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UCL 010 1974

PROJECT 011

REPORT ON  
MAGNETIC SURVEY

GOLD MIDDLE MINES INC.

SUMMERS TOWNSHIP BEARDMORE AREA ONTARIO

TORONTO, ONTARIO  
OCTOBER 15, 1974

ROSS KIDD, P.ENG.  
CONSULTING MINING ENGINEER

CLAIM DETAILS (CONT'D)

TB 370031 TO 370035, BOTH INCLUSIVE,  
TB 370039 AND 370040,  
TB 350543 AND 350544,  
TB 370764 AND 370765.

ALL THE CLAIMS ARE UNSURVEYED, AND ALL ARE HELD BY GOLD RIDGE MINES INC., WHICH COMPANY IS ALSO CARRYING OUT AND REPORTING THE MAGNETIC SURVEY.

THE MAGNETIC SURVEY WAS CARRIED OUT BETWEEN JULY 12TH AND SEPTEMBER 12TH, 1974, BY ROSS KIDD, CONSULTING MINING ENGINEER.

GENERAL GEOLOGY

THE PROPERTY IS ENTIRELY UNDERLAIN BY UNDIFFERENTIATED METAVOLCANICS OF ARCHEAN AGE, ACCORDING TO PRELIMINARY GEOLOGICAL MAP NO. P. 602 OF THE ONTARIO DEPARTMENT OF MINES, BY W. G. MACKASEY, 1969.

A REGIONAL DIABASE SILL LIES JUST EAST OF THE CLAIMS, WHILE THE REGIONAL CONTACT WITH METASEDIMENTS LIES JUST TO THE SOUTH.

THE FORMATIONAL ROCK TREND ON THE PROPERTY IS  $070^{\circ}$ , AND REGIONAL DIPS ARE VERTICAL OR NEARLY SO.

A GOLD-BEARING SHEAR ZONE PASSES THROUGH CLAIM TB 350544, AS SHOWN ON THE MAP BY MEANS OF THE MAIN PIT AND OTHER PITS AND TRENCHES. ANOTHER GOLD-BEARING ZONE PROBABLY EXISTS ON THE NORTHEAST CLAIM TB 370033, WHERE OTHER PITS AND TRENCHES ARE SHOWN ON THE MAP.

PREVIOUS WORK

IT IS OBVIOUS THAT CONSIDERABLE TRENCHING AND PITTING HAS BEEN DONE ON THE CLAIMS.

ONE DIAMOND DRILL HOLE CASING PIPE WAS SEEN, ON CLAIM TB 370039 IN THE FOUR-CLAIM GROUP.

NO OLD PICKET LINES OR BASE LINES WERE NOTED DURING THE PRESENT SURVEY.

RESULTS OF MAGNETIC SURVEY

A GOOD MANY SMALL AND SEPARATED MAGNETIC HIGHS AND LOWS WERE OUTLINED BY THE SURVEY. MOST OF THESE SMALL FEATURES SEEM TO LINE UP ALONG TWO PARALLEL MAGNETIC TREND LINES, WHICH ARE SHOWN ON THE MAP AS TREND LINES "A" AND "B". THE TWO TREND LINES HAVE A DIRECTION OF  $072^{\circ}T$ , WHICH IS ALSO THE REGIONAL STRIKE OF THE UNDERLYING ROCK FORMATIONS.

THE PITS AND TRENCHES ON THE KNOWN GOLD-BEARING SHEAR ARE ALL LOCATED WITHIN THAT AREA LYING BETWEEN THE TWO TREND LINES.

IT IS INTERESTING TO NOTE THAT THE TRENCHES ON NORTH-EAST CLAIM TB 370033 ARE ALSO LOCATED BETWEEN TWO MAGNETIC HIGHS, ALTHOUGH THE MAGNETIC DATA HERE IS ON THE MEAGRE SIDE.

SOME OF THE MAGNETIC FEATURES LOCATED OUTSIDE OF THE TWO TREND LINES HAVE A STRIKE DIRECTION OF  $050^{\circ}T$ , WHICH MAY THEREFORE REPRESENT ANOTHER DIRECTIONAL TREND IN THE AREA.

## GEOCHEMICAL RESULTS

THE KNOWN GOLD-BEARING SHEAR ZONE CONTAINS APPRECIABLE ARSENOPYRITE.

