franz	2	Area A	"
✓ Alderson	2	Area A	"
	2	Area C	"
	2	Area C	"
✓ Way	2	Area A	"
	2	Area C	"
	2	Area B	Report by H.O. Lien only

The aerial geophysical maps, on which are located the various anomaly numbers mentioned in the above list and in the reports, were included with other geophysical data sent to the Ontario Department of Mines by the Railway a couple of years ago. Consequently, additional prints of the aerial maps are not included in the enclosed material.

For the actual transfer of the mining rights including the descriptions, would you contact the Company General Counsel & Secretary, Mr. D.A. Berliss at Suite 914, 111 Richmond Street, West, Toronto. It is our hope that since the mining rights are being surrendered in their entirety blanket transfers for each township will be adequate. In so far as our right-of-way through the lands in question, it was resurveyed a few years ago and this survey is registered with the Master of Titles at Sault Ste. Marie and Cochrane as applicable.

Yours very truly,



cc: Mr. D.A. Berliss

RRI:b1

Enc:

COPY

FRANC. R. JOUBIN & ASSOCIATES,

REPORT ON ANOMALY A

WAY TWP.

District of Algoma

INTRODUCTION

The source for Anomaly A in Way Twp. is an airborne, combined magnetometer and electromagnetic survey carried out by A.O.P. recently. A possible conductor was indicated by the survey, at Wyborn St., on the A.C.R. It was recommended by Dr. Harold O. Seigel that the anomaly be investigated on the ground.

THE SURVEY

Two lines 750 feet long and 400 feet apart were run with E.M. and magnetometer. The work was hampered by the railway tracks and several high tension transmission lines which cross the area.

OVEREUREDEN

The area is flat and open farming country (clay) and no outcrops were seen.

"Hakon O. Lien"

Wyborn Station (A.C.R.)

June 2, 1963

COPY

FRANC. R. JOUBIN & ASSOCIATES

REPORT ON ANOMALY C

WAY TWP.

District of Algona

INTRODUCTION

The source for Anomaly C in Way Twp. is an airborne, combined magnetometer and electromagnetic survey carried out by A.O.P. recently. A possible conductor was indicated by the survey just south of Joques Station on the A.C.R. It was recommended by Dr. Harold O. Seigel that the anomaly be investigated on the ground.

THE SURVEY

Two lines 600 feet long and one 300 feet long, 200 feet apart, were run with E.M. Only two lines were run with the magnetometer (400 feet apart). The railway as well as a high tension transmission line cross the surveyed area.

OVERVIEW

The area is flat and open farming country, covered mainly by clay. No outcrops were seen.

"Hakon O. Lien"

Stavert Station, A.C.R.

June 2, 1963

COPY

FRANC. R. JOUBIN & ASSOCIATES

REPORT ON ANOMALY B

WAY TWP.

District of Algoma

An airborne geophysical survey carried out by A.O.P. some time ago, indicated a possible conductive zone in the southwestern portion of Way Township. It was recommended by Harold O. Seigel and Associates that the anomaly should be investigated on the ground.

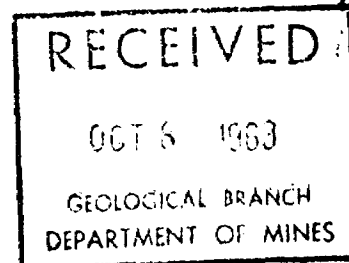
A survey crew tried to reach the area June 3, but the ground work could not be carried out because the area was flooded. The flooding is believed to be caused by a beaver dam.

As no hydro power transmission lines or other man-made constructions could be seen in the area, it is recommended that the anomaly should be investigated during the winter months.

"Hakon O. Lien"

Stavort Station (A.C.R.)

June 3, 1963



COPY

HAROLD O. SEIGEL & ASSOCIATES, LIMITED  
CONSULTING GEOPHYSICISTS  
Suite 913, 25 Adelaide St. West  
TORONTO 1, ONTARIO

CABLE:

"SEIGEL", TORONTO

TELEPHONE

364-2650

FRANC. R. JOUBIN & ASSOCIATES  
GROUND INVESTIGATION REPORT  
AREA C, WAY TWP.

INTRODUCTION

The source of interest here was an airborne E.M. indication selected by the writer on re-examination of the original A.E.M. data. The original comments regarding this conductor are as follows:

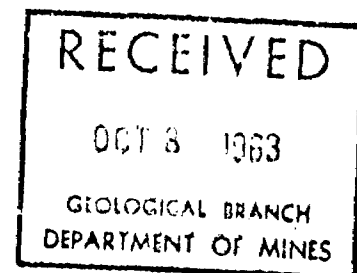
"Conductor C lies at a bend of the .C.R. track in the southeast quarter of the township, also on a road. Whereas power line and other man-made conductors are distinct possibilities here the same road and track do not elsewhere give rise to such effects. Once again, in view of the ease of access, the writer suggests that this target should be examined on the ground."

A copy of a report by Hakon O. Lien, which is attached, gives the description of the grid and the surface features.

DISCUSSION OF RESULTS

A maximum range of approximately 170 gammas was observed on the two lines run by magnetometer.

The electromagnetic survey was hampered by A.C. noise from the power line and railway line traversing the area. A wire fence also parallels the above two features. Strangely enough, little or no conduction was observed, although it is noted that eight stations in the immediate vicinity of the metal lines were not readable due to A.C. noise.



COPY

2.

CONCLUSIONS & RECOMMENDATIONS

Whereas the present test cannot be regarded as conclusive because of the noise, the writer regards the source of the airborne indication to be likely due to the coincidence of the three man-made conductors.

No further action is recommended on Area C.

Respectfully submitted,

(signed) "Harold G. Selgel"

Harold G. Selgel, Ph.D., P.Eng.

Toronto, Ontario  
June 18, 1963

COPY

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TORONTO 1, ONTARIO

CABLE:

TELEPHONE

"SEIGEL", TORONTO

364-2650

FRANC. R. JOUBIN & ASSOCIATES  
GROUND INVESTIGATION REPORT  
AREA A, WAY TWP.

### INTRODUCTION

The basis of interest in this area was an airborne electromagnetic anomaly, indicated by an A.E.M. survey carried out on behalf of A.C.P. The following is the writer's original description of this anomaly:

"Conductor A strikes generally E-W, parallel to a road, and crossed the A.C.R. track just west of the town of Hearst. There is a strong probability that it is due to a power line, but some contorted magnetic activity in the area suggests that bedrock conduction is possible. In view of the ready access, it is recommended that the site should be examined and, if a correlating power line does not exist, ground electromagnetic and magnetometer surveys should be carried out."

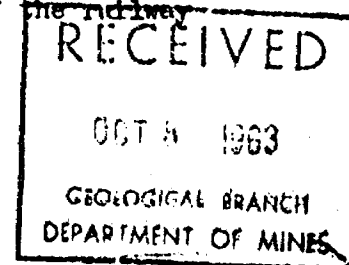
A copy of a report by Hakon O. Lien, which is appended hereto, describes the grid of two lines which were traversed by magnetometer and electromagnetic surveys.

### DISCUSSION OF RESULTS

As the surface plan indicates, the anomalous area is traversed by the A.C.R. railway track and by no fewer than four intersecting power lines.

Due to A.C. noise, little useful E.M. information was obtained.

Approximately 700 gammas magnetic relief was observed, due mainly to one negative anomaly in the vicinity of the railway track.





COPY

2.

CONCLUSIONS & RECOMMENDATIONS

The A.E.M. anomaly was undoubtedly due to the congregation of power lines and, in accordance with the original recommendations, the area could have been abandoned after a visual inspection.

No further investigation is recommended for this area.

Respectfully submitted,

(signed) "Harold O. Seigel"

Harold O. Seigel, Ph.D., P.Eng.

Toronto, Ontario  
June 10th, 1963

FRANC. R. JOUBIN & ASSOCIATES

REPORT ON ANOMALY C<sup>1</sup>

ALDERSON TOWNSHIP

District of Algoma

INTRODUCTION

An airborne geophysical survey carried out by A.O.P. some years ago indicated a possible conductor in the eastern portion of Alderson Township. Harold O. Seigel and Associates, Toronto, recommended the area to be investigated on the ground.

THE SURVEY

One sixteen hundred foot long baseline was cut, and 5 crosslines, respectively, 700, 2000, 2000, 1400 and 1400 feet long were blazed and chained, along which E.M. and magnetometer surveys were carried out.

OVERBURDEN

The surveyed area is flat, low ground covered by muskeg. No outcrops were seen. The bottom (along the shore line) of the lake to the west of the grid is covered by sand.

"Hakon O. Lien"

Kennedy Station, A.C.R.  
June 13, 1963

COPY

HAROLD O. SEIGEL & ASSOCIATES, LIMITED

CONSULTING GEOPHYSICISTS

Suite 913, 25 Adelaide St. West  
Toronto 1, Ontario

CABLE:

"SEIGEO", TORONTO

TELEPHONE

364-2650

FRANC. R. JOUBIN & ASSOCIATES  
GROUND INVESTIGATION REPORT  
AREA C<sup>1</sup>, ALDERSON TWP., ONT.

INTRODUCTION

The basis of interest in this area was a conductive indication obtained on an airborne electromagnetic survey previously carried out by A.O.P. For the writer's comments thereon, please refer to the report on Area C, Alderson Twp.

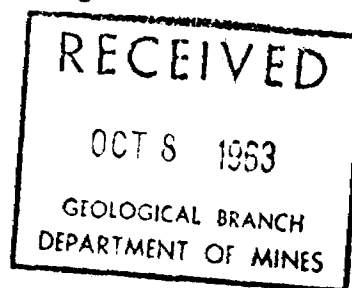
A copy of a brief report by Mr. Hakon O. Lien is attached, covering his surface examination of this area.

Five crosslines, oriented N 30° W, were set in at 400' intervals by pace and compass from a base line. One transverse line, generally parallel to the base line was also established. These lines were covered by magnetometer and electromagnetic surveys.

DISCUSSION OF RESULTS

The magnetometer survey results show a maximum relief of about 600 gammas. Unfortunately, the survey lines are almost parallel to the magnetic strike, so that line 16E is about 400 gammas above the regional level along most of its length. The strike as determined on grid C, on the other side of South Mawi Lake, is about N 30° W.

The electromagnetic survey shows a maximum of 7° tilt angle relief. When the 3° bias is taken into account, three possible minor conductive indications are observed. The most prominent of these, on line 4E near the base line, has not been corroborated by a fixed transmitter set-up. Increased null widths, of up to 14°, are observed at various places on the grid.



COPY

2.

Once again weak bedrock conduction, or more likely, overburden effects are the source of the very minor ground E.M. indications and the stronger airborne effects. The same remarks apply as for Area C, regarding the basic lack of discrimination of the A.E.M. out-of-phase system.

No further work is recommended on this target.

Respectfully submitted,

(signed) "Harold G. Seigel"

Harold G. Seigel, Ph.D., P.Eng.

Toronto, Ontario

June 15th, 1963

COPY

2.

Once again weak bedrock conduction, or more likely, overburden effects are the source of the very minor ground E.M. indications and the stronger airborne effects. The same remarks apply as for Area C, regarding the basic lack of discrimination of the A.E.M. out-of-phase system.

No further work is recommended on this target.

Respectfully submitted,

(signed) "Harold C. Seigel"

Harold C. Seigel, Ph.D., P.Eng.

Toronto, Ontario

June 15<sup>th</sup>, 1963

COPY

FRANC. R. JOUBIN & ASSOCIATES

REPORT ON ANOMALY A

ALDERSON TOWNSHIP

DISTRICT OF ALICOMA

INTRODUCTION

An airborne geophysical survey carried out some years ago by A.O.P. indicated a possible conductor in the southeastern corner of Alderson Township. It was recommended by Harold O. Seigel and Associates that the area should be investigated on the ground.

THE SURVEY

Ground E.M. and magnetometer survey were carried out along seven lines, each 1000 feet long and with a spacing of 200 feet. The bearing of the base line is  $120^{\circ}$ .

OVERBURDEN

The surveyed area is located on a flat ridge (less than 50 feet high) in a swampy country. No outcrops were seen.

"Hakon O. Lien"

Norris Station, A.C.N.,  
June 17, 1963.

COPY

HAROLD O. SEIGEL & ASSOCIATES, LIMITED  
CONSULTING GEOPHYSICISTS

Suite 913, 25 Adelaide St. West

Toronto 1, Ontario

CABLE:

"SEIGEL", TORONTO

TELEPHONE

364-2650

FRANC. R. JOUBIN & ASSOCIATES

GROUND INVESTIGATION REPORT

AREA C, ALDERSON TWP., ONTARIO

INTRODUCTION

The basis of interest in this area was an airborne electromagnetic indication obtained on a survey previously carried out on behalf of A.O.P. The writer's comments on this conductor, as embodied in his report dated March 23rd, 1963 are as follows:

"A long, irregular conducting zone crosses the north-east portion of the township. Phase angles of up to  $0.6^{\circ}$  and ratios of up to 1.5 suggest that bedrock conduction exists. A second, shorter zone lies to the south near the east boundary of the sheet. There appears to be no aeromagnetic correlation on these conductors. They are probably shear zones containing graphite with, at most, minor sulphides. As the south zone is of reasonable length, it may be worth a ground check at C, just west of Mawgi Lake, or, if more convenient, at C<sup>1</sup>, just east of this lake and close to the A.C.R. track".

Mr. Hakon O. Lien has inspected the area in question (C) and reports that "it is flat and covered by muskeg, and no outcrops were seen".

A base line striking  $300^{\circ}$  and three crosslines at 400' intervals, were established by blaze and compass. Two short crosslines were also put in. All lines were covered by magnetometer and parallel line electromagnetic traverses. One detail (fixed transmitter) traverse was run as well.

DISCUSSION OF RESULTS

The magnetometer survey indicates a feature of from 800-1500 gammas amplitude, striking NNW across the grid.

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DEPARTMENT OF MINES

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2.

The electromagnetic survey has not revealed any clear-cut cross-overs or even tilt angles larger than  $7^\circ$ . A uniform  $3^\circ$  tilt bias seems apparent on the readings, and instructions have been sent to correct this. When this bias is taken into account, a minor conductor ( $6^\circ$  peak-to-peak) appears on line O, striking parallel to the magnetic feature. The increased null widths ( $8^\circ - 10^\circ$  rather than  $4^\circ - 5^\circ$  normally) in this region also tend to confirm very weak conduction in this area.

This conduction may be a very weak shear or fault zone in the bedrock, or may be due to overburden effects. In either case it would undoubtedly show up more strongly on the out-of-phase airborne E.M. system than on the in-phase ground system. This is another instance of the lack of discrimination of this airborne E.M. system.

Anomaly C is deemed to be of no further interest, at least on the basis of the present information.

Respectfully submitted,

(signed) "Harold O. Seigel"

Harold O. Seigel, Ph.D., P.Eng.

Toronto, Ontario

June 18th, 1963



COPY

FRANC. R. JOUBIN & ASSOCIATES  
REPORT ON ANOMALY A  
FRANZ TOWNSHIP  
DISTRICT OF ALGOMA

INTRODUCTION

An airborne geophysical survey carried out by A.O.P. some time ago, revealed a possible conductive zone in the western portion of Franz Twp., just north of Albany Forks Station on C.N.R. It was recommended by Harold O. Seigel and Associates that the anomaly should be investigated on the ground.

THE SURVEY

Five lines, 1000 feet long, 400 feet apart, and with a bearing of 65° were blazed and chained. A ground E.M. and magnetometer survey was carried out along the lines.

OVERSOURCEN

The surveyed area is flat and covered mainly by swamp. The part of the area that lies between 1+00 E and 5+00 E (all crosslines) on the surveyed grid is underlain by semi-dry muskeg.

No outcrops were seen.

"Hakon O. Lien"

Edison Lake  
June 24, 1963

COPY

HAROLD O. SKIDEL & ASSOCIATES, LIMITED  
CONSULTING GEOPHYSICISTS  
Suite 913, 25 Adelaide St. West  
Toronto 1, Ontario

TELEPHONE  
364-2650

CABLE:

"SKIDEL", TORONTO

FRANC. R. JOUBIN & ASSOCIATES, LIMITED  
GROUND INVESTIGATION REPORT  
AREA A, ALDERSON TWP., ONTARIO

### INTRODUCTION

The object of this ground investigation was a conductor indicated by an airborne electromagnetic survey carried out previously on behalf of A.O.P. The writer's description of this indication, as presented in his report of March 23rd, 1963, follows:

"Two additional conductors exhibiting moderate electrical amplitude, good ratios and apparent direct magnetic correlation, have been indicated by the letters A and B. In neither case is the conductor strike well established, but it is possibly NW for A and EW for B. The former is really incompletely defined by the present survey as it lies on the south boundary. It is recommended that A and B should be subjected to ground investigation as well."

A report by Mr. Hakon O. Lien, which is attached, gives details of the grid of lines which was surveyed by magnetometer and electromagnetic methods, and describes the surface features of the area.

### DISCUSSION OF RESULTS

The magnetometer survey has confirmed the aeromagnetic anomaly which was a large part of the interest in this conductor through its apparent correlation. This magnetic anomaly is visible on five lines (4E to 8W) and varies in amplitude from 300 to 1600 gammas. Depth interpretations based on these magnetic curve forms indicate that the depth of cover is not more than 30' on the west side of the grid (line 4W), but may deepen to as much as 90' on line 2E.

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DEPARTMENT OF MINES

The electromagnetic survey shows no tilt angle conductive indications. The intercoil spacing was only 200' for the reconnaissance survey, which has a maximum depth of penetration of only about 100'. We cannot, however, attribute the lack of conductive effects to the thickness of overburden, as a maximum of only 30' is expected on the west side of the grid.

Since the magnetic feature has been located on the ground, we are reasonably assured that the grid is properly located.

The writer concludes that the A.H.H. conductor was due to a thickening (90' or so) of conductive overburden, over a fortuitously correlating magnetic feature.

No further investigation appears warranted on this area, based on the present data.

Respectfully submitted,

(signed) "Harold O. Seigel"

Harold O. Seigel, Ph.D., P.Eng.

Toronto, Ontario  
June 28th, 1963

COPY

FRANC. R. JOUBIN & ASSOCIATES

REPORT ON ANOMALY B

DERRY TOWNSHIP

DISTRICT OF ALBERTA

INTRODUCTION

An airborne geophysical survey carried out some years ago by A.O.P. indicated a possible conductor in the northwestern portion of Derry Twp. It was recommended by Dr. Harold O. Seigel that the area should be investigated on the ground.

THE SURVEY

A ground E.M. and magnetometer survey was carried out along five lines, each 1000 feet long and with a spacing of 400 feet. The bearing of the lines is N-S.

GEOLOGY

Only one outcrop was seen in the area. It is located 50 feet east of 2 + 00 N on L. 16E, and consists of diabase. It was impossible to determine the strike direction of the dike.

OVERBURDEN

The surveyed area is flat and covered mostly by cedar swamp. A creek running E-W is located just south of the base line.

"Hakon G. Lien"

Kabinakagami Lake  
July 1st, 1963

COPY

FRANC. R. JOUBIN & ASSOCIATES

REPORT ON ANOMALY A  
DERRY TOWNSHIP

DISTRICT OF ALGOMA

INTRODUCTION

The source for Anomaly A in Derry Twp. is an airborne geophysical survey carried out by A.C.P. some time ago. A possible conductor was indicated by the survey in the north-western part of the Twp. It was recommended by Mr. Harold O. Seigel that the anomaly should be investigated on the ground.

THE SURVEY

Five lines 1000 feet long and 400 feet apart were cut, and surveyed with ground E.M. and magnetometer. The bearing of the lines is N-S.

OVERBURDEN

The surveyed area is flat and covered by glacial drift, with a cedar swamp in the western portion of the grid. No outcrops were seen. The overburden is believed to be heavy.

"Hakon O. Lien"

Kahinakapani Lake  
July 1st, 1963

COPY

HAROLD O. SNIJEL & ASSOCIATES, LIMITED

CONSULTING GEOPHYSICISTS

Suite 913, 25 Adelaide St. West

TORONTO 1, ONTARIO

CABLE:

"SNIJEL", TORONTO

TELEPHONE

361-2650

FRANC. R. JOUIN & ASSOCIATES, LIMITED

GROUND INVESTIGATION REPORT

AREA A, FRANZ TWP., ONTARIO

### INTRODUCTION

Interest in this area is based on a conductive indication observed on an airborne electromagnetic survey carried out on behalf of A.O.P. The writer's comments thereon, excerpted from his report of March 23rd, 1963, follow:

"One A.E.M. conductor remains of possible bed-rock origin. It is designated as A and lies in the NW corner of the sheet, within 1/4 mile of the Canadian National Railway track. It strikes northwest and coincides with the peak of a 200 gamma closure. The ratios are rather poor, but the magnetic correlation compensates, in the writer's opinion. Despite the fact that this may be an accidental coincidence, the writer recommends ground follow-up on this conductor."

A report by Hakon O. Lien is attached, describing the grid of lines surveyed and the surface features in the area.

### DISCUSSION OF RESULTS

The magnetometer survey has confirmed the presence of a magnetic anomaly of about 1000 gammas peak amplitude, striking about N 30° W across the survey area. This is presumably the magnetic feature observed on the airborne survey.

The electromagnetic survey has failed to indicate the presence of tilt angle changes greater than about 1° from a mean (bias) level on each line. Since the indicated depth of overburden on lines 8 N to 16 N is less than 50', we must conclude that

- (a) The magnetic feature, which formed a large part of the interest in this area, is not conductive and

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DEPARTMENT OF MINES

2.

(b) The conduction is due to the overburden (there are null widths of up to  $15^{\circ}$ ) and the magnetic correlation was accidental.

No further action is recommended for this area based on the above results.

Respectfully submitted,

(signed) "Harold O. Seigel"

Toronto, Ontario,  
July 3rd, 1963

Harold C. Seigel, Ph.D., P.Eng.

COPY

HAROLD O. SRIGEL & ASSOCIATES, LIMITED

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Suite 913, 25 Adelaide St. West  
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CABLE:

"SEIGEON", TORONTO

TELEPHONE

364-2650

FRANC. R. JOUBIN & ASSOCIATES, LIMITED

GROUND INVESTIGATION REPORT  
AREAS A & B, DERRY TWP., ONTARIO

INTRODUCTION

The basis of interest in these areas was a conductor indicated on an airborne electromagnetic survey carried out on behalf of A.O.P. The writer's comments on these conductors, in his report of March 23rd, 1963, follow:

"Two rather weak A.E.M. conductors remain, which, together, warrant ground investigation as they are only 3/4 mile apart. They are designated A and B and lie in the northwest quarter of the sheet, west of the Kabinakagami River. The strikes are WNW. Conductor A lies on or near the top of a 600 gammas ridge, which is possibly a basic intrusive. Asbestos and nickel possibilities would exist. It should be checked near lines 239-241. Conductor B has possibly weak negative magnetic correlation, and should be checked near lines 243-245."

Reports by Mr. Hakon O. Lien are attached, describing the grid of lines traversed in each area and the surface features of these grids.

DISCUSSION OF RESULTS

Area A

The aeromagnetic anomaly referred to in this area has been confirmed on the ground as a broad zone striking generally east-west across the grid. The peak magnetic relief ranges up to 3300 gammas.

No electromagnetic tilt angles greater than about 1/2° from a mean were observed on the entire grid area. It is apparent that no part of the magnetic structure is appreciably

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DEPARTMENT OF MINES



conducting. It is concluded that the observed airborne indication was due to overburden conduction, and that the magnetic correlation was fortuitous.

Area B

The magnetometer profiles show two areas of moderate relief, which are not interconnected.

No tilt angles in excess of  $1^{\circ}$  from a mean are to be seen on the electromagnetic survey.

It is concluded, once again, that the airborne conduction in this area was due to overburden effects.

No recommendations can be made for further investigation in either of these areas based on the present results.

Respectfully submitted,

(signed) "Harold O. Seigel"

Harold O. Seigel, Ph.D., P.Eng.

Toronto, Ontario.  
July 5th, 1963

COPY

FRANC. R. JOUBIN & ASSOCIATES

REPORT ON ANOMALY B  
ALDERSON TOWNSHIP

District of Alberta

INTRODUCTION

An airborne geophysical survey carried out a few years ago by A.O.P. indicated a possible conductor in the southwestern portion of Alderson Twp. It was recommended by Dr. Harold O. Seigel that the area should be investigated on the ground.

THE SURVEY

Six north-south oriented lines were blazed, each 300 feet to the south and 700 feet to the north of a base line, and 400 feet apart. The grid was surveyed with magnetometer and E.M.

OVERBURDEN

The surveyed area is fairly flat and covered by swamp in the northern part of the grid. A small creek runs parallel to L 12 E and turns toward NW at the northern end of the line. The base line cuts the north tip of a drumlin at L 8 E.

No outcrop was seen.

"Hakon O. Lien"

Norris Station, A.C.R.

July 12, 1963

COPY

HAROLD O. SKIDEL & ASSOCIATES, LIMITED

CONSULTING GEOPHYSICISTS

Suite 913, 25 Adelaide St. West

TORONTO 1, ONTARIO

CABLE:

"SKIDEL", TORONTO

TELEPHONE

364-2650

FRANC. R. JOUHEM & ASSOCIATES, LIMITED

GROUND INVESTIGATION REPORT

AREA B, ALDERSON TWP., ONTARIO

### INTRODUCTION

The source of interest in this area was a conductor indicated by an airborne electromagnetic survey carried out in 1956 on behalf of A.C.R. The following were the writer's comments on the airborne indication, as presented in his report of March 23rd, 1963:

"Two additional conductors exhibiting moderate electrical amplitude, good ratios and apparent direct magnetic correlation have been indicated by the letters A and B. In neither case is the conductor strike well established, but it is possibly NW for A and EW for B. It is recommended that A and B should be subjected to ground investigations as well."

The accompanying report by Mr. Hakon O. Lien describes the grid of lines which were established, by blaze and compass, and which were traversed by electromagnetic and magnetometer surveys.

### DISCUSSION OF RESULTS

The magnetometer survey has confirmed the presence of a magnetic ridge of about 300 gammas peak amplitude, striking EW through the centre of the grid, and a second ridge of up to 600 gammas relief lying in the southwest corner of the grid.

Based on the magnetic curves, the depth of overburden is less than 50' on most lines.

The electromagnetic results are singularly flat, with no tilt angle departing by more than 1° from a mean.

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OCT 8 1963

GEOLOGICAL BRANCH  
DEPARTMENT OF MINES

2.

It is concluded that the airborne conduction was caused by overburden effects and that the apparent magnetic correlation was fortuitous.

No further investigation can be recommended, based on the present information.

Respectfully submitted,

(signed) "Harold O. Seigel"

Harold O. Seigel, Ph.D., P.Eng.

Toronto, Ontario

July 18th, 1963

COPY

FRANC. R. JOUBIN & ASSOCIATES LTD.

REPORT ON AKRON ANOMALY

IRVING TWP.

District of Algoma

INTRODUCTION

Asbestos is known to occur in serpentized rocks in the northern portion of Irving Twp., about one mile north of Akron Station on the A.C.R. An airborne geophysical survey revealed a trend of magnetic activity in the area.

A Ground E.M. and magnetic survey was carried out along five lines, having a bearing of  $55^{\circ}$  of which two were 2000 feet long and three 1000 feet long. The grid is located on the east side of the railway, and the lines have a spacing of 400 feet.

GEOLOGY

Only a few outcrops were seen. In the western corner of the surveyed grid outcrops of granite and banded gneiss were seen. Gneiss was also found in the south-western corner of the surveyed area. In the central portion a few outcrops of serpentine occur.

OVERBURDEN

The central part of the surveyed area is covered by swamp. The remaining portions consist of poplar-ridges.

"Hakon O. Lien"

Langdon Station, A.C.R.

July 18, 1963

COPY

HAROLD O. SEIGEL & ASSOCIATES, LIMITED  
CONSULTING GEOPHYSICISTS  
Suite 913, 25 Adelaide St. West  
TORONTO 1, ONTARIO

TELEPHONE  
364-2650

CABLE:

"SEIGEO", TORONTO

FRANC. R. JOUHN & ASSOCIATES LIMITED  
REPORT ON GROUND INVESTIGATION  
AKRON ANOMALY, IRVING TWP. ONTARIO

### INTRODUCTION

The basis of interest in this area was an aeromagnetic anomaly revealed by an earlier survey carried out on behalf of A.C.R. Asbestos is known to occur in serpentized rocks in this general vicinity, and it was hoped that the serpentized bodies would be revealed by the aeromagnetic data.

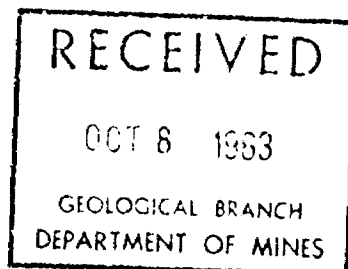
A geological report and plan by Mr. Hakon O. Lien is attached, showing as well, the grid of lines surveyed by magnetometer and electromagnetic methods.

### DISCUSSION OF RESULTS

The ground magnetometer survey confirms the presence of a band of magnetic material, of sinuous form, striking generally north-south across the grid lines. The maximum magnetic relief on any line is only 2000 gammas, so that the average magnetic content is 2% or less by weight. This does not suggest a high degree of serpentization of an ultrabasic intrusive.

Only very minor tilt angle activity was observed on the electromagnetic survey, the maximum being about 5° p-p on line O. Detail traverses on this line failed to corroborate any localized conduction.

Mr. Hakon O. Lien, has noted a few outcrops of serpentine lying within the region of the magnetic anomaly but no mention is made of any asbestos occurrences.



Conclusions and Recommendations

Although a basic intrusive has been confirmed on the ground, the present geological-geophysical picture does not, in the writer's opinion, foster further interest in the Akron Anomaly area, either for asbestos or for base metals.

No further investigation can be recommended on this basis.

Respectfully submitted,

signed "Harold O. Seigel"

Harold O. Seigel, Ph.D., P.Eng.  
Consulting Geophysicist.

Toronto, Ontario  
July 30, 1963.





# ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 1

PROPERTY BOON

CONTINUED

DEPTH	DESCRIPTION	SAMPLING			ANALYSES			
		FROM	TO	REG.				
50.5	Lost core							
52.7-53	Biotite schist							
53-54.5	Lost core							
54.5-55	Rusty biotite schist							
55-56.6	Lost core							
56.6	Biotite schist							
57.3	Lost core							
57.3	Lost core							
58.3	Biotite schist							
58.3-59	Biotite schist							
59-62.1	Lost core							
62.1	Rusty schist							
62.6	Lost core							
62.6-64	Lost core							
64-64.6	Biotite schist							
64.6	Lost core							
65.1	Lost core							
66.1	Rusty schist fragments							
66.8	Lost core							
66.8-68	Lost core							
68-68.5	Biotite schist							
68.5-70	Lost core							
70-71.3	Lost core							
71.3	Biotite schist							
72.2	Lost core							
72.2	Lost core							
73.8	Biotite schist							
74.2	Biotite schist							



# ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 1

PROPERTY BOON

CONTINUED

	DESCRIPTION	SAMPLING			ANALYSES			
		FROM	TO	REC.				
	Fine grain biotite schist, light gray in color							
	Lost core							
107-110	Fine biotite schist							
	Lost core							
111.8								
111.8 - 115	Biotite schist							
	Lost core							
115.8								
115.8 - 117.8	Chloritized biotite schist							
	Lost core							
117.8 - 120								
120-125	Chloritized biotite schist							
	Lost core							
125 - 126.5								
126.5 - 131	Light gray quartz biotite schist							
131-136	Weathered biotite schist - color from brown to pale green							
136-137	Quartz biotite schist increasing acidity becoming pegmatitic at 138'							
	Lost core							
138 - 139.8								
139.8 - 145	Pegmatite - very coarse texture							
	Lost core							
145 - 146.5								
146.5 - 150	Quartz biotite schist - light gray in color, sulfides present at 147' and also 149.9 - pyrite							

# ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 1

PROPERTY Boon

CONTINUED

G.P. 10420-81

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES	
		FROM	TO	REC.		
150-152	Lost core					
152-154	Light gray, very schistose, biotite contains a few disseminated sulfides - pyrite and pyrrhotite					
154-158	Biotite schist, altered to sericite banding quite prevalent, with colors altering from light gray to green					
158-165	Rock type graphitic schist - concentrated massive type at footage 158-160 also 164-165. Some graphite bears sulfides					
165-166	Biotite schist					
166-171	Garnetiferous schist biotite and hornblend garnet metacrysts are very small but abundant					
171-175	Quartz biotite schist - light gray in color with a coarser texture					
175-180	Mixture of schist sulfides and graphite					
180-200	Predominately biotite - with little hornblend schist, coarser texture and darker - medium gray in color, also bears sprinkling of sulfides - pyrite					
200 - 211.4	Quartz biotite schist, fine grain and light gray					
211.4 - 212.2	Massive graphite bearing sulfides	211.4		212.2		
212.2 - 214.5	Biotite schist					
214.5 - 215	Concentrated massive pyrite and pyrrhotite					
215-222	Rock type quartz biotite schist bearing disseminated sulfides, richer portion assayed	213.9		221.6		

# ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 1

PROPERTY Boon

CONTINUED

OP. 10420.91

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES		
		FROM	TO	REC.			
222-225	Rocktype variety biotite hornblend schist						
225-230	Biotite schist						
230 - 253.6	Rocktype - varies - a mixture of biotite hornblend schist - medium gray in color						
253.6 - 254.5	Graphite schist						
254.5 - 280	Typical light gray biotite schist						
280 - 296.2	Garnetiferous schist-matic minerals hornblend and biotite						
296.2 - 297.1	Quartz stringer						
297.1 - 321	Garnetiferous schist - pinkish metacrysts in a pale gray to green background						
321-372	Biotite schist						
372 - 373.6	Lost core						
373.6 - 400	Fine textured biotite schist						
400-410	Garnetiferous schist - varying amounts hornblend and biotite, very fine grain						
410-415	Mixture biotite hornblend - very fine grain						
415-425	Same as above, however note increasing amount quartz stringers throughout core						
425-435	Hornblend biotite schist						
435-440	Crushed core fragments - same schist as rock type but more acidic and lighter gray						

# ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 1

PROPERTY BOON

CONTINUED

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES			
		FROM	TO	REC.				
440-445	Hornblend (amphibole) schist, green to pale green color							
445-450	Hornblend schist, grayish color, increasing amount biotite							
450-451	Biotite schist							
451-455	Garnetiferous hornblend schist							
455-470	Biotite schist							
470-500	Garnetiferous hornblend schist							
500-525	Biotite schist							
525-530	Biotite "Sericitic" type schist							
530-531	Garnetiferous hornblend schist							
531-533.5	Biotite schist, bearing disseminated stringers pyrrhotite		532			533.5		
533.5 - 536.11	Chloritized garnetiferous schist bearing some disseminated sulfide-pyrrhotite							
536.11-541	Garnetiferous schist							
541-545	Hornblend biotite schist (542.4) pyrrhotite							
545-550	Mixture hornblend biotite schist							
550-555	Same as above but containing trace of few sulfides							
555-560	Hornblend biotite schist medium gray							
560-565	Dark biotite schist with pyrrhotite stringers							
565-570	Biotite schist contains disseminated pyrrhotite							
570 @ 573.5	Same schist, more massive bands of pyrrhotite							

# ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 1

PROPERTY Boon

CONTINUED

62-10430-01

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES		
		FROM	TO	REC.			
573.5 - 575	Hornblend biotite diminishing amount sulfides						
575 - 575.5	Hornblend schist						
575.5 - 576.10	Hornblend schist bearing disseminated pyrite and pyrrhotite						
576.10 - 578	Quartzitic rocktype bearing pyrrhotite - gray in color						
578-580	Hornblend schist more acidic - light gray appearance few sulfides						
580-585	Hornblend schist contains pyrrhotite sprinkled throughout core						
585-590	Mixture biotite hornblend schist						
590-600	Hornblend schist with traces of sulfides through core						
600 - 600.9	Hornblend schist						
600.9 - 601.2	Hornblend and pyrrhotite stringers						
601.2 - 604.2	Hornblend schist						
604.2 - 605	Hornblend (actinolite) schist - sulfides patchy						
605 - 605.10	More acidic hornblend schist, lighter <del>gray</del> gray in color						
605.11	Pyrrhotite						
605.11 - 610	Mixture of schist and quartzitic material bears trace of sulfides						
610 - 615.5	Hornblend schist						
615.5 - 616.4	Schist becomes more mineralized spots massive pyrrhotite						

# ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 1

PROPERTY Boon

CONTINUED

DEPTH	DESCRIPTION	SAMPLING			ANALYSES			
		FROM	TO	REC.				
601.0 - 620	Hornblend schist							
623.3 - 625.3	Increasing amount sulfides in schist	623.10		625				
625.3 - 628	Rocktype mixture schist and pegmatite bearing disseminated pyrite and pyrrhotite varying from 2-6% throughout core							
628-630	Core more schistose contains few sulfides							
630 - 632.10	Highly abundant sulfides in quartzitic rock type	627.8		632.9				
632.10 - 633.6	Decreasing amount of sulfides - core very schistose							
633.6 - 634.2	Graphitic amorphous schist bearing sulfides	633.7		634				
634.2 - 635	Increasing quantity graphite in core							
635 - 636.3	Graphite							
636.3 - 638	Schist no trace of graphite							
638-640	More acidid mixture hornblend biotite schist							
640 - 650.8	Normal biotite schist, light to dark gray, in color and medium grain texture							
	End of hole 650'.8"							
	Record acid test -							
	90'			46°				
	250'			41°				
	400'			35°				
	500'			32°				
	650'			29°				

WILLIAM HALLESSEY



# ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 1 Anomaly #31 PROPERTY Matawitchawan

LOCATION OF COLLAR BL 136+00 400' North ELEV.

AZIMUTH AT COLLAR.

SOUTH 1/2 FRANZ

DIP AT COLLAR: -45° South

VERTICAL SECTION NO.

LENGTH 410'

CORE SIZE 7/8

REC. IN MIN. ZONE.

LOGGED BY

STARTED.

FINISHED.

W. Hallessey

Feb. 7 - 8 p.m.

Feb. 18-4.45pm

10420-51

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES
		FROM	TO	REC.	
0 17.6	Ex. casing				
17.6 26.4	Biotite schist light gray in color varying from fine to medium grain texture				
26.4 27	Pegmatite, coarse-grain-bearing muscovite				
27- 36.2	Biotite schist - same coarse texture				
36.2 38	Pegmatite very white color, bearing biotite and muscovite				
38 38.6	Lost core				
38.6 48.3	Pegmatite				
48.3 49.2	Lost core				
49.2 49.8	Pegmatite				
49.8 50.6	Lost core				
50.6 52	Pegmatite				
52 53.10	Lost core				
53.10 63.8	Pegmatite				
63.8 65	Lost core				
65 66.1	Biotite schist, light gray in color				
66.1 67.2	Lost core				

# ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO.1 Anomaly #31 PROPERTY Matawitchawan

CONTINUED

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES			
		FROM	TO	REC.				
67.2 - 73	Quartz biotite schist very coarse texture							
73 - 75	Lost core							
75 - 77	Quartz biotite schist pale green in color							
77 - 77.8	Lost core							
77.8 - 81.9	Quartz biotite schist							
81.9 - 82.10	Lost core							
82.10 - 93.8	Same biotite schist							
93.8 - 94.7	Pegmatite							
94.7 - 95.6	Biotite schist							
95.6 - 96	Pegmatite							
96 - 103	Quartz biotite schist. color altering from a light gray to pale green - texture fine to medium grain.							
103-116	here rocktype changes to medium grain - black and white normal - biotite granite							
116-116.8	Lost core							
116.8 - 120	Quartz biotite schist							
120-125	Brecciated - pegmatite - regular coarse texture, with brecciation - very visible and pronounced also contains a little pyrite and graphite at 124.8'							
125-128	Biotite and hornblend fine grain mixture							

# ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 1 Anomaly #31 PROPERTY Matawitchawan

CONTINUED

G.P.-10420-31

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES			
		FROM	TO	REC.				
128 136.2	Schist and disseminated sulfides - pyrite - pyrrhotite	128		136.2				
136.2 150	Biotite schist - very coarse texture - light gray in color							
150-160	Mixture of hornblend biotite pegmatite general texture fine grain and having a greenish tint - also bearing a few disseminated sulfides							
160-170	Biotite - hornblend schist. very green in color							
170-175	Pegmatite - also evidence of brecciation in rock							
175-200	Chloritized - hornblend amphibole schist also contains small amount of biotite which is very fine grain							
200-210	Biotite schist. also bears little hornblend rocktype, very light gray in color							
210 219.8	Hornblend schist - dark gray dark gray in color							
219.8 220.1	Pyrrhotite stringer							
220.1 232	Amphibole schist varying from fine to medium grain							
232-236	Garnetiferous hornblend schist							
236-240	Mixture - hornblend biotite schist							
240-260	Amphibole schist - medium grain texture. light green in color. Note: lost core (256-257)							

# ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 1 Anomaly #31 PROPERTY Matawitchawan

CONTINUED

C.P. 10420-31

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES			
		FROM	TO	REC.				
260 263.5	Hornblend - biotite schist - very fine grain							
263.5 264.3	Massive pyrrhotite	263.5		264.3				
264.3 264.8	Biotite schist							
264.8 265.6	Pyrrhotite massive and disseminated	264.8		265.6				
265.6 270.2	Biotite hornblend schist							
270.2 270.6	Pegmatite							
270.6 275	Hornblend biotite schist							
275-282	Biotite schist							
282 - 286.6	Hornblend (amphibole) schist. pale green in color.							
286.6 288.6	Lost core							
286.6 300	Hornblend (amphibole) schist							
300 301.6	Same as above but bearing pyrrhotite at 301.6							
301.6 310	Hornblend (amphibole) schist, same as above.							
310-315	Rock grades into finer texture biotite schist							
315-325	Mixture - biotite hornblend schist at 324.10 - sprinkling of sulfides							
325 326.2	Leached and pitted sulfides in hornblend schist							
326 334	Biotite schist - rather medium grain and gray color							

# ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 1 **Anomaly #31** PROPERTY **Matawitchawan**  
 LOCATION OF COLLAR  
 AZIMUTH AT COLLAR. ELEV.

DIP AT COLLAR

VERTICAL SECTION NO.

REC. IN MIN. ZONE

LOGGED BY

LENGTH

CORE SIZE

STARTED

FINISHED

SAMPLING

ANALYSES

FROM

TO

REC.

FOOTAGE	DESCRIPTION	LENGTH	STARTED	FINISHED
334-358	Pegmatite			
358-359X	Lost core			
358-359	Hornblend amphibole schist, with trace of sulfides			
359-360	Lost core			
360 371.2	Hornblend - amphibole schist			
371.2 371.8	Schist and leached sulfides			
371.8 372.11	Fine grain - schist			
372.11 373.2	Schist and pyrrhotite stringers			
373.2 375	Hornblend schist			
376 376.2	Graphite - massive			
376.2 377	Hornblend schist			
377 378.3	Schist and disseminated	377		378.3
378.3 380	Lost core			
380 381.5	Schist and trace of sulfides			
381.5 383.7	Lost core			
387-388	Graphite schist			

# ALGOMA ORE PROPERTIES LIMITED

EXPLORATION DEPARTMENT

DIAMOND DRILL HOLE NO. 1 Anomaly #31 PROPERTY Matawitchawan

CONTINUED

C.P. 10420-81

FOOTAGE	DESCRIPTION	SAMPLING			ANALYSES		
		FROM	TO	REC.			
388-390	Schist and graphite						
390-393	Graphite-bearing sulfides and remnants of schist						
393-395	Hornblend schist						
395 397.8	Hornblend schist and graphite						
397.8 398.2	Graphite						
398.2 399.8	More acidic hornblend schist						
399.8 400.8	Schist and graphite						
400.8 402	Lost core						
402 402.8	Blocky, brecciated schist and rock bearing graphite						
402.8 403.5	Lost core						
403.5 407.6	Pegmatite						
407.6 410	Pegmatite						
	Final Depth 410'						
	Acid test						
	100' 42°						
	200' 43°						
	300' 43°						

William Halletsey.

<u>Township</u>	<u>Map Title</u>	<u>Type of Survey</u>	<u>Scale</u>	<u>Work Done</u>	<u>Who Did Work</u>
Alderson		Aeromagnetic	1 inch = 1320 ft.	Oct., 1956 - May, 1957	Aeromagnetic Surveys
"		Aero Electromagnetic	" "	Oct., 1956 - Apr., 1957	" "
"	Anomaly 4 & 6, Central Area	Geology	1 inch = 200 ft.	Aug., 1957	Algoma Ore Properties Exploration Dept.
"	Anomaly 6-A, Central Area	Soil Sampling	E-W 1 inch = 200 ft. N-S 1 inch = 400 ft.		
Derry		Aeromagnetic	1 inch = 1320 ft.	Oct., 1956 - May, 1957	Aeromagnetic Surveys
"		Aero Electromagnetic	" "	Oct., 1956 - Apr., 1957	" "
"	Anomaly No. 50 A, Central Area	Magnetometer	1 inch = 200 ft.	April, 1960	Algoma Ore Properties, Exploration Dept.
"	" "	Electromagnetic	" "	" "	" "
"	Anomaly No. 52, Block "B"	Magnetometer	1 inch = 100 ft.	" "	" "
"	" "	Electromagnetic	" "	" "	" "
"	Anomaly 2, Block "C"	Magnetometer	1 inch = 200 ft.	June, 1958	" "
"	" "	Electromagnetic	" "	" "	" "
"	Anomaly 3, Block "C"	Magnetometer	" "	" "	" "
"	" "	Electromagnetic	" "	May, 1958	" "
"	Anomaly 5, Block "C"	Magnetometer	" "	June, 1958	" "
"	" "	Electromagnetic	" "	" "	" "
"	Anomaly 6, Block "C"	Electromagnetic	" "	" "	" "
"	Anomaly 12, Block "C"	Magnetometer	" "	" "	" "
"	" "	Electromagnetic	" "	" "	" "
"	Anomaly 13, Block "C"	Magnetometer	" "	" "	" "
"	" "	Electromagnetic	" "	" "	" "
"	Anomaly No. 54, Block "C"	Magnetometer	1 inch = 100 ft.	April, 1960	" "
"	" "	Electromagnetic	" "	" "	" "

<u>Township</u>	<u>Map Title</u>	<u>Type of Survey</u>	<u>Scale</u>	<u>Work Done</u>	<u>Who Did Work</u>
1/2 Franz		Aeromagnetic	1 inch = 1320 ft.	Oct., 1956 - Apr., 1957	Aeromagnetic Surv.
"		Aero Electromagnetic	" "	Oct., 1956 - May, 1957	" "
"	Anomalies 31-A-B-C	Magnetometer	1 inch = 200 ft.	Nov. 30, 1957	Algoma Ore Prop.
"	Anomalies 31-A-B-C	Electromagnetic	" "	Nov. 25, 1957	" " "
"	Anomaly 31C	Magnetometer	" "	Nov. 27, 1957	" " "
"	Anomaly 31-C	Electromagnetic	" "	Nov. 30, 1957	" " "
"	Anomaly 31C	Magnetometer	" "	June, 1958	Algoma Ore Props.Ltd
"	Anomaly 32A	Electromagnetic	1 inch = 200 ft.	Nov. 30, 1957	Exploration Dept.
S. 1/2 Franz	Anomaly #31	Drill Hole No.1	Length 410ft.	Feb., 1957	Algoma Ore Props.Ltd
1/2 Glasgow		Aeromagnetic	1 inch = 1320 ft.	Oct., 1956 - May, 1957	Algoma Ore Props.Ltd
Glasgow		Aero Electromagnetic	" "	Oct., 1956 - May, 1957	Exploration Dept.
Landry		Aeromagnetic	" "	Oct., 1956 - May, 1957	Aeromagnetic Surveys
Landry		Aero Electromagnetic	" "	Oct., 1956 - May, 1957	" "
Martin		Aeromagnetic	" "	Oct., 1956 - May, 1957	" "
"		Aero-Electromagnetic	" "	Oct., 1956 - May, 1957	" "
"	Anomaly No.35, Block "C"	Magnetometer	1 inch = 200 ft.	July, 1958	Algoma Ore Props.Ltd
"	Anomaly No.35, Block "C"	Electromagnetic Survey	" "	July, 1958	Exploration Dept.
"	Anomaly 36-A-B-C, Block "C"	Magnetometer	" "	May, 1958	" "
"	" " " "	Electromagnetic	" "	May, 1958	" "
"	Anomaly 37-A, Block "C"	Magnetometer	" "	May, 1958	" "
"	" " " "	Electromagnetic	" "	May, 1958	" "
"	Anomaly 37-B, " "	Magnetometer	" "	May, 1958	" "
"	Anomaly 38, Block "C"	Magnetometer	" "	May, 1958	" "
"	" " " "	Electromagnetic	" "	May, 1958	" "
"	Anomaly 39A & 39B, Blk. "C"	Magnetometer	" "	May, 1958	" "
"	" " " "	Electromagnetic Survey	" "	May, 1958	" "
"	Anomaly 37-B, Block "C"	Electromagnetic	" "	May, 1958	" "

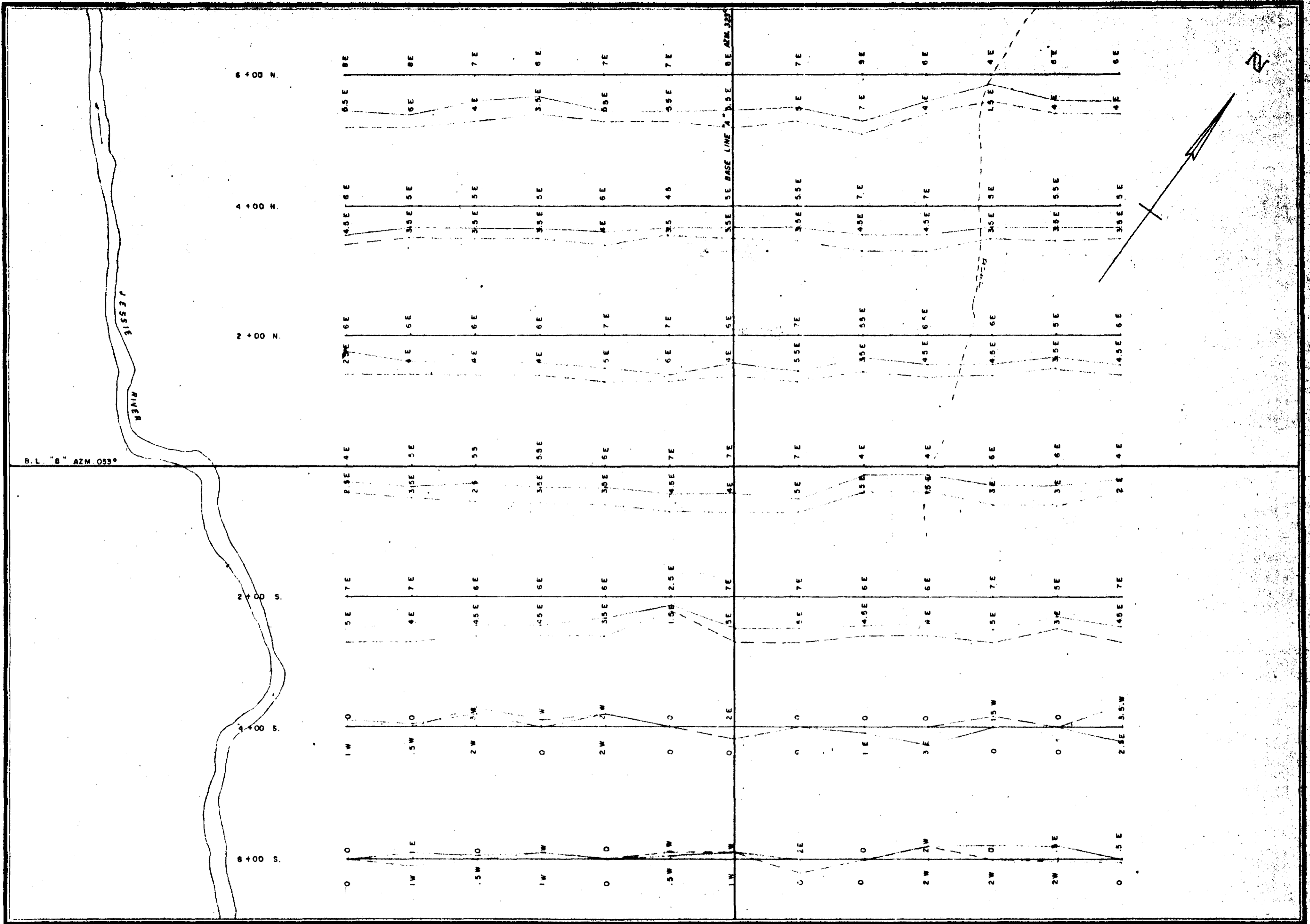


<u>Township</u>	<u>Map Title</u>	<u>Type of Survey</u>	<u>Scale</u>	<u>Work Done</u>	<u>Who Did Work</u>
Mildred		Aeromagnetic	1 inch = 1320 ft.	Oct., 1956 - May, 1957	Aeromagnetic Surveys
"		Aero Electromagnetic	" "	Oct., 1956 - May, 1957	" "
Templeton		Aeromagnetic	" "	Oct., 1956 - May, 1957	" "
"		Aero Electromagnetic	" "	Oct., 1956 - May, 1957	" "
"	Anomalies 1 & 2 (9)	Geology	1 inch = 200 ft.	June, 1958	Algoma Ore Props. Ltd Exploration Dept.
"	" (10)	Geology	" "	" "	" "
"	" (11)	Geology	" "	" "	" "
"	" (14)	Geology	" "	" "	" "
"	" (9)	Magnetometer	" "	Jan., 1958	Algoma Ore Props. Ltd
"	" (10)	Magnetometer	" "	" "	" "
"	" (11)	Magnetometer	" "	" "	" "
"	" (12)	Magnetometer	" "	" "	" "
"	" (13)	Magnetometer	" "	" "	" "
"	" (14)	Magnetometer	" "	" "	" "
"	" (11)	Electromagnetic	" "	" "	" "
"	" (12)	Electromagnetic	" "	" "	" "
"	" (13)	Electromagnetic	" "	" "	" "
"	" (14)	Electromagnetic	" "	" "	" "
"	Anomaly 1-G (9)	Electromagnetic	" "	Dec., 1958	" "
"	Anomaly 1-F.G.2-C (10)	Electromagnetic	" "	Dec., 1957	" "
"	Anomaly 1-F-G (Boon)	Drill Hole No.1	Length 650 ft. 8 ins	Feb.,	" "
"	Anomaly 3 B	Magnetometer	1 inch = 200 ft.	Feb., 1958	" "
"	"	Electromagnetic	" "	" "	" "
Way		Aeromagnetic	1 inch = 1320 ft.	Oct., 1956 - May, 1957	Aeromagnetic Surveys
"		Aero Electromagnetic	" "	Oct., 1956 - May, 1957	" "

ALBOMA ORE PROPERTIES LTD.

Geological Legend

1. Acid to Intermediate Volcanics --- A - Massive  
B - Tuff - Fine Grained Pyroclastic  
C - Banded  
E - Quartz Eyes  
F - Feldspar Porphyry
2. Sediments ----- A - Shale, Argillite  
B - Greywacke  
CGL.- Conglomerate  
GRAPH.- Graphitic  
PY.- Pyritiferous
3. Iron Formation ----- A - Chert  
B - Siderite  
C - Pyrite  
D - Magnetite  
H - Hematite
4. Basic to Intermediate Volcanics -- A - Massive  
B - Pillows  
C - Banded  
D - Pyroclastic i.o. Tuffaceous  
E - Chlorite Schist
5. Metasediments ----- A - Quartz Schist  
B - Biotite - Qtz. Schist  
C - Hornblende Schist  
D - Garnet Schist
6. Basic to Intermediate ----- A - Diorite  
B - Gabbro  
C - Lamprophyre - "Mica Dike"  
D - Peridotite, Pyroxenite, etc.
7. Acid Intrusives ----- A - Granite - Massive  
B - Granite - Gneissic  
C - Granite - Porphyritic  
D - Granite - Felsitic  
E - Pegmatite  
F - Aplite  
G - Syenite  
H - Granodiorite
8. Diabase ----- A - Massive  
B - Porphyritic



GLASGOW-0013 1

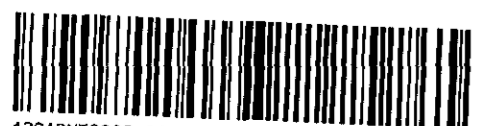
ALGOMA ORE PROPERTIES LIMITED  
EXPLORATION DEPARTMENT

ANOMALY NO. 24 NORTH AREA  
VERTICAL LOOP ELECTROMAGNETIC SURVEY

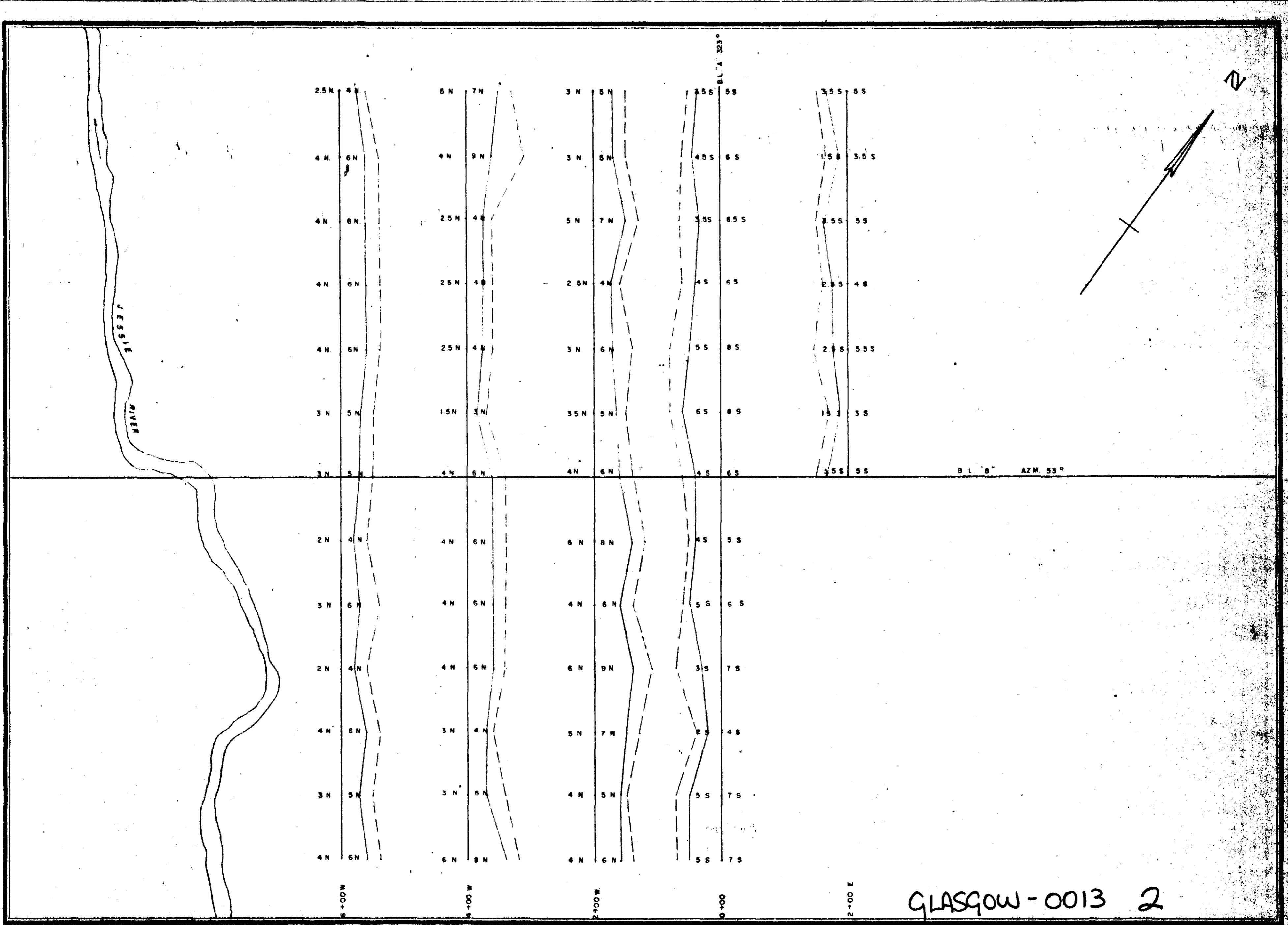
SCALE 1" = 100' NOV. 15, 1961

WAY TWP.

INSTRUMENT: M<sup>c</sup>PHAR R.E.M.  
METHOD: BROADSIDE 200' SPREAD  
LEGEND:  
C.P.E. ——— 1000  
C.P.S. - - - - 5000.  
DIP ANGLES 2H 3H  
(1000 C.P.S.) (5000 C.P.S.)  
CROSS — OVERS  
SCALE 1" = 10'



42G12NE0002 0013 GLASGOW



GLASGOW - 0013 2

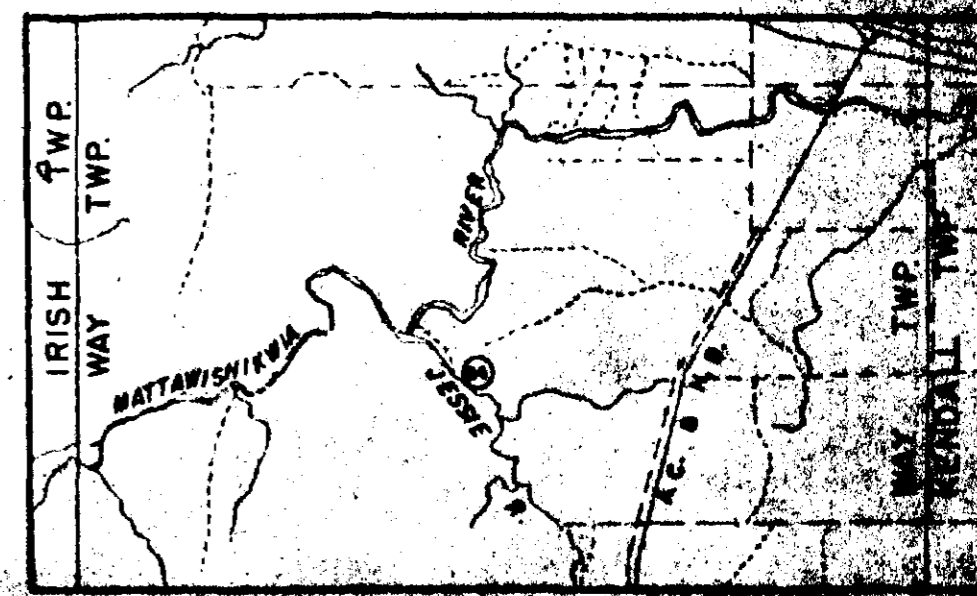
INSTRUMENT: SPPHAR R.E.M.  
 METHOD: BROADSIDE 200' SPREAD  
 LEGEND: C.P.S. ——— 1000  
 C.P.S. - - - - - 5000  
 DIP ANGLES 2N 3N  
 (1000 C.P.S.) (5000 C.P.S.)  
 CROSS DYERS  
 SCALE 1" = 100'

ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT

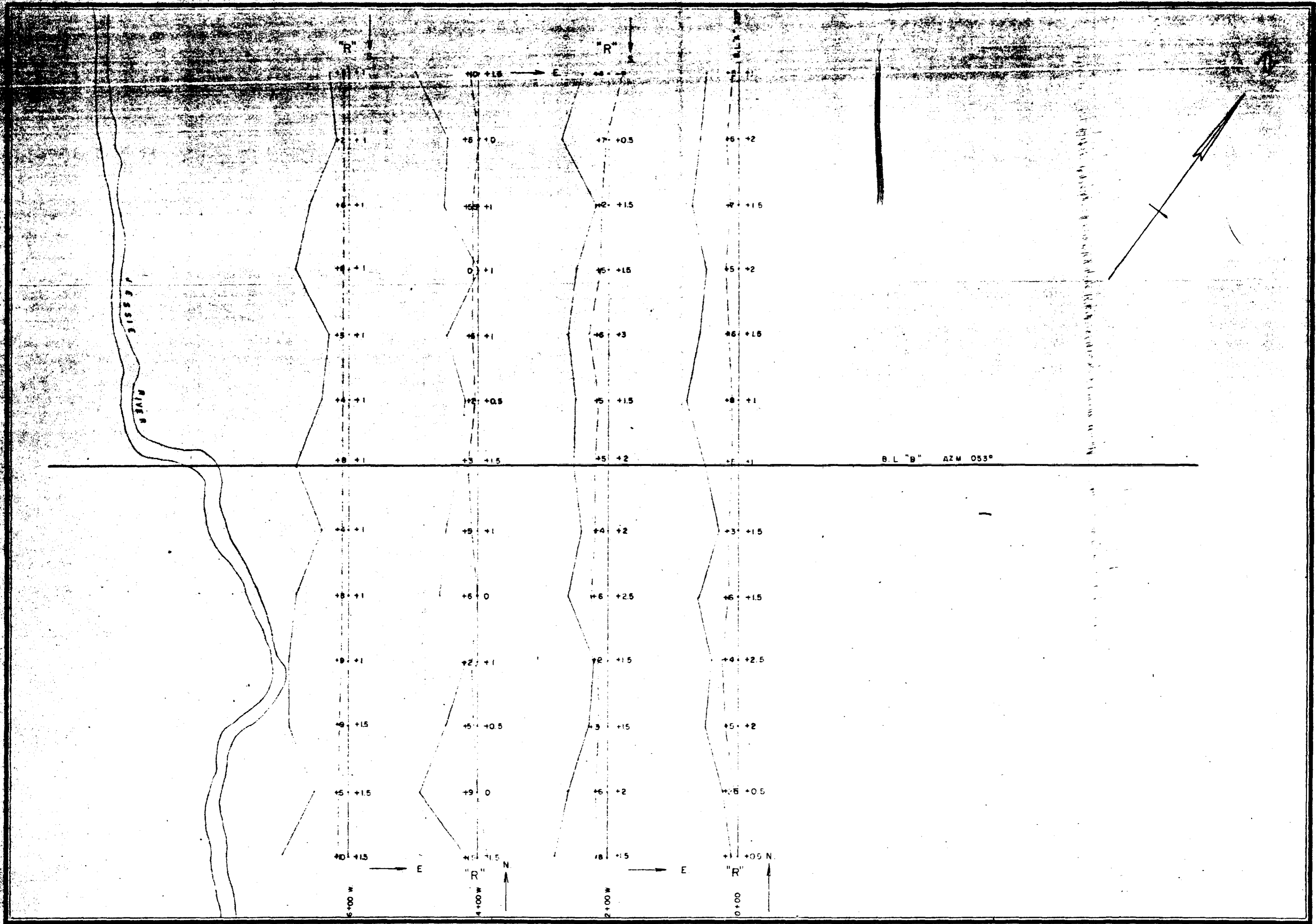
ANOMALY NO. 24 NORTH AREA  
 VERTICAL LOOP ELECTROMAGNETIC SURVEY

SCALE 1" = 100' NOV. 18, 1961

WAY TWP.



42612NE002 0013 GLASGOW



GLASGOW - 0013 3

INSTRUMENT: BOMBA MARK IV  
 METHOD: IN LINE 200' SPREAD  
 LEGEND: IN PHASE READINGS ———  
 OUT OF PHASE READINGS - - - -  
 + 0.5 IN PHASE  
 - 0.5 OUT OF PHASE  
 "R" POSITION OF RECEIVER AT START OF LINE  
 ↑ DIRECTION IN WHICH LINE WAS RUN  
 \* 10% OF PRIMARY FIELD

ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT

ANOMALY NO. 24 NORTH AREA  
 HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

SCALE 1" = 100' NOV. 14, 1961

WAY TWP.



42012NE0002 0013 GLASGOW

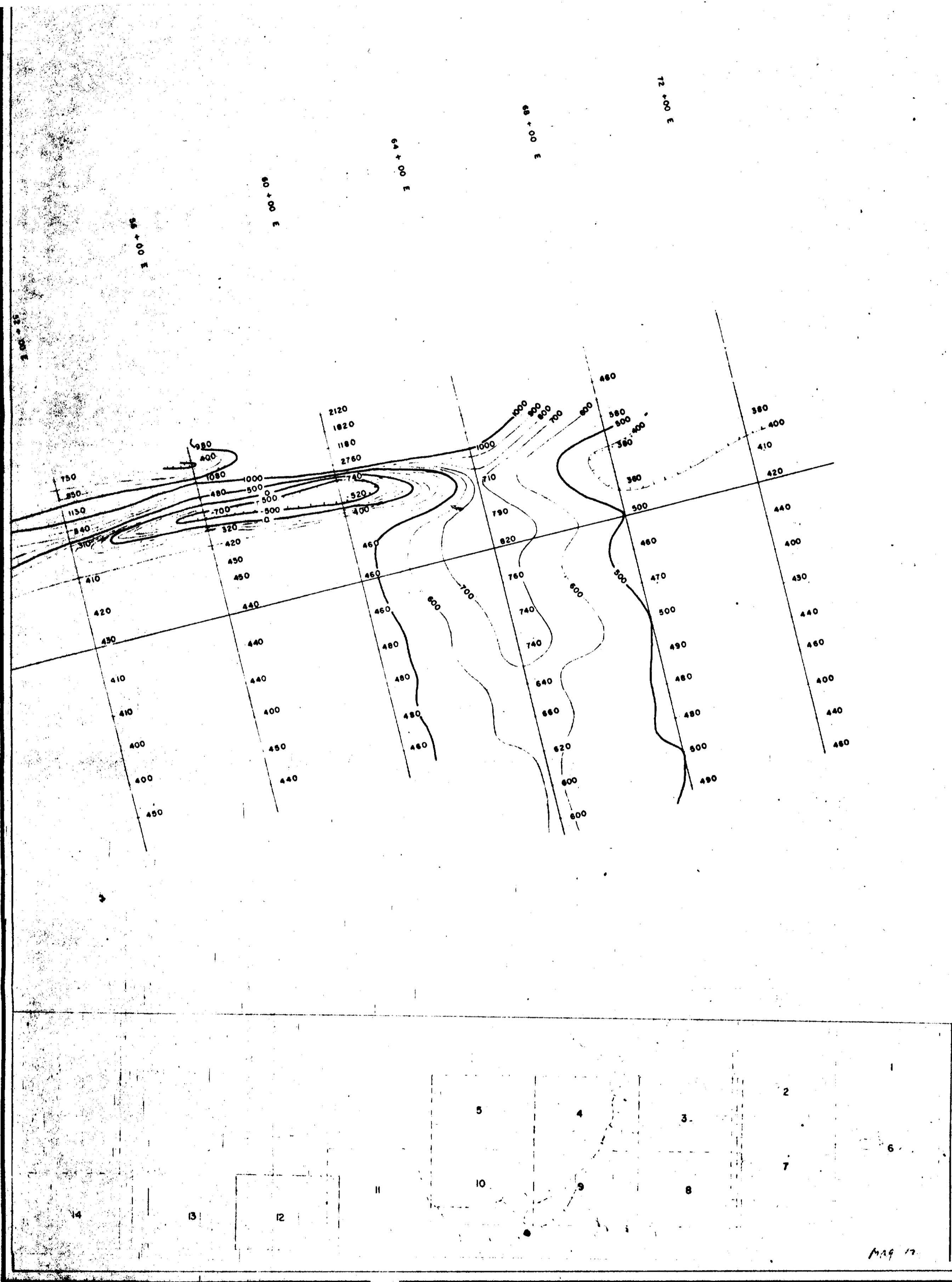
202

16, 1961

D. J. TAGLIABRACCI







GLASGOW-0013 5

**ALGOMA ORE PROPERTIES LTD.**  
**MAGNETOMETER SURVEY**  
**ANOMALY 1 & 2**  
 SCALE 1" = 200'  
 JAN. 31 / 58.

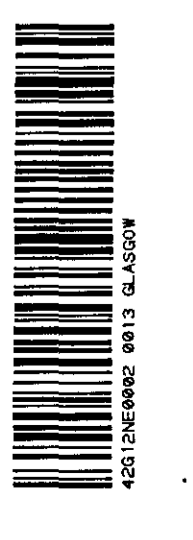




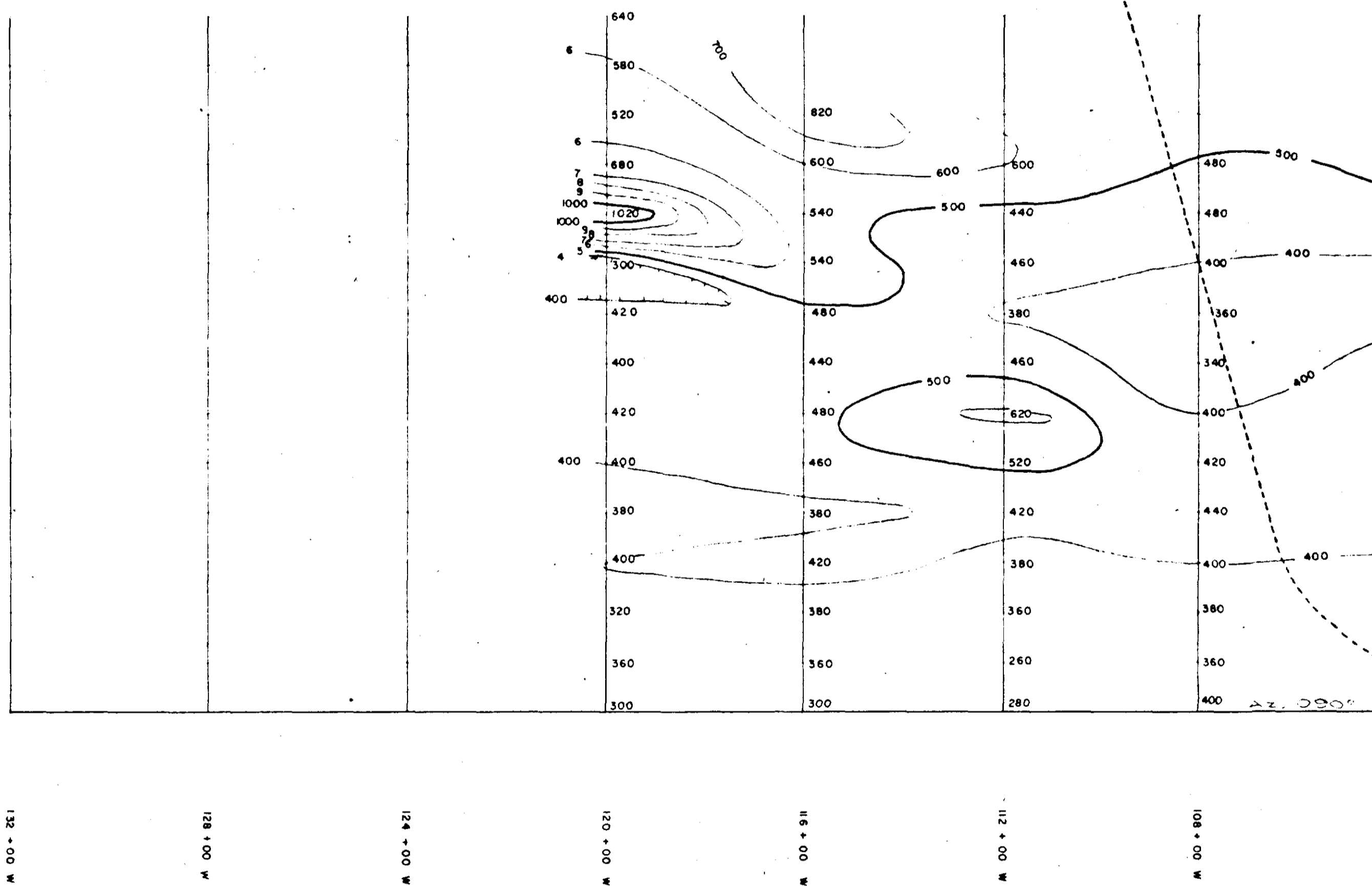
GLASGOW - 0013 6

ALGOMA ORE PROPERTIES LTD.  
 MAGNETOMETER SURVEY  
 ANOMALY 1 & 2

SCALE: 1" = 200'  
 JAN. 31/58



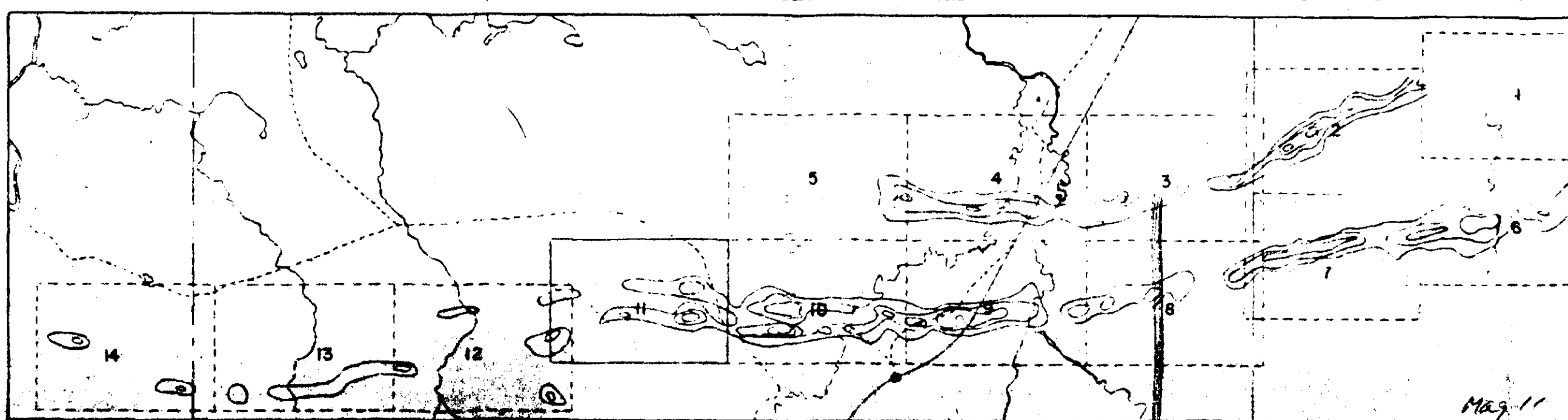




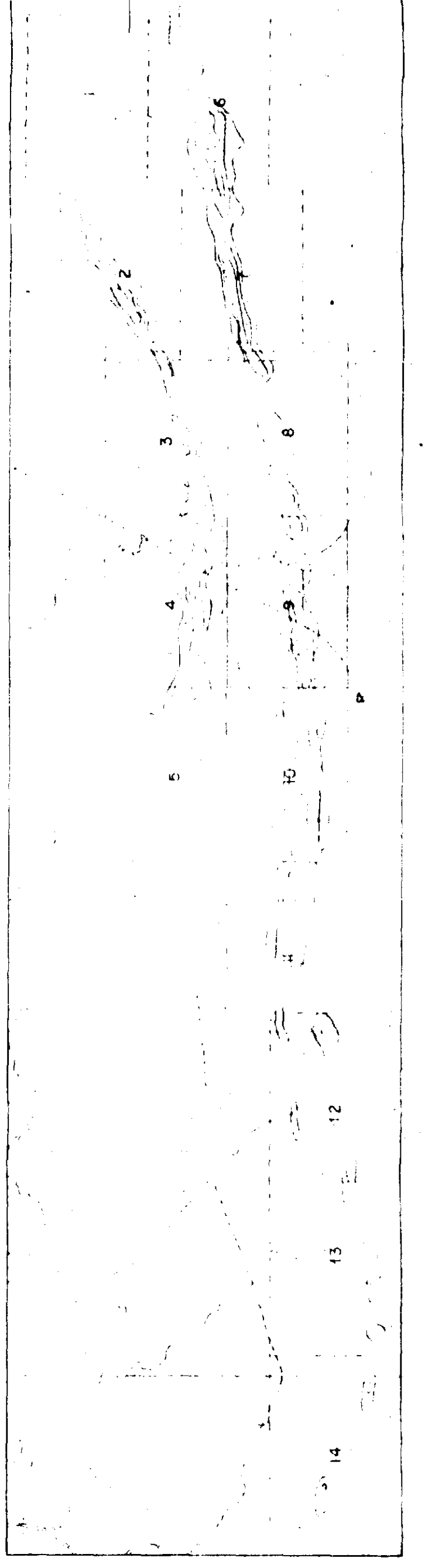
**ALGOMA ORE PROPERTIES LTD.**  
**MAGNETOMETER SURVEY**  
**ANOMALY 1 & 2**

SCALE: 1" = 200'      JAN. 29 / 58.

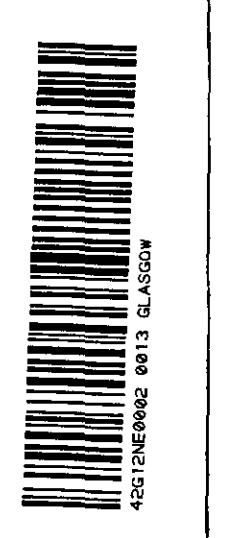
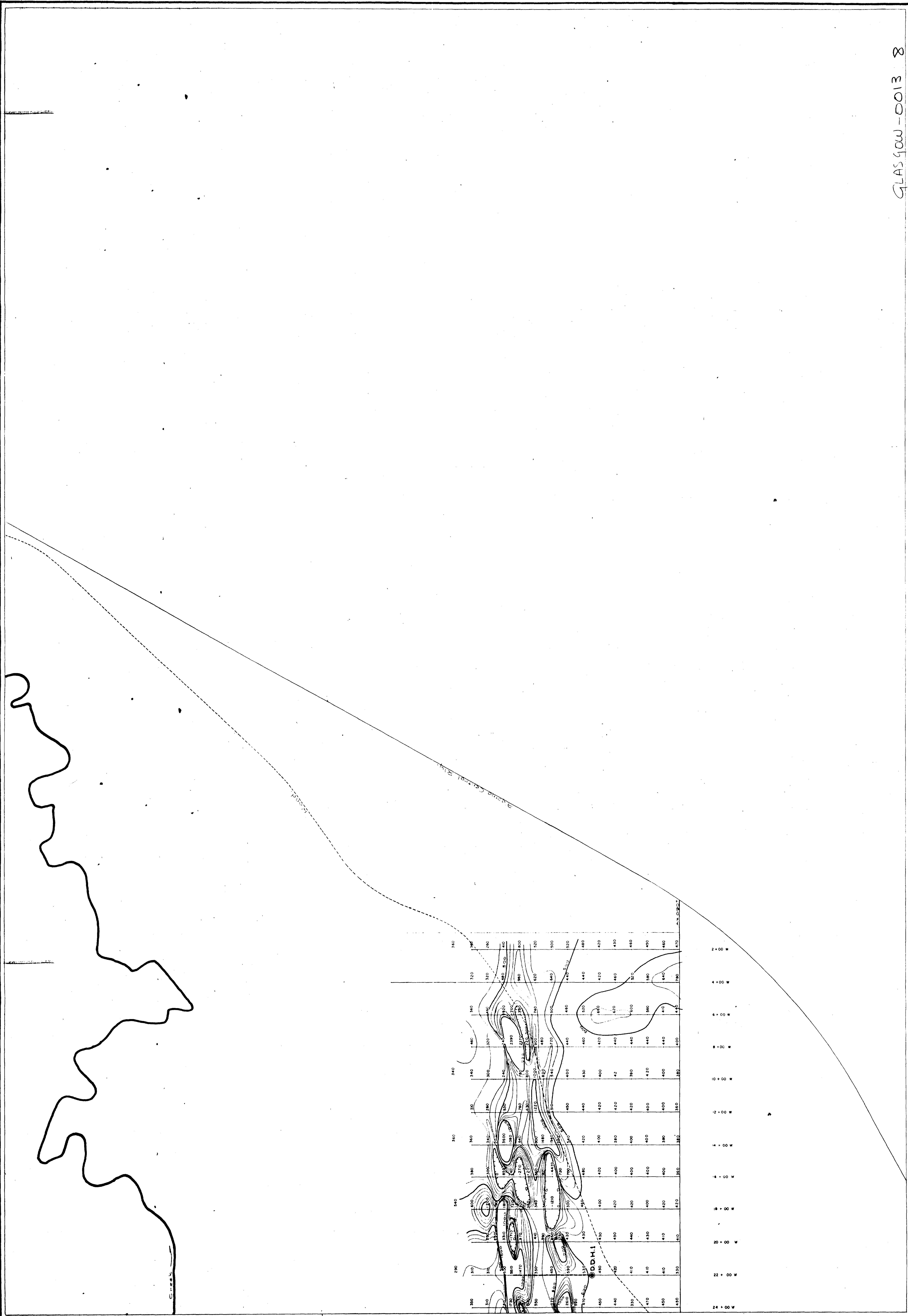
GLASGOW - 0013 7



GLASGOW-0013 8

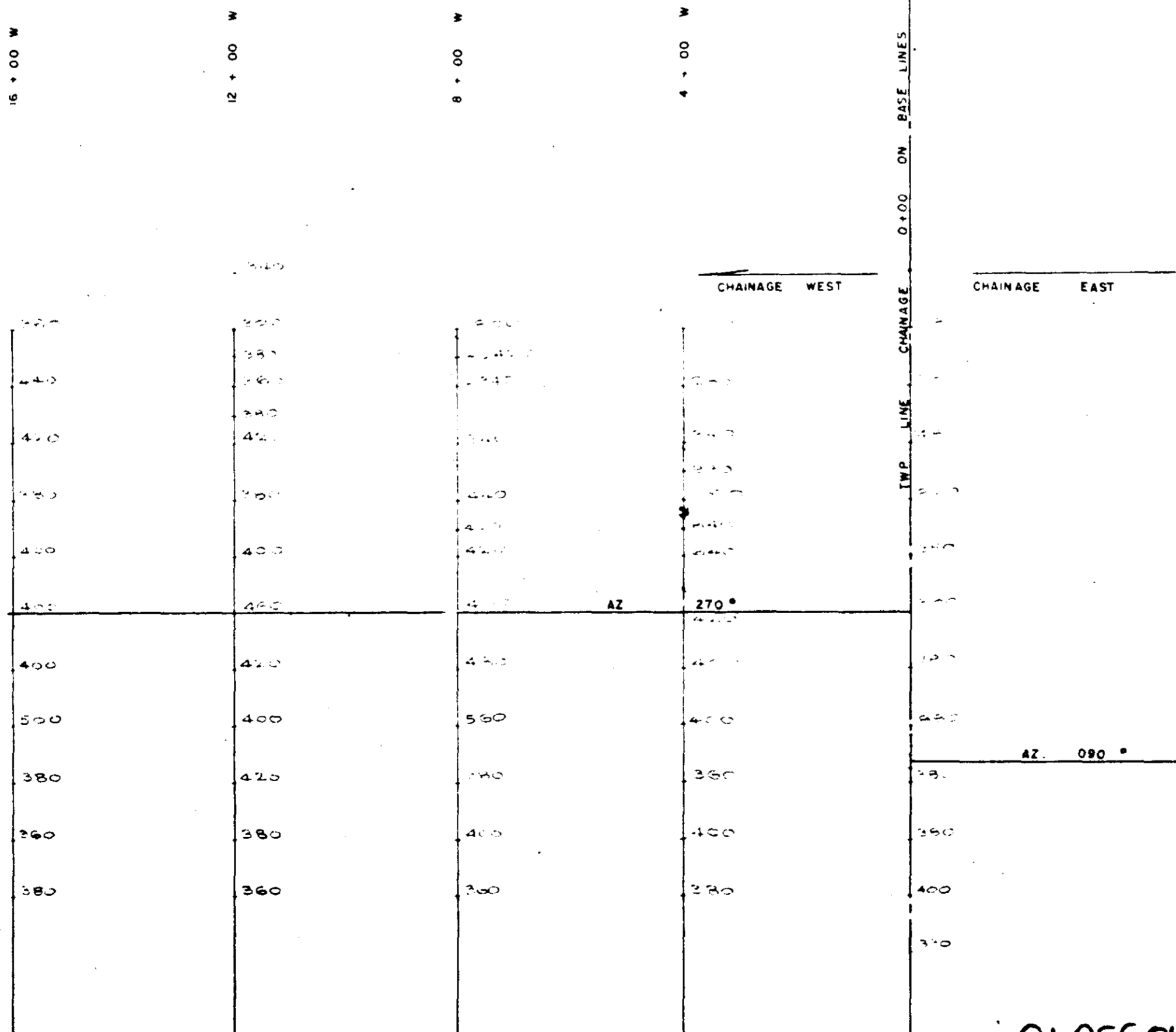


ALGOMA ORE PROPERTIES LTD.  
 MAGNETOMETER SURVEY  
 ANOMALY 1 & 2  
 SCALE: 1" = 200' JAN 29 / 58

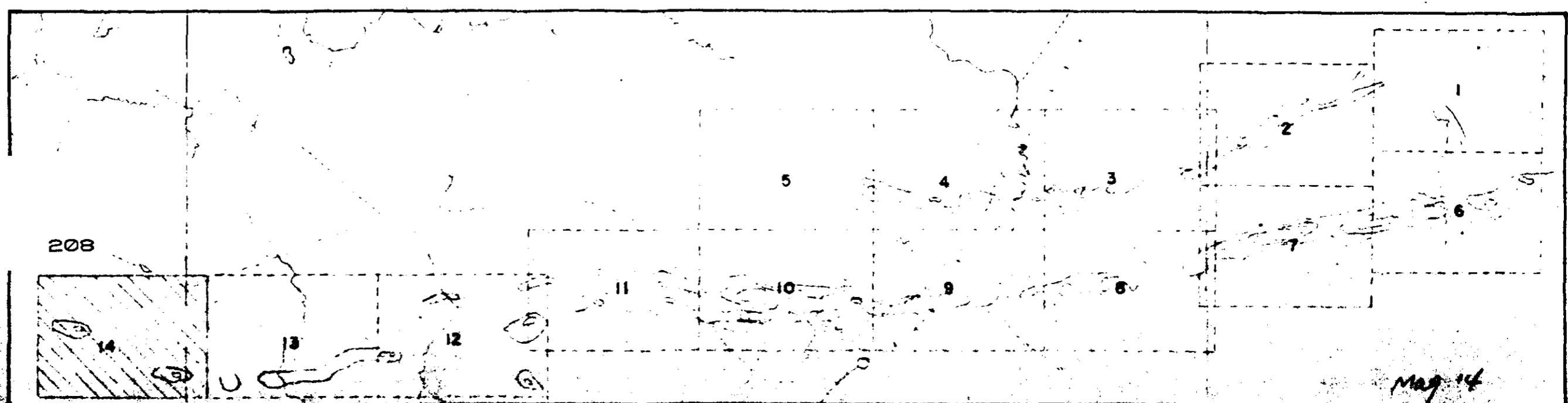


ALGOMA ORE PROPERTIES LTD.  
 MAGNETOMETER SURVEY  
 ANOMALY 1 & 2

SCALE: 1" = 200'      JAN. 31 / 58.



