

52F09NW0015 2.2562 MELGUND

010

SELCO MINING CORPORATION LIMITED

BLOCK 800-6

BOYER AREA - ONTARIO

GEOPHYSICAL REPORT

K. Thorsen,
Cochenour, Ontario

December, 1977

BLOCK 800-6

INTRODUCTION

During the summer of 1977 an exploration program including linecutting and electromagnetic and magnetic surveys was conducted over the following claims located in the areas of Tabor Lake, M2653 and Kawashegamuk, M2573 in the Kenora Mining Division:

KRL 449815-449819 inclusive	KRL 449856
KRL 449822-449830 "	KRL 448156-448158 inclusive
KRL 449832-449837 "	KRL 448161,448162
KRL 449839-449843 "	KRL 448164-448169 "
KRL 449846-449850 "	
KRL 449852-449853 "	

Access is via a road south from Borrups corners approximately 4 miles to the southern base line.

GENERAL GEOLOGY

The claims are underlain by mafic, intermediate and felsic volcanics with some diorite intrusive.

RESULTS

Twenty-nine conductive zones were noted during the course of the survey and are described as follows:

- 1) Line 28E-23N to 25N to Line 32E, 25N to 26N. This moderately good zone on line 28E is within mafic volcanics with a relatively flat magnetic pattern. On line 32E the response is primarily quadrature reflecting perhaps the low ground in the vicinity. One hole would be drilled on line 28E.

- 2) Line 20E 7N to 8N to Line 24E, 5N to 6N. This quadrature response is reflective of the overburden in the wet muskeg.
- 3) Line 20E 0 to 1N to Line 24E, 2N. This quadrature response is like number 2 above and also reflecting of wet swamp conditions.
- 4) Line 20E 5+50S to Line 32E, 1N. This extremely strong in-phase zone, in conjunction with low magnetic relief is caused by a graphitic horizon. The conductor is within mafic volcanics and was probably drilled in 1974 (collar discovered). No further work is necessary.
- 5) Line 36E 4+50N to Line 48E, 3+25N to 4+25N. This strong conductive zone flanks a magnetic high to the north and appears to be associated with intermediate volcanics. One hole could be drilled to intersect this horizon.
- 6) Line 20E 10S to Line 52E, 8S. This moderately strong conductor appears to follow a diorite contact on the eastern end and cuts across mafic volcanics to the west. It primarily follows a magnetic low and is probably a weak graphite zone.
- 7) Line 36E 11S to Line 48E, 11+50S. Again this is a moderately strong conductive zone within a magnetic low and in mafic volcanics. It probably reflects a graphitic horizon.

- 8) Line 36E 22S to Line 40E, 21S. Intermediate volcanics are the host for this strong conductor in a moderately low magnetic pattern.
- 9) Line 48E 0+50 to 1N to Line 68E, 0. This conductor is possibly two conductors. From Line 48E to Line 56E it has a very strong in-phase response and from 60E to 68E it is primarily a quadrature response. The western end also is coincident with a relatively high magnetic anomaly whereas the eastern end is in flat magnetic terrain. One hole could be drilled on line 56E.
- 10) Line 44E 11+50N to Line 48E, 10+50 to 11N. This moderately good conductor flanks a small granodiorite plug to the south and is also within a flat magnetic pattern possibly reflecting a sheared contact zone. No further work is necessary.
- 11) Line 56E 0+50 to 9N to Line 64E, 8 to 8+50N. This broad moderately weak conductor lies in a low magnetic field. It was probably previously drilled (collar found); hence no further work is necessary.
- 12) Line 60E 22 to 22+50N to Line 72E, 23N. This moderately good conductive zone within a flat magnetic field lies within a diorite intruse and may be reflective of a shear zone. No further work is necessary.
- 13) Line 60E 15N to Line 72E, 14+50N. This broad moderately weak zone lies within a weak magnetic zone in intermediate volcanics. One hole could be drilled to intersect the horizon.

- 14) Line 60E 4N to Line 68E, 4N. This poor conductive zone in a flat magnetic pattern lies within felsic volcanics. Because of the geology, the zone should be drilled but only as a low priority target.
- 15) Line 64E 10+50S to Line 92E, 12 to 14S. This moderate conductive zone lies within a flat magnetic zone in felsic volcanics. As some of the volcanics are coarse pyroclastics, this zone should be drilled. Line 80E would appear to have the most promise.
- 16) Line 76E 6 to 7S to Line 80E, 4+50 to 5+25S. This strong conductive zone is coincident with a very high magnetic anomaly (7000 gammas on line 76E). It is probably reflective of iron formation but the existence of felsic rocks nearby gives the zone a drilling priority.
- 17) Line 76E 3N to 5N. This broad, moderately good conductor lies within a flat magnetic pattern in intermediate volcanics. No further work is necessary.
- 18) Line 88E 6+50S to Line 100E, 7+00S. The western end of this conductor lies within the same magnetic high as zone 16 and the eastern end lies within a magnetic low. Felsic outcrops in the vicinity make this an interesting target that should be drilled if encouragement is received in the drilling of zone 16.

- 19) Line 44E 27S to Line 56E, 29S. This moderately strong conductive zone is within a flat magnetic pattern in a diorite intrusive. It probably reflects a shear zone and hence is not a drill target.
- 20) Line 36E 37S to Line 52E, 34S. This thin, moderately weak zone lies in a magnetic high to the west and a flat magnetic zone to the east. It appears to be within the diorite intrusive, hence no further work is necessary.
- 21) Line 68E 31+50 to 32+50S to Line 72E, 32S. This broad, moderately good conductor flanks a magnetic low and lies within the diorite intrusive. No further work is necessary.
- 22) Line 68E 39 to 40+50S to Line 76E, 40 to 41S. This broad moderately weak zone lies within a magnetic low at the east end and a 3500 gamma magnetic high at the west end. It appears to be within the boundaries of the intrusive rock.
- 23) Line 76E 35S to Line 84E, 37S. This thin moderately weak conductive zone lies within a magnetic low zone very close to the diorite contact. It is possibly reflective of a sheared contact zone.
- 24) Line 76E 44S to 46S to Line 92E, 40 to 41+50S. This broad, strong conductive zone flanks a magnetic high to the north except on Line 84E where it is directly coincident with a 1500 gamma high. Except for the west end where it appears to lie in mafic volcanics, it seems to be underlain by diorite intrusive.

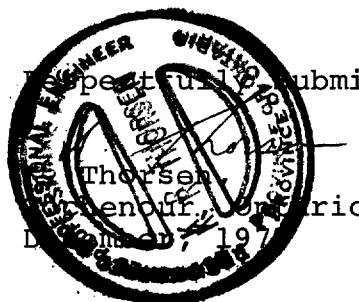
- 25) Line 96E 51+50 to 53S to Line 108E, 49S. This moderately strong conductor is coincident with a 500 gamma magnetic high on line 104E and with moderate lows on all other lines. It appears to lie within intermediate volcanics and has been drilled (collar found).
- 26) Line 36E 54+50 to 55+50S to Line 48E, 57 to 57+50S. This moderately strong conductive zone is within a relatively flat magnetic zone close to a diorite, mafic volcanic contact. A hole could be drilled to intersect this zone.
- 27) Line 36E 61+50 to 63S. This moderately strong conductor is still open to the west. It lies within a flat magnetic field in mafic volcanics.
- 28) Line 44E 67+50 to 68S. This zone is identical to zone 36.
- 29) Line 36E 79 to 80S to Line 44E, 78S. This moderately good conductive zone flanks a magnetic high to the south and lies within mafic volcanics.

RECOMMENDATIONS

Of the above zones, the following should be drilled if time and money permits: Zone 1,5,9,13,14,15,16,26, 1 of 12,19,20,21,22, 23 and 1 of 26,27,28,20. None of these should be drilled without further geological ground reconnaissance and some geophysical checks where the quadrature was not working.

Co-authored by:

L.E. Reed,
Toronto, Ontario
December, 1977



Submitted:



52F09NW0015 2.2562 MELGUND

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SELCO MINING CORPORATION LIMITED

BLOCK 800-7

BOYER AREA - ONTARIO

GEOPHYSICAL REPORT

K. Thorsen,
Cochenour, Ontario

December, 1977

INTRODUCTION

During August and September, 1977 an exploration program including linecutting and electromagnetic and magnetic surveys was conducted over the following claims located in the area of Tabor Lake - M2653 in the Kenora Mining Division:

KRL 449787
KRL 449788
KRL 488152
KRL 488153

Access is via a bush road that turns south off Highway 17 at Borups corners.

GENERAL GEOLOGY

The grid is underlain primarily by mafic volcanics with minor intermediate volcanics.

RESULTS

One good conductive zone runs from Line 16 00E, 13 50S to Line 20 00E, 12 50S. There is a moderately weak magnetic correlation.