A FEW SOIL SAMPLES WERE TAKEN ACROSS THE ZONE AND ANALYZED FOR ARSENIC, TO LEARN WHETHER THIS MIGHT RESULT IN A SOIL ANOMALY USEFUL IN FOLLOWING THE ZONE.

THE RESULTS WERE POSITIVE, IN THAT THE ARSENIC VALUES AWAY FROM THE ZONE AVERAGED ABOUT 40 PPM, WHILE THOSE OVER THE ZONE RANGED FROM 340 PPM TO 5900 PPM.

AS SHOWN ON THE MAP, ONE SOIL TRAVERSE WAS TAKEN JUST WEST OF THE MAIN PIT, AND ANOTHER WAS RUN JUST WEST OF THE PIT AT THE SHORE OF THE SMALL LAKE ON CLAIM TB 350544.

IT SEEMS VERY LIKELY THAT THIS METHOD WOULD BE USEFUL IN FOLLOWING THE SHEAR ZONE THROUGH OVERBURDENED AREAS.

## CONCLUSIONS

1. THE DETAILED MAGNETIC SETTING OF THE PROPERTY HAS BEEN ESTABLISHED. THIS INFORMATION, TOGETHER WITH THE PICKET LINE GRID, SHOULD BE HELPFUL AS A BASIS FOR FURTHER WORK.
2. TWO MAGNETIC TREND LINES ARE INTERPRETED, HAVING THE REGIONAL ROCK DIRECTION, AND ENCLOSING THE KNOWN GOLD ZONE.
3. INITIAL GEOCHEMICAL RESULTS SUGGEST THAT ARSENIC SOIL SAMPLING COULD BE USEFUL IN EXPLORING THE GOLD ZONES.

## INTRODUCTION

THE PROPERTY OF GOLD RIDGE MINES INC. LIES ABOUT ONE MILE EAST OF THE TOWN OF BEARDMORE IN NORTHWESTERN ONTARIO. TWO GOLD-BEARING ZONES ARE KNOWN TO EXIST ON THE PROPERTY, AND THESE ZONES WERE INVESTIGATED BY PITS AND TRENCHES DURING THE 1930'S AND 1940'S.

A MAGNETIC SURVEY WAS CARRIED OUT ON THE CLAIMS DURING THE SUMMER OF 1974, AS A FIRST STEP IN A NEW EXPLORATION PROGRAM FOR GOLD DEPOSITS. THE RESULTS OF THE SURVEY ARE DEPICTED ON THE MAP WHICH ACCOMPANIES THIS REPORT.

## ACCESS TO PROPERTY

THE TOWN OF BEARDMORE LIES ON THE TRANS-CANADA HIGHWAY (NORTHERN ROUTE) ABOUT 120 MILES NORTHEAST OF THE CITY OF THUNDER BAY. BEARDMORE IS ALSO ON THE LONG LAG TO THUNDER BAY LINE OF THE CANADIAN NATIONAL RAILWAY, AND ON THE TRANS-CANADA GAS PIPELINE. SCHEDULED AIR SERVICE TO AND FROM THUNDER BAY IS AVAILABLE AT JELlicOE, SOME 20 MILES TO THE EAST.

THE GOLD RIDGE PROPERTY IS EASILY REACHED FROM BEARDMORE BY AN OLD ROAD, SHOWN ON THE MAP.

## CLAIM DETAILS

THE PROPERTY IS MADE UP OF 11 MINING CLAIMS; IN ONE GROUP OF SEVEN CLAIMS AND A SEPARATED GROUP OF FOUR, AS SHOWN ON THE ACCOMPANYING MAP. THE CLAIM NUMBERS ARE:

*Ross Kidd*

TORONTO, ONTARIO  
OCTOBER 15, 1974

ROSS KIDD, P.ENG.  
CONSULTING MINING ENGINEER

SOURCES OF INFORMATION

1. PRELIMINARY GEOLOGICAL MAP NO. P. 602, "SUMMERS TOWNSHIP",  
BY W. O. MACKASEY, ONTARIO DEPARTMENT OF MINES, 1969.
2. CLAIM PLAN NO. M-1905, ONTARIO MINISTRY OF NATURAL RESOURCES.
3. MAP NO. 3, "MAP SHOWING GEOLOGY", GOLD RIDGE MINES INC.,  
BY O. F. CARTER, P.ENG., AUGUST 20, 1973.