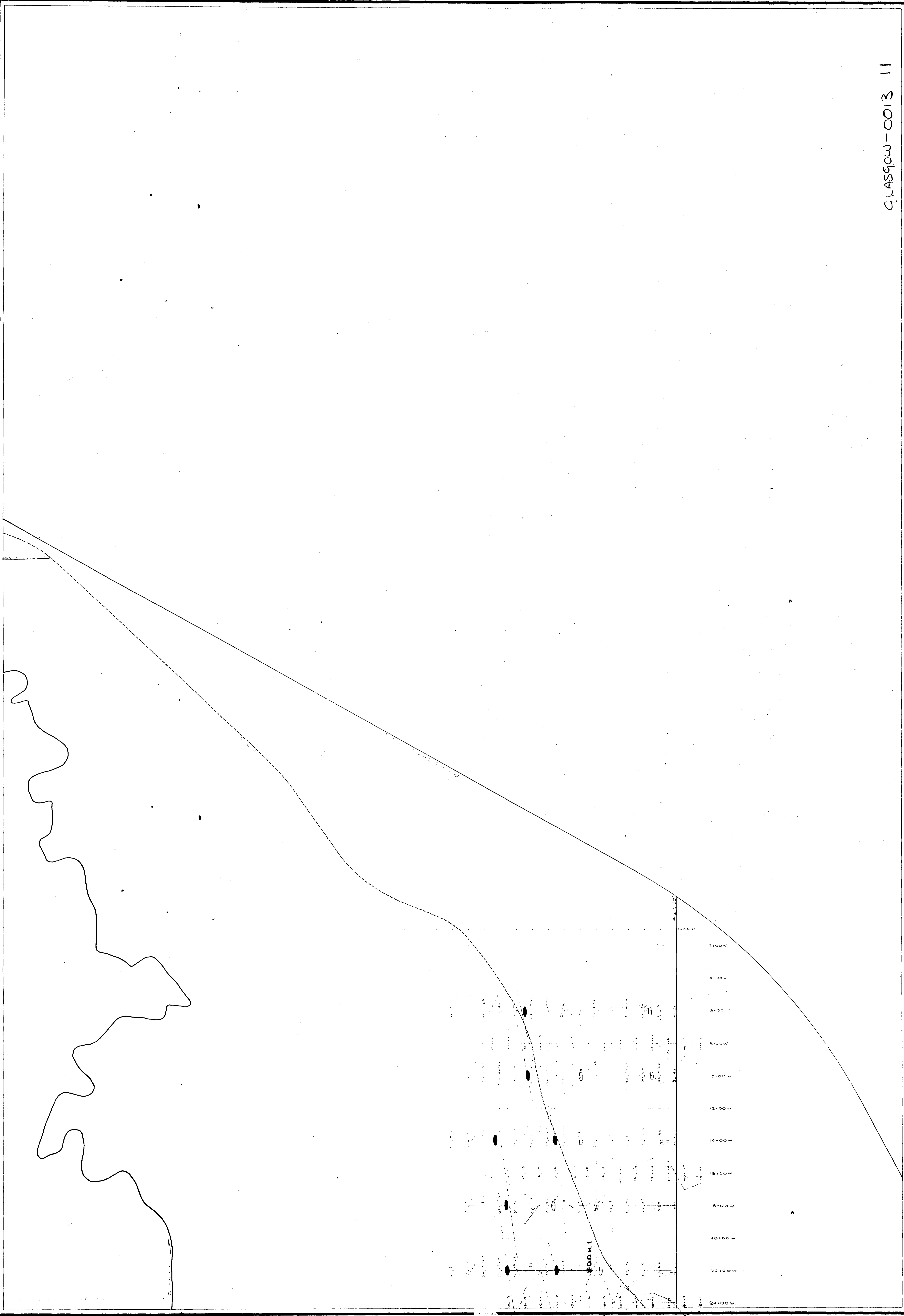
GLASGOW-0013 9



Map 14



GLASGOW-0013 11



**ALGOMA ORE PROPERTIES LTD.**  
**ELECTROMAGNETIC SURVEY**  
**ANOMALY 1-G**  
 TEMPLETON TWP  
 Scale 1:1200 Dec. 15, 1957.

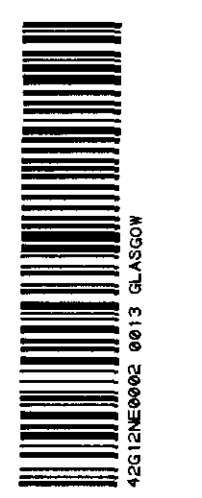
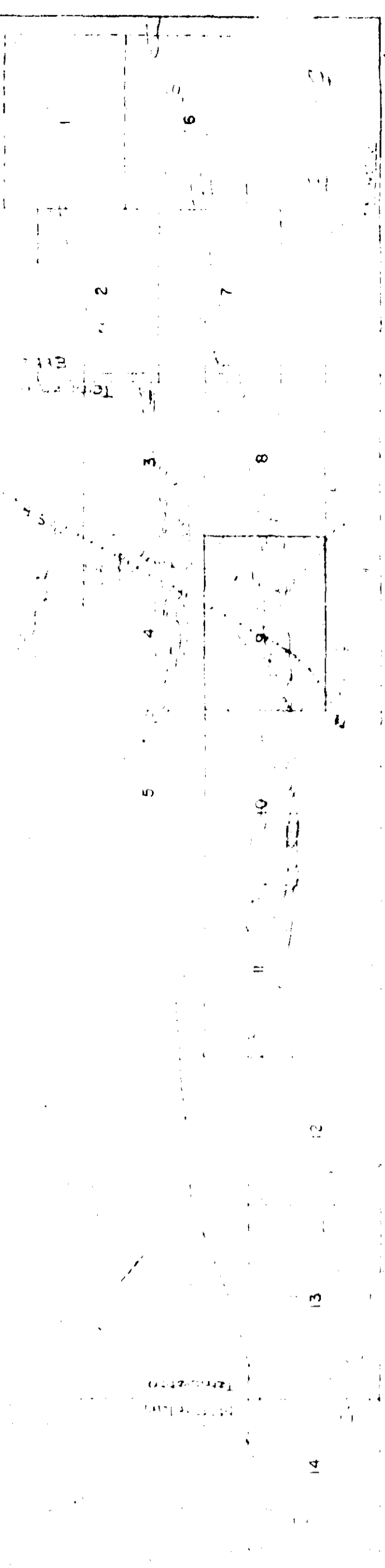
**LEGEND**

ROKKA - (HORIZONTAL)	MC PHAR (VERTICAL)
1000	5000
500	2500
250	1250
125	625
62.5	312.5

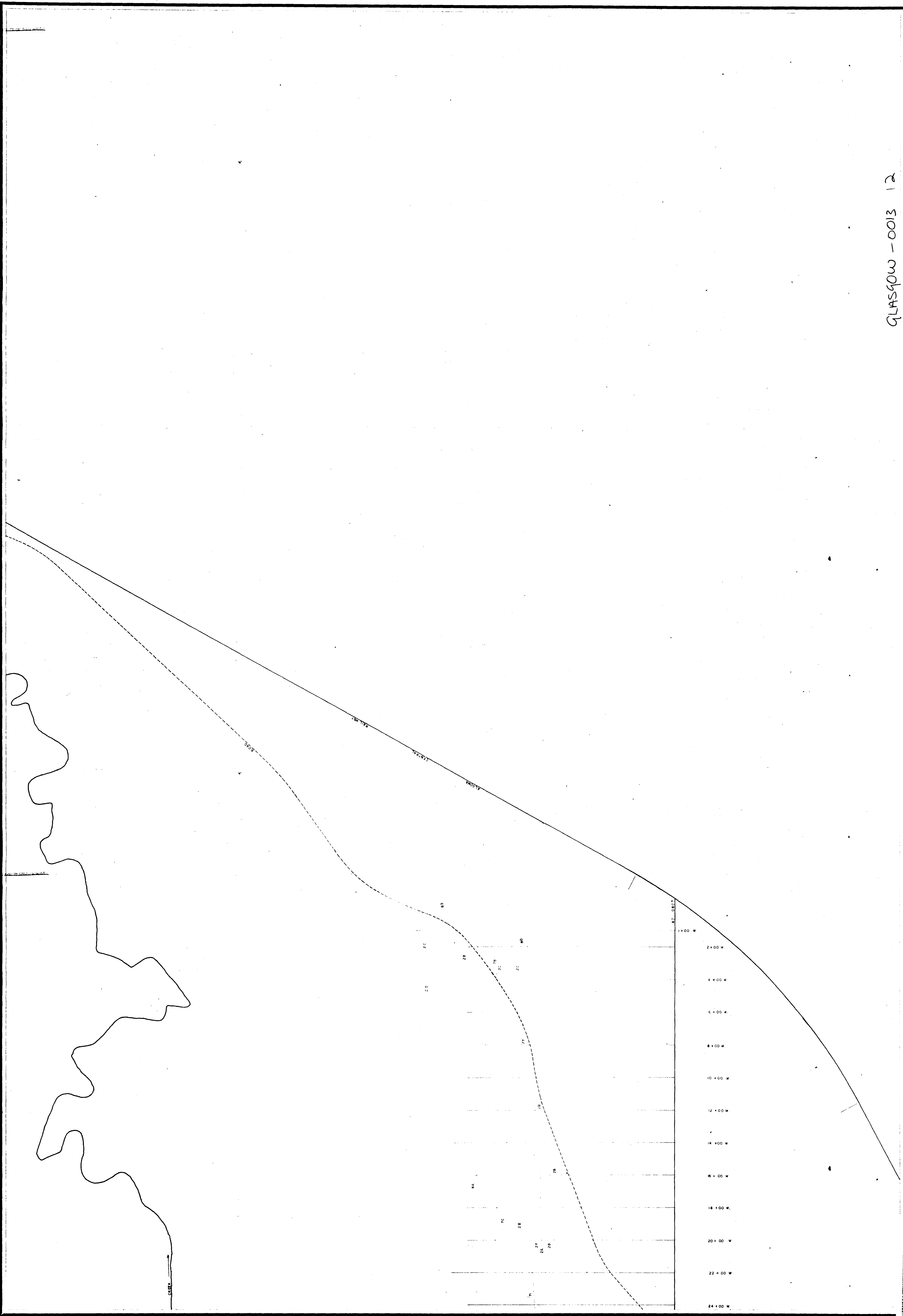
..... IN PHASE      ..... OUT OF PHASE

ROKKA - IN LINE METHOD - 200' SPACING  
 MC PHAR - IN LINE METHOD - 100' SPACING

**SCALE**  
 1" = 1200'



GLASGOW - 0013 12



ALGOMA ORE PROPERTIES LTD.  
EXPLORATION DEPARTMENT

GEOLGY  
ANOMALIES 1 & 2

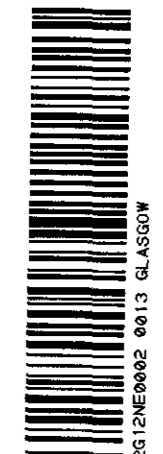
SCALE 1" = 200' JUNE 1956

SYMBOLS

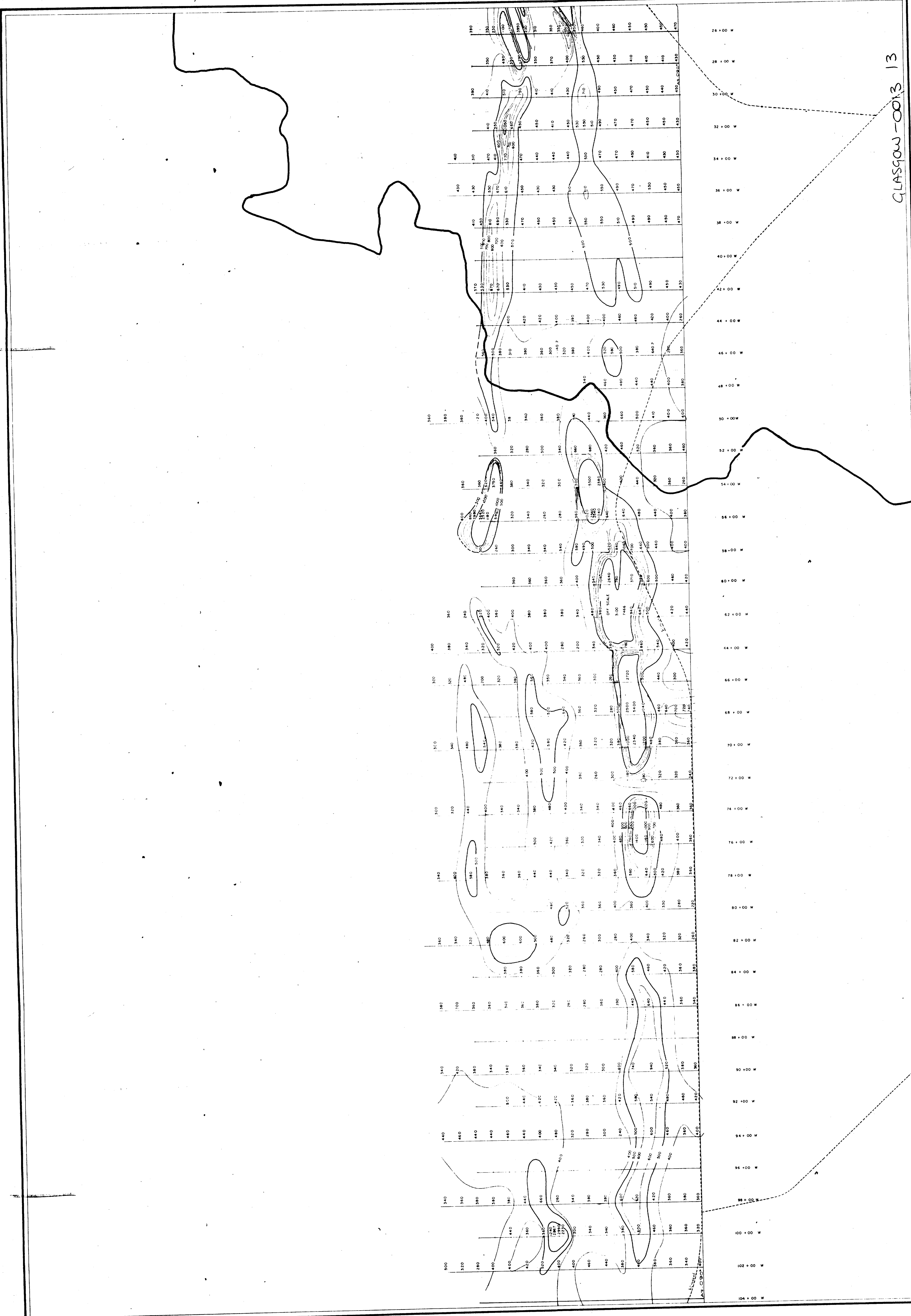
- METAL CONCENTRATION
- ANOMALY
- STRUCTURE, STRIKE AND DIP
- SHEAR ZONE OR FAULT

LEGEND

- MASSIVE - LIGHT
- MASSIVE - MEDIUM
- MASSIVE - DARK
- MASSIVE - BLACK
- MASSIVE - BROWN
- MASSIVE - RED
- MASSIVE - GREEN
- MASSIVE - BLUE
- MASSIVE - PURPLE
- MASSIVE - PINK
- MASSIVE - GREY
- MASSIVE - WHITE
- MASSIVE - YELLOW
- MASSIVE - ORANGE
- MASSIVE - VIOLET
- MASSIVE - BROWN
- MASSIVE - RED
- MASSIVE - GREEN
- MASSIVE - BLUE
- MASSIVE - PURPLE
- MASSIVE - PINK
- MASSIVE - GREY
- MASSIVE - WHITE
- MASSIVE - YELLOW
- MASSIVE - ORANGE
- MASSIVE - VIOLET





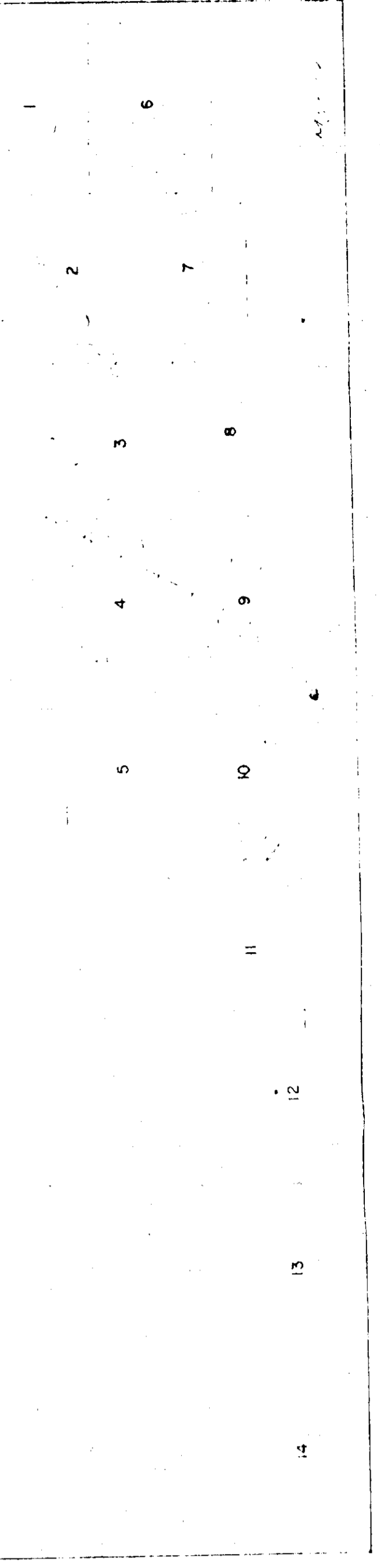


GLASGOW-0013 13

ALGOMA ORE PROPERTIES LTD.  
MAGNETOMETER SURVEY

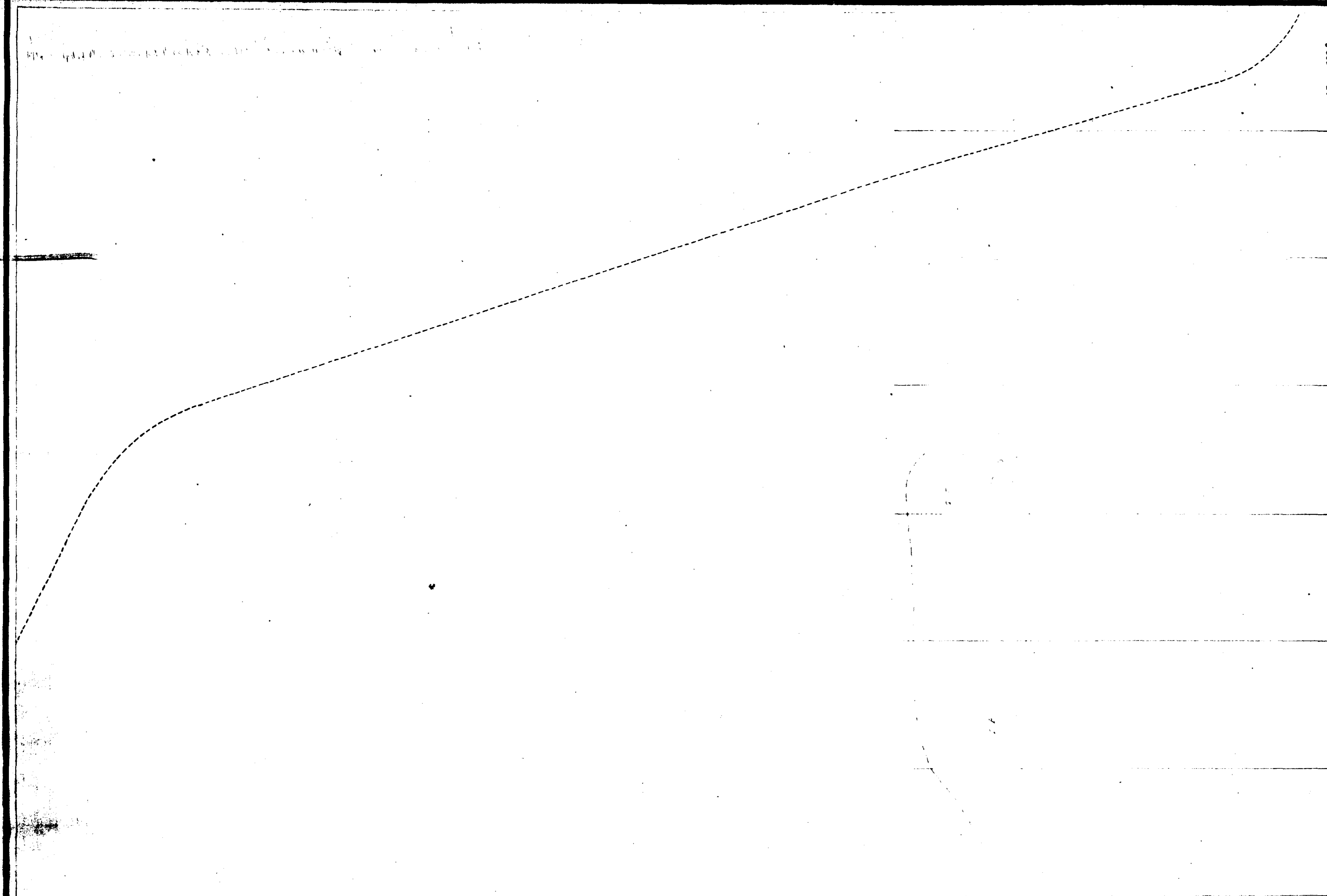
ANOMALY 1 & 2

SCALE 1" = 200' JAN. 29 / 56



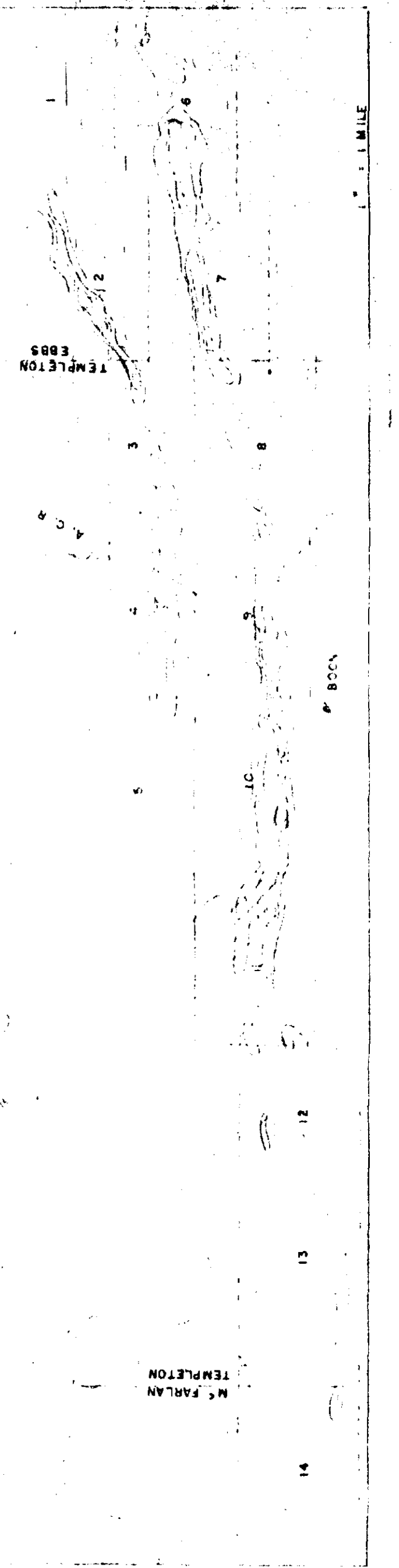




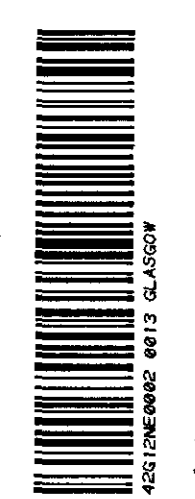


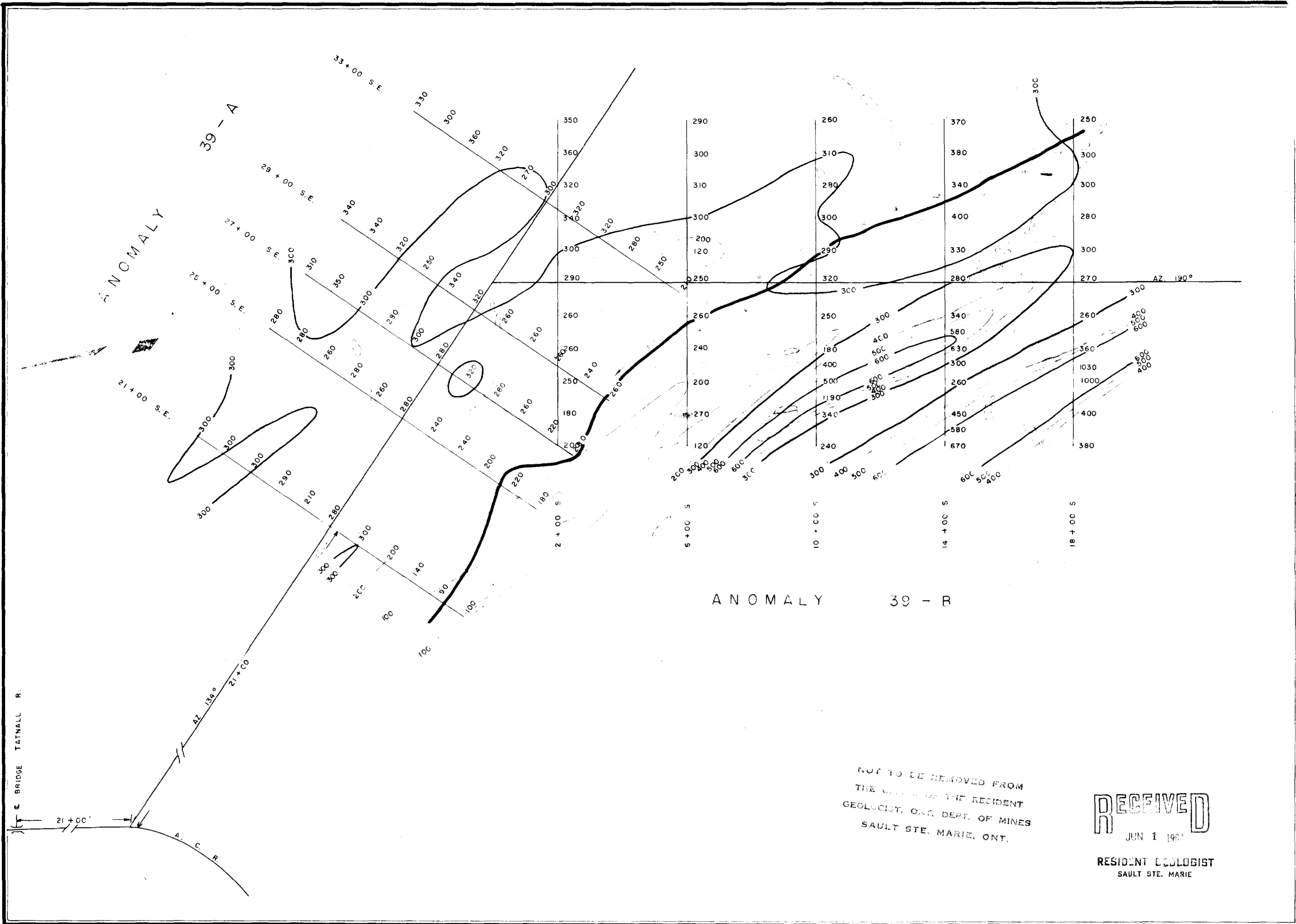
108 + 00 W  
 112 + 00 W  
 116 + 00 W  
 120 + 00 W  
 124 + 00 W  
 128 + 00 W  
 132 + 00 W

GLASGOW - 0013 15



ALGOMA ORE PROPERTIES LTD.  
 EXPLORATION DEPARTMENT  
 GEOLOGY  
 ANOMALIES 1 & 2  
 SCALE 1:200 JUNE 1958





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 SAULT STE. MARIE, ONT.

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 JUN 1 1961

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 SAULT STE. MARIE

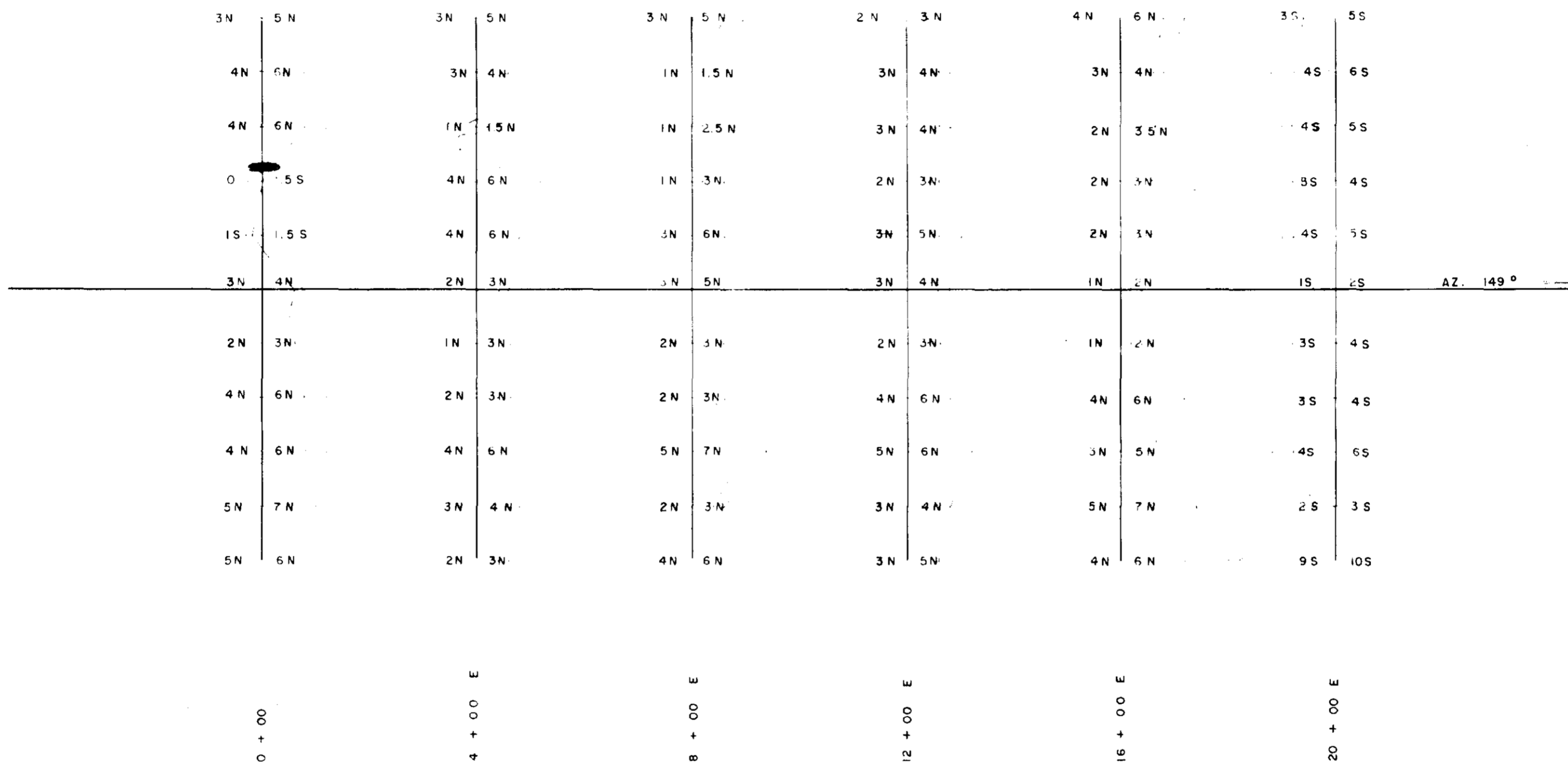
- DIABASE
- GRANITE AND GRANITE PEGMATITE
- SWAMP

ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT  
 BLOCK "C"  
 ANOMALY 39A & 39B  
 MARTIN TWP.  
 MAGNETOMETER SURVEY  
 SCALE 1" = 200' MAY 1958

*Map  
 1-39A, B  
 1-39C*

*Geological # 16*





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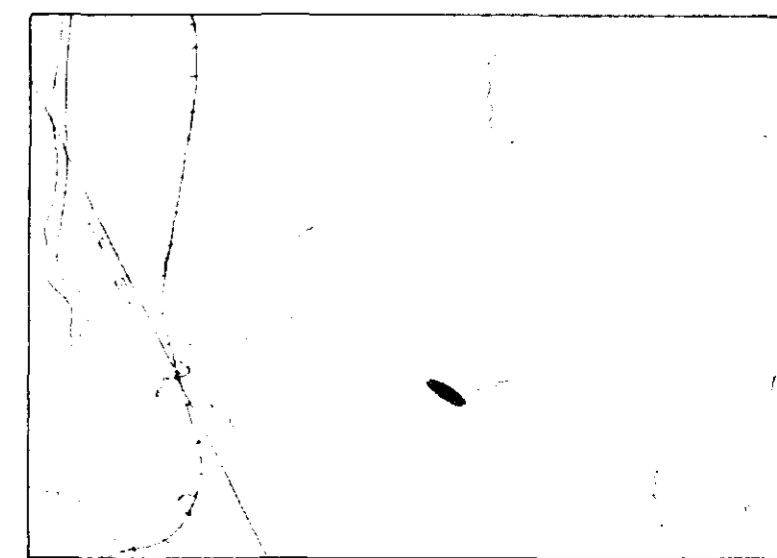
216

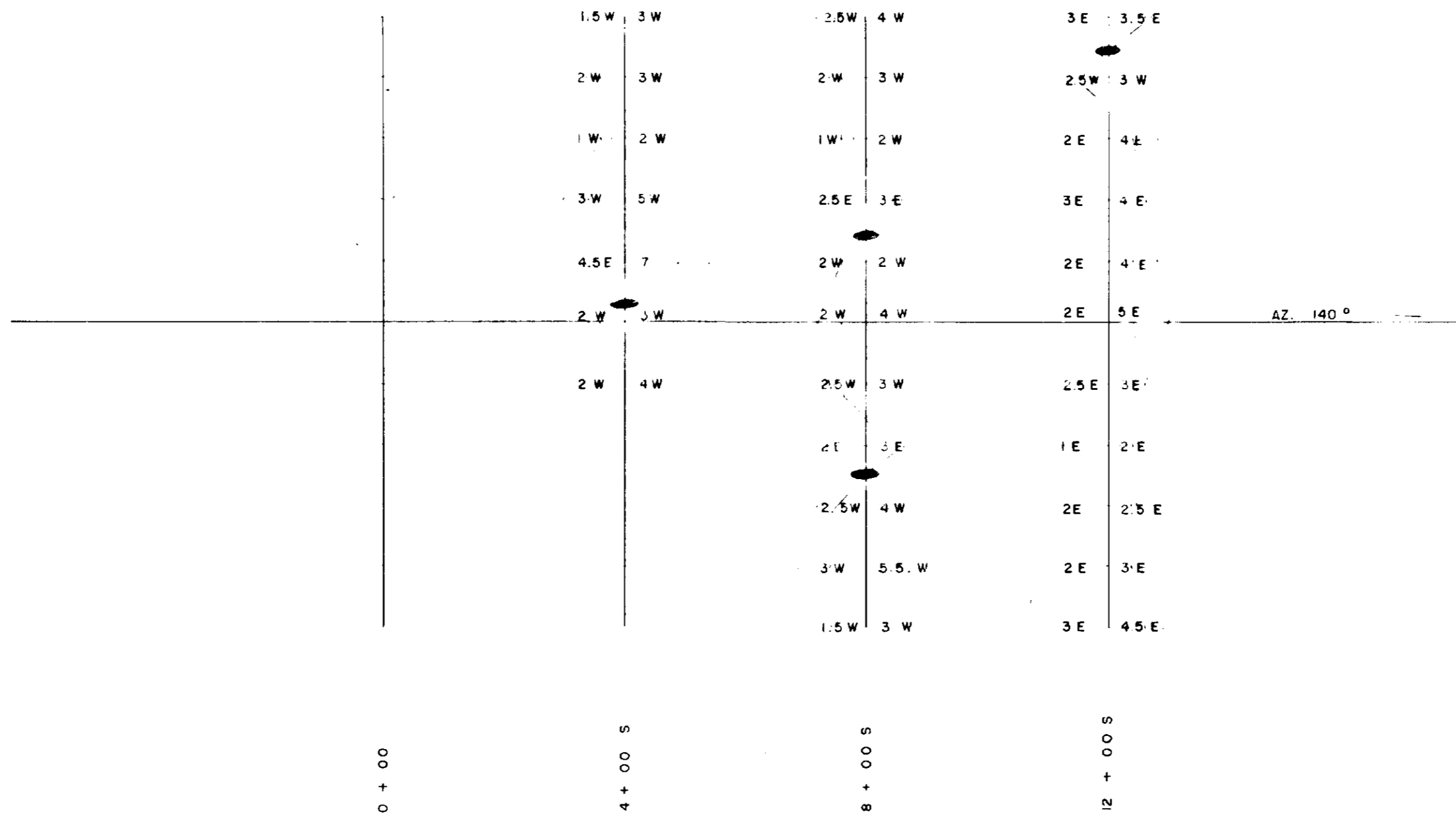
**LEGEND**  
 M<sup>c</sup> PHAR R. E. M.  
 1000 C.P.S. | 5000 C.P.S.  
 ——— 1000 C.P.S.  
 - - - - 5000 C.P.S.  
 ● CONDUCTOR  
 SURVEYED BY BROADSIDE METHOD  
 TRANSMITTER 400' EAST OF RECEIVER  
 TRANSMITTER 400' WEST OF RECEIVER ON LINE 20+00

ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT  
**BLOCK "C"**  
 ANOMALY 38  
 MARTIN TWP  
 ELECTROMAGNETIC SURVEY

SCALE 1" = 200' MAY 1968

*EM.*  
*A. 38.*  
*1000'*  
*GLASGOW CE 13 #17*





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 SAULT STE. MARIE

**LEGEND**  
 M<sup>c</sup> PHAR R. E. M.  
 1000 C.P.S. | 5000 C.P.S.  
 ——— 1000 C.P.S.  
 - - - - 5000 C.P.S.  
 ● CONDUCTOR

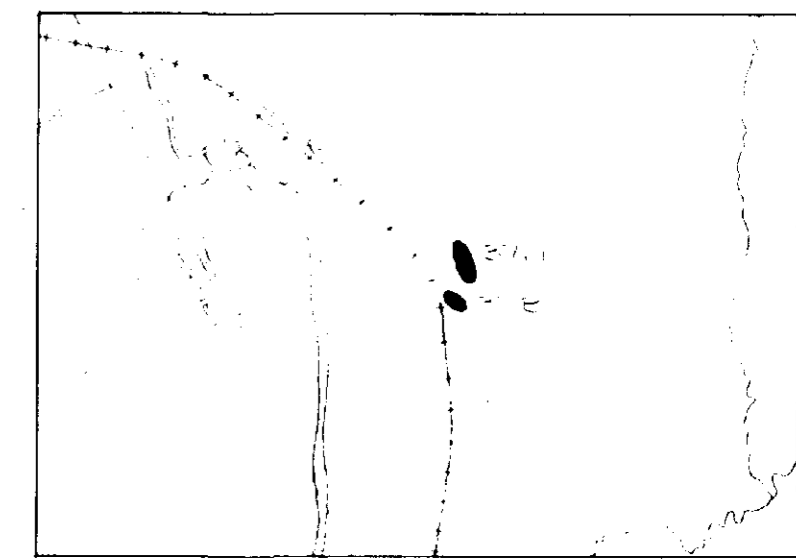
SURVEYED BY ROADSIDE METHOD

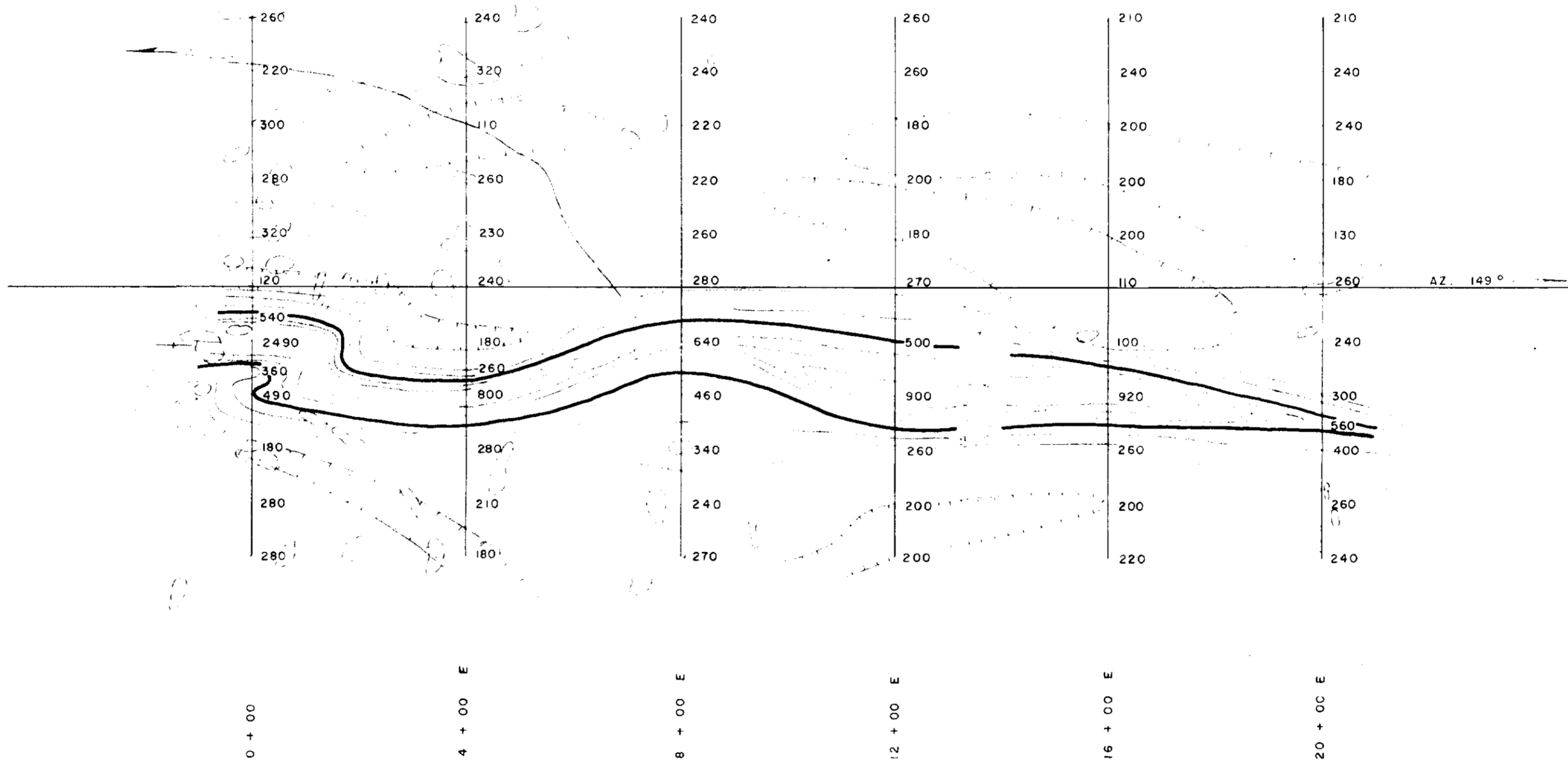


ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT  
**BLOCK "C"**  
 ANOMALY 37-B  
 MARTIN TWP.  
 ELECTROMAGNETIC SURVEY  
 SCALE 1" = 200' MAY 1958

*E.M.*  
*A. 37B.*  
*1/200'*

*GLASGOW COB 41A*





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SAULT STE. MARIE, ONT.

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SAULT STE. MARIE

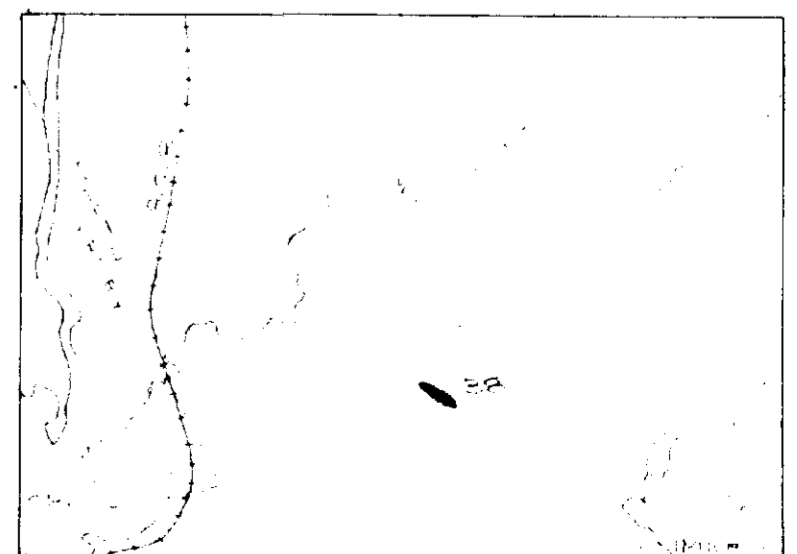
ALGOMA ORE PROPERTIES LIMITED  
EXPLORATION DEPARTMENT  
BLOCK "C"

ANOMALY 38  
MARTIN TWP

MAGNETOMETER SURVEY

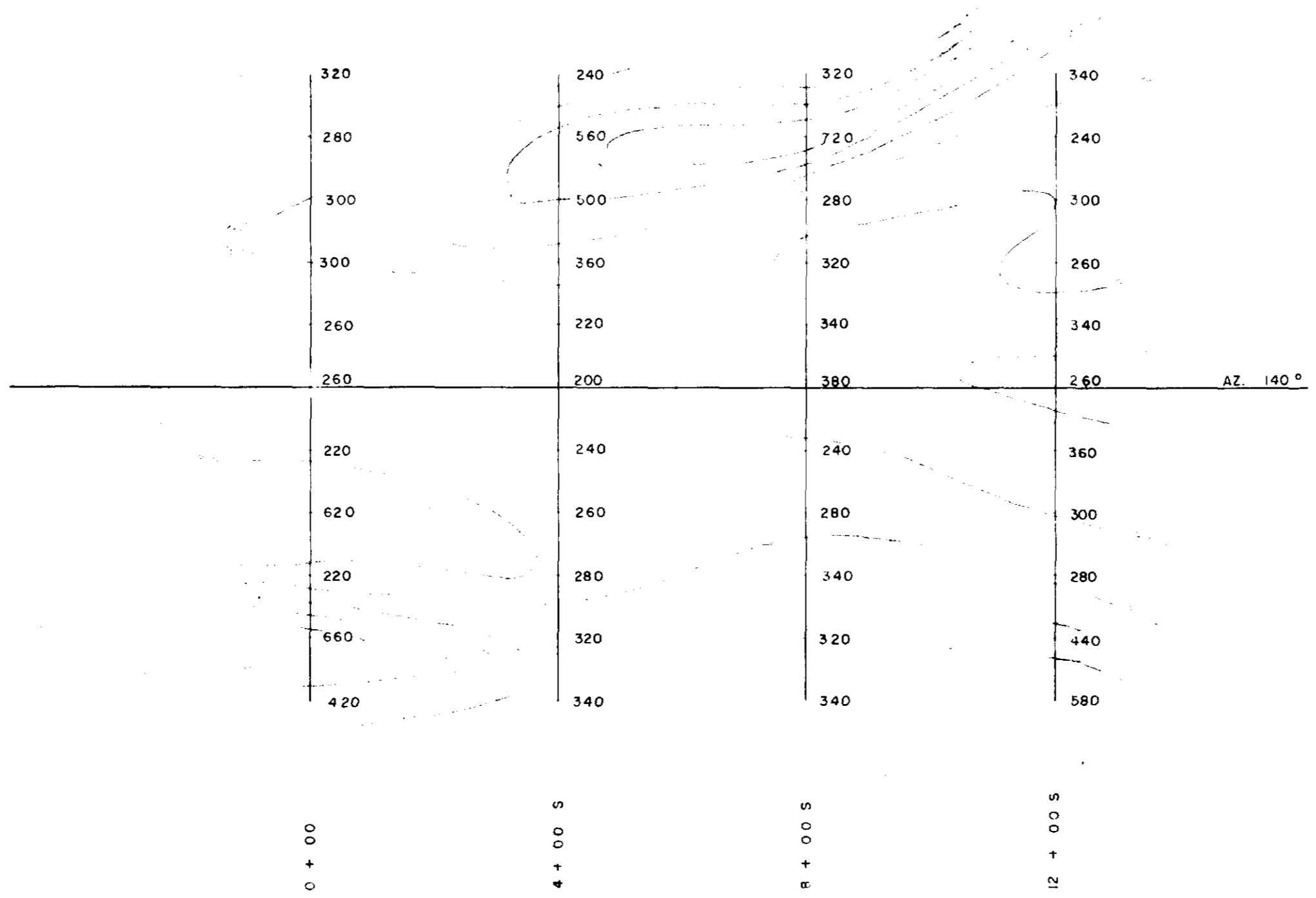
SCALE 1" = 200' MAY 1958

*Map  
A. 38  
1958*



*GLASGOW 0013 #19*





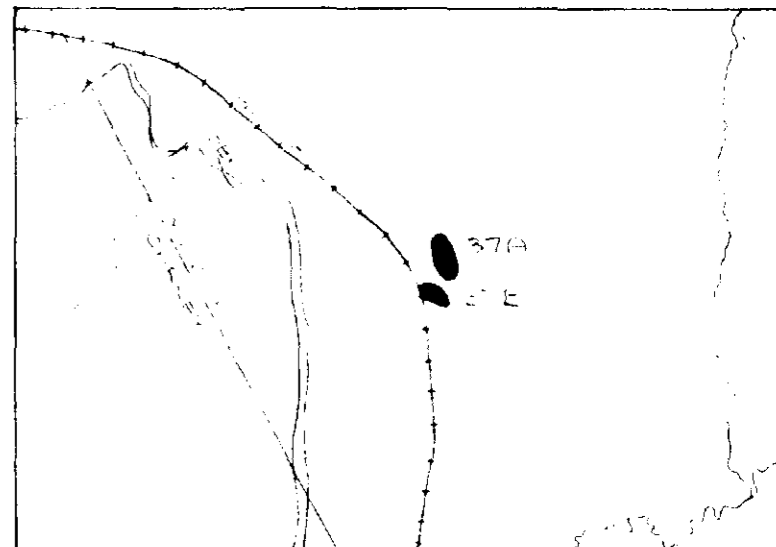
**RECEIVED**  
 JUN 1 1958  
 RESIDENT GEOLOGIST  
 SAULT STE. MARIE

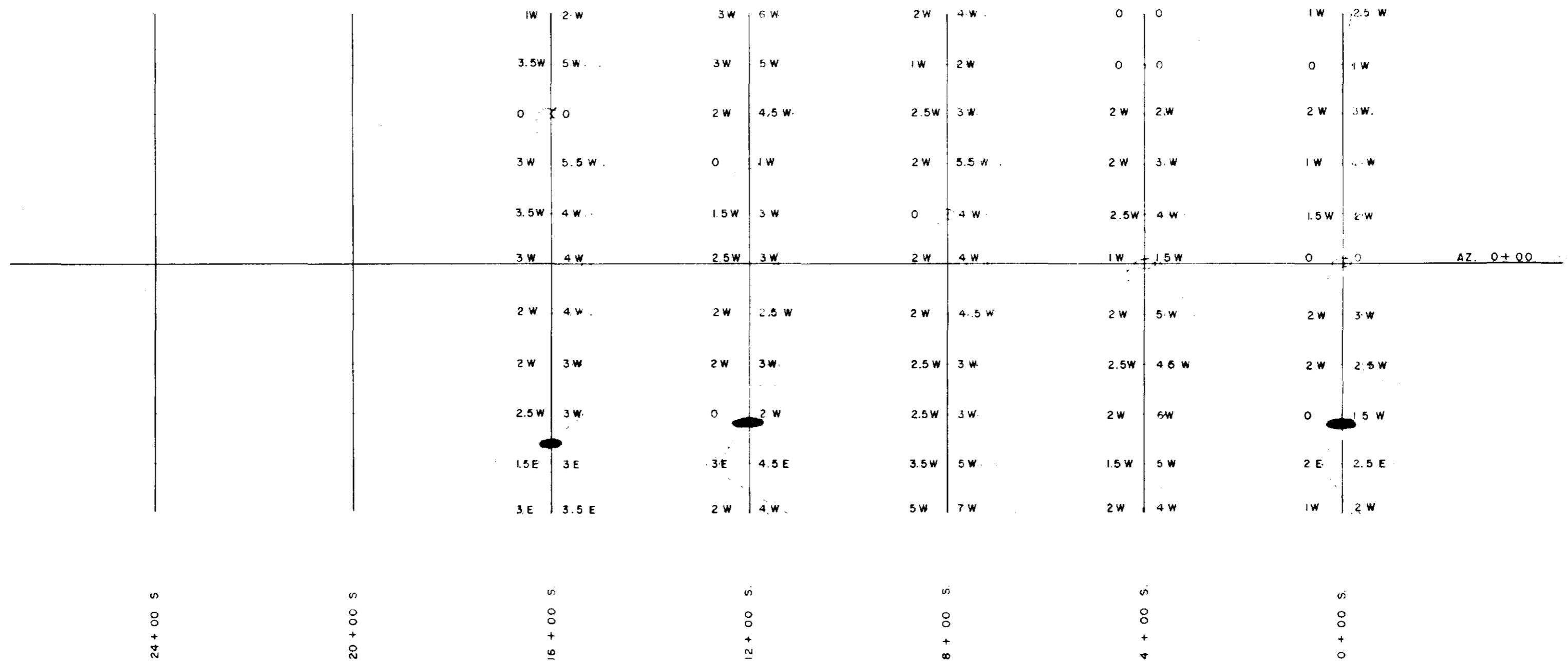
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 GEOLOGIST, MIN. DEPT. OF MINES  
 SAULT STE. MARIE, ONT.

ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT  
**BLOCK "C"**  
 ANOMALY 37-B  
 MARTIN TWP  
 MAGNETOMETER SURVEY  
 SCALE 1" = 200' MAY 1958

*M 26.*  
*11 315*  
*1 210*

*GLASGOW .0013 1120*





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SAULT STE. MARIE, ONT.

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SAULT STE. MARIE



220

**LEGEND**  
M<sup>c</sup> PHAR R. E. M.

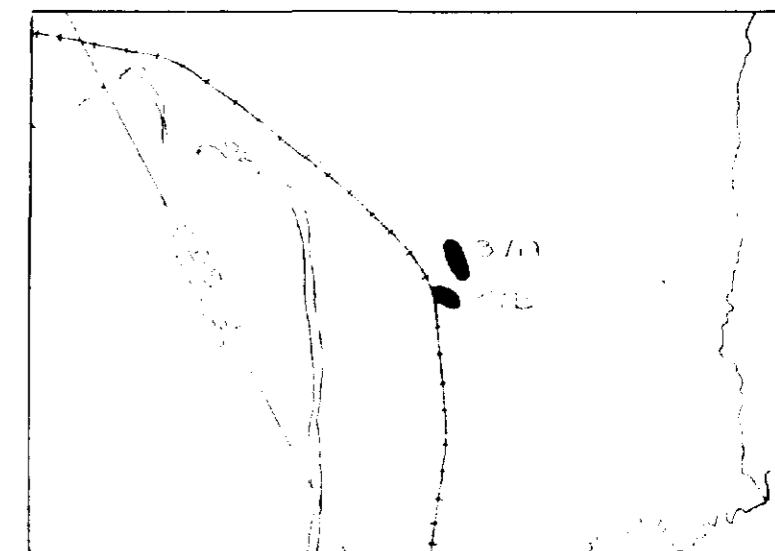
1000 CPS	5000 CPS
1000 C.P.S.  
----- | -----  
5000 C.P.S.  
● CONDUCTOR

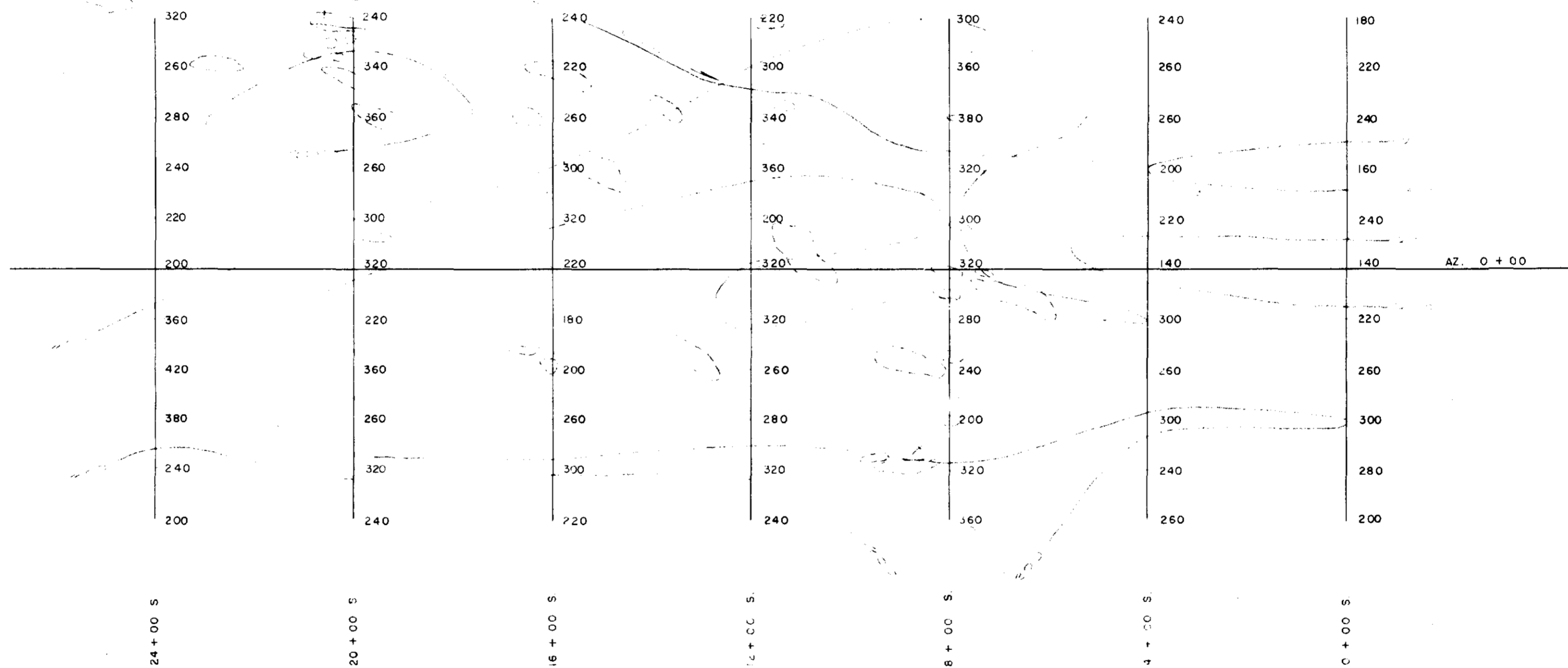
SURVEYED BY BROADSIDE METHOD  
TRANSMITTER 400' SOUTH OF RECEIVER

ALGOMA ORE PROPERTIES LIMITED  
EXPLORATION DEPARTMENT  
**BLOCK "C"**  
ANOMALY 37-A  
MARTIN TWP.  
ELECTROMAGNETIC SURVEY

SCALE 1" = 200' MAY 1958

*GLASGOW CO. 13 1121*





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GEOLOGIST, ONT. DEPT. OF MINES  
SAULT STE. MARIE, ONT.

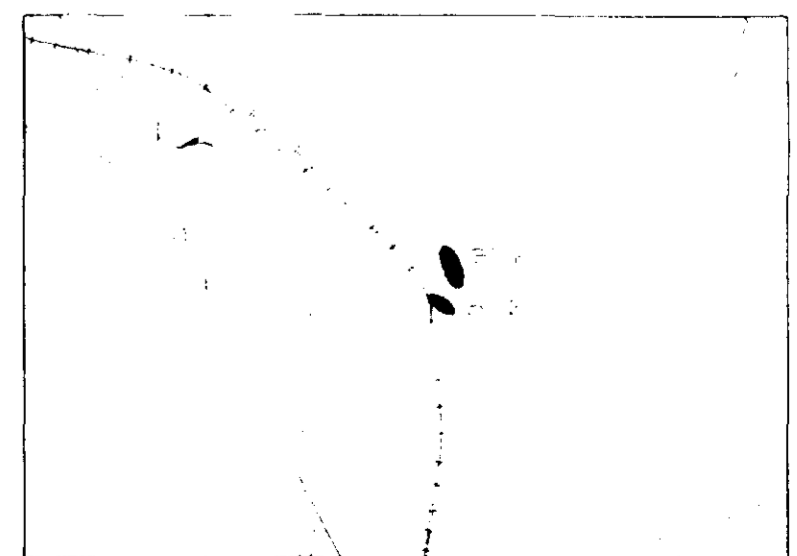
**RECEIVED**  
JUN 1 1964

RESIDENT GEOLOGIST  
SAULT STE. MARIE

ALGOMA ORE PROPERTIES LIMITED  
EXPLORATION DEPARTMENT  
**BLOCK "C"**  
ANOMALY 37-A  
MARTIN TWP.

MAGNETOMETER SURVEY  
SCALE 1" = 200' MAY 1958

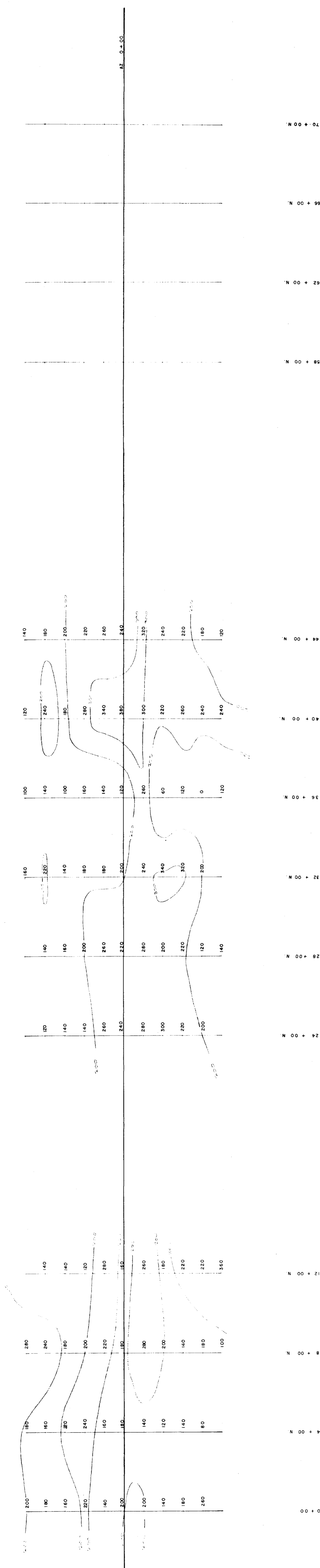
*Map  
A 37A*



*GLASGOW 0013-22*







ANOMALY 36 - C

ANOMALY 36 - B

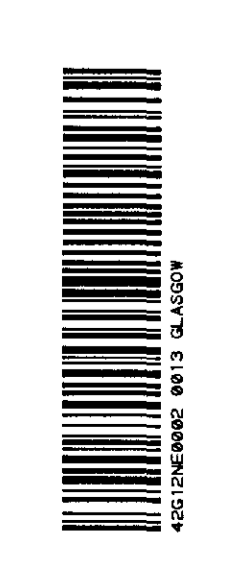
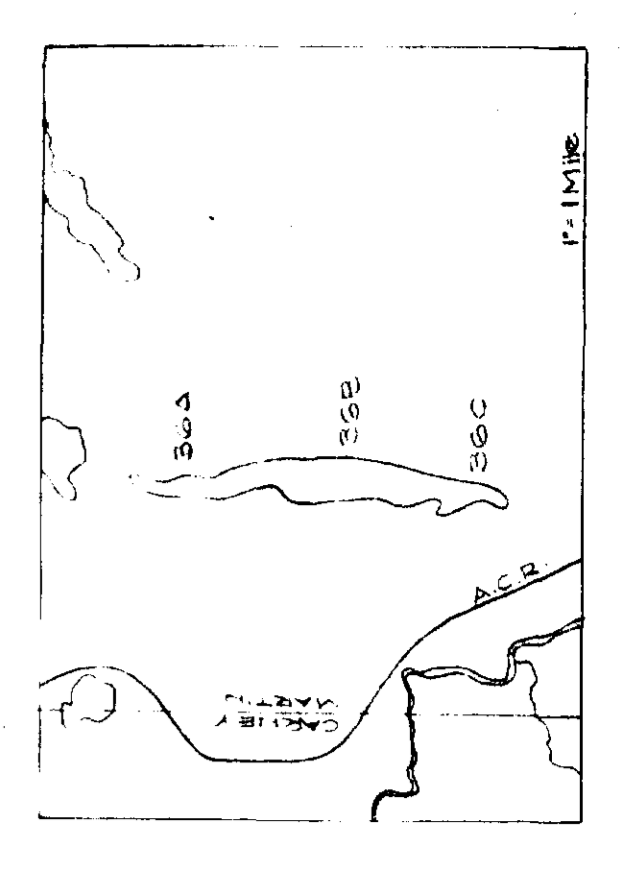
ANOMALY 36 - A

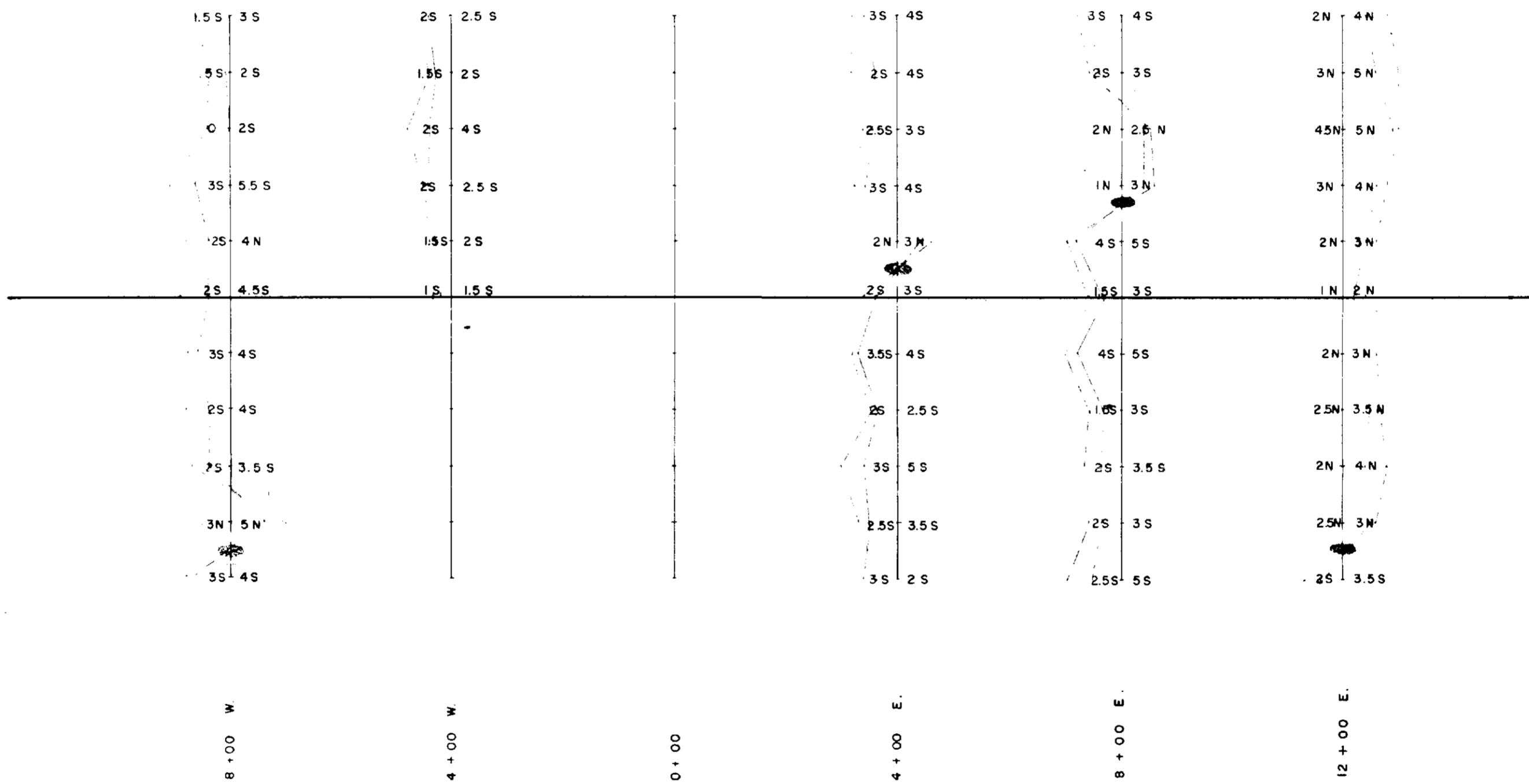
NOT TO BE REPRODUCED FROM  
THE OFFICE OF THE RESIDENT  
GEOLOGIST, ONT. DEPT. OF MINES  
SAULT STE. MARIE, ONT.

**RECEIVED**  
JUN 1 1981  
RESIDENT GEOLOGIST  
SAULT STE. MARIE

MAG.  
A. 36A, B, C  
1" = 200'  
C-46602 0013 #23

ALGOMA ORE PROPERTIES LTD.  
EXPLORATION DEPARTMENT  
BLOCK "C"  
ANOMALY 36-A-B-C  
MAGNETOMETER SURVEY  
SCALE 1" = 200' MAY 1980





NOT TO BE REMOVED FROM  
THE OFFICE OF THE RESIDENT  
GEOLOGIST, ONT. DEPT. OF MINES  
SAULT STE. MARIE, ONT.

**RECEIVED**  
JUN 1 1964  
RESIDENT GEOLOGIST  
SAULT STE. MARIE

**LEGEND**  
M<sup>c</sup> PHAR R. E. M.

- 1000 C.P.S. | 5000 C.P.S.
- 1000 C.P.S.
- - - 5000 C.P.S.
- CONDUCTOR

SURVEYED BY BROADSIDE METHOD



ALGOMA ORE PROPERTIES LIMITED  
EXPLORATION DEPARTMENT

**BLOCK "C"**

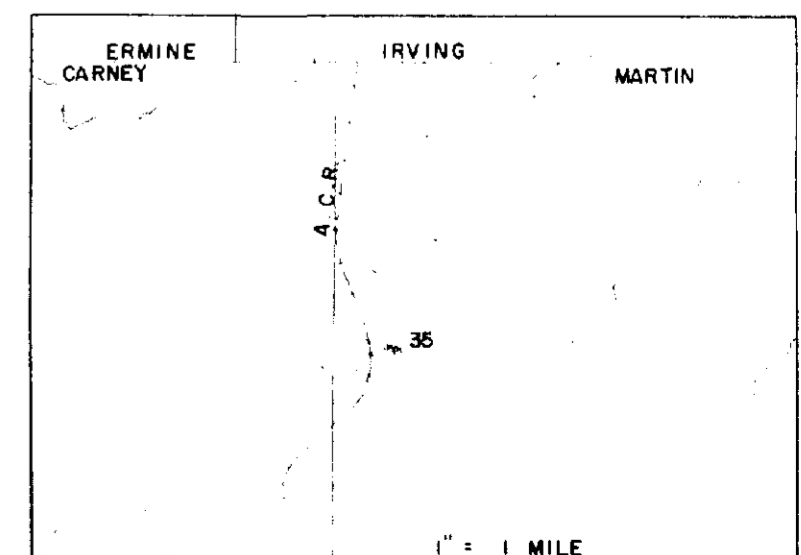
ANOMALY NO. 35  
MARTIN TWP.

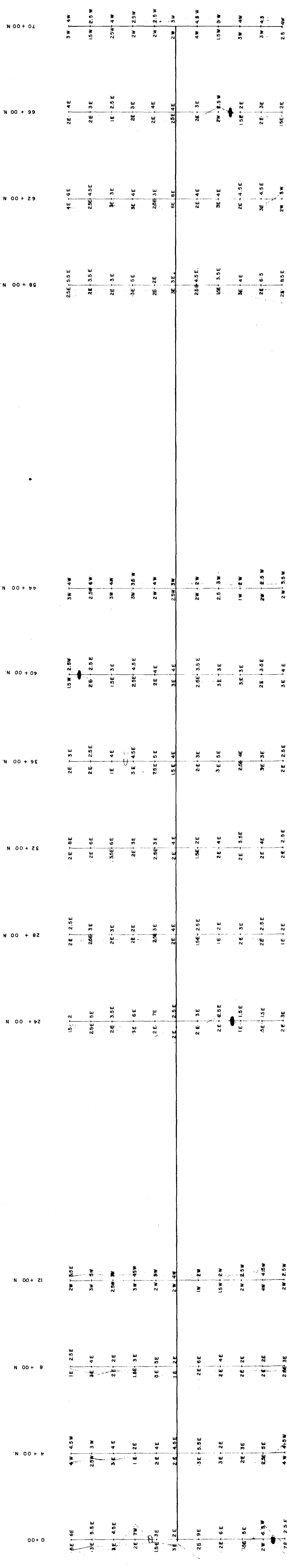
ELECTROMAGNETIC SURVEY

SCALE 1" = 200' JULY 1958

*E.M.*  
*A. 35*  
*1-2-58*

*GLASGOW 0013 #24*



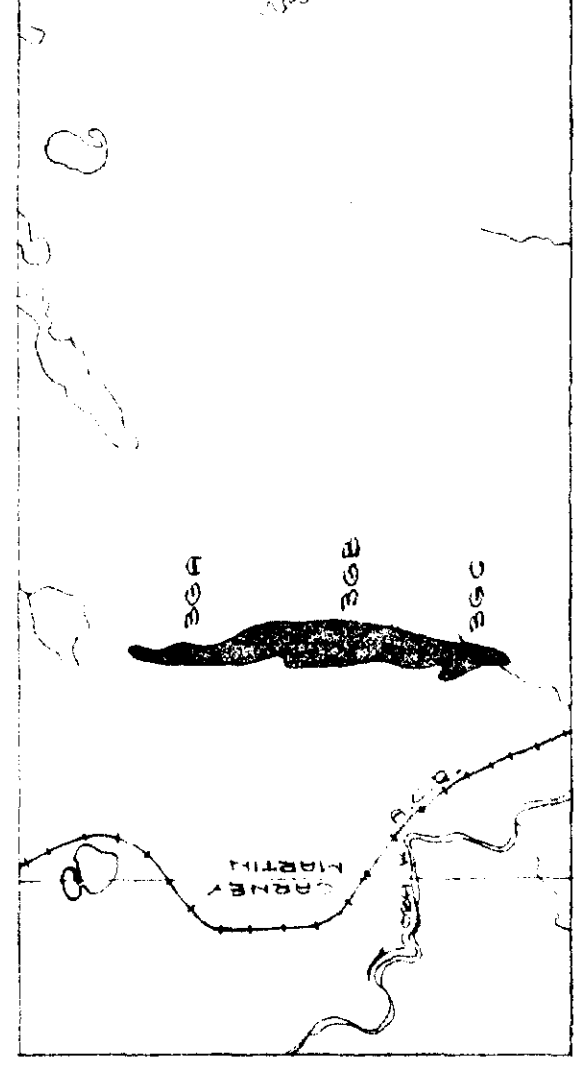


36 A

36 B

36 C

E.M.  
 A. 36 A, B, C  
 1" = 200'



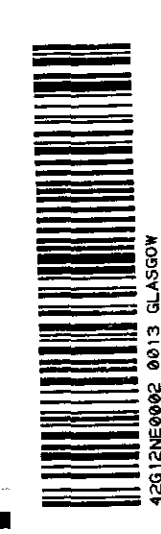
**RECORDED**  
 JUN 1 1951  
 RESIDENT GEOLOGIST  
 BRITISH PETROLEUM

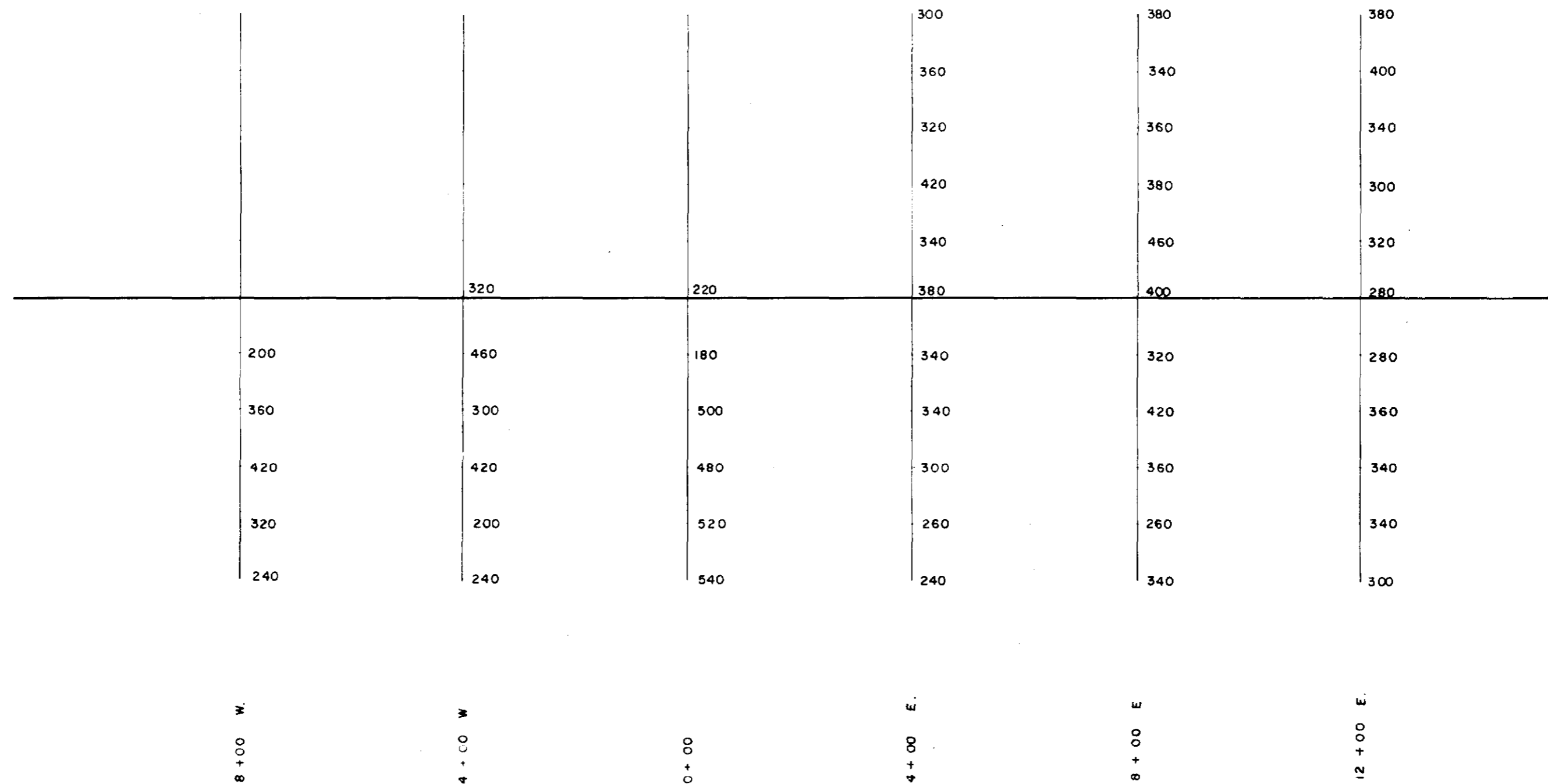
NOT TO BE REMOVED FROM  
 THE OFFICE OF THE RESIDENT  
 GEOLOGIST, BRITISH PETROLEUM  
 100, WATERLOO STREET, LONDON, W.C.2

ALGOMA ORE PROPERTIES LTD.  
 EXPLORATION DEPARTMENT  
 BLOCK "C"  
 ANOMALY 36-A-B-C  
 MARTIN TWP.  
 ELECTROMAGNETIC SURVEY  
 SCALE 1" = 200' MAY 1950

NOT TO BE REMOVED FROM  
 THE OFFICE OF THE RESIDENT  
 GEOLOGIST, BRITISH PETROLEUM  
 100, WATERLOO STREET, LONDON, W.C.2

LEGEND  
 M.F. PHAR. R.E.M.  
 --- 5000 C.P.S.  
 --- 1000 C.P.S.  
 --- CONDUCTOR  
 SURVEYED BY BRITISH PETROLEUM METHOD  
 TRANSMITTER 400' NORTH OF RECEIVER ON LINES 4000-4600  
 TRANSMITTER 400' SOUTH OF RECEIVER ON LINES 2000-2600





NOT TO BE REMOVED FROM  
THE OFFICE OF THE RESIDENT  
GEOLOGIST, ONT. DEPT. OF MINES  
SAULT STE. MARIE, ONT.