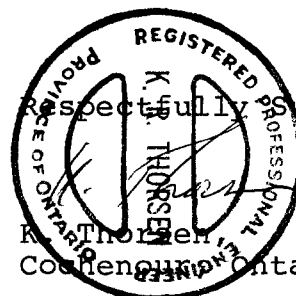
RECOMMENDATIONS

The above conductor should be drilled.

Co-authored by:

L.E. Reed,
Toronto, Ontario

December, 1977



Respectfully Submitted,

K. Thorsen,
Cochengrain, Ontario

December, 1977



52F09NW0015 2.2562 MELGUND

030

SELCO MINING CORPORATION LIMITED

BLOCK 800-3

BOYER AREA - ONTARIO

GEOPHYSICAL REPORT

K. Thorsen,
Cochonour, Ontario

December, 1977

BLOCK 800-3

INTRODUCTION

During the summer of 1977 an exploration program including linecutting and electromagnetic and magnetic surveys was conducted over the following claims located in the area of Melgond Township M2011 in the Kenora Mining Division:

KRL 449770
KRL 449772 to KRL 449778 inclusive
KRL 449780, 449781
KRL 448148

Access is via a road south from Highway 17 at Borrups corners for approximately 3 miles. Thence the block is approximately 1 mile to the east.

GENERAL GEOLOGY

Rocks mainly consist of mafic volcanics with minor intermediate and felsic volcanics.

RESULTS

Electromagnetic surveys discovered several conductive zones that are described as follows:

- 1) 12+00E 4+00N to 4+50N to 16+00E, 4+50 to 5+00N. This zone is a weak out-of-phase conductor with a low magnetic correlation. Topographically it is in a low wet spot - this may be the cause of the conductor.
- 2) 12+00E 3+00N to 16+00E, 3+50N. This very weak out-of-phase response parallels number 1 and is possibly caused by the swamp edge.

- 3) Line 12+00E 4+00S to 36+00E, 4+50S. This conductor varies from one with a moderately strong, good ratio response to one with primarily quadrature response. It is within a flat magnetic pattern although flanked by a high magnetic trend to the south. A hole was drilled on Line 24+00 and intersected intermediate volcanics with minor metasediments. One sedimentary band contained graphitic slips with minor disseminated pyrrhotite and pyrite.
- 4) Line 20+00E 0 to 0+50S to Line 40+00E, 0+50N. This poorly defined conductor sits within a flat magnetic pattern. Its characteristics indicate it has a similar source to # 3.
- 5) Line 28+00E 16+50S to Line 40+00E, 15+00S. This poorly defined, sinuous conductive zone flanks the magnetic high on line 28+00E and deteriorates into the flatter magnetics to the east.
- 6) Several other one line conductors are present on the grid but are generally weak, non-magnetic responses. They indicate poor instrument alignment, probably due to rough terrain.

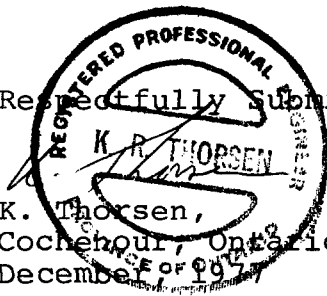
RECOMMENDATIONS

One hole could be drilled on both zones 4 and 5 but these should remain low level priorities.

Co-authored by:

L.E. Reed,
Toronto, Ontario
December, 1977

Respectfully Submitted:


K. Thorsen,
Cochran, Ontario
December, 1977

KAWASHEGAMUK LAKE

2.2562

DISTRICT OF KENORA

KENORA MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND ⊙
- CROWN LAND SALE C.S.
- LEASES ⊖
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS —
- IMPROVED ROADS —
- KING'S HIGHWAYS —
- RAILWAYS —
- POWER LINES —
- MARSH OR MUSKIEG —
- MINES —
- CANCELLED —

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

Roads indicated Dryden Paper Co Private Road may be used by prospectors only after permission is obtained from Dryden Paper Co. Dryden, Ont.

DATE OF ISSUE

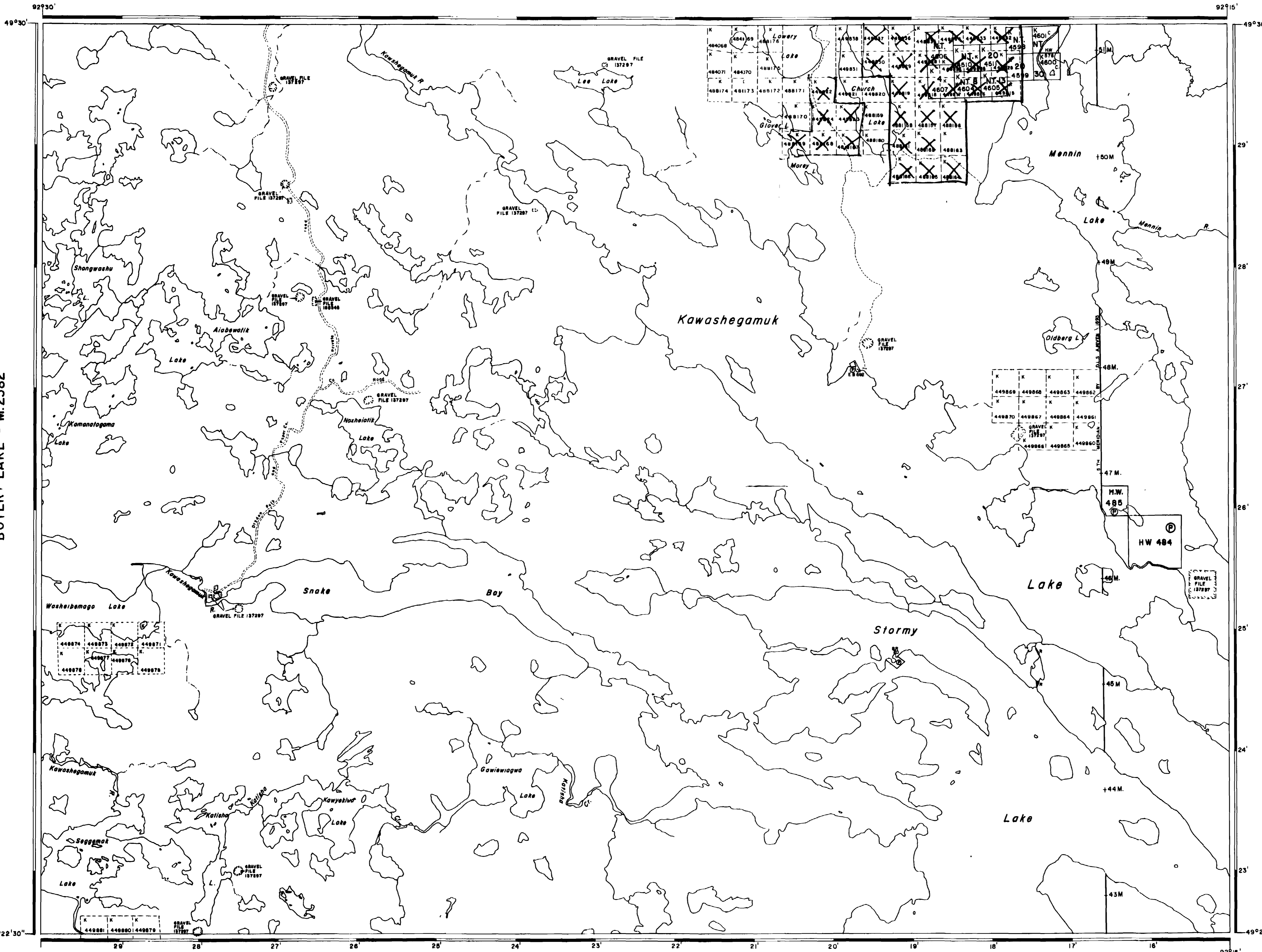
JAN - 6 1978

SURVEYS AND MAPPING BRANCH

NATIONAL TOPOGRAPHIC SERIES 52F8

PLAN NO. - M-2573

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



BOYER LAKE - M.2582

REVELL LAKE - M.2569



TABOR LAKE

2.2562

DISTRICT OF
KENORA

KENORA
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND ● or (P)
- CROWN LAND SALE C.S.
- LEASES (L)
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS —
- IMPROVED ROADS —
- KING'S HIGHWAYS —
- RAILWAYS —
- POWER LINES —
- MARSH OR MUSKEG —
- MINES *
- CANCELLED ○
- PATENTED S.R.O. ○

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

Roads indicated PRIVATE may be used by prospectors only after permission is obtained from Dryden Paper Co., Dryden, Ontario.