A P P E N D I X O N E

METHOD OF SURVEY (MAGNETIC)

A PICKET LINE GRID WAS CUT ACROSS THE REGIONAL ROCK TRENDS, CONTROLLED FROM ONE BASE LINE. PICKET LINE SPACING WAS 300 FEET, AND PICKETS WERE ESTABLISHED AT 100 FOOT INTERVALS ALONG THE PICKET LINES.

READINGS WERE THEN TAKEN, IN GAMMAS, OF THE VERTICAL COMPONENT OF THE EARTH'S MAGNETIC FIELD (NON-ABSOLUTE), BY MEANS OF A SCINTREX MF-2 FLUXGATE MAGNETOMETER. READINGS WERE TAKEN AT 50 FOOT INTERVALS ALONG THE PICKET LINES.

TOTAL BASE LINE AND PICKET LINE MILEAGE WAS 11.5 MILES. 1200 MAGNETIC READINGS WERE TAKEN AND PLOTTED ON THE MAP. ALL READINGS WERE CORRECTED FOR DIURNAL AND DAY-TO-DAY EFFECTS BEFORE PLOTTING. THE INSTRUMENT WAS CHECKED INTO THE MAGNETIC CONTROL POINT SHOWN ON THE MAP AT THE WEST BOUNDARY OF THE PROPERTY AT LEAST FIVE TIMES DAILY.

METHOD OF SURVEY (GEOCHEMICAL)

TEN SOIL SAMPLES FROM THE "B" SOIL HORIZON WERE TAKEN ALONG UN CUT LINE 5165'E JUST WEST OF THE MAIN PIT. ANOTHER THREE SIMILAR SAMPLES WERE TAKEN ALONG LINE 60E JUST WEST OF THE OTHER PIT. ALL THE SAMPLES WERE AT 25' INTERVALS.

A COPY OF THE ANALYSES OF THESE SAMPLES FOR ARSENIC (IN PARTS PER MILLION) FOLLOWS AS APPENDIX TWO.

THESE RESULTS ARE ALSO PLOTTED ON THE MAP.

APPENDIX TWO

# X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

## Certificate of Analysis

NO. 727 PAGE

TO. Mr. Ross Kidd,  
81 Highbourne Road,  
Toronto, Ont. M5P 2J3.

RECEIVED Oct. 7/74

INVOICE NO. 727

SAMPLE(S) OF 13 Soil

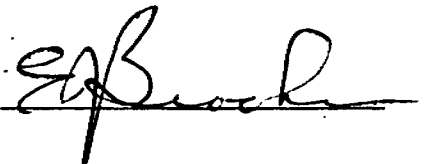
SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

<u>Sample</u>	<u>As ppm</u>
1	22
2	6
3	21
4	5900
5	3650
6	63
7	26
8	57
9	54
10	18
11	62
12	59
13	340

X-RAY ASSAY LABORATORIES LIMITED

DATE Oct. 11/74

CERTIFIED BY





ASSESSMENT WORK DETAILS



42E12SW0090 2.1608 SUMMERS

900

Type of Survey MAGNETIC

A separate form is required for each type of survey

Township or Area SUMMERS TWP., BEARDMORE A

Chief Line Cutter or Contractor MICHAEL SMITH  
Name

THUNDER BAY, ONTARIO  
Address

Party Chief ROSS KIDD  
Name

81 HIGHBOURNE ROAD, TORONTO  
Address

Consultant ROSS KIDD  
Name

81 HIGHBOURNE ROAD, TORONTO  
Address

Geological field mapping by \_\_\_\_\_  
Name

Address

COVERING DATES

Line Cutting JULY 12TH TO SEPTEMBER 1, 1974

Field SEPTEMBER 1 TO 12TH, 1974  
Instrument work, geological mapping, sampling etc.

Office OCTOBER 10-15, 1974

INSTRUMENT DATA

Make, Model and Type SCINTREX MF-2 FLUXGATE MAGNETOMETER

Scale Constant or Sensitivity 10 GAMMAS

Or provide copy of instrument data from Manufacturer's brochure.