**RECEIVED**  
JUN 1 1964

RESIDENT GEOLOGIST  
SAULT STE. MARIE

ALGOMA ORE PROPERTIES LIMITED  
EXPLORATION DEPARTMENT

**BLOCK "C"**

ANOMALY NO. 35  
MARTIN TWP

MAGNETOMETER SURVEY

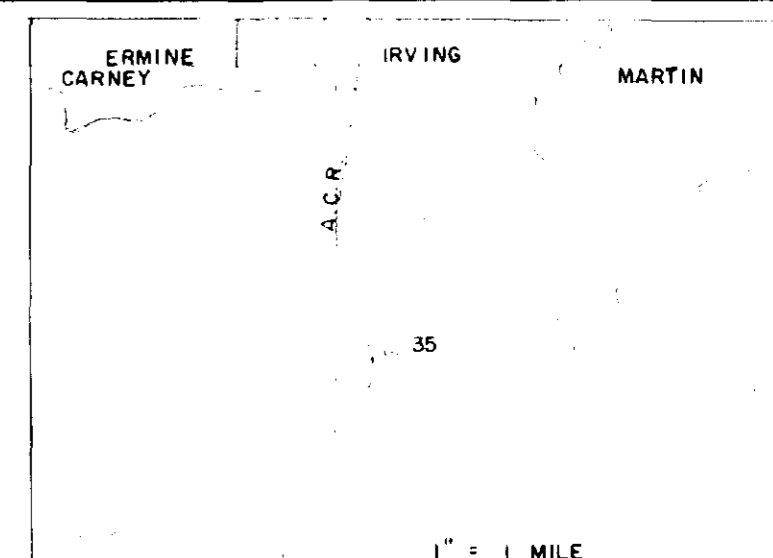
SCALE 1" = 200' JULY 1958

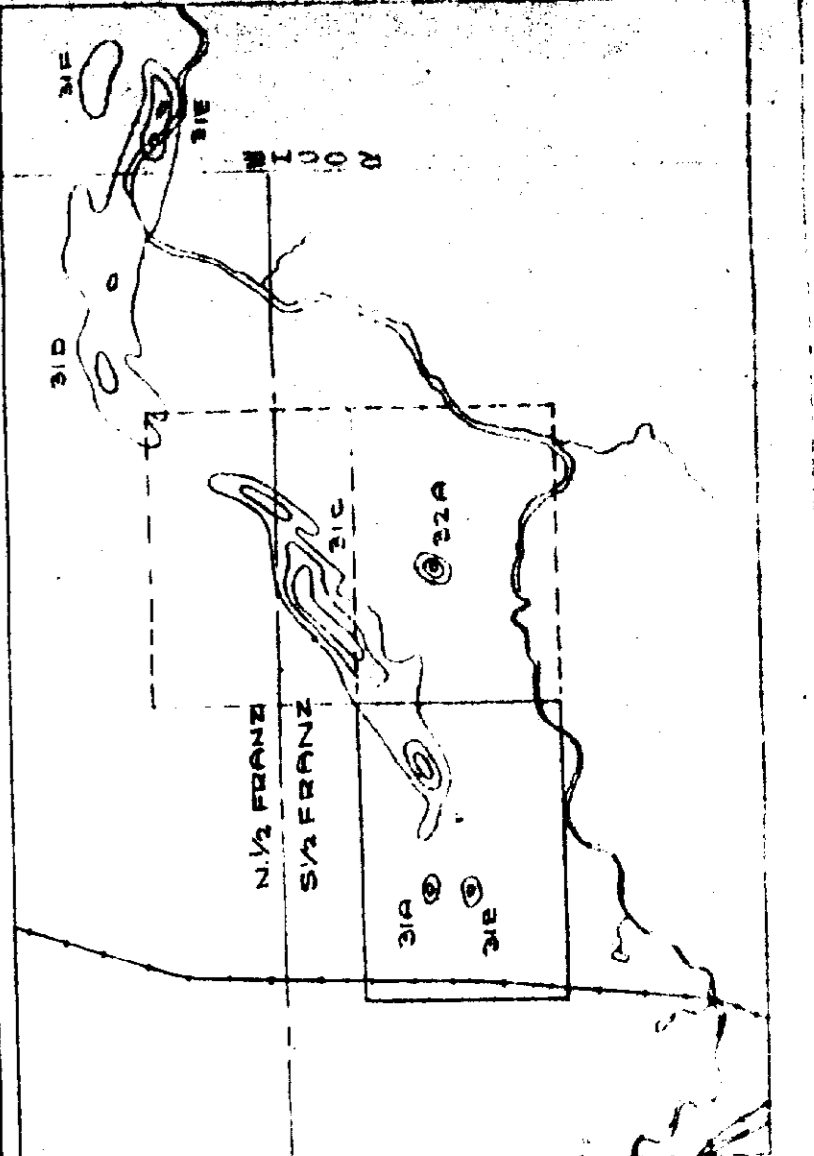
*Mag.*

*1-35*

*1-2-58*

*Glasgow 0013 1126*



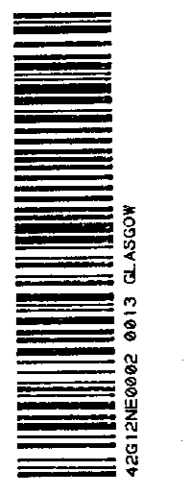


GLASGOW-0013 27



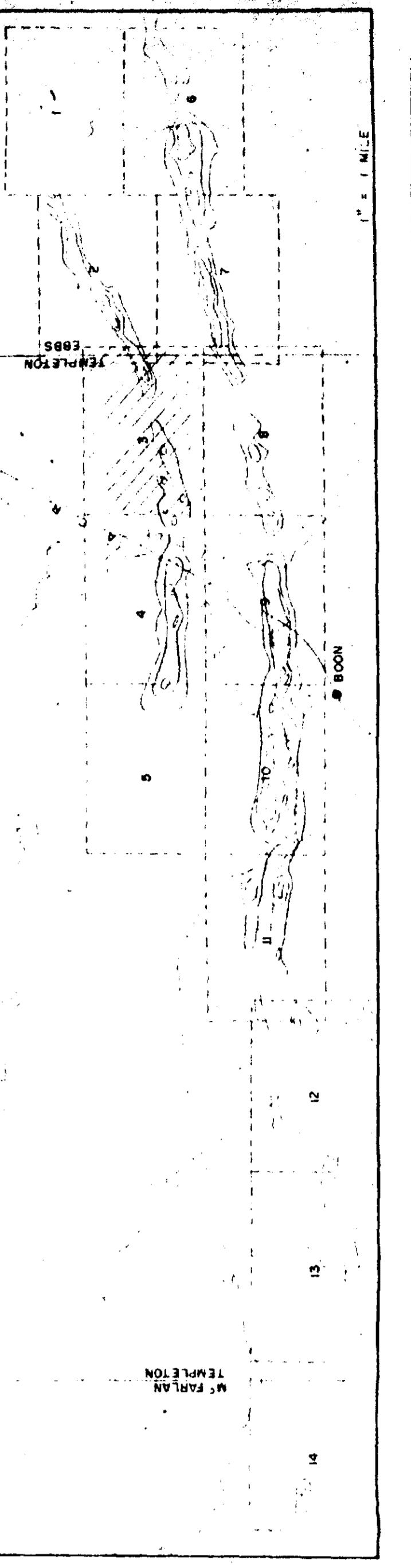
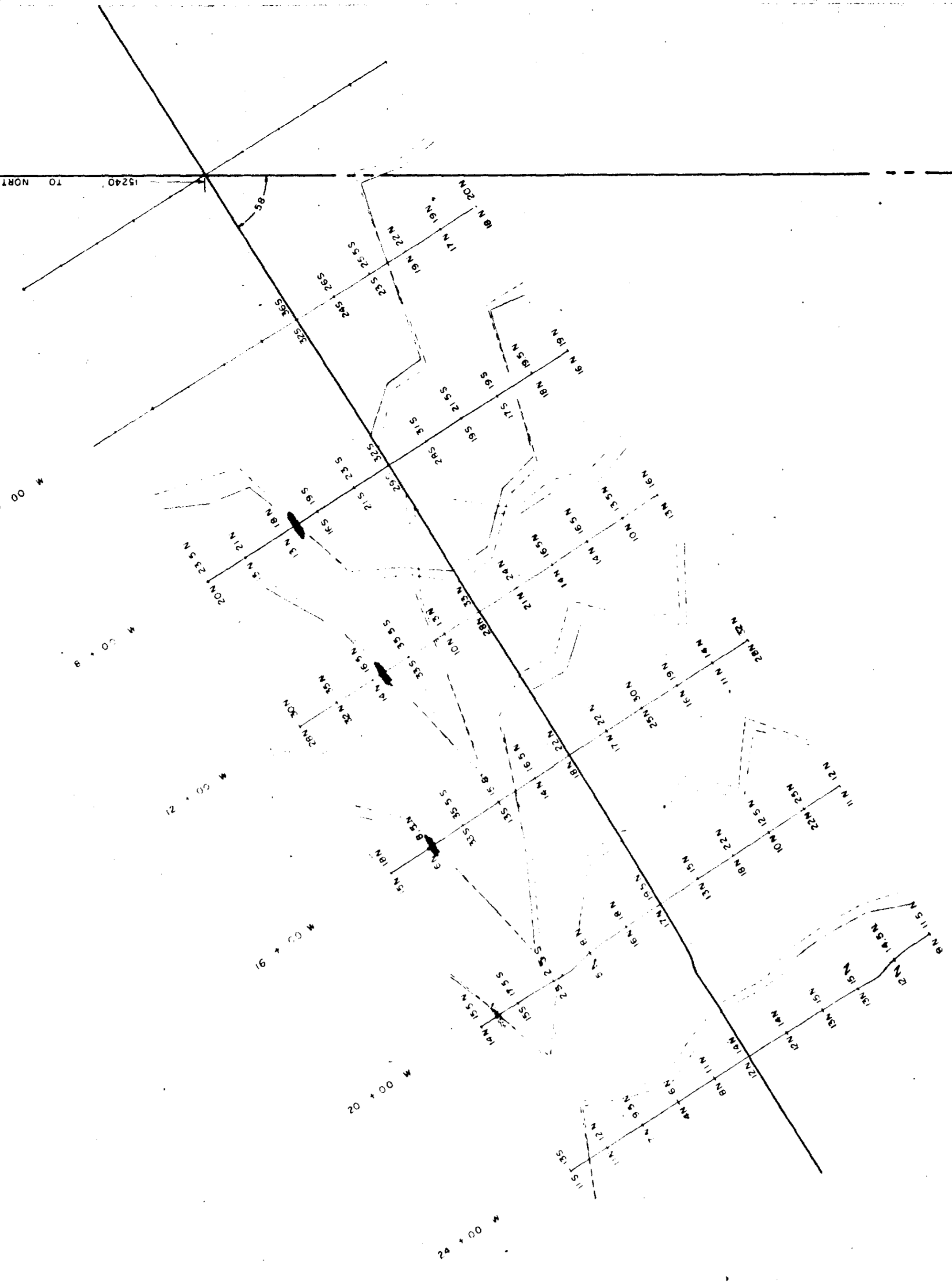
ALGOMA ORE PROPERTIES LTD.  
MAGNETOMETER SURVEY  
ANOMALIES 31-A-B-C

FRANZ TWP. Nov. 30 1957  
Scale: 1" = 200'



GLASGOW - 0013 28

TEMPLETON TWP.  
EBBS TWP.  
TO NORTH TWP. BOUNDARY



ALGOMA ORE PROPERTIES LTD.  
EXPLORATION DEPARTMENT  
ELECTROMAGNETIC SURVEY

ANOMALY 3 B  
SCALE 1" = 200'

FEBRUARY, 1958

INSTRUMENT : W. P. M. VERTICAL LOOP R. E. M.  
METHOD : BOUNDARY - 400' SPREAD  
LEGEND : C.P.S. 0000  
DIP ANGLE 1000 GALS (5000 G.P.S.)  
SCALE : 1" = 20'  
CROSS-DIVERS : 10'



**ALGOMA ORE PROPERTIES LTD.**  
**ELECTROMAGNETIC SURVEY**  
**ANOMALY 1 & 2**

SCALE: 1" = 200'      JAN. 31 / 58.

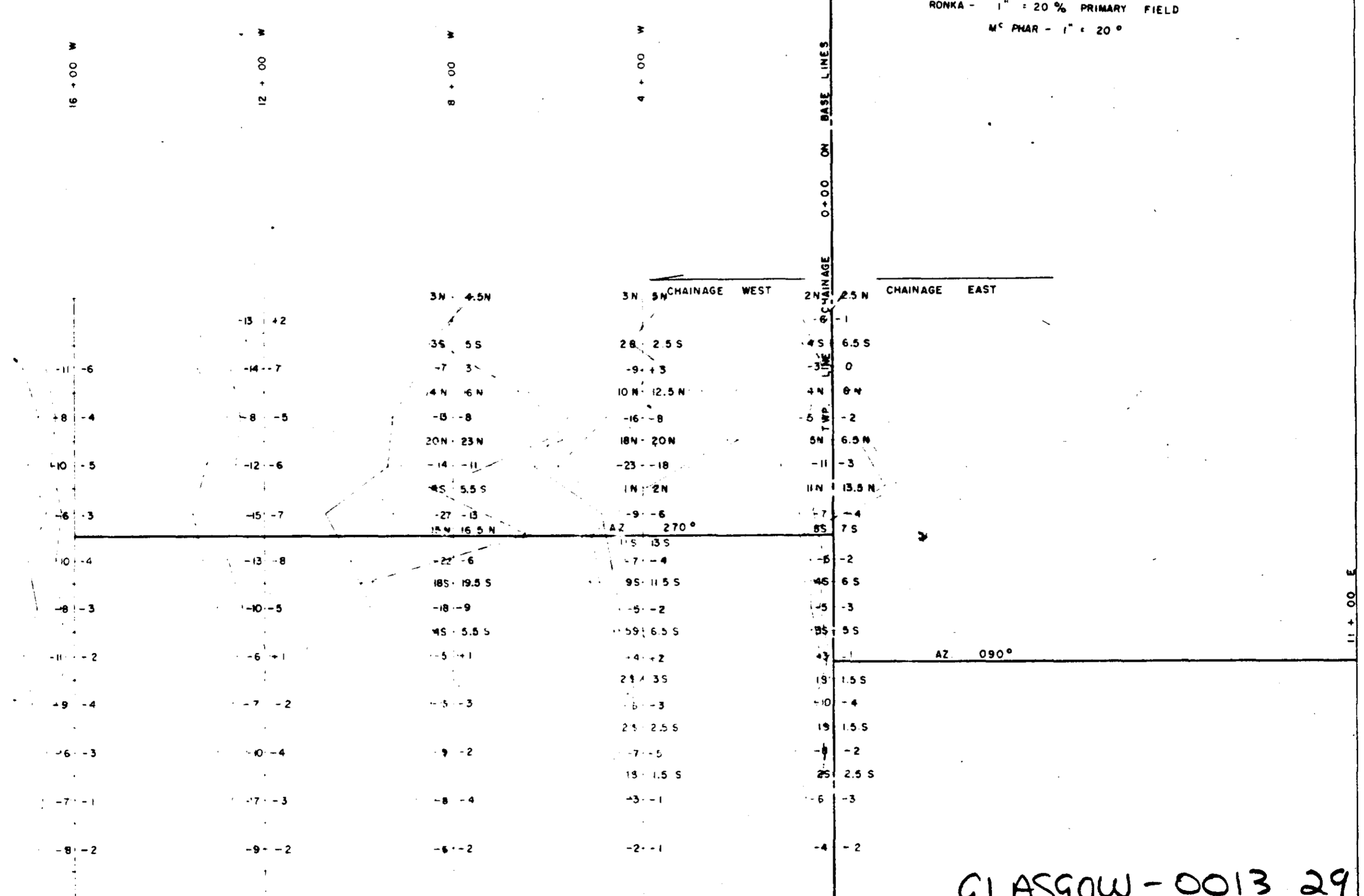
**LEGEND**

RONKA- (HORIZONTAL)		M <sup>s</sup> PHAR (VERTICAL)	
IN PHASE +4	OUT PHASE +2	1000 CPS	5000 CPS
----- IN PHASE		----- 4000 C.P.S.	
----- OUT OF PHASE		----- 5000 C.P.S.	

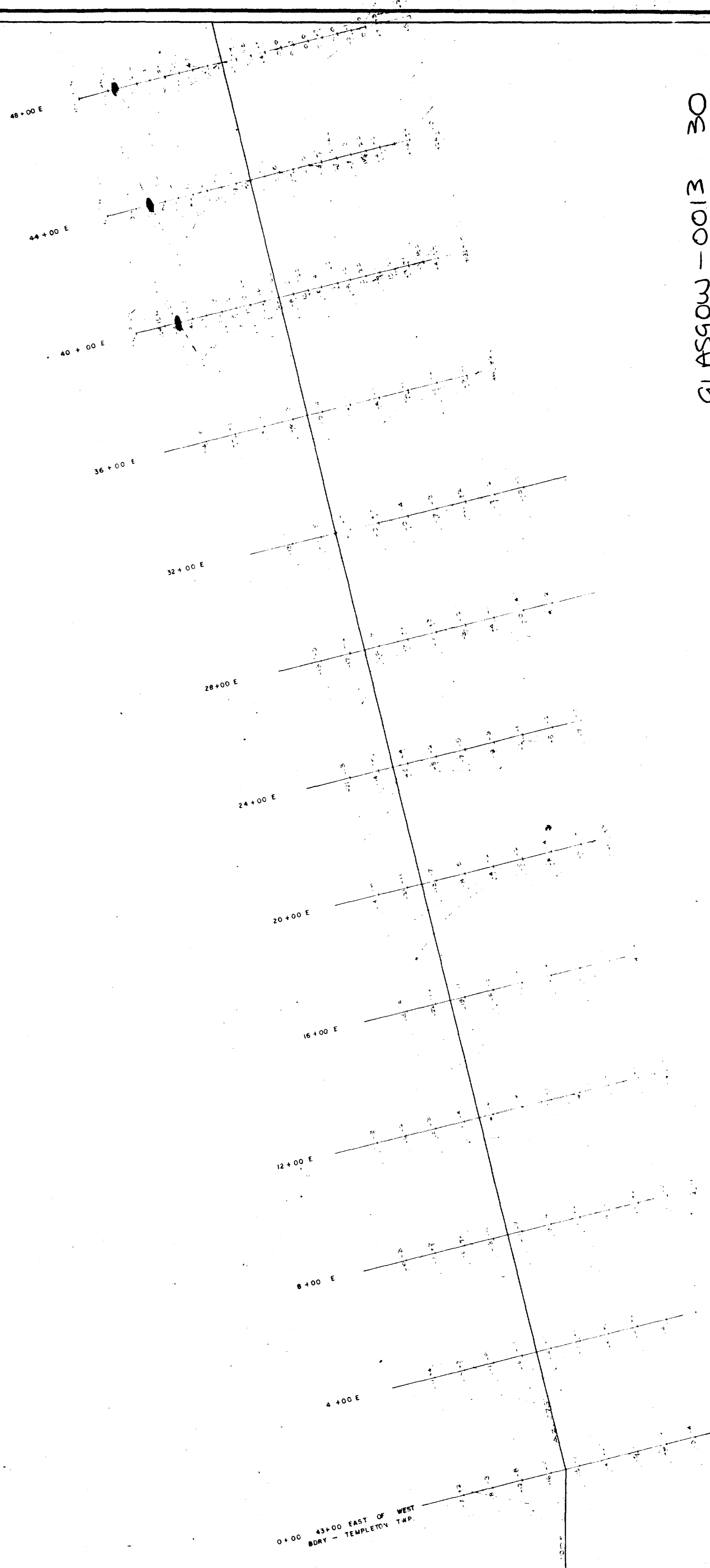
RONKA - IN LINE METHOD - 300' SPREAD  
M<sup>s</sup> PHAR - BROADSIDE METHOD - 400' SPREAD

**SCALE**

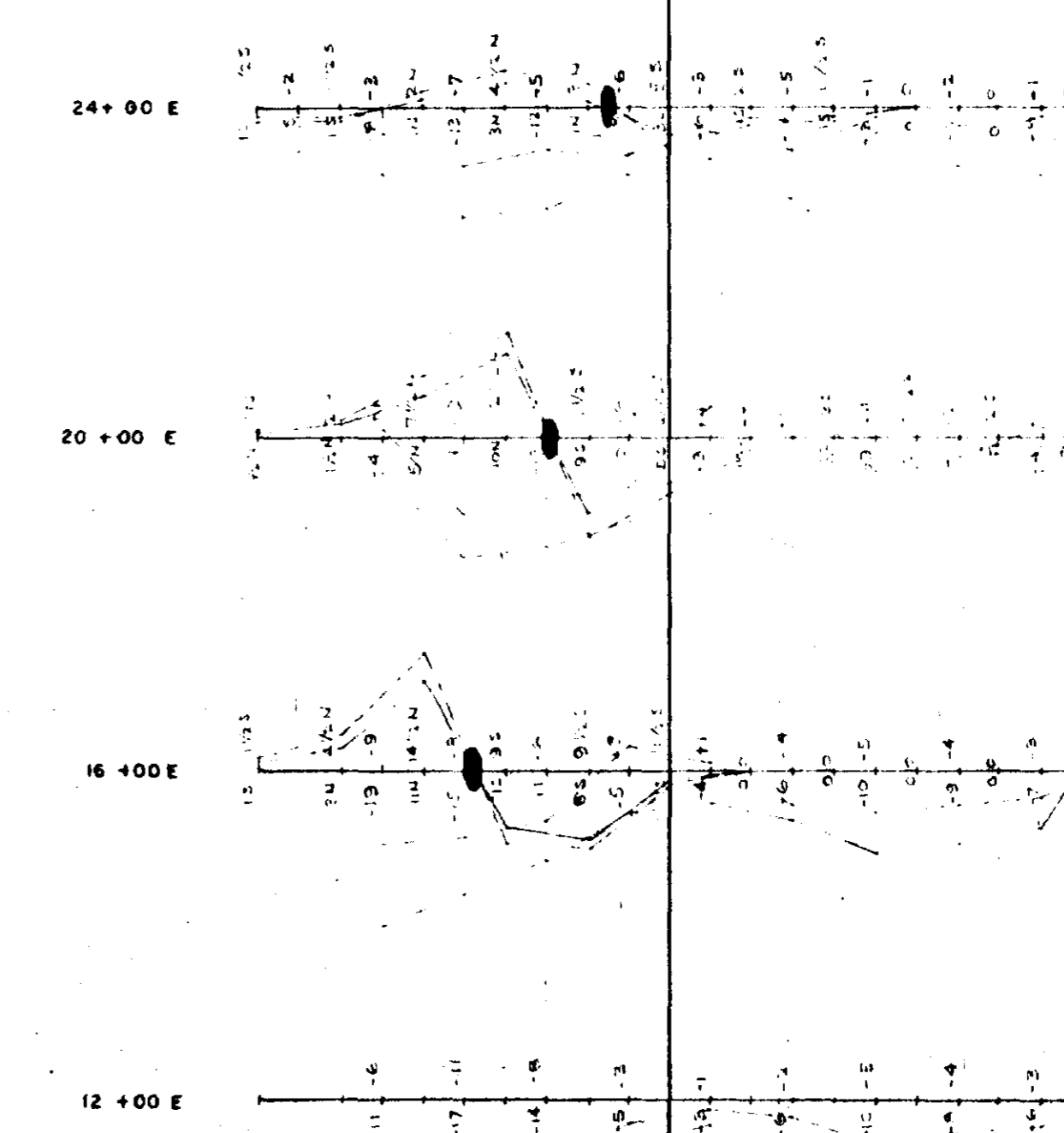
RONKA - 1" = 20' PRIMARY FIELD  
M<sup>s</sup> PHAR - 1" = 20'



GLASGOW - 0013 30



0+00 45+00 EAST OF WEST BORY - TEMPLETON TAP



**ALGOMA ORE PROPERTIES LTD.**  
**ELECTROMAGNETIC SURVEY**  
**ANOMALY 1 & 2**

SCALE: 1" = 200'

JAN. 31 / 58.

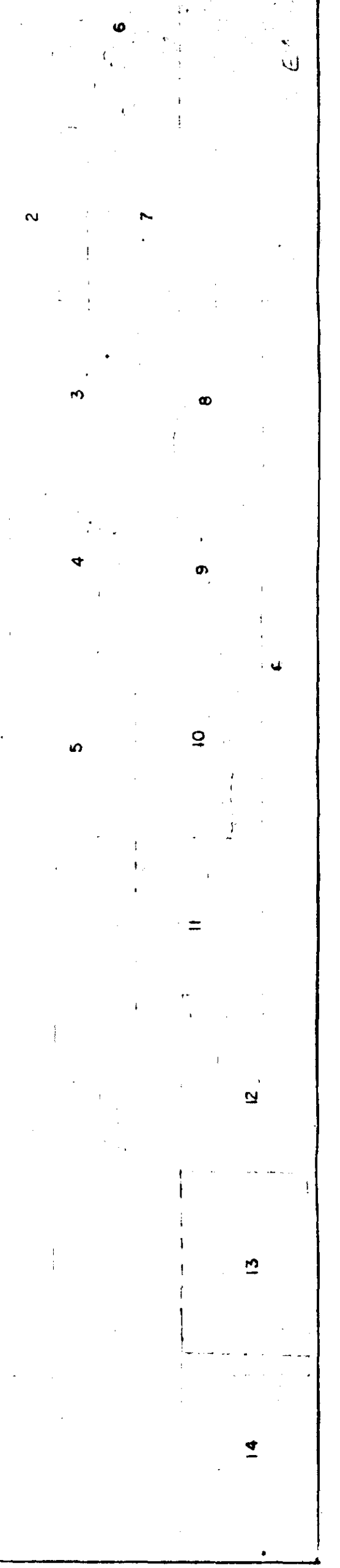
**LEGEND**

RONKA - M' PHAR  
 (HORIZONTAL) - 1000 C.P.S.  
 (VERTICAL) - 5000 C.P.S.  
 PHASE - 2N

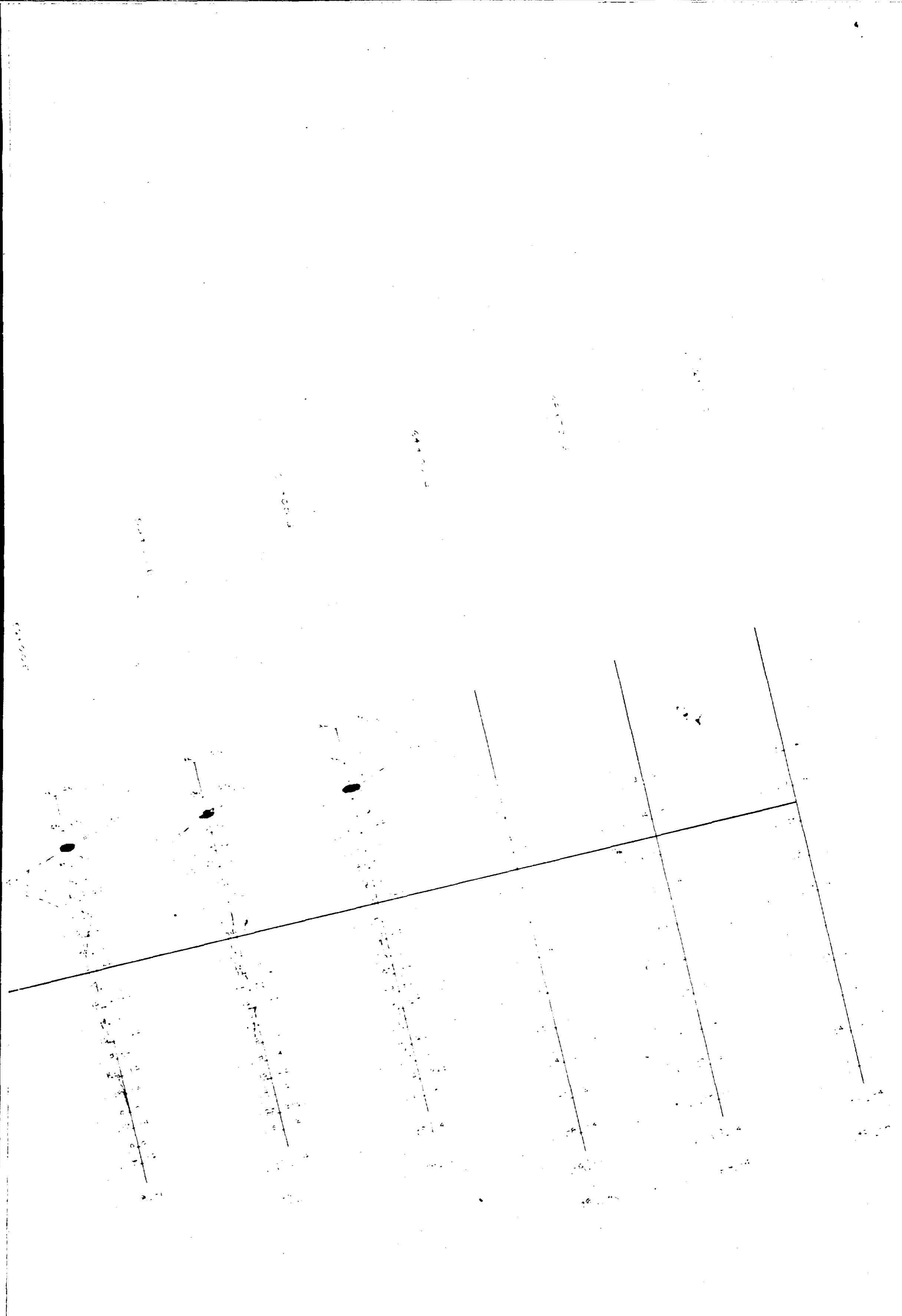
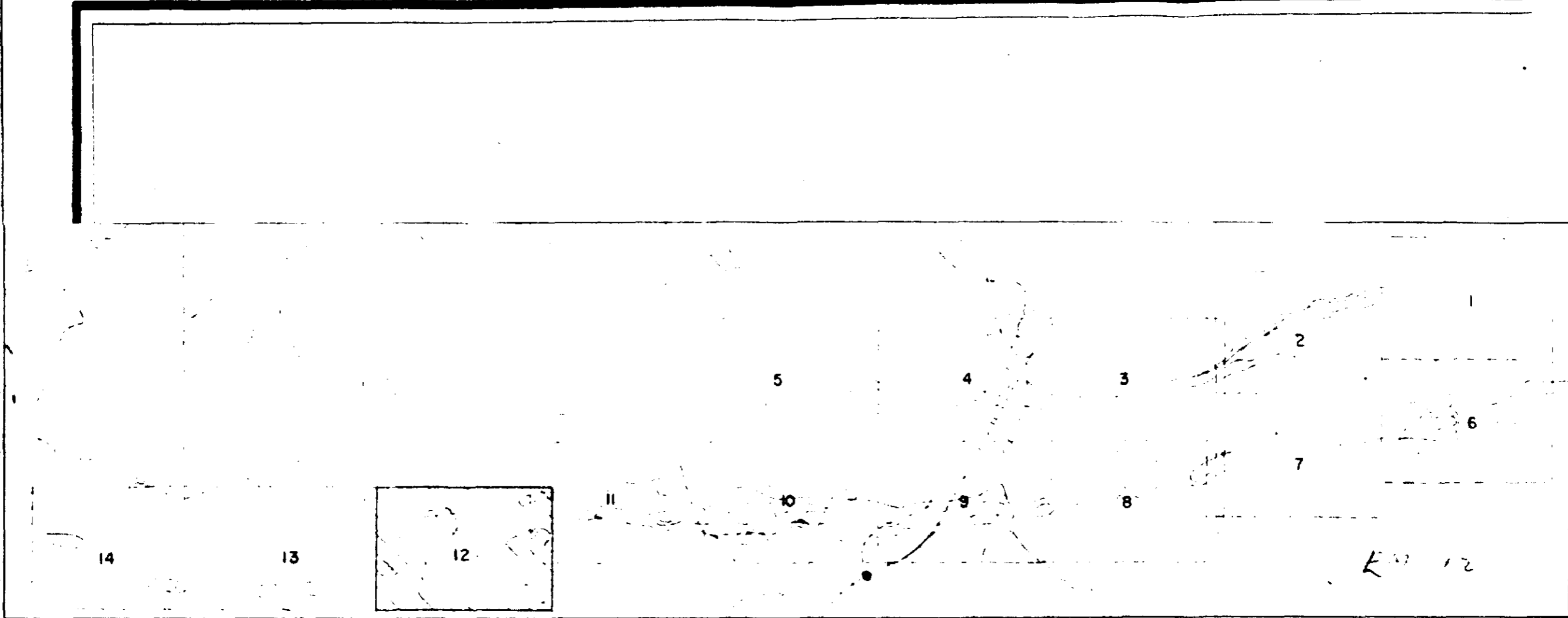
OUT OF PHASE - 1000 C.P.S.  
 IN PHASE - 5000 C.P.S.

RONKA - W. LINE METHOD - 300' SPREAD  
 M' PHAR - W. LINE METHOD - 400' SPREAD

SCALE - 1" = 200' PRIMARY FIELD  
 RONKA - M' PHAR - 1" = 20'







**ALGOMA ORE PROPERTIES LTD.**  
**ELECTROMAGNETIC SURVEY**  
**ANOMALY 1 & 2**

SCALE 1" = 200'      JAN. 31 / 58.

**LEGEND**

<b>RONKA-</b> (HORIZONTAL)		<b>M<sup>c</sup> PHAR</b> (VERTICAL)	
IN PHASE	OUT PHASE	1000 C.P.S.	5000 C.P.S.
+4	+2	2N	3N
----- IN PHASE		----- 1000 C.P.S.	
----- OUT OF PHASE		----- 5000 C.P.S.	

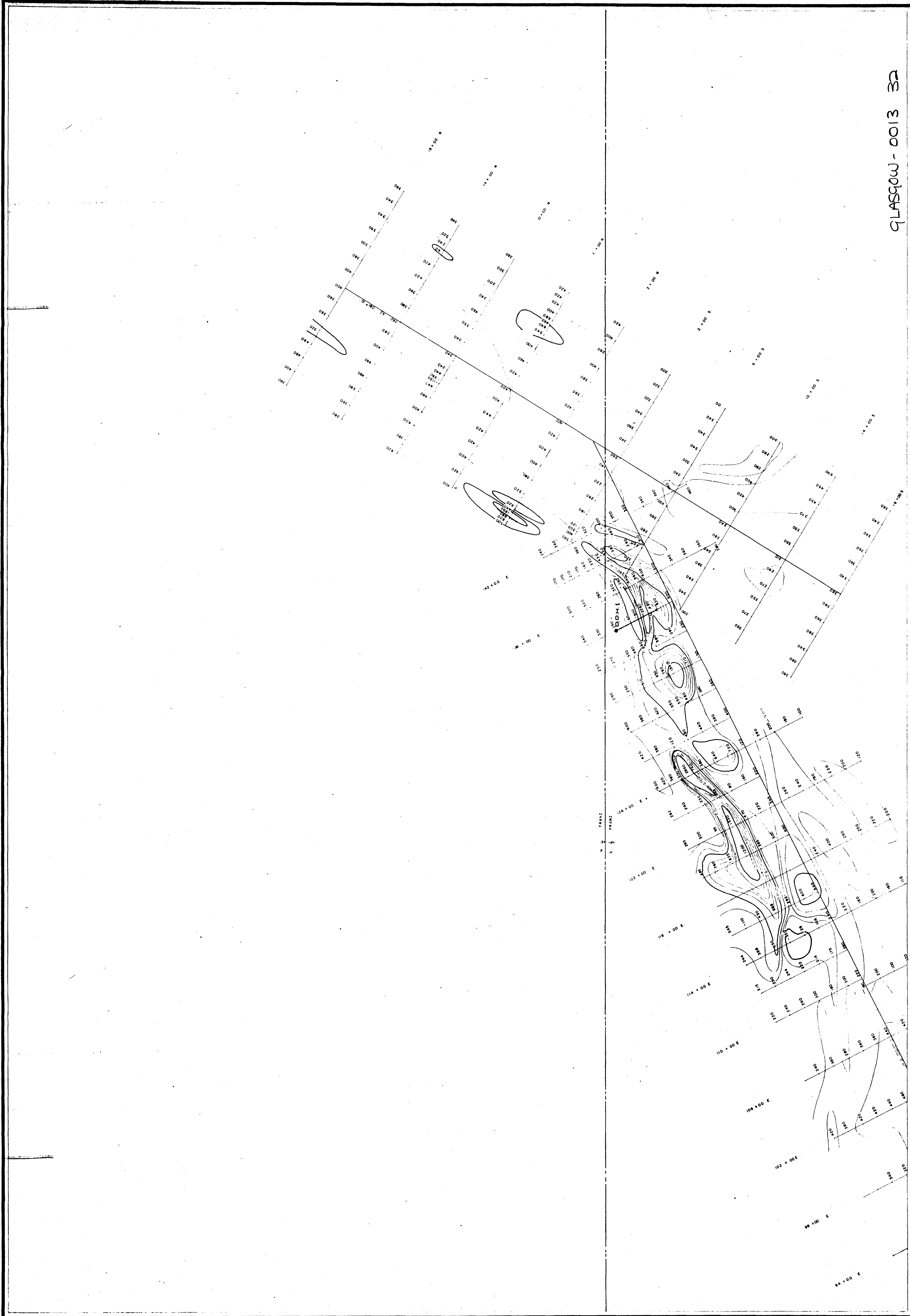
RONKA - IN LINE METHOD - 300' SPREAD  
M<sup>c</sup> PHAR - BROADSIDE METHOD - 400' SPREAD

**SCALE**

RONKA - 1" = 20 % PRIMARY FIELD  
M<sup>c</sup> PHAR - 1" = 20 °

GLASGOW - 0013 31

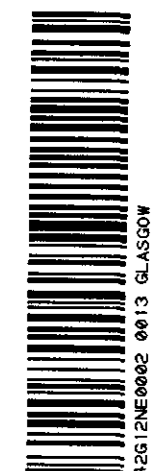




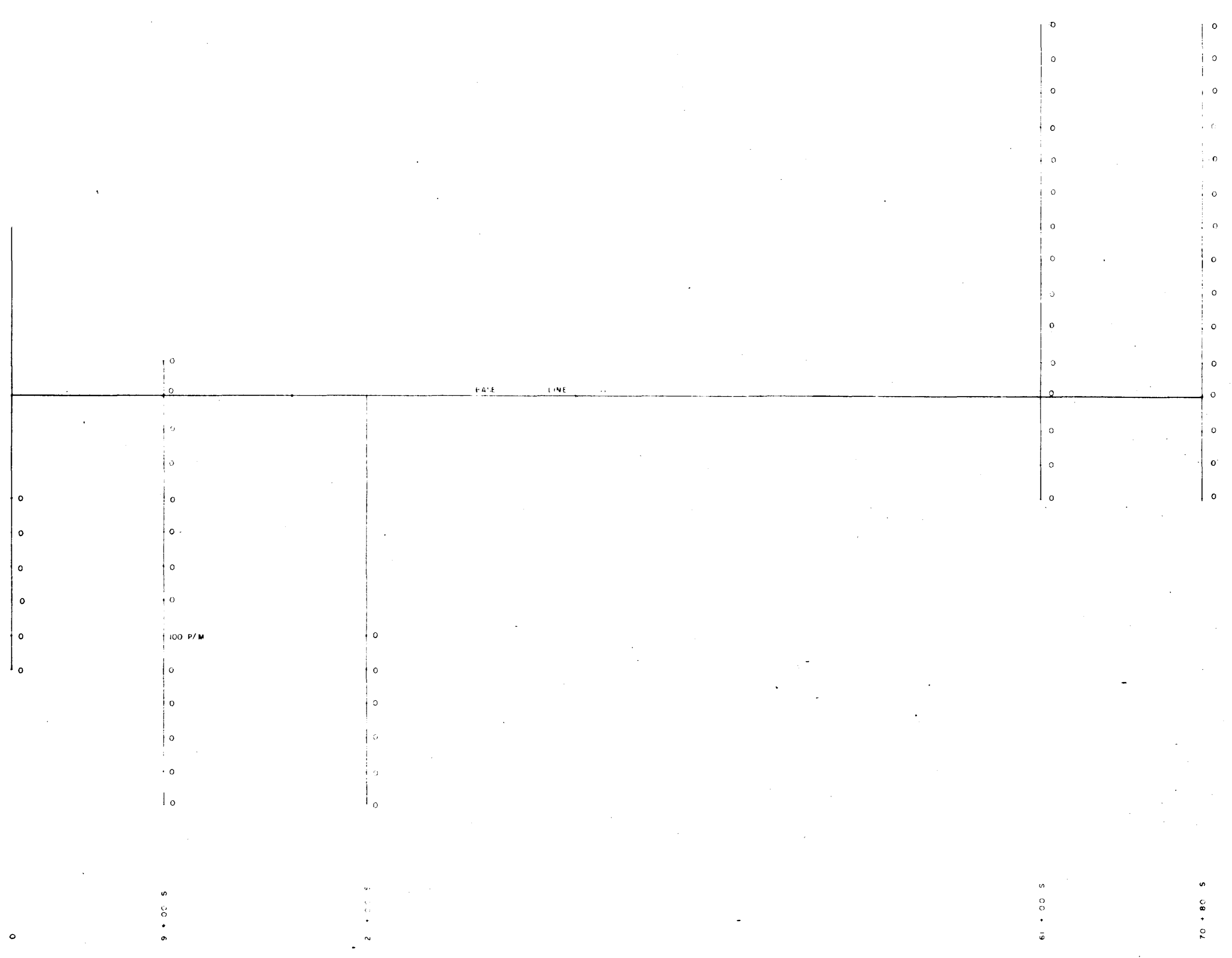
GLASGOW-0013 32

ALGOMA ORE PROPERTIES LTD.  
 EXPLORATION DEPARTMENT  
 MAGNETOMETER SURVEY  
 ANOMALY 31 C

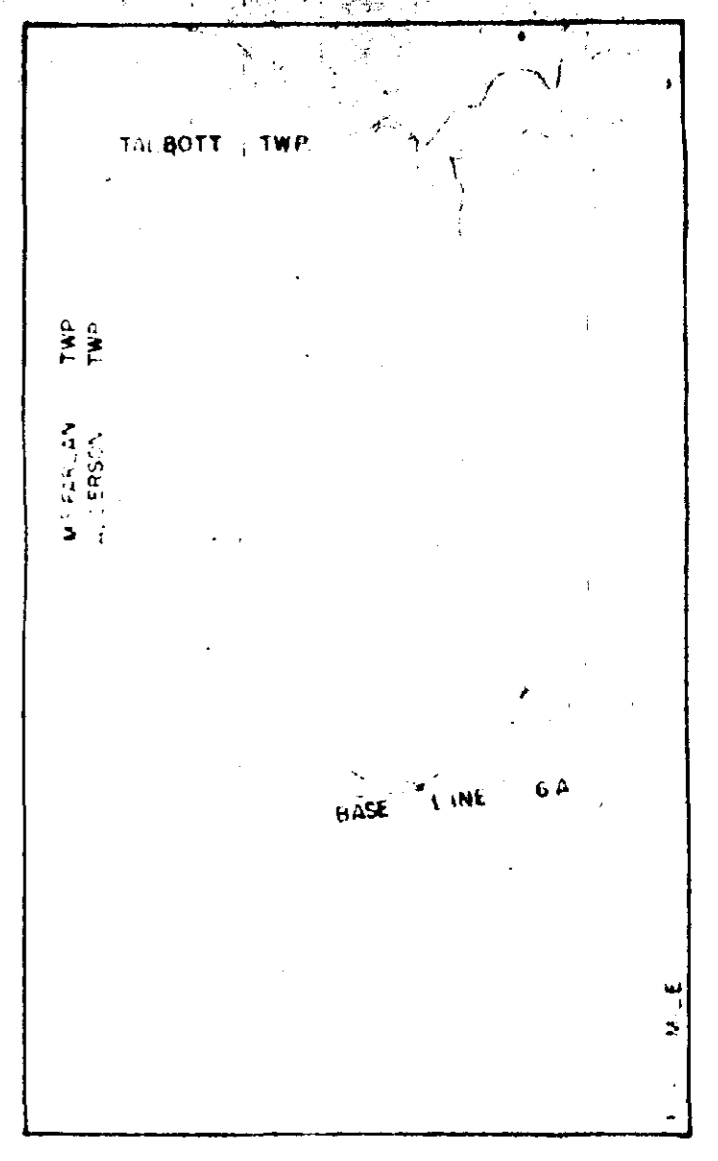
SCALE 1" = 200' JUNE 1958







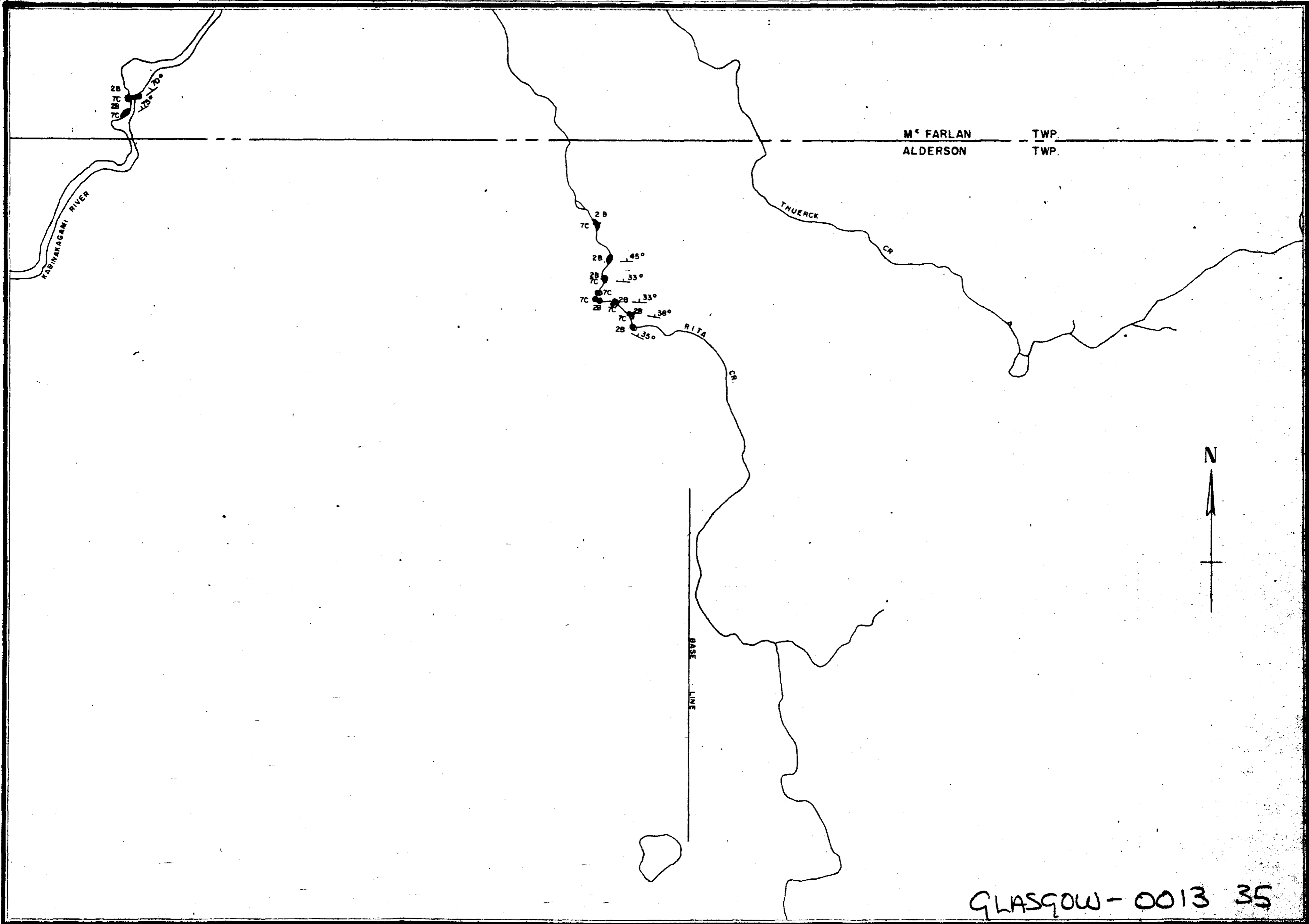
GLASGOW - 0013 34



ALGOMA ORE PROPERTIES LTD.  
EXPLORATION DEPARTMENT  
SOIL SAMPLING  
ANOMALY 6-A CENTRAL AREA

METHOD TOTAL HEAVY METAL TEST USING "MTECH" KIT  
RESULTS RECORDED IN PARTS PER MILLION





GLASGOW-0013 35

LEGEND

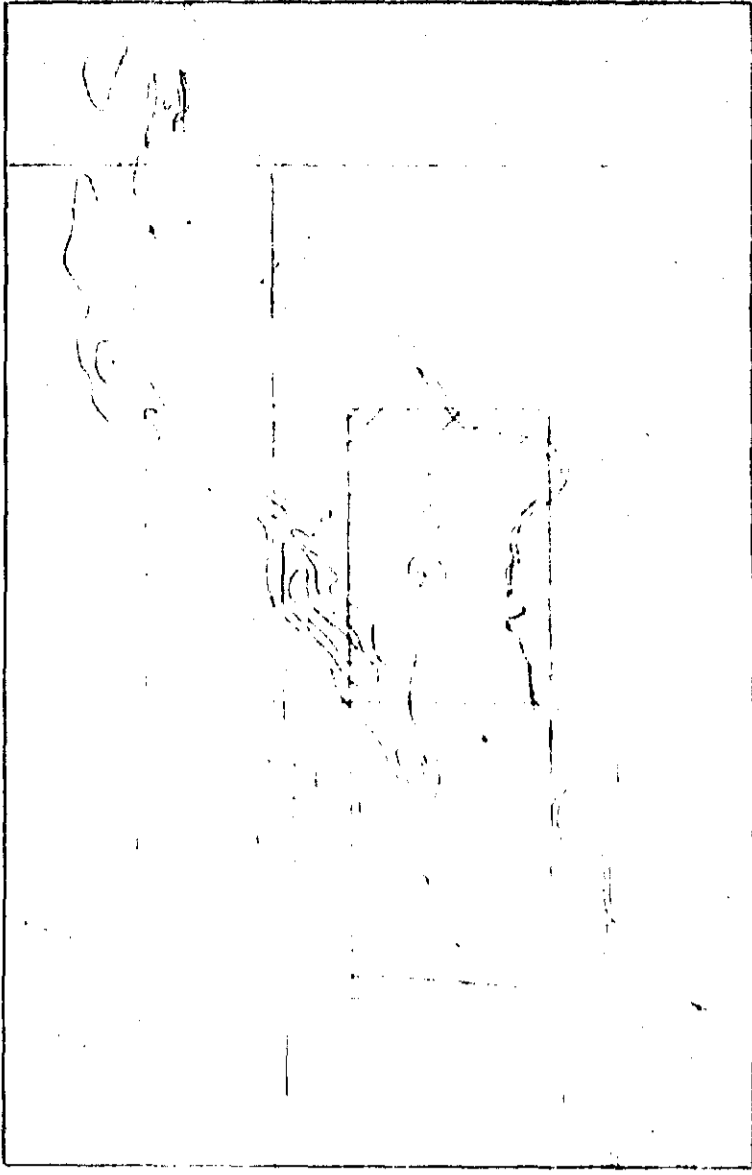
- QUARTZ BICHITE SCHIST
- PEGMATITE

ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT  
 ANOMALY 4 & 6 CENTRAL AREA  
 GEOLOGY

SCALE 1" = 200' AUGUST 1957



GLASGOW - 0013 36



# ALGOMA ORE PROPERTIES LTD. ELECTROMAGNETIC SURVEY

ANOMALY 32.A

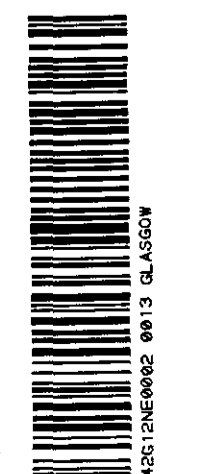
FRANZ TWP. Nov. 30/1957

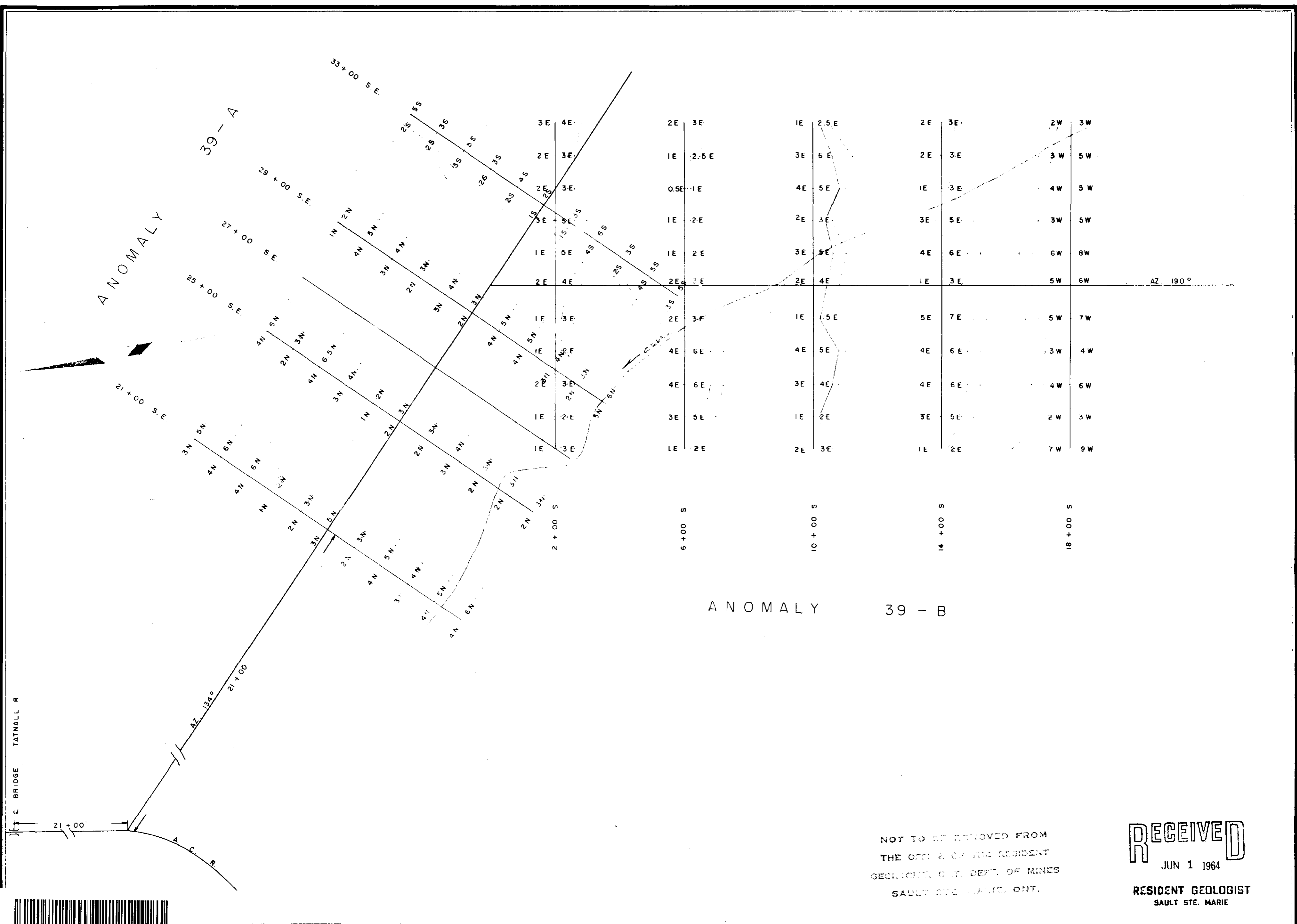
Scale: 1" = 200'

### LEGEND

- 1000 CPS
- 5000 CPS
- 10000 CPS
- 20000 CPS
- conductor

Surveyed by broadside method - 400' spread.





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**LEGEND**  
 M<sup>c</sup> PHAR R. E. M.  
 ——— 1000 C.P.S.  
 - - - - 5000 C.P.S.  
 ○ CONDUCTOR

SURVEYED BY BROADSIDE METHOD  
 TRANSMITTER 400' EAST ON LINE 2100, 25000 AND 2900  
 TRANSMITTER 400' WEST ON LINE 3300  
 TRANSMITTER 400' SOUTH ON LINE 200, 600, 1000 AND 1400  
 TRANSMITTER 400' NORTH ON LINE 1800

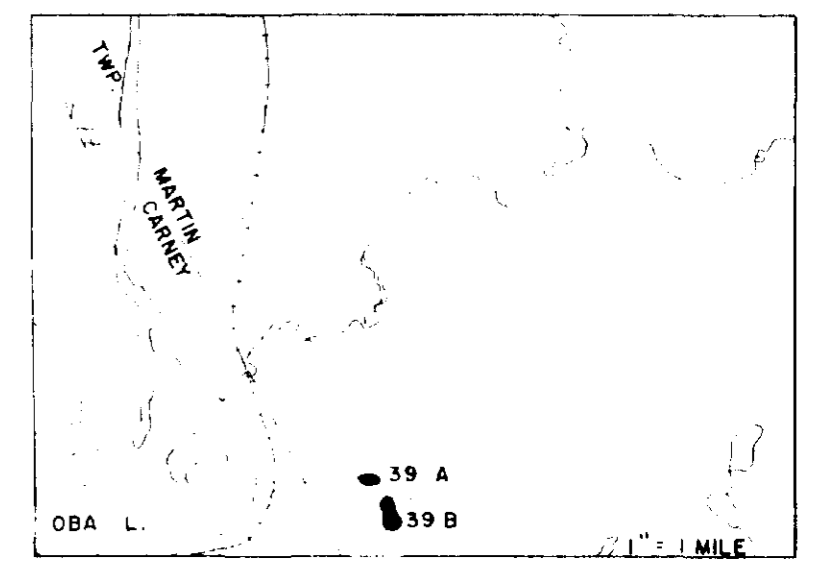
ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT  
**BLOCK "C"**  
 ANOMALY 39A & 39B  
 MARTIN TWP.  
 ELECTROMAGNETIC SURVEY  
 SCALE 1" = 200' MAY 1958

NOT TO BE REMOVED FROM  
 THE OFFICE OF THE RESIDENT  
 GEOLOGIST, ONT. DEPT. OF MINES  
 SAULT STE. MARIE, ONT.

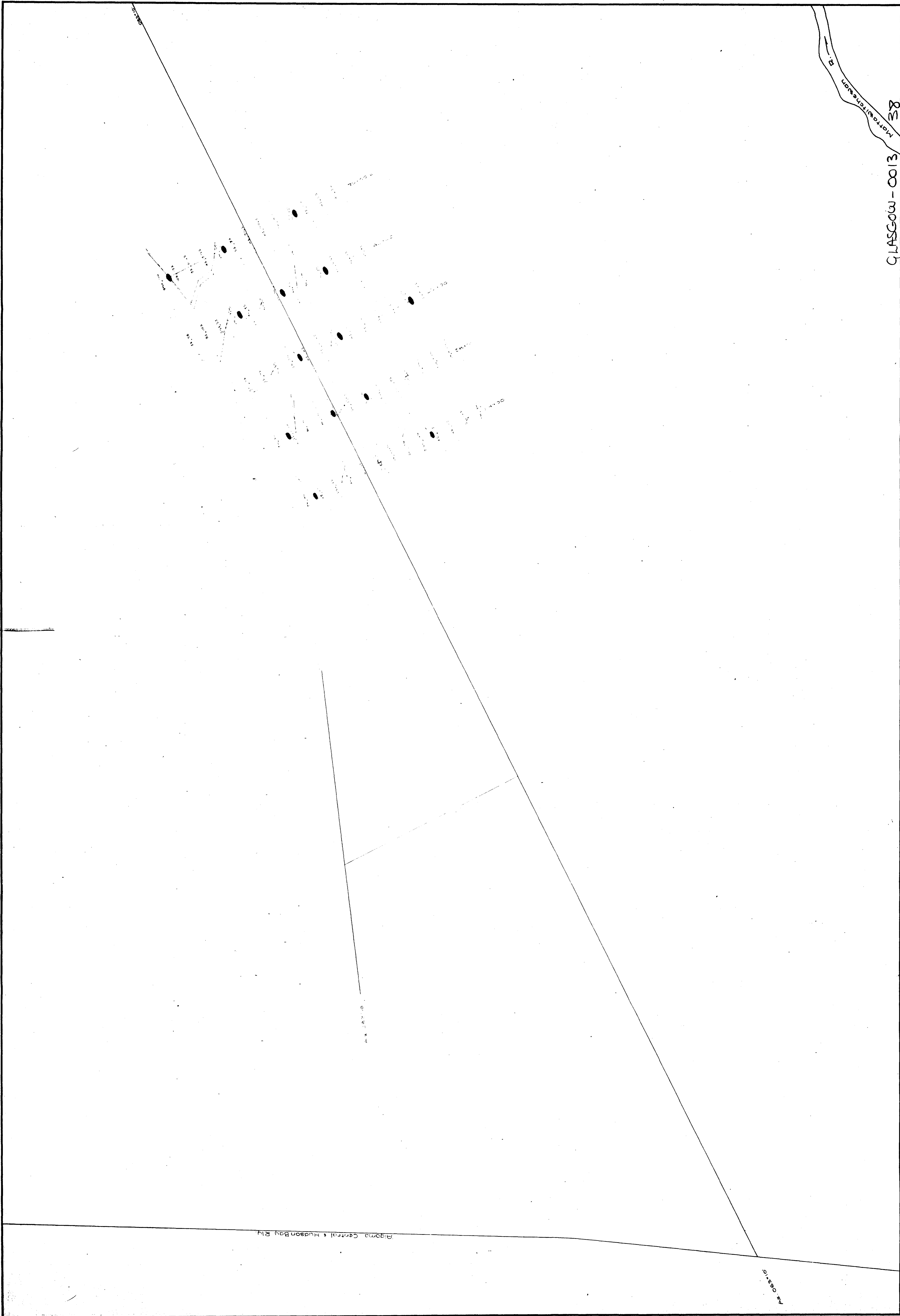
**RECEIVED**  
 JUN 1 1964  
 RESIDENT GEOLOGIST  
 SAULT STE. MARIE

*EM*  
*A 39B*

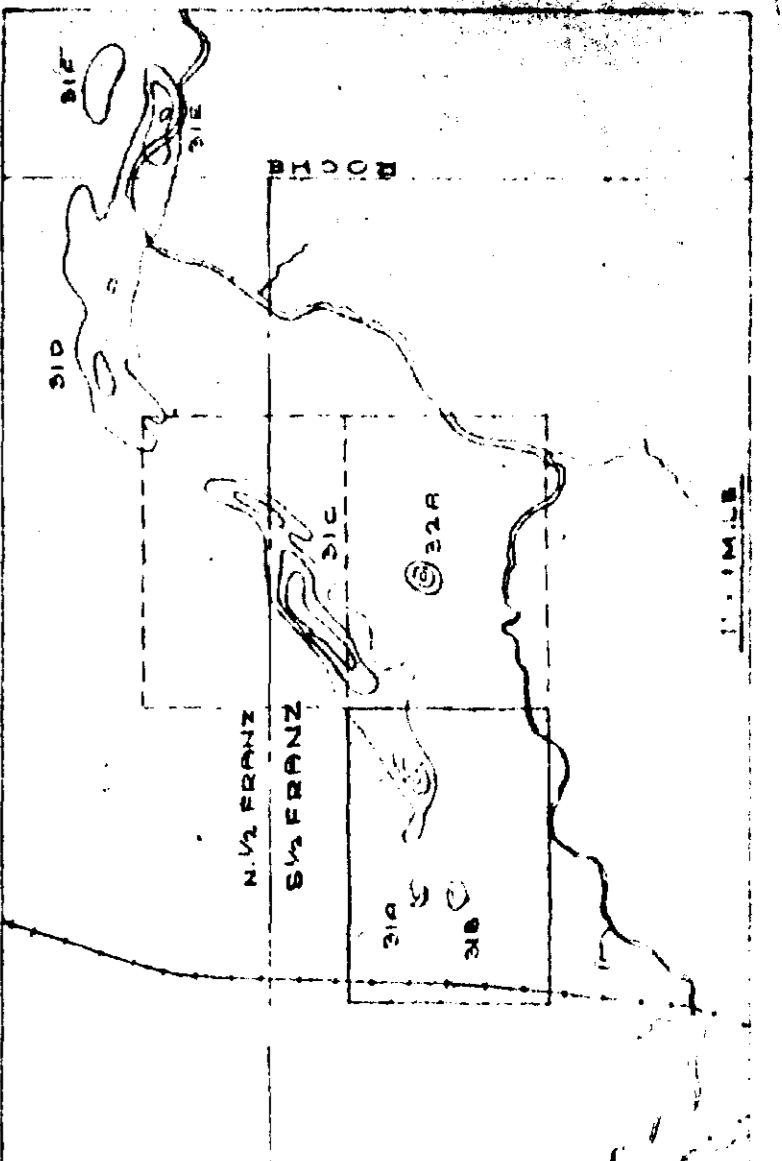
*GLASGOW-0013 #37*





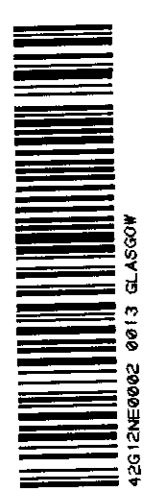


GLASGOW - 0013 38

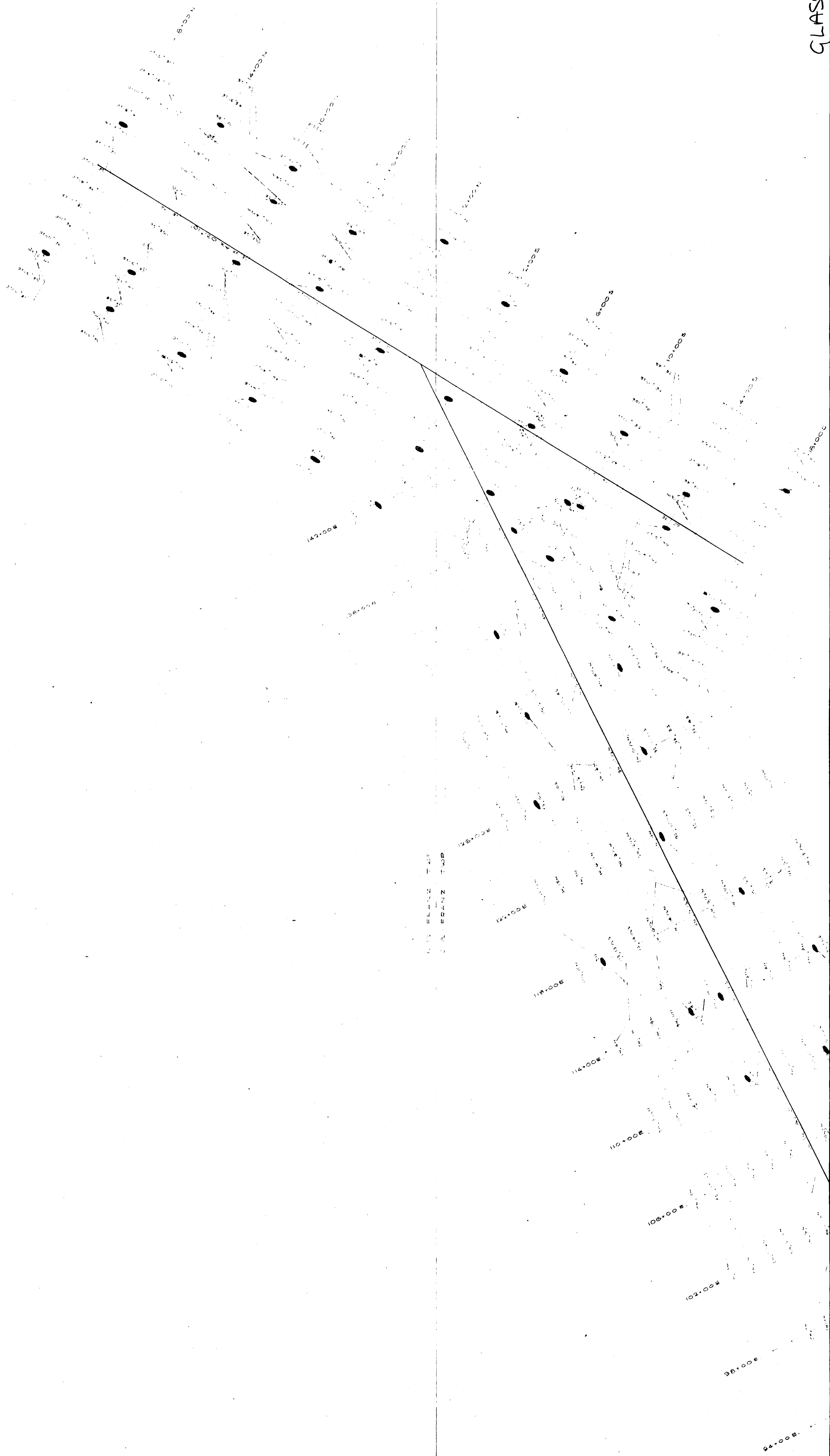


**ALGONIA ORE PROPERTIES LTD.**  
**ELECTROMAGNETIC SURVEY**  
**ANOMALIES 31-A-B-C.**  
 FRANZ TWP. Nov. 25 1957

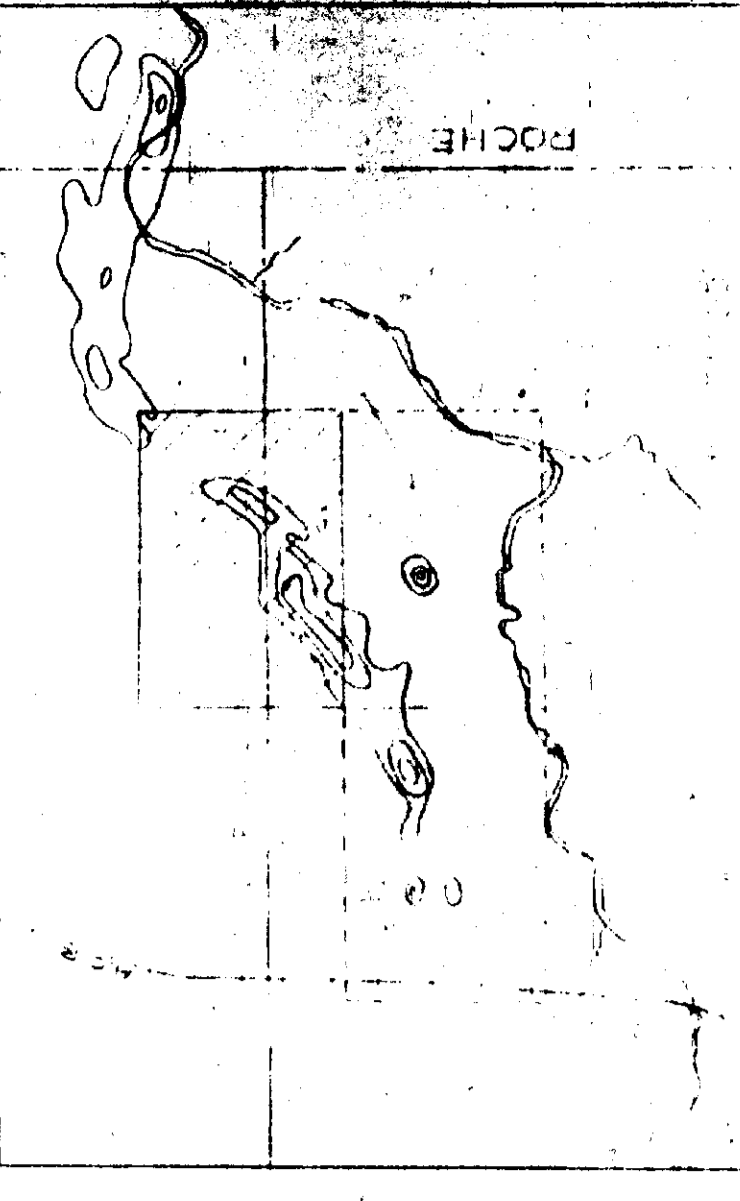
**LEGEND**  
 --- 5000  
 --- 1000 C.P.S.  
 --- 5000 C.P.S.  
 --- Contour  
 Surveyed by PROGRESS METHOD LOG SYSTEM







GLASSGOW -0013 39

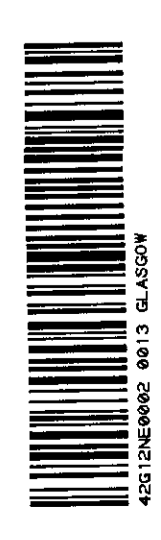


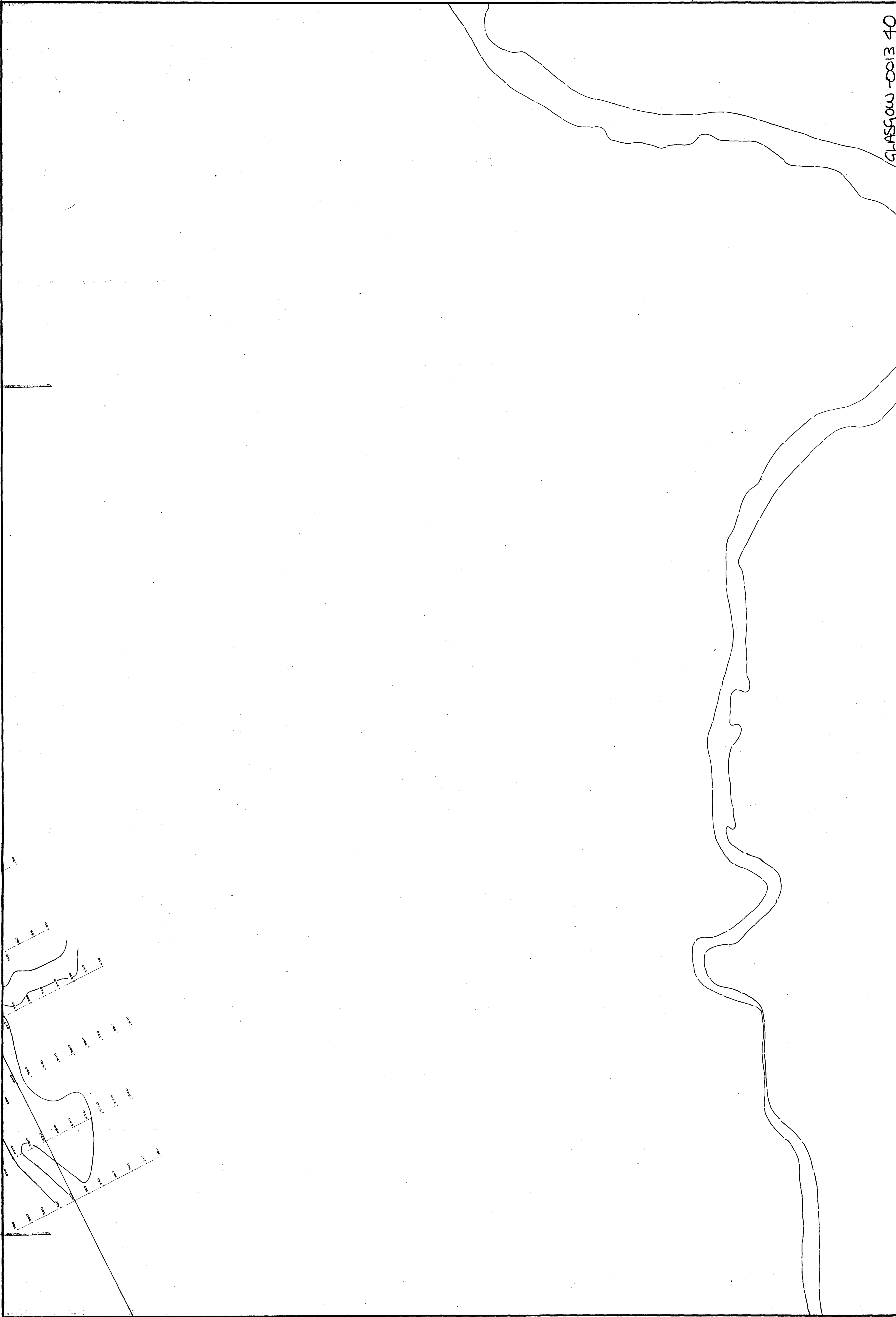
ALGOMA ORE PROPERTIES LTD.  
ELECTROMAGNETIC SURVEY  
ANOMALY 31C

FRANZ TWP. Nov. 30/1957  
Scale: 1" = 200'

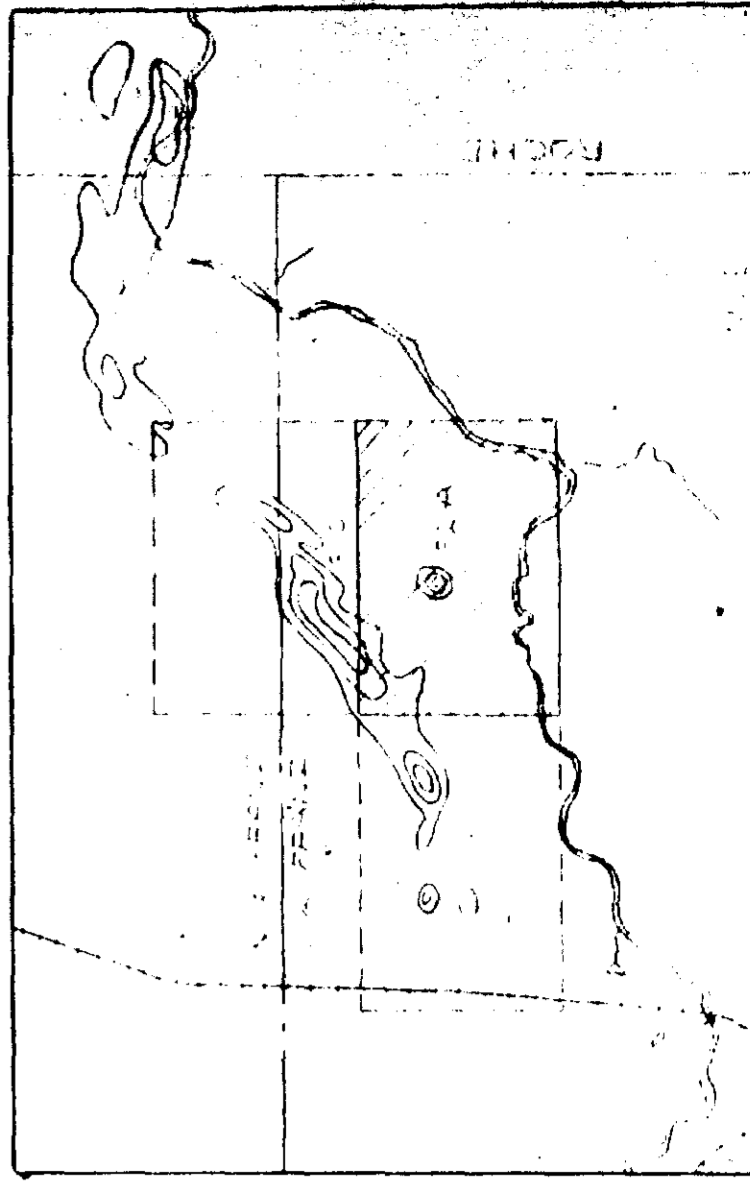
LEGEND

- 1000 5000 C.P.S.
  - 1000 C.P.S.
  - 5000 C.P.S.
  - conductor
- Surveyed by broadside method .400' spread.





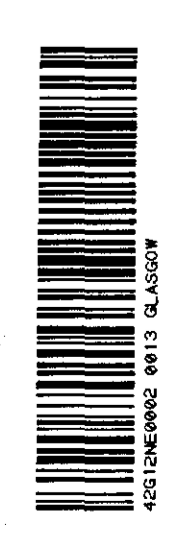
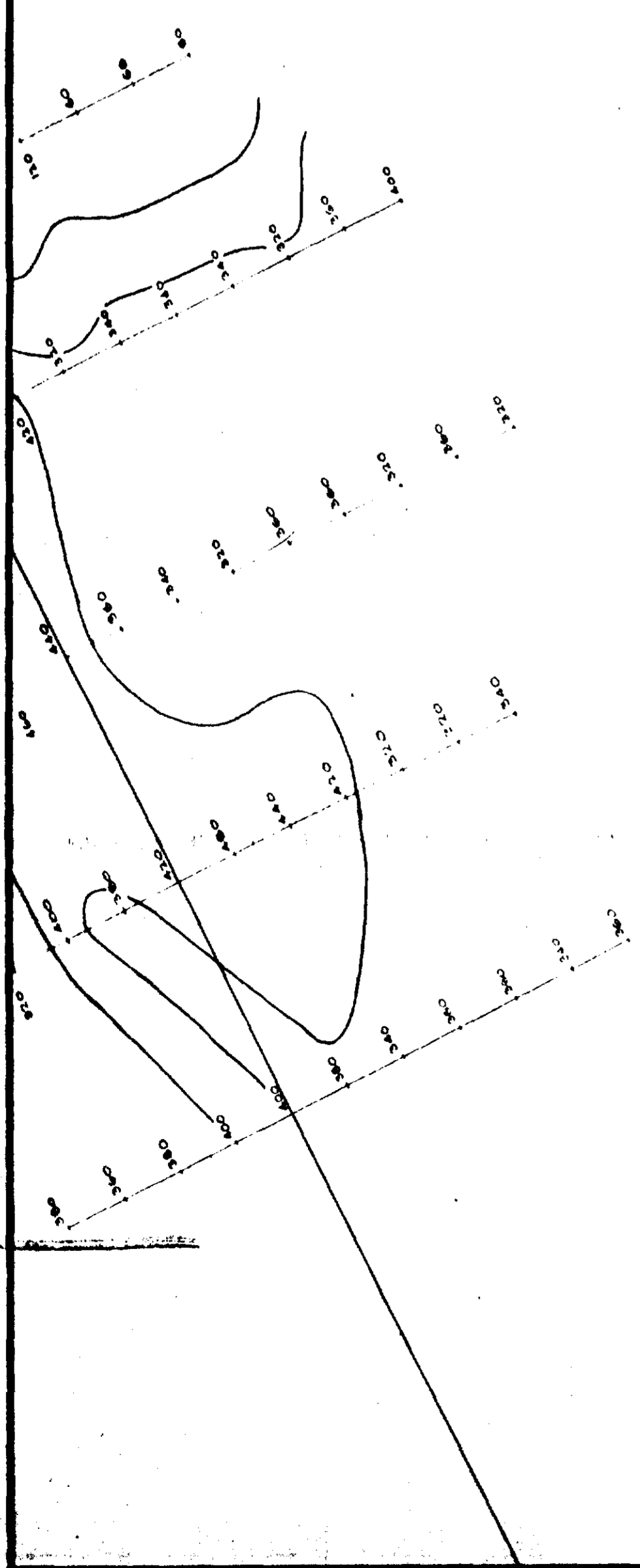
GLASGOW - 0013 40



**ALGOMA ORE PROPERTIES LTD.**  
**MAGNETOMETER SURVEY**  
**ANOMALY 31C**

FRANZ T. W. J. P.  
Nov. 27, 1957.