DATE OF ISSUE

JAN - 6 1978

SURVEYS AND MAPPING
BRANCH

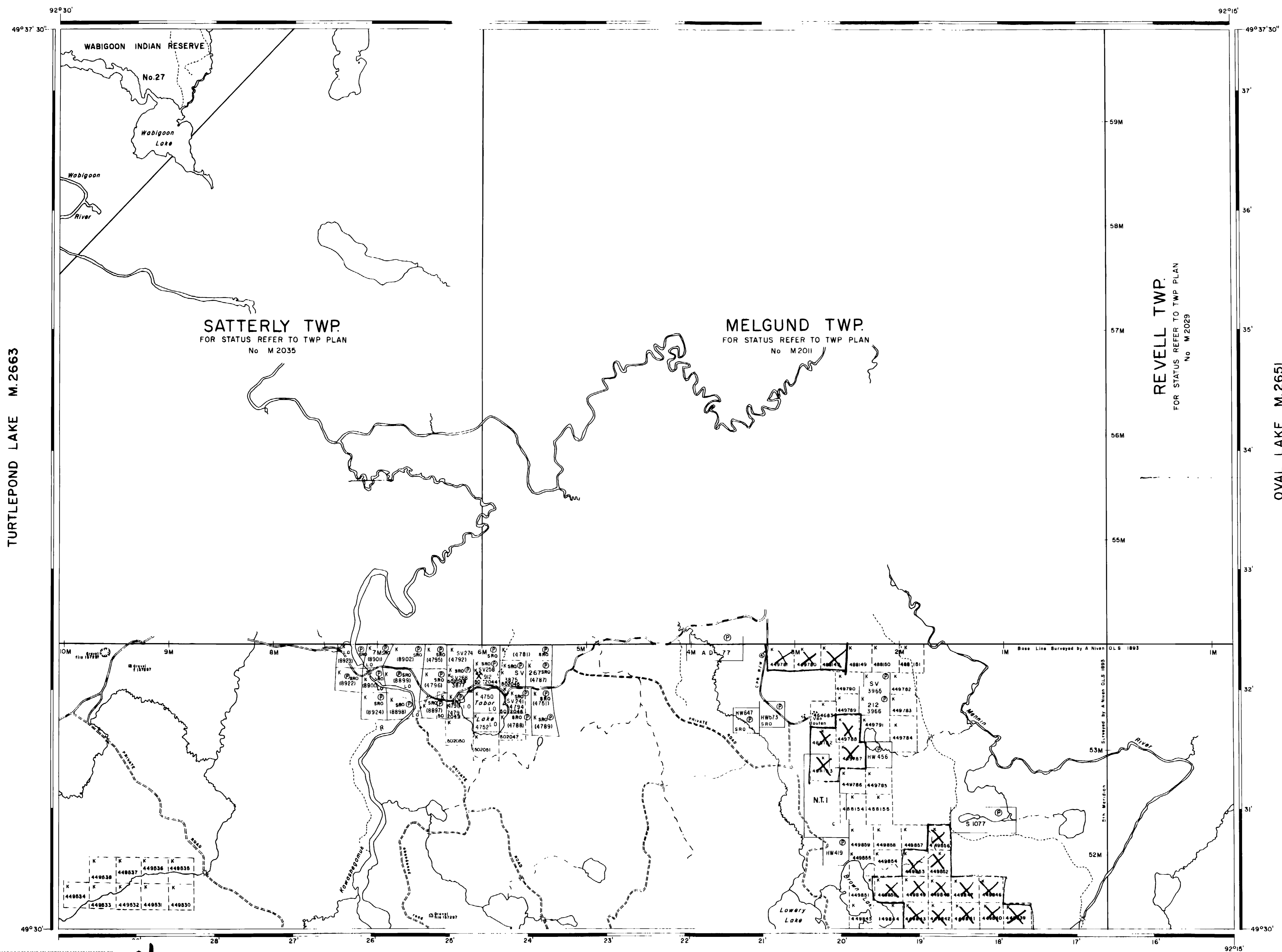
NATIONAL TOPOGRAPHIC SERIES 52F9

PLAN NO. **M.2653**

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH



TURTLEPOND LAKE M.2663

OVAL LAKE M.2651

KAWASHEGAMUK LAKE M.2573



N
210

2.2562

DATE OF ISSUE
JAN - 6 1978
SURVEYS AND MAPPING
BRANCH

MELGUND TWP.

KENORA MINING DIVISION.

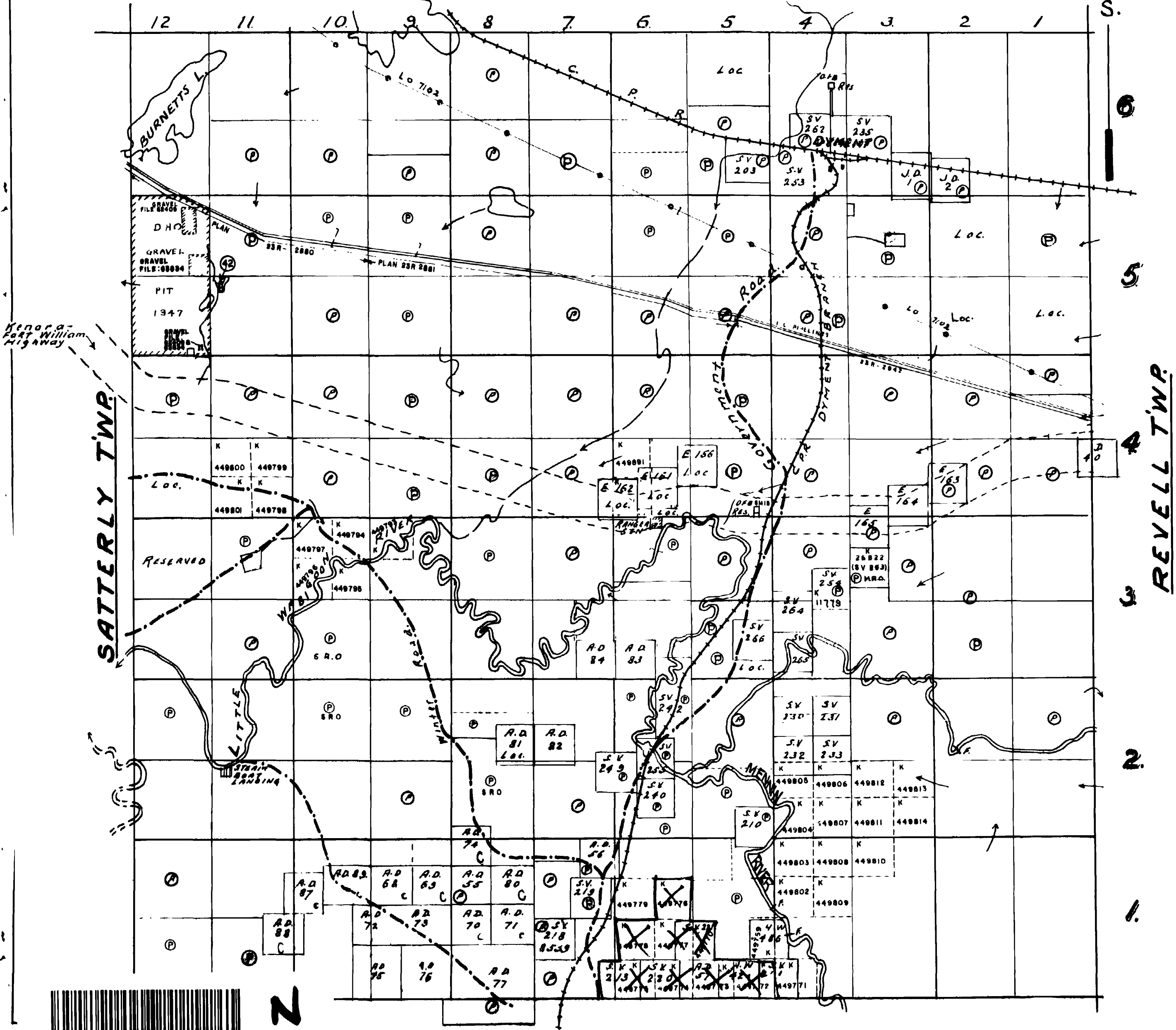
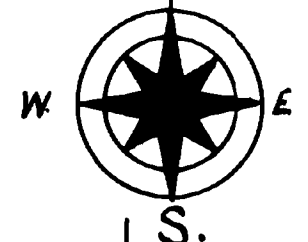
DISTRICT OF KENORA.