Radiometric Background Count \_\_\_\_\_

Number of Stations Within Claim Group 607

Number of Readings Within Claim Group 1200

Number of Miles of Line cut Within Claim Group 11.5

Number of Samples Collected Within Claim Group \_\_\_\_\_

CREDITS REQUESTED

20 DAYS  
per claim

40 DAYS  
per claim

----- Includes  
(Line cutting)

Geological Survey

Geophysical Survey

Show  
Check /

Geochemical Survey

DATE Oct. 28/74 SIGNED Ross Kidd

MINING CLAIMS TRAVERSED

- TB 37000
- TB 37001
- TB 37002
- TB 37003
- TB 37004
- TB 37005
- TB 37006
- TB 37007
- TB 37008
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- TB 37098
- TB 37099
- TB 37100

TOTAL CLAIMS 11

Send in Duplicate to:  
FRED W. HAYES  
SUPERVISOR, PROJECT SECTION  
DEPARTMENT OF MINES &  
NORTHERN AFFAIRS  
WILSON BLVD.  
QUEENSWAY  
TORONTO, ONTARIO

RECEIVED

OCT 20 1974

by hand  
PROJECTS UNIT

If space insufficient, attach list

## SUBMISSION OF GEOLOGICAL, GEOPHYSICAL AND GEOCHEMICAL SURVEYS

### AS ASSESSMENT WORK

In order to simplify the filing of geological, geophysical and geochemical surveys for assessment work, the Minister has approved the following provisions under Section 86 (10) of the Ontario Mining Act. This special provision does not apply to airborne geophysical surveys.

If, in the opinion of the Minister, a ground geophysical survey meets the requirements prescribed for such a survey, including:

- (a) substantial and systematic coverage of each claim
- (b) line spacing not exceeding 400 foot intervals
- (c) stations not exceeding 100 foot intervals or
- (d) the average number of readings per claim not less than 40 readings

it will qualify for a credit of 40 assessment work days for each claim surveyed. It will not be necessary for the applicant to furnish any data or breakdowns for the persons employed in the survey except for the names and addresses of the persons of the various phases (linecutting contractor, etc.). It will be assumed that the number of man days were spent in producing the survey to qualify for the specified credit.

Each additional ground geophysical survey using the same grid system and otherwise meeting these requirements will qualify for an assessment work credit of 20 days.

A geological survey using the same grid system and meeting the requirements for submission of geological surveys for maximum credits will qualify for an assessment work credit of 20 days. If line cutting has not previously been reported for the survey and is reported in conjunction with the geological survey a credit of 40 days per claim will be allowed for the survey.

Similarly, a geochemical survey using the same grid system with the average number of collected samples per claim being not less than 40 per claim and meeting the requirements for the submission of geochemical surveys for maximum credits will qualify for an assessment work credit of 20 days. If line cutting has not previously been reported with any other survey and is reported in conjunction with the geochemical survey a credit of 40 days per claim will be allowed for the survey.

Credits for partial coverage or for surveys not meeting requirements for full credits will be granted on a pro-rata basis.

If the credits are reduced for any reason, a fifteen day notice of suspension will be issued. During this period, the applicant may apply to the Mining Recorder for relief if his claims are jeopardized for lack of work or, if he is unable to do so, to the Department, normal assessment work breakdowns being the basis of the breakdown and the dates of work. The survey would then be re-assessed to determine if the credits may be allowed under the provisions of subsections 5 and 11 of section 86 of the Mining Act.

If new breakdowns are not submitted, the Performance and Coverage credits are confirmed to the Mining Recorder at the end of the fifteen days.

SANDRA TWP M-1880

THE TOWNSHIP OF  
OF  
**SUMMERS**

DISTRICT OF  
THUNDER BAY

THUNDER BAY  
MINING DIVISION

SCALE 1 INCH = 20 CHAINS

LEGEND

- PATENTED LAND
- CROWN AND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

NOTES

- 400' Surface Rights Reservation around all lakes and rivers.
- Township of Summers lies within Beardmore Improvement District.
- For status of subdivisions please contact Dept. of Lands & Forests.