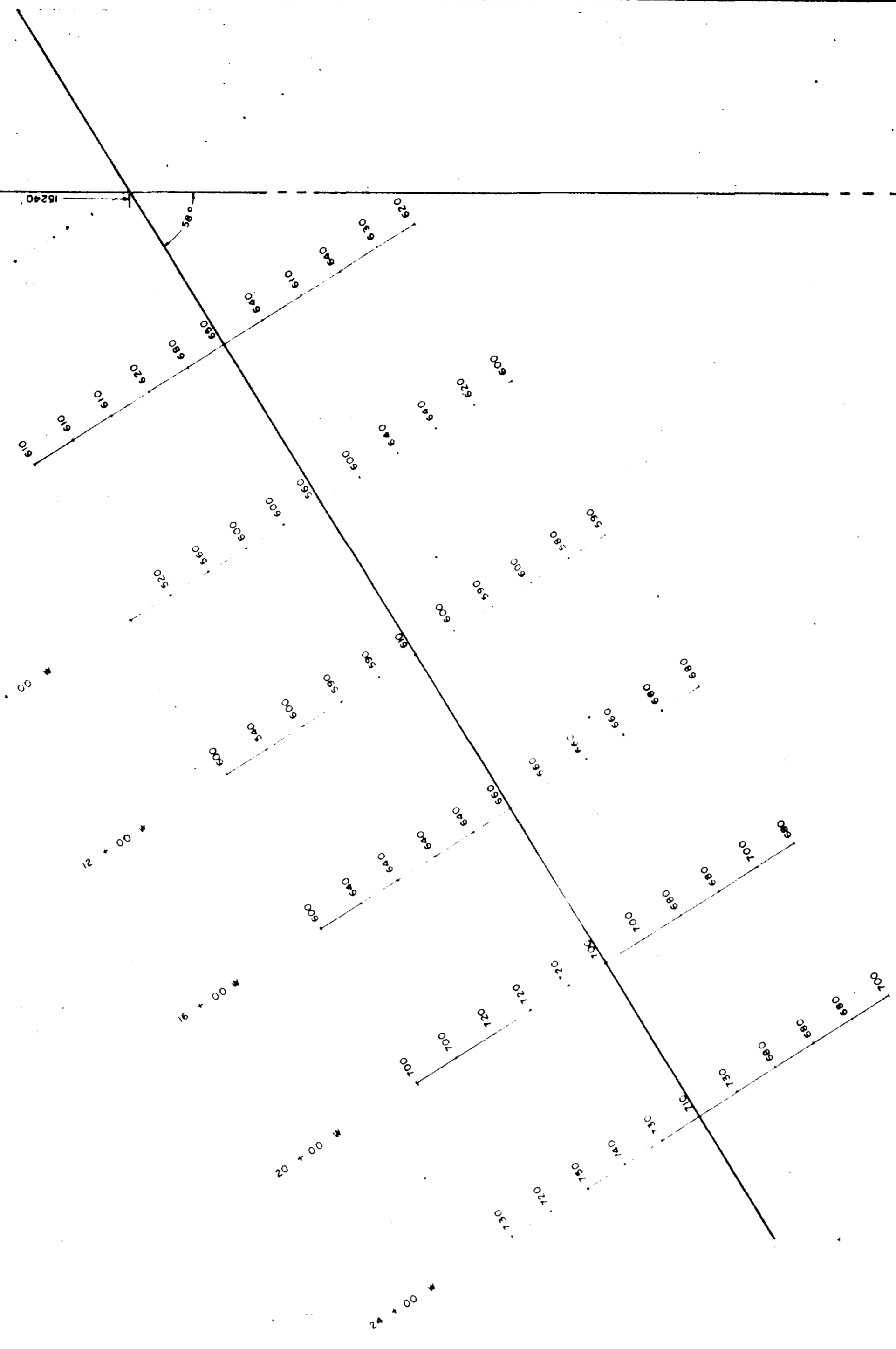
Scale 1" = 200'



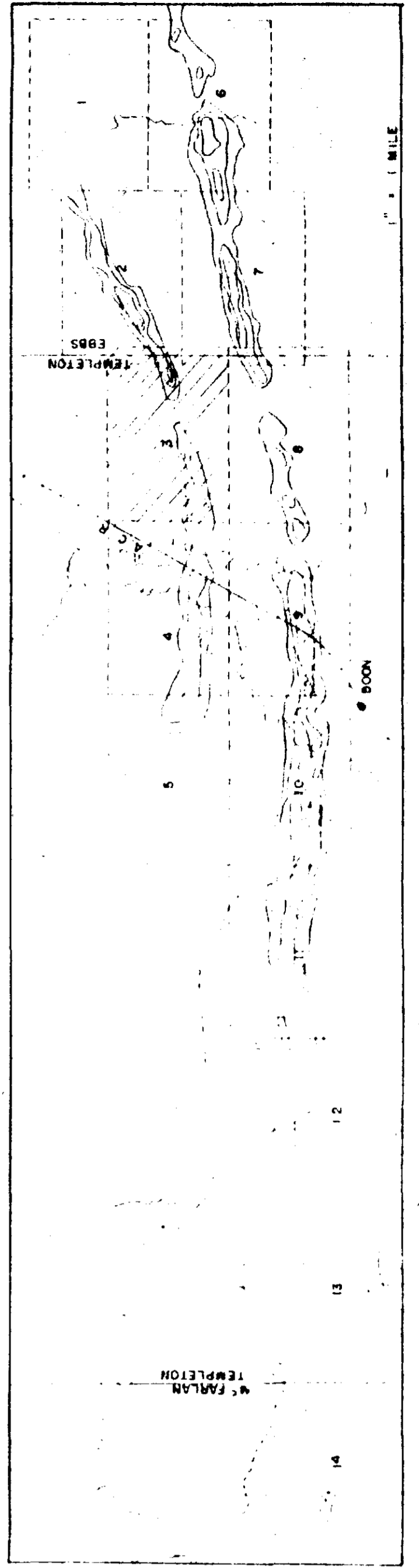


TEMPLETON TWP.  
EBBS TWP.

15240' TO NORTH TWP BOUNDARY

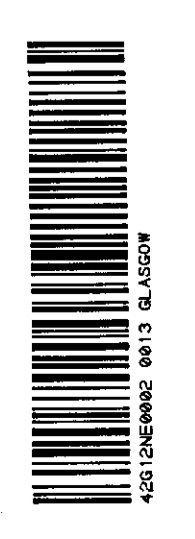


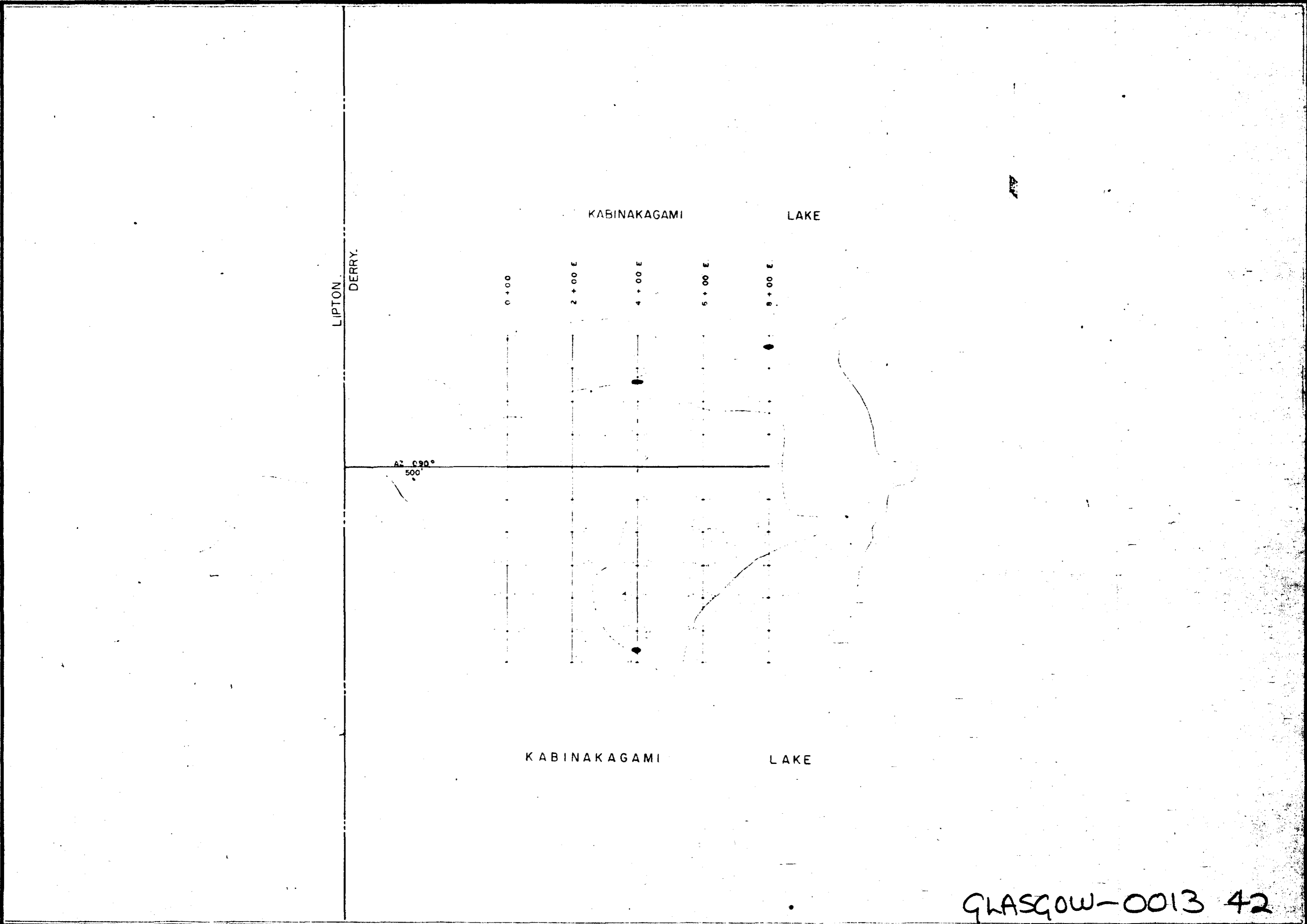
GLASGOW - 0013 41



ALGOMA ORE PROPERTIES LTD.  
EXPLORATION DEPARTMENT  
MAGNETOMETER SURVEY  
ANOMALY 3 B  
SCALE 1" = 200' FEBRUARY, 1959

LEGEND  
INSTRUMENT: "SHARPE"  
MODEL: A-2 MAGNETOMETER  
READINGS IN GAMMAS





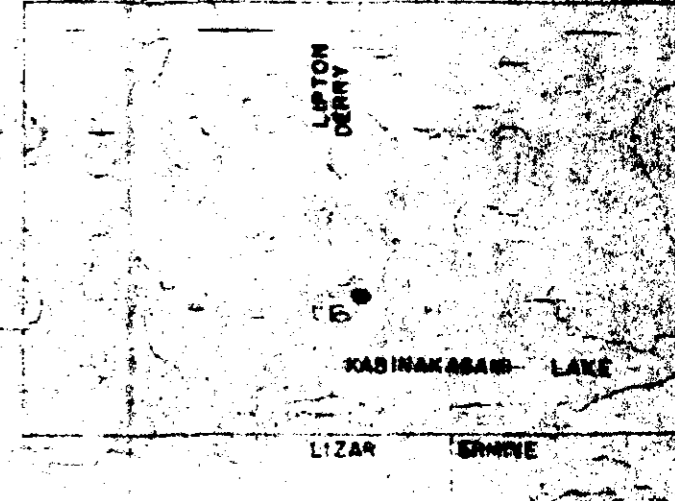
GLASGOW-0013 42

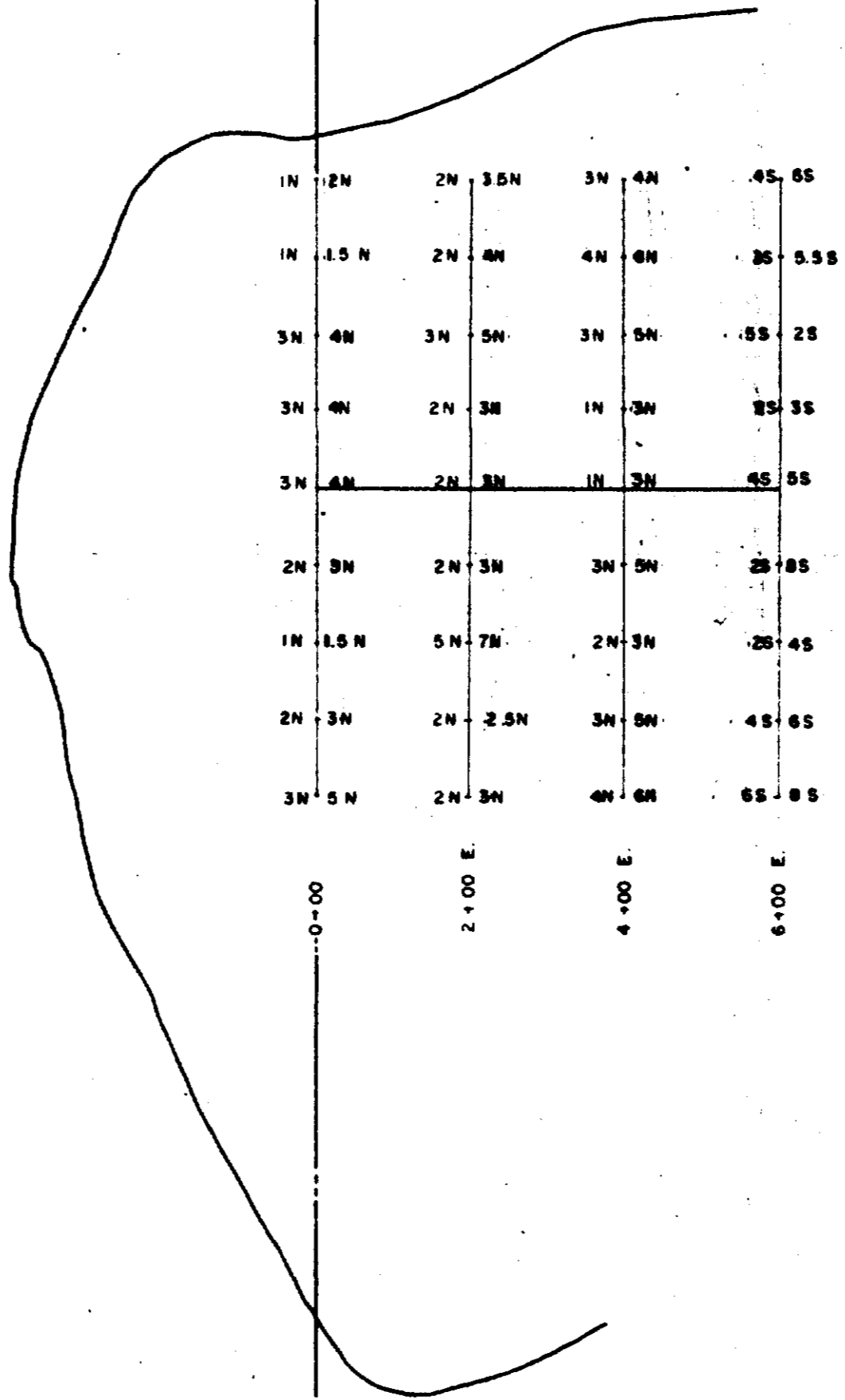
**LEGEND**  
M<sup>c</sup> PHAR R. E. M.

1000 C.P.S. | 5000 C.P.S.  
 ——— 1000 C.P.S.  
 - - - - 5000 C.P.S.  
 ● CONDUCTOR

SURVEYED BY BROADSIDE METHOD  
 TRANSMITTER 400' EAST OF RECEIVER  
 TRANSMITTER 400' WEST ON LINE 8+00

ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT  
**BLOCK "C"**  
 ANOMALY - 6  
 DERRY TWP.  
 ELECTROMAGNETIC SURVEY  
 SCALE 1" = 200' JUNE 1958





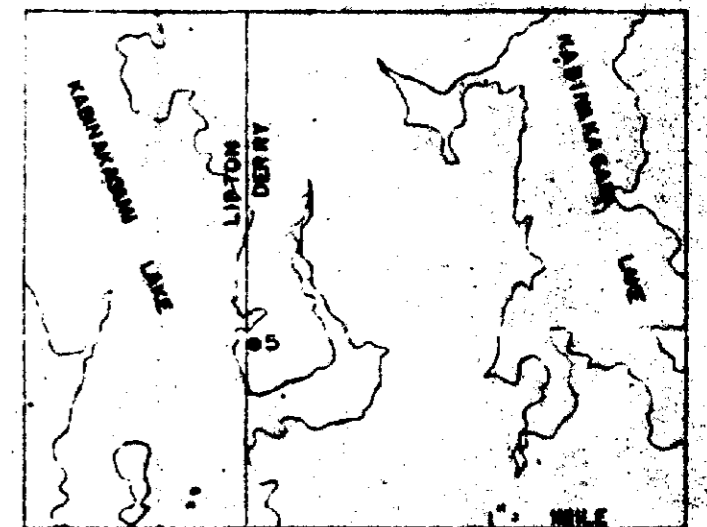
GLASGOW-0013 43



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ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT  
 BLOCK "C"  
 ANOMALY - 5  
 DERRY TWP  
 ELECTROMAGNETIC SURVEY

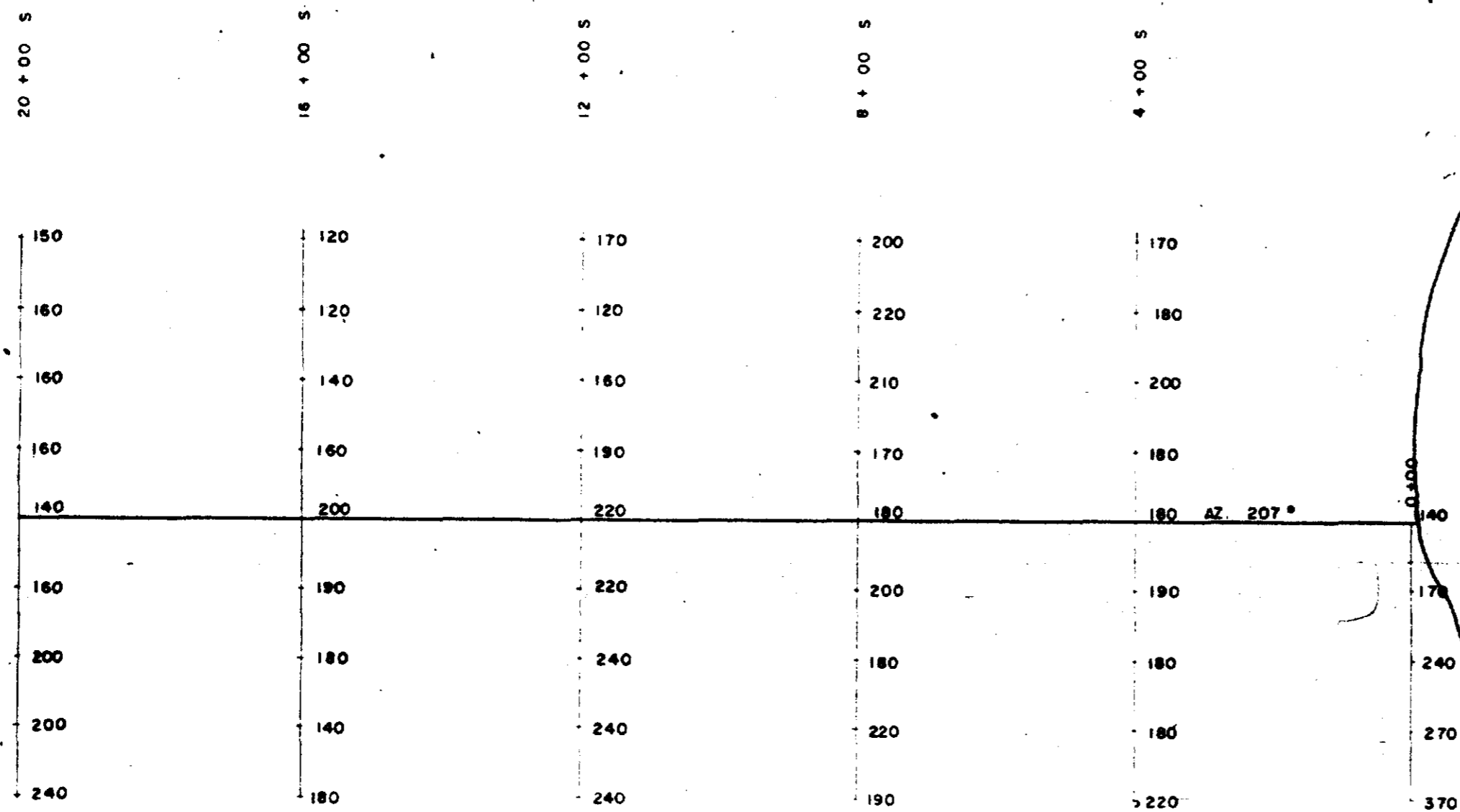
SCALE 1" = 200' JUNE 1968



LEGEND  
 M<sup>c</sup> PHAR R. E. M.

1000 C.P.S. | 5000 C.P.S.  
 ——— 1000 C.P.S.  
 - - - - 5000 C.P.S.  
 CONDUCTOR

SURVEYED BY BROADSIDE METHOD  
 TRANSMITTER 200' EAST OF RECEIVER ON LINES 0+00, 2+00, 4+00  
 TRANSMITTER 200' WEST OF RECEIVER ON LINE 6+00



AZ. 207°

PINE PORTAGE LAKE

GLASGOW-0013 44

ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT  
 BLOCK "C"  
 ANOMALY - 12  
 DERRY TWP.  
 MAGNETOMETER SURVEY  
 SCALE 1" = 200' JUNE 1958

12

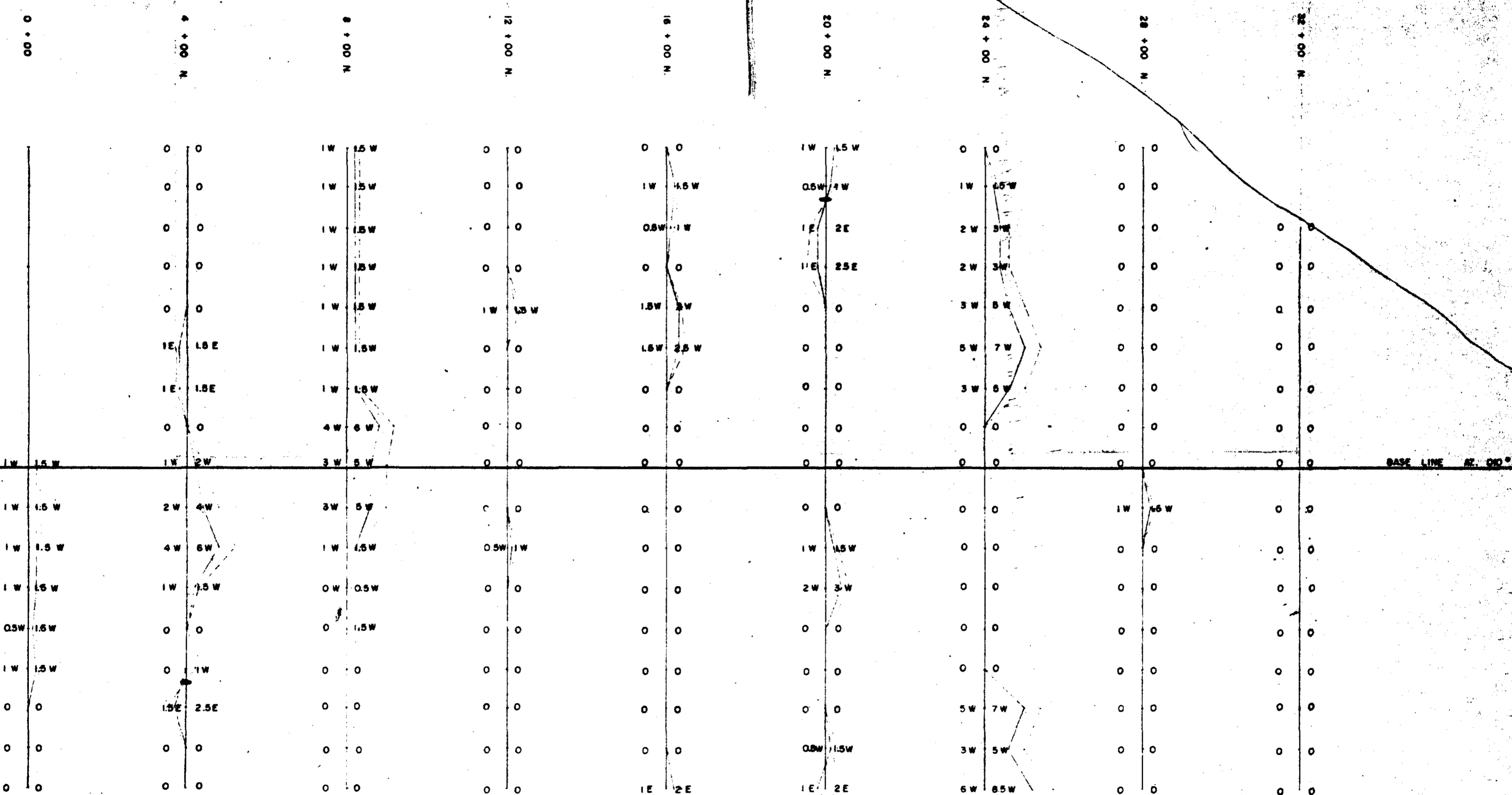
DERRY  
 ERMINE



42G12NE0002 0013 GLASGOW



CAMERON LAKE



GLASGOW - 0013 45

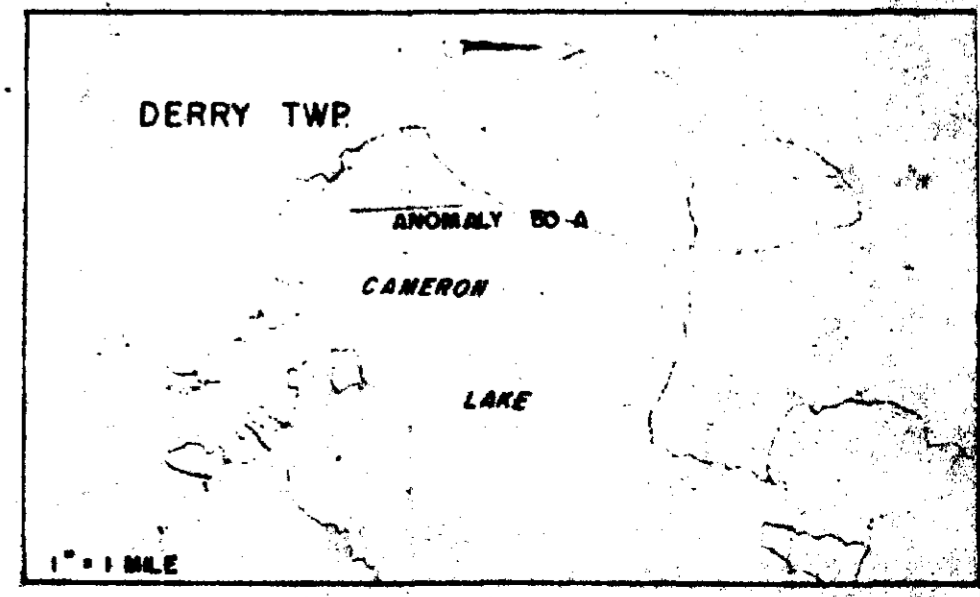


244

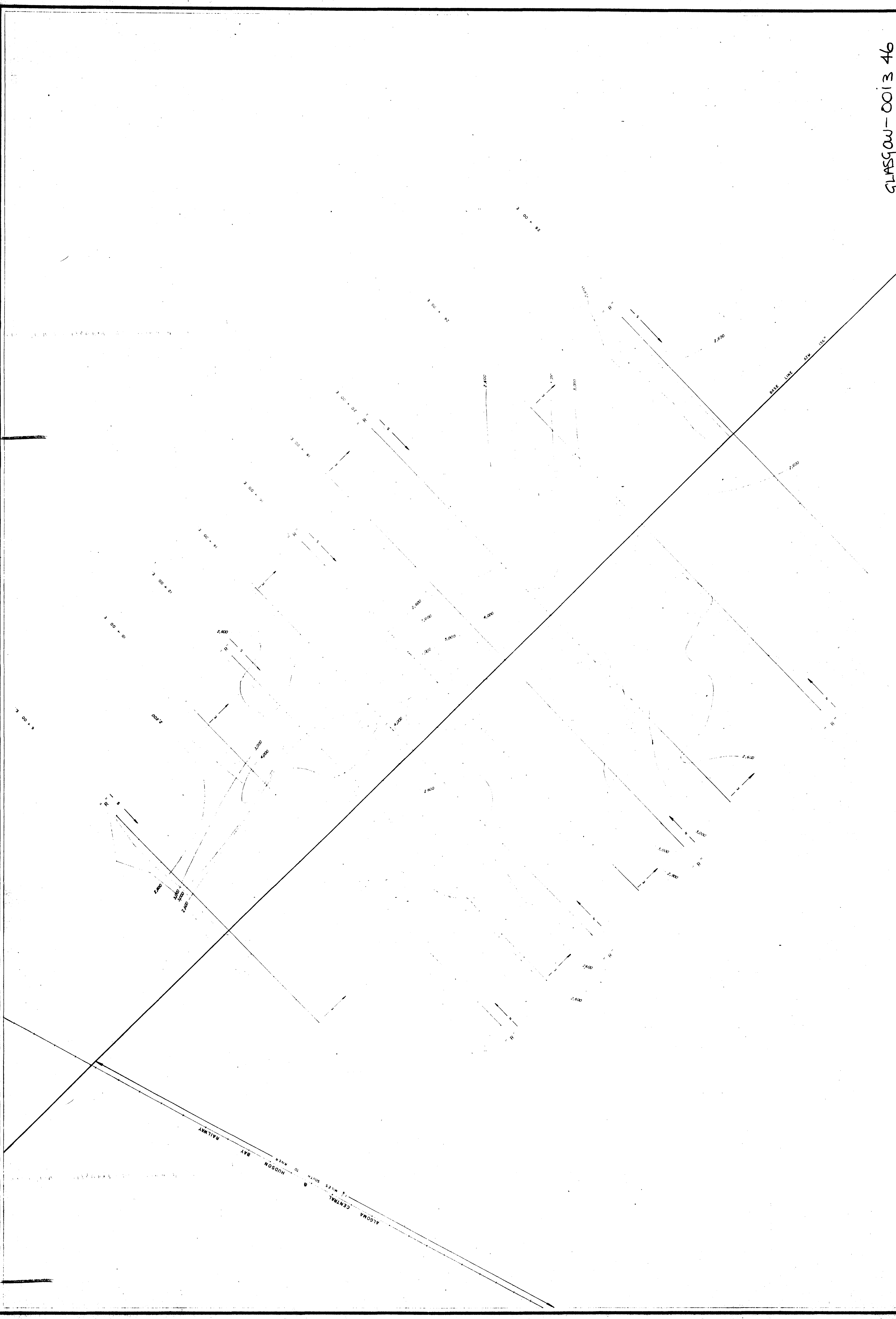
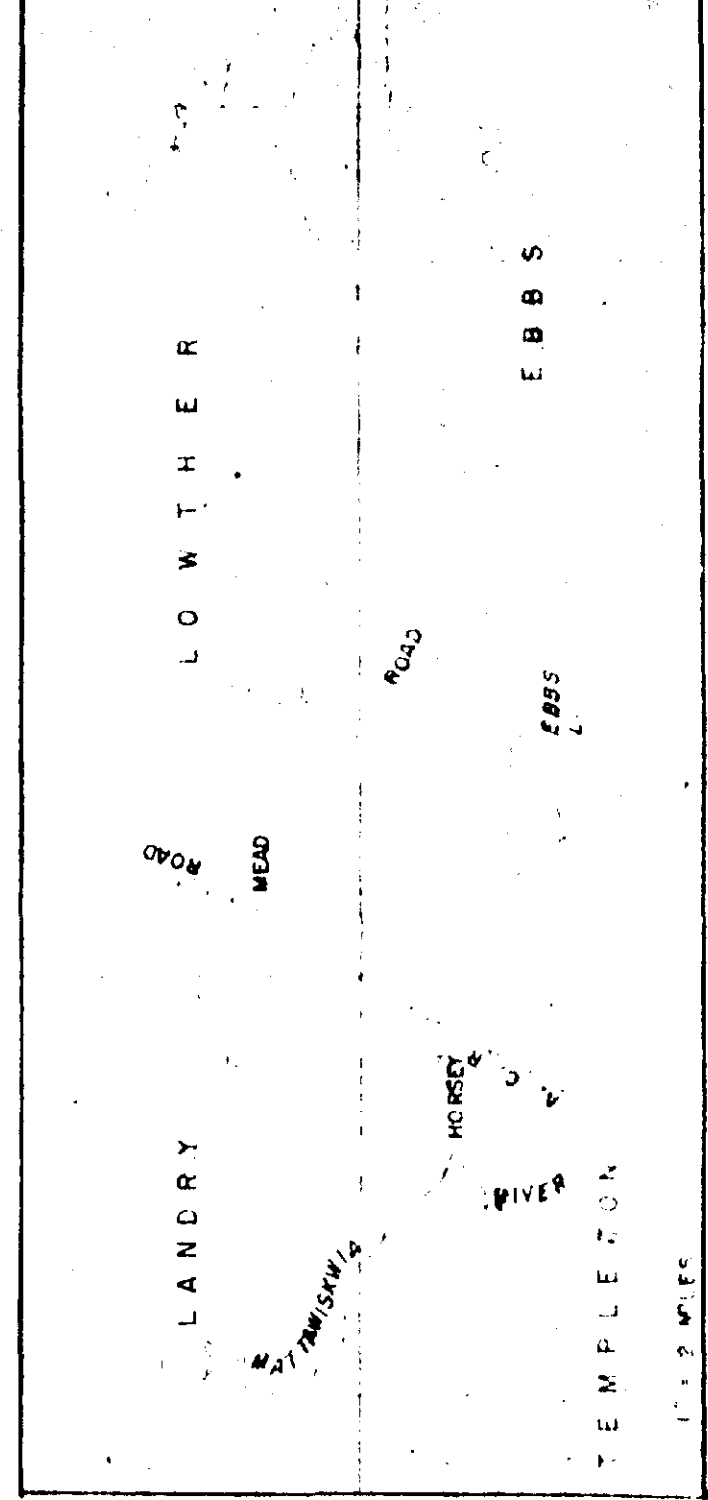
INSTRUMENT : M<sup>c</sup> PNAR VERTICAL LOOP R.E.M.  
 METHOD : BROADSIDE - 400' SPREAD  
 LEGEND : C.P.S. ——— 1000  
 C.P.S. - - - - - 5000  
 DIP ANGLES 2N 3N  
 (1000 C.P.S.) (5000 C.P.S.)  
 CROSS - OVERS  
 SCALE 1" = 10'

**ALGOMA ORE PROPERTIES LIMITED**  
**EXPLORATION DEPARTMENT**  
 ANOMALY NO. 50-A CENTRAL AREA  
 ELECTROMAGNETIC SURVEY

SCALE 1" = 200' APRIL 27, 1960



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ALGOMA ORE PROPERTIES LTD.

EXPLORATION DEPARTMENT

MAGNETOMETER 8

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

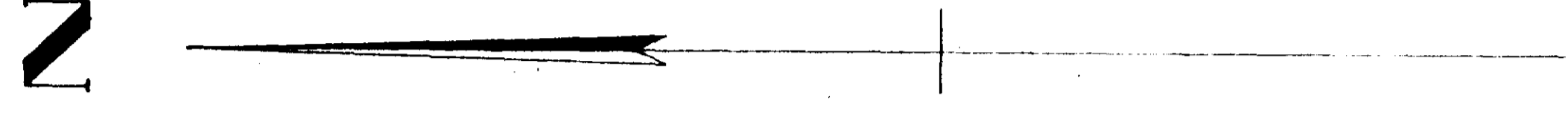
ANOMALY NO. 55 CENTRAL AREA

SCALE: 1" = 100' DEC. 5, 1946

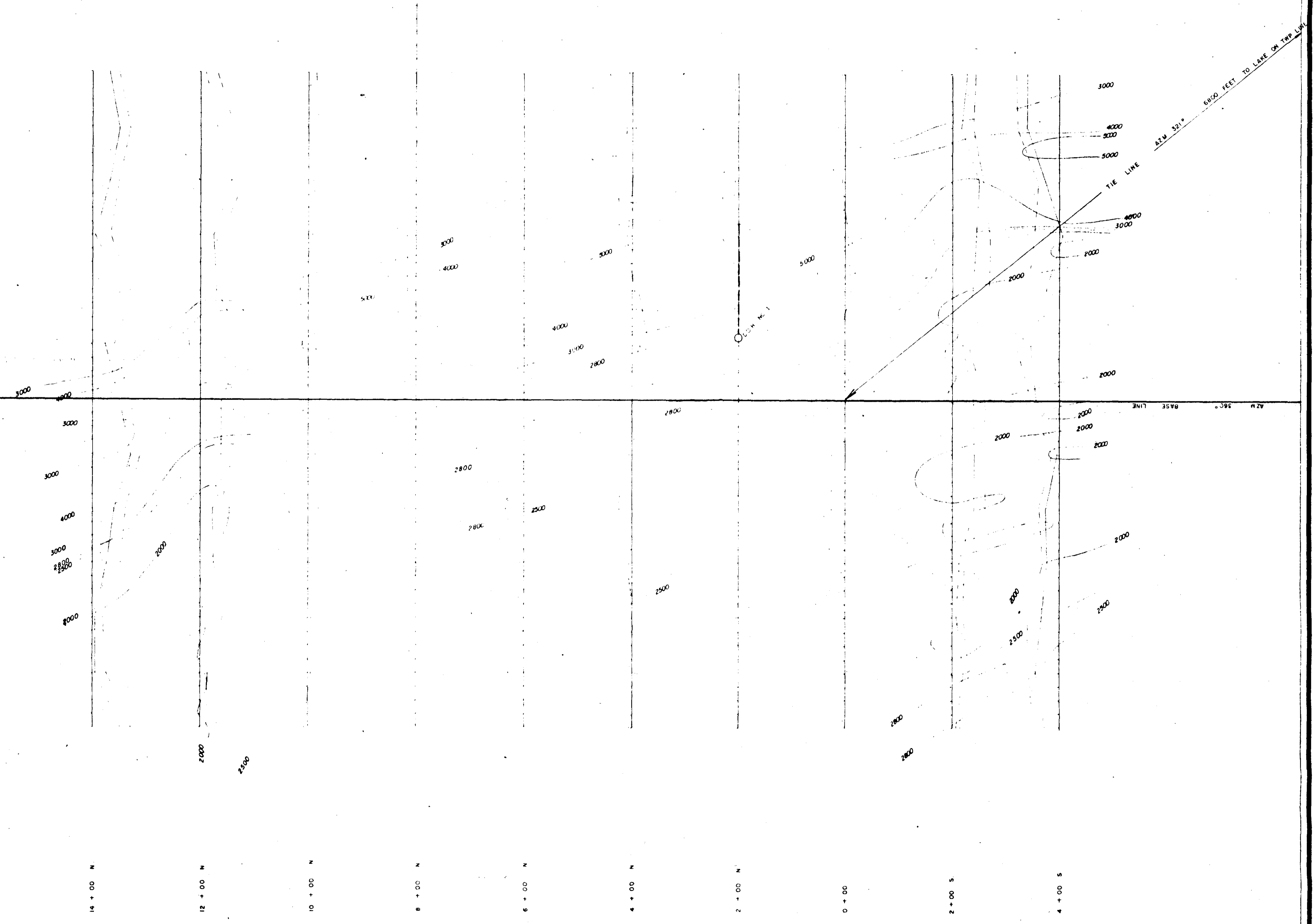
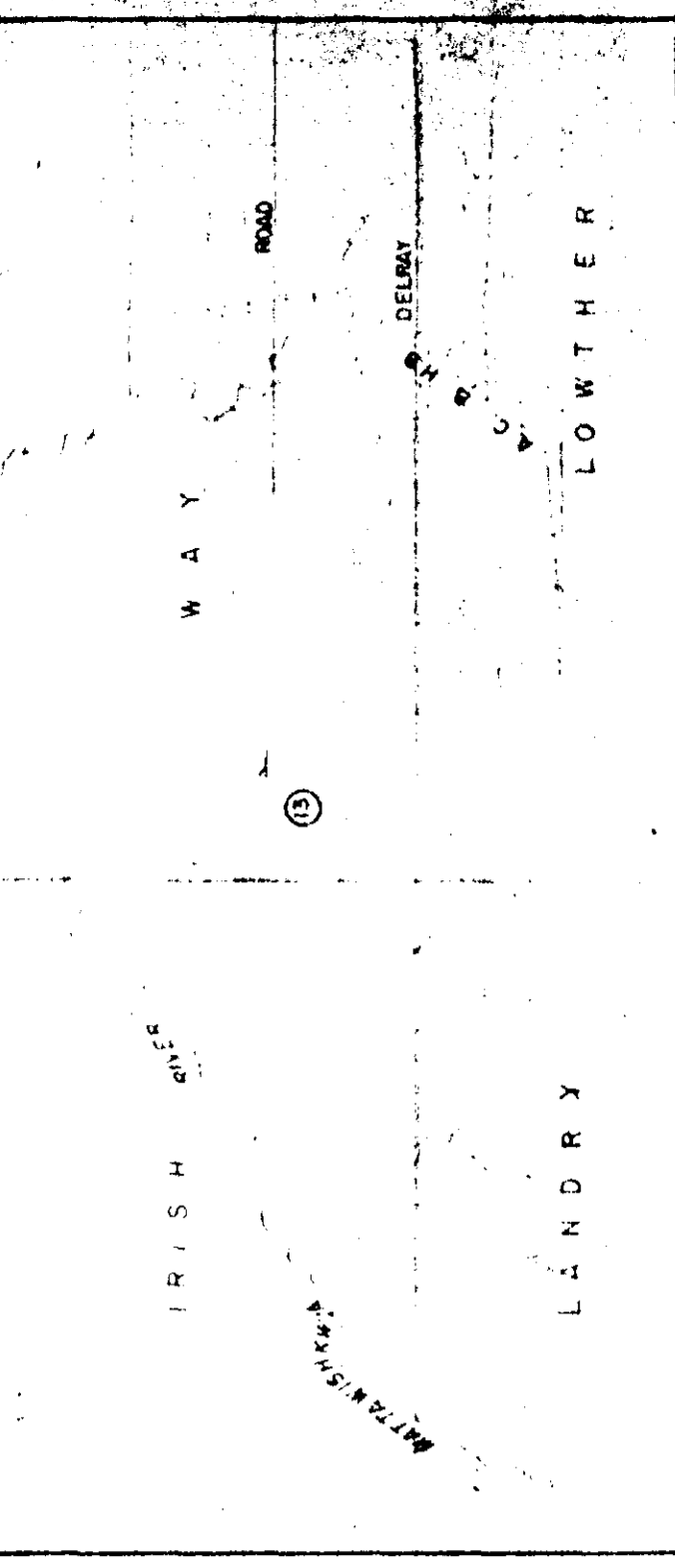
INSTRUMENT: "SUN" MODEL: A-2 MAGNETOMETER  
 MODEL: "SUN" MAGNETOMETER  
 MAKE: "SUN"  
 IN: "SUN"  
 SERIAL: "SUN"  
 DATE: "SUN"  
 SURVEY: "SUN"  
 AREA: "SUN"  
 LOCATION: "SUN"  
 SCALE: "SUN"  
 DATE: "SUN"  
 SURVEY: "SUN"  
 AREA: "SUN"  
 LOCATION: "SUN"







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ALGOMA ORE PROPERTIES LTD.

EXPLORATION DEPARTMENT

MAGNETOMETER &

VERTICAL LOOP ELECTROMAGNETIC SURVEY

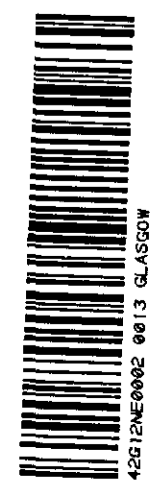
ANOMALY NO. 13 NORTH AREA

SCALE: 1" = 100' NO. 20, 1966

WAY T-1

RETURNSHIP SHEET NO. 1-2 MAGNETOMETER

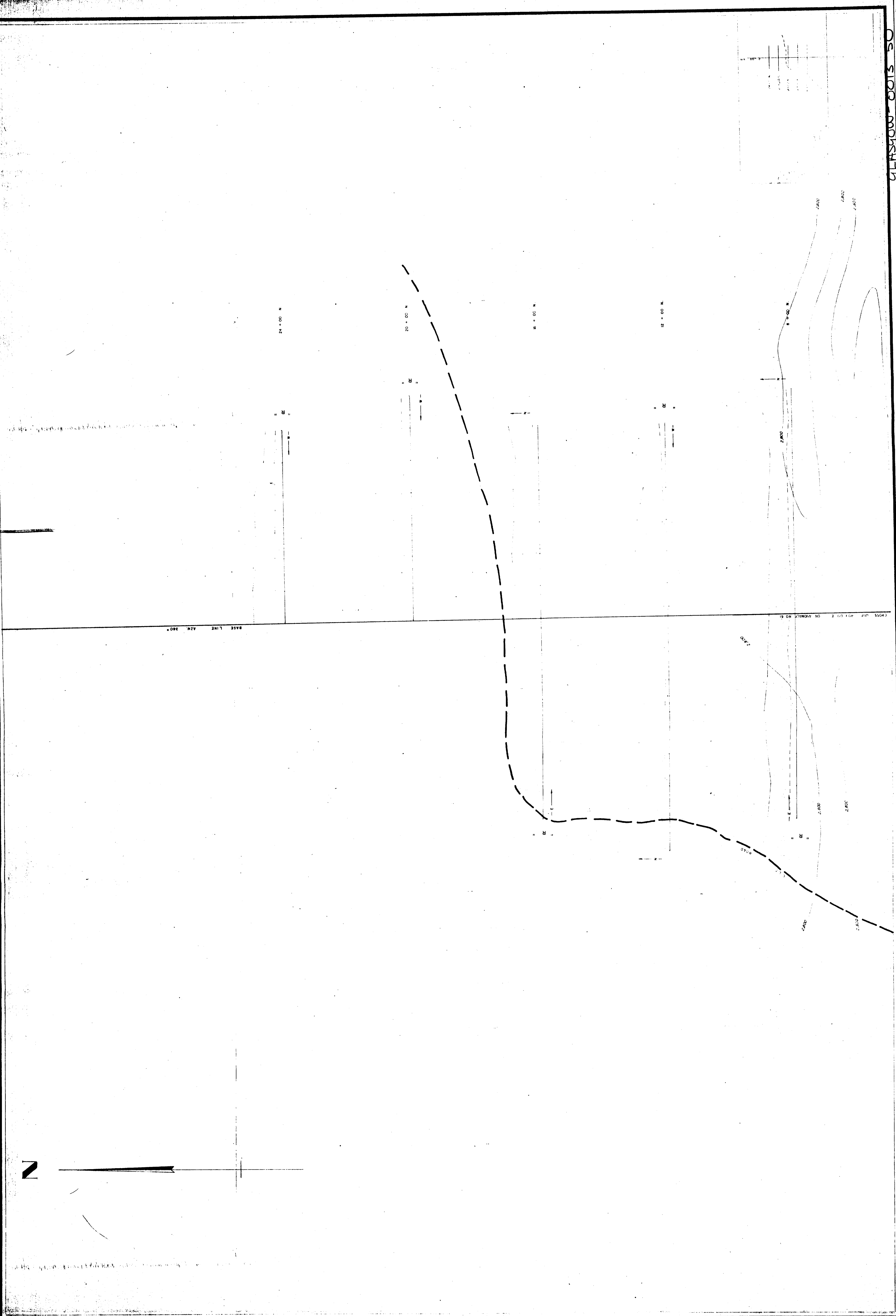
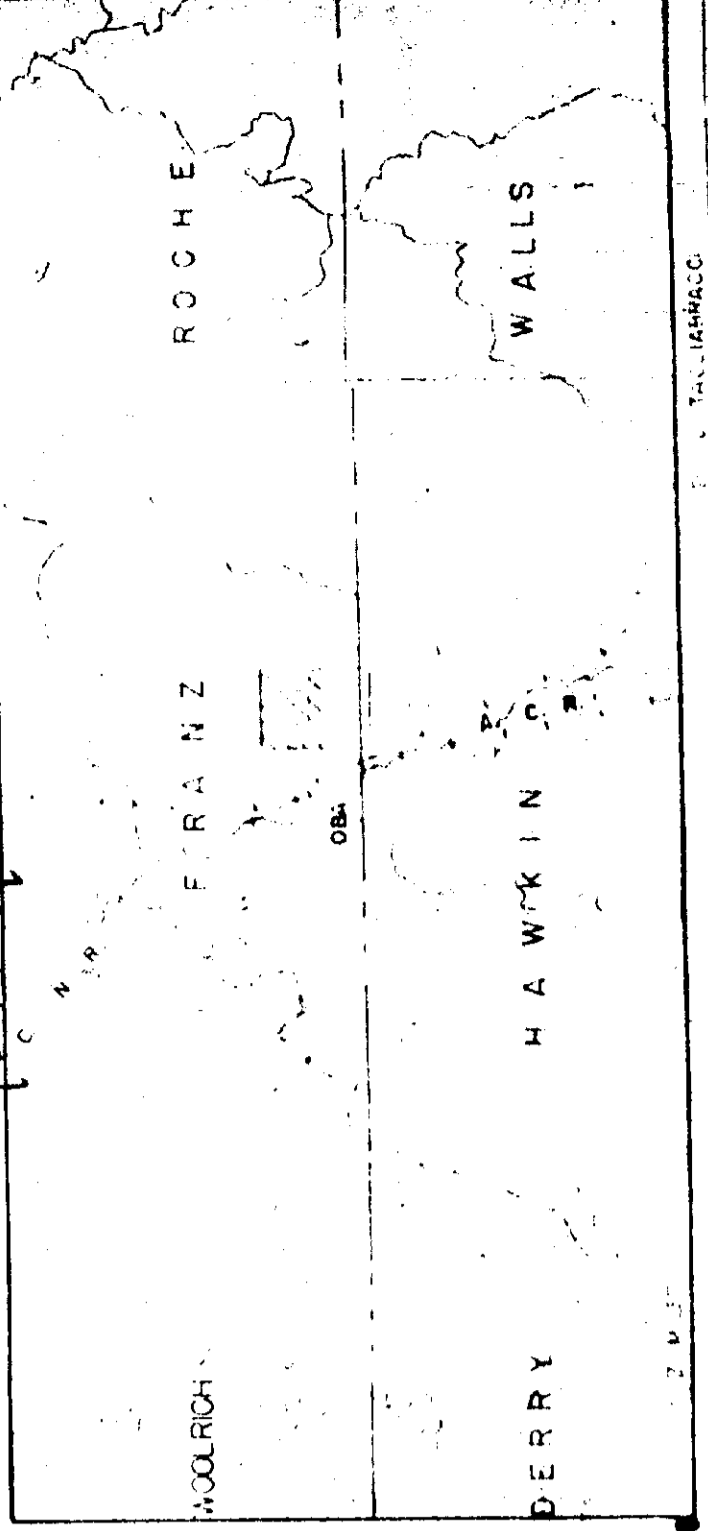
ALGOMA ORE PROPERTIES LTD.  
EXPLORATION DEPARTMENT  
MAGNETOMETER &  
VERTICAL LOOP ELECTROMAGNETIC SURVEY  
ANOMALY NO. 13 NORTH AREA  
SCALE: 1" = 100'







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ALGOMA ORE PROPERTIES LTD.

EXPLORATION DEPARTMENT

MAGNETOMETER 8

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

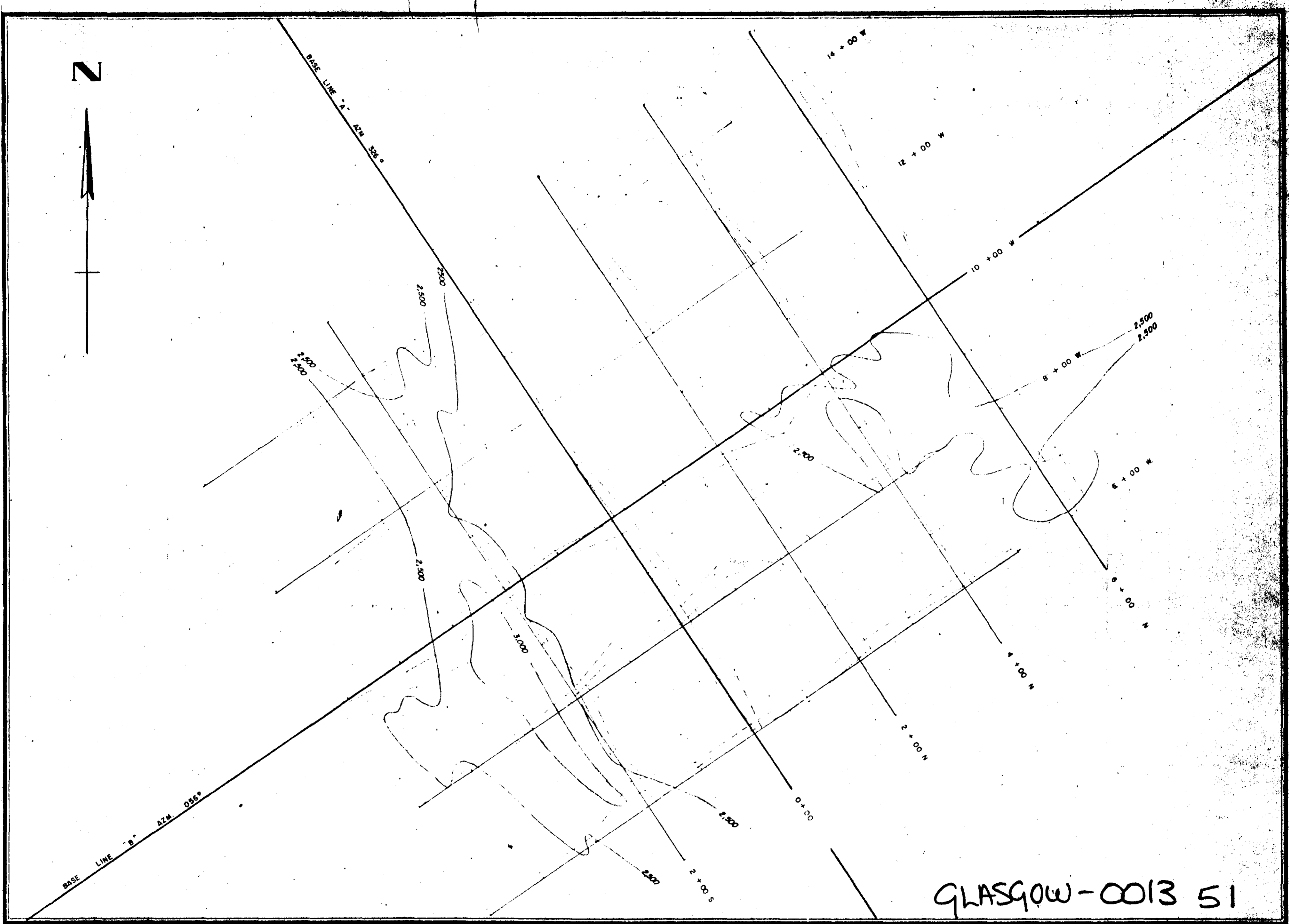
ANOMALY NO. 61A CENTRAL AREA

FRANZ TWP

METHOD OF SURVEY: ...  
 DATE: ...  
 SCALE: ...  
 IN USE FOR: ...  
 METHOD: ...  
 AREA: ...  
 DIRECTION OF SURVEY: ...  
 DIRECTION IN WHICH THE SURVEY WAS MADE: ...  
 NAME OF PROPERTY: ...  
 COMMENTS: ...







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INSTRUMENT "SHARP" MODEL A-2 MAGNETOMETER

INSTRUMENT MOPHAR R.E.M.  
 METHOD BROADSIDE 200' SPREAD  
 LEGEND  
 C.P.S. ——— 1000  
 C.P.S. - - - - 2000  
 DIP ANGLES 2N | 5N  
 (1000 C.P.S.) (2000 C.P.S.)  
 CROSS — OVER  
 SCALE: 1" = 100'

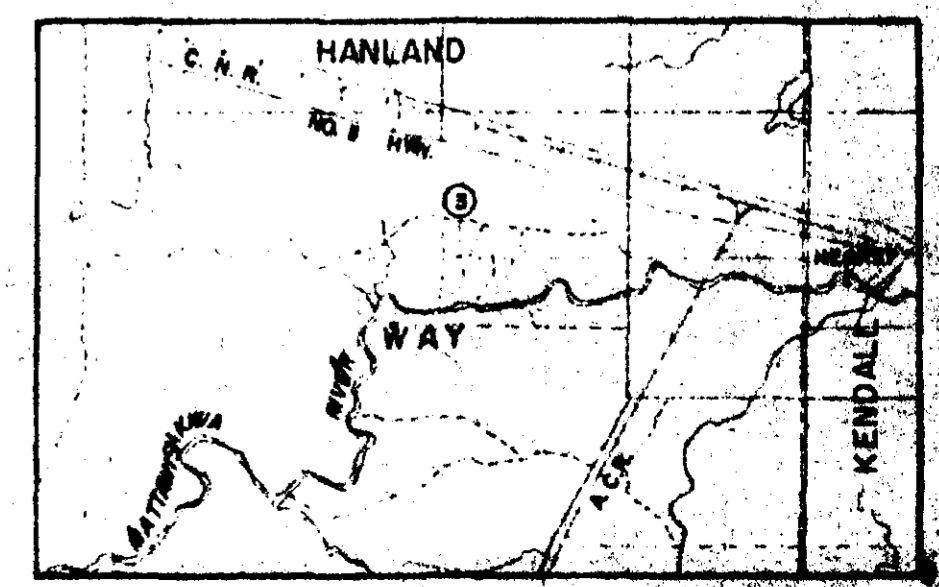
**ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT**

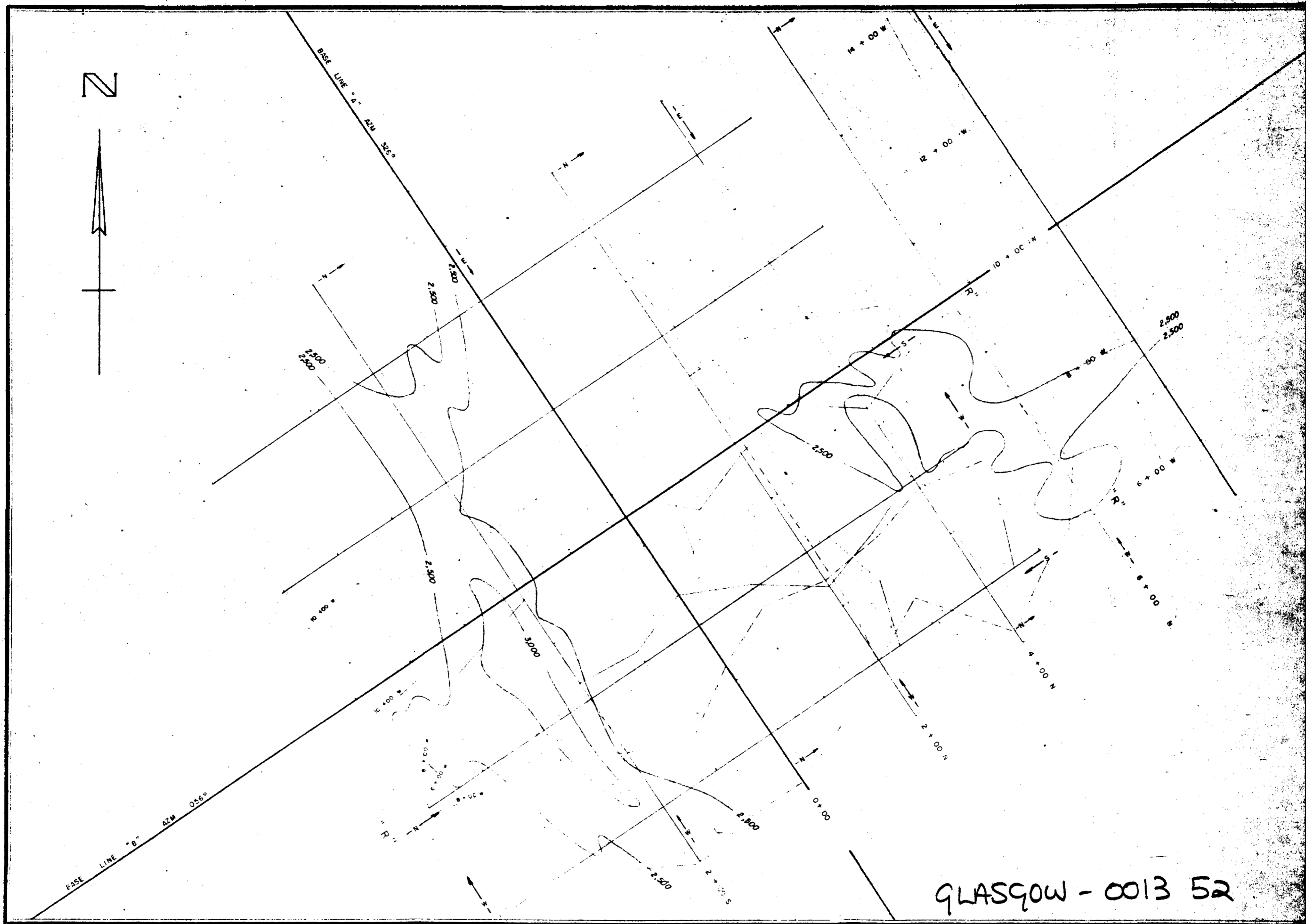
MAGNETOMETER &  
 VERTICAL LOOP ELECTROMAGNETIC SURVEY

ANOMALY NO. 8 NORTH AREA

SCALE 1" = 100' DATE 8. 1962

WAY TWP.





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INSTRUMENT "SHARP" MODEL A-2 MAGNETOMETER

ALGOMA ORE PROPERTIES LIMITED  
EXPLORATION DEPARTMENT

INSTRUMENT RONKA MARK IV  
METHOD IN LINE 300' SPREAD  
LEGEND:  
IN PHASE READINGS ———  
OUT OF PHASE READINGS - - - -  
+5 +C  
IN OUT OF  
PHASE PHASE  
"R" POSITION OF RECEIVER AT START OF LINE  
"N" DIRECTION IN WHICH LINE WAS RUN  
" " 10% OF PRIMARY FIELD

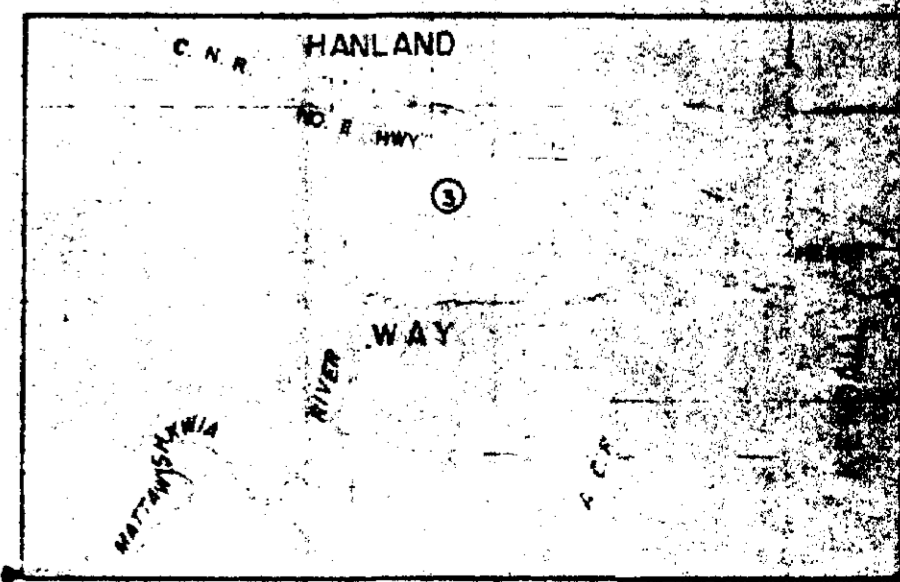
MAGNETOMETER B

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

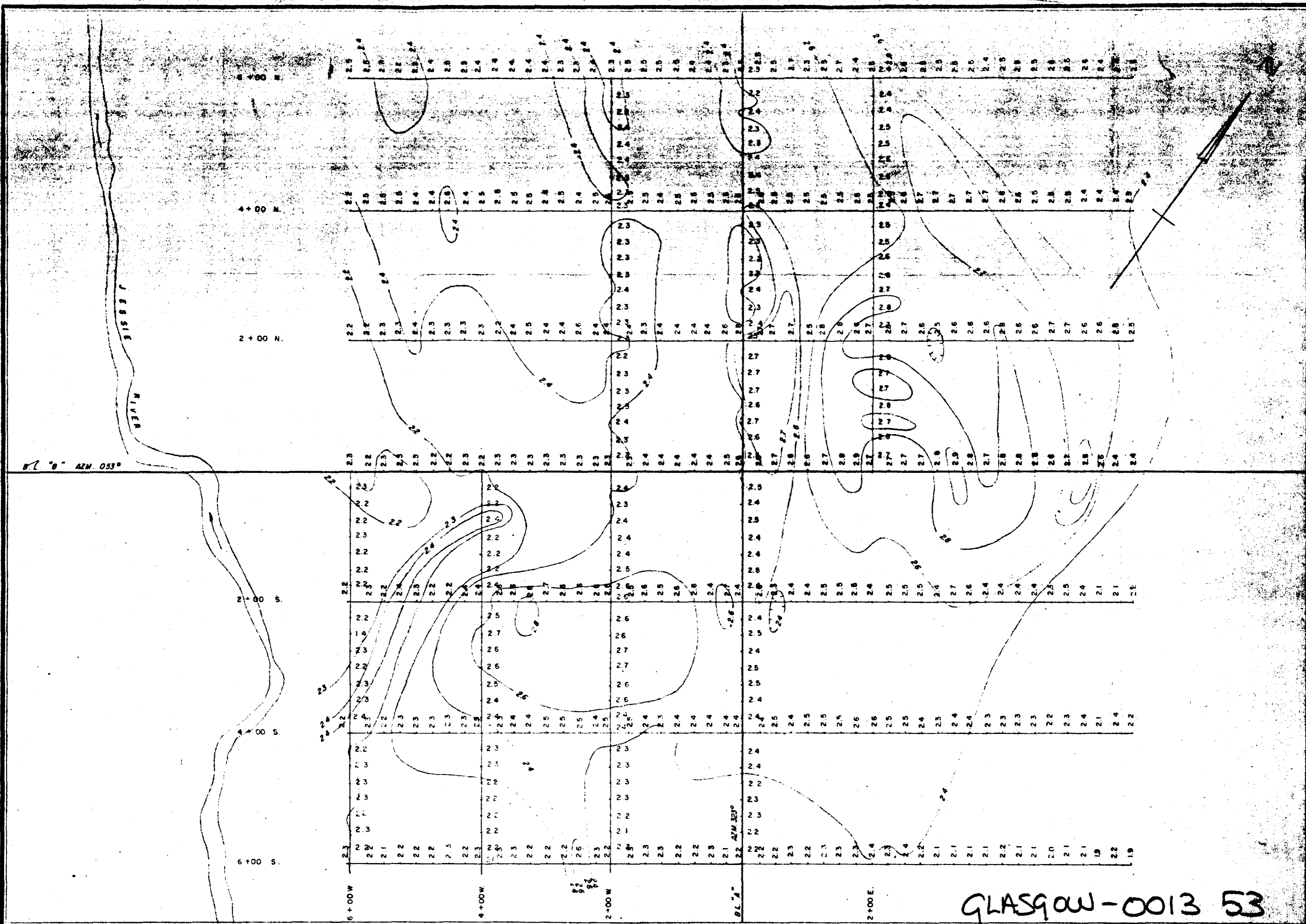
ANOMALY NO. 3 NORTH AREA

SCALE 1" = 100' DEC. 11, 1961

WAY TWP.



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**LEGEND**

INSTRUMENT "SHARPE" MODEL A-2 MAGNETOMETER  
 READINGS IN GAMMAS

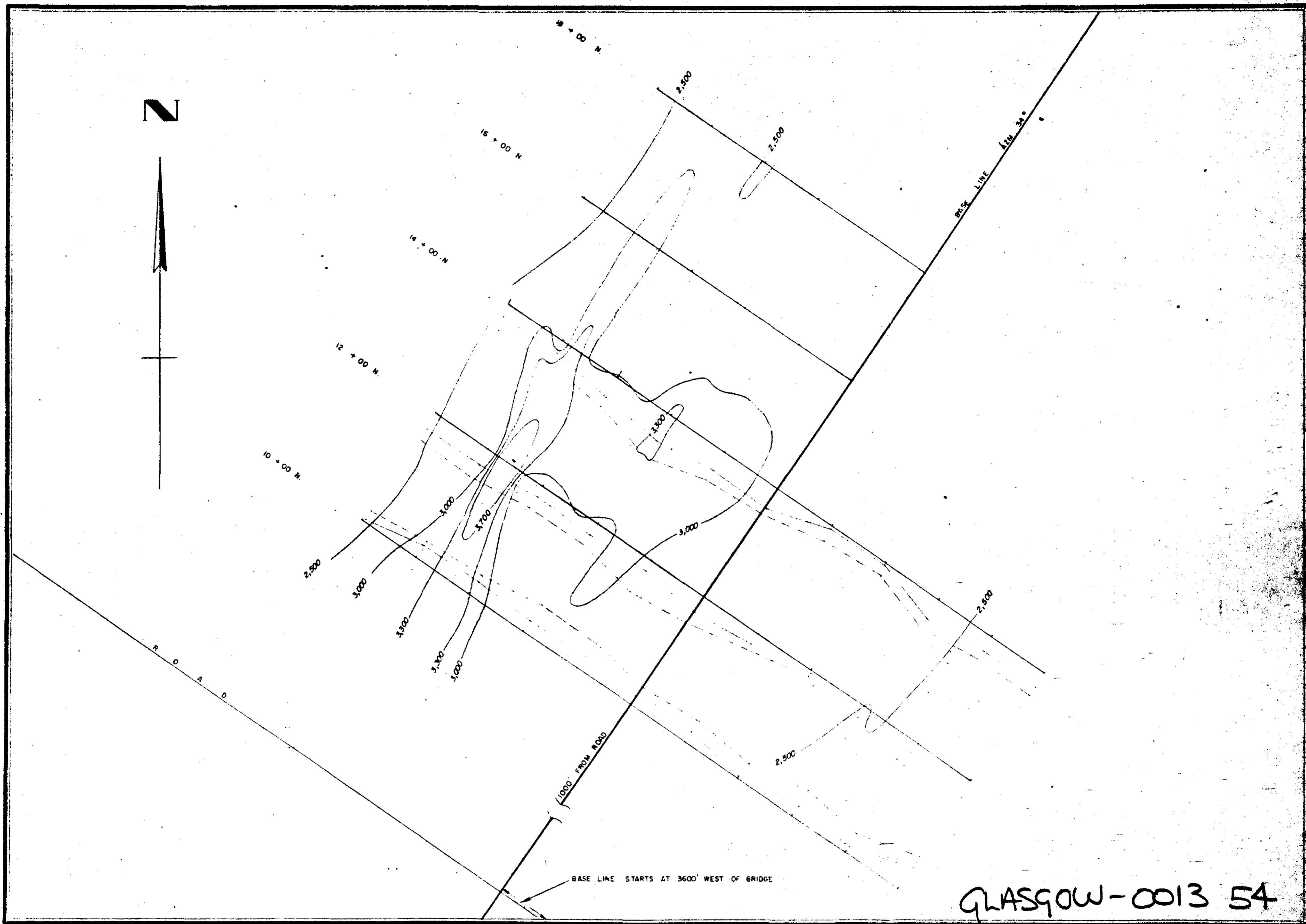
**ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT**

**ANOMALY NO. 24 NORTH AREA  
 MAGNETOMETER SURVEY**

SCALE 1" = 100' NOV. 14, 1961

WAY TWP.





INSTRUMENT "SHARP" MODEL A-2 MAGNETOMETER

ALGOMA ORE PROPERTIES LIMITED  
EXPLORATION DEPARTMENT

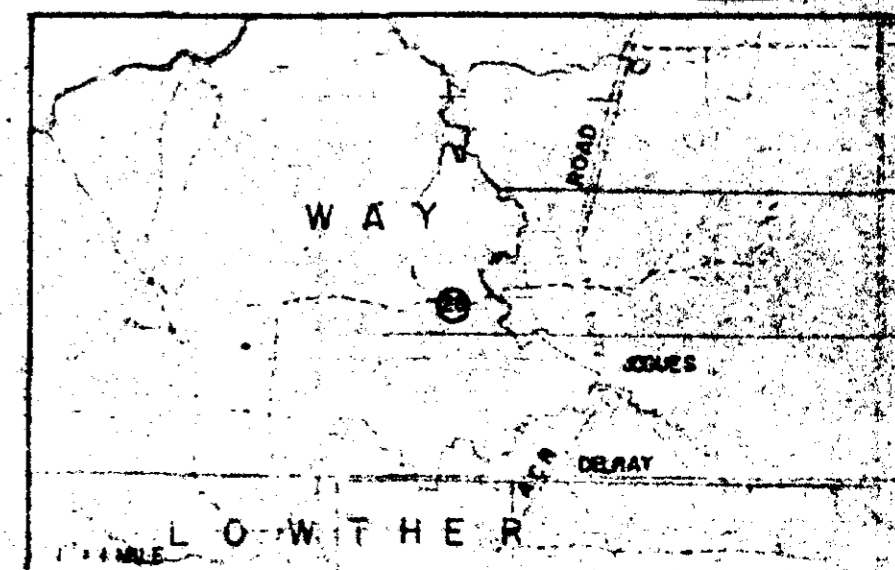
INSTRUMENT WPMAR REM  
METHOD BROADSIDE 200' SPREAD  
LEGEND  
CRS ——— 1000  
CPS - - - - 9000  
DIP ANGLES 2N 3N  
(1000 CPS) (5000 CPS)

MAGNETOMETER 8  
VERTICAL LOOP ELECTROMAGNETIC SURVEY

ANOMALY NO. 28 NORTH AREA

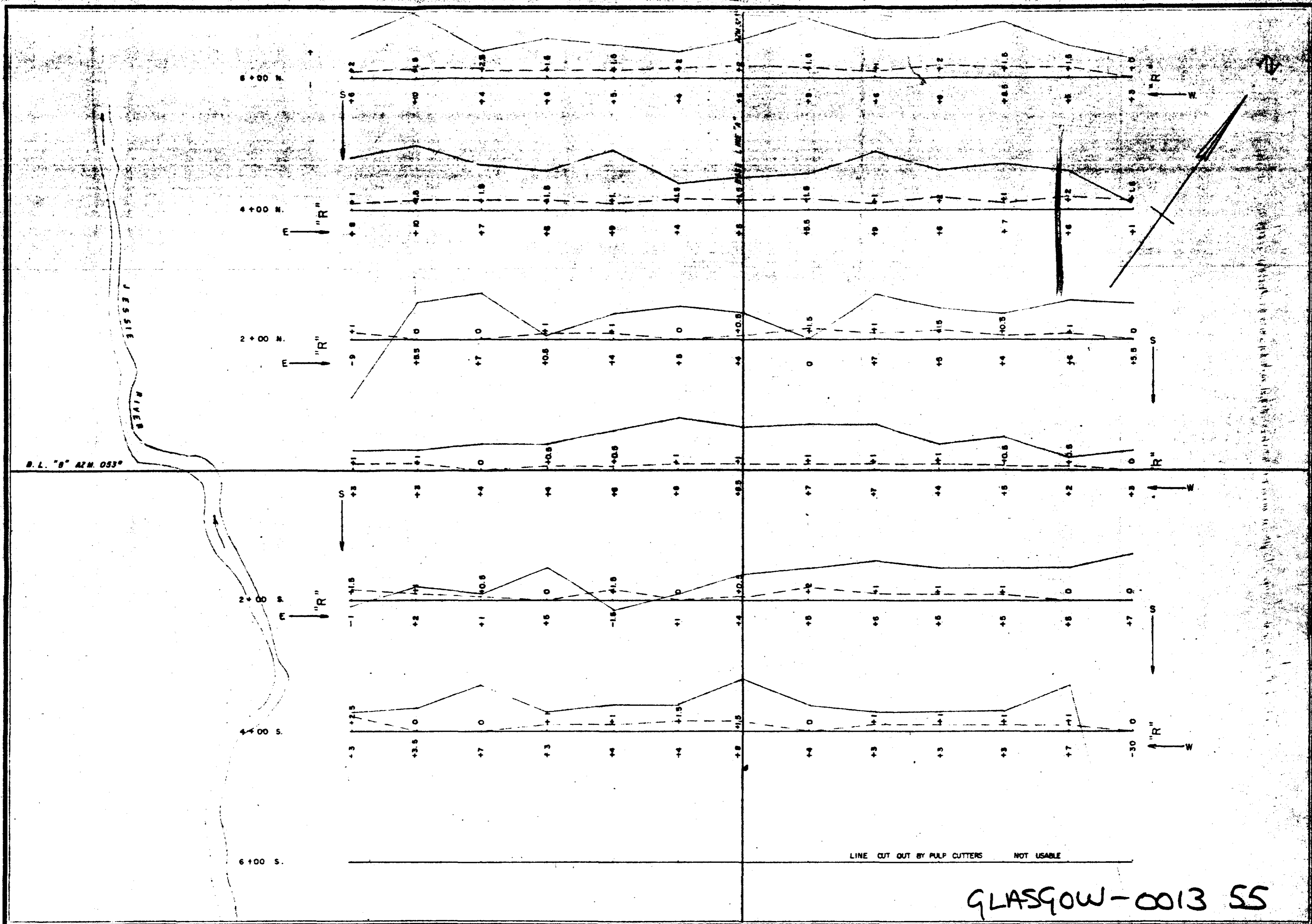
SCALE 1" = 100' DEC 12, 1961

WAY TWP



42G12NE0002 0013 GLASGOW





GLASGOW-0013 55

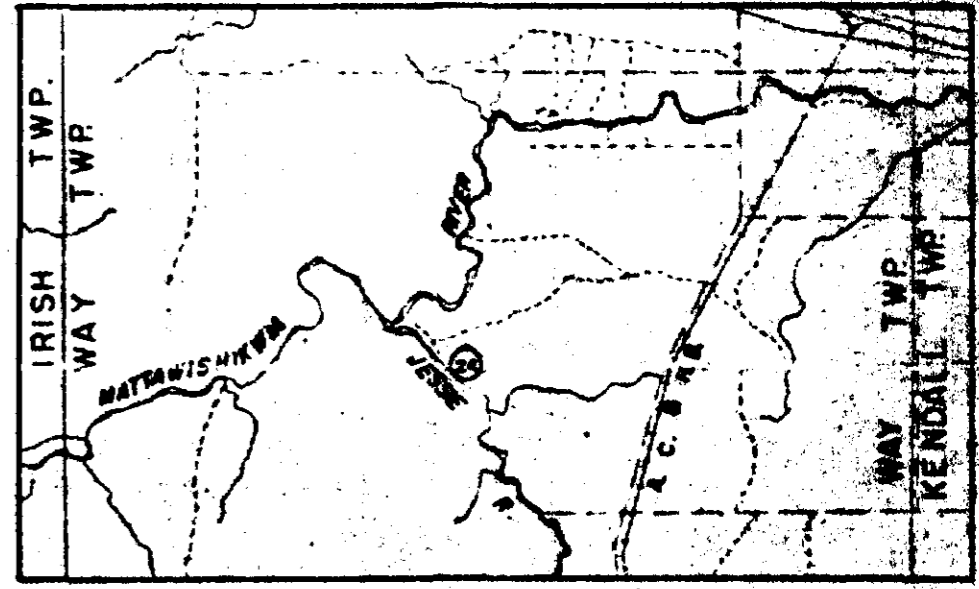
ALGOMA ORE PROPERTIES LIMITED  
EXPLORATION DEPARTMENT

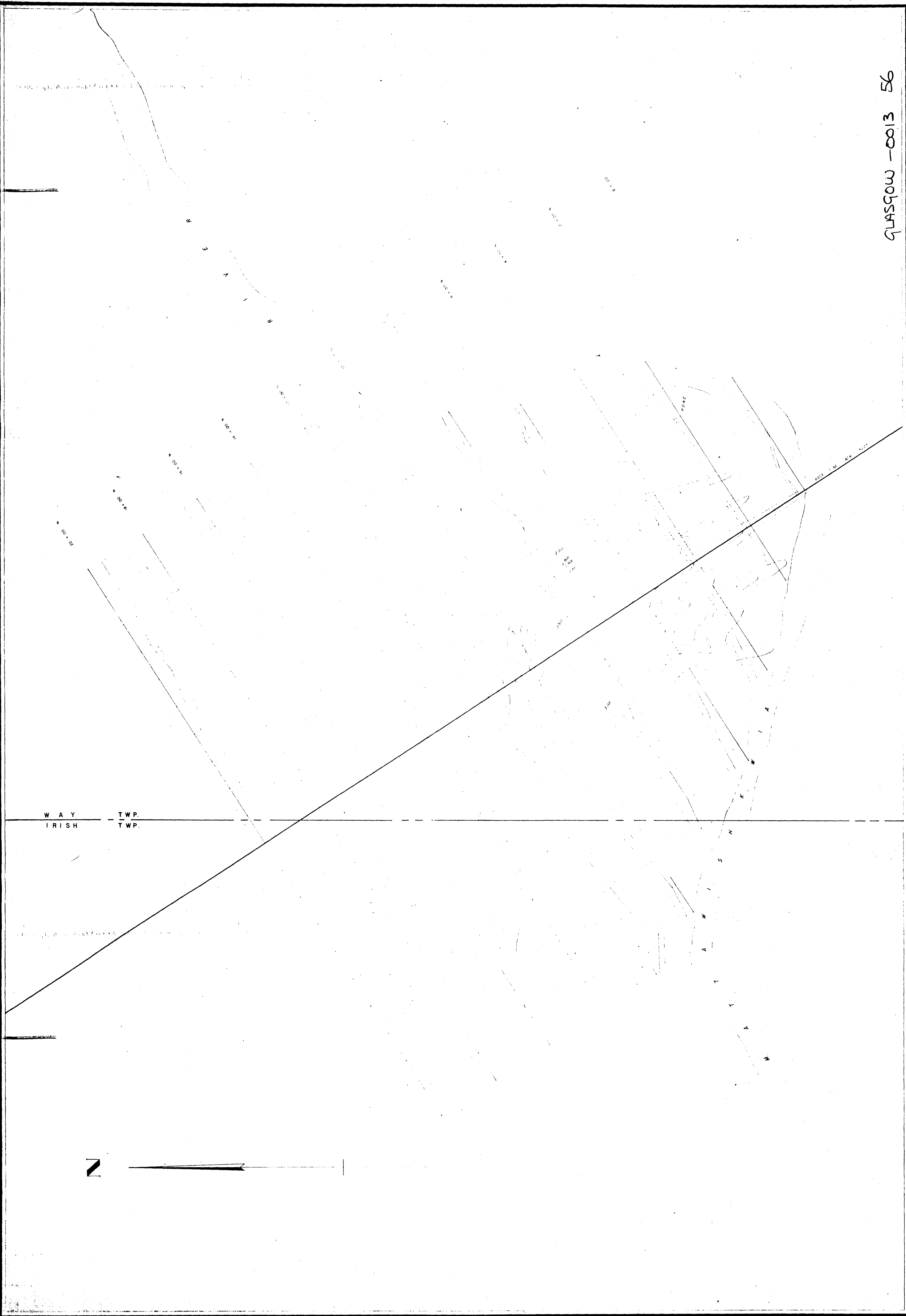
ANOMALY NO. 24 NORTH AREA  
HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

SCALE 1" = 100' NOV. 14, 1961

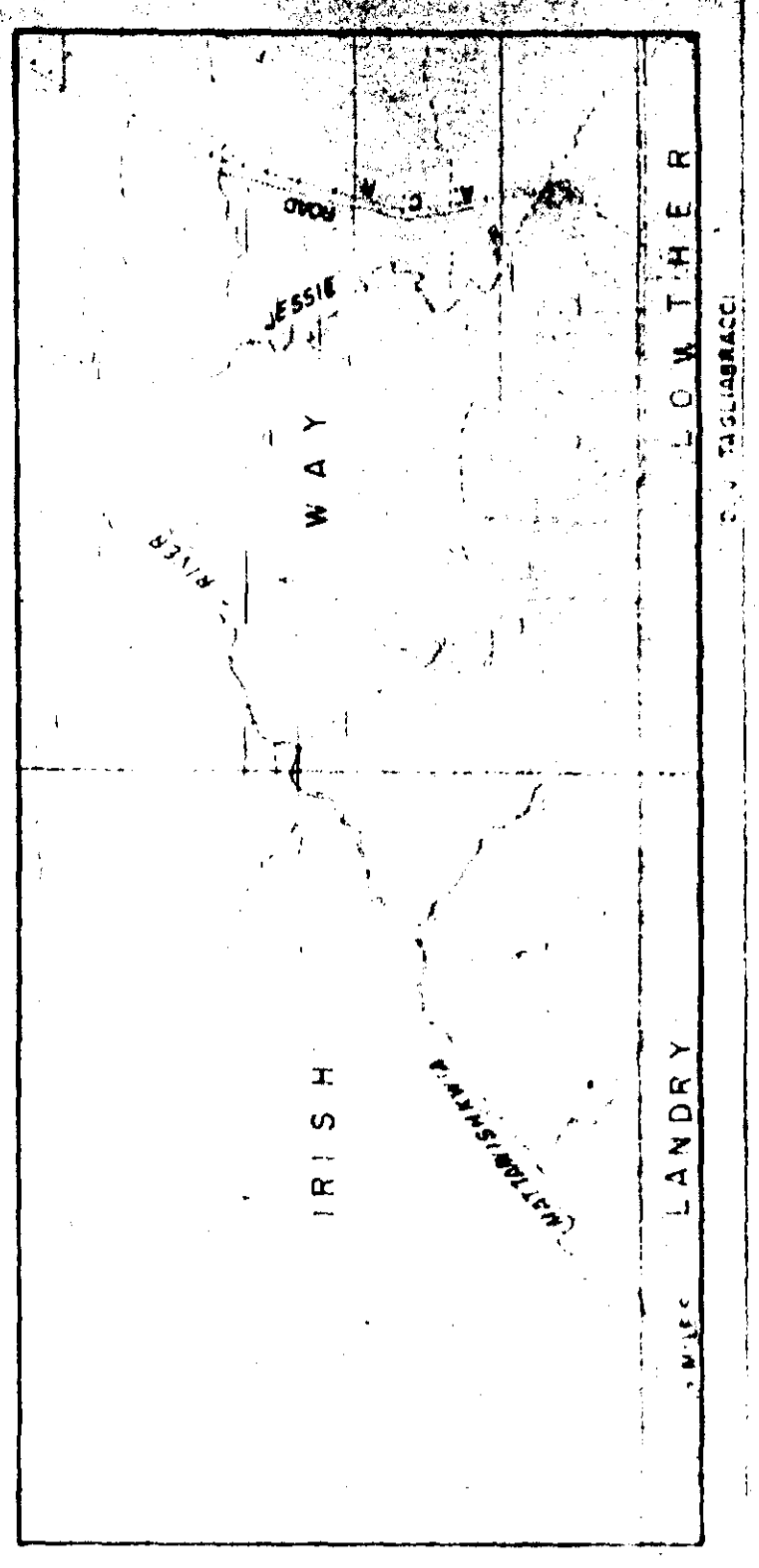
Way Twp.