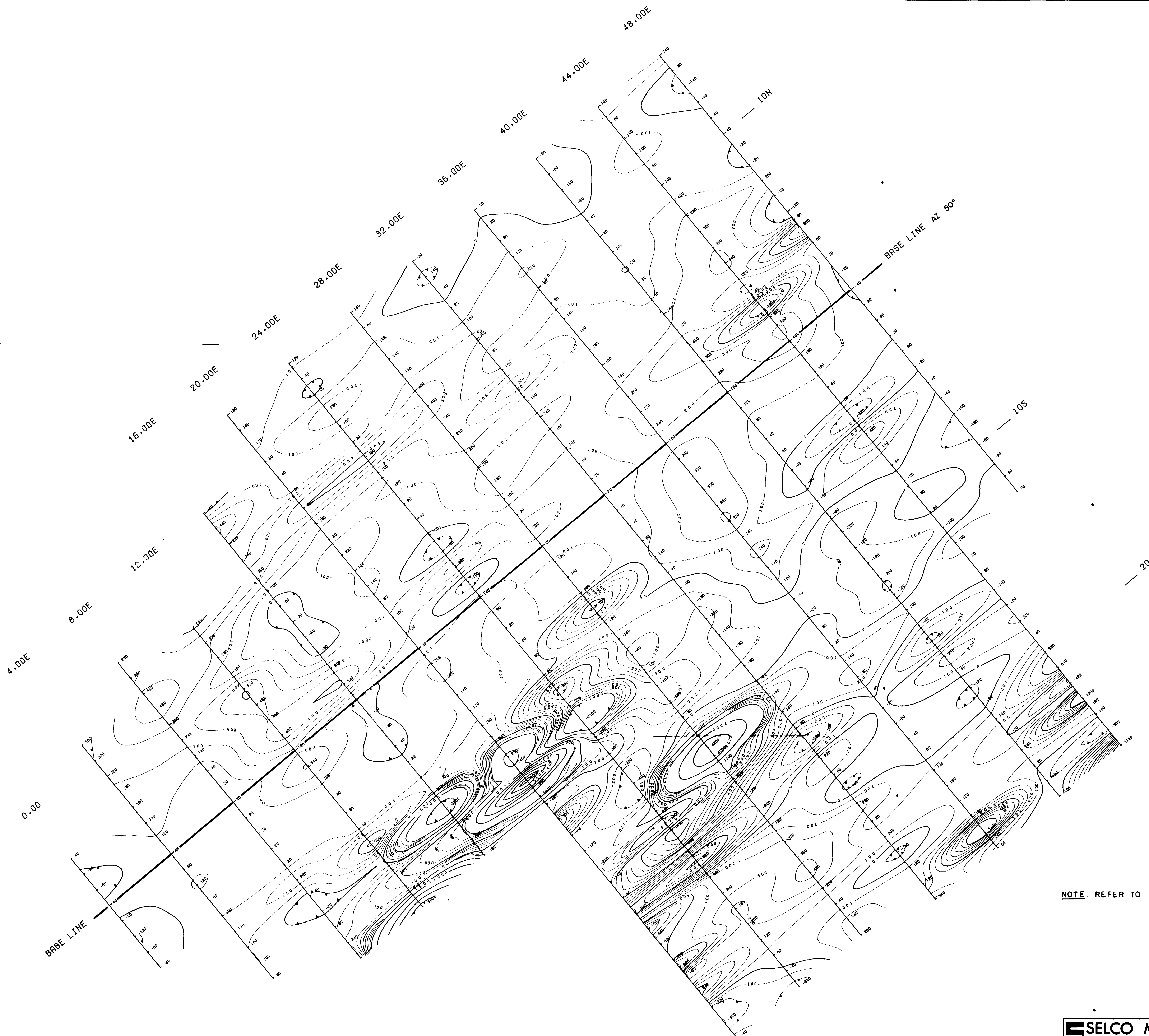
Scale, 40 chains to an inch.

Areas withdrawn from staking under Section 42 of the Mining Act.

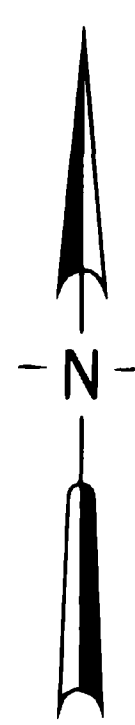
File	Date	Disposition
42 163473	Mar 1/71	S.R.O.

AVERY TWP.





NOTE: REFER TO BO. 2294B—H.L.E.M. CLAIMS,
 LOC. PLAN, D.D.H.
 BO. 2316 — GEOLOGY.