MINING LANDS -  
DATE OF ISSUE  
OCT 30 1974  
MINISTRY OF NATURAL RESOURCES

M-1702 & M-1784  
EVA TWP

MCCOMBER TWP M-1802

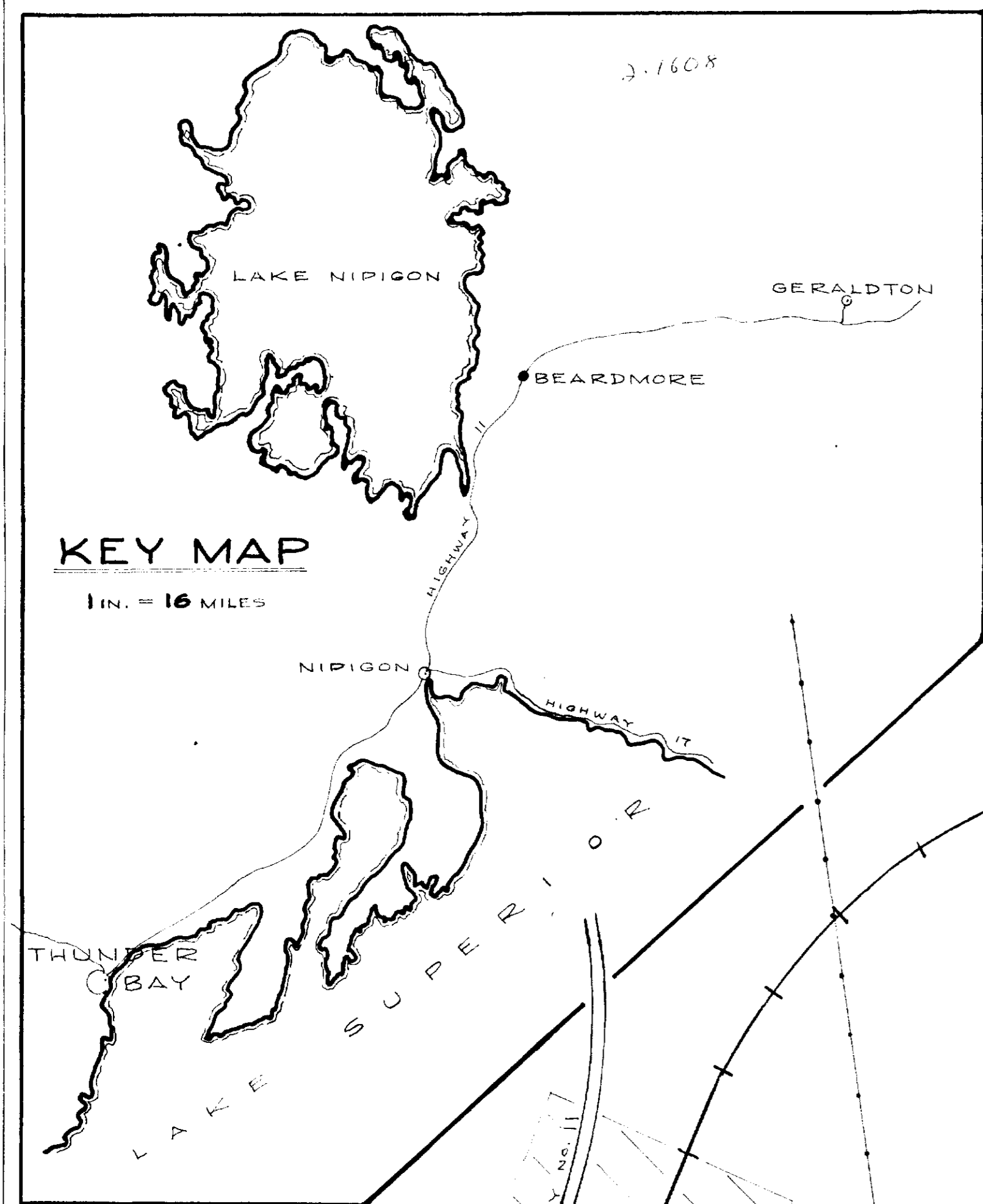