INSTRUMENT: RONKA MARK IV  
METHOD: IN LINE 300' SPREAD  
LEGEND:  
IN PHASE READINGS ———  
OUT OF PHASE READINGS - - - -  
+S +S  
IN OUT OF  
PHASE PHASE  
"R" POSITION OF RECEIVER AT START OF LINE  
↑ DIRECTION IN WHICH LINE WAS RUN  
1" = 10% OF PRIMARY FIELD





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ALGOMA ORE PROPERTIES LTD.  
 EXPLORATION DEPARTMENT  
 MAGNETOMETER &  
 VERTICAL LOOP ELECTROMAGNETIC SURVEY  
 ANOMALY NO. 9 NORTH AREA

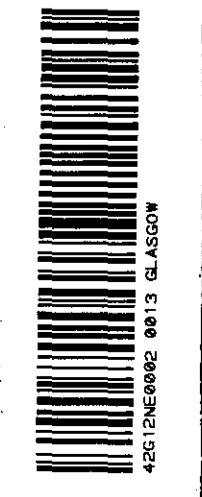
WAY TWP

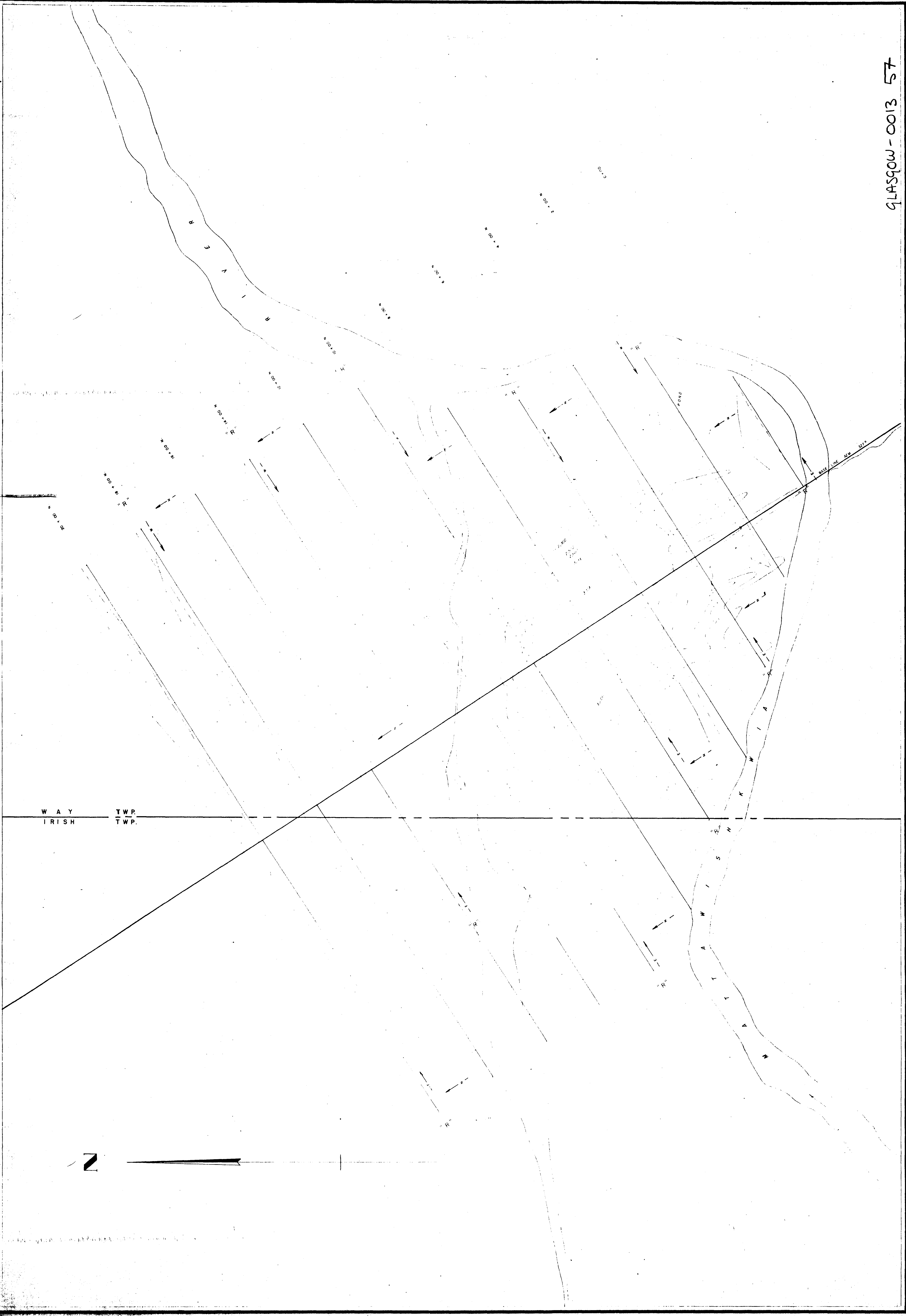
SCALE 1" = 100' NO. 23 744

WAY IRISH TWP.  
 TWP.

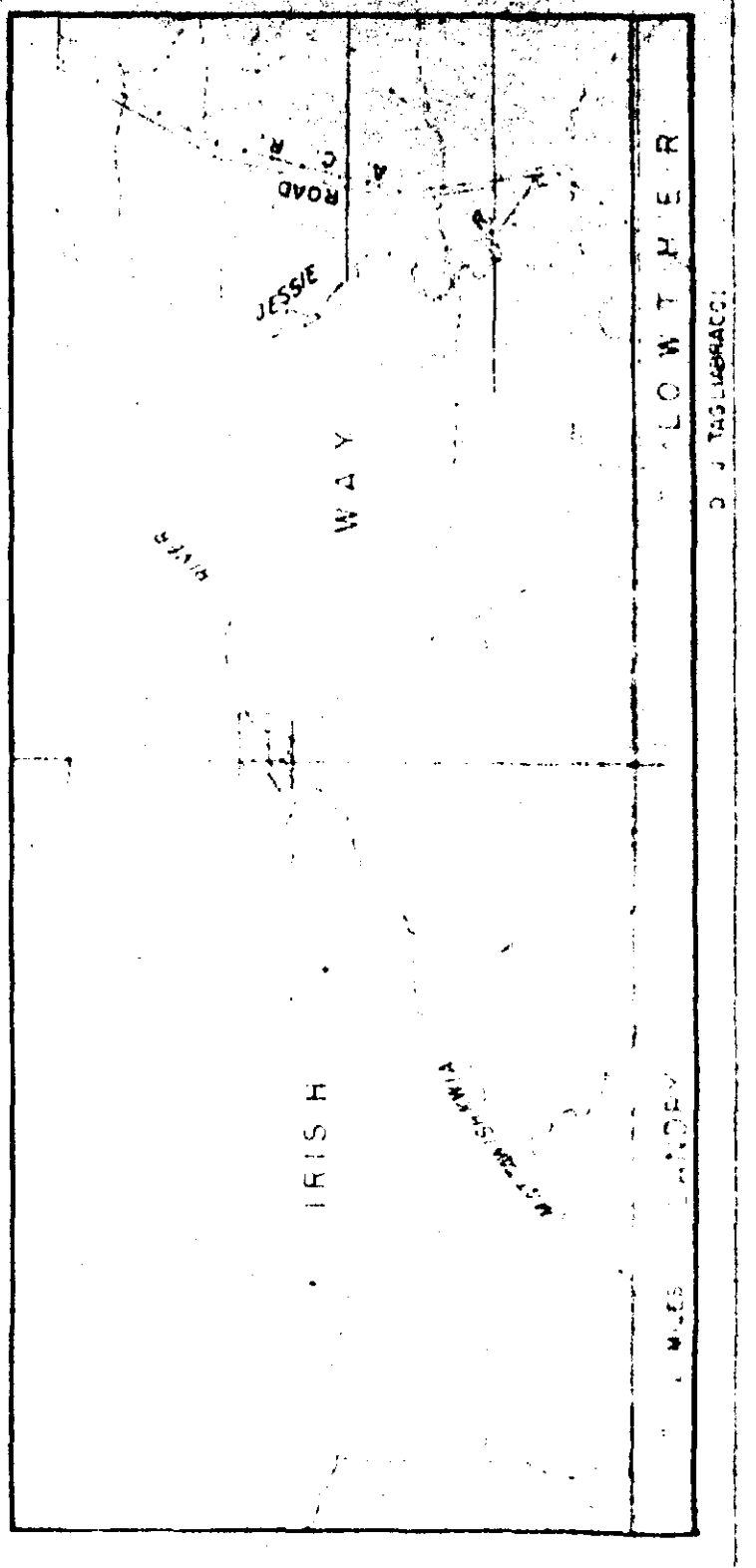


INSTRUMENT "JANET" MODEL A-7 MAGNETOMETER  
 WINDING S.E.E.  
 COILS 1000  
 SPEED 1000  
 OF ANOMALY 100 FT  
 (1000 FT) (1000 FT)  
 CROSS - SECTION  
 SCALE 1" = 100'





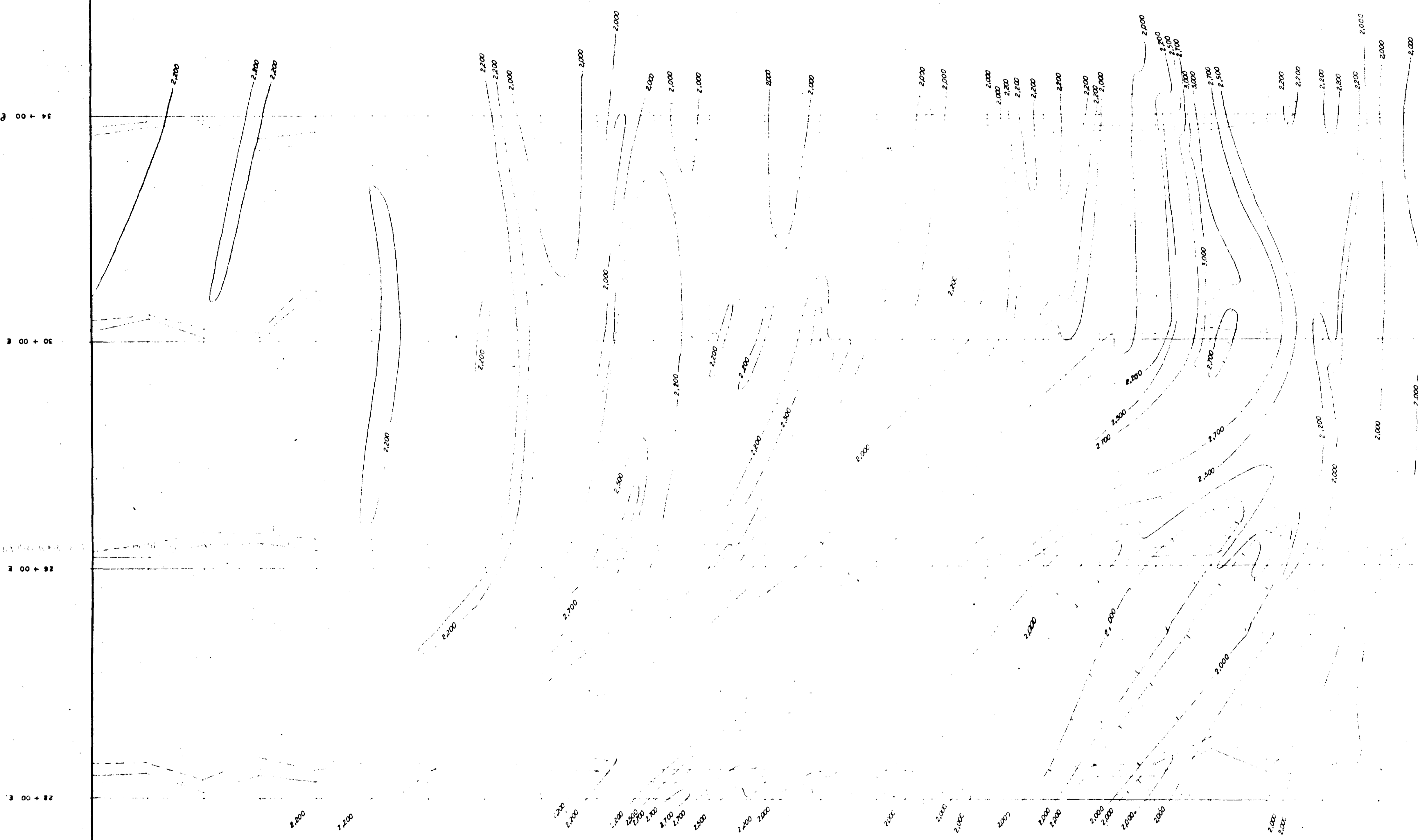
GLASGOW - 0013 57



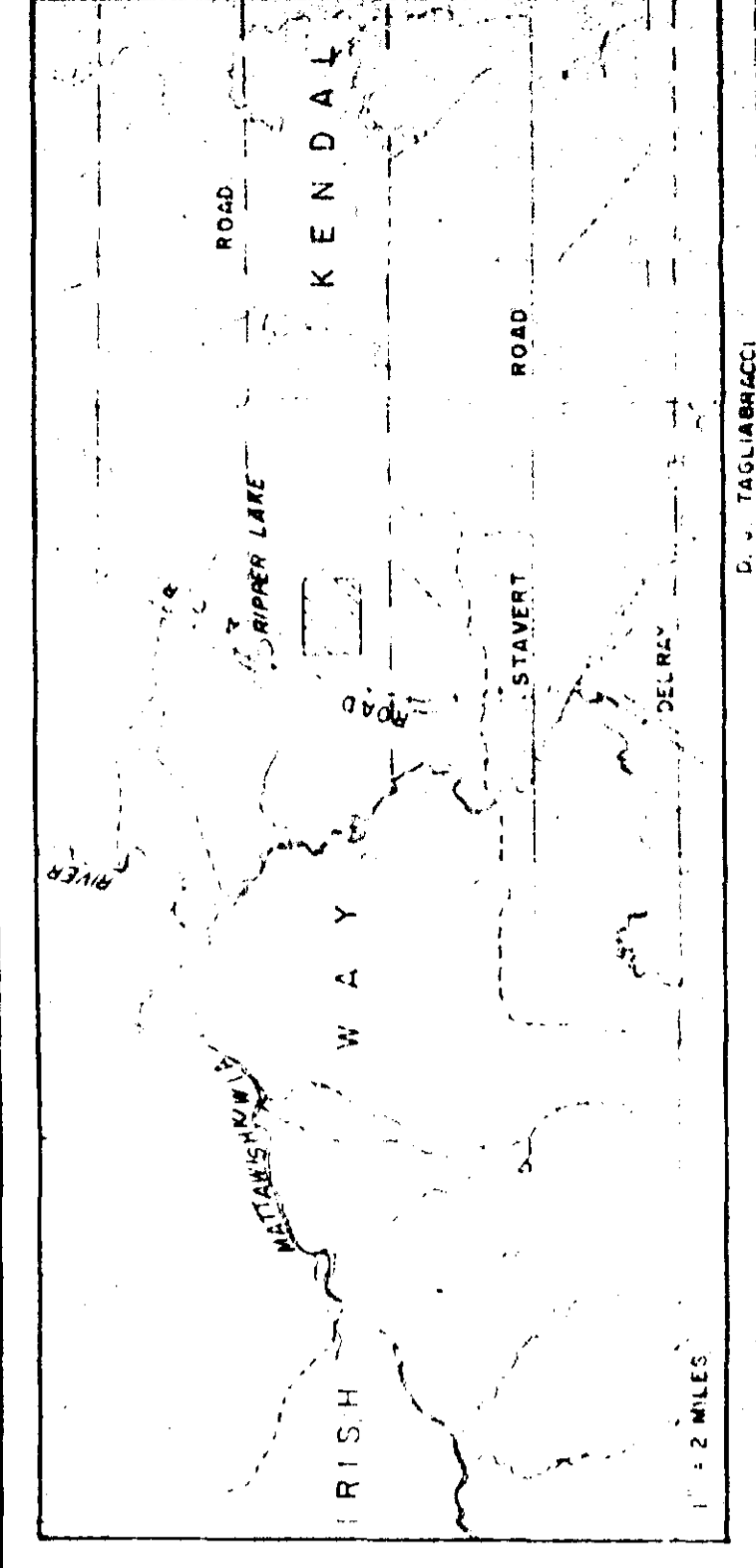
ALGOMA ORE PROPERTIES LTD.  
 EXPLORATION DEPARTMENT  
 MAGNETOMETER 8  
 HORIZONTAL LOOP ELECTROMAGNETIC SURVEY  
 ANOMALY NO. 9 NORTH AREA  
 SCALE 1" = 100' 1" = 30.48m  
 V.I.C. T.W.P.

ATTACHED SHEET NO. 122 NORTH W. 1/2  
 DISTRICT NO. 100  
 TOWNSHIP NO. 100  
 RANGE NO. 100  
 SECTION NO. 100  
 POSITION OF CENTER POINT OF LINE  
 1" = 100' 1" = 30.48m  
 CONDUCTOR





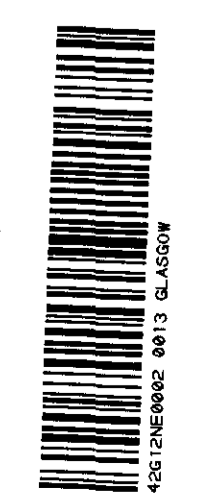
GLASGOW-0013 58



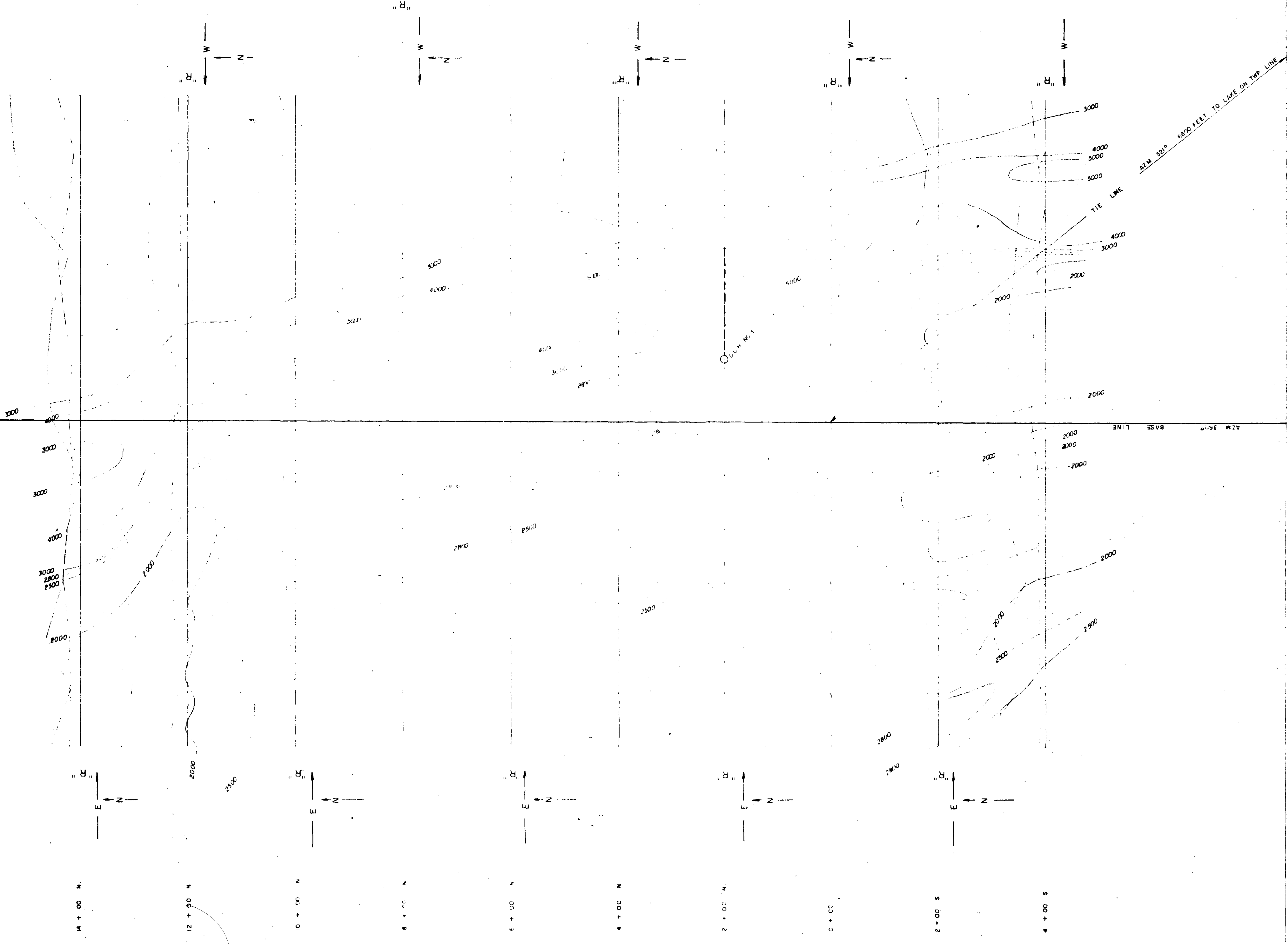
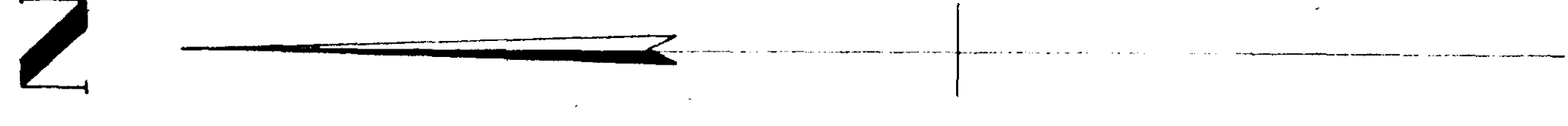
ALGOMA ORE PROPERTIES LTD.  
 EXPLORATION DEPARTMENT  
 MAGNETOMETER 8  
 VERTICAL LOOP ELECTROMAGNETIC SURVEY  
 ANOMALY NO. 5 NORTH AREA

WAY J. P.

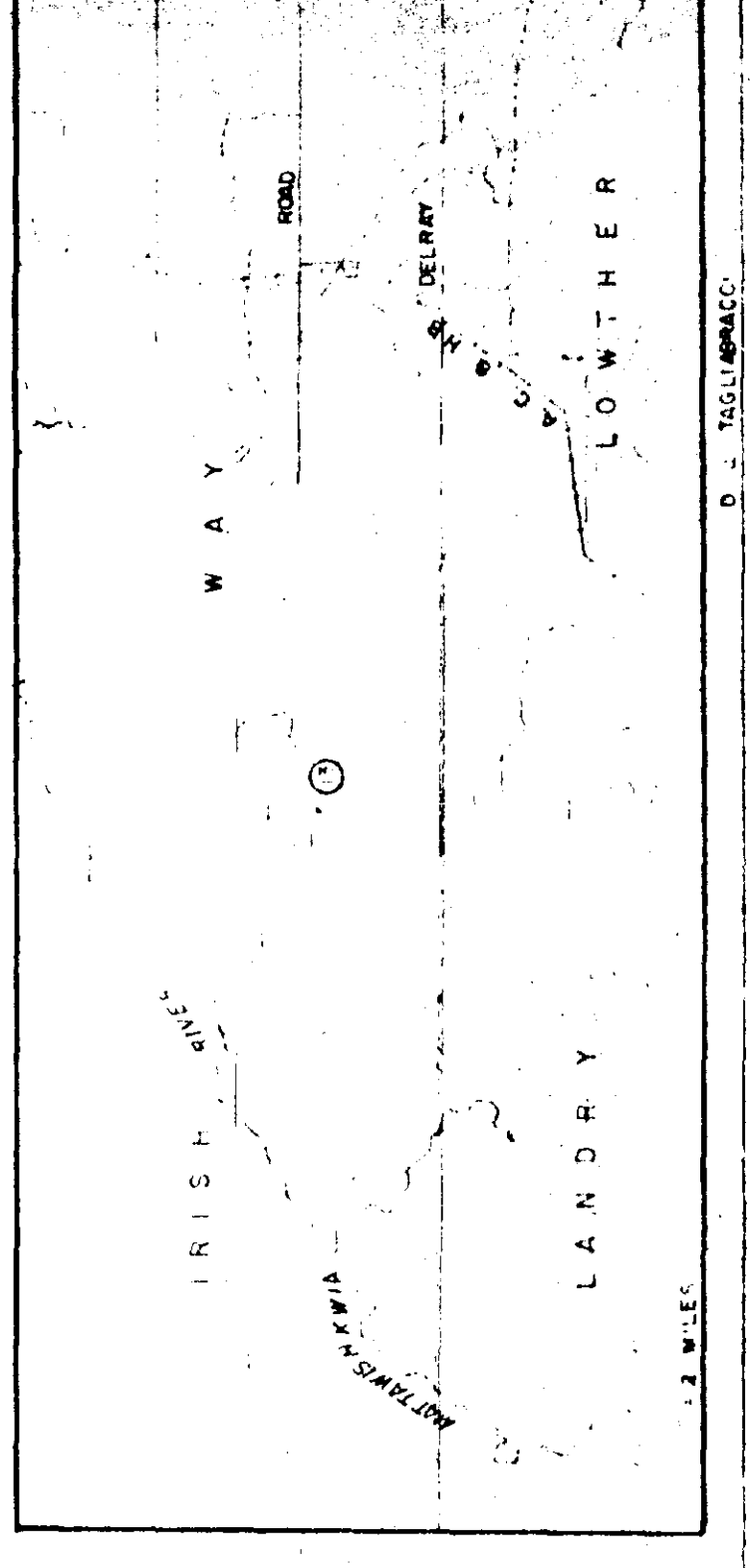
INSTRUMENT: "SHAW" MODEL A-7 MAGNETOMETER  
 DATE: 1954  
 SCALE: 1" = 100'







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ALGOMA ORE PROPERTIES LTD.

EXPLORATION DEPARTMENT  
MAGNETOMETER 8

HORIZONTAL LOOP ELECTROMAGNETIC SURVEY  
ANOMALY NO. 13 NORTH AREA

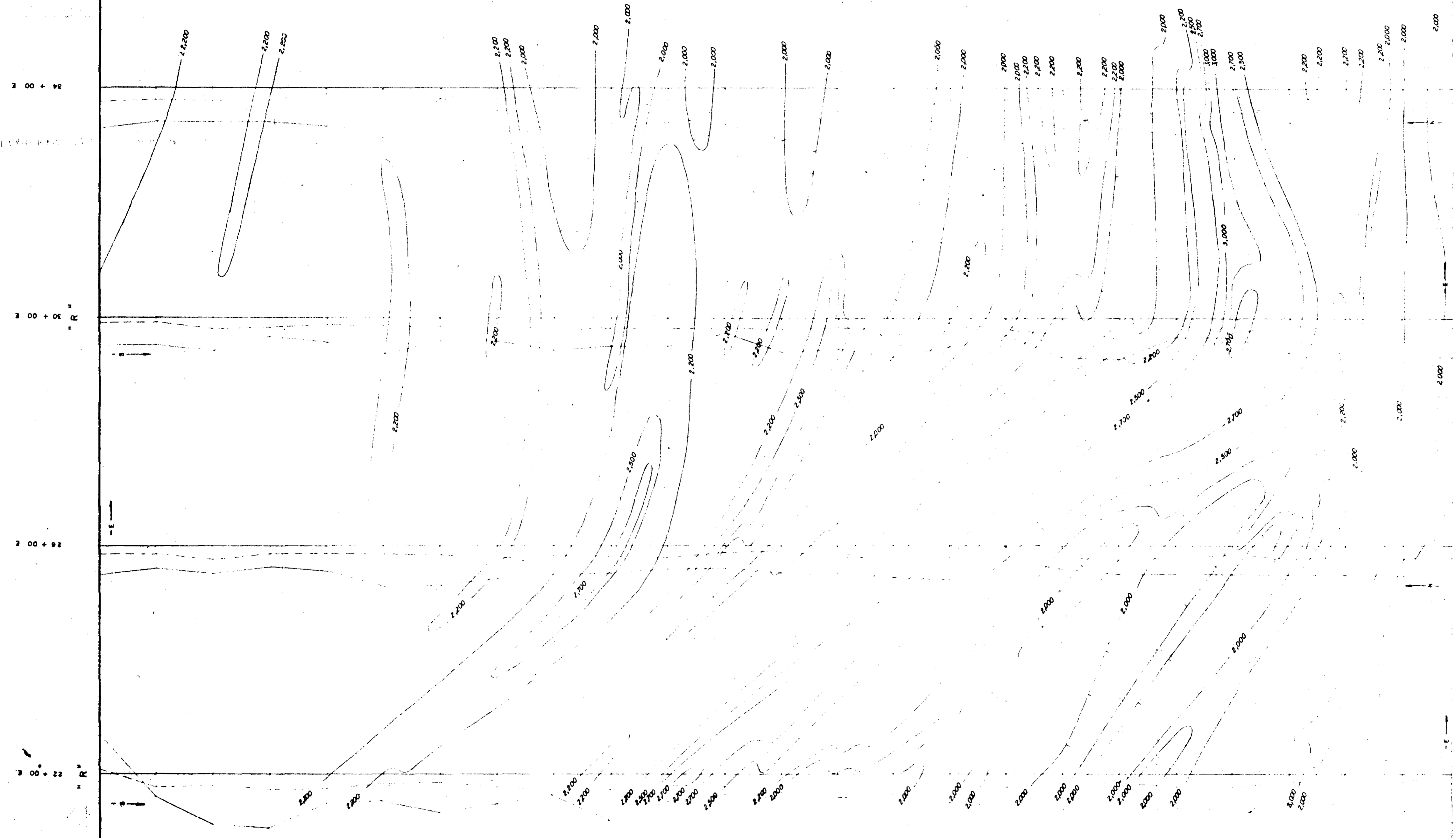
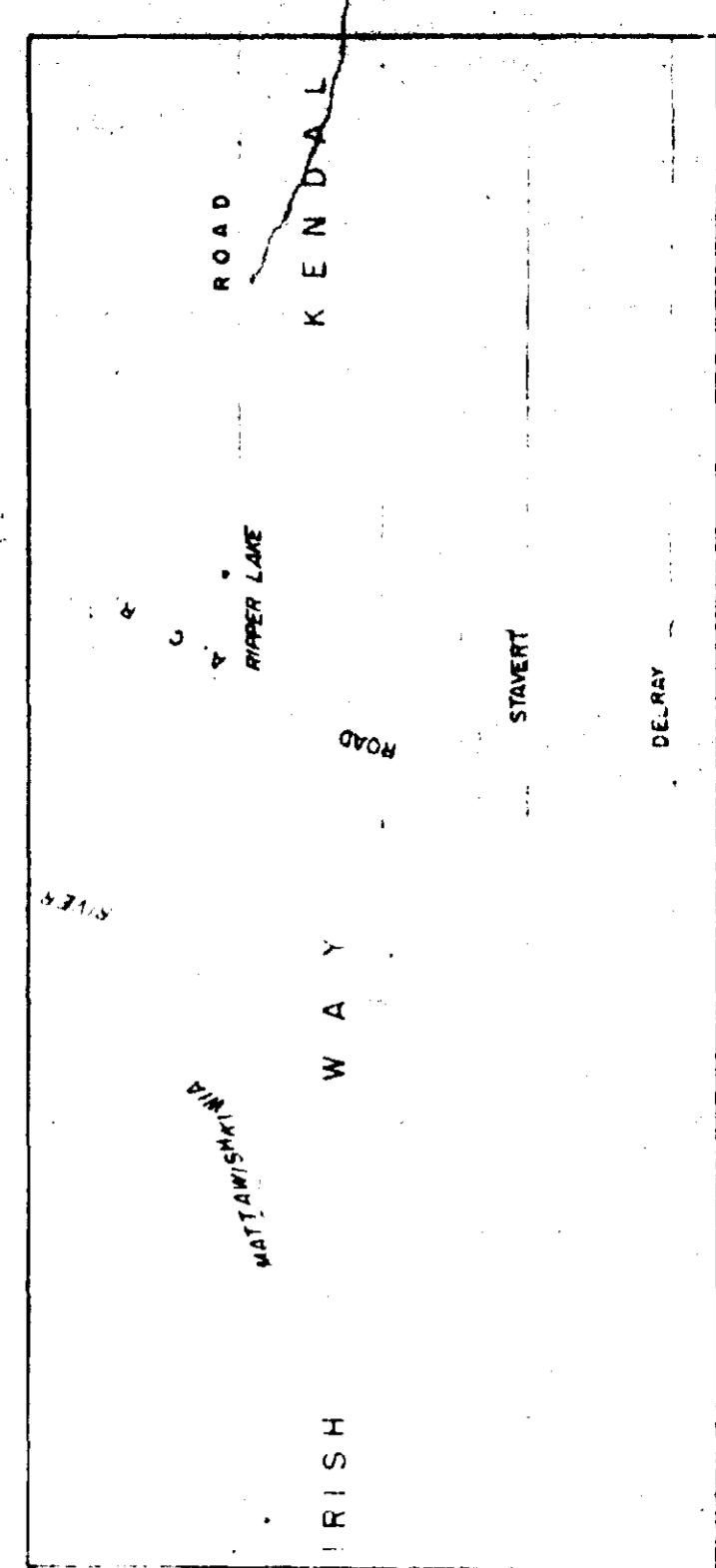
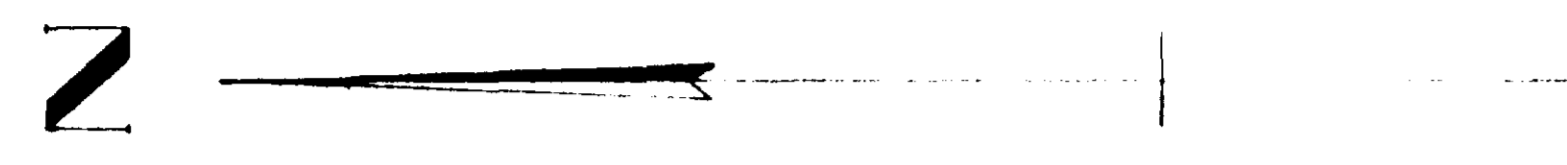
SCALE 1" = 100' NO. 20, 8861

Way TWP

REVISIONS: NONE  
DATE: 8-17-84  
BY: J. W. SMITH  
CHECKED: J. W. SMITH  
DATE: 8-17-84  
PROJECT: ALGOMA ORE PROPERTIES LTD.  
ANOMALY NO. 13 NORTH AREA  
SURVEY: HORIZONTAL LOOP ELECTROMAGNETIC SURVEY  
MAGNETOMETER 8



GLASGOW - 0013 60



ALGOMA ORE PROPERTIES LTD.

EXPLORATION DEPARTMENT

MAGNETOMETER &

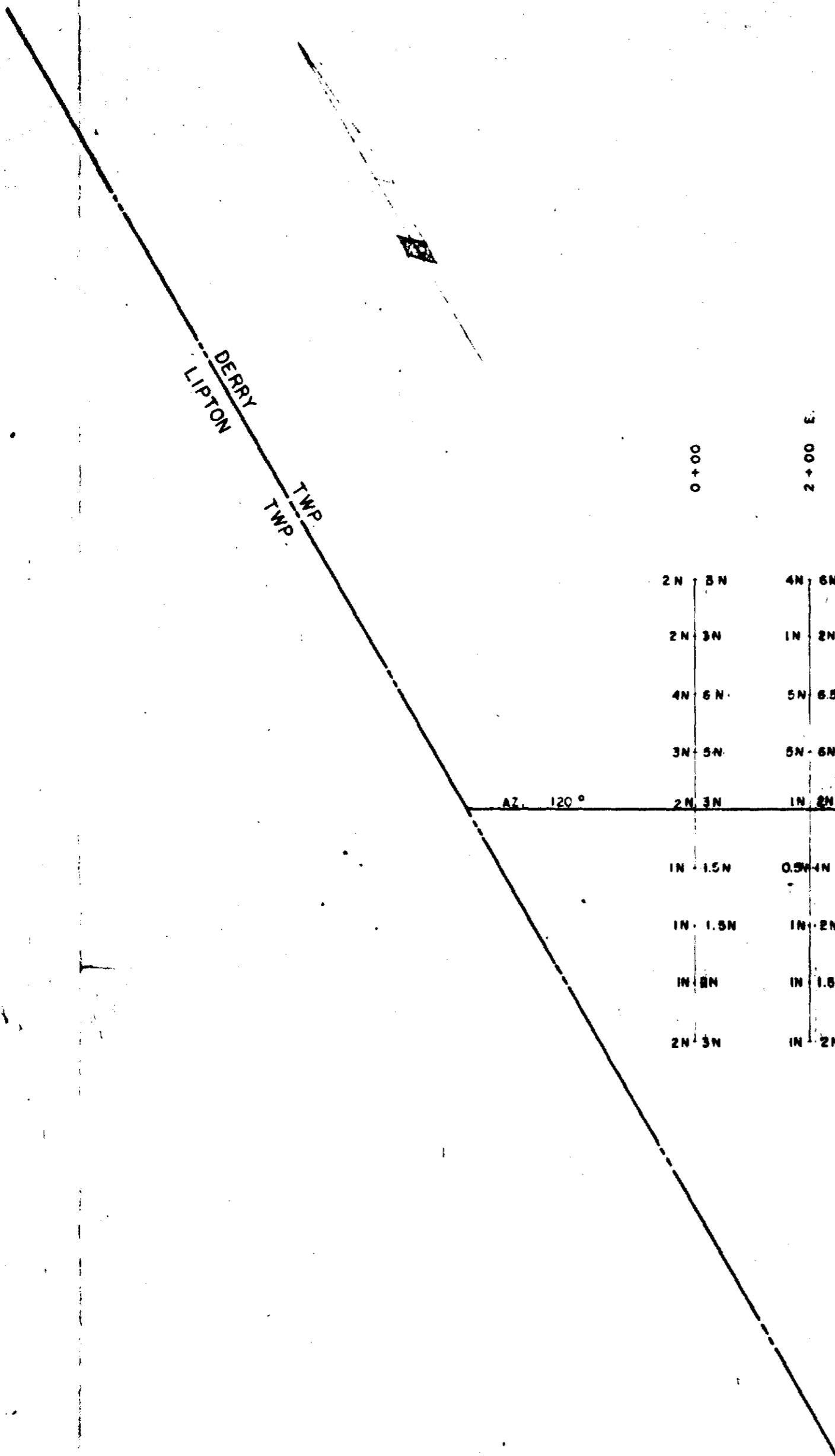
HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

ANOMALY NO. 5 NORTH AREA

Way Twp

INSTRUMENT: "SEAR" MODEL A-1 MAGNETOMETER  
SERIAL NO. 1000  
DATE OF SURVEY: 1960  
BY: J. H. BROWN  
CHECKED BY: J. H. BROWN  
SCALE: 1" = 100' (HORIZONTAL)  
1" = 100' (VERTICAL)  
MAGNETIC DECLINATION: 11° 15' W. (1960)  
MAGNETIC ANOMALY: 0.00 (1960)  
MAGNETIC INTENSITY: 48.00 (1960)  
MAGNETIC ANOMALY: 0.00 (1960)  
MAGNETIC INTENSITY: 48.00 (1960)





	0+00	2+00 E.	4+00 E.	6+00 E.	8+00 E.	10+00 E.	12+00 E.
	2N 3N	4N 6N	8N 10N	3N 4N	3N 5N	15N 4N	25 4 S
	2N 3N	1N 2N	5N 6N	5N 7N	4N 6.5N	15N 3.5N	15S 2S
	4N 6N	5N 6.5N	3N 4N	6N 7.5N	5N 7N	3N 6N	25 4S
	3N 5N	5N 6N	5N 7N	5N 6N	2N 4N	15N 4N	35 5S
AZ. 120°	2N 3N	1N 2N	4N 6.5N	4N 5N	5N 7N	2N 3N	15 1.5 S
	1N 1.5N	0.5N 1N	4N 6.5N	3N 4N	4N 6.5N	2N 5N	25 4S
	1N 1.5N	1N 2N	4N 6.5N	5N 7N	4N 6.5N	2N 3N	15 3S
	1N 2N	1N 1.5N	3N 6N	15N 2N	5N 6.5N	2N 3N	45 6S
	2N 3N	1N 2N	5N 7N	2N 3N	3N 4N	1N 2N	35 6S

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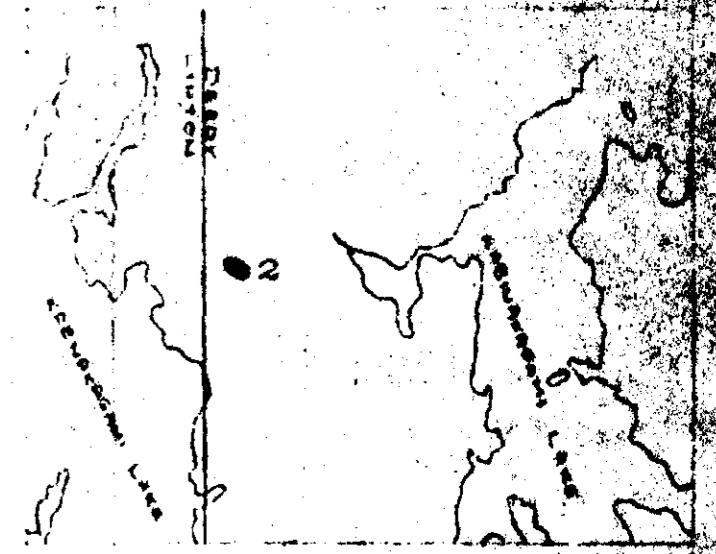
260

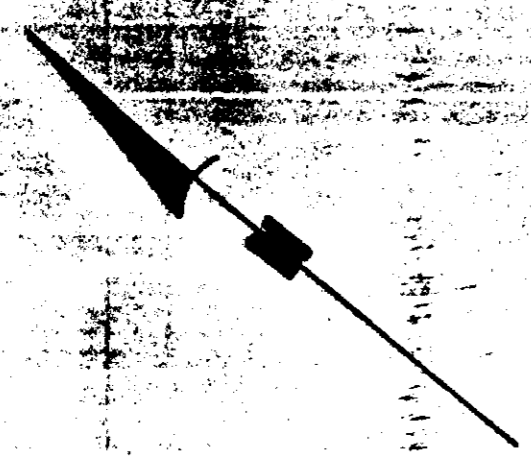
**LEGEND**  
M<sup>c</sup> PHAR R. E. M.

- 1000 C.P.S.
- 8000 C.P.S.
- 1000 C.P.S.
- 8000 C.P.S.
- CONDUCTOR

SURVEYED BY BROADSIDE METHOD  
TRANSMITTER 400' EAST OF RECEIVER  
TRANSMITTER 400' WEST ON LINE 12+00

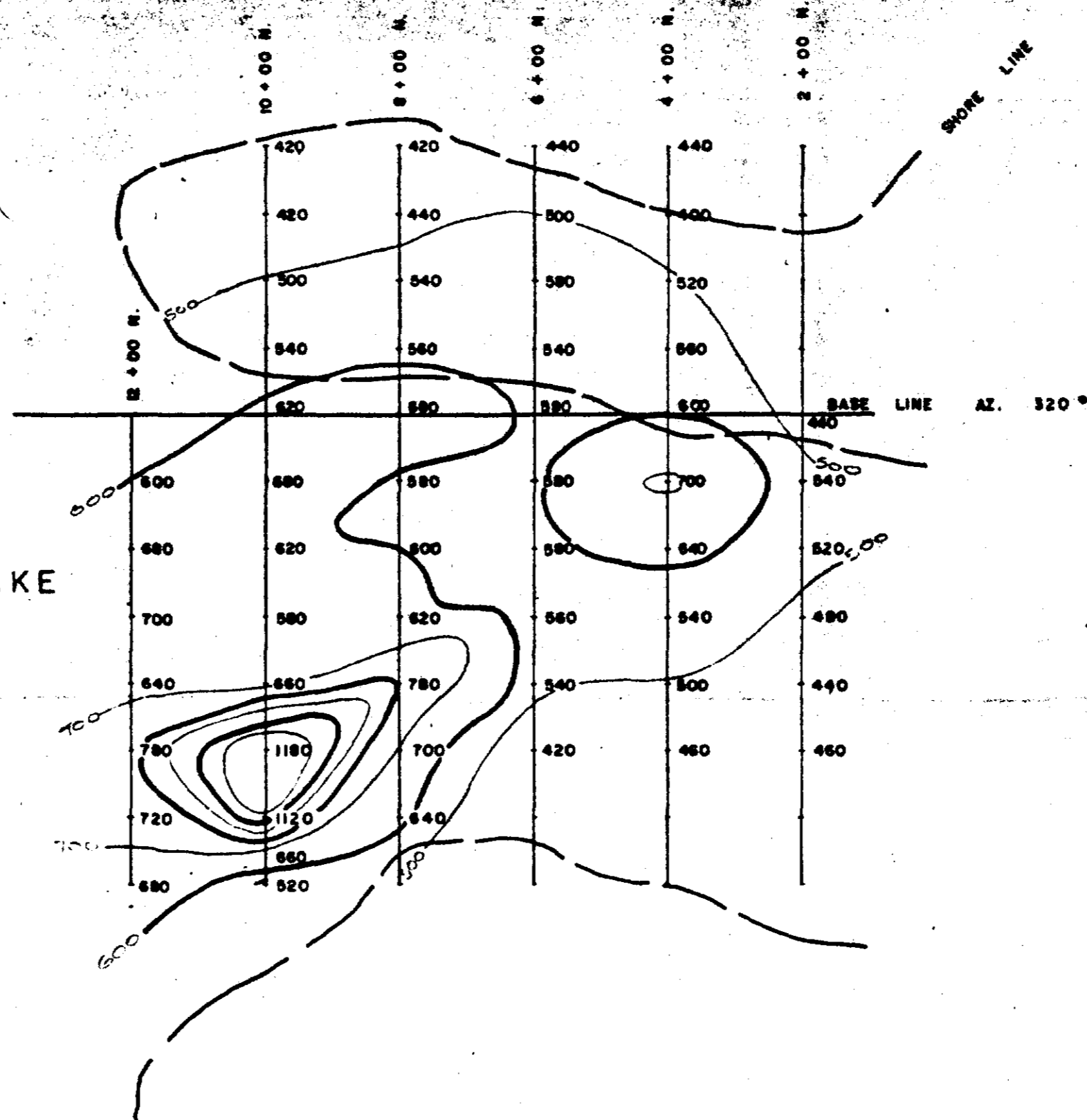
ALGOMA ORE PROPERTIES LIMITED  
EXPLORATION DEPARTMENT  
**BLOCK "C"**  
ANOMALY - 2  
DERRY TWP  
ELECTROMAGNETIC SURVEY  
SCALE 1" = 200' JUNE 1968.





KABINAKAGAMI

LAKE



GLASGOW - 0013 62

ALGOMA ORE PROPERTIES LIMITED  
EXPLORATION DEPARTMENT

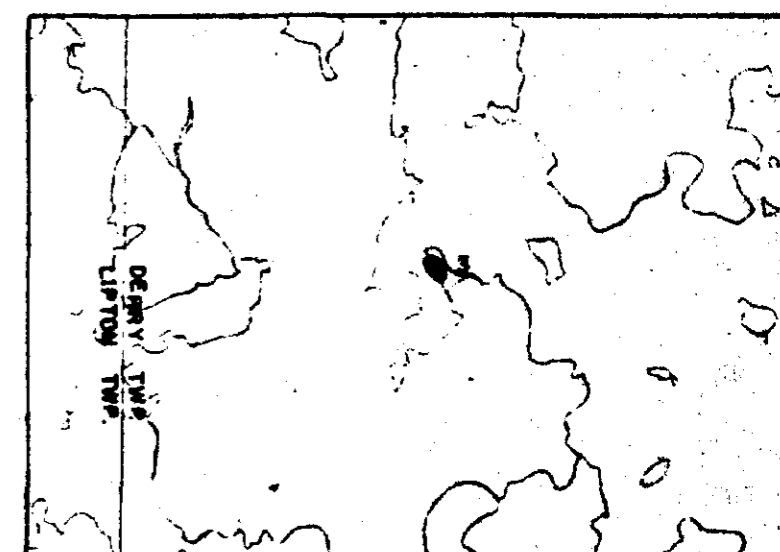
BLOCK "C"

ANOMALY 3

DERRY TWP

MAGNETOMETER SURVEY

SCALE 1" = 200' JUNE 1958



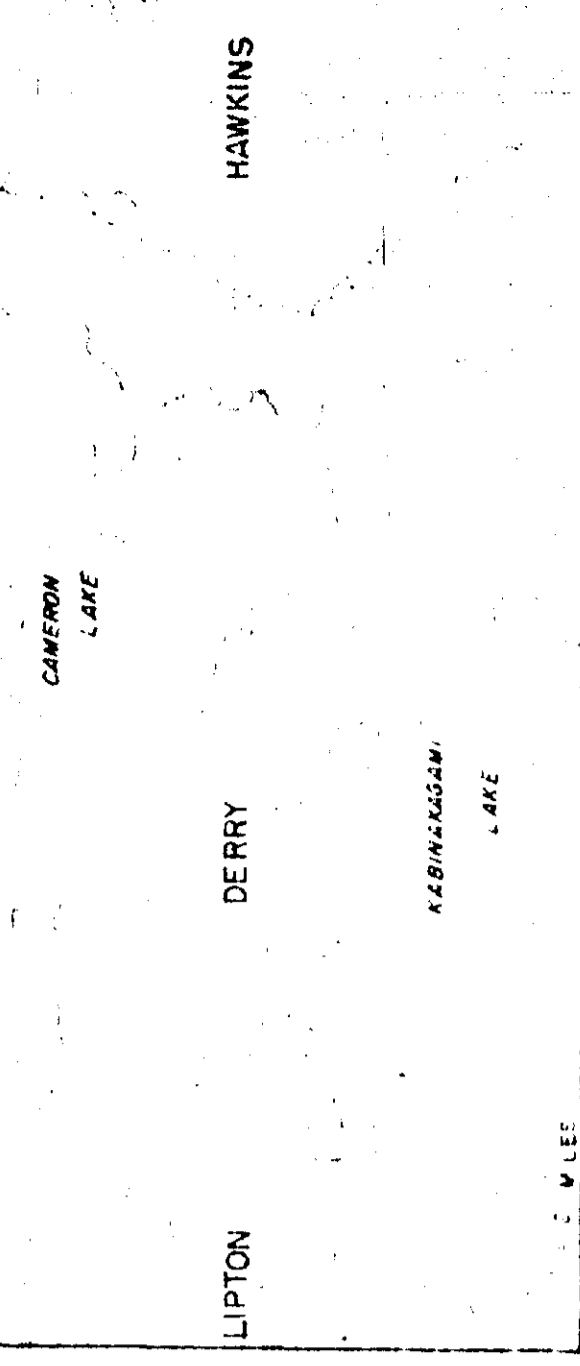
42612NE0002 0013 GLASGOW



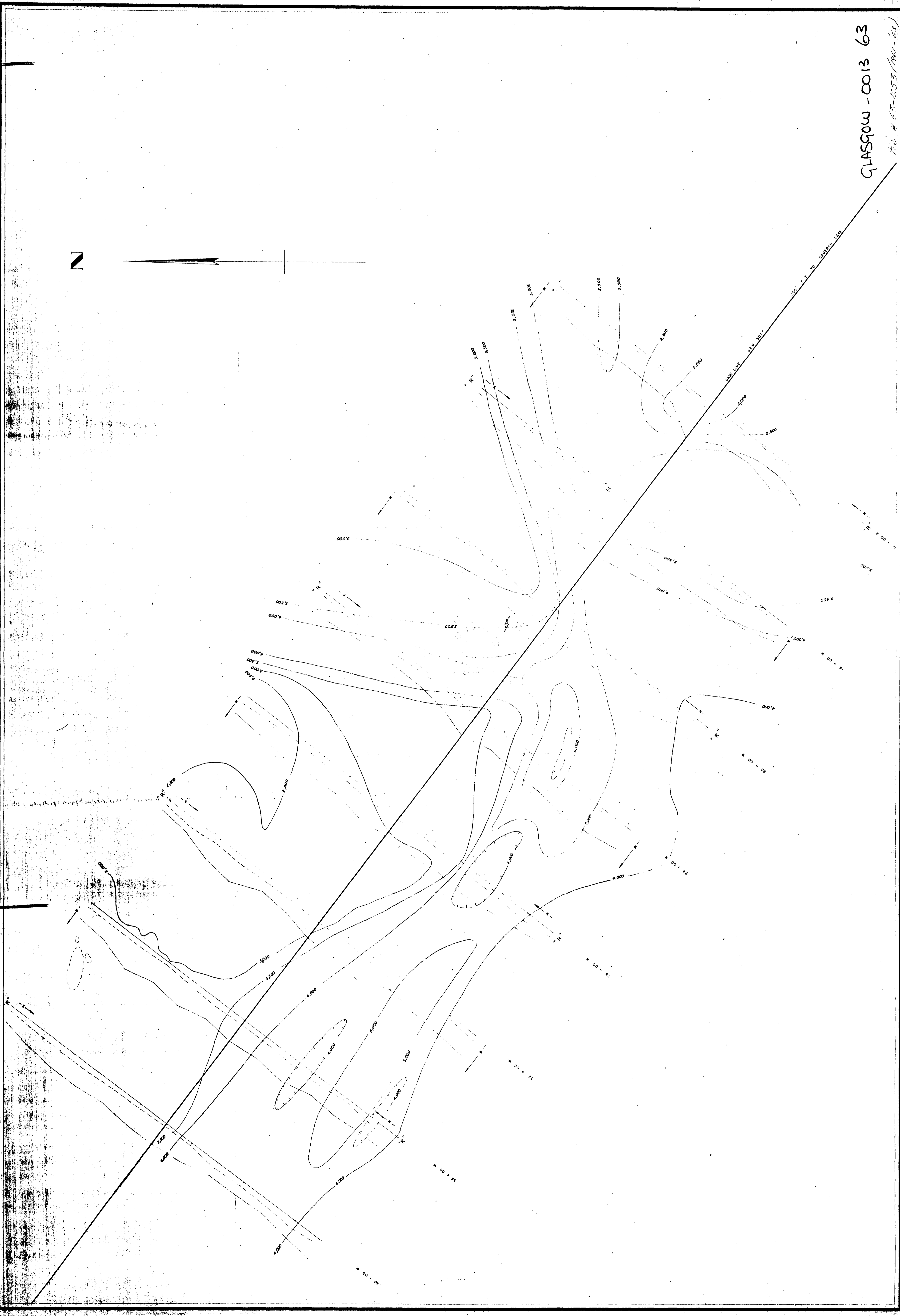
GLASGOW - 0013 63

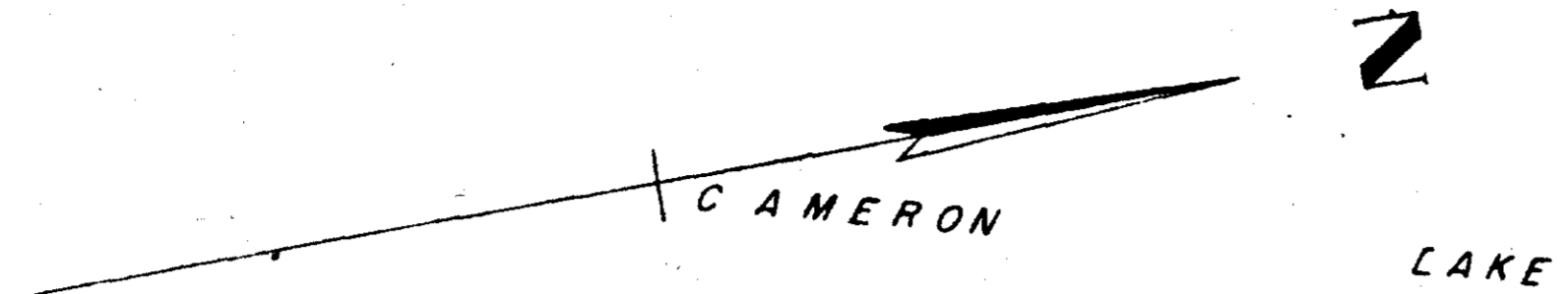
FILE # 63-253 (M-13)

ALGOMA ORE PROPERTIES LTD.  
 EXPLORATION DEPARTMENT  
 MAGNETOMETER 8  
 HORIZONTAL LOOP ELECTROMAGNETIC SURVEY  
 ANOMALY NO. 52 C CENTRAL AREA



INSTRUMENT "Sears" MODEL 4-1 MAGNETOMETER  
 SERIAL NO. 111  
 METHOD OF SURVEY "Horizontal Loop"  
 DATE OF SURVEY "1963"  
 NAME OF SURVEYOR "J. G. ..."  
 NAME OF COMPANY "ALGOMA ORE PROPERTIES LTD."  
 NAME OF PROJECT "ANOMALY NO. 52 C CENTRAL AREA"  
 NAME OF SHEET "262"  
 NAME OF DRAWING "HORIZONTAL LOOP ELECTROMAGNETIC SURVEY"  
 NAME OF SCALE "1:1000"  
 NAME OF SHEET "262"  
 NAME OF DRAWING "HORIZONTAL LOOP ELECTROMAGNETIC SURVEY"





00 + 0	4 + 00 N	8 + 00 N	12 + 00 N	16 + 00 N	20 + 00 N	24 + 00 N	28 + 00 N	32 + 00 N
	3440	2100	1920	1760	3150	3270	2710	
	3020	2100	1820	1880	3070	3050	2570	
	2820	2060	1700	1940	2990	3130	2430	1370
	2700	2100	1600	2020	3090	3070	2410	1510
	2660	2100	1560	2020	3010	2970	2390	1670
	2640	2040	1660	2060	2930	2910	2390	1670
	2980	1920	1760	2220	2970	2670	2230	2670
	3180	1980	1880	2280	3090	2490	2150	3150
1500	3220	1980	2080	2380	3190	2490	2310	2980
								BASE LINE AZ. 00°
1500	3360	2000	2200	2320	3150	2310	2430	290
1440	3440	2120	2280	2480	2970	2490	2330	2610
1420	3340	2240	2260	2360	2870	2750	2210	2670
1440	2940	2340	2200	2460	2390	2910	2190	2610
1440	2640	2380	2120	2400	2510	3010	2010	2310
1420	2400	2400	2120	2820	2930	3010	2150	2070
1520	2320	2440	2220	2880	2970	3170	2410	1930
1420	2240	2300	2320	2700	3210	2650	2070	1980
					3270	2330	2070	

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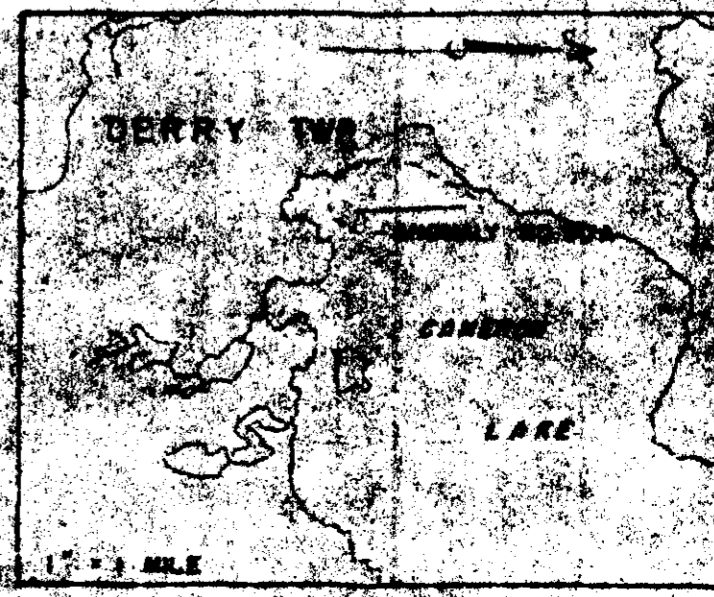
**LEGEND**

INSTRUMENT "SHARPE" MODEL # - 2 MAGNETOMETER  
 READINGS IN GAUSS

**ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT**

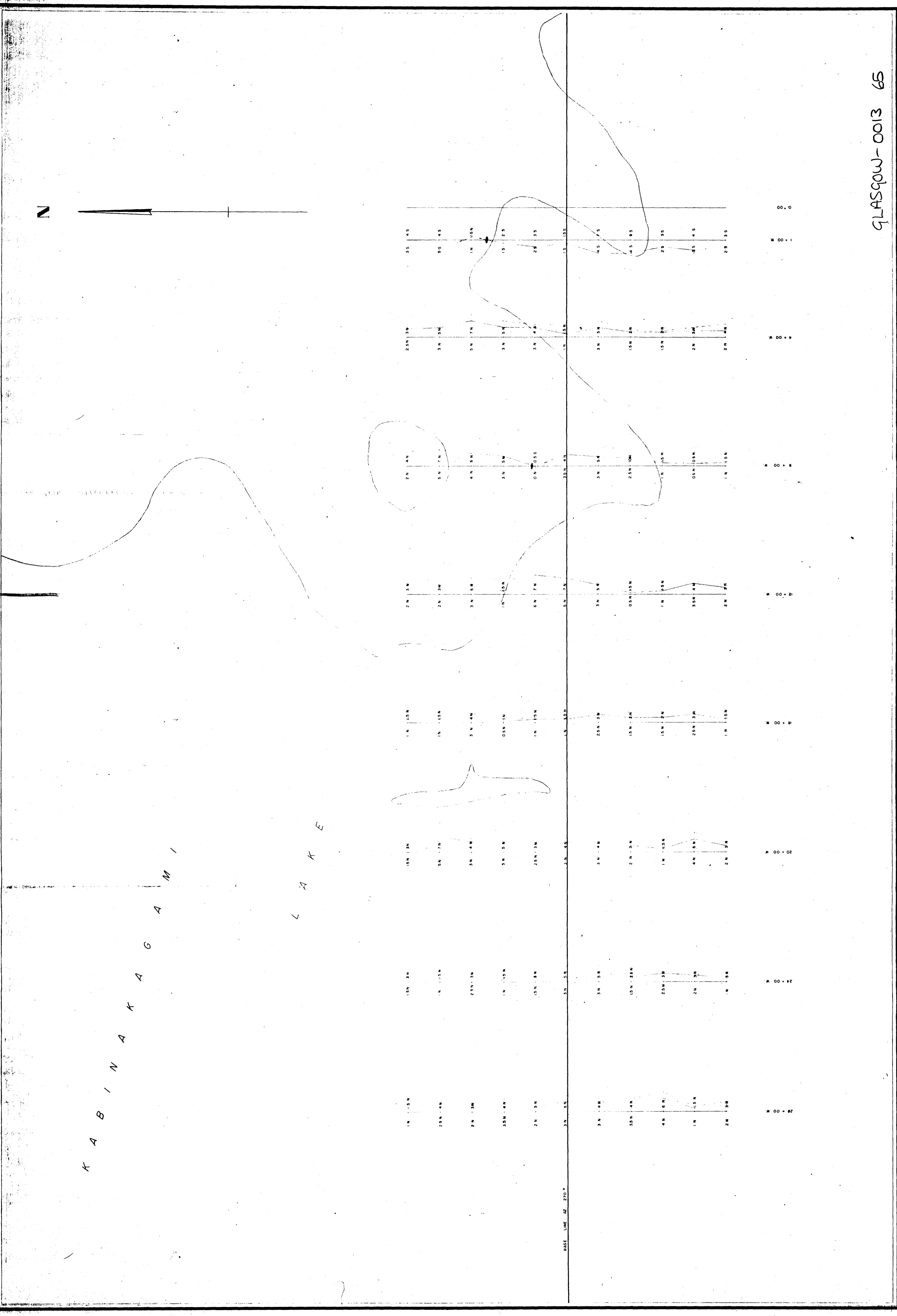
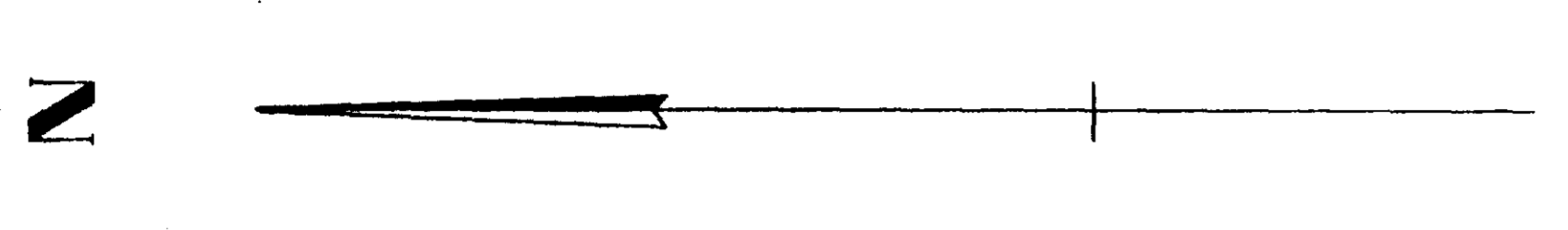
**ANOMALY NO. 50 A CENTRAL AREA  
 MAGNETOMETER SURVEY**

SCALE 1" = 200' APRIL 27, 1960

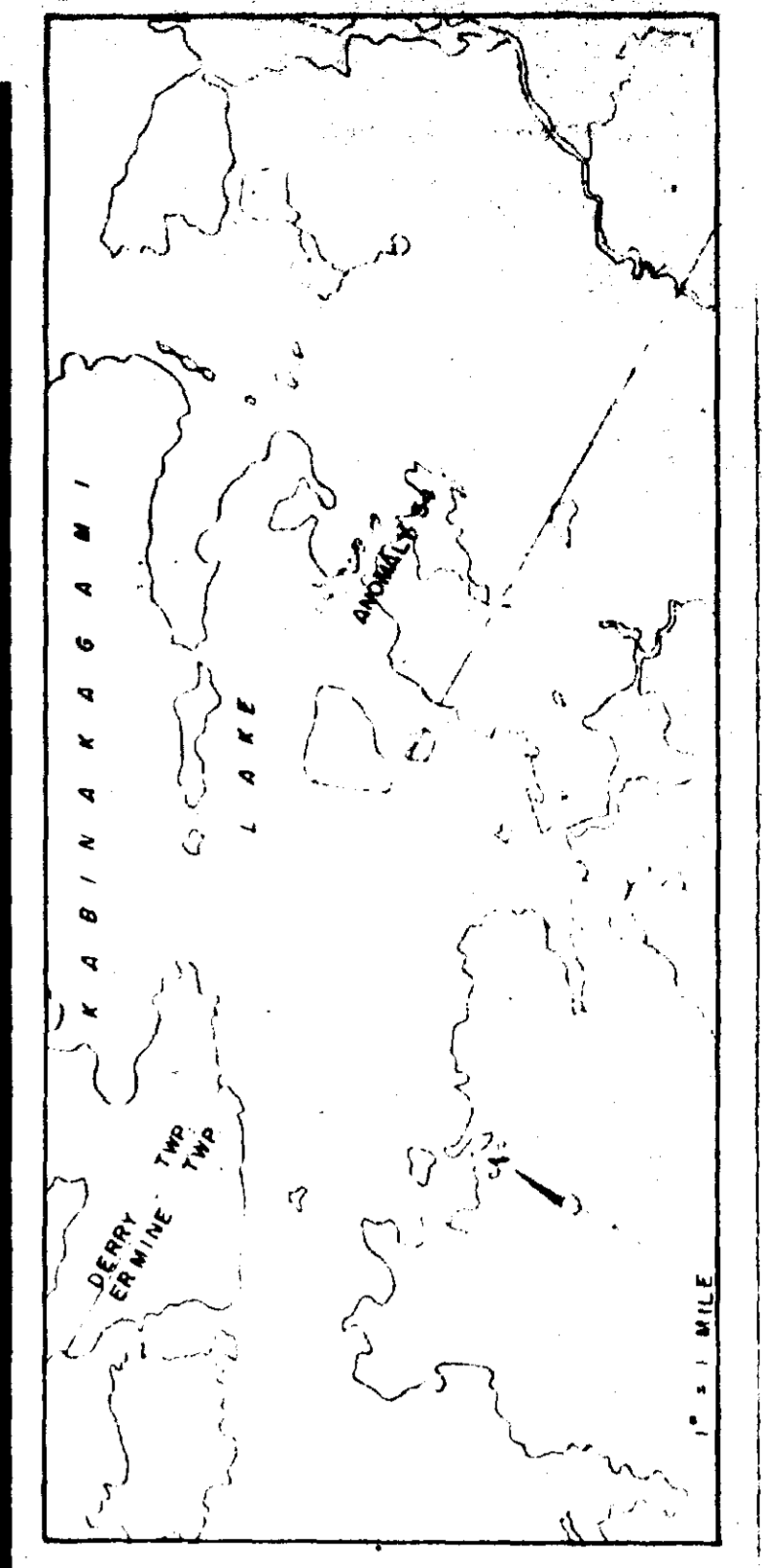


K A B I N A K A G A M I

L A K E



GLASGOW-0013 65



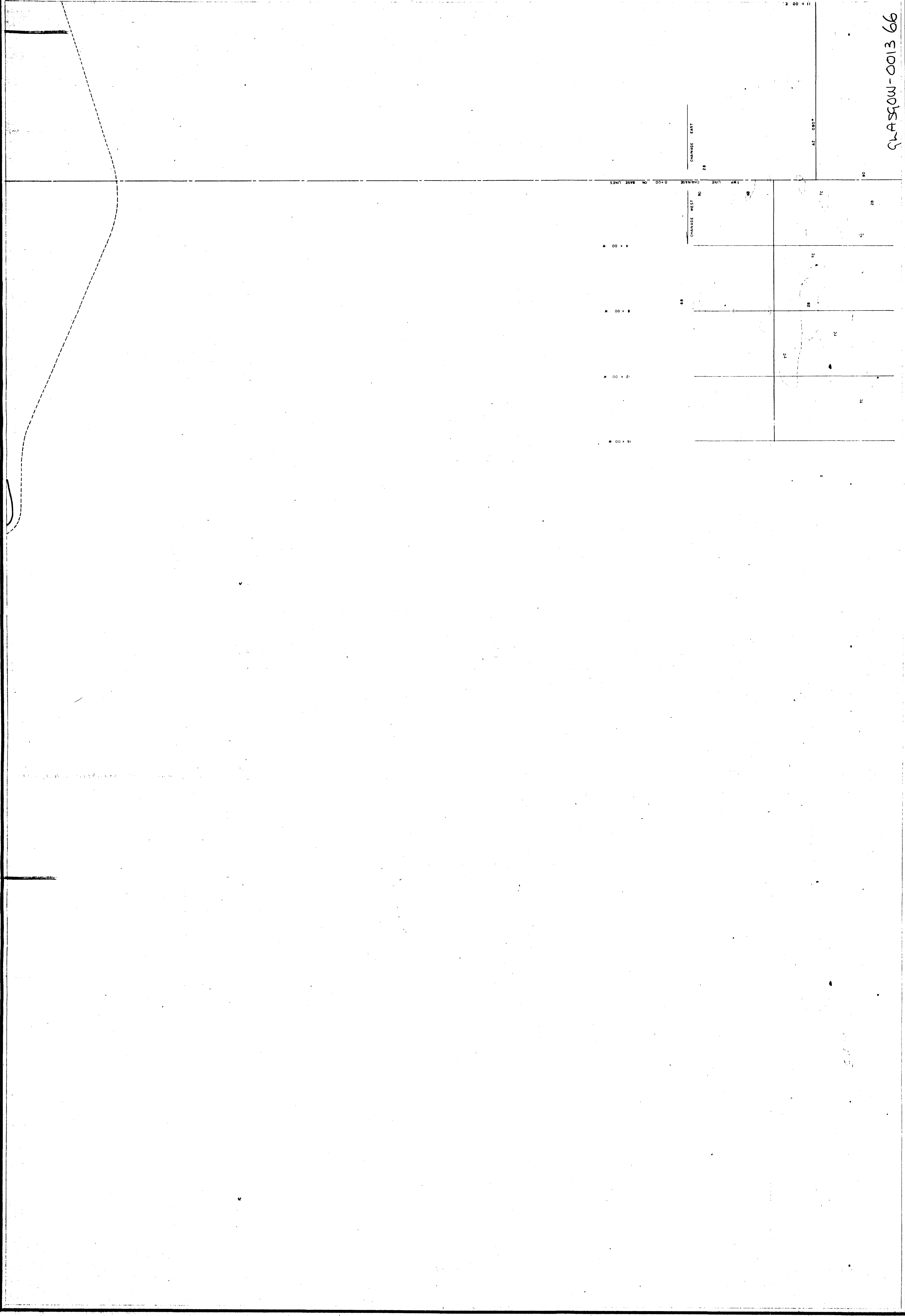
ALGOMA ORE PROPERTIES LTD.  
 EXPLORATION DEPARTMENT  
 ELECTROMAGNETIC SURVEY  
 ANOMALY NO. 54 BLOCK "C"

LEGEND  
 1000 C.P.S. ———  
 500 C.P.S. ———  
 100 C.P.S. ———  
 50 C.P.S. ———  
 CONDUCTOR ———  
 SCALE 1" = 10'  
 INSTRUMENT : W.P.M.A. VERTICAL LOOP A.Z.M.  
 METHOD : BROADSIDE - 400' SPREAD

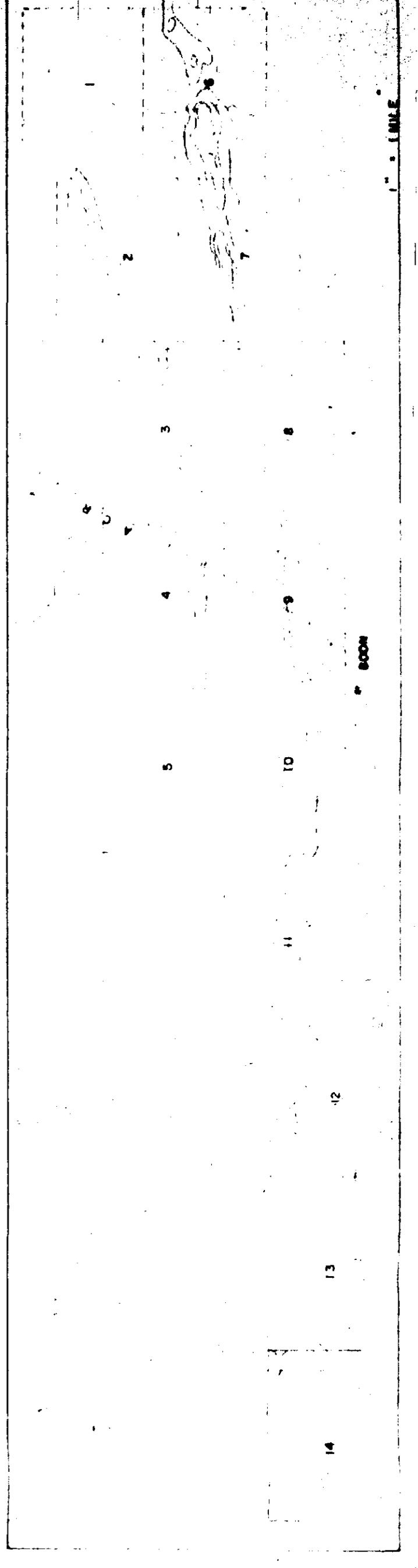
TRACED BY D. J. TOLMANCEZ





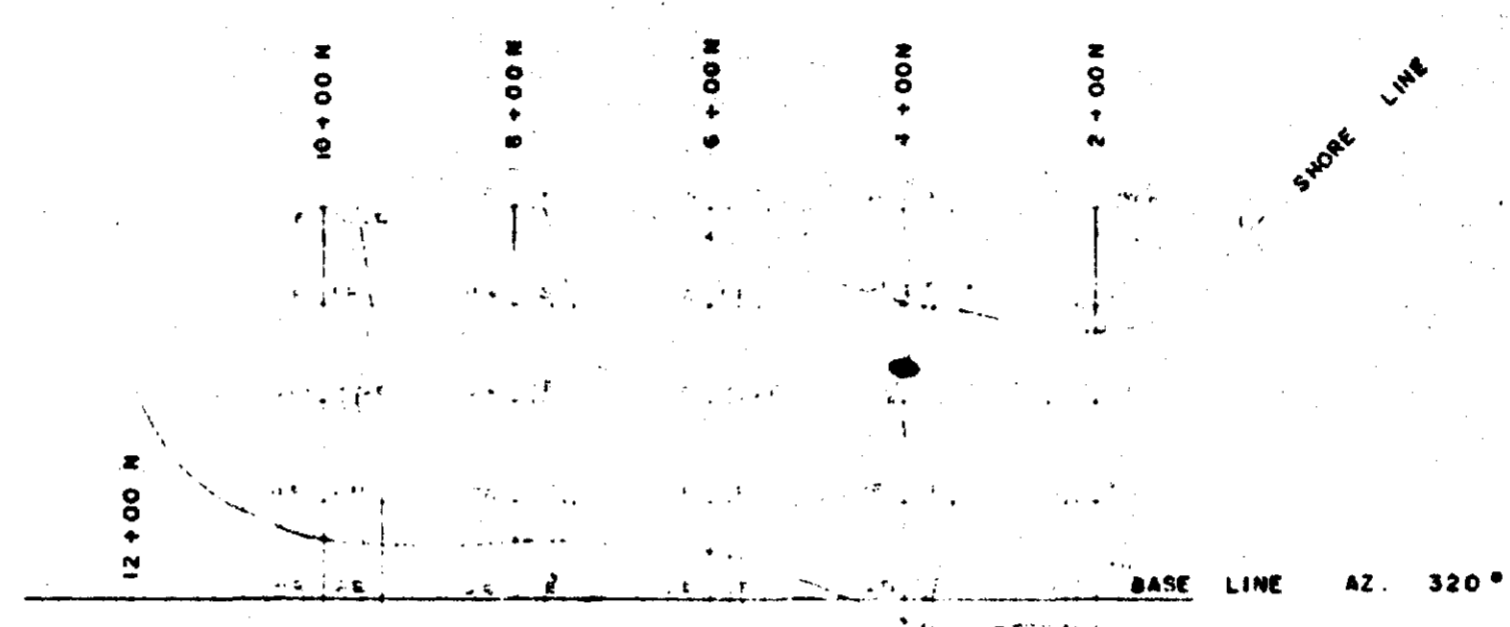
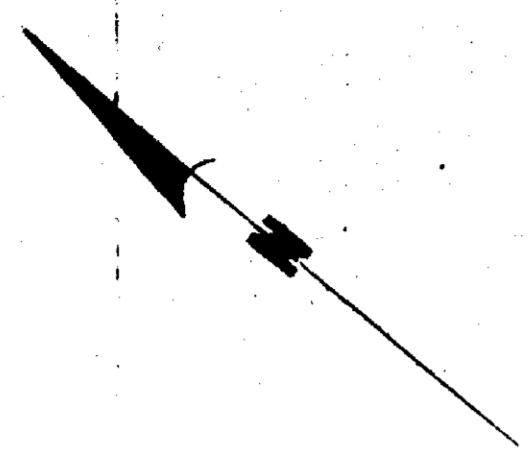


QWASLOW-0013 66



ALGOMA ORE PROPERTIES LTD.  
 EXPLORATION DEPARTMENT  
 GEOLOGY  
 ANOMALIES 1 8 2  
 SCALE 1" = 200'  
 JUNE 1958

- LEGEND**
- METASANDSTONES - QUARTZ SCHIST 2A, QUARTZ-BOTTITE SCHIST 2B, BOTITE - QUARTZ SCHIST 2C, HORNBLEND - BOTITE-QUARTZ SCHIST 2D, HORNBLEND SCHIST 2E, GARNET-HORNBLEND SCHIST 2F, GARNET - BOTITE SCHIST 2G, GREISSE 2H
  - BASIC VOLCANIC - PILLOW LAVA 4A, SCHISTOSE GREENSTONE 4E
  - ACID VOLCANICS - MASSIVE 1A, PYROCLASTIC 1B, TUFF/FINE GRAINED, BANDED 1C
  - DIORITE - MASSIVE 6A, SCHISTOSE 6B, MAGNETIC 6C
  - LAMPROPHYRE - 9
  - GRANITE - MASSIVE 7A, GNEISS 7B, PERALITE 7C, APLITE 7D
  - DIBASE - MASSIVE 8A, PORPHYRITIC 8B
- SYMBOLS**
- REGIONAL STRIKE AND DIP
  - ONESIDEDITY
  - SCHISTOSITY STRIKE AND DIP
  - SHEAR ZONE OR FAULT



KABINAKAGAMI LAKE

GLASGOW-0013 67



266

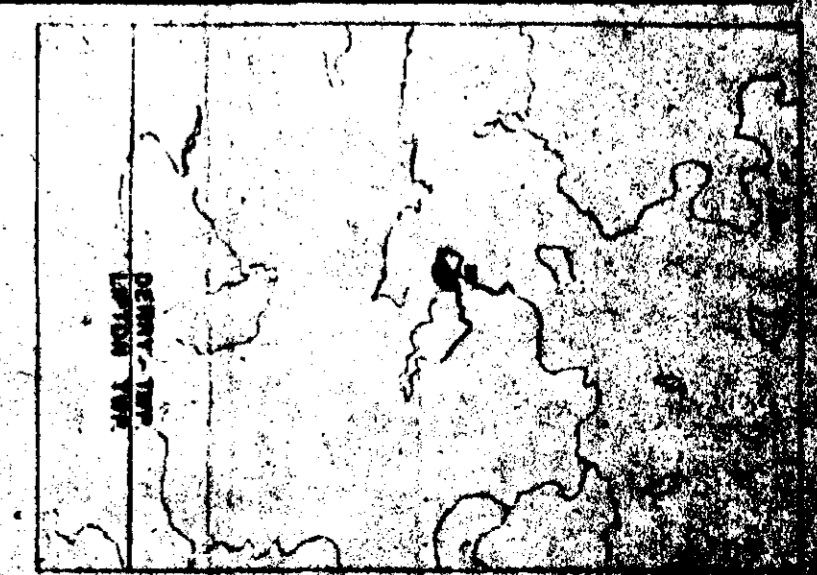
**LEGEND**  
**M<sup>c</sup> PHAR R. E. M.**

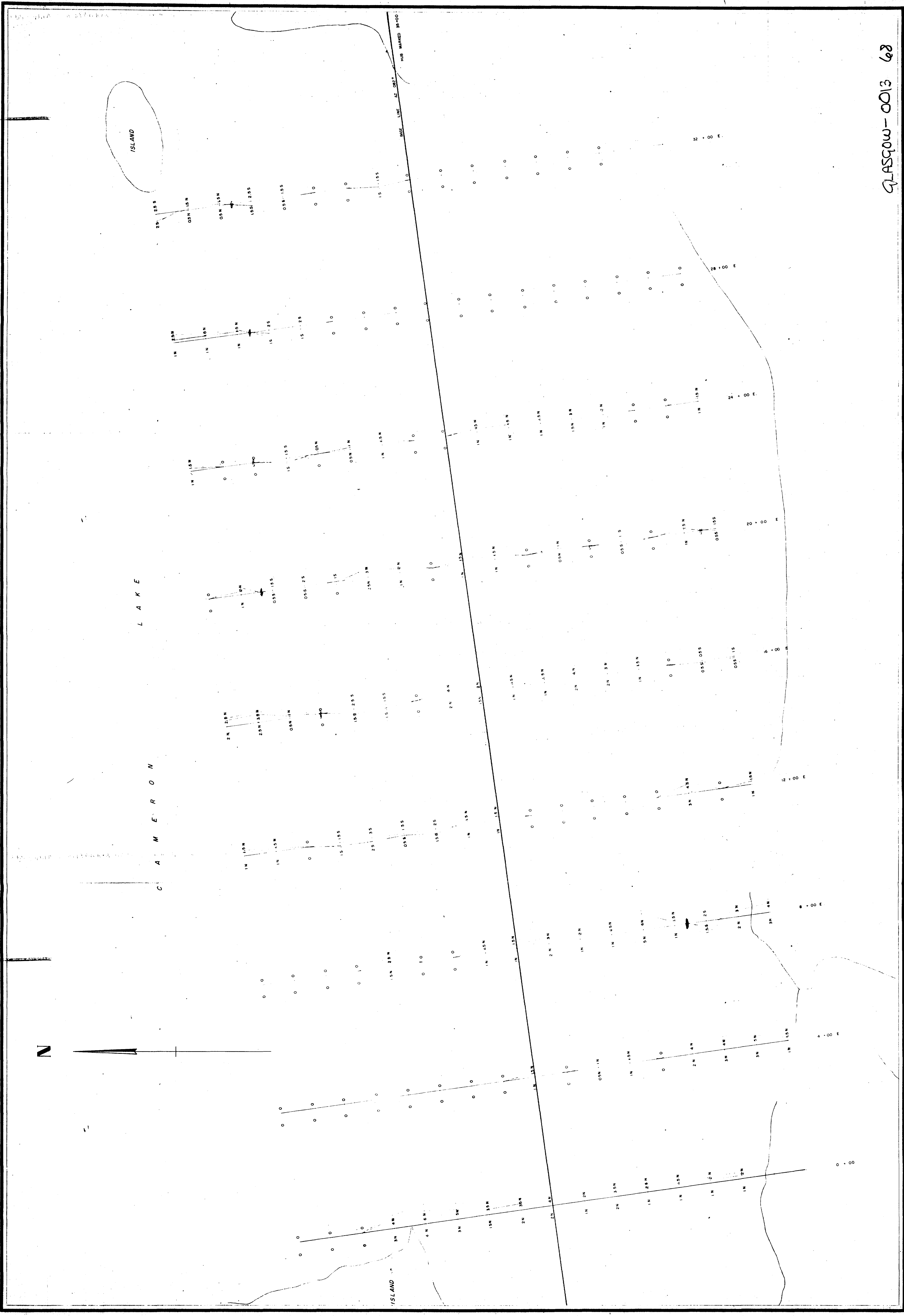
1000 C.P.S.	8000 C.P.S.
1000 C.P.S.	8000 C.P.S.
1000 C.P.S.	8000 C.P.S.
1000 C.P.S.	8000 C.P.S.