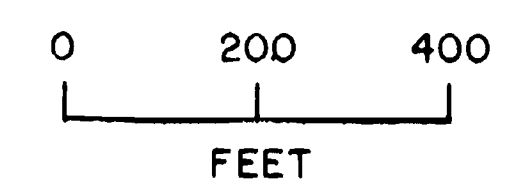


SELCO MINING CORPORATION
 (EXPLORATION DIVISION) LIMITED

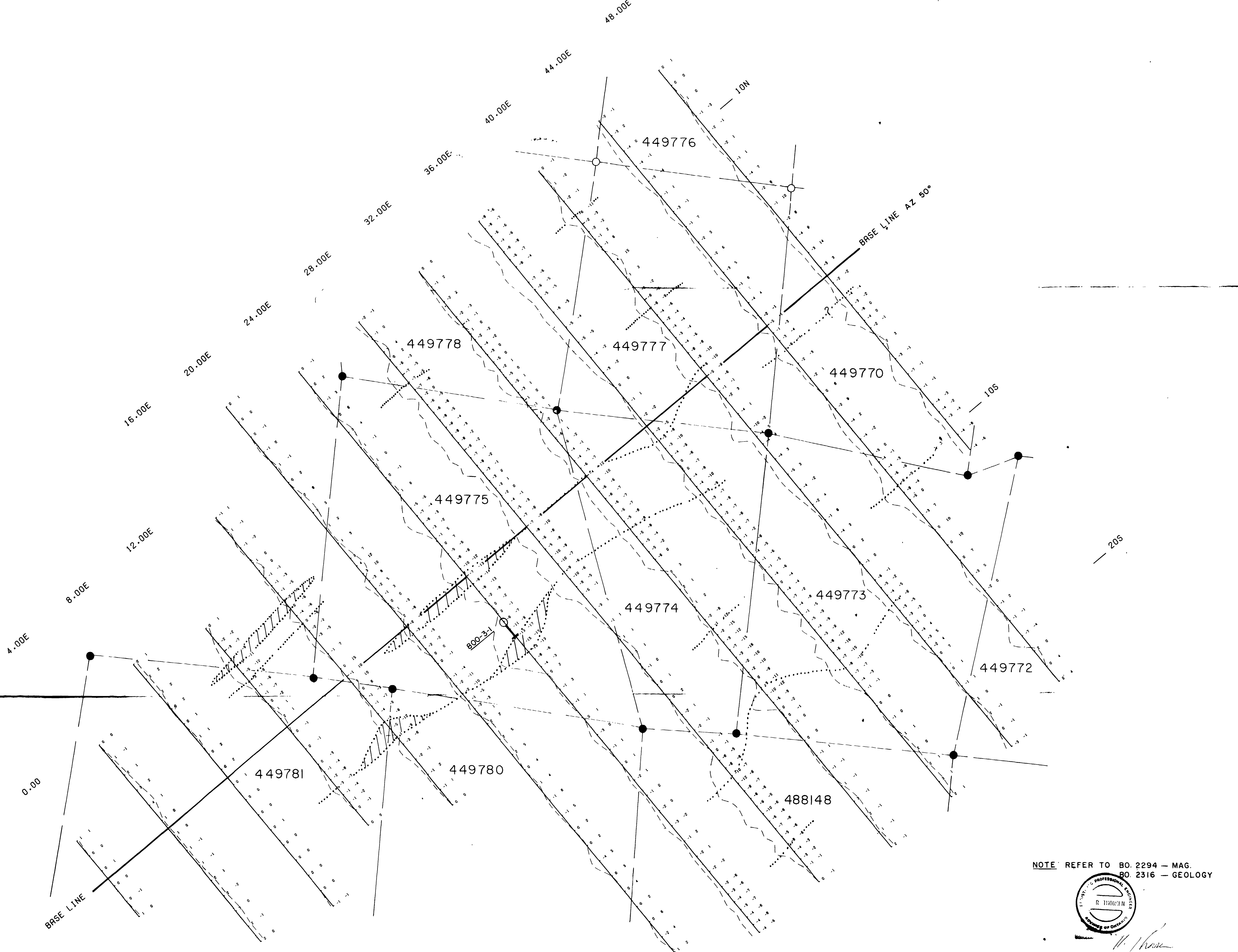
BOYER AREA
 BLOCK 800-3 — MAG. SURVEY

2-2562

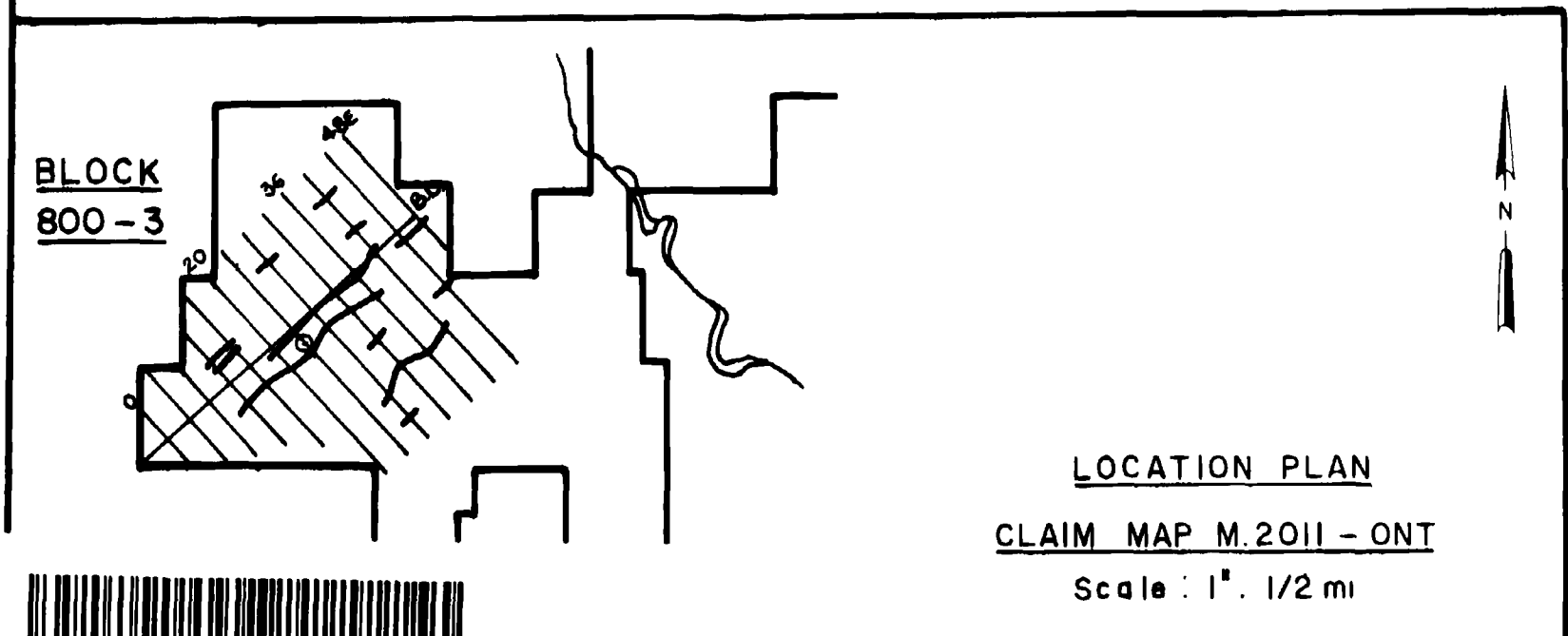
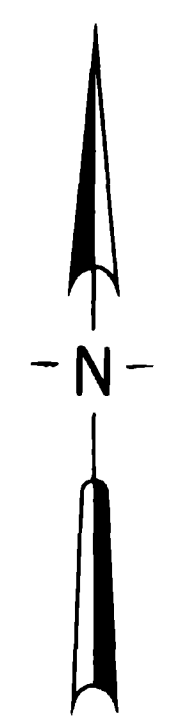
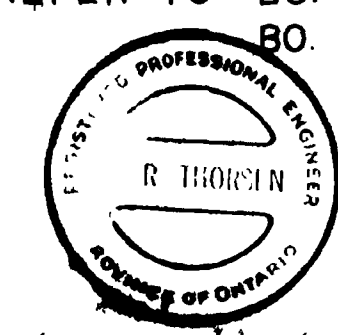
MAGNETOMETER INSTRUMENT
 TYPE: McPHAR M-700
 Readings in Gammas: $\begin{matrix} 260 \\ 340 \end{matrix}$
 Base:
 Contour Interval: Every 100 Gammas to 1000 Gammas
 Every 1000 Gammas thereafter
 Profile:



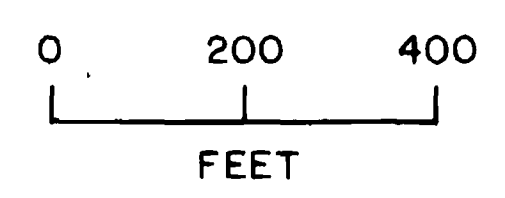
DRAWN BY A.C.	DATE July '77	PLAN NO BO. 2294
TRACED BY J.G.	DATE Sept '77	



NOTE REFER TO BO. 2294 - MAG.
BO. 2316 - GEOLOGY



ELECTROMAGNETIC INSTRUMENT
TYPE: GEONICS EM -17
HORIZONTAL LOOP (Percent of Primary Field)
Frequency: 1600 Hz
Cable Length: 300'
In Phase: ● ● ● ● ● [0 1]
Out of Phase Quadrature: ● ● ● ● ● [2 3]
Conductor Width: 1/2"
Profile Scale: 1" = 20%



NOV '77	Added 800-3-1
SELCO MINING CORPORATION (EXPLORATION DIVISION) LIMITED	
BOYER AREA BLOCK 800-3 - H.L.E.M. SURVEY	
DRAWN BY: T.K.	DATE: July '77
TRACED BY: J.G.	DATE: Sep '77
PLAN NO. BO. 2294B	

20.00E 24.00E 28.00E 32.00E

36.00E 40.00E 44.00E 48.00E 52.00E 56.00E 60.00E 64.00E 68.00E 72.00E 76.00E 80.00E

84.00E 88.00E 92.00E 96.00E 100.00E

30N

30N

20N

20N

10N

10N

BASE LINE

BASE LINE AZ. 127°

10S

10S

20S

25S

20S

25S

BROWN LAKE

MAGNETOMETER INSTRUMENT
 TYPE: McPHAR M-700
 Readings in Gammas: 420
 Base: 340
 Contour Interval: Every 100 Gammas to 1000 Gammas
 Every 500 Gammas to 5000 Gammas
 Profile: Every 100 Gammas thereafter