BEARDMORE AREA M-2498

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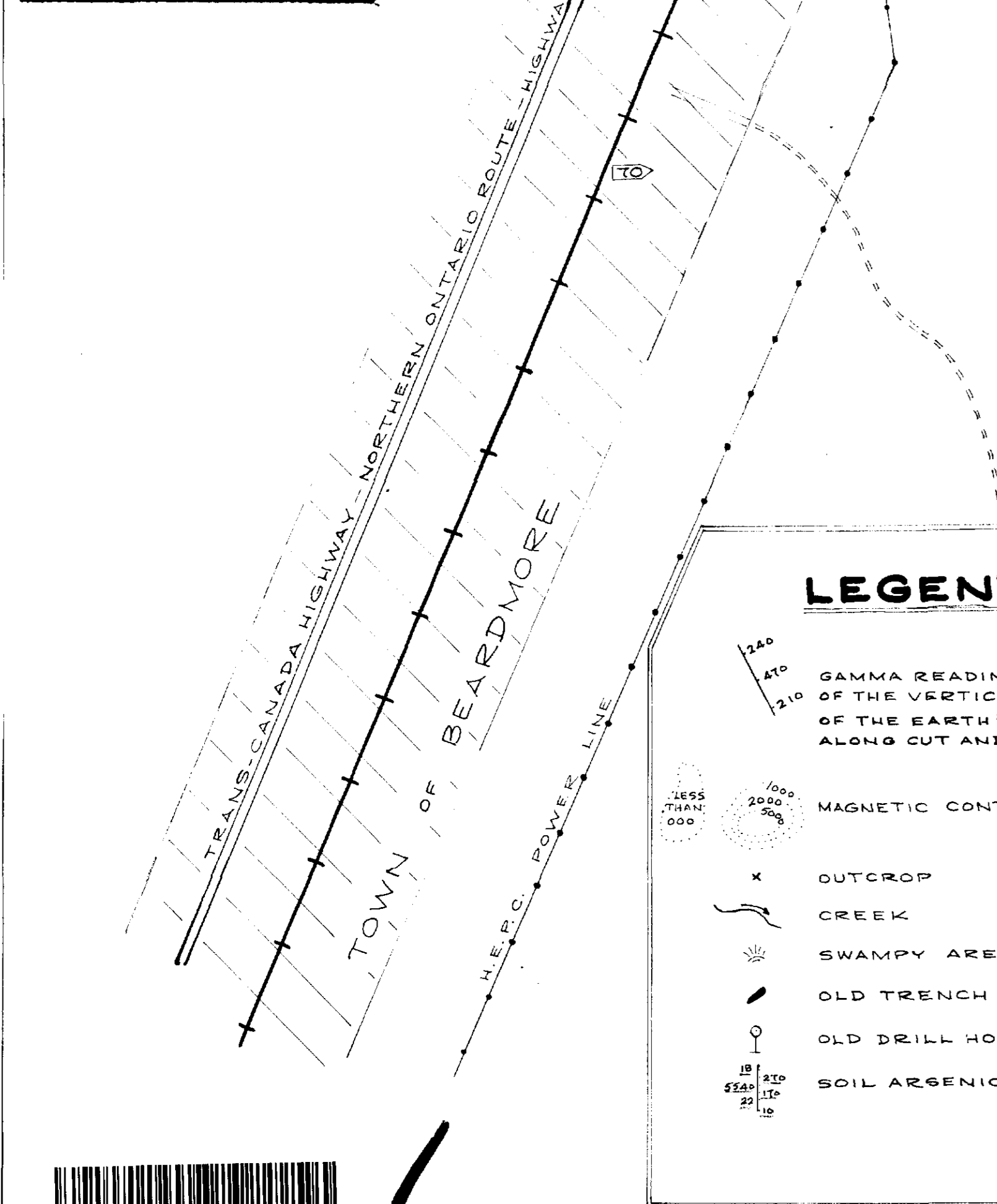
PLAN No. **M-1905**