● CONDUCTOR

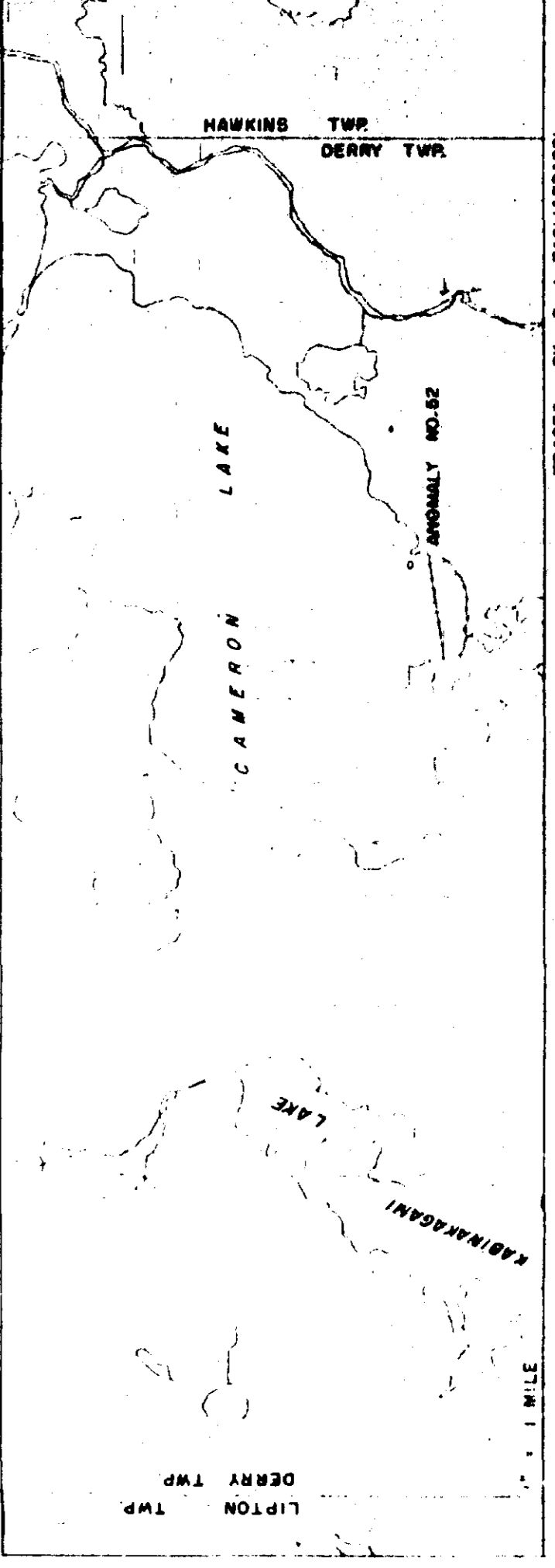
SURVEYED BY BROADSIDE METHOD  
 TRANSMITTER 400' SOUTH OF RECEIVER

ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT  
**BLOCK "C"**  
 ANOMALY 3  
 DERRY TWP.  
 ELECTROMAGNETIC SURVEY  
 SCALE 1" = 200' MAY 1958





GLASGOW-0013 628



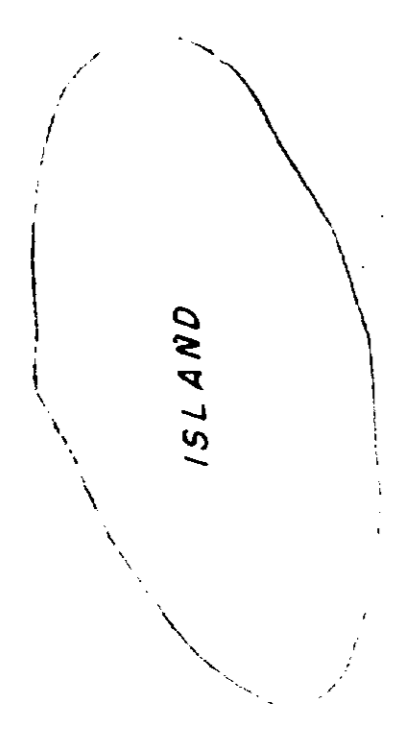
ALGOMA ORE PROPERTIES LTD.  
 EXPLORATION DEPARTMENT  
 ELECTROMAGNETIC SURVEY  
 ANOMALY NO. 52 BLOCK "B"

LEGEND  
 1000 CPS ——— 5000 CPS  
 1000 CPS ——— 5000 CPS  
 CONDUCTOR  
 SCALE 1" = 10'  
 INSTRUMENT: 45° PAKE VERTICAL LOOP RE-M  
 METHOD: BRIDGE — 450 SPEED

N

C A M E R O N

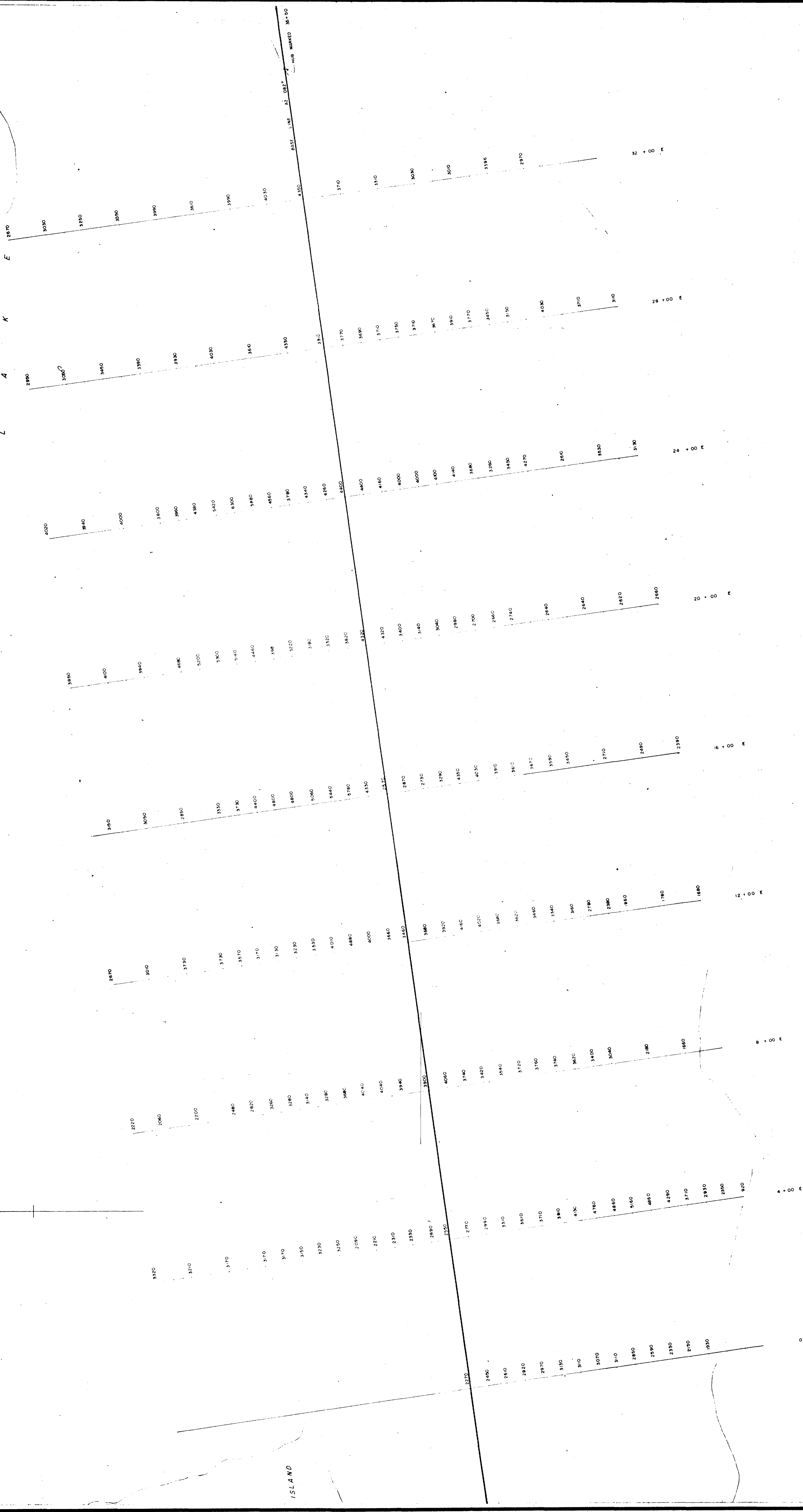
L A K E



ISLAND

ISLAND

BASE LINE S. 087° W. MARKED 30+00



GLASGOW - 0013 69

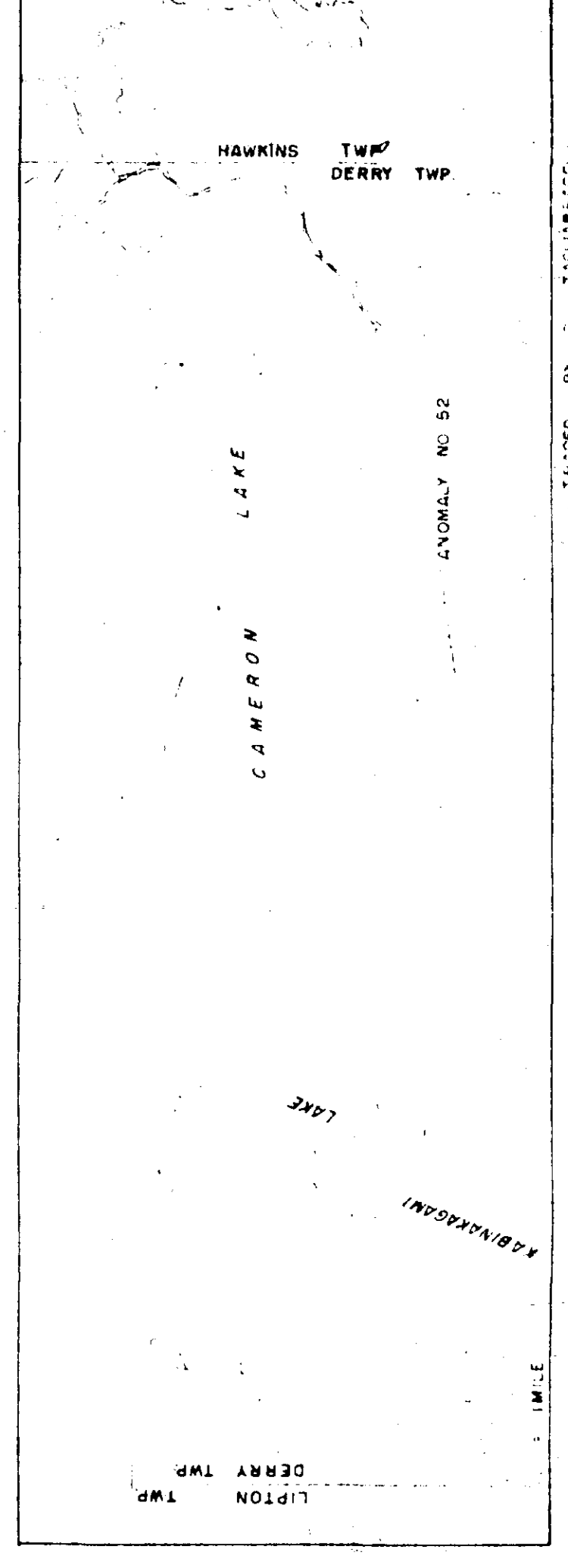
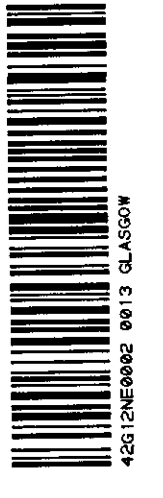
LEGEND

INSTRUMENT - "SHARPE" MODEL A-2 - MAGNETOMETER  
READINGS IN GAUSS

ALGOMA ORE PROPERTIES LTD.  
EXPLORATION DEPARTMENT  
MAGNETOMETER SURVEY  
ANOMALY NO. 52 BLOCK "B"

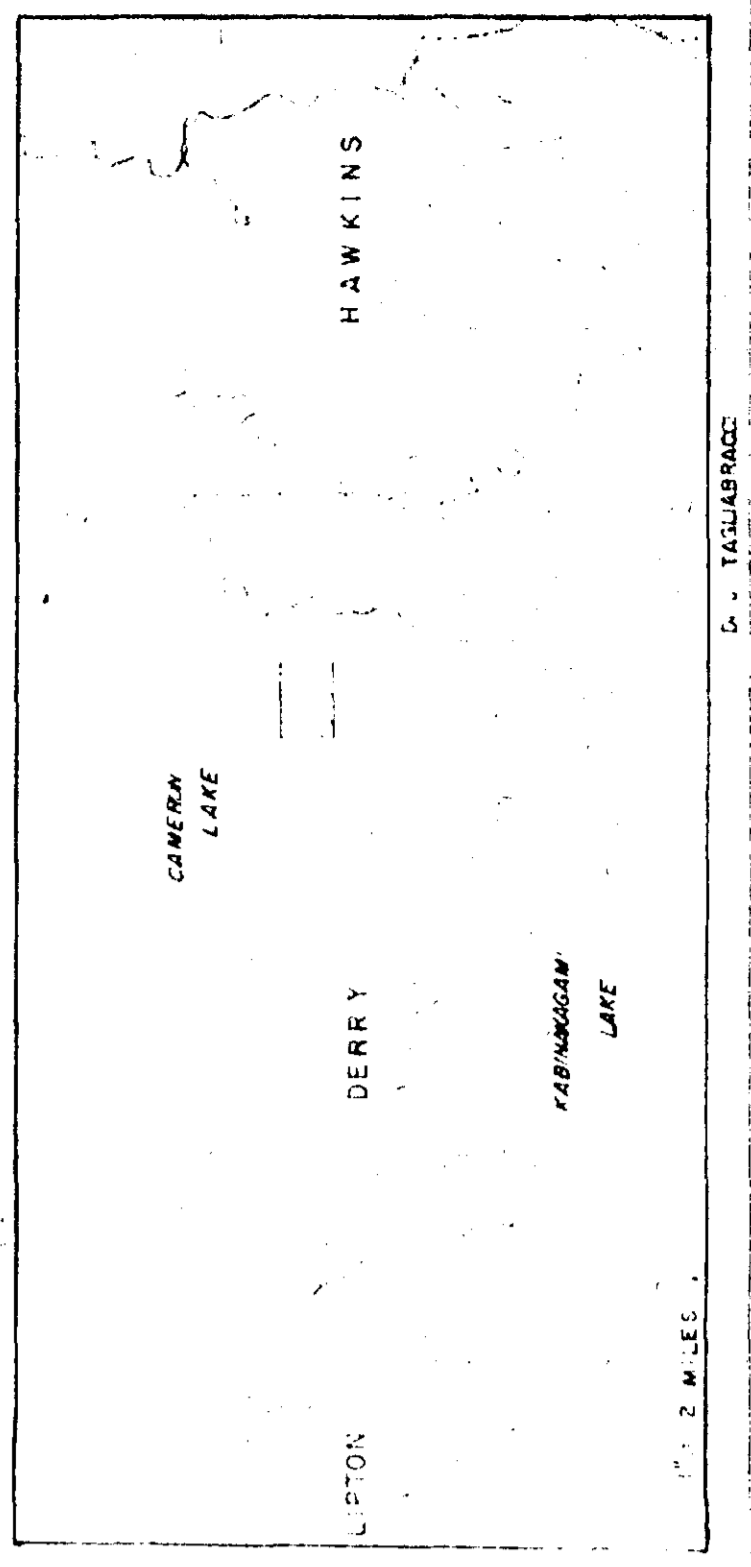
SCALE 1" = 100' SUPPLY 1960

868 FEB 7, 1960





GLASGOW-0013 70  
 File # 65-125 (102-63)



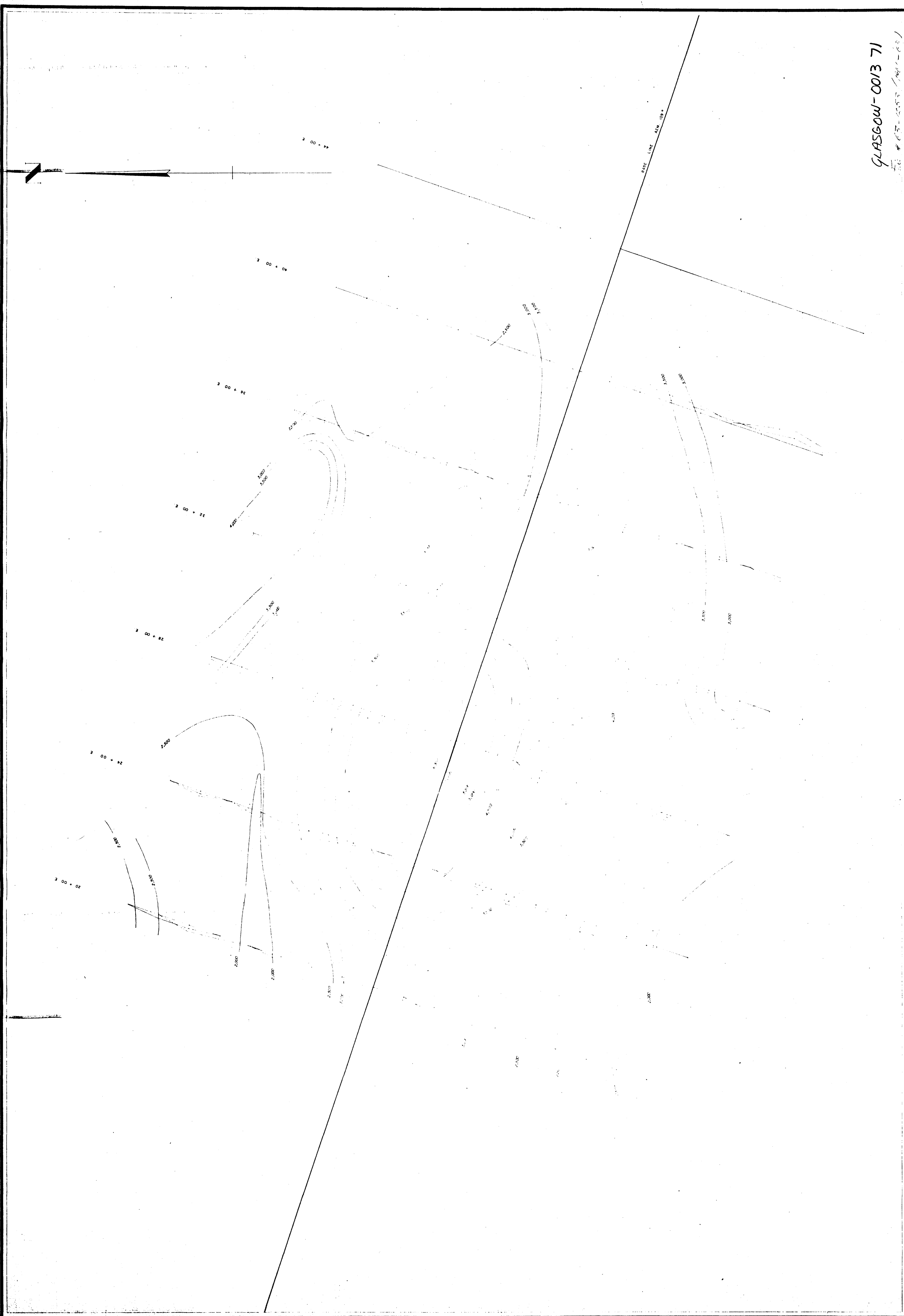
ALGOMA ORE PROPERTIES LTD.  
 EXPLORATION DEPARTMENT  
 MAGNETOMETER &  
 HORIZONTAL LOOP ELECTROMAGNETIC SURVEY  
 ANOMALY NO. 52 B CENTRAL AREA

SCALE 1" = 100' DEC 5, 56

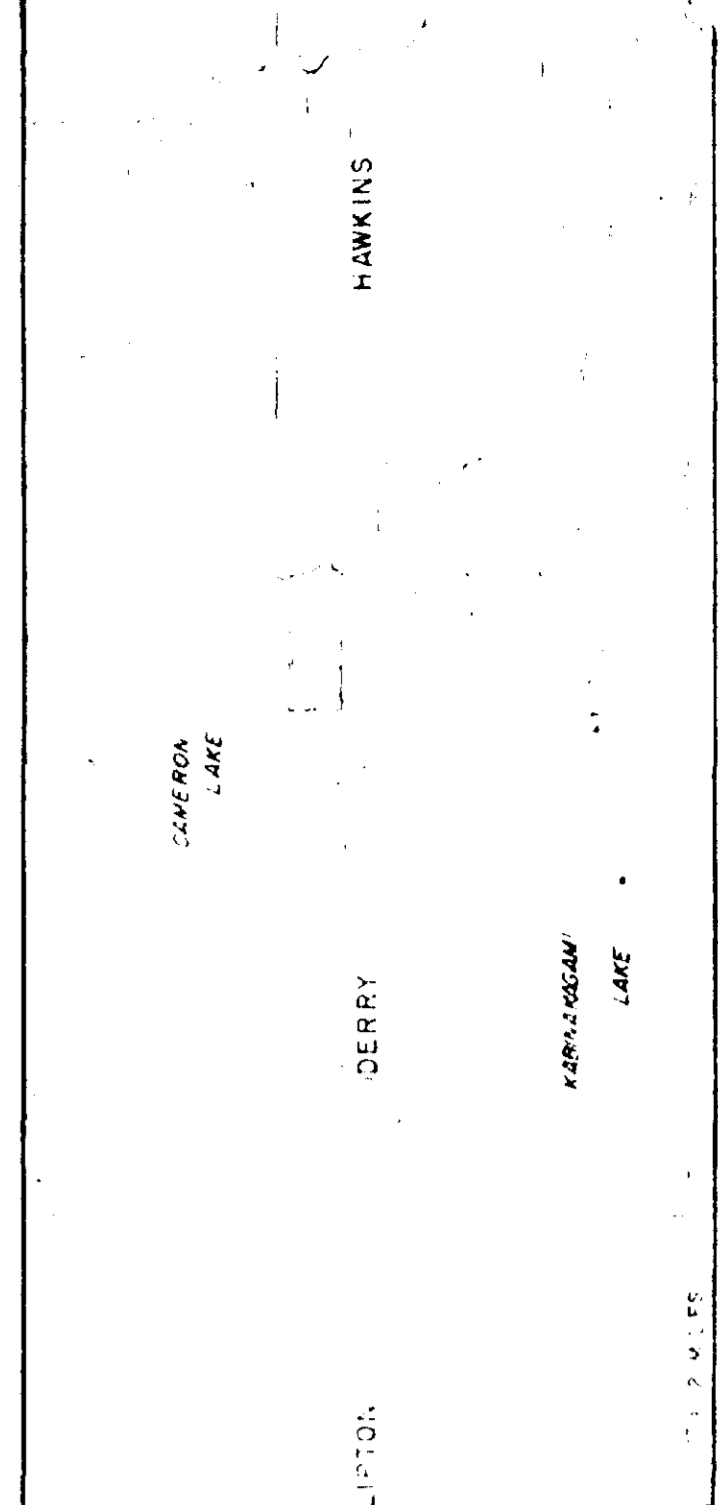
INSTRUMENT: "SQUID" WEL. 500' MAGNETOMETER  
 METHOD: HORIZONTAL LOOP ELECTROMAGNETIC SURVEY  
 LISTED: ALGOMA ORE PROPERTIES LTD.  
 PROJECT: ALGOMA ORE PROPERTIES LTD.  
 SHEET: 1 OF 1  
 DATE: 12/5/56  
 DRAWN BY: J. W. BROWN  
 CHECKED BY: J. W. BROWN  
 APPROVED BY: J. W. BROWN  
 TITLE: HORIZONTAL LOOP ELECTROMAGNETIC SURVEY  
 ANOMALY NO. 52 B CENTRAL AREA  
 SCALE: 1" = 100'







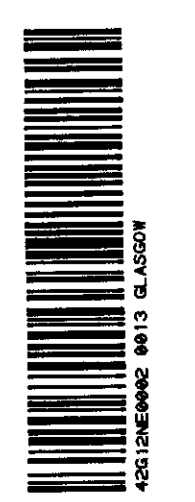
GLASGOW-0013 71  
 1:50,000 (1965-66)



ALGOMA ORE PROPERTIES LTD.  
 EXPLORATION DEPARTMENT  
 MAGNETOMETER 8  
 VERTICAL LOOP ELECTROMAGNETIC SURVEY  
 ANOMALY NO. 52 B CENTRAL AREA

SCALE 1" = 1000' (1:304,800) SEC. 5, 1966

INSTRUMENT: "Sears" MODEL A-1 MAGNETOMETER  
 WINDING: A.S.W.  
 METHOD: MAGNETIC LOOP  
 LEWIS: C.P. 1966  
 SP. ANGLE: 24 IN.  
 SCALE: 1:304,800 (1:304,800)  
 DATE: 1966  
 SCALE: 1:304,800





INSTRUMENT "SHARP" MODEL A-2 MAGNETOMETER

INSTRUMENT: BOMBA MARK IV  
 METHOD: IN LINE 30' SPREAD  
 LEGEND:  
 IN PHASE READINGS ———  
 OUT OF PHASE READINGS - - -  
 +S +S  
 IN OUT OF  
 PHASE PHASE  
 "R" POSITION OF RECEIVER AT START OF LINE  
 ↑ DIRECTION IN WHICH LINE WAS RUN

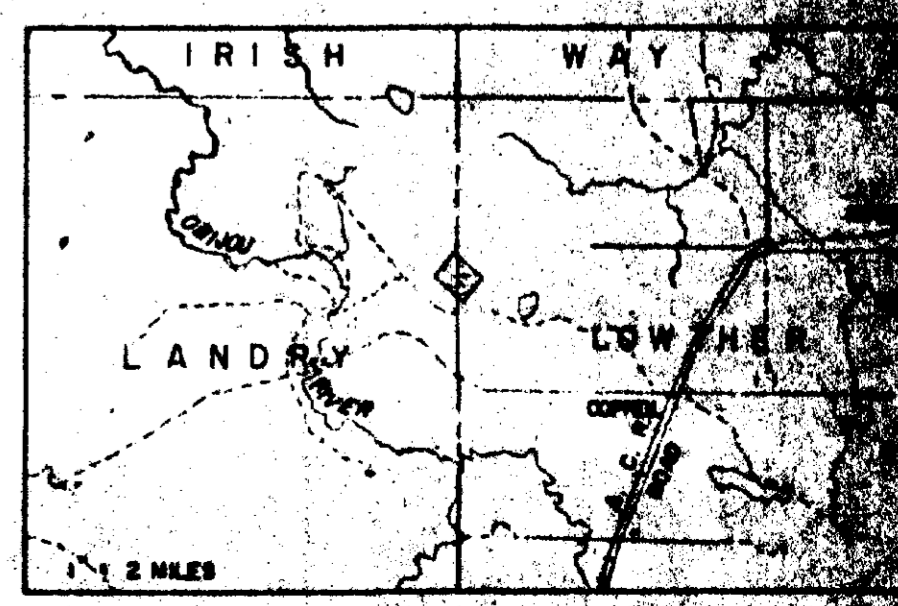
**ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT**

MAGNETOMETER B  
 HORIZONTAL LOOP ELECTROMAGNETIC SURVEY

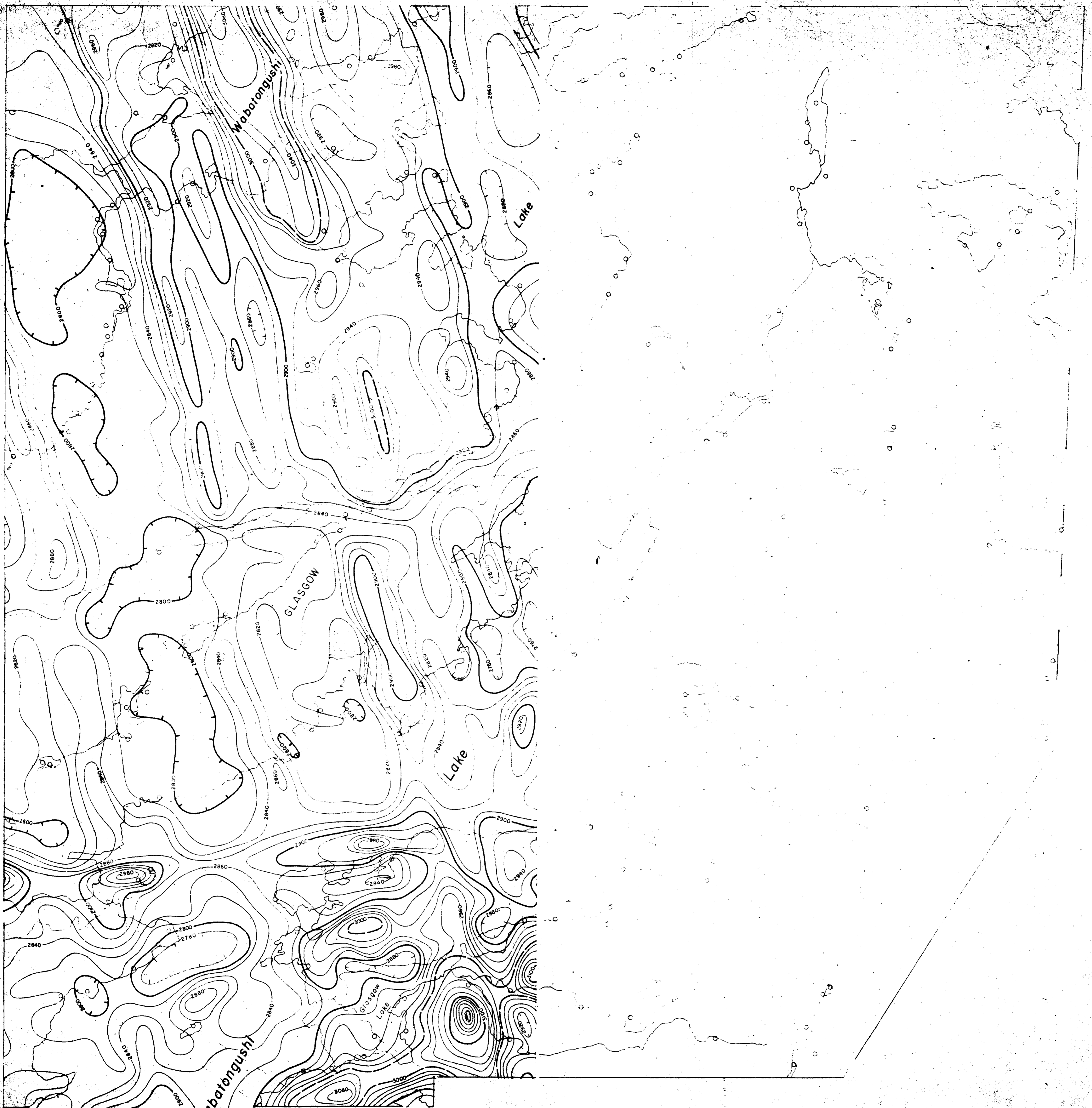
ANOMALY NO. 30 NORTH AREA

SCALE: 1" = 100' DEC. 26, 1961

LANDRY TWP.







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GLASGOW-0013 73

TOWNSHIP OF GLASGOW  
DISTRICT OF ALGOMA

ELECTROMAGNETIC CONTOUR  
MEAN FLIGHT LINE SPACING 660 FEET  
MEAN TERRAIN CLEARANCE 500 FEET  
RADIO-METRIC ANOMALY  
FIDUCIAL POINTS 880

SCALE  
1000 0 1000 2000 3000 4000 5000  
FEET  
1 inch to 1320 Feet







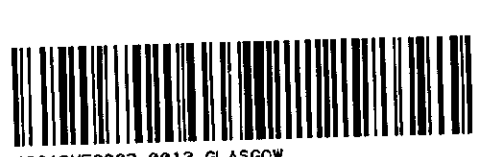




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- FOUR INTERVAL ..... 20 GAMMA
- W FLIGHT LINE SPACING ..... 640 FEET
- TERRAIN CLEARANCE ..... 500 FEET
- GAMMA CONTOUR .....
- GAMMA CONTOUR .....
- GAMMA CONTOUR .....
- TRIC LOW .....
- POINTS ..... 1490 O



274

TOWNSHIP OF MARTIN

SCALE  
 1000 0 1000 2000 3000 4000 5000  
 FEET  
 1 inch to 1320 Feet

NOT TO BE REMOVED FROM  
 THE OFFICE OF THE RESIDENT  
 GEOLOGIST, ONT. DEPT. OF MINES  
 SAULT STE. MARIE, ONT.

*Martin top  
 of mine  
 GLASGOW 0013 #75 1/2 by mile*





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GLASGOW - 0013 76

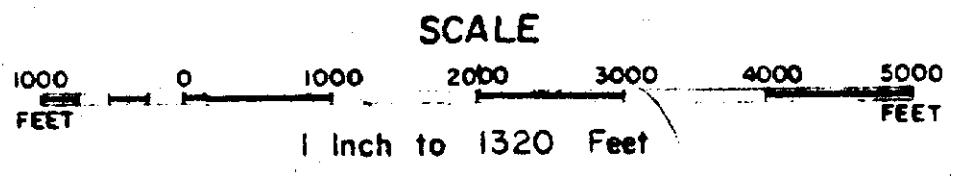


4512NE002 0013 GLASGOW

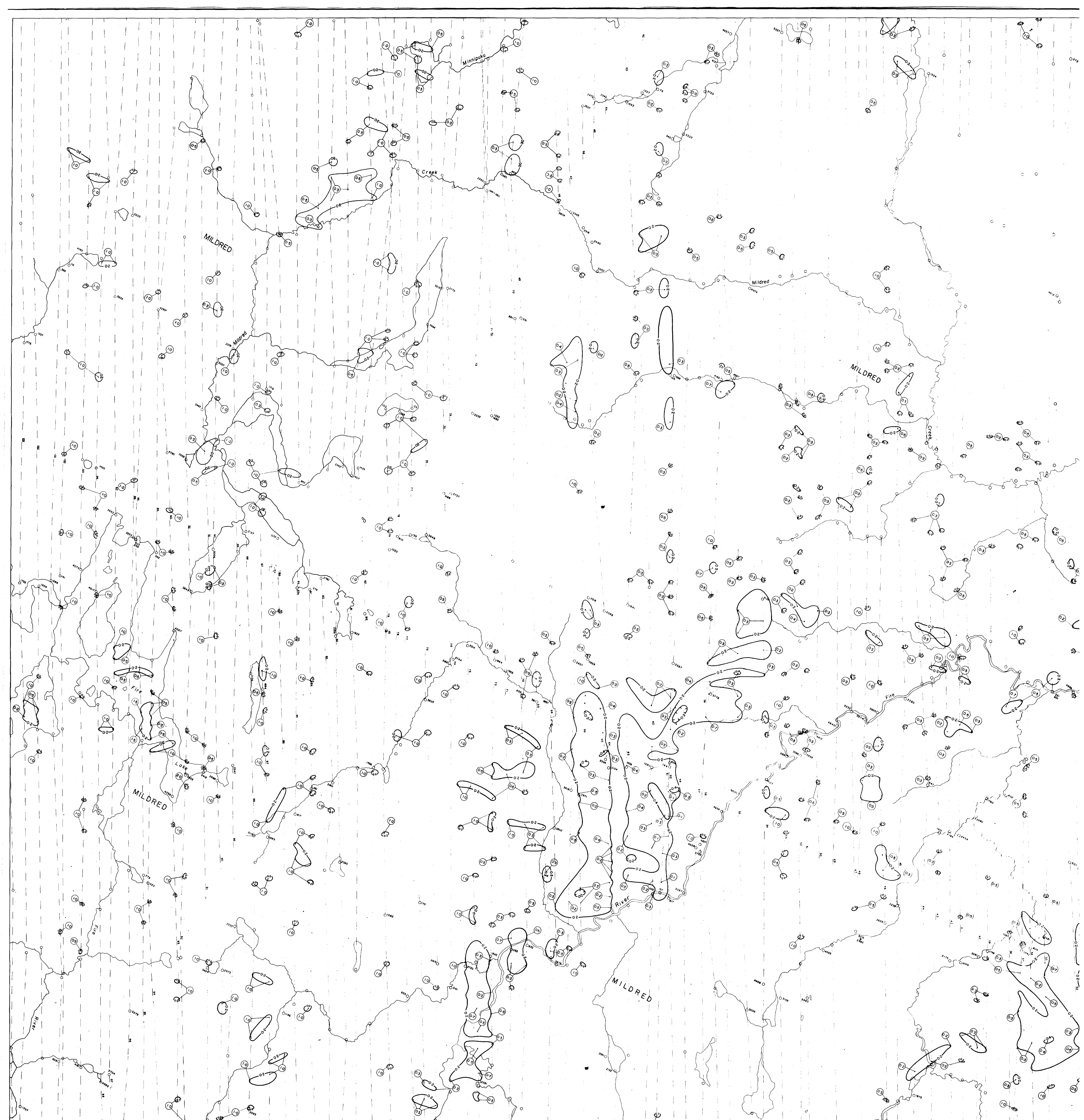
275

TOWNSHIP OF GLASGOW  
DISTRICT OF ALGOMA

- ELECTROMAGNETIC CONTOUR.....
- MEAN FLIGHT LINE SPACING..... 660 FEET
- MEAN TERRAIN CLEARANCE..... 500 FEET
- RADIOMETRIC ANOMALY.....
- FIDUCIAL POINTS..... 3490
- FLIGHT LINES..... 1 TO 73



Contours indicate out of phase component of the secondary fields induced by a 400 CPS primary field.  
Contour interval ..... 0.2 degrees  
The numbers shown thus ..... 1.5 are the ratios of  $\frac{400 \text{ CYCLE RESPONSE}}{2500 \text{ CYCLE RESPONSE}}$  and are a measure of the relative conductivity of the energized bodies.



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ELECTROMAGNETIC CONTOUR  
 MEAN FLIGHT LINE SPACING ..... 660 FEET  
 MEAN TERRAIN CLEARANCE ..... 500 FEET  
 MAGNETIC ANOMALY ..... 1000 O  
 FLIGHT LINES

TOWNSHIP OF MILDRED

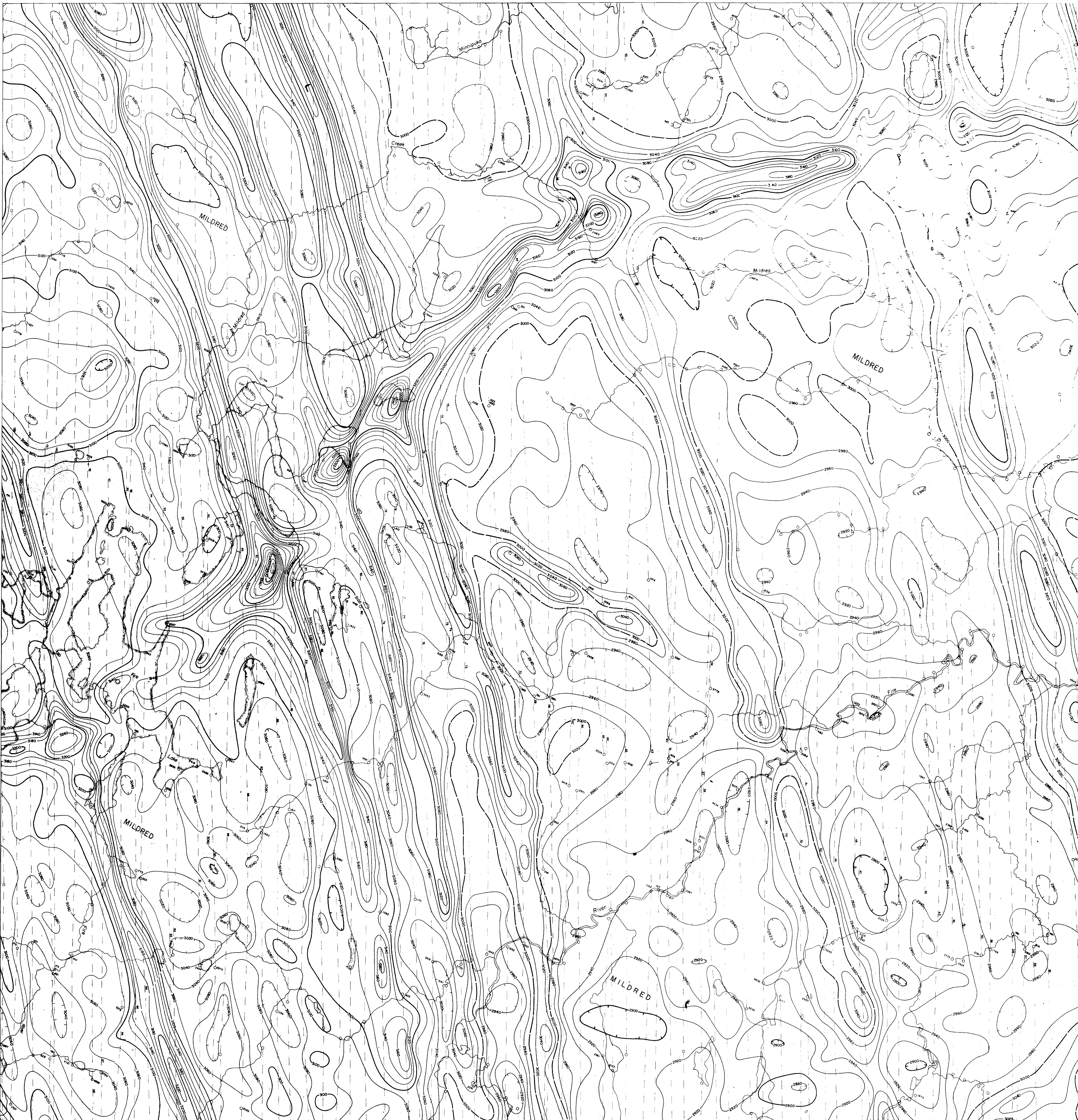
SCALE  
 1000 0 1000 2000 3000 4000 5000  
 FEET  
 1 inch to 1320 Feet

Contours indicate out of phase of the secondary fields induced by C.P.S. primary field.  
 Contour interval ..... 10  
 The numbers shown thus ..... 100  
 ratios of 400 CYCLE RESPONSE to 2300 CYCLE RESPONSE a measure of the relative conductivity energized bodies.



GRASEW 0013 #77  
 (DUP)



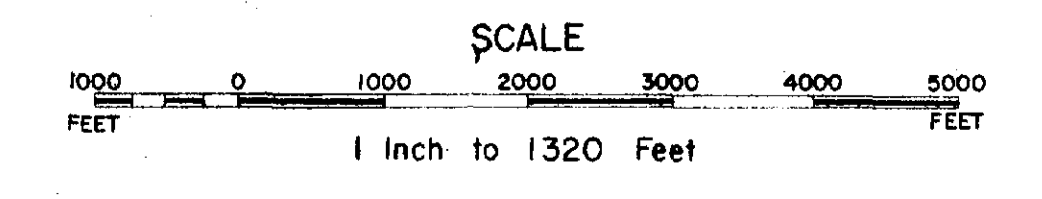


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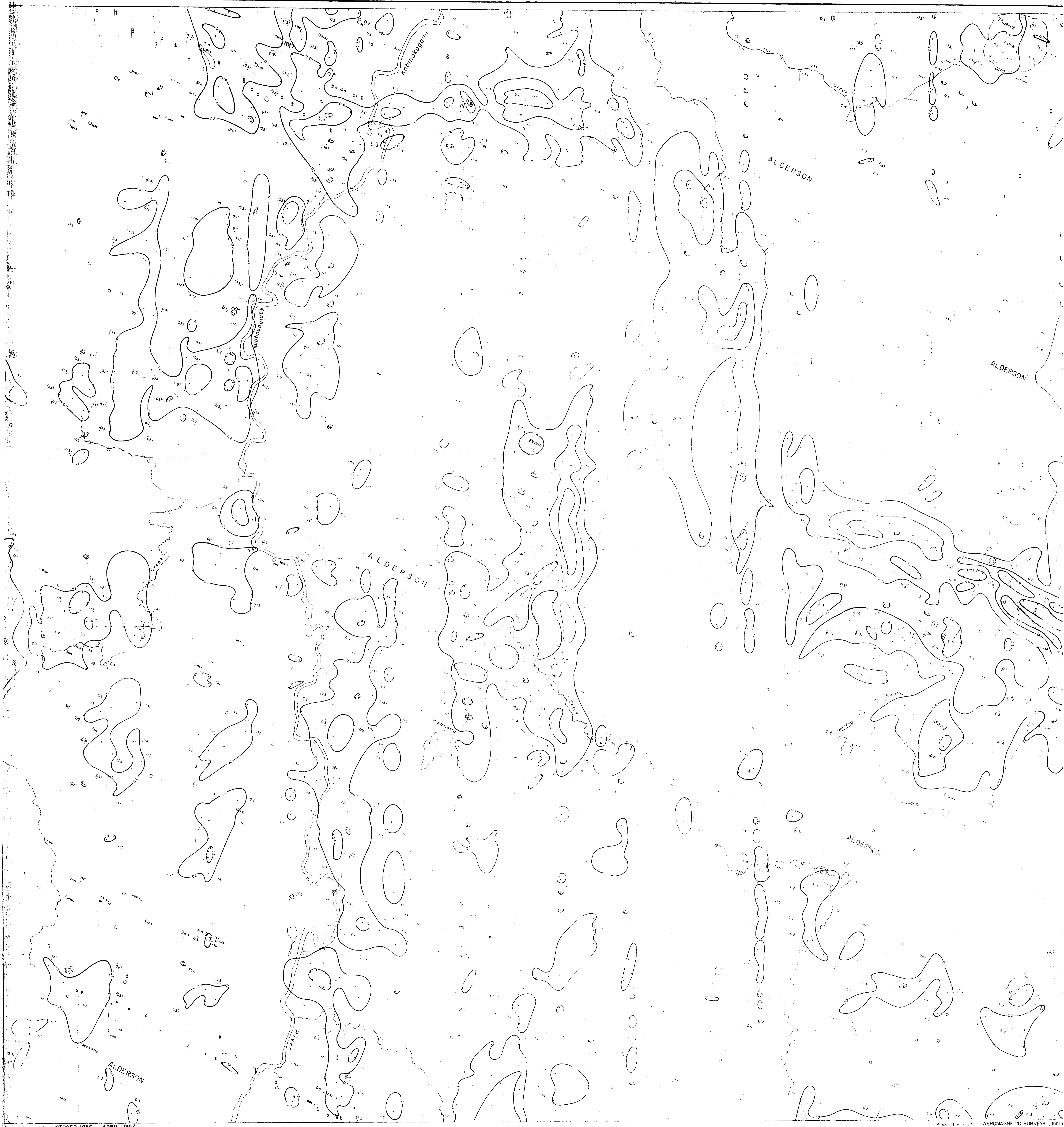
- INTEGRAL INTERVAL ..... 20 GAMMA
- PLAN FLIGHT LINE SPACING ..... 660 FEET
- PLAN TERRAIN CLEARANCE ..... 500 FEET
- 10 GAMMA CONTOUR .....
- 5 GAMMA CONTOUR .....
- 1 GAMMA CONTOUR .....
- MAGNETIC LOW .....
- DUGAL POINTS ..... 1480 0

TOWNSHIP OF MILDRED



GLASGOW 0013 #2





Survey and compiled in OCTOBER 1956 - APRIL 1957

Produced by AEROMAGNETIC SURVEYS LIMITED  
GLASGOW-0013 7c

CHROMAGNETIC CONTOUR  
 1/4" FLIGHT LINE SPACING  
 1/4" TERRAIN CLEARANCE  
 1/4" MAGNETIC ANOMALY  
 1/4" DISTANCE  
 1/4" TIME

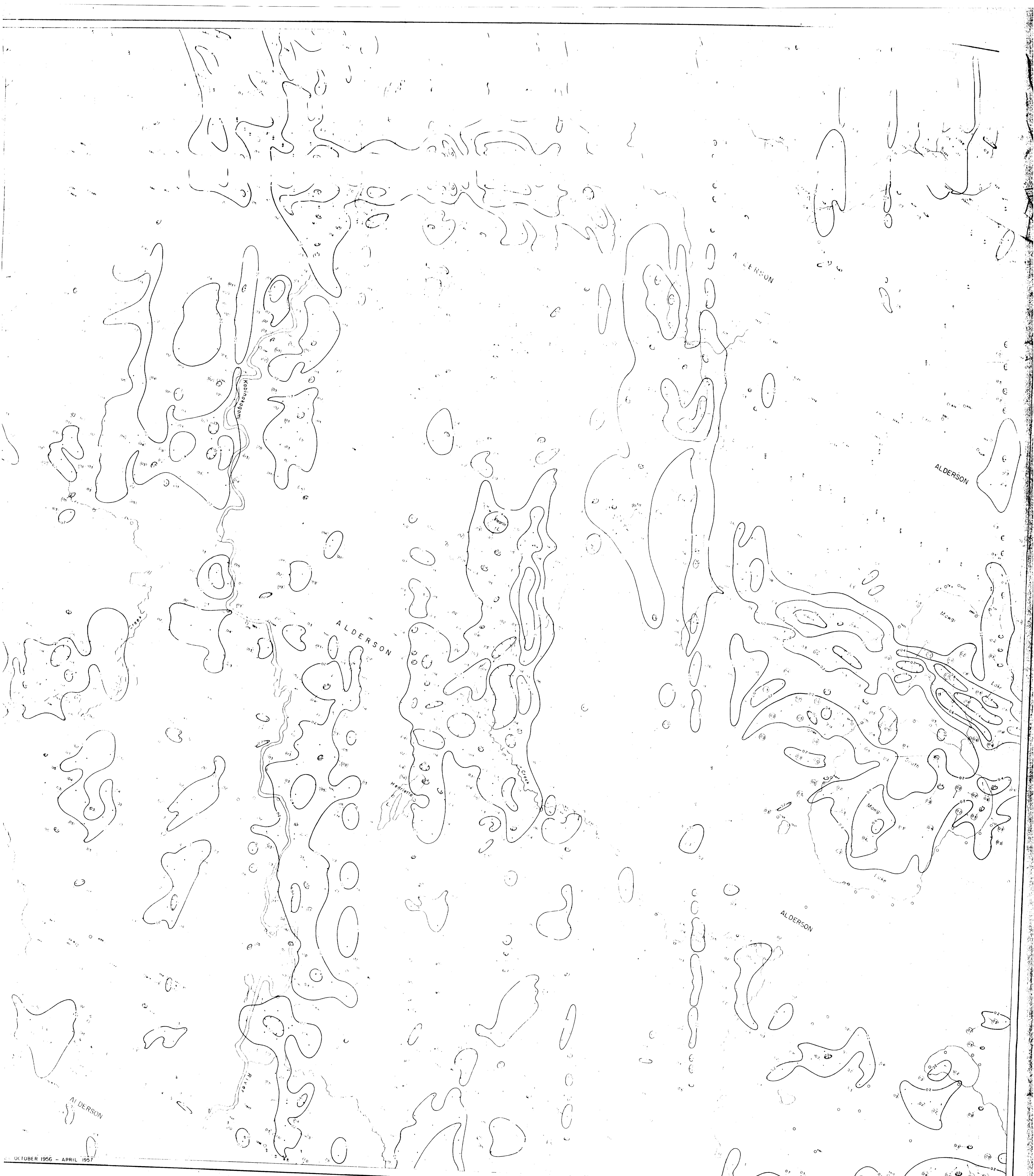
TOWNSHIP OF ALDERSON

SCALE  
 0 1000 2000 3000 4000 5000  
 FEET  
 1 Inch to 1320 Feet

WEST SHEET

Contours indicate out of phase  
 of the secondary fields induced  
 C.P.S. primary field  
 Contour interval  
 The numbers shown thus  
 result of 400 cycle magnetic  
 2300 CYCLE PER SECOND  
 measure of the relative conductivity  
 energized bodies.





OCTOBER 1956 - APRIL 1957

TOWNSHIP OF ALDERSON

SCALE  
 0 1000 2000 3000 4000 5000  
 FEET  
 1 inch to 1320 Feet

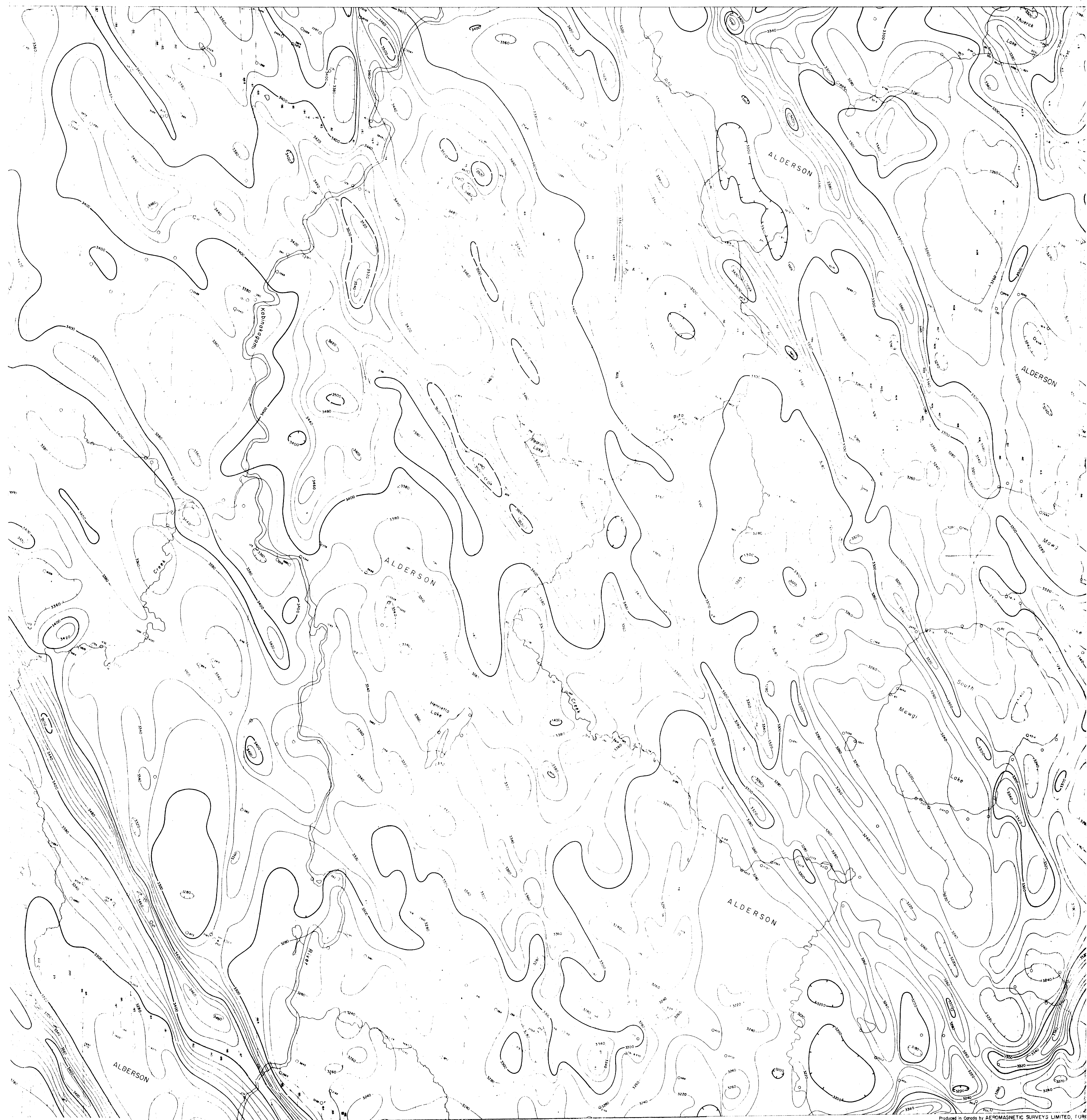
Produced in Canada by AEROMAGNETIC SURVEYS LIMITED, TORONTO

GLASGOW-0013 79

Contours indicate out of phase component of the secondary fields induced by a 400 CPS primary field  
 Contour interval 0.2 degrees  
 The numbers shown thus (15) are the ratio of 400 CYCLE RESPONSE to 300 CYCLE RESPONSE and are a measure of the relative conductivity of the energized bodies





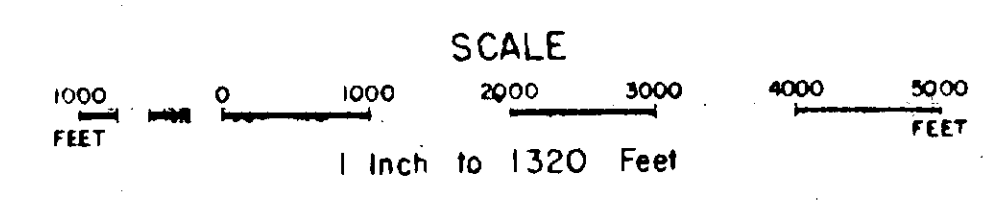


57

Produced in Canada by AEROMAGNETIC SURVEYS LIMITED, LTD.

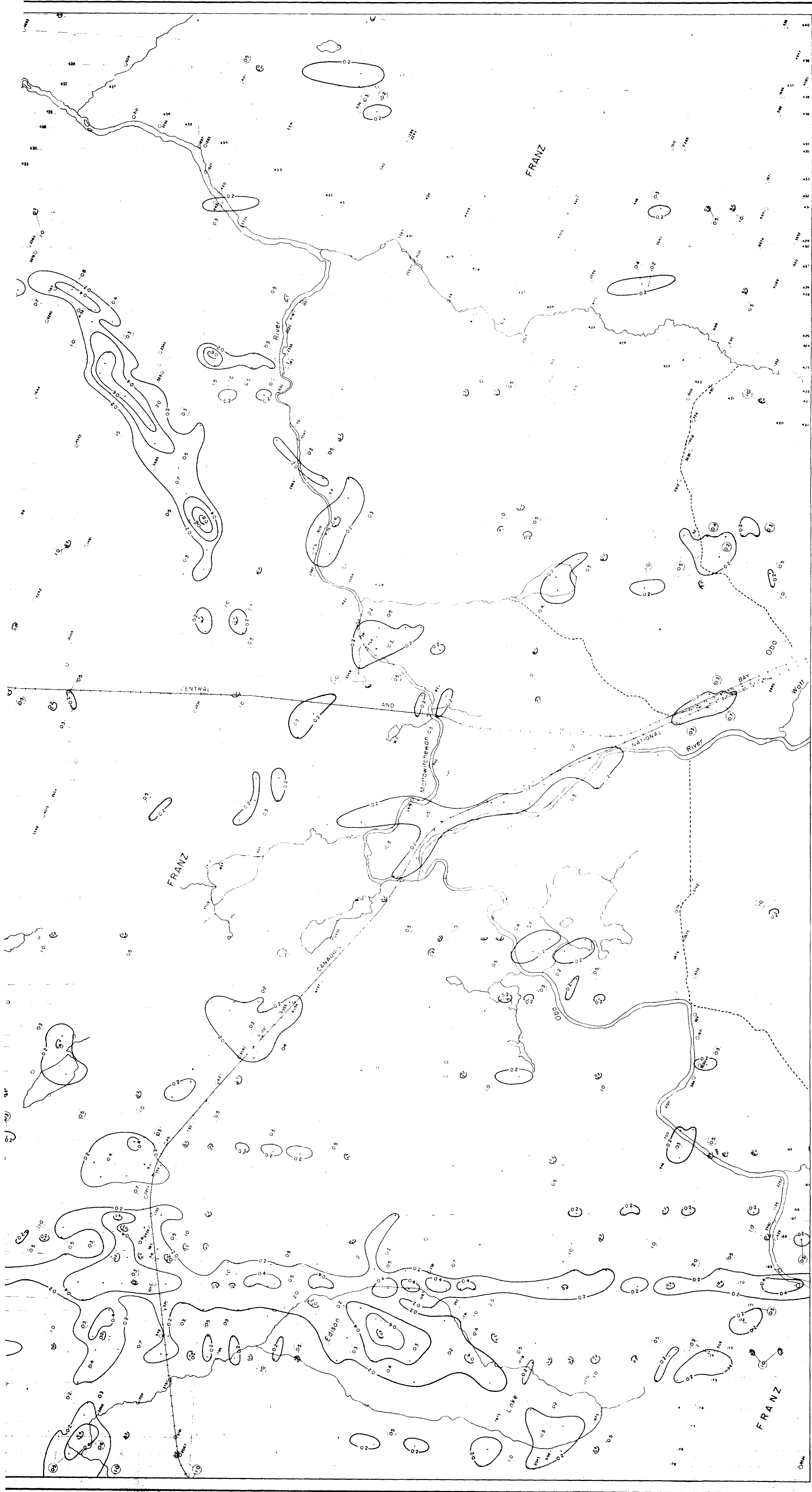
GLAS90W-0013-#80

TOWNSHIP OF ALDERSON



- 20 GAMMA
- 660 FEET
- 500 FEET
- NETIC LOW
- ICAL POINTS
- HT LINES





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 Produced in Canada by AEROMAGNETIC SURVEYS LIMITED, TORONTO  
 GLASGOW - 001381

Contours indicate out of phase component  
 of the secondary fields induced by a 400  
 C.P.S. primary field.  
 Contour interval: 0.2 degrees  
 The numbers shown thus: 0.2 are the  
 ratios of  $\frac{\text{Secondary Field}}{\text{Primary Field}}$  and are a  
 measure of the relative conductivity of the  
 energized bodies.

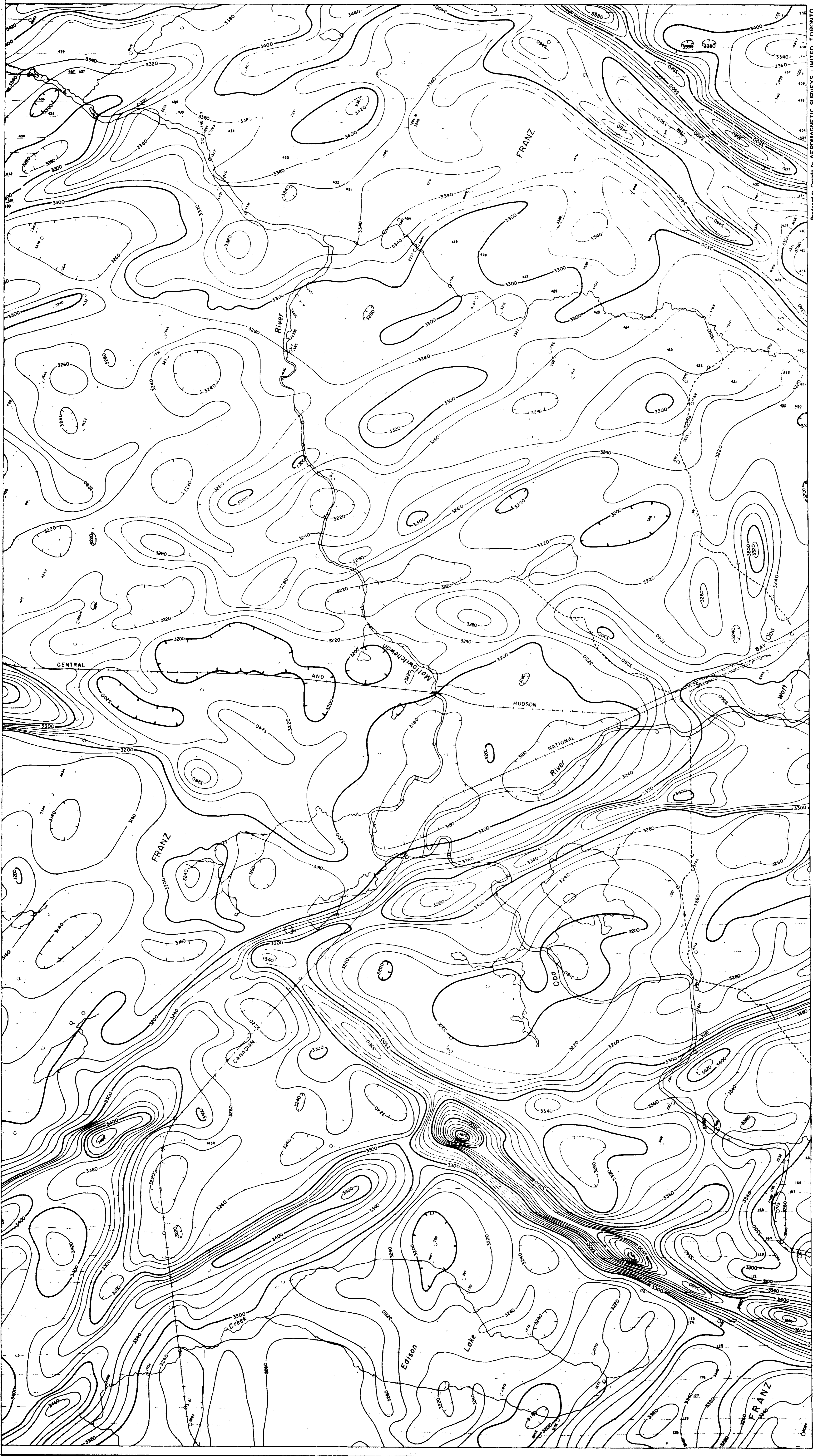
### TOWNSHIP OF FRANZ

SCALE  
 1:1320 Feet  
 1000 FEET — 0 1000 2000 3000 4000 5000 FEET

ELECTROMAGNETIC CONTOUR  
 MEAN FLIGHT LINE SPACING — 660 FEET  
 MEAN TERRAIN CLEARANCE — 500 FEET  
 MAGNETIC ANOMALY  
 PROSPECT POINTS — 1:5000  
 FLIGHT LINES





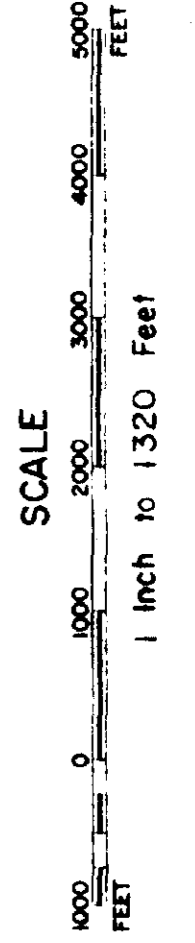


Produced in Canada by AEROMAGNETIC SURVEYS LIMITED, TORONTO

Plan and Compiled in OCTOBER 1956 - APRIL 1957

GLASgow-0013 22

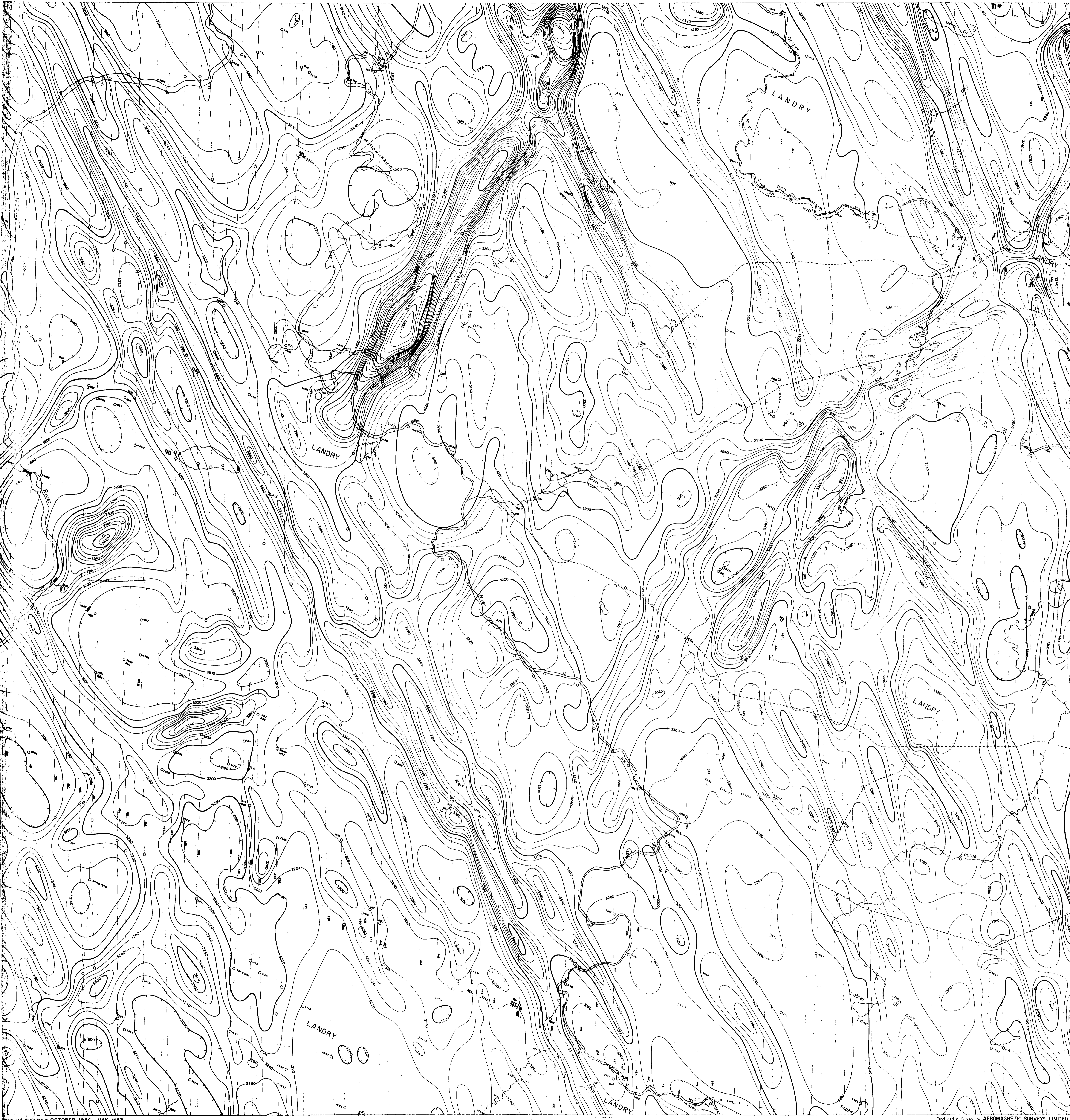
### TOWNSHIP OF FRANZ



- CONTOUR INTERVAL..... 20 GAMMA
- MEAN FLIGHT LINE SPACING..... 640 FEET
- MEAN TERRAIN CLEARANCE..... 500 FEET
- 500 GAMMA CONTOUR.....
- 100 GAMMA CONTOUR.....
- 20 GAMMA CONTOUR.....
- MAGNETIC LOW.....
- FIDUCIAL POINTS.....
- PIECELINES.....







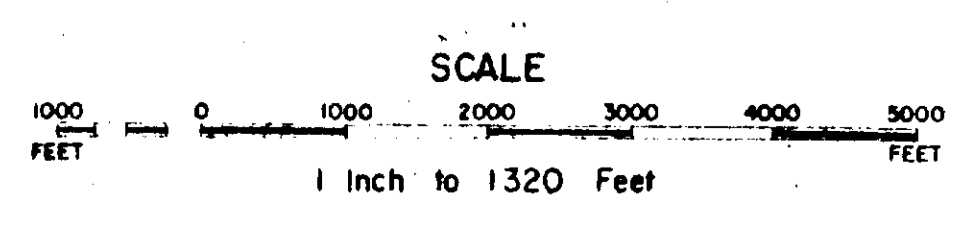
Drawn and Compiled in OCTOBER 1956-MAY 1957

Produced in Canada by AEROMAGNETIC SURVEYS LIMITED

- FLIGHT INTERVAL ..... 20 GAMMA
- FLIGHT LINE SPACING ..... 800 FEET
- TERRAIN CLEARANCE ..... 800 FEET
- GAMMA CONTOUR .....
- GAMMA CONTOUR .....
- NETIC LOW .....
- AL POINTS .....
- BY LINES .....

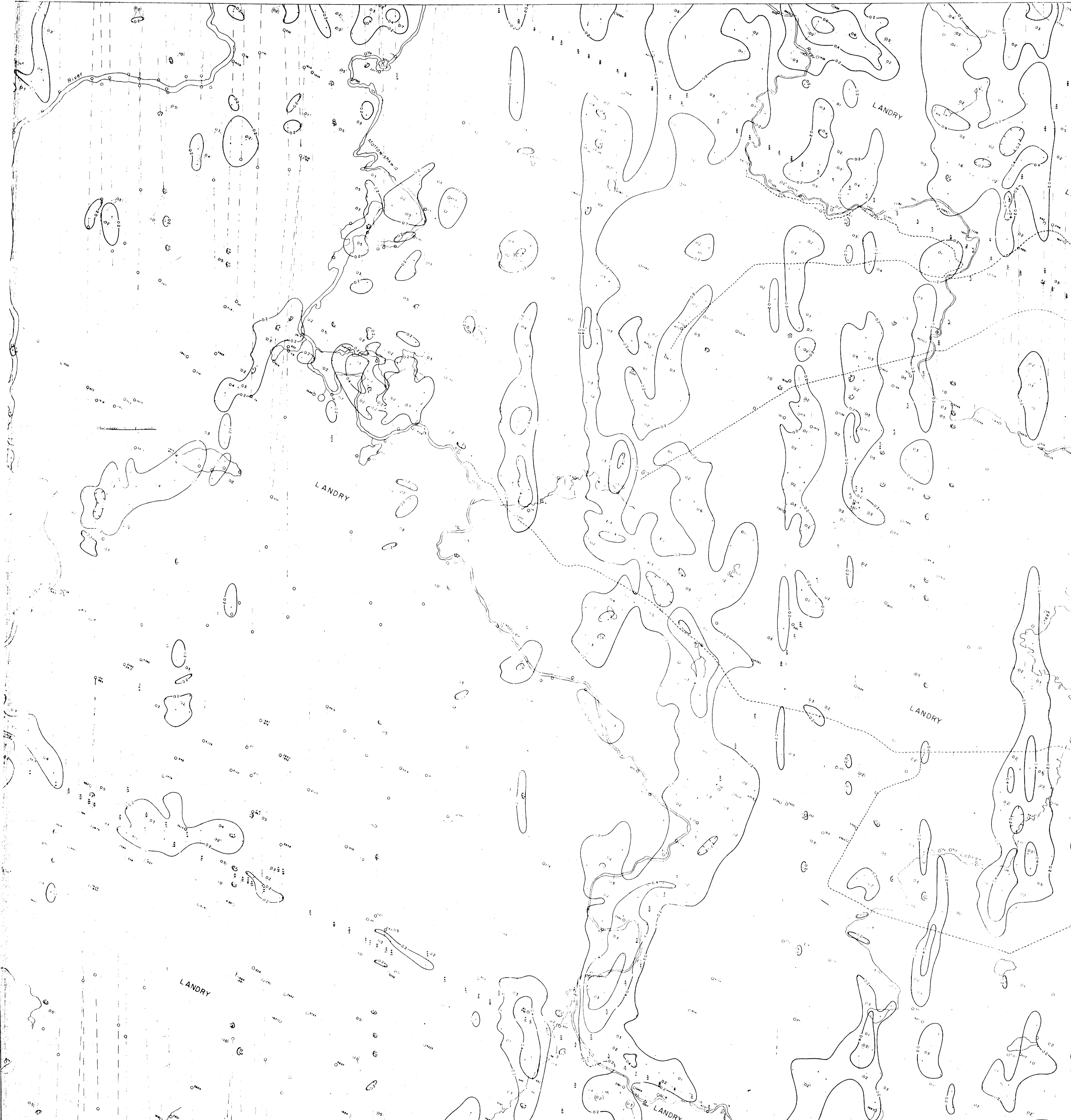
TOWNSHIP OF LANDRY

MA5



GLASGOW 0013





Map Compiled in OCTOBER 1956 - MAY 1957

Produced in Canada by AEROMAGNETIC SURVEYS LIMITED

GLASGOW - 0013 8

AEROMAGNETIC CONTOUR  
 FLIGHT LINE SPACING 500 FEET  
 TERRAIN CLEARANCE 500 FEET  
 METHOD ANOMALY  
 MAG. INTENS. 1000  
 HT. LINES

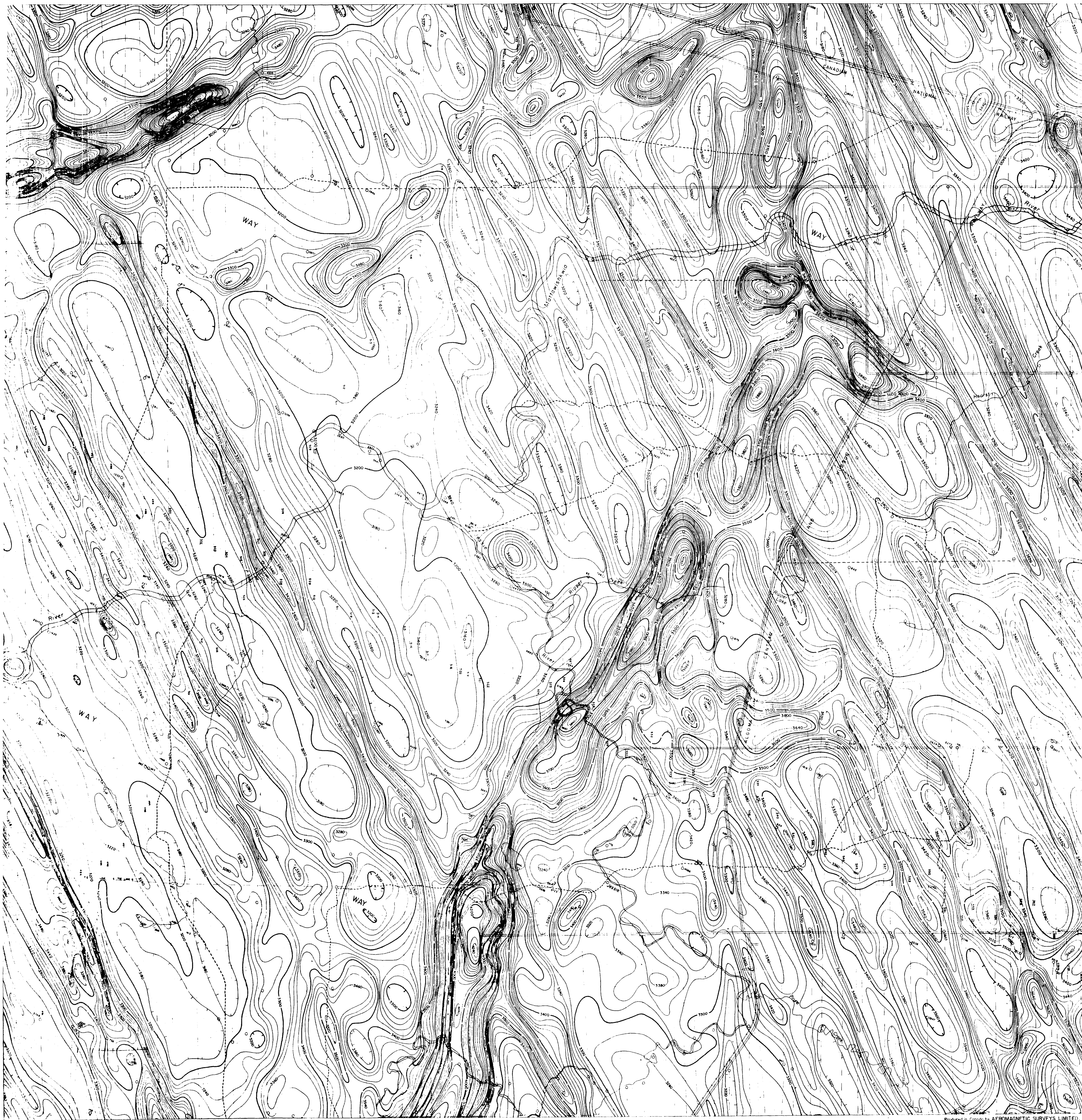
TOWNSHIP OF LANDRY

SCALE  
 1000 2000 3000 4000 5000  
 FEET  
 1 inch to 1320 Feet

Contours indicate out of phase  
 of the secondary fields induced  
 C.P.S primary field.  
 Contour interval.  
 The numbers shown thus  
 ratios of 400 CYCLE RESPONSE  
 ratios of 2500 CYCLE RESPONSE  
 measure of the relative conduct  
 energized bodies.





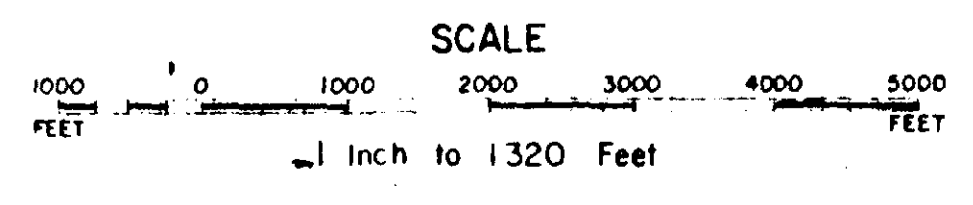


Compiled in OCTOBER 1956 - MAY 1957

Produced in Canada by AEROMAGNETIC SURVEYS LIMITED, T

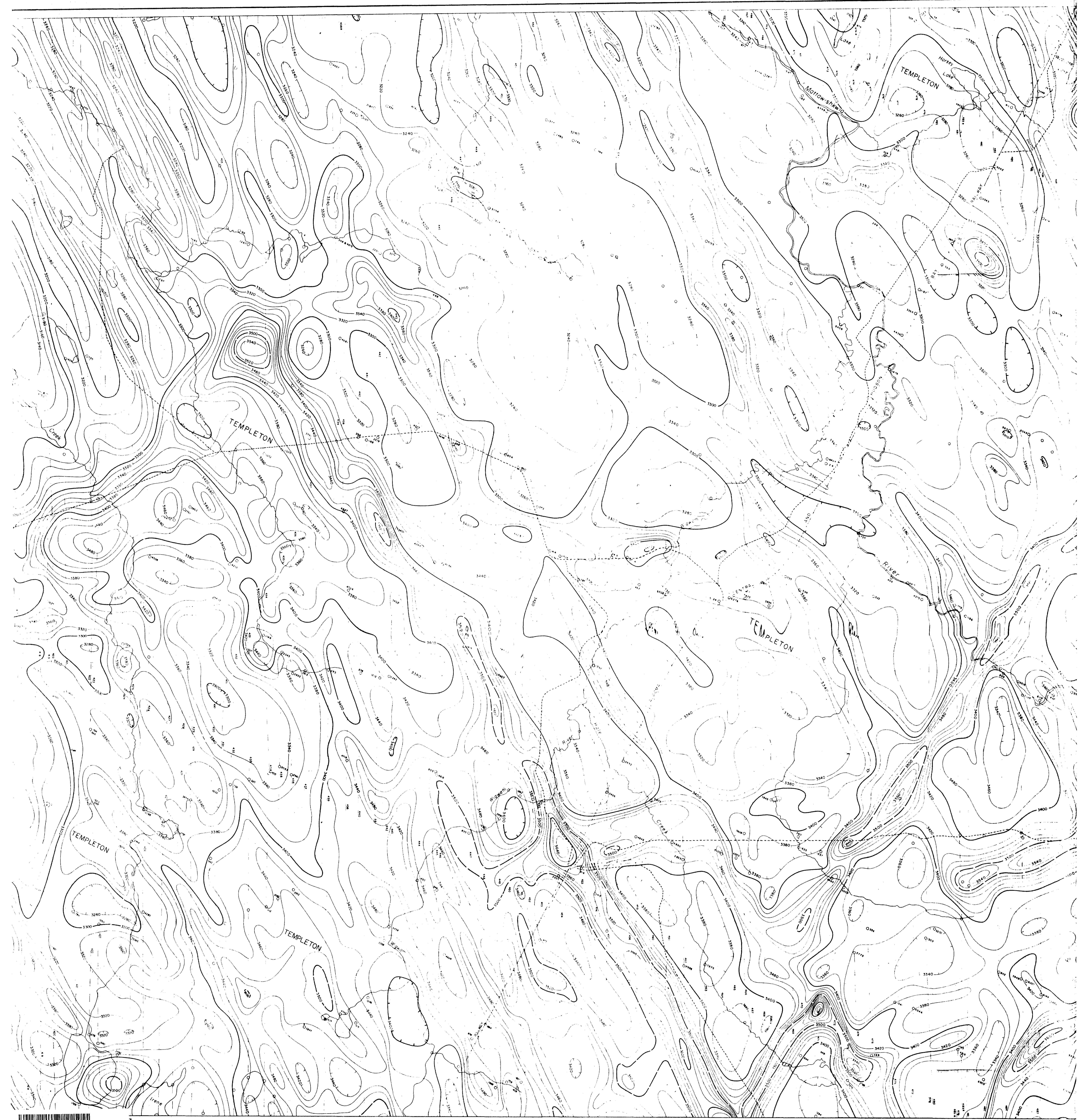
GLASGOW-0013-85

TOWNSHIP OF WAY



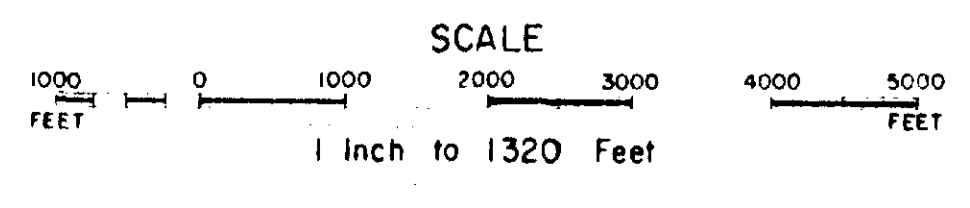
- 100' INTERVAL ..... 20 GAMMA
- 50' INTERVAL ..... 40 GAMMA
- 25' INTERVAL ..... 80 GAMMA
- 10' INTERVAL ..... 160 GAMMA
- 5' INTERVAL ..... 320 GAMMA
- 2' INTERVAL ..... 640 GAMMA
- 1' INTERVAL ..... 1280 GAMMA
- 500 FEET CLEARANCE ..... 500 FEET
- 250 FEET CLEARANCE ..... 250 FEET
- 125 FEET CLEARANCE ..... 125 FEET
- 62.5 FEET CLEARANCE ..... 62.5 FEET
- 31.25 FEET CLEARANCE ..... 31.25 FEET
- 15.625 FEET CLEARANCE ..... 15.625 FEET
- 7.8125 FEET CLEARANCE ..... 7.8125 FEET
- 3.90625 FEET CLEARANCE ..... 3.90625 FEET
- 1.953125 FEET CLEARANCE ..... 1.953125 FEET
- 0.9765625 FEET CLEARANCE ..... 0.9765625 FEET
- 0.48828125 FEET CLEARANCE ..... 0.48828125 FEET
- 0.244140625 FEET CLEARANCE ..... 0.244140625 FEET
- 0.1220703125 FEET CLEARANCE ..... 0.1220703125 FEET
- 0.06103515625 FEET CLEARANCE ..... 0.06103515625 FEET
- 0.030517578125 FEET CLEARANCE ..... 0.030517578125 FEET
- 0.0152587890625 FEET CLEARANCE ..... 0.0152587890625 FEET
- 0.00762939453125 FEET CLEARANCE ..... 0.00762939453125 FEET
- 0.003814697265625 FEET CLEARANCE ..... 0.003814697265625 FEET
- 0.0019073486328125 FEET CLEARANCE ..... 0.0019073486328125 FEET
- 0.00095367431640625 FEET CLEARANCE ..... 0.00095367431640625 FEET
- 0.000476837158203125 FEET CLEARANCE ..... 0.000476837158203125 FEET
- 0.0002384185791015625 FEET CLEARANCE ..... 0.0002384185791015625 FEET
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- 0.000059604644775390625 FEET CLEARANCE ..... 0.000059604644775390625 FEET
- 0.0000298023223876953125 FEET CLEARANCE ..... 0.0000298023223876953125 FEET
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- 0.0000004656612873077392578125 FEET CLEARANCE ..... 0.0000004656612873077392578125 FEET
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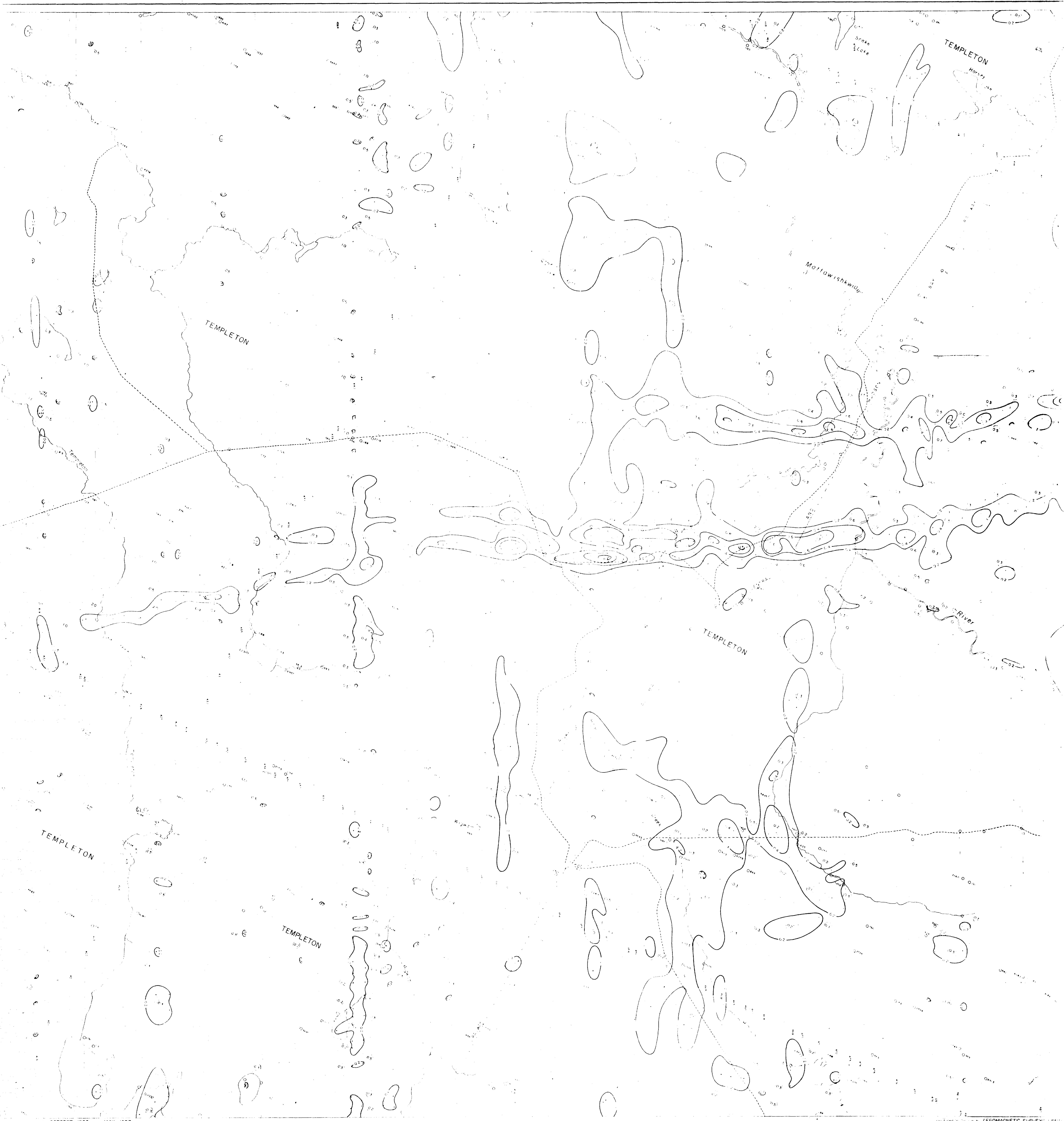
R INTERVAL ..... 20 GAMMA  
 FLIGHT LINE SPACING ..... 660 FEET  
 TERRAIN CLEARANCE ..... 500 FEET  
 SMA CONTOUR .....  
 MMA CONTOUR .....  
 IC LOW .....  
 IC POINTS .....  
 LINES .....