0 200 400
 FEET

NOTE: REFER TO BO. 2296B - H.L.E.M., CLAIMS,
 LOCATION PLAN
 BO. 2317 - GEOLOGY



SELCO MINING CORPORATION
 (EXPLORATION DIVISION) LIMITED

BOYER AREA
 BLOCK 800-6 - MAG. SURVEY

DRAWN BY: A.C. DATE: 5/28/77 PLAN NO: B02296
 TRACED BY: Data Plot DATE: Nov '77

SHEET 1 OF 2

2 2562



250

20.00E 24.00E 28.00E 32.00E

36.00E 40.00E 44.00E 48.00E 52.00E 56.00E 60.00E 64.00E 68.00E 72.00E 76.00E 80.00E

84.00E 88.00E 92.00E 96.00E 100.00E

30N

20N

10N

BASE LINE

10S

30N

20N

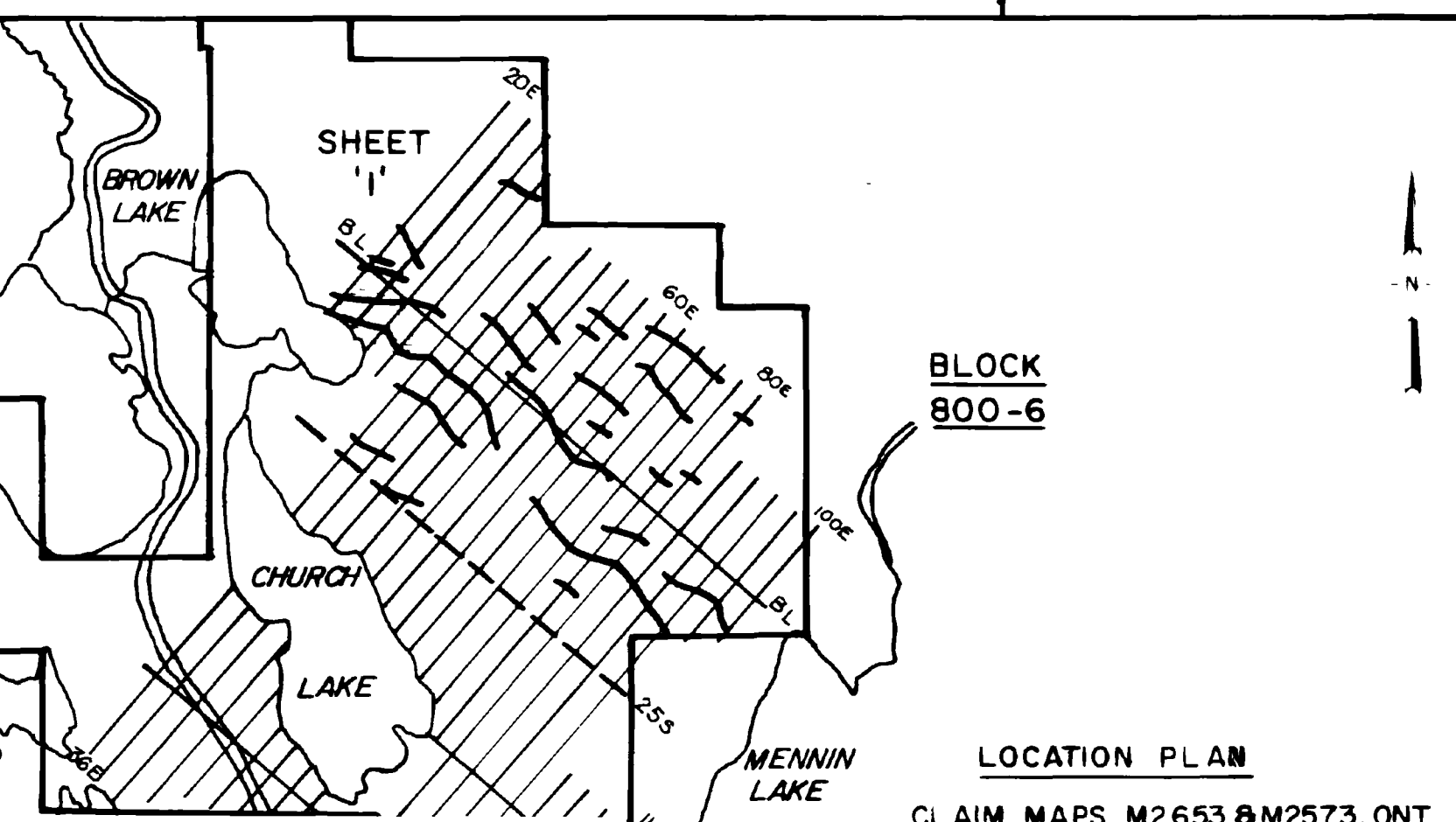
10N

BASE LINE AZ 127°

10S

BROWN LAKE

ELECTROMAGNETIC INSTRUMENT
 TYPE: APEX MAX-MIN II
 HORIZONTAL LOOP (Percent of Primary Field)
 Frequency: 1777 Hz.
 Cable Length: 400'
 In Phase: Out of Phase
 Quadrature:
 Conductor Width:
 Profile Scale: 1" = 20%



NOTE REFER TO B0.2296 — MAG.
B0.2317 — GEOLOGY



SELCO MINING CORPORATION
(EXPLORATION DIVISION) LIMITED

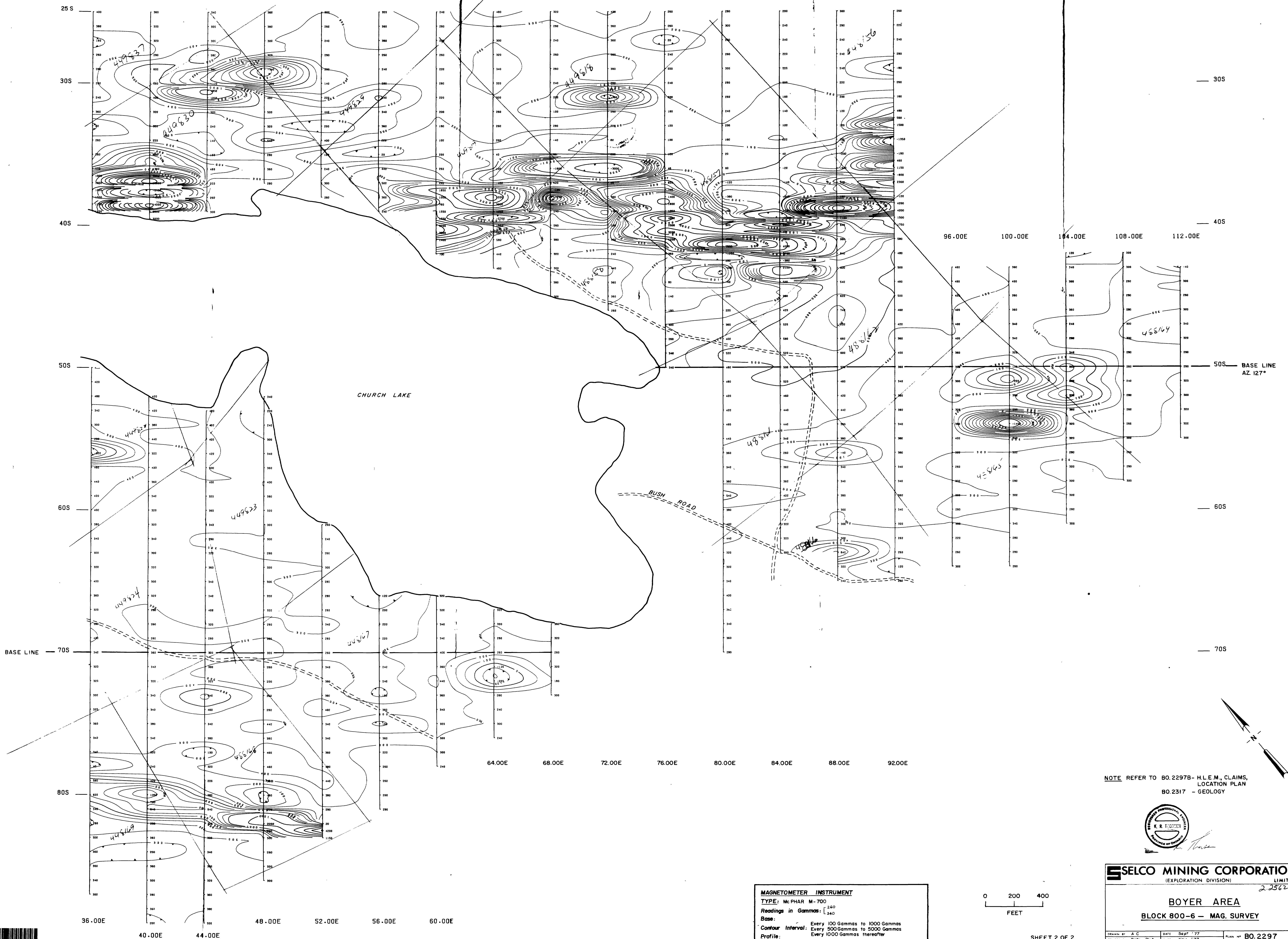
BOYER AREA
BLOCK 800-6 — H.L.E.M. SURVEY