MINISTRY OF NATURAL RESOURCES  
SURVEYS AND MAPPING BRANCH



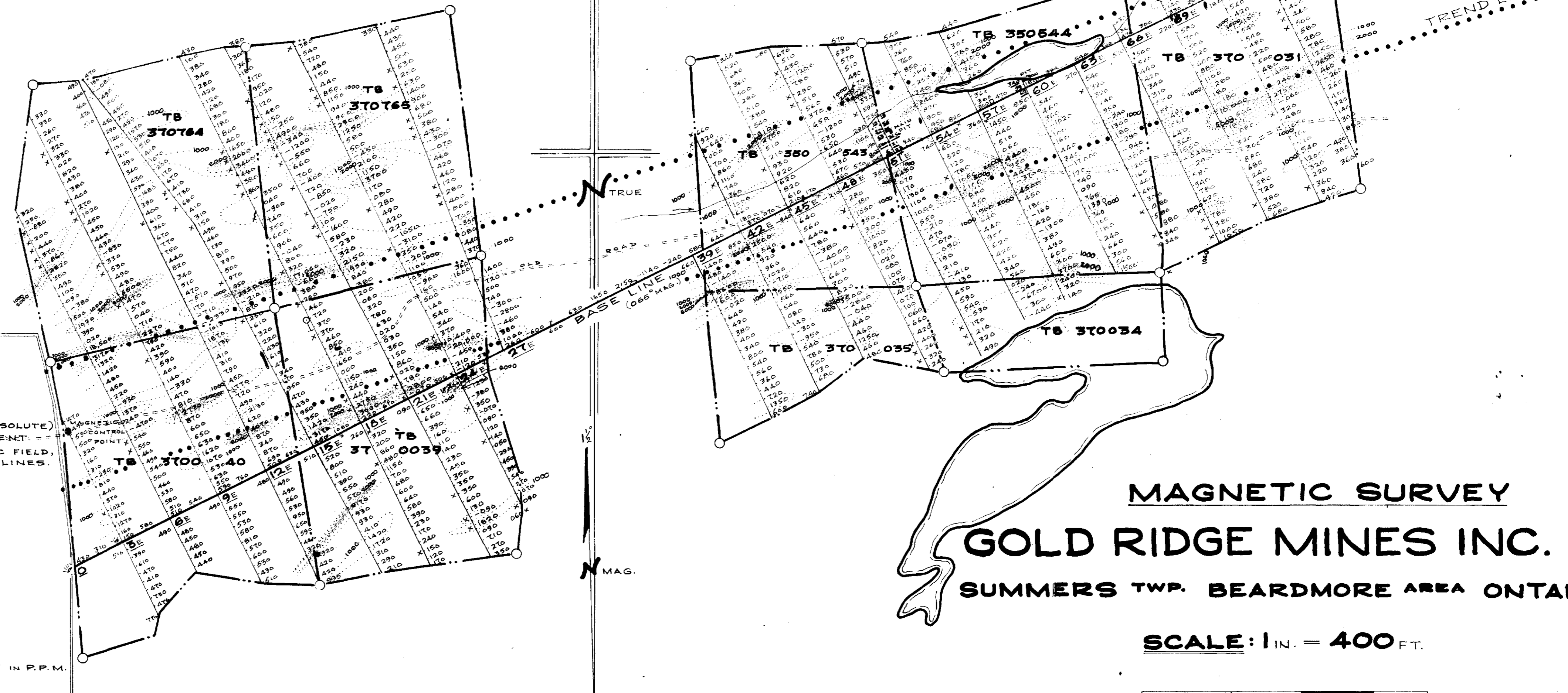


NTS 42 E 12



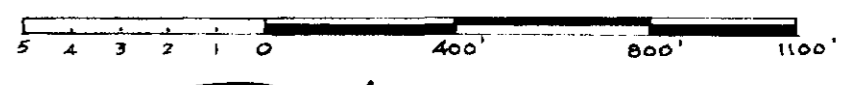
**LEGEND**

- GAMMA READINGS (NON-ABSOLUTE) OF THE VERTICAL COMPONENT OF THE EARTH'S MAGNETIC FIELD, ALONG CUT AND PICKETED LINES.
- MAGNETIC CONTOURS
- OUTCROP
- CREEK
- SWAMPY AREA
- OLD TRENCH OR PIT
- OLD DRILL HOLE
- SOIL ARSENIC CONTENT IN P.P.M.



**MAGNETIC SURVEY**  
**GOLD RIDGE MINES INC.**  
 SUMMERS TWP. BEARDMORE AREA ONTARIO

SCALE: 1 IN. = 400 FT.



*Ron Kidd* ROSS KIDD  
CONSULTING MINING ENGINEER

SEPTEMBER, 1974

2.1608