TOWNSHIP OF TEMPLETON



Produced in Canada by AEROMAGNETIC SURVEYS LIMITED, TOR  
 glasgow-0013 86





Map compiled in OCTOBER 1956 - MAY 1957

U.S. GEOLOGICAL SURVEY AEROMAGNETIC SURVEY

GLASGOW-0013-27

1:50,000 MAGNETIC CONTOUR  
1:50,000 FEET LINE SPACING  
1:50,000 FEET CLEARANCE  
MAGNETIC ANOMALY  
HEIGHT IN FEET  
MILE MARKS

### TOWNSHIP OF TEMPLETON

SCALE  
1 inch to 1320 Feet

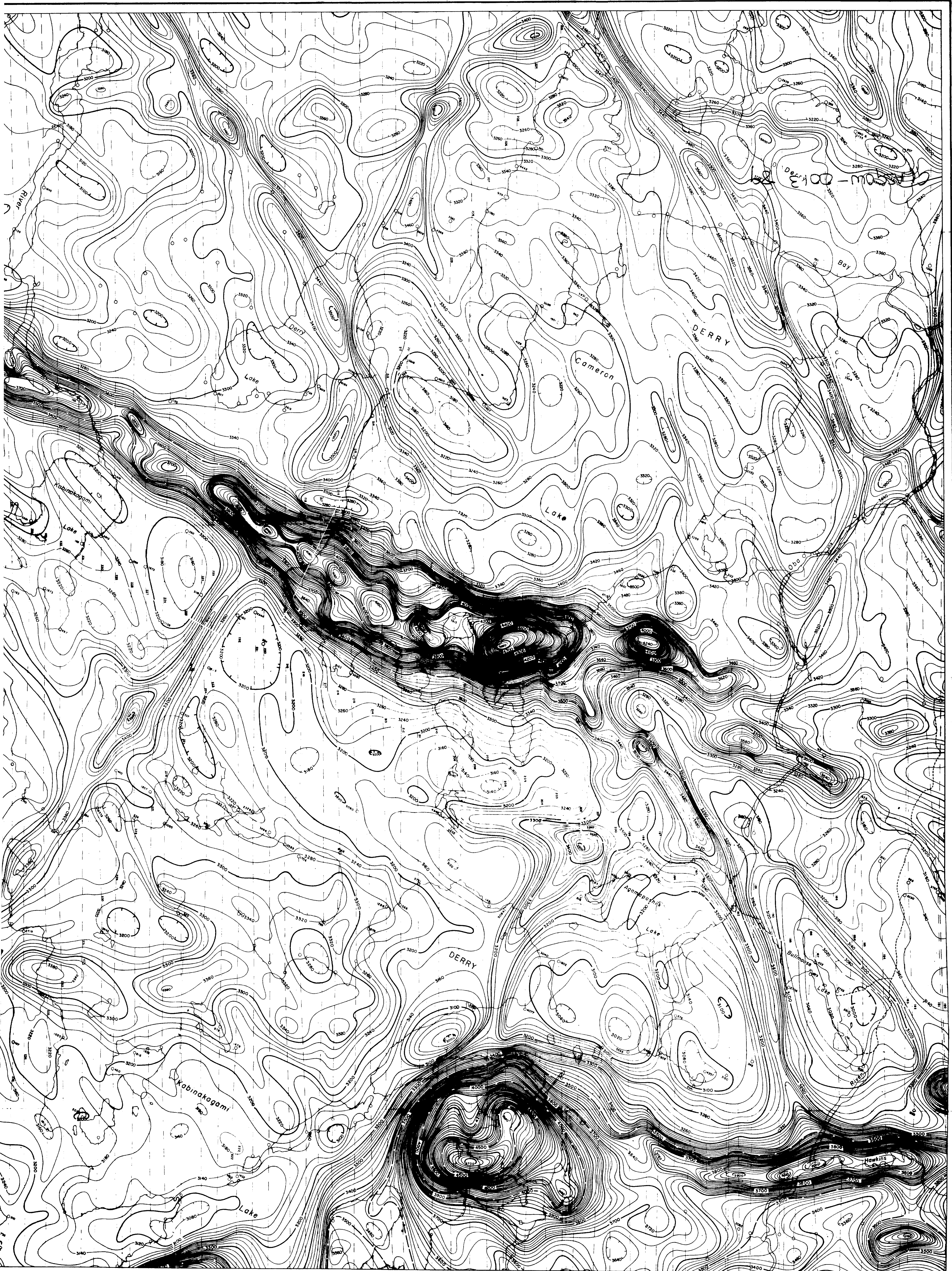
Contours indicate elevation  
at the secondary field level of  
C.P.S. primary field  
Contour interval  
The numbers shown thus  
refer to the relative vertical  
measure of the relative vertical  
energized beams.





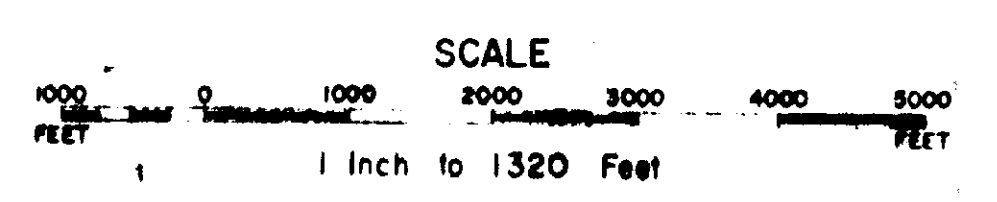






Produced in Canada by AEROMAGNETIC SURVEYS LIMITED, TORONTO

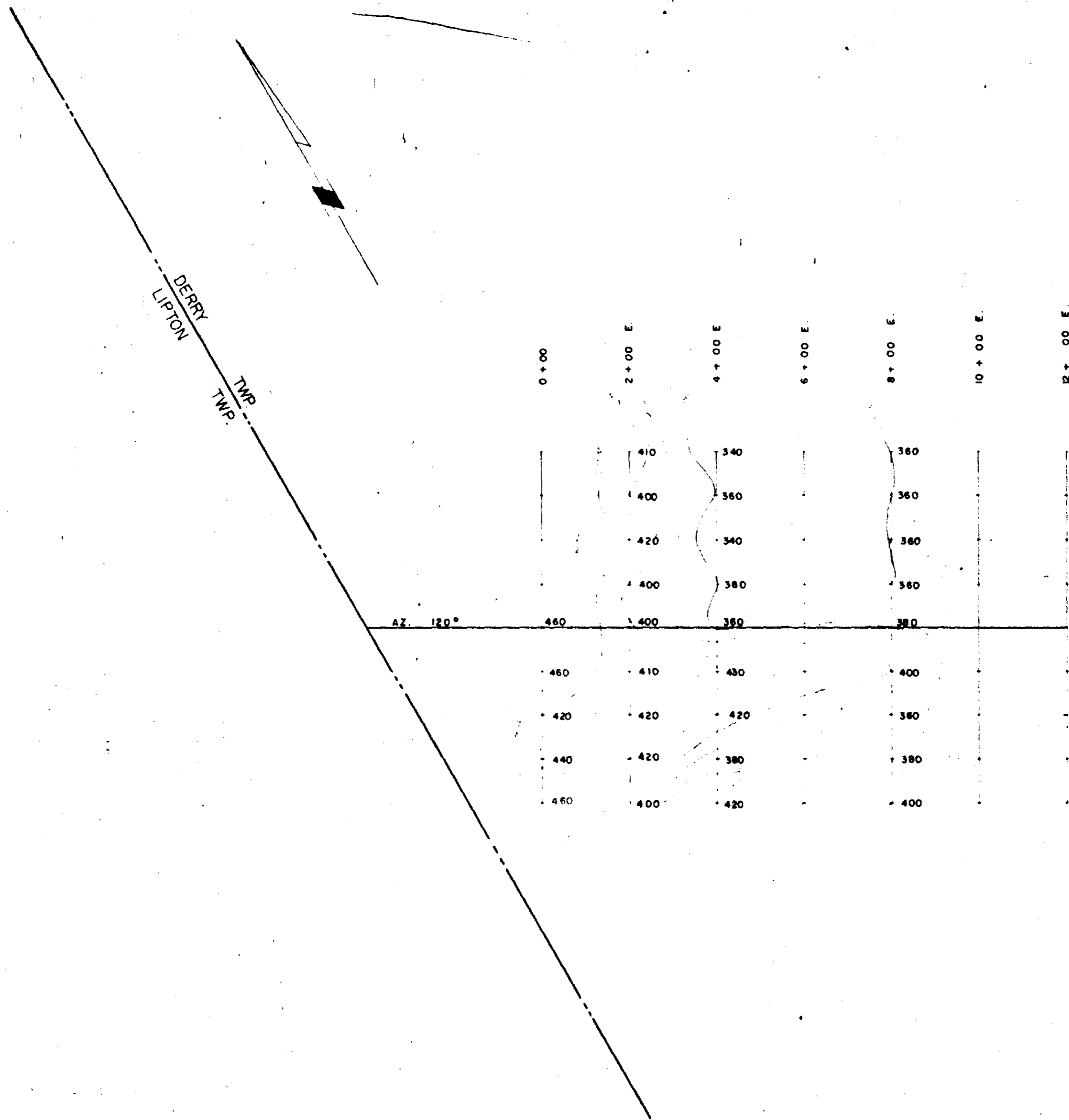
### TOWNSHIP OF DERRY



File # 63-1253 (1954-'58)

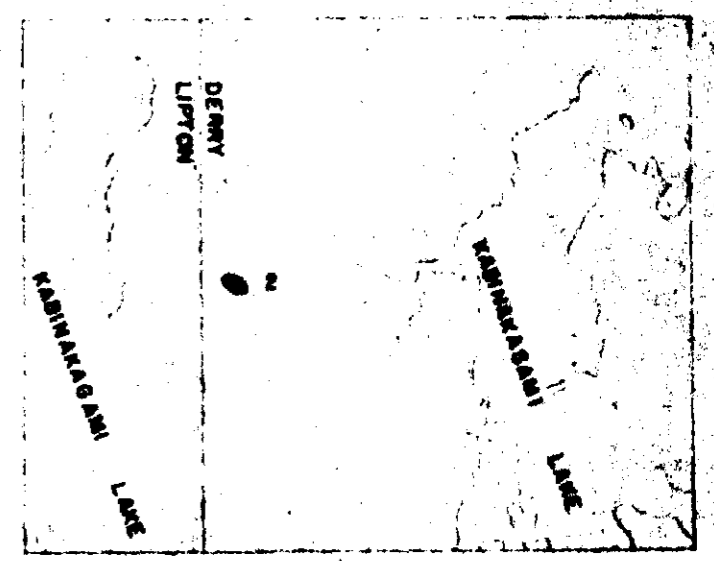


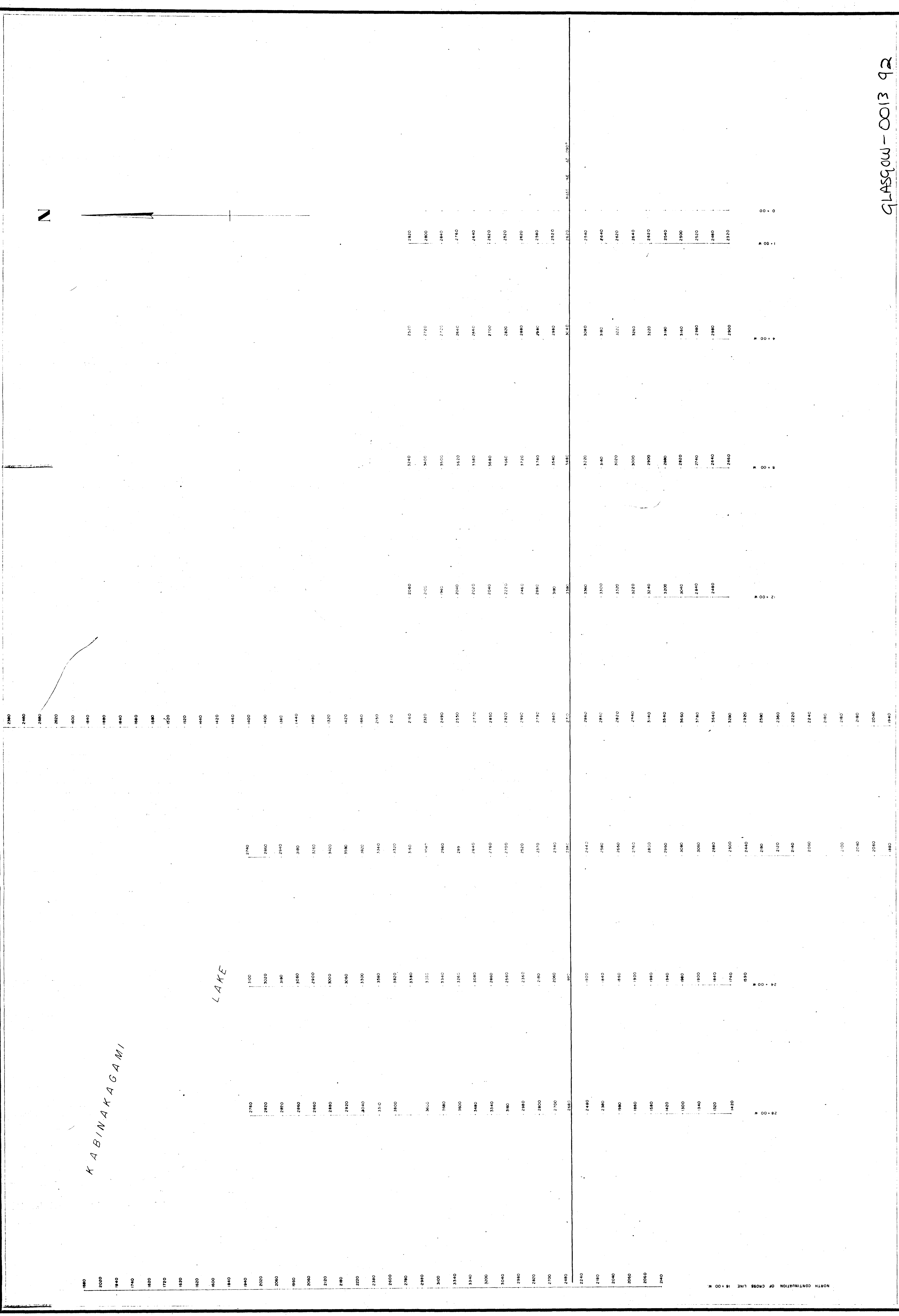




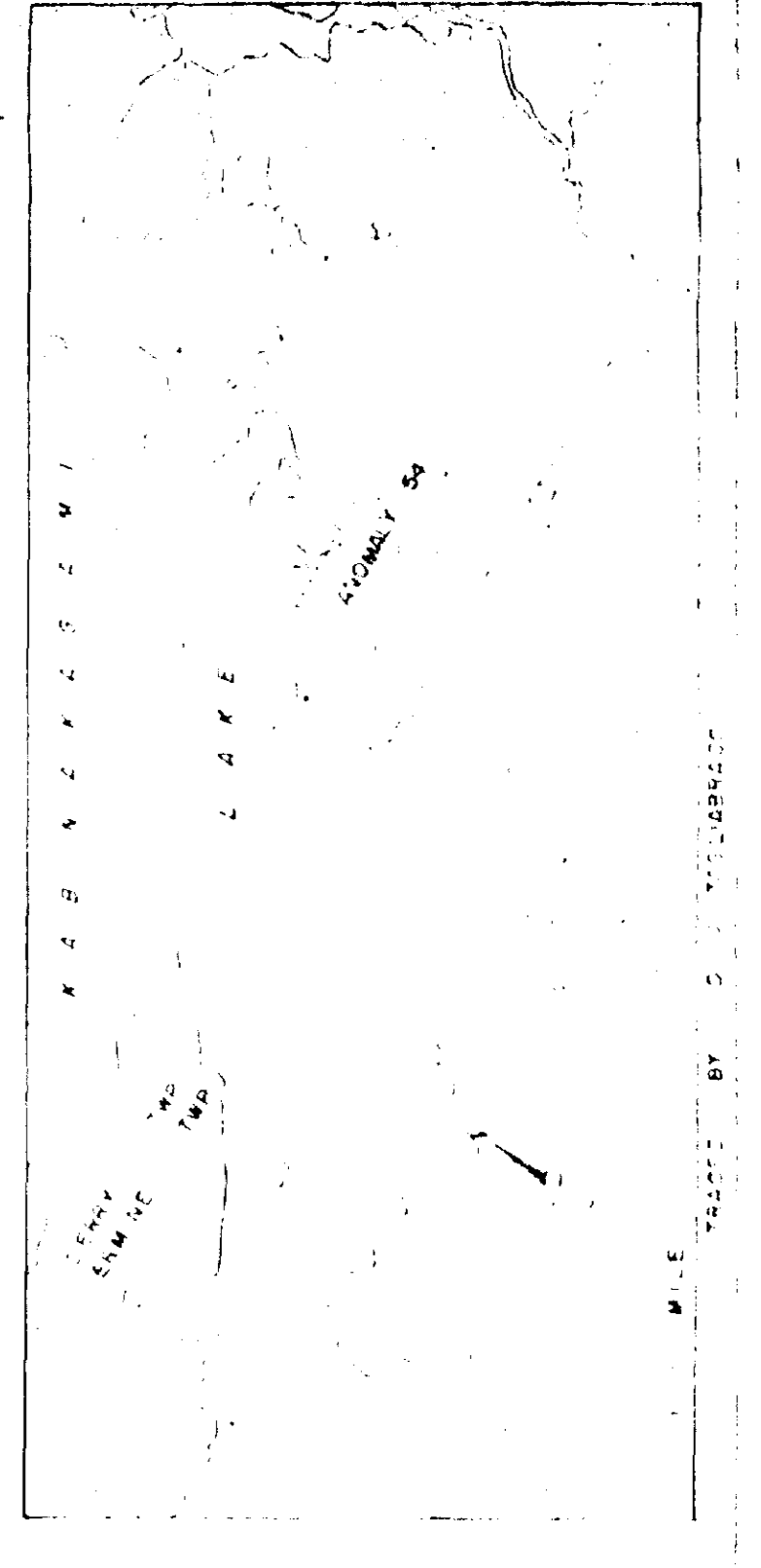
GLASGOW - 0013 91

ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT  
 BLOCK "C"  
 ANOMALY - 2  
 DERRY TWP.  
 MAGNETOMETER SURVEY  
 SCALE 1" = 200' JUNE 1958.



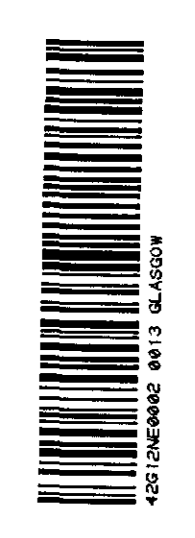


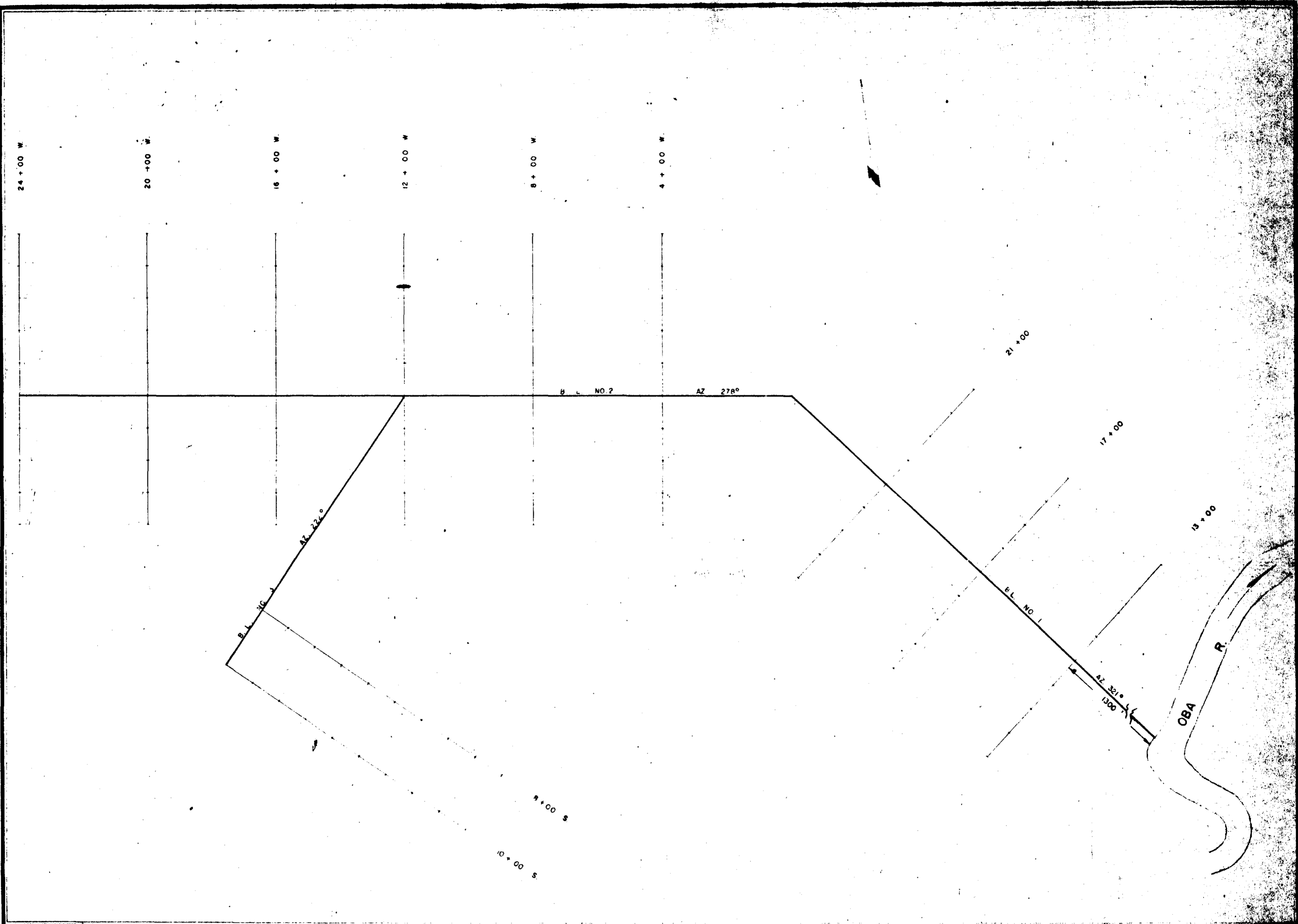
GLASGOW-0013 92



ALGOMA ORE PROPERTIES LTD.  
 EXPLORATION DEPARTMENT  
 MAGNETOMETER SURVEY  
 ANOMALY NO. 54 BLOCK "C"

LEGEND  
 INSTRUMENT "SHARPE" MODEL A-2 MAGNETOMETER  
 RECORDS IN GAMMAS

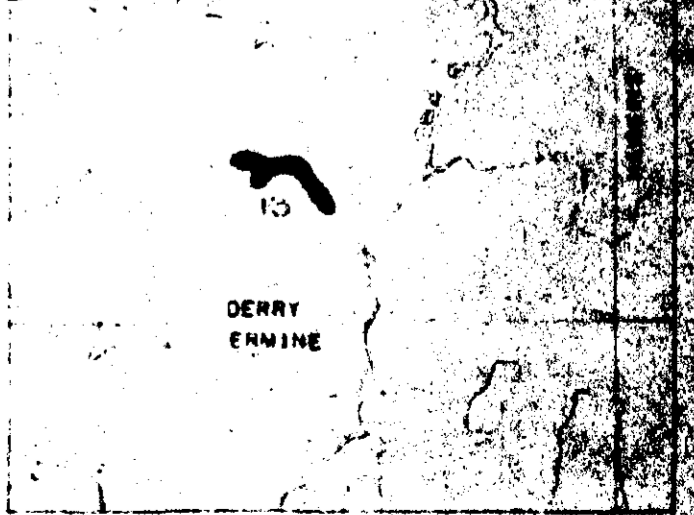




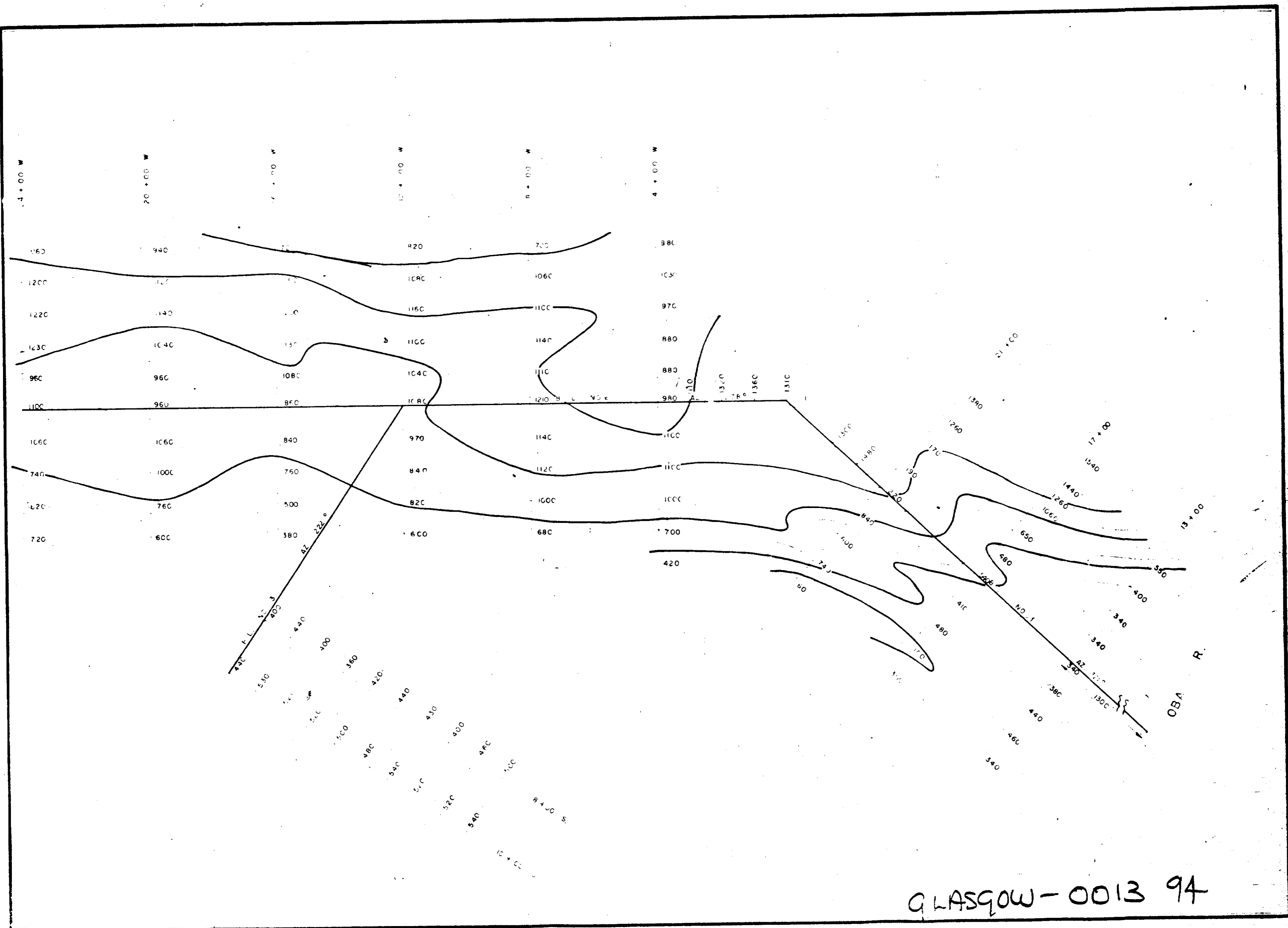
**LEGEND**  
 M<sup>c</sup> PHAR R. E. M.  
 ——— 1000 C.P.S.  
 - - - 5000 C.P.S.  
 ● CONDUCTOR

ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT  
**BLOCK "C"**  
 ANOMALY - 13  
 DERRY TWP.  
 ELECTROMAGNETIC SURVEY  
 SCALE 1" = 200' JUNE 1958

GLASGOW - 0013  
 93



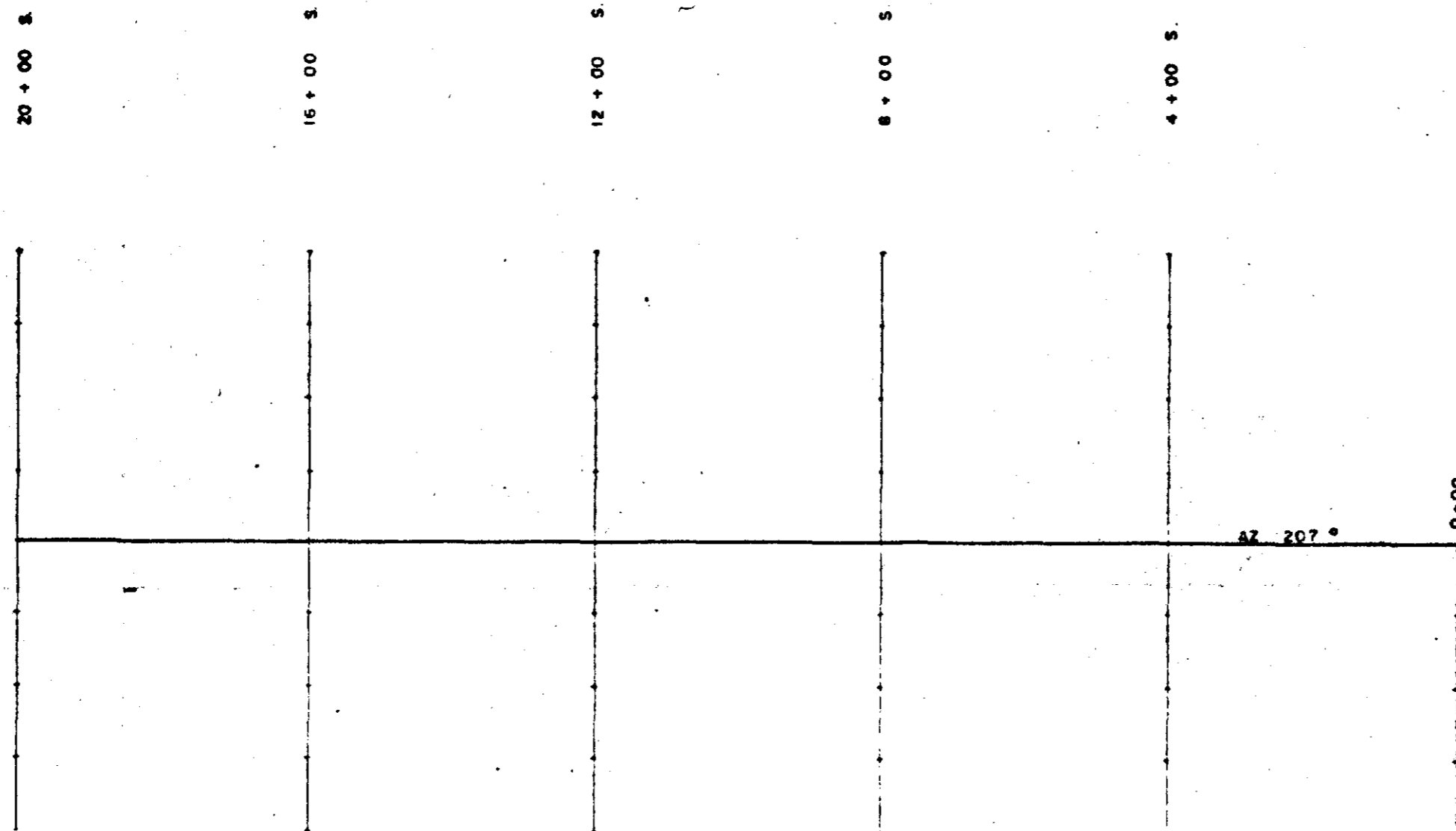




GLASGOW-0013 94

ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT  
 BLOCK "C"  
 ANOMALY - 13  
 DERRY TWP  
 MAGNETOMETER SURVEY



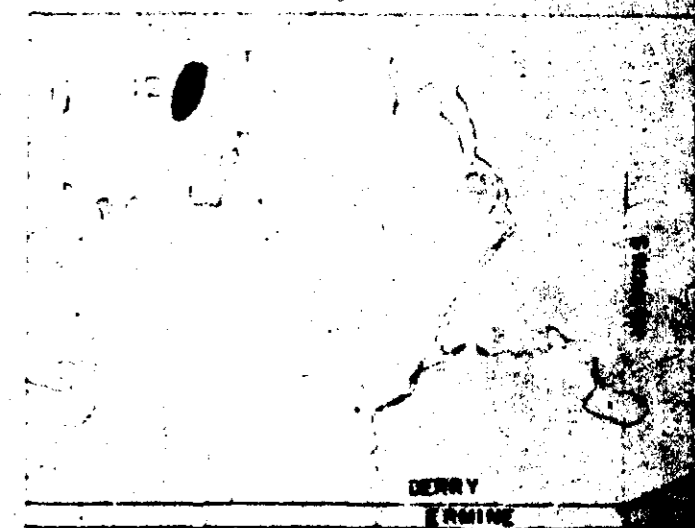


PINE PORTAGE LAKE

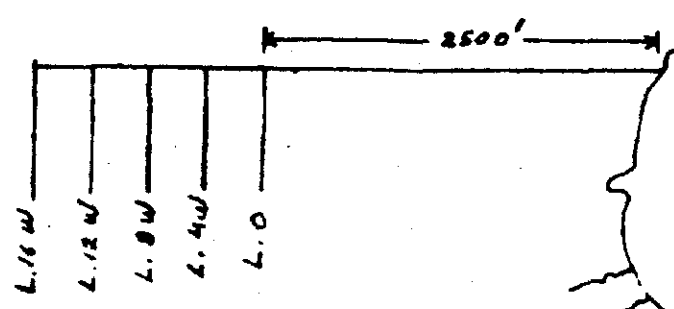
GLASGOW-0013 95

**LEGEND**  
 M<sup>c</sup>.PHAR R. E. M.  
 1000 CPS    5000 CPS  
 ——— 1000 C.P.S.  
 - - - - 5000 C.P.S.  
 ● CONDUCTOR

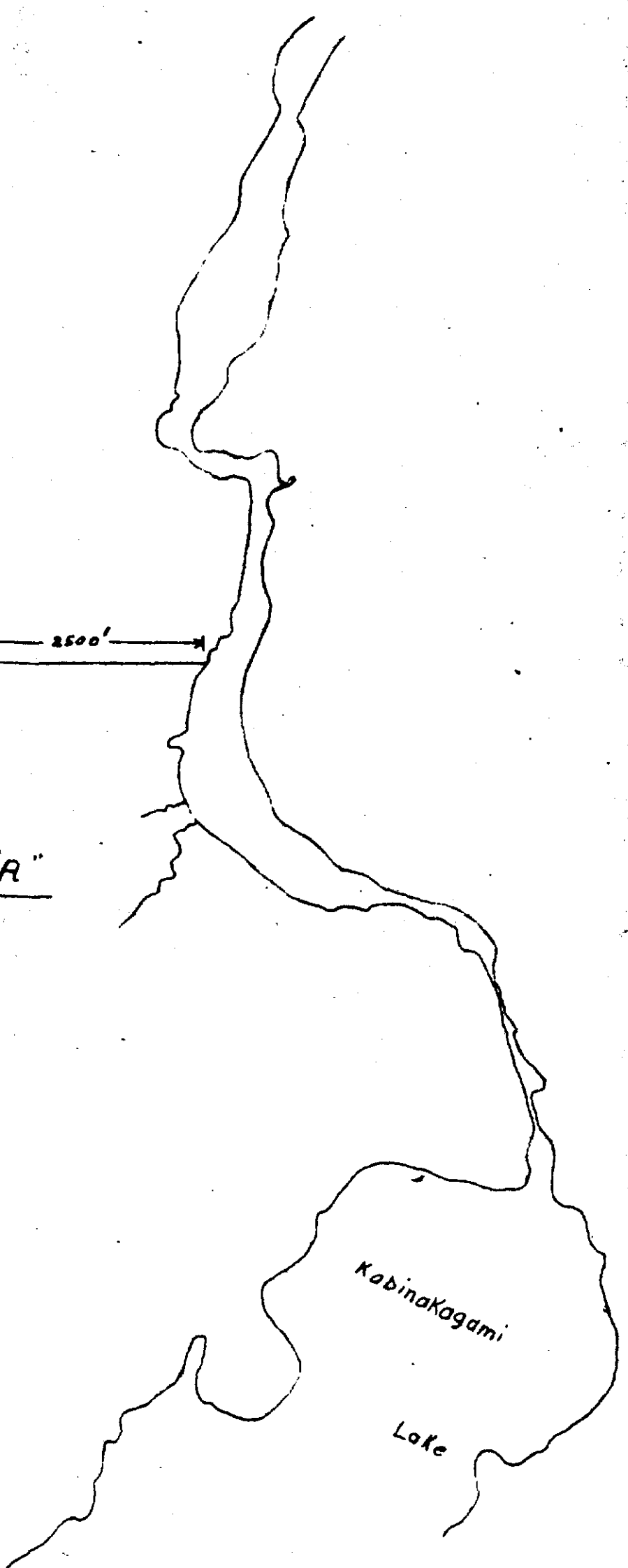
ALGOMA ORE PROPERTIES LIMITED  
 EXPLORATION DEPARTMENT  
**BLOCK "C"**  
 ANOMALY - 12  
 DERRY TWP  
 ELECTROMAGNETIC SURVEY  
 SCALE 1" = 200'    JUNE 1958



42G12NE0002 0013 GLASGOW

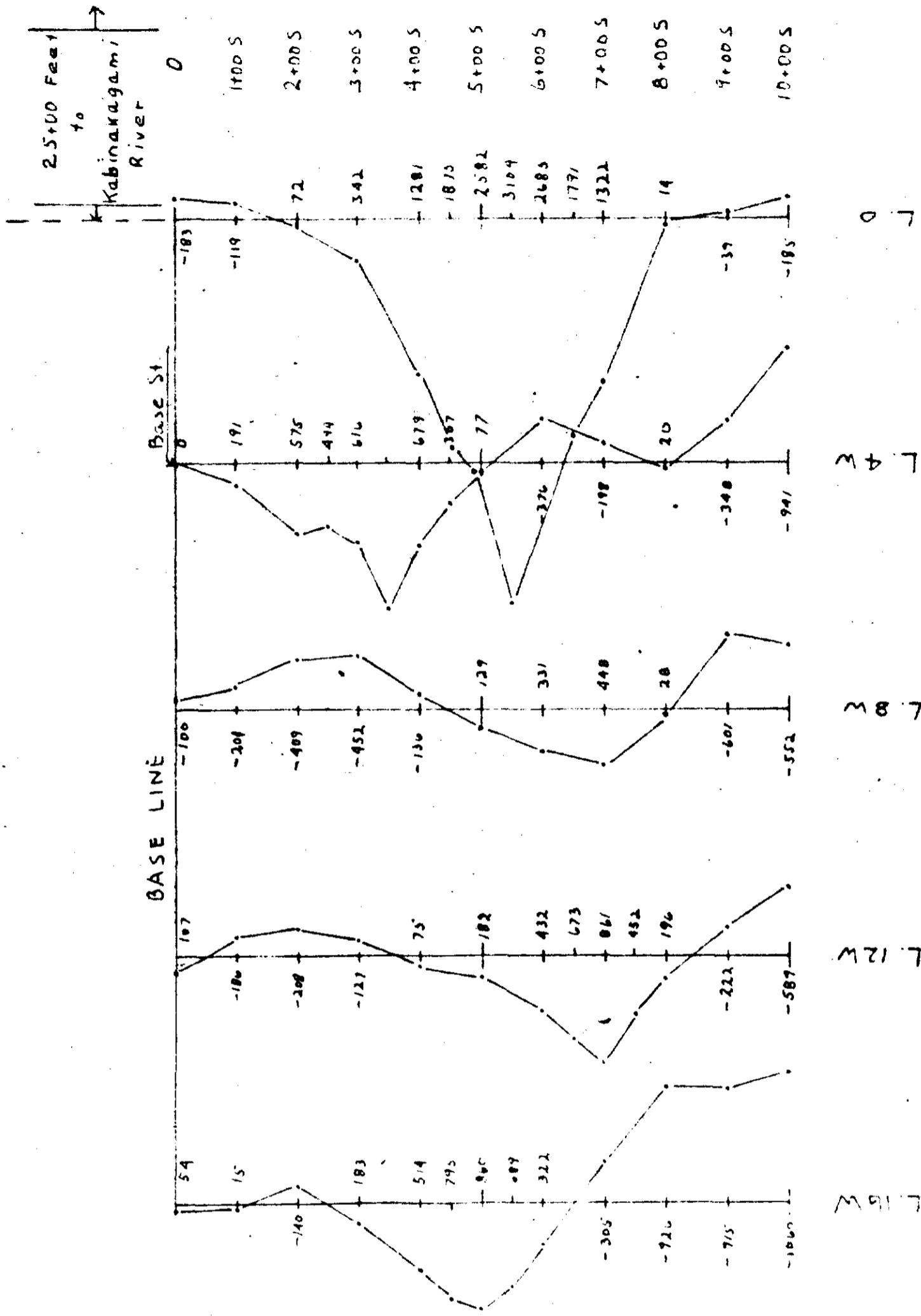


Grid "A"



HAROLD O SEIGEL & ASSOCIATES, LIMITED	
PROJECT: FRANC R. JOUBIN & ASSOCIATES LTD.	
SUBJECT: Anomaly A in Derry Twp.	
SURVEY: LOCATION	
<u>Scales</u>	<u>Legend</u>
1" = 1320'	
WORK BY: G.T.B.H.L. DATE BY: G.T. DATE 30-6-63	





North Arrow

HAROLD O. SEIGEL & ASSOCIATES, LIMITED  
 PROJECT Franc R Joslin and Associates  
 SUBJECT Anomaly A in Derry Twp.  
 SURVEY Magnetometer

Scales:  
 1" = 200'  
 1" = 1000'

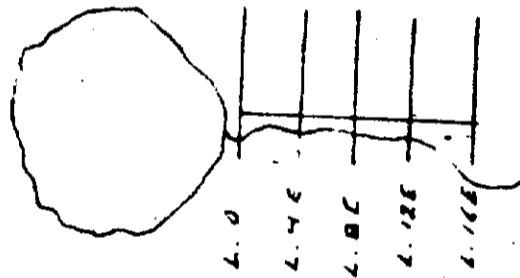
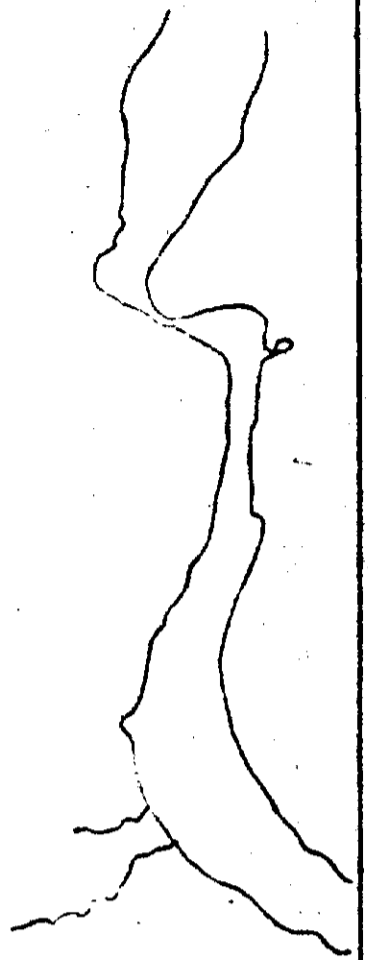
Legend:



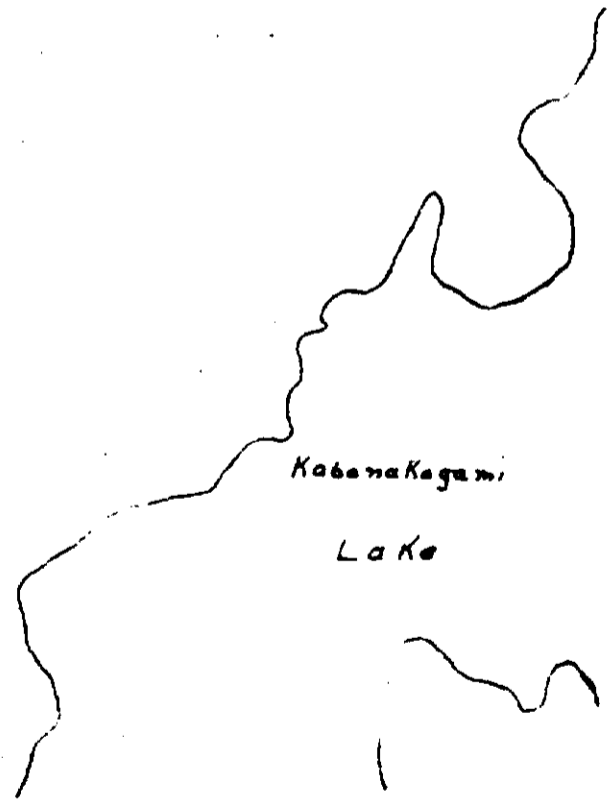
42612NE0002 0013 GLASGOW





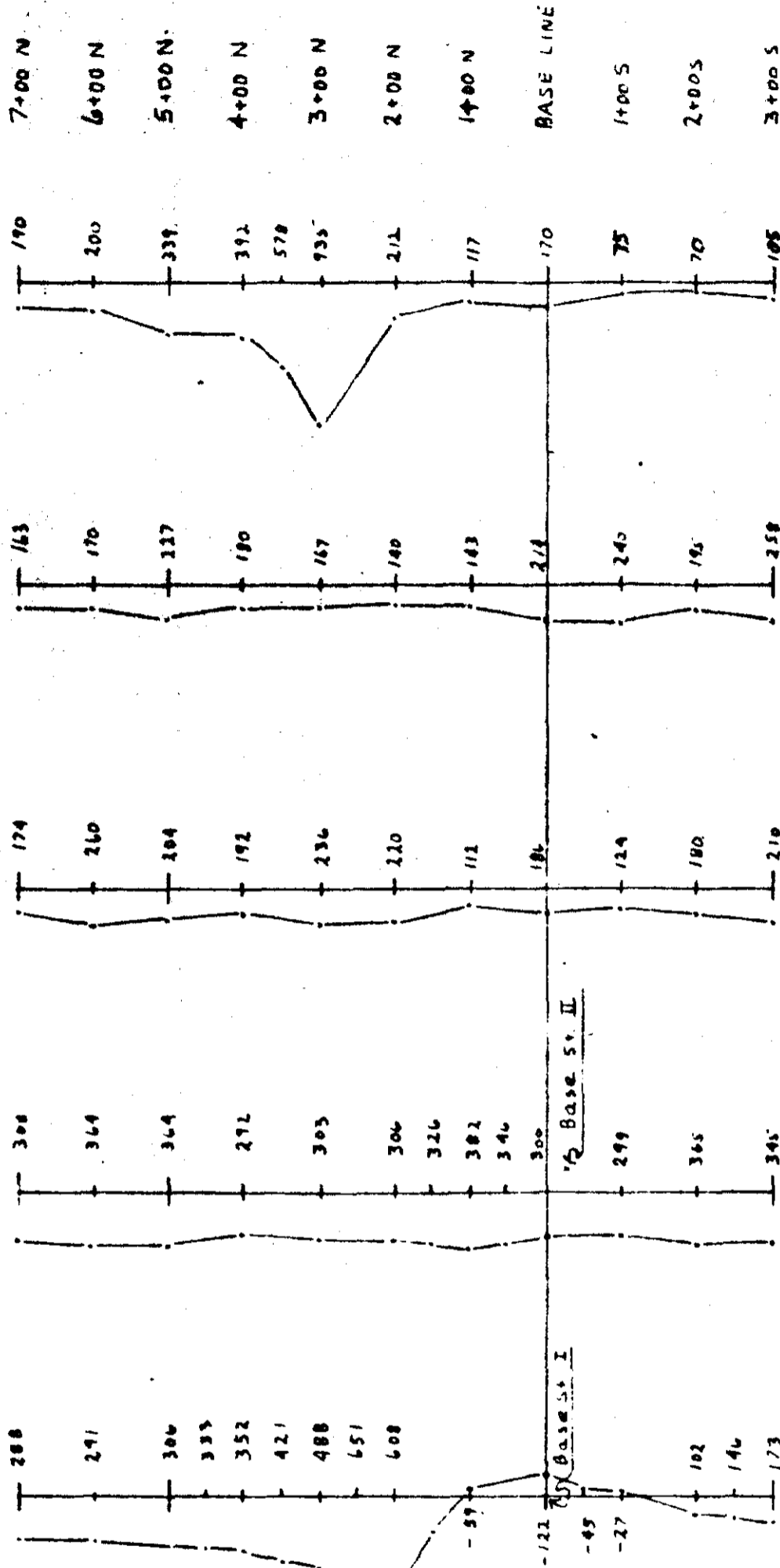
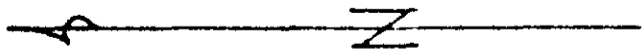


Grid B



HAROLD O. SEIGEL & ASSOCIATES, LIMITED		
PROJECT: FRANC R. JOUBIN ASSOCIATES LTD.		
SUBJECT: Anomaly B in Derry Twp.		
SURVEY: LOCATION		
Scales:		Legend:
1" = 1320'		
WORK BY: G.T. & H.L.	PLLOT BY: G.T.	DATE: 30-6-68

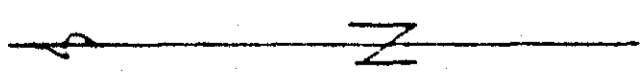
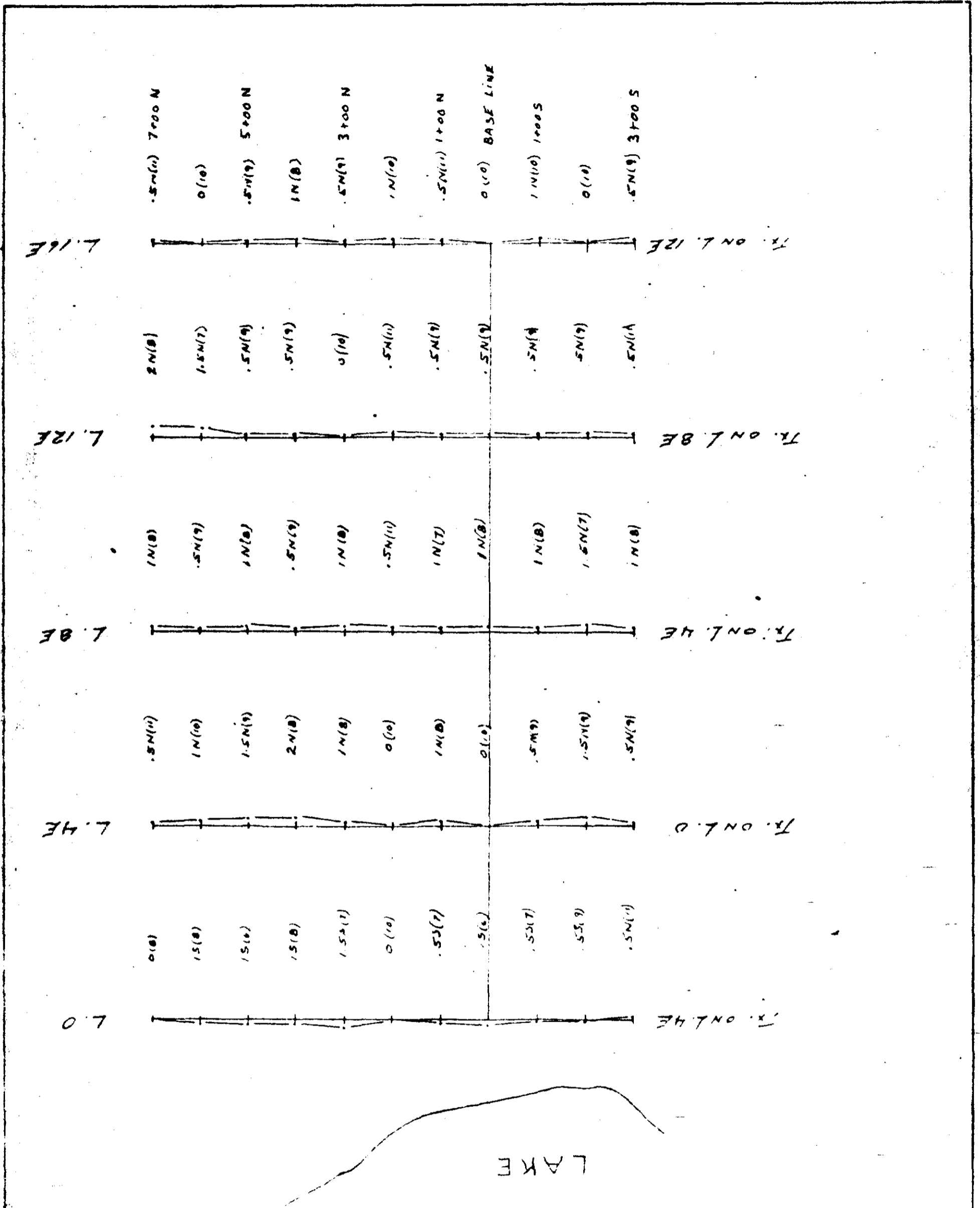




LAKE

HAROLD O. SEIGEL & ASSOCIATES, LIMITED		
PROJECT Franc R. Joubin and Associates		
SUBJECT Anomaly B in Derry Twp		
SURVEY Magnetometer		
Scales:		Legend:
1" = 200'		
1" = 1000γ		
WORK BY: H.O.L.	PLOT BY: H.O.L.	DATE June 30 1963



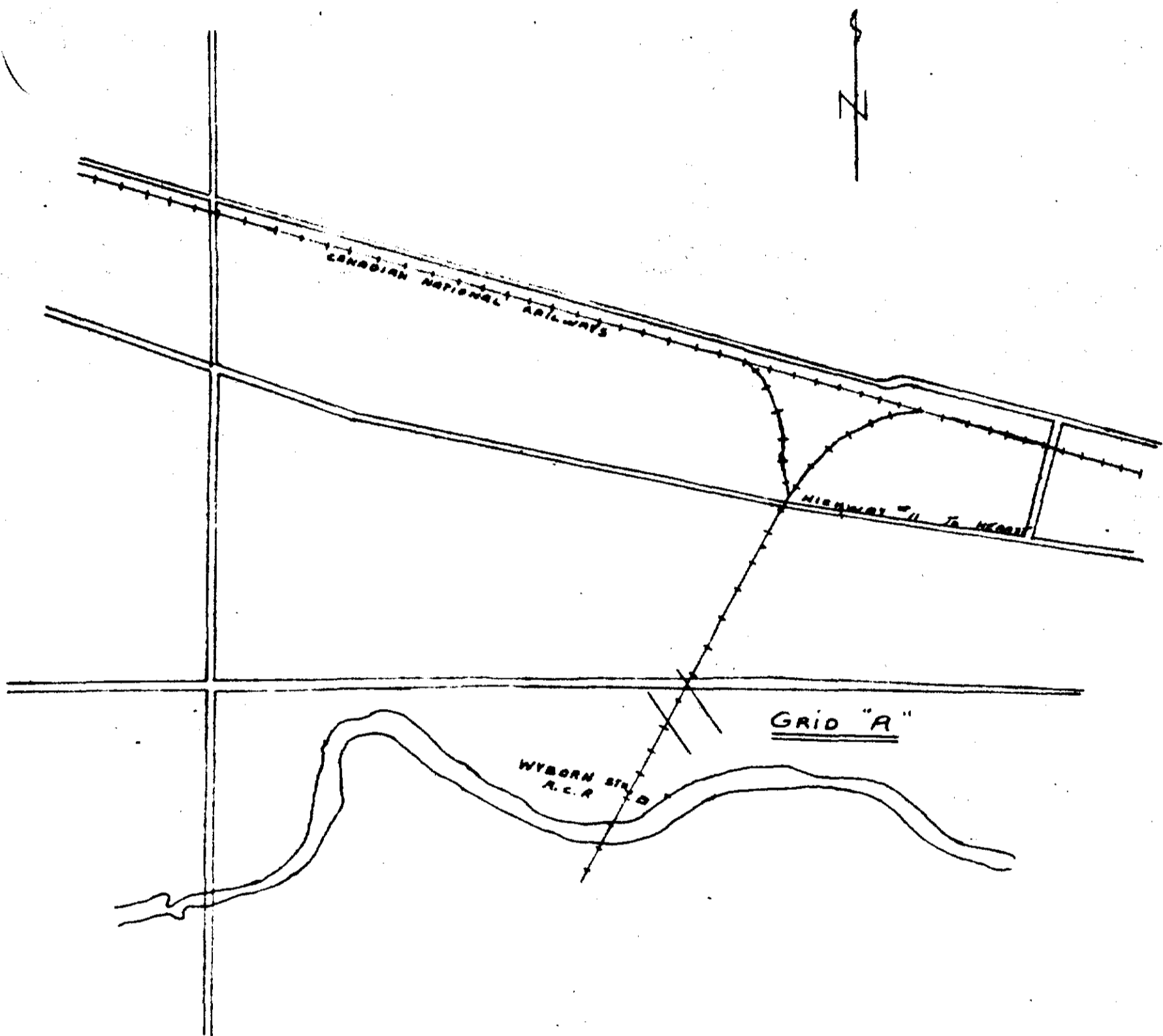


HAROLD O SEIGEL & ASSOCIATES, LIMITED  
 PROJECT: FRANC R. JOUBIN & ASSOCIATES LTD.  
 SUBJECT: Anomaly B in Derry Twp.  
 SURVEY: E.M.

**Scales:**  
 1" = 200'  
 1" = 20'

**Legend:**  
 PARALLEL LINE RECC. ———  
 FIELD TRANSMITTER X---X  
 TRANSMITTER LOCATION Δ  
 CONVENTION: EAST TILTS ON NORTH SIDE OF LINES.





GLASGOW-0013 102

HAROLD O. SEIGEL & ASSOCIATES, LIMITED

PROJECT: FRANC R. JOUBIN & ASSOCIATES LTD.

SUBJECT GRID "A" in WAY TWP.

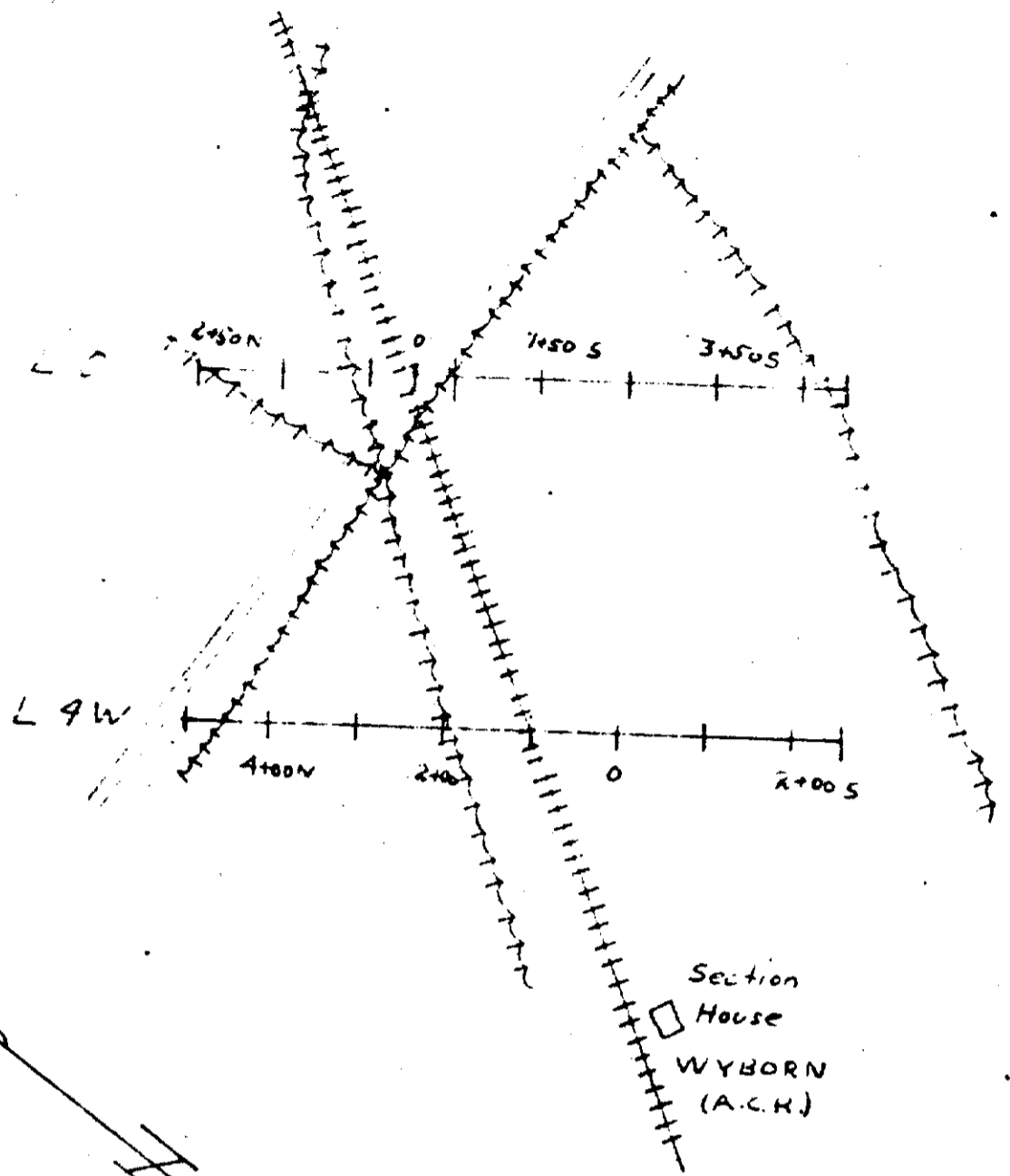
SURVEY LOCATION

Scales:  
1" = 1320'

Legend:

WORK BY G.T. PLOT BY G.T. DATE 1-6-69





GLASGOW - 0013 103

Legend

- // - Road
- - Rail Road (A.C.R.)
- - Hydr. Power Tr. Line

From A. Jordan and 193500

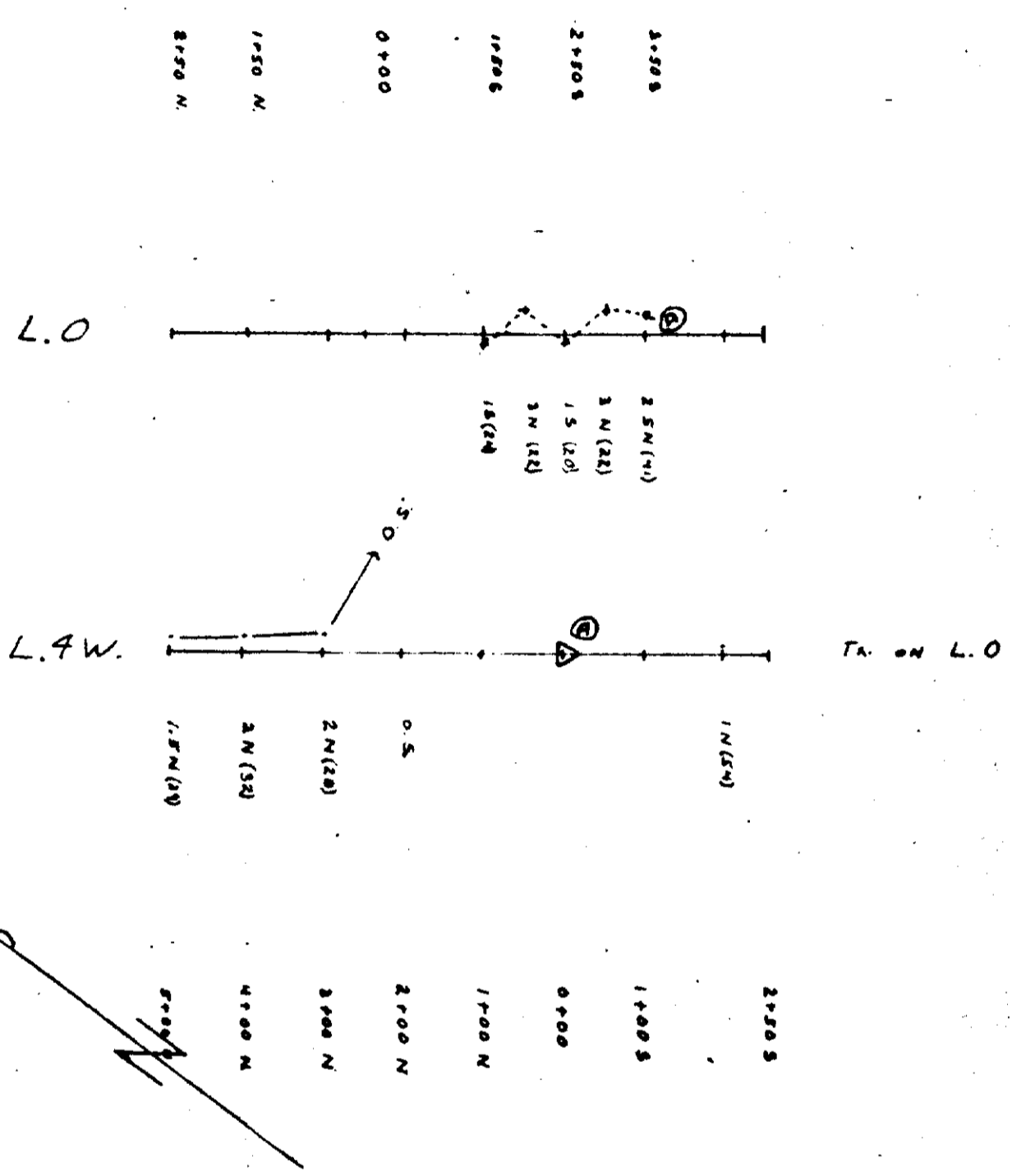
PLAN of ANOMALY A

WAY TWP.

Scale 1" = 200'





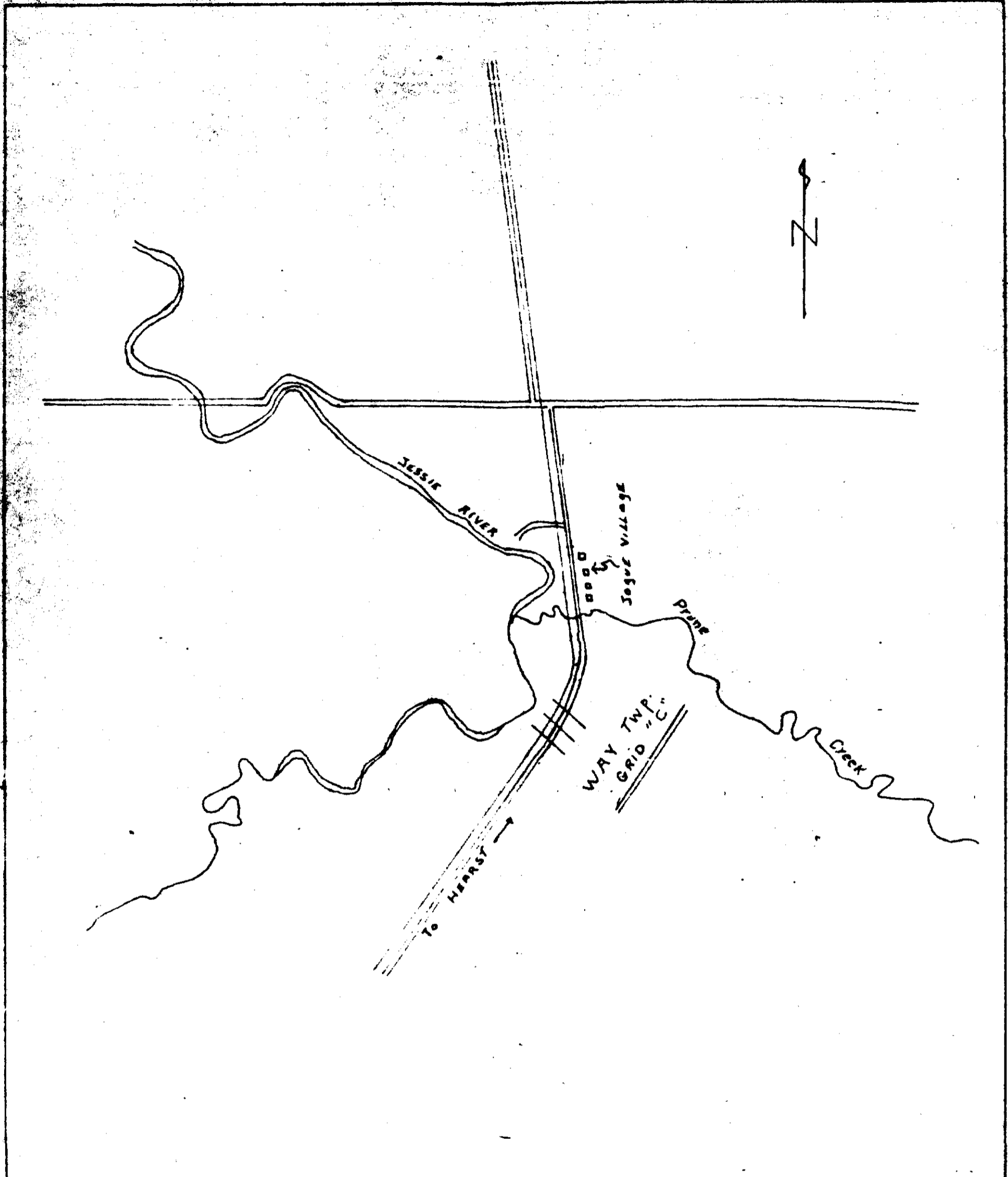


GLASGOW-0013 104

HAROLD O. SEIGEL & ASSOCIATES, LIMITED		
PROJECT FRANC R. JOUBIN & ASSOCIATES LTD		
SUBJECT GRID "A" IN WAY TWP.		
SURVEY E.M.		
<u>Scales:</u>		<u>Legend:</u>
1" = 200'		PARALLEL LINE RECLE. - - - -
1" = 20"		FIXED TRANSMITTER X - - - X
	ELECTROMAGNETIC TRANSMITTER LOCATION	△
	CONVENTION: EAST TITLS ON NORTH SIDE OF LINES	
WORK BY: G.T.	PLOT BY: G.T.	DATE: 1-6-63





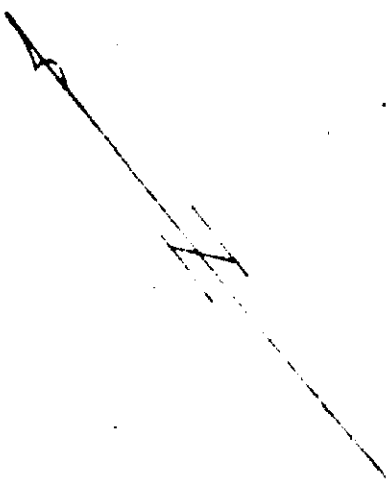
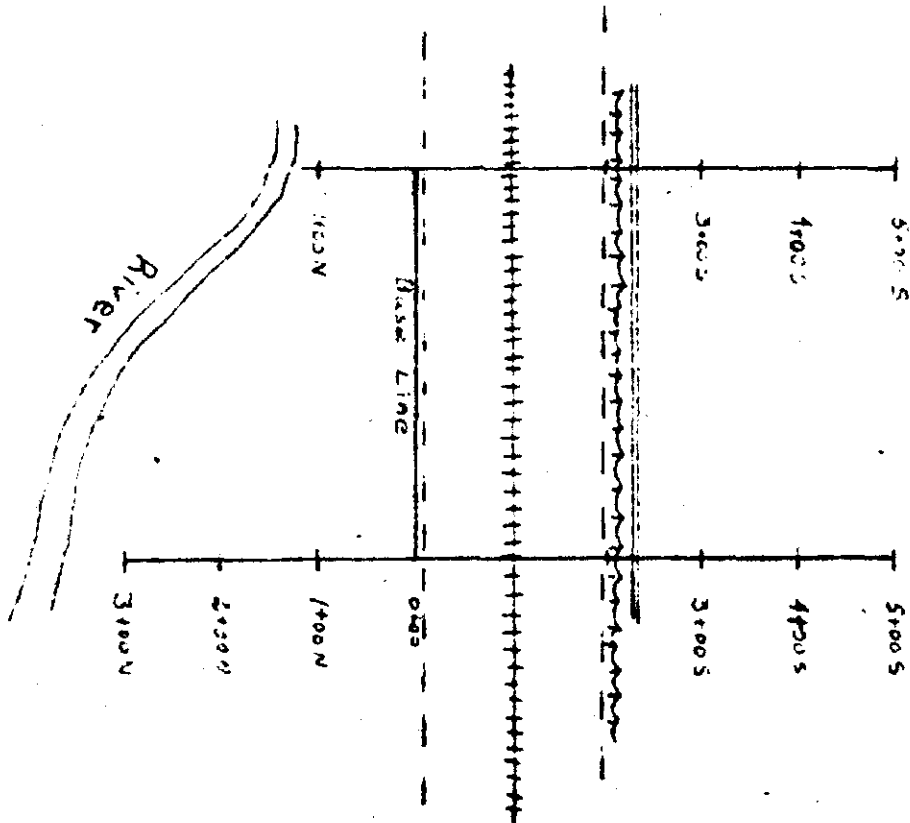


GLASGOW-0013 106

HAROLD O. SEIGEL & ASSOCIATES, LIMITED		
PROJECT: FRANC A. JOUBIN & ASSOCIATES LTD		
SUBJECT: GRID "C" IN WAY TWP.		
SURVEY LOCATION		
Scale:		Legend:
1" = 1320'		
WORK BY: G.T.	PLOT BY: G.T.	DATE: 2-6-63



42612NE0002 0013 GLASGOW



GLASGOW-0013 107

Franc. R. Joubin and Assoc

PLAN of ANOMALY C.

WAY TWP.

Scale 1" = 200'

June 1963  
M.O.C.