DRAWN BY: A.C. DATE: Sep 77
TRACED BY: Data Pgr. DATE: Nov 77
PLAN NO: B0.2296B

0 200 400
FEET

SHEET 1 OF 2

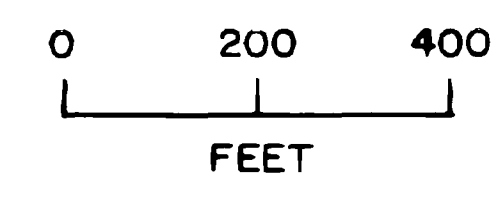
280



NOTE REFER TO B0.2297B - H.L.E.M., CLAIMS, LOCATION PLAN B0.2317 - GEOLOGY

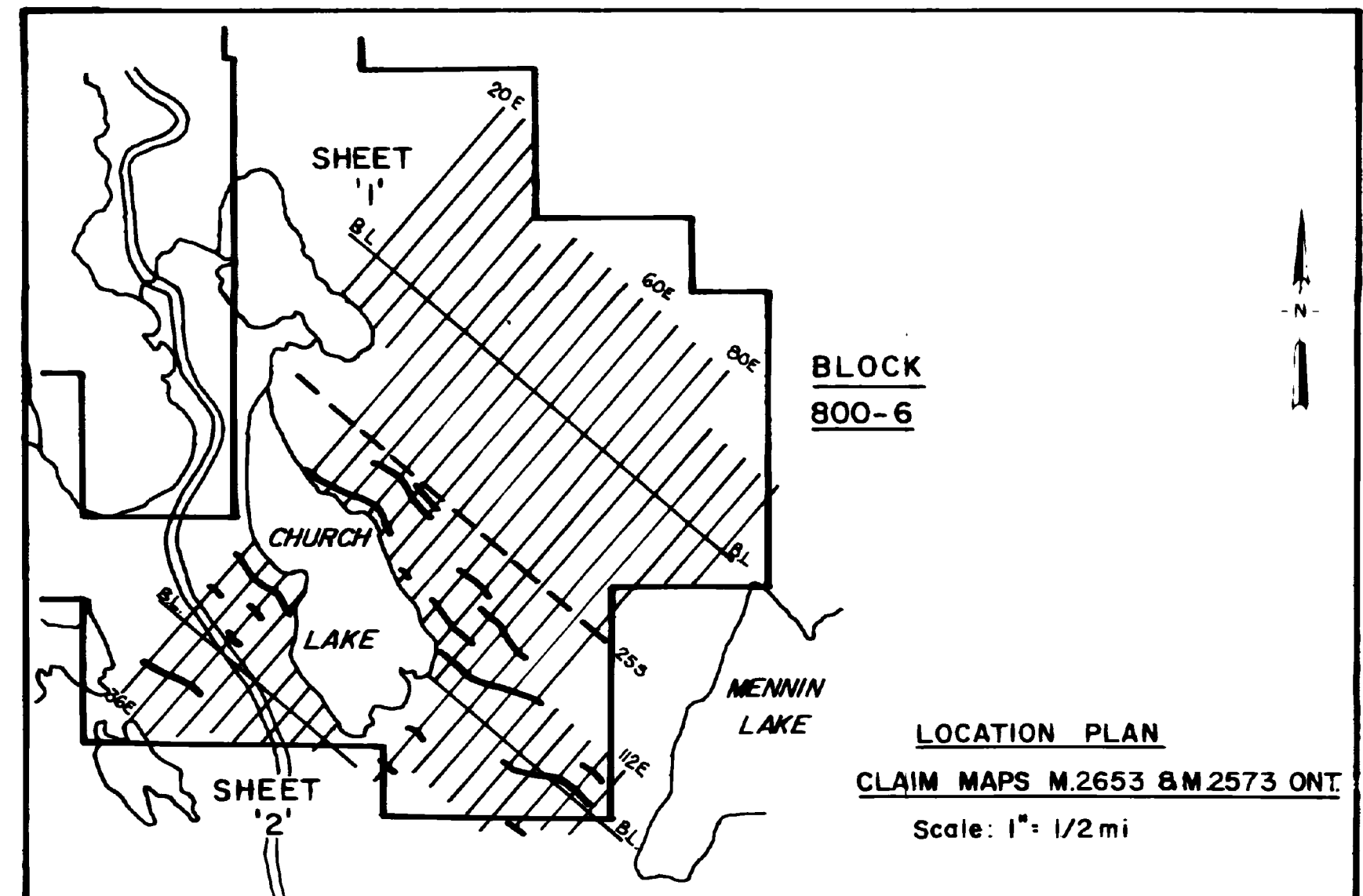
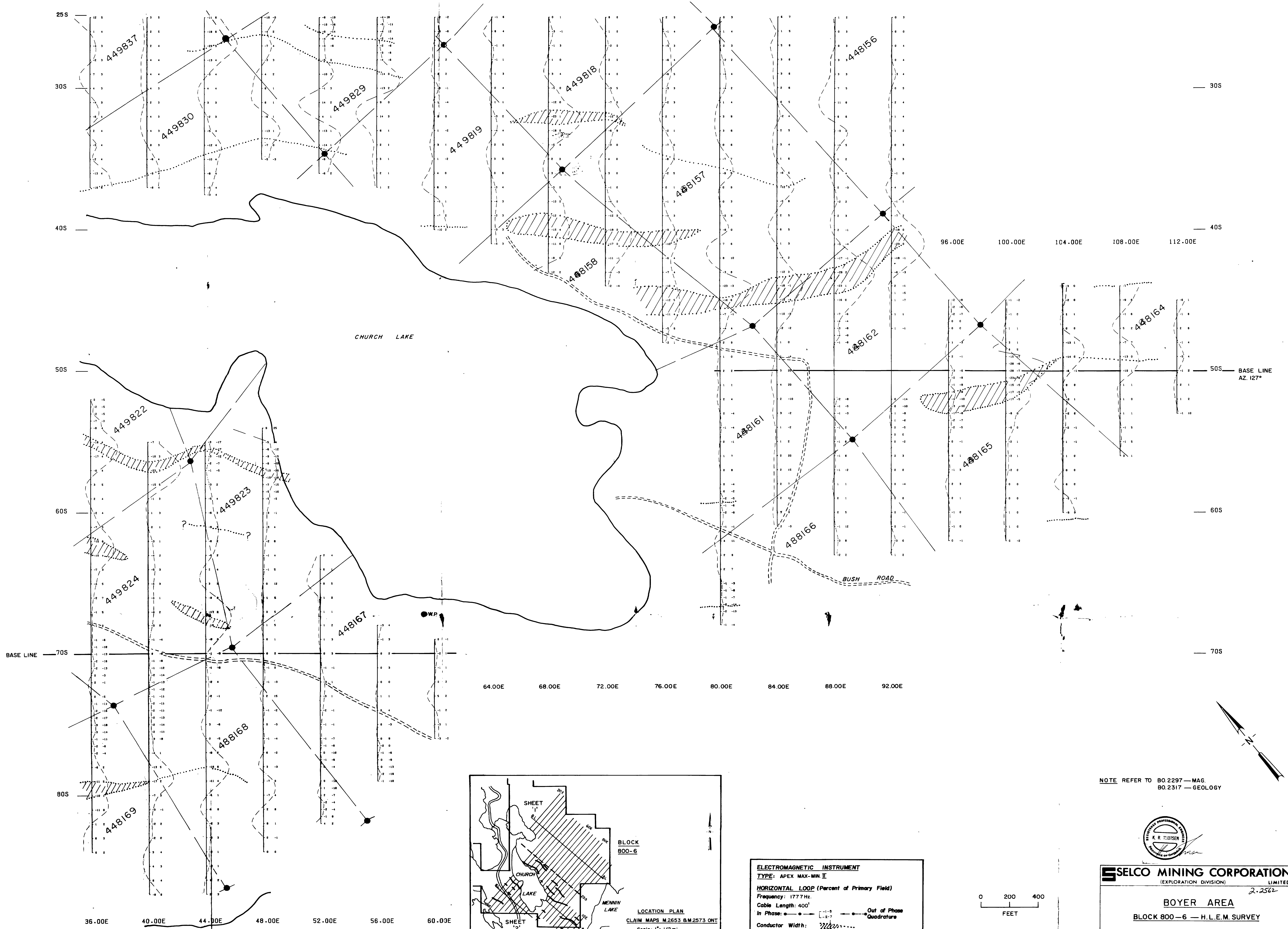


MAGNETOMETER INSTRUMENT
 TYPE: Mc PHAR M-700
 Readings in Gammas: L 340
 Base:
 Contour Interval: Every 100 Gammas to 1000 Gammas
 Every 500 Gammas to 5000 Gammas
 Every 1000 Gammas thereafter
 Profile:

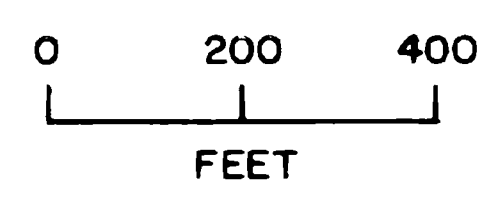


SELCO MINING CORPORATION
 (EXPLORATION DIVISION) LIMITED
 2.2562
BOYER AREA
BLOCK 800-6 - MAG. SURVEY
 DRAWN BY: A.C. DATE: Sept '77
 TRACED BY: Data Plot DATE: NOV '77
 PLAN NO: B0.2297





ELECTROMAGNETIC INSTRUMENT
 TYPE: APEX MAX-MIN II
 HORIZONTAL LOOP (Percent of Primary Field)
 Frequency: 1777 Hz
 Cable Length: 400'
 In Phase:
 Conductor Width:
 Profile Scale: 1" = 20'



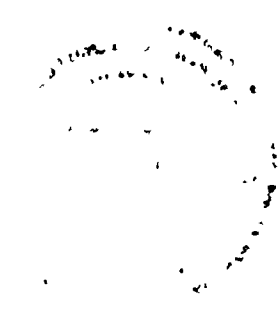
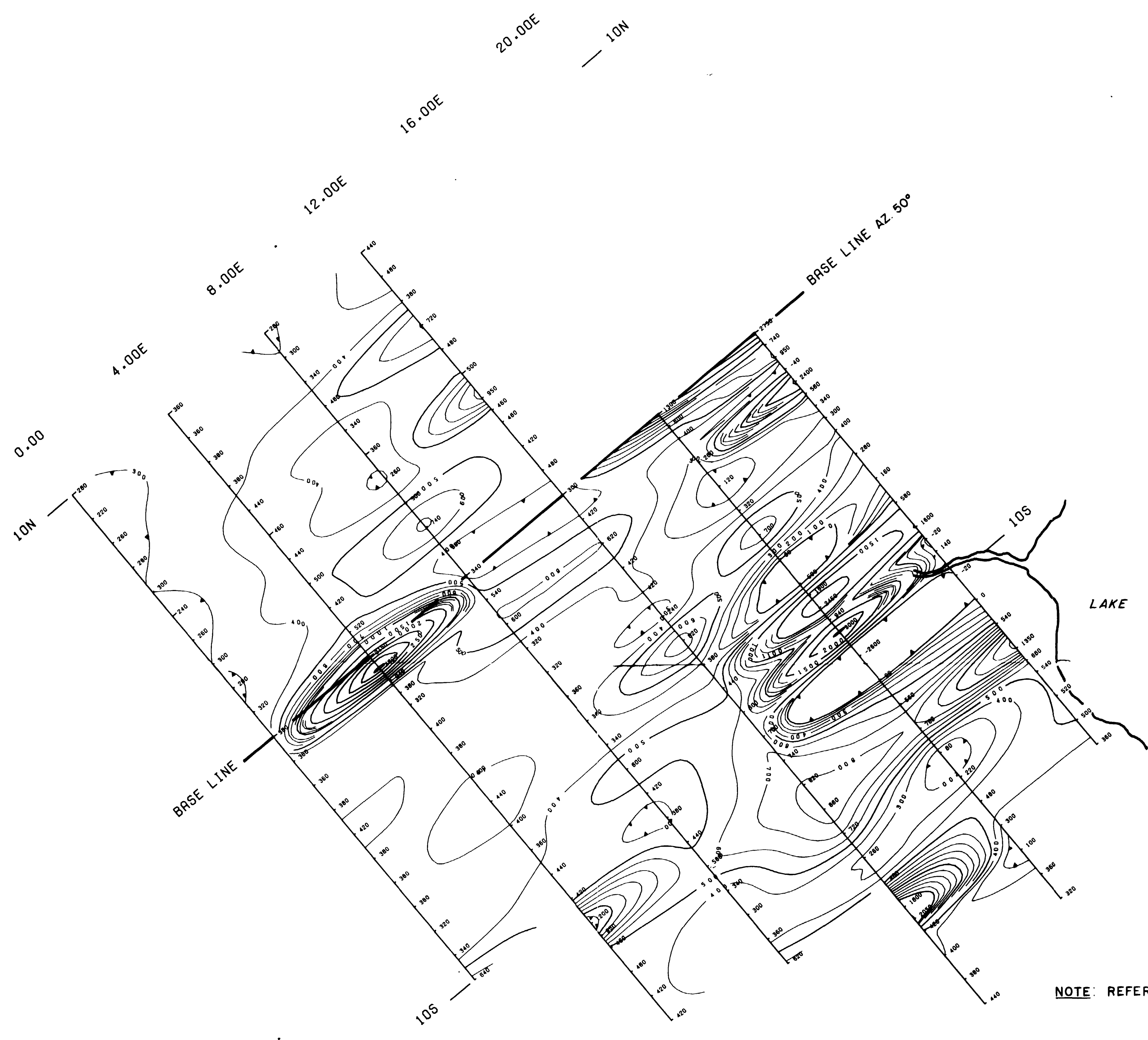
NOTE REFER TO BO.2297—MAG.
BO.2317—GEOLOGY



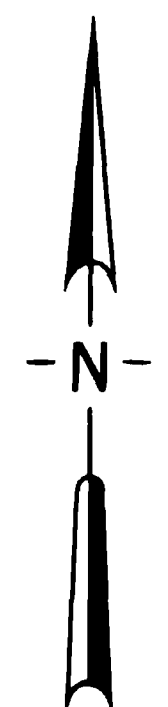
SELCO MINING CORPORATION
 (EXPLORATION DIVISION) LIMITED
 BOYER AREA
 BLOCK 800-6 — H.L.E.M. SURVEY

Drawn by: A.C. Date: Sept '77
 Traced by: Data Plot Date: Nov '77
 PLAN NO. BO.2297B

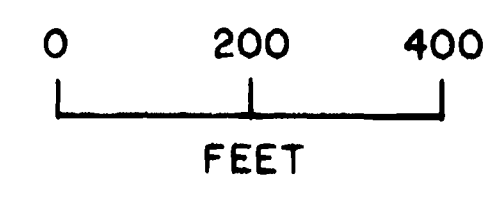




NOTE: REFER TO BO.2298B—H.L.E.M., CLAIMS,
LOC. PLAN.
BO.2318 — GEOLOGY

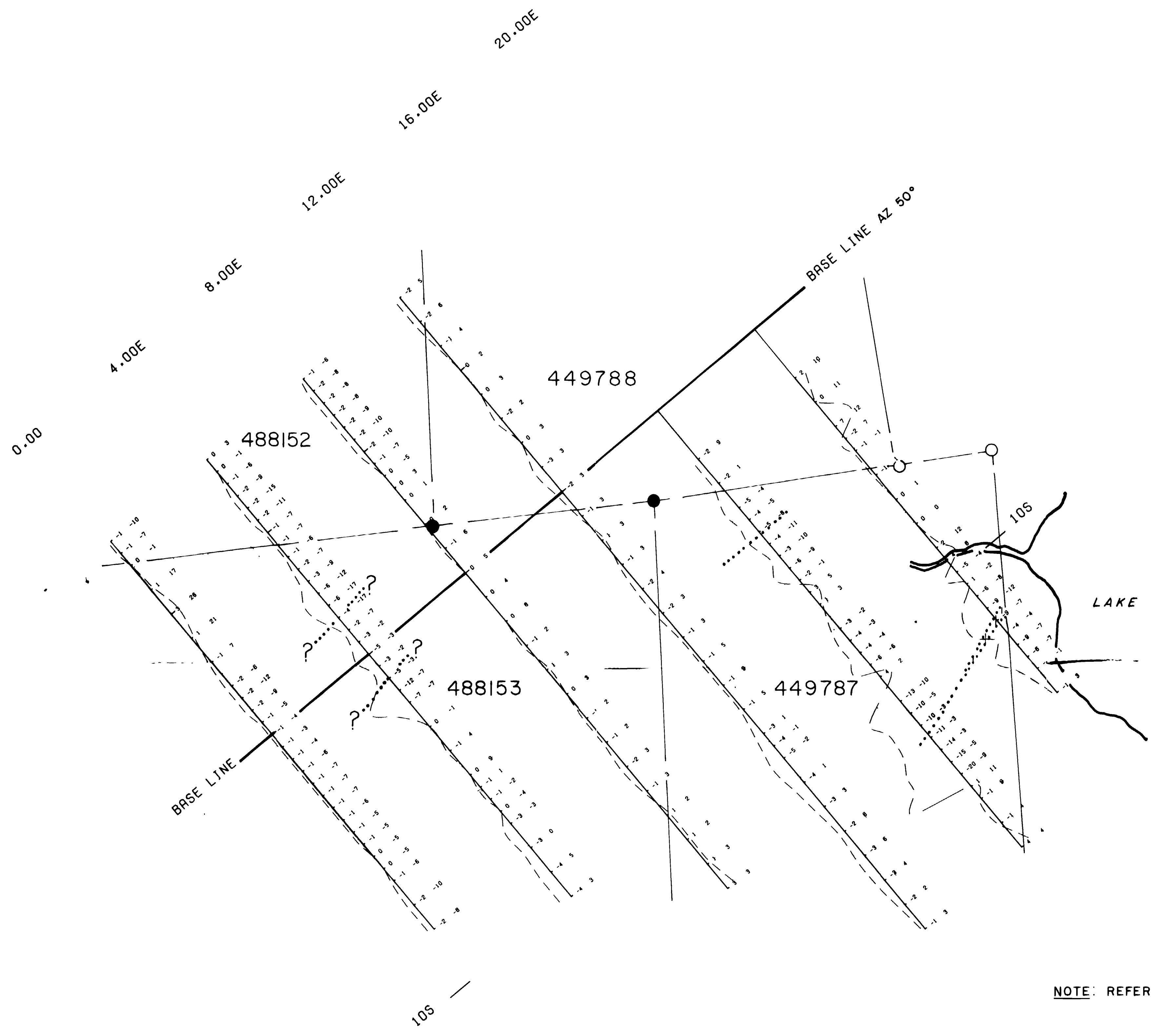


MAGNETOMETER INSTRUMENT
TYPE: McPHAR M-700
Readings in Gammas: $\begin{bmatrix} 340 \\ 600 \end{bmatrix}$
Base:
Contour Interval: Every 100 Gammas to 1500 Gammas
Profile: Every 500 Gammas thereafter

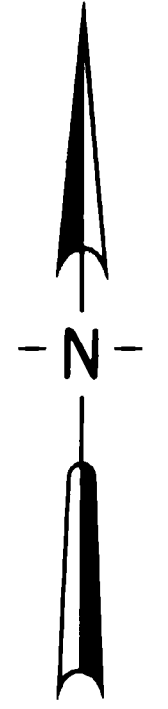


SELCO MINING CORPORATION		LIMITED	
(EXPLORATION DIVISION)		2.2562	
BOYER AREA			
BLOCK 800-7— MAG. SURVEY			
DRAWN BY	A.C.	DATE	Oct. '77
TRACED BY	Data Plot	DATE	Nov. '77
			PLAN NO BO.2298





NOTE: REFER TO BO. 2298 — MAG.
BO. 2318 — GEOLOGY



SELCO MINING CORPORATION (EXPLORATION DIVISION) LIMITED		
2-2562		
BOYER AREA		
BLOCK 800-7 — H.L.E.M. SURVEY		
DRAWN BY: A.C.	DATE: Sept '77	PLAN NO: BO. 2298B
TRACED BY: Data Plot	DATE: Nov '77	

BLOCK 800-7

LOCATION PLAN
CLAIM MAP M.2653, ONT.
Scale 1" = 1/2 mi.

ELECTROMAGNETIC INSTRUMENT
TYPE: APEX MAX-MIN II

HORIZONTAL LOOP (Percent of Primary Field)
Frequency: 1777 Hz
Cable Length: 400'

In Phase: ●●●●● [1 3] ●●●●● Out of Phase
Quadrature: [1 2] ●●●●●

Conductor Width:

Profile Scale: 1" = 20%