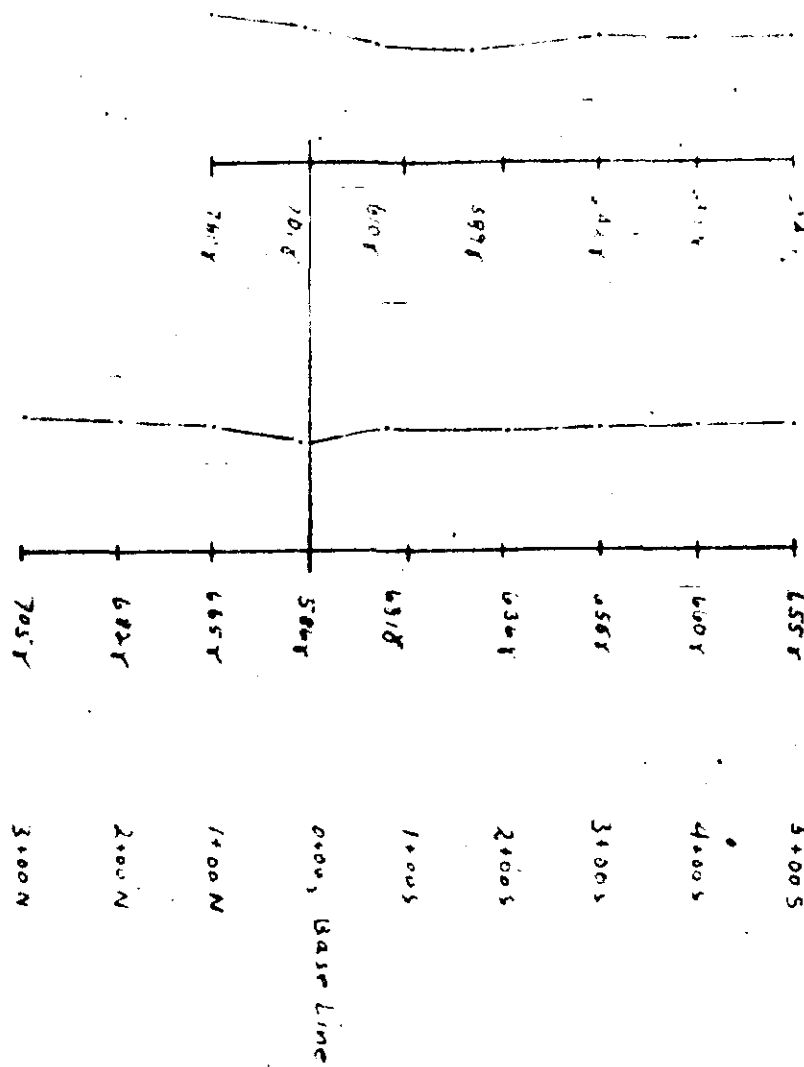
Legend

- Rail Road (A.C.R.)
- /// Gravel Road
- +++ Hydro Power Tr Line
- - - Fence







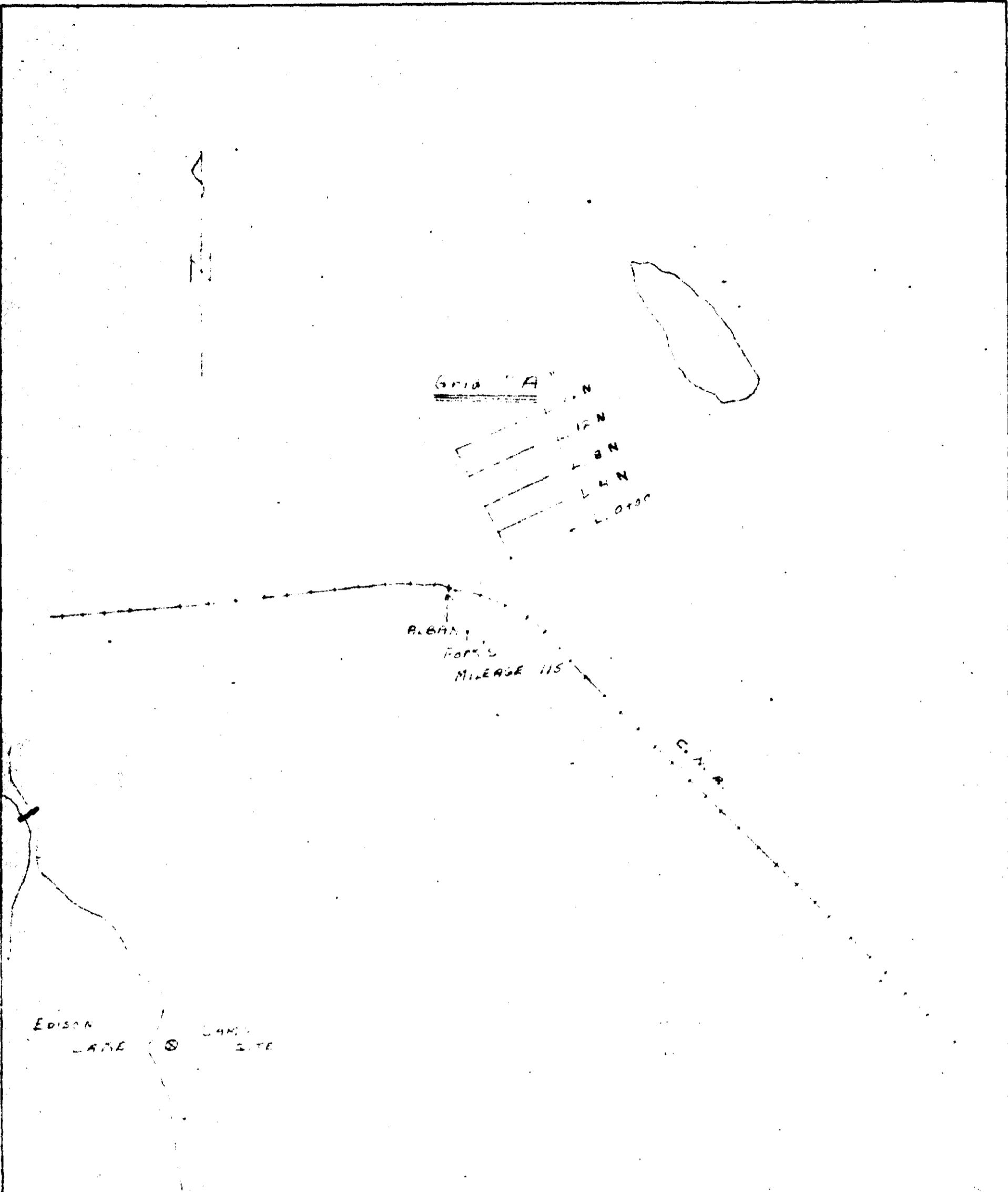


GLASGOW-0013 109

HAROLD O. SEIGEL & ASSOCIATES, LIMITED		
PROJECT: Franc. R. Jouoin and Assoc		
SUBJECT: Grid C in WAY Twp.		
SURVEY: Magnetometer		
<u>Scales:</u>		<u>Legend:</u>
1" = 200'		
1" = 1000'		
WORK BY: H.O.L.	PLOT BY: H.O.L.	DATE: June 2, 1962



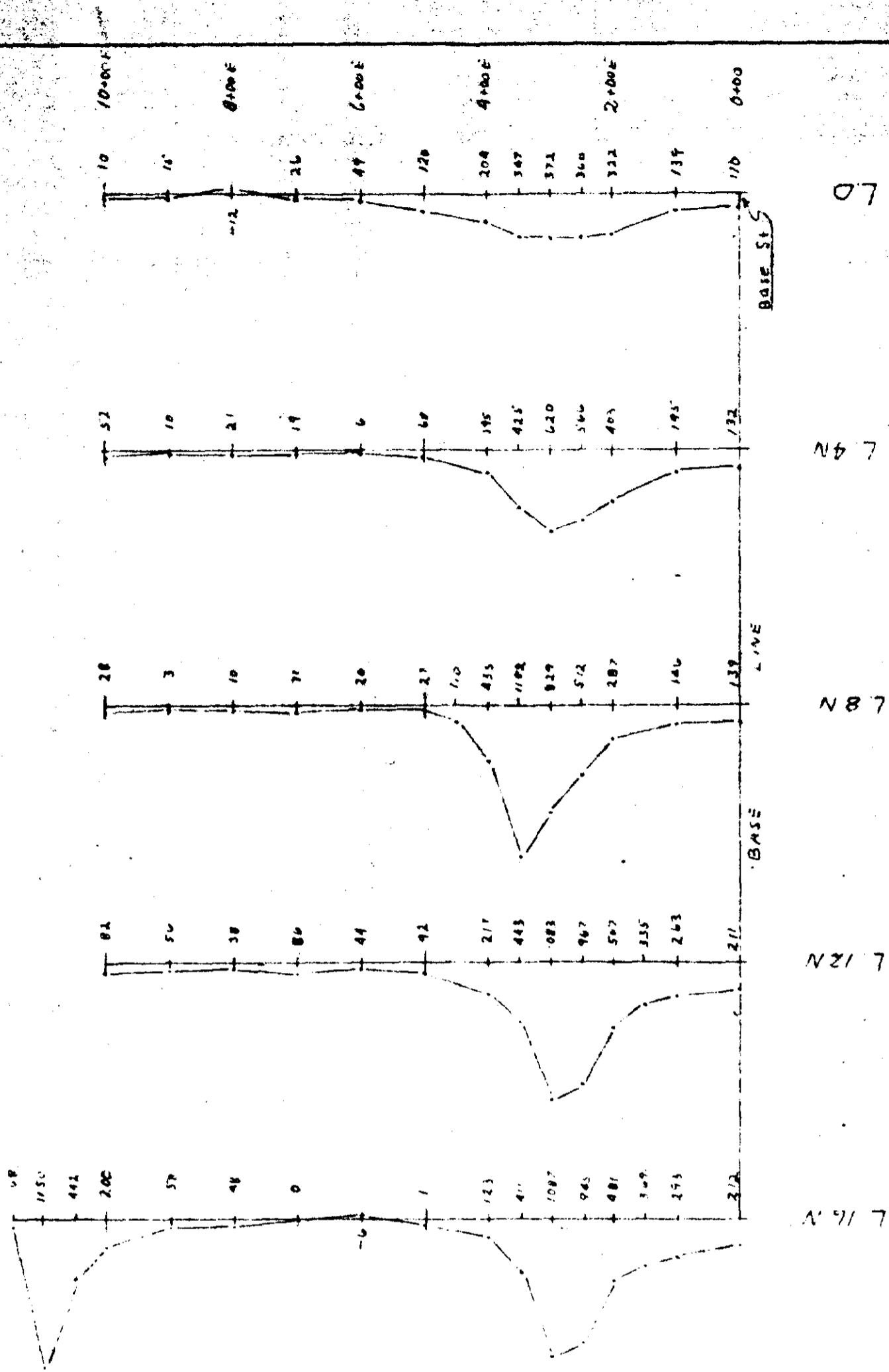
42G12NE0002 0013 GLASGOW



GLASGOW - 0013 110

HAROLD O. SEIGEL & ASSOCIATES, LIMITED	
PROJECT: <i>ALBANY FORM'S MILEAGE 115</i>	
SUBJECT: ANOMALY A in Franz Tuff	
SURVEY: LOCATION	
Scales:	Legend:
1" = 1320'	
DRAWN BY: <i>G. T.</i> DATE: <i>24-1-63</i>	

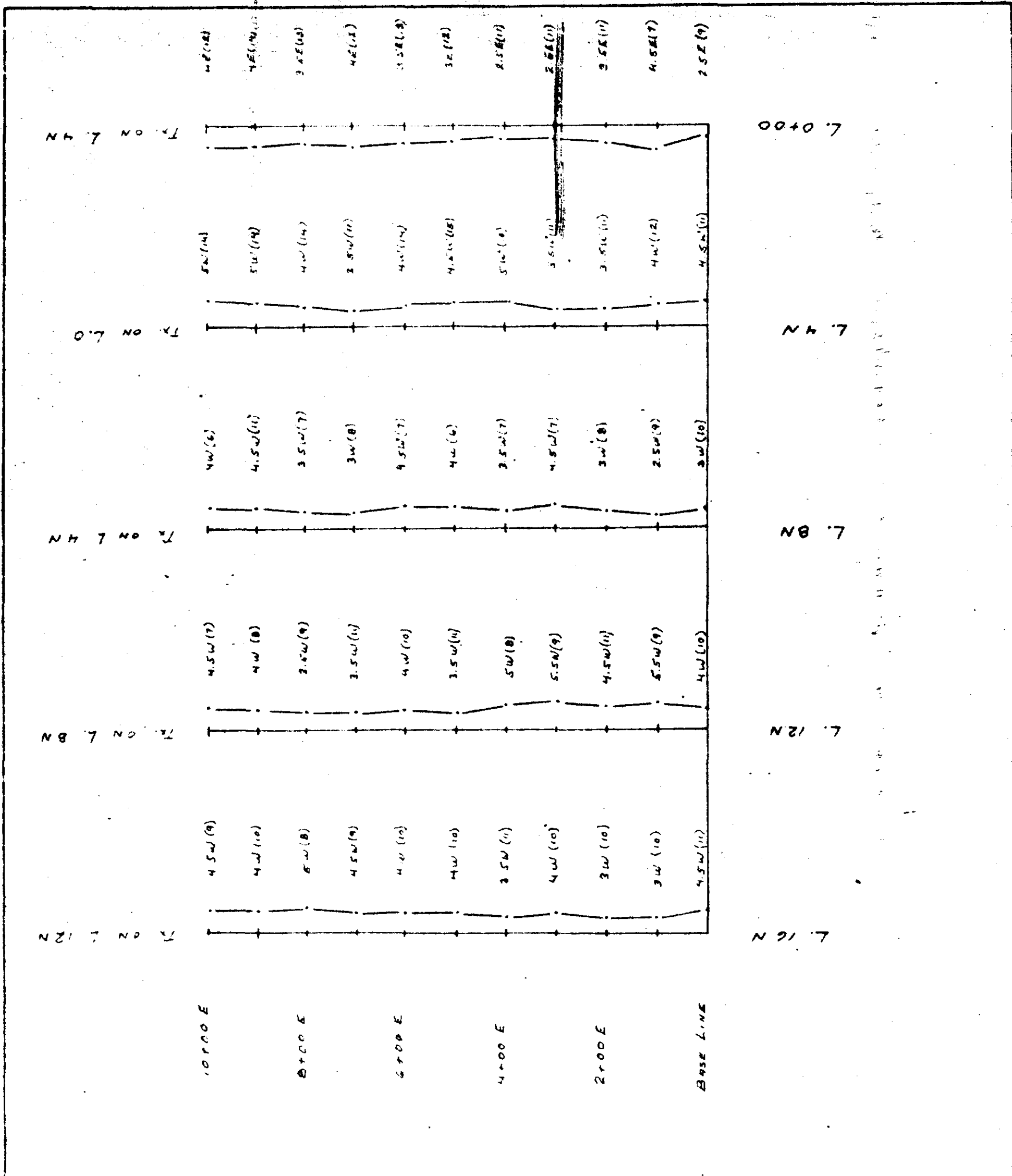




GLASGOW - 0013 III

HAROLD O. SEIGEL & ASSOCIATES, LIMITED		
PROJECT Franz R. Trobin and Associates		
SUBJECT ANOMALY A in Franz Twp		
SURVEY Magnetometer		
<u>Scales:</u>	<u>Legend:</u>	
1" = 200'		
1" = 1000'		
WORK BY H.O.L.	PLC'T BY H.O.L.	DATE June 22, 1963



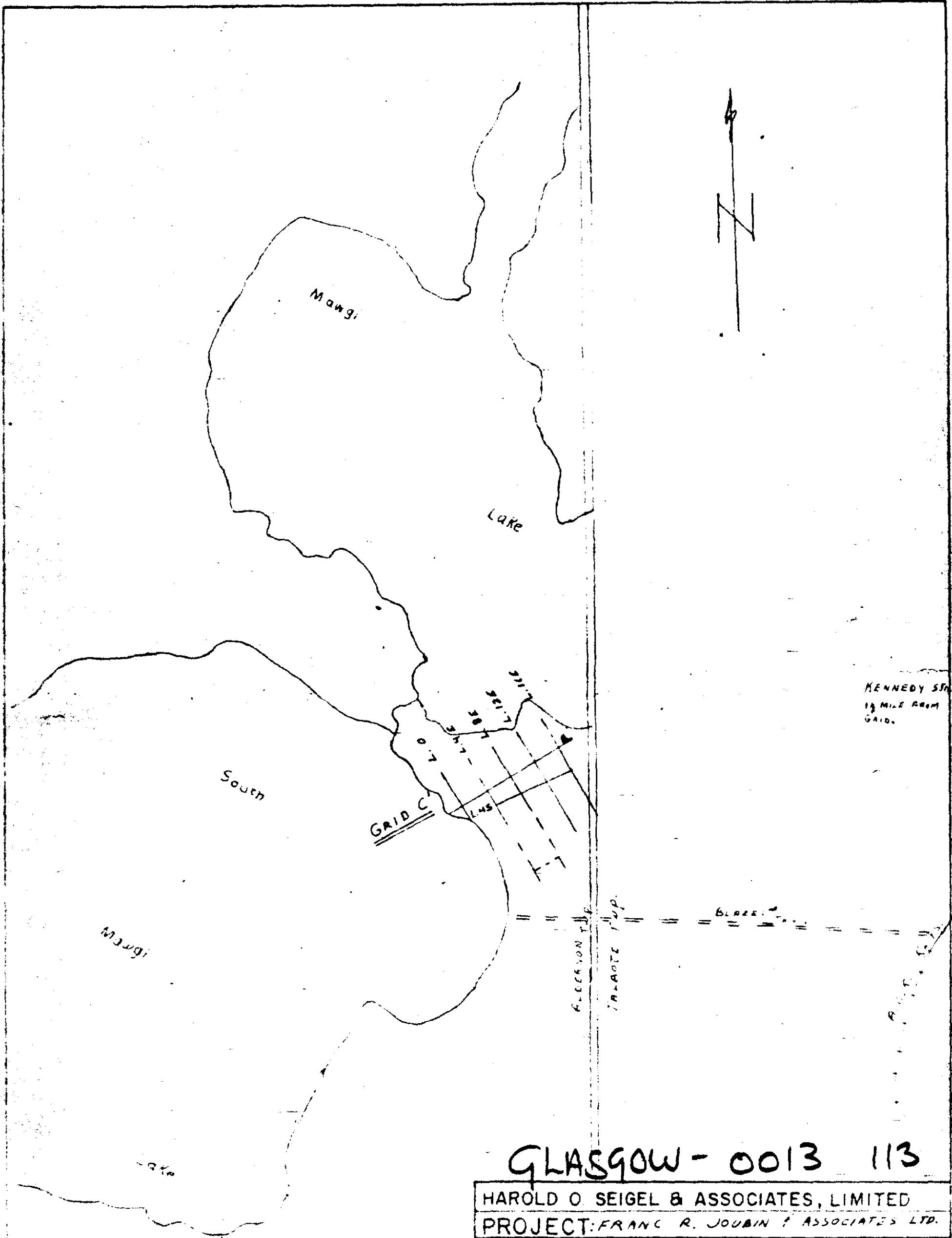


GLASGOW-0013 112

HAROLD O. SEIGEL & ASSOCIATES, LIMITED		
PROJECT: FRANC R. JOUBIN & ASSOCIATES LTD.		
SUBJECT: ANOMALY A in Franz Twp.		
SURVEY: E.M.		
Scales:		Legend:
1" = 200'		PARALLEL LINE RECCE. ———
1" = 200"		FIXED TRANSMITTER X---X
		TRANSMITTER LOCATION Δ
		CONVENTION: NORTH TILTS ON EAST SIDE OF LINES.
WORK BY	G.T.	DATE 24-6-65
PLOT BY	G.T.	



42G12NE0002 0013 GLASGOW



GLASGOW - 0013 113

HAROLD O. SEIGEL & ASSOCIATES, LIMITED  
 PROJECT: FRANC R. JOUBIN & ASSOCIATES LTD.  
 SUBJECT: Anomaly - C' in Alderson Twp.  
 SURVEY: LOCATION

Scales:  
 1" = 1320'

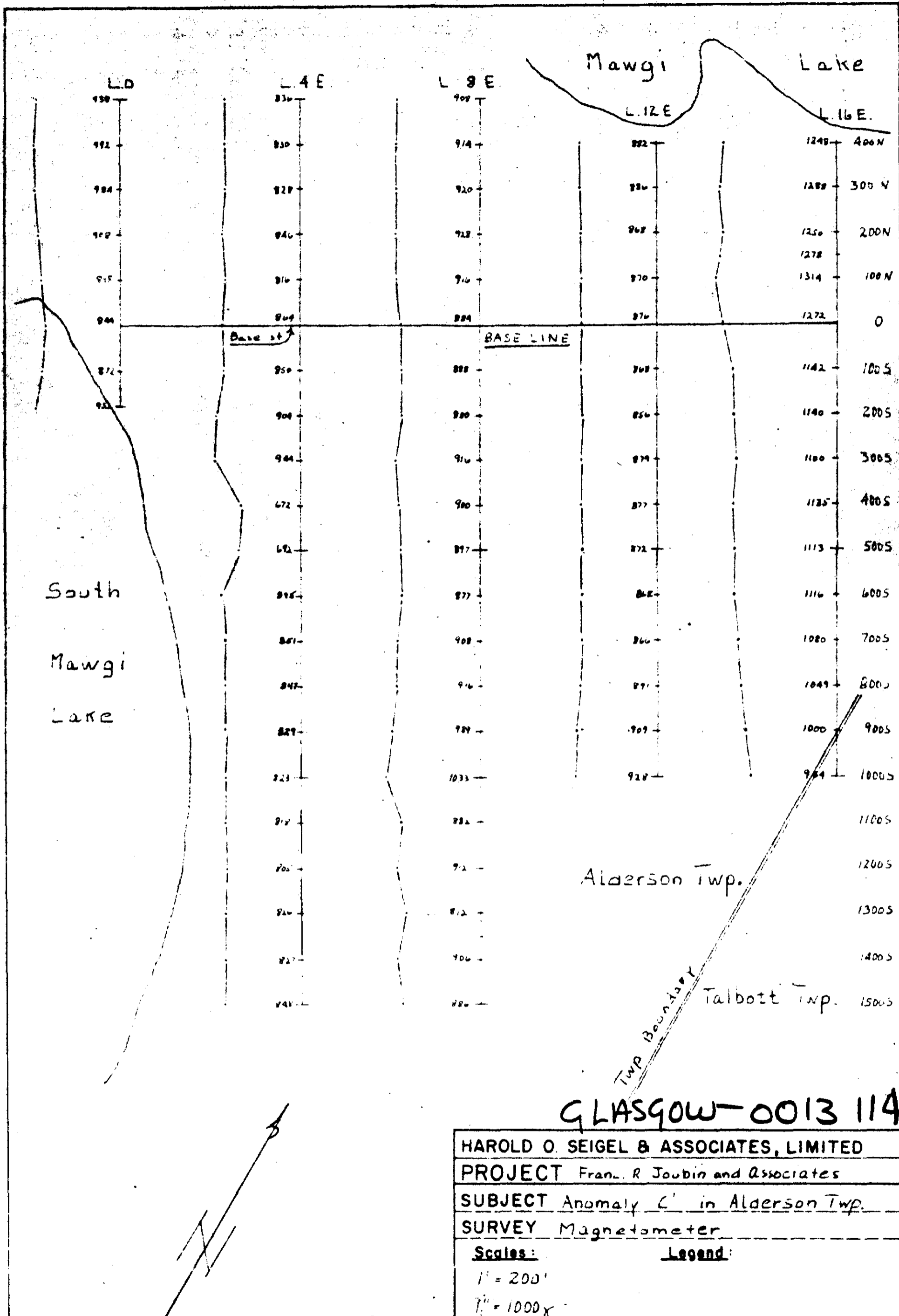
Legend:

WORK BY: G. T. | PLOT BY: G. T. | DATE: 13-6-63



42G12NE0002 0013 GLASGOW



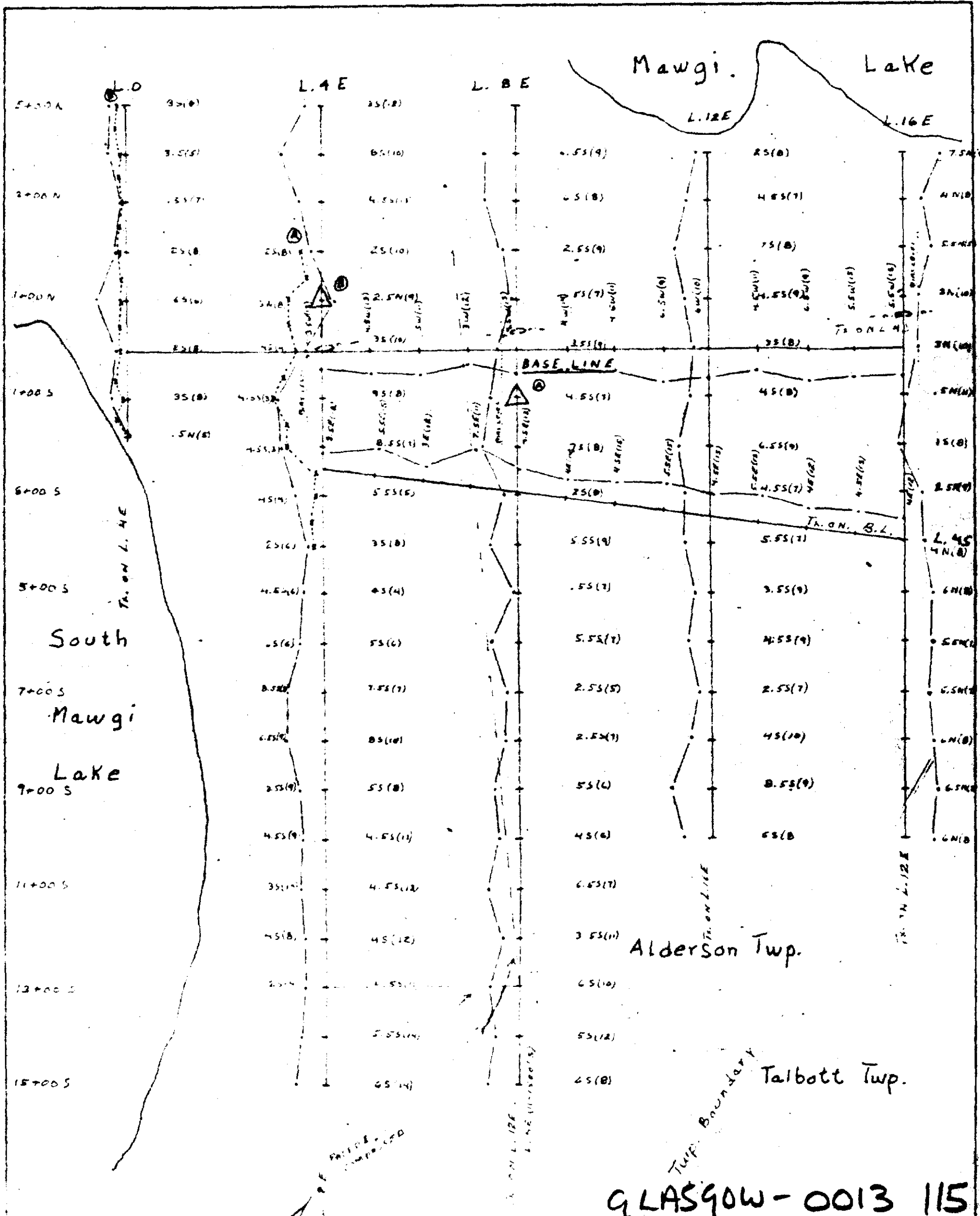


GLASGOW-0013 114

HAROLD O. SEIGEL & ASSOCIATES, LIMITED		
PROJECT <i>Franc. R. Joubin and Associates</i>		
SUBJECT <i>Anomaly C' in Alderson Twp.</i>		
SURVEY <i>Magnetometer</i>		
<u>Scales:</u>		<u>Legend:</u>
1" = 200'		
1" = 1000γ		
WORK BY H.O.L.	PLOT BY H.O.L.	DATE <i>June 12, 1962</i>



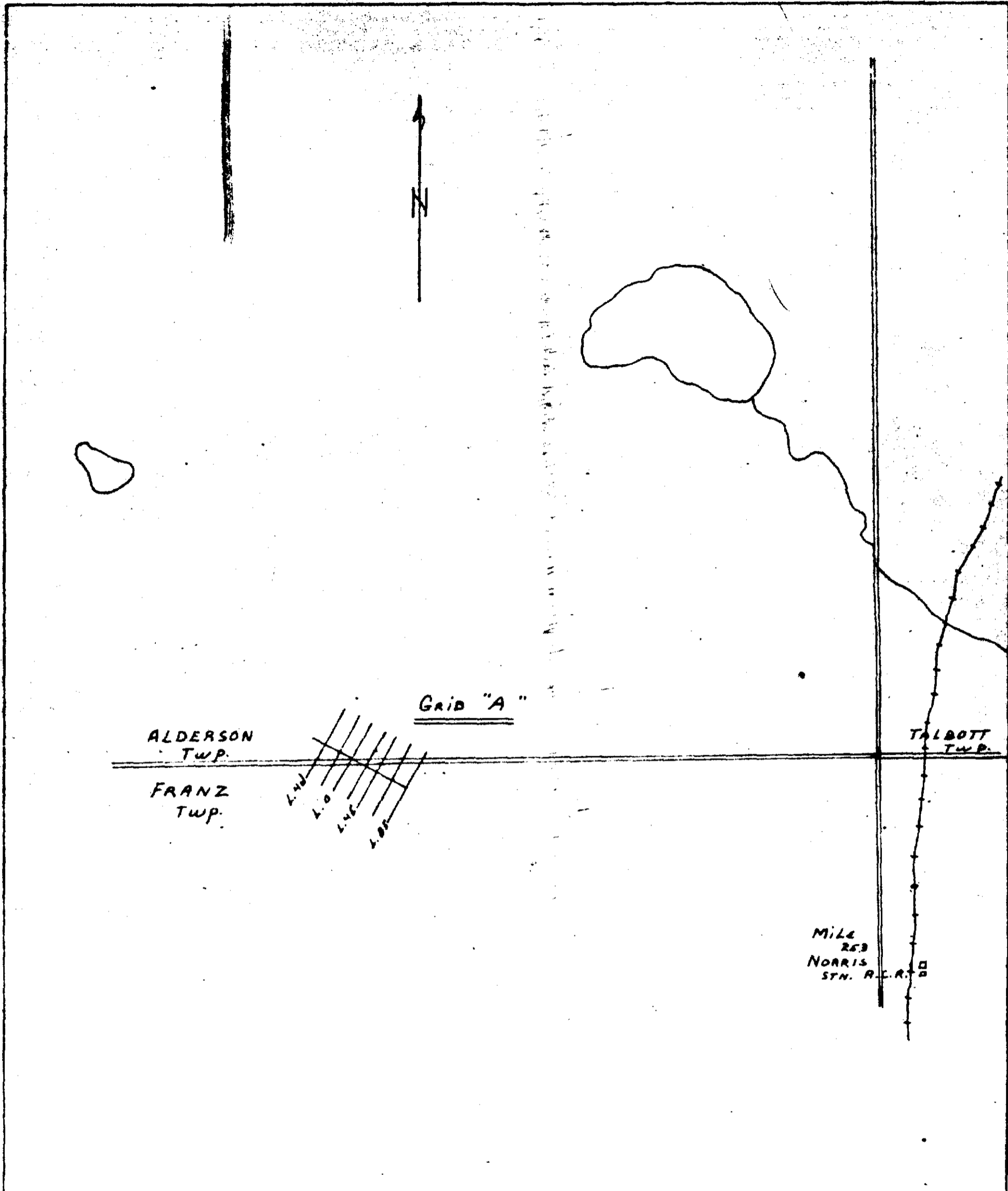
42G12NE0002 0013 GLASGOW



GLASGOW-0013 115

HAROLD O. SEIGEL & ASSOCIATES, LIMITED	
PROJECT: FRANC R. JOUBIN & ASSOCIATES LTD.	
SUBJECT: Anomaly 'C' in Alderson Twp.	
SURVEY : E.M.	
<b>Scales:</b>	<b>Legend:</b>
1" = 200'	PARALLEL LINE RECC. ———
1" = 20°	FIELD TRANSMITTER X
	TRANSMITTER LOCATION Δ
	CONVENTION: EAST FILLS ON NORTH SIDE OF LINES.
	T & S ANGLES ON WEST SIDE OF L. HE ARE FROM RECONNAISSANCE.
WORK BY G. T.	DATE 13-6-63

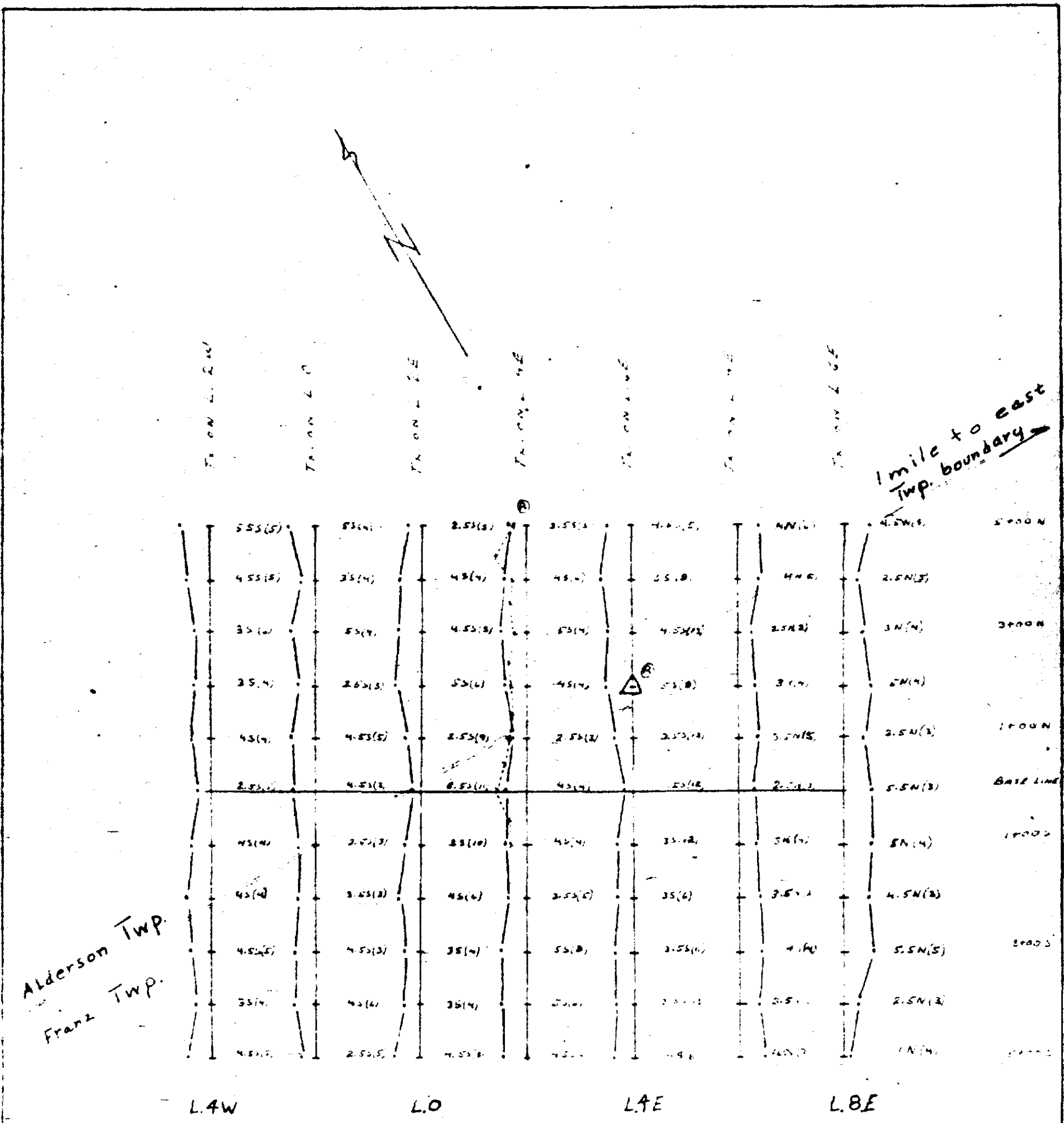




GLASGOW-0013 116

HAROLD O. SEIGEL & ASSOCIATES, LIMITED		
PROJECT: FRANC R. JOUBIN & ASSOCIATES LTD.		
SUBJECT: Anomaly A in Alderson Twp.		
SURVEY: LOCATION		
<u>Scales:</u>	<u>Legend:</u>	
1" = 1320'		
WORK BY: G.T.	PLOT BY: G.T.	DATE: 16-6-63





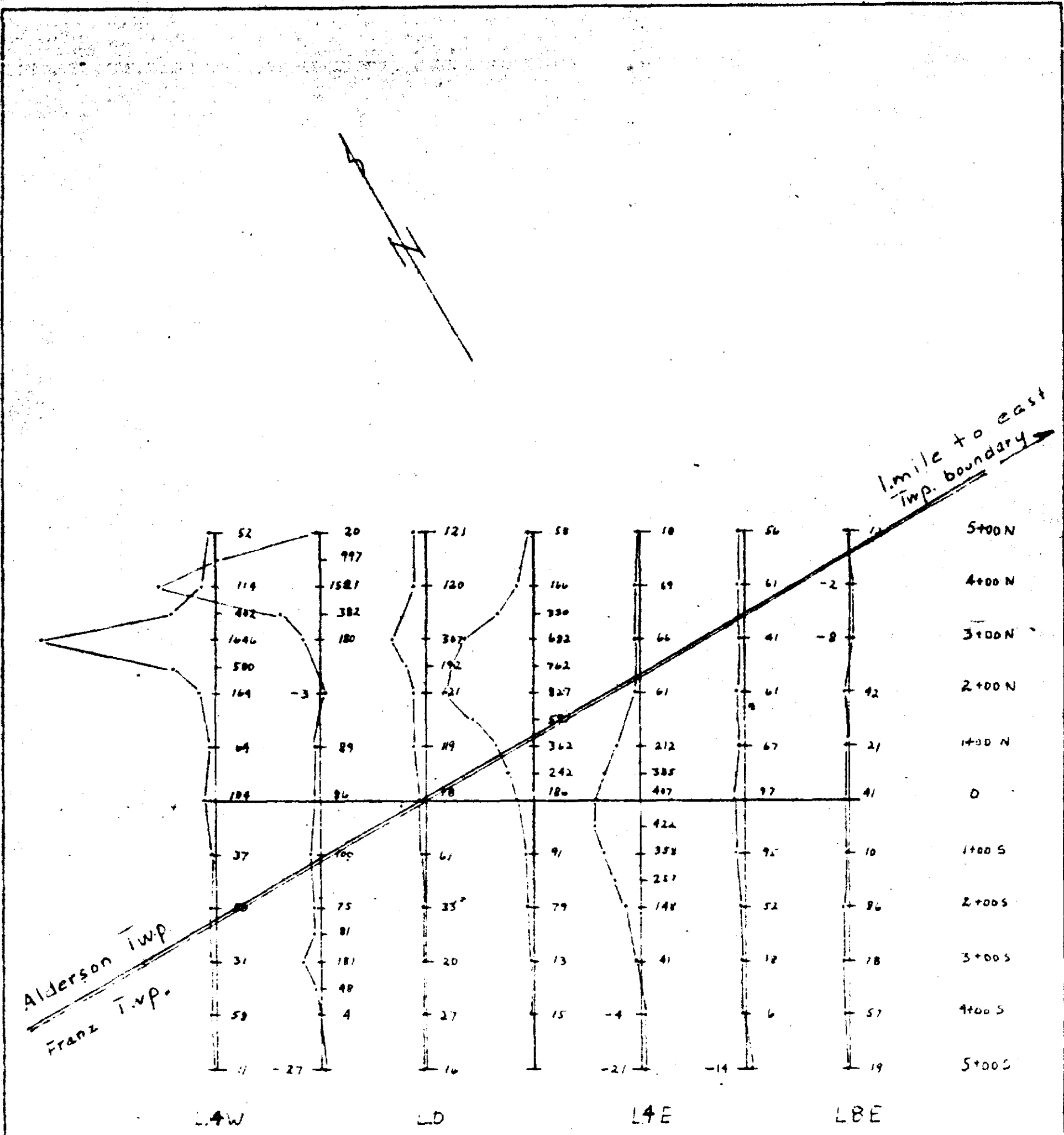
Alderson Twp.  
Franz Twp.

1 mile to east  
Twp. boundary

GLASGOW-0013 117

HAROLD O SEIGEL & ASSOCIATES, LIMITED		
PROJECT: FRANK R. JOUBIN & ASSOCIATES LTD.		
SUBJECT: Anomaly A - in Alderson Twp.		
SURVEY: E. M.		
<p><u>Scales:</u></p> <p>1" = 200'</p> <p>1" = 200'</p>	<p><u>Legend:</u></p> <p>PARALLEL LINE REC'D. ———</p> <p>FILED TRANSMITTER K---K</p> <p>TRANSMITTER LOCATION Δ</p> <p>CONVENTION: EAST TIES ON NORTH SIDE OF LINES.</p>	
WORK BY	G. T.	DATE 10-6-63



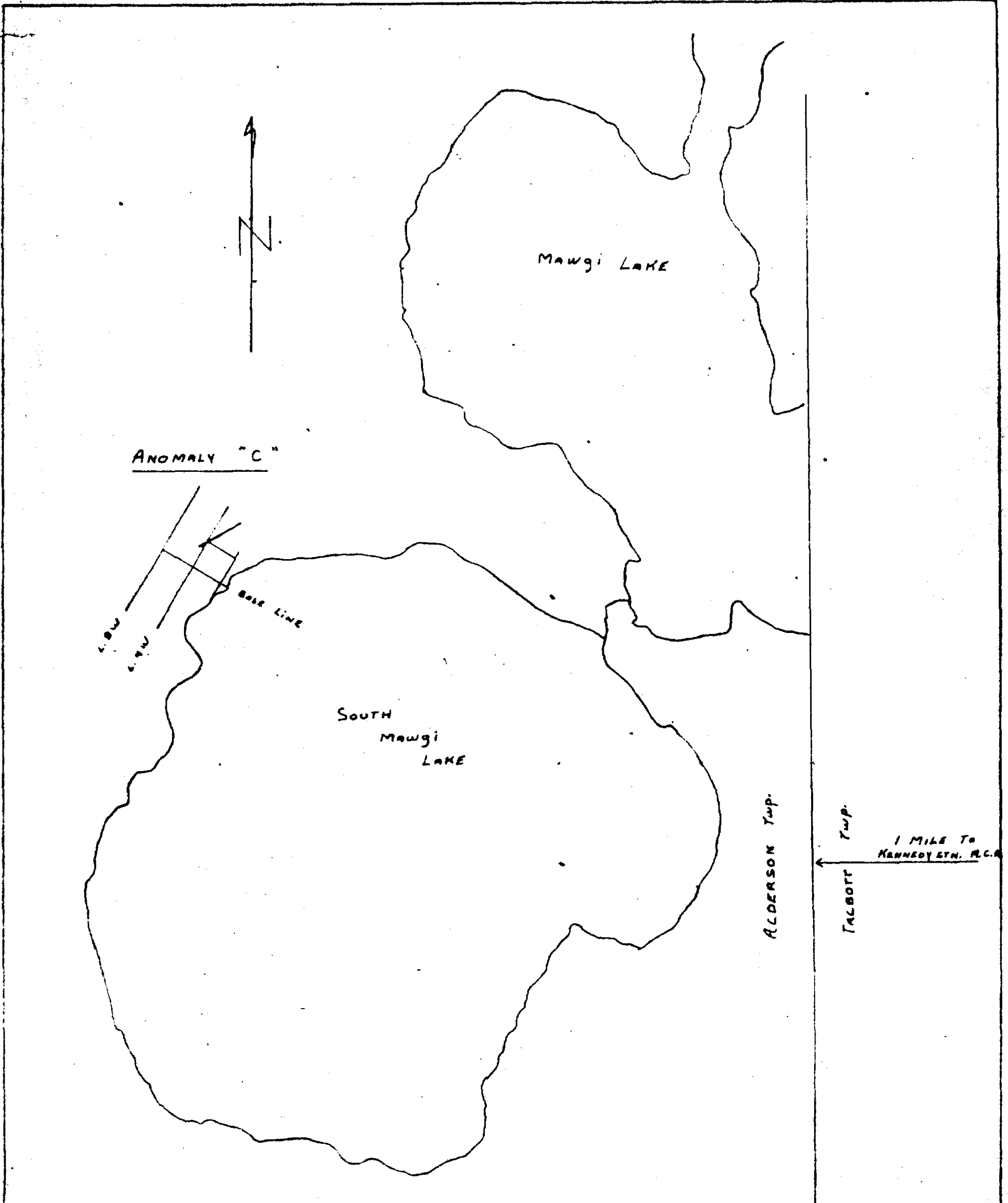


GLASGOW-0013 118

HAROLD O. SEIGEL & ASSOCIATES, LIMITED		
PROJECT <i>Franc R. Joubin and Associates</i>		
SUBJECT <i>Anomaly A in Alderson Twp</i>		
SURVEY <i>Magnetometer</i>		
<u>Scales:</u>		<u>Legend:</u>
1" = 200'		BASE LEVEL 300 GAMMAS REMOVED FROM OBSERVED VALUES.
1" = 1000γ		
WORK BY: <i>H.O.L.</i>	PLOT BY: <i>H.O.L.</i>	DATE: <i>JUNE 17, 1963</i>



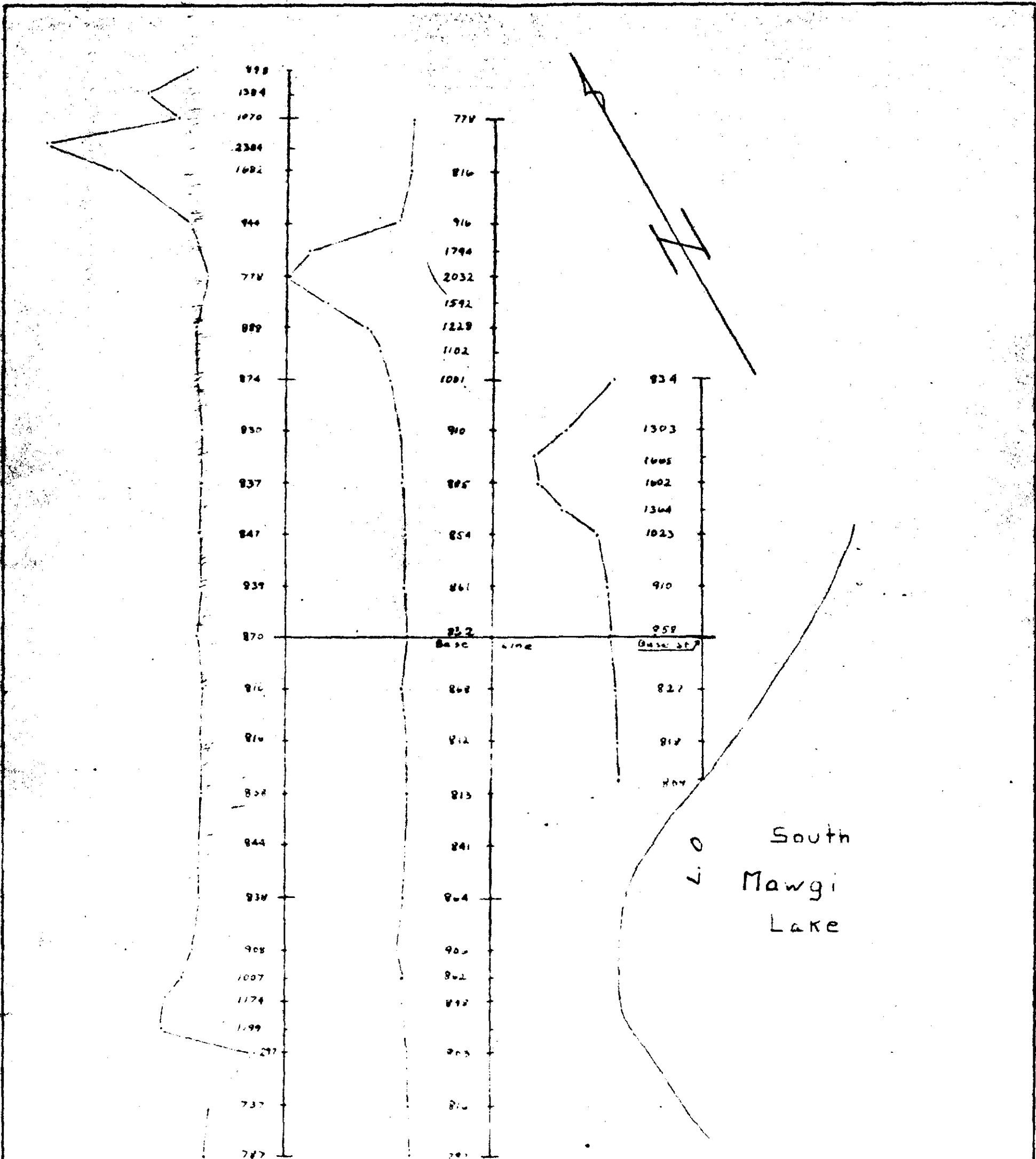




GLASGOW-0013 119

HAROLD O. SEIGEL & ASSOCIATES, LIMITED	
PROJECT: FRANC R. JOUBIN & ASSOCIATES LTD	
SUBJECT: ANOMALY "C" IN ALDERSON Twp.	
SURVEY: LOCATION	
<u>Scales:</u>	<u>Legend:</u>
1" = 1320'	
WORK BY G.T.	DATE 10-6-63





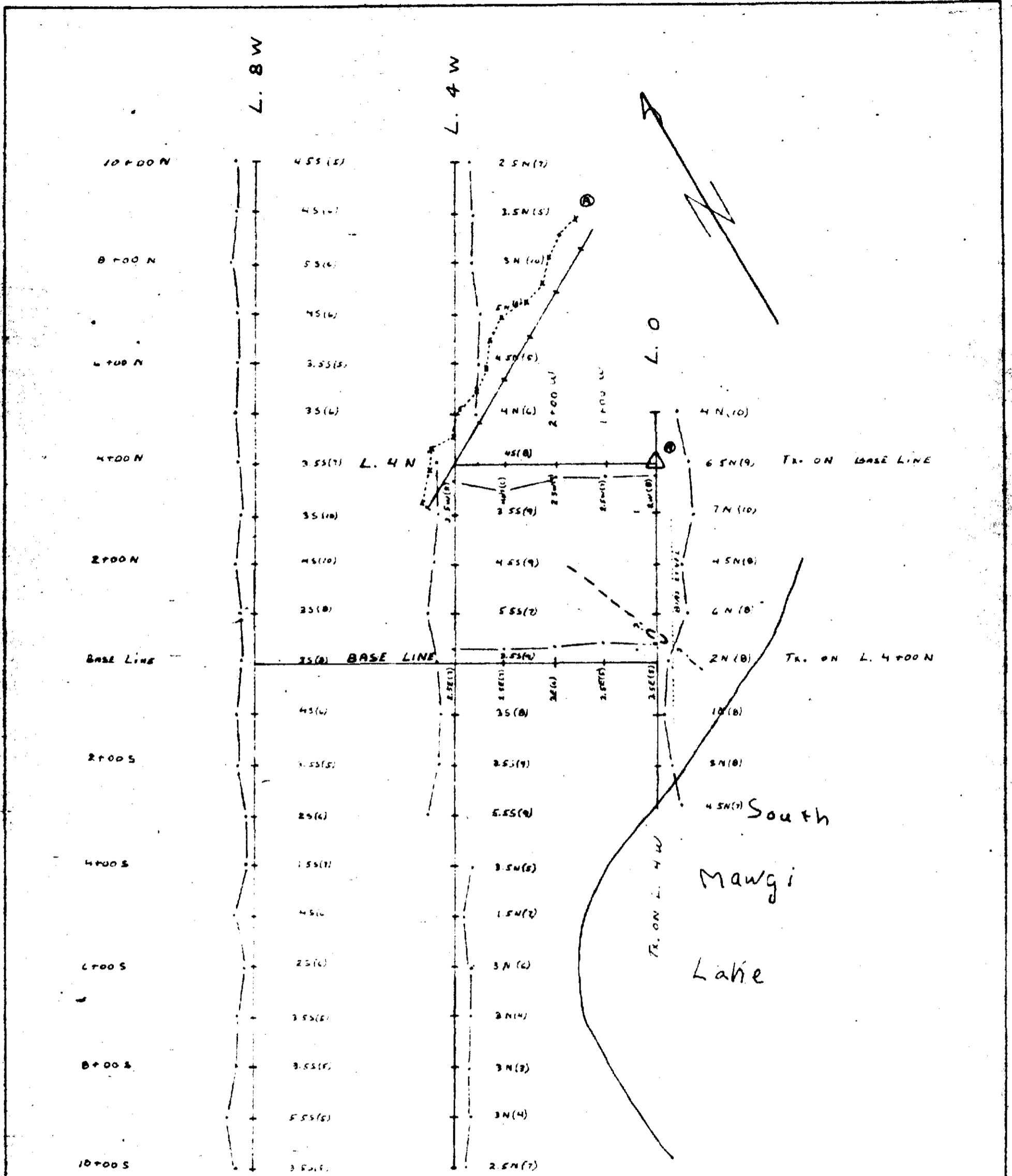
L. B W

L. H W

GLASGOW-0013 120

HAROLD O. SEIGEL & ASSOCIATES, LIMITED		
PROJECT Franc R. Joubin and Associates		
SUBJECT Anomaly "C" in Alderson Twp.		
SURVEY Magnetometer		
<u>Scales:</u>		<u>Legend:</u>
1" = 200'		
1" = 1000γ		
WORK BY H.O.L.	PLOT BY H.O.L.	DATE June 9/63

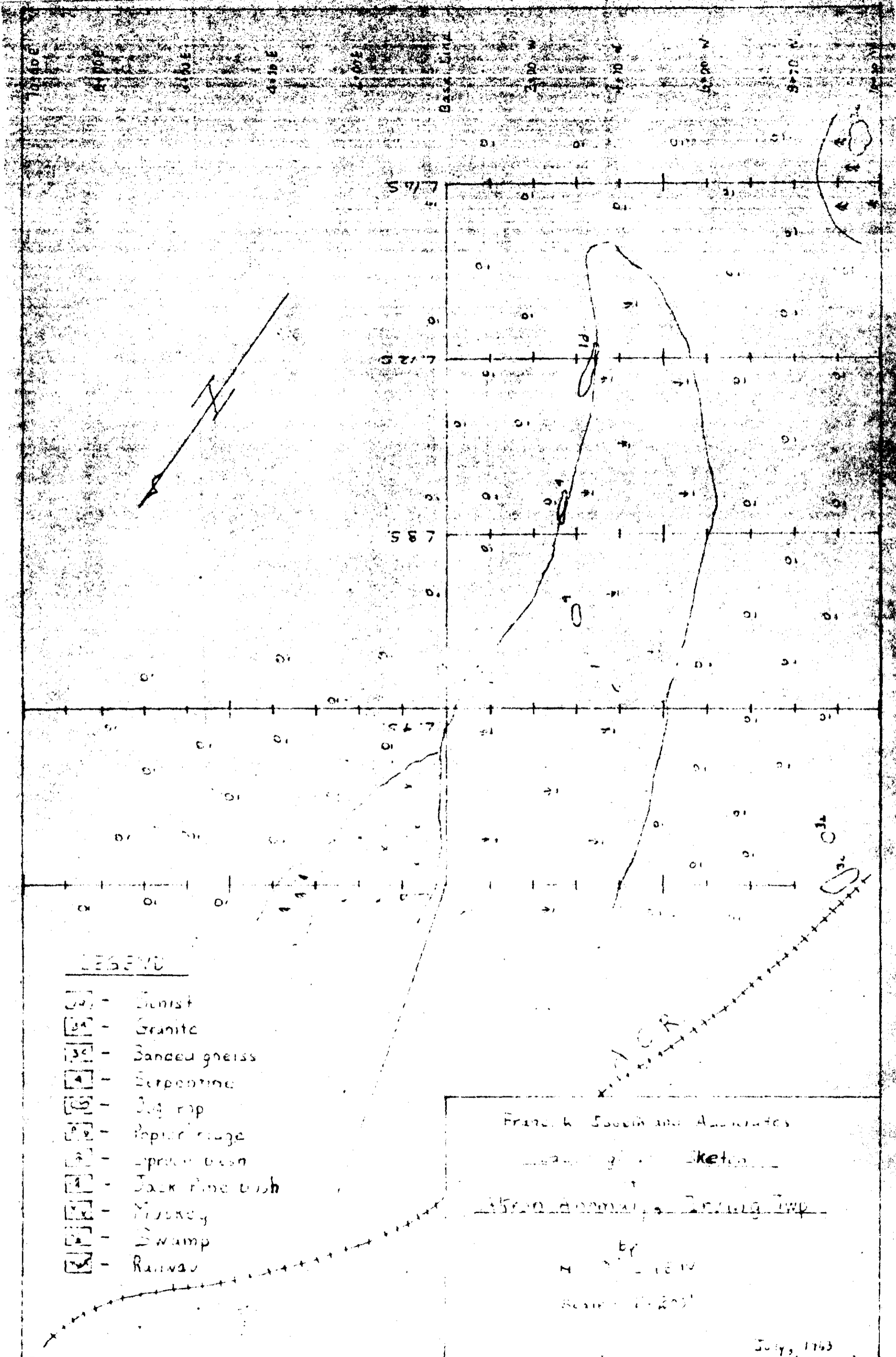




GLASGOW-0013 121

HAROLD O. SEIGEL & ASSOCIATES, LIMITED	
PROJECT FRANC R. JOUBIN & ASSOCIATES, LTD	
SUBJECT	ANOMALY "C" IN ALDERSON TWP.
SURVEY	E.M.
<b>Scales:</b>	<b>Legend:</b>
1" = 200'	PARALLEL LINE RECC. . . . .
1" = 20"	FIXED TRANSMITTER X X
	TRANSMITTER LOCATION Δ
	CONVENTION: EAST TILTS ON NORTH SIDE OF LINES.
WORK BY	G.T. DATE 7-6-63

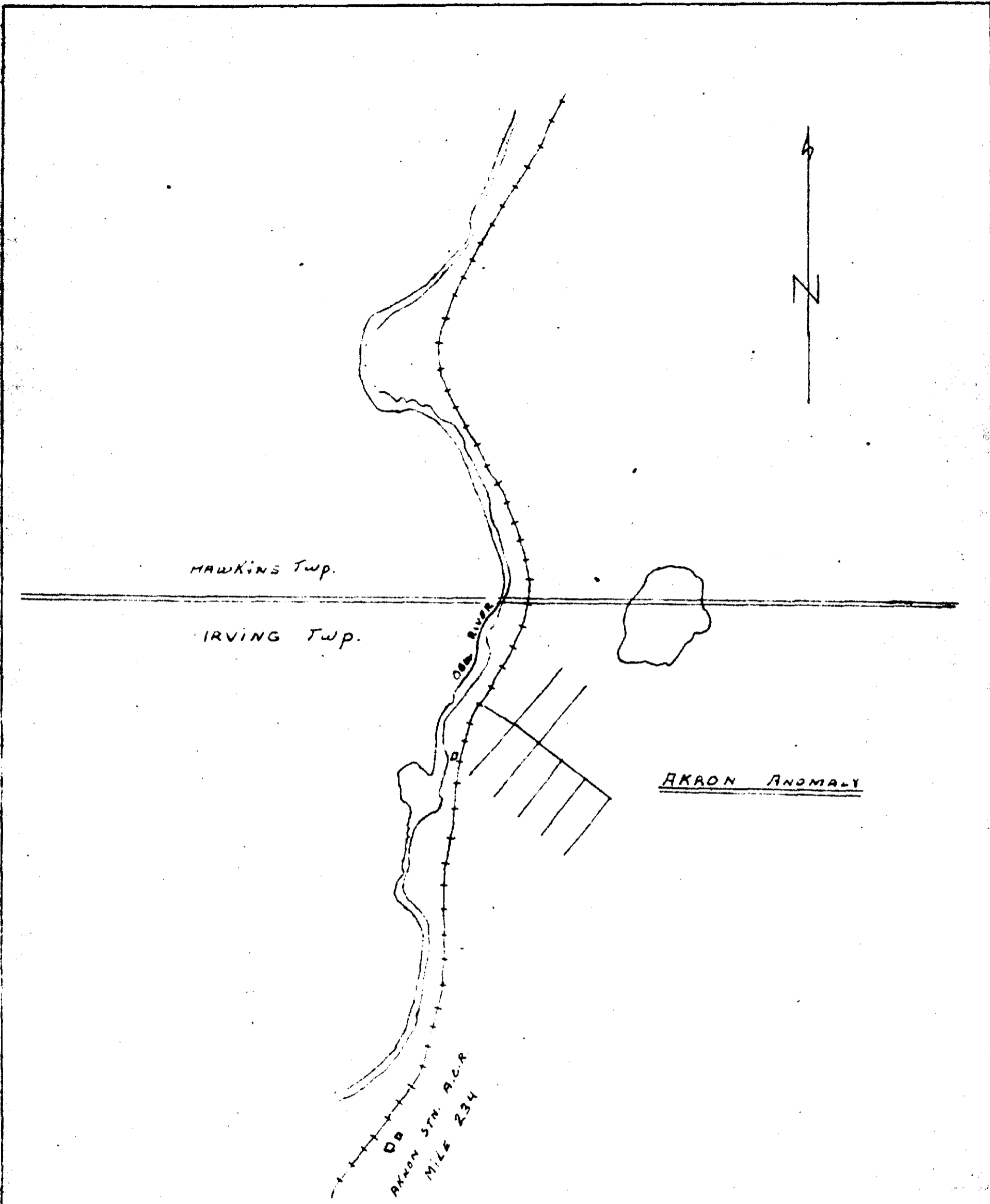




42G12NE002 0013 GLASGOW

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GLASGOW-0013 122

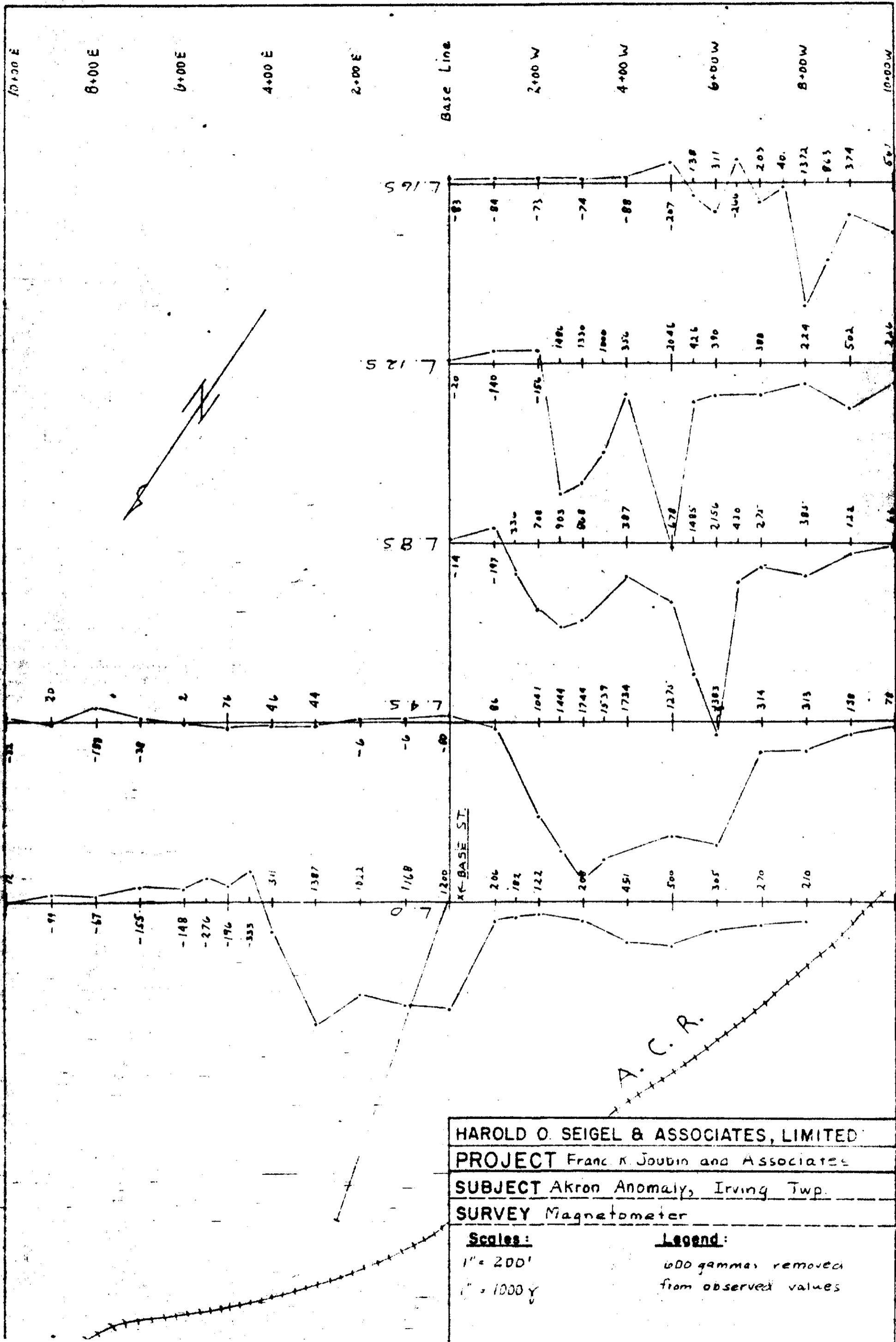


GLASGOW - 0013 123

HAROLD O. SEIGEL & ASSOCIATES, LIMITED	
PROJECT: Franc R. Jouin and Associates LTD.	
SUBJECT: Akron Anomaly, Irving Twp.	
SURVEY: Location	
Scale:	Legend:
1" = 1320'	
WORK BY: G. T. H. L. ... 17-7-53	







HAROLD O. SEIGEL & ASSOCIATES, LIMITED  
 PROJECT Franc K. Joubin and Associates  
 SUBJECT Akron Anomaly, Irving Twp.  
 SURVEY Magnetometer

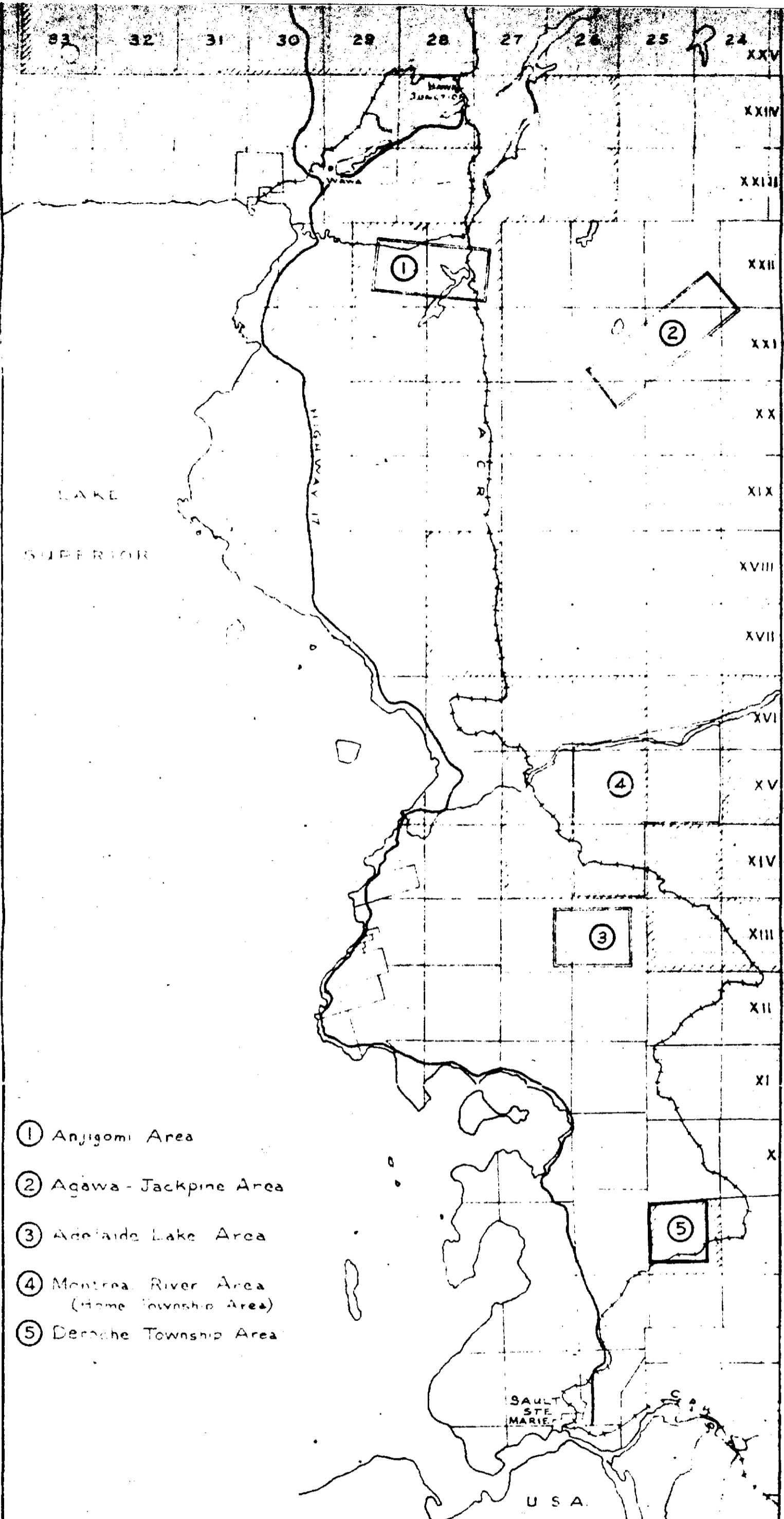
**Scales:**  
 1" = 200'  
 1" = 1000 γ

**Legend:**  
 600 gammas removed  
 from observed values

WORK BY H.O.S.      PLOT BY H.O.S.      DATE July 1952

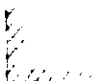






- ① Anjigoni Area
- ② Agawa-Jackpine Area
- ③ Adelaide Lake Area
- ④ Montrea River Area  
(Home Township Area)
- ⑤ Deroche Township Area

ALGOMA CENTRAL & HUDSON BAY RAILWAY CO.

 A.C.R. Land Grant

 Areas Covered by Airborne Geophysical Surveys (A.C.R.)

Scale 1 Inch = 8 Miles

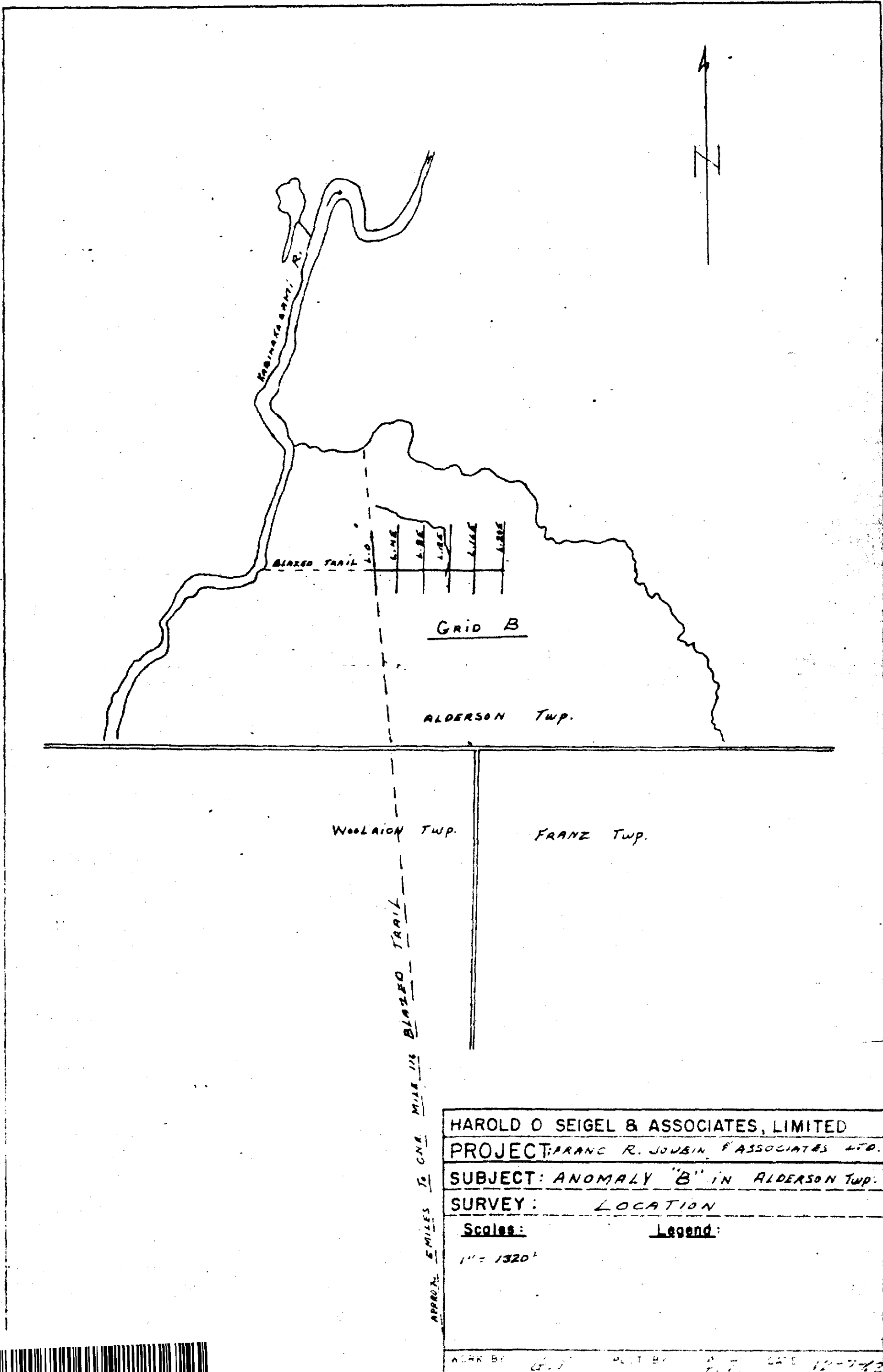


42G12NE0002 0013 GLASGOW

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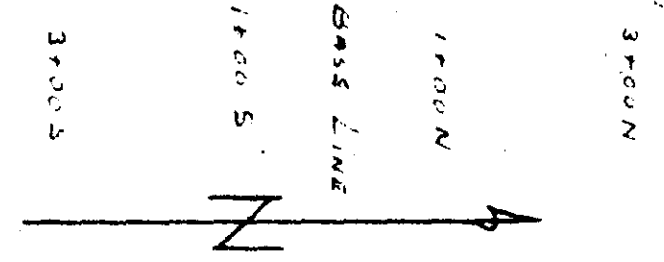
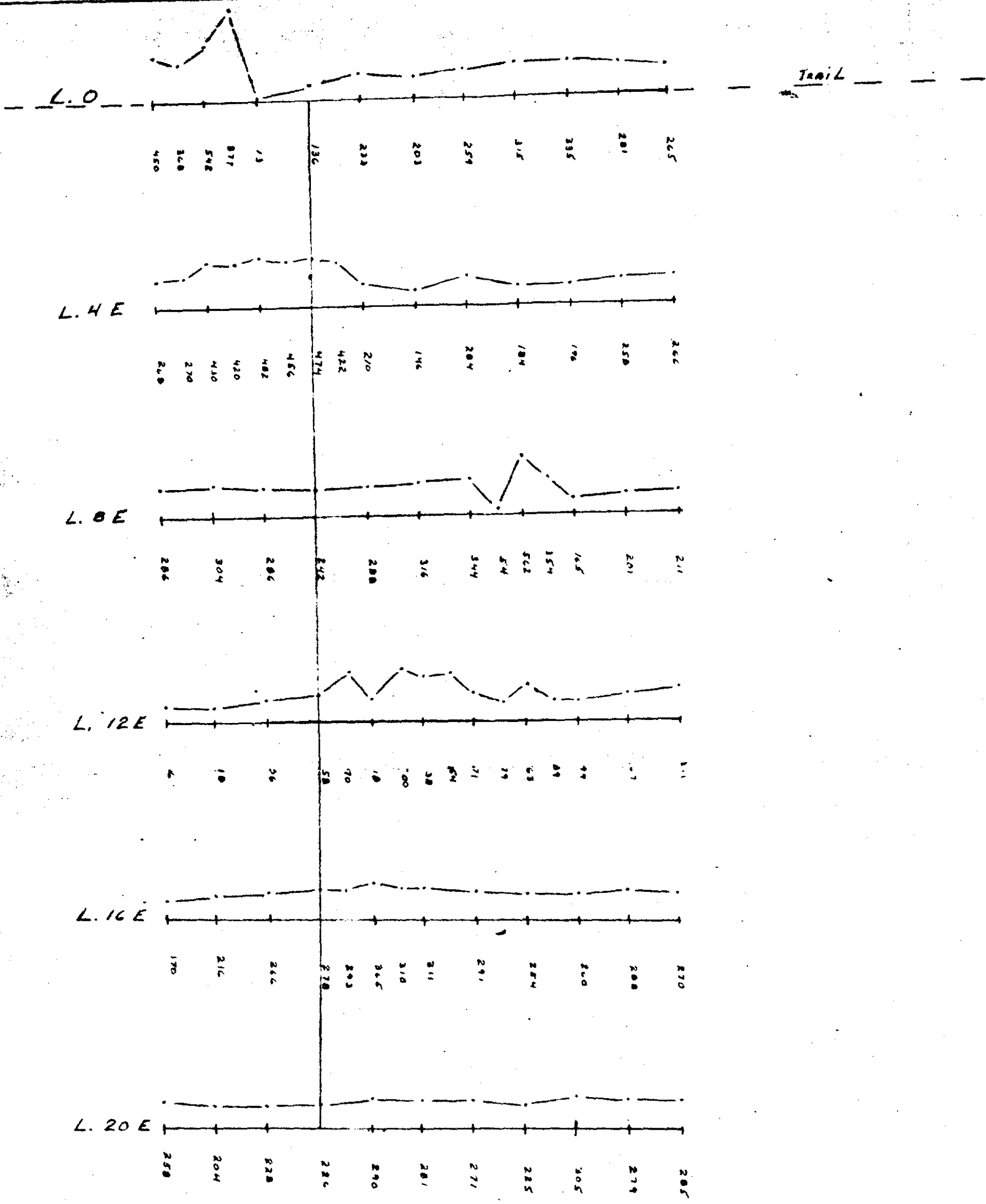
T.N.M. OCT 1964

ASGOW-0013 126



HAROLD O SEIGEL & ASSOCIATES, LIMITED	
PROJECT: FRANC R. JOUBIN ASSOCIATES LTD.	
SUBJECT: ANOMALY "B" IN ALDERSON Twp.	
SURVEY: LOCATION	
<u>Scales:</u>	<u>Legend:</u>
1" = 1320'	
DRAWN BY: G.T.	PLT BY: G.T. DATE 12-7-83





HAROLD O. SEIGEL & ASSOCIATES, LIMITED  
 PROJECT FRANC R. JOUBIN & ASSOCIATES LTD  
 SUBJECT: ANOMALY "B" IN ALDERSON TWP  
 SURVEY MAGNETOMETER

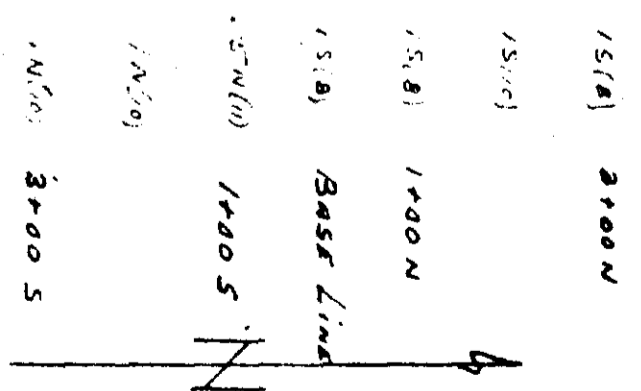
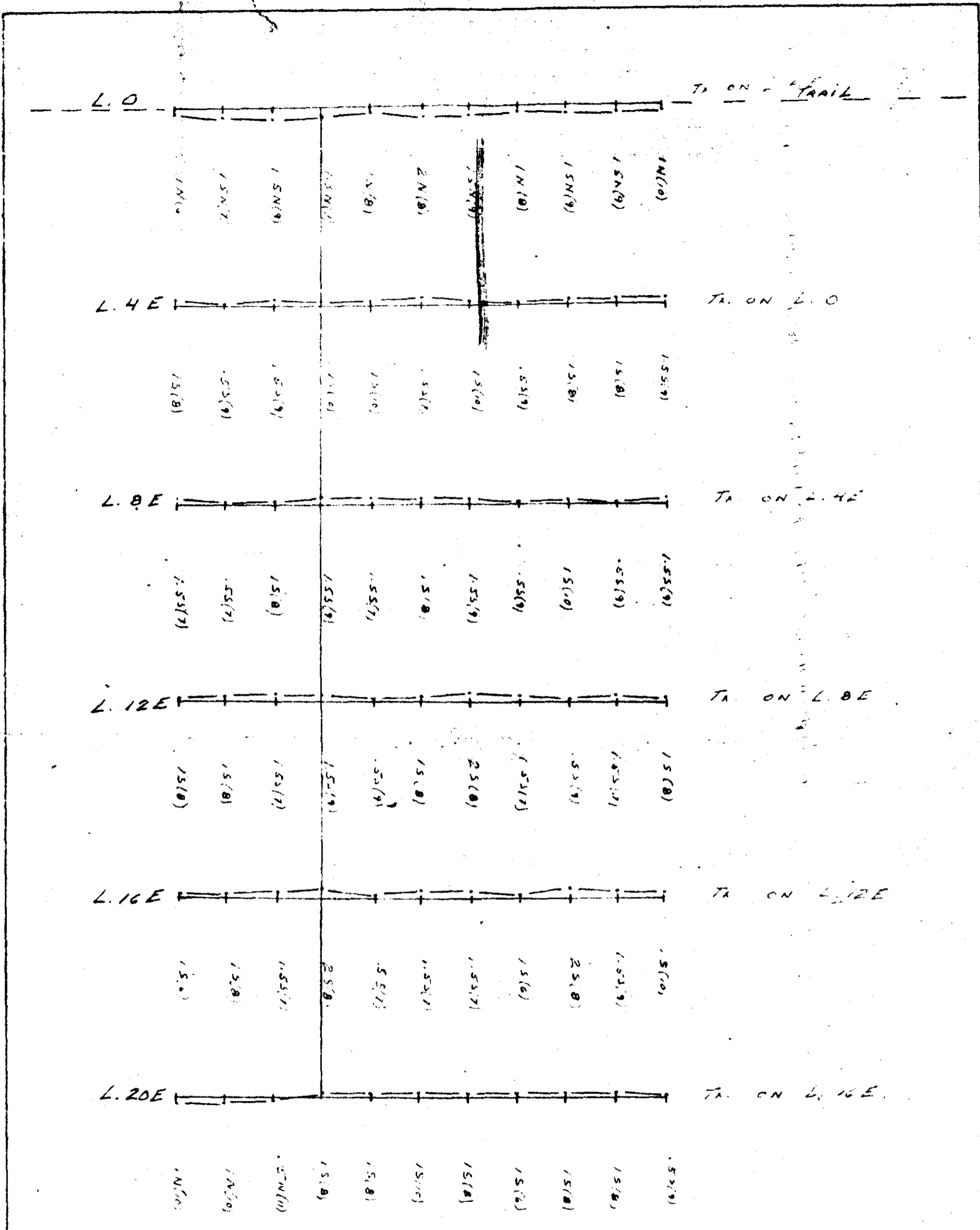
Scales:  
 1" = 200'  
 1" = 1000 GAMMAS

Legend:  
 BASE LEVEL 500 GAMMAS  
 REMOVED FROM OBSERVED  
 VALUES.

WORK BY: G.T. PLOT BY: G.T. DATE 12-7-63





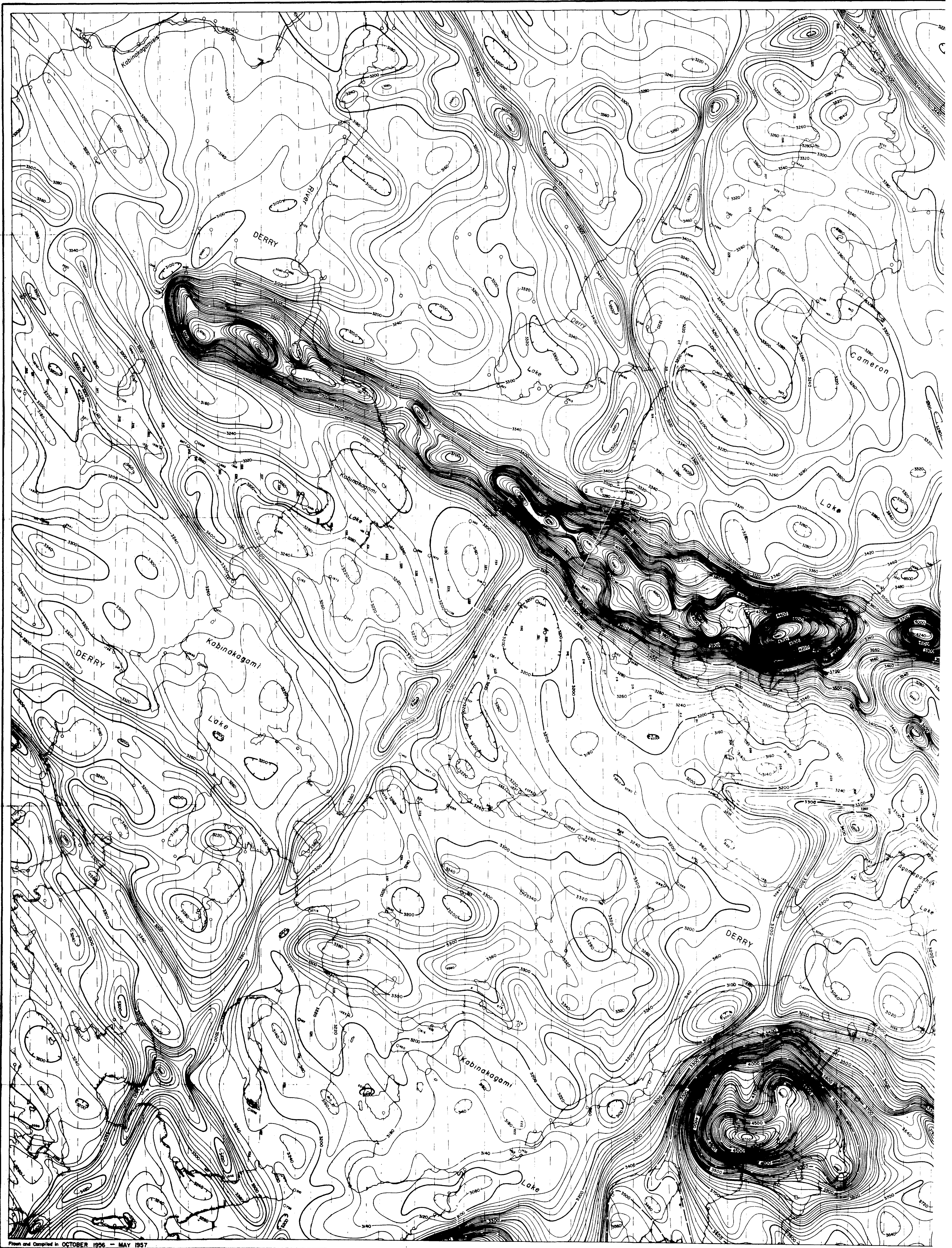


HAROLD O. SEIGEL & ASSOCIATES, LIMITED		
PROJECT: FRANG R. JOUBIN & ASSOCIATES LTD		
SUBJECT: ANOMALY "B" IN ALDERSON TWP		
SURVEY: E. M.		
Scales: 1" = 200' 1" = 20°		Legend: PARALLEL LINE RECOR. ——— FIXED TRANSMITTER X---X TRANSMITTER LOCATION Δ CONVENTION: EAST TILTS ON NORTH SIDE OF LINES.
WORK BY: G. T.	PLOT BY: G. T.	DATE: 12-7-63



42G12NE0002 0013 GLASGOW





Plotted and Compiled in OCTOBER 1956 - MAY 1957

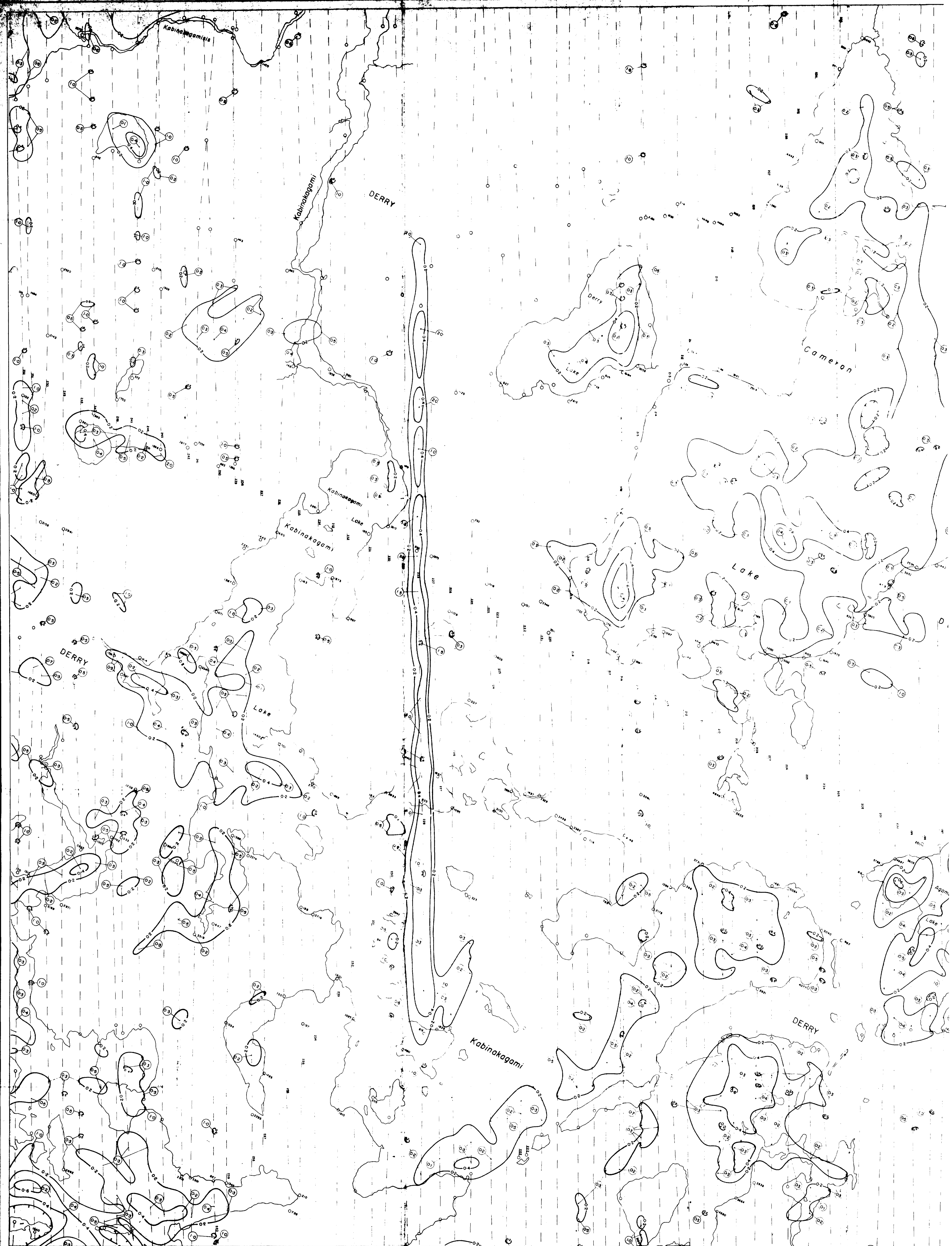
CONTOUR INTERVAL ..... 20 BARMS  
 MEAN FLIGHT LINE SPACING ..... 800 FEET  
 MEAN TERRAIN CLEARANCE ..... 800 FEET  
 500 BARMS CONTOUR .....  
 200 BARMS CONTOUR .....  
 50 BARMS CONTOUR .....  
 MAGNETIC LOW .....

TOWNSHIP OF DERRY

SCALE  
 1000 2000 3000 4000 5000  
 FEET  
 1 Inch to 1320 Feet







Plans and Compiled in OCTOBER 1956 - APRIL 1957

ELECTROMAGNETIC CONTOUR  
 MEAN FLIGHT LINE SPACING 650 FEET  
 MEAN TERRAIN CLEARANCE 500 FEET  
 MAGNETIC ANOMALY  
 POINTS  
 1:4000

GLASGOW-0013  
 #90

1000-0013  
 OP

TOWNSHIP OF DERRY

SCALE  
 1000 0 1000 2000 3000 4000 5000  
 FEET  
 1 inch to 1320 Feet

