



41P09NE0036 2.8294 BRYCE

010

MAGNETOMETER AND VLF-EM REPORT
CLAIMS 800614 to 800617 inclusive
BRYCE TOWNSHIP, DIST. of TIMISKAMING
LARDER LAKE MINING DIVISION, ONTARIO.

J. Bankowski, B.Sc.,
GEOLOGIST
JULY, 1985.

RECEIVED
JUL 22 1985
MINING LANDS SECTION



PAGE

CONTENTS

1	.....	INTRODUCTION
1	.....	PROPERTY DESCRIPTION
1	.....	LOCATION AND ACCESS
1	.....	HISTORY OF EXPLORATION
2	.....	CLAIM LOCATION MAP
3	.....	HISTORY OF EXPLORATION CONT.
3	.....	GENERAL GEOLOGY
4	.....	GENERAL GEOLOGY CONT.
4	.....	GEOPHYSICAL SURVEYS
5	.....	GEOPHYSICAL SURVEYS CONT.
6	.....	FIG. 1, VLF-EM PLAN
7	.....	FIG. 2, MAGNETOMETER PLAN
8	.....	GEOPHYSICAL SURVEYS CONT.
9	.....	CONCLUSIONS AND RECOMMENDATIONS
10.	.....	REFERENCES
11.	.....	CERTIFICATE

INTRODUCTION

A program of linecutting, VLF-EM and magnetometer surveying was conducted on the property during the period March 22 to 29, 1985. Grid spacing is 400 feet between lines with stations every 100 feet along the lines. A total of 5.13 miles of line was cut to cover the property.

PROPERTY DESCRIPTION

The property consists of four contiguous mining claims numbered 800614 to 800617 inclusive, all located in Bryce Township, Larder Lake Mining Division, District of Timiskaming, Ontario (Figure 1).

The claims are currently in good standing with the provincial mining recorder and are registered to Mr. James Moris residing in the town of Englehardt, Ontario.

LOCATION AND ACCESS

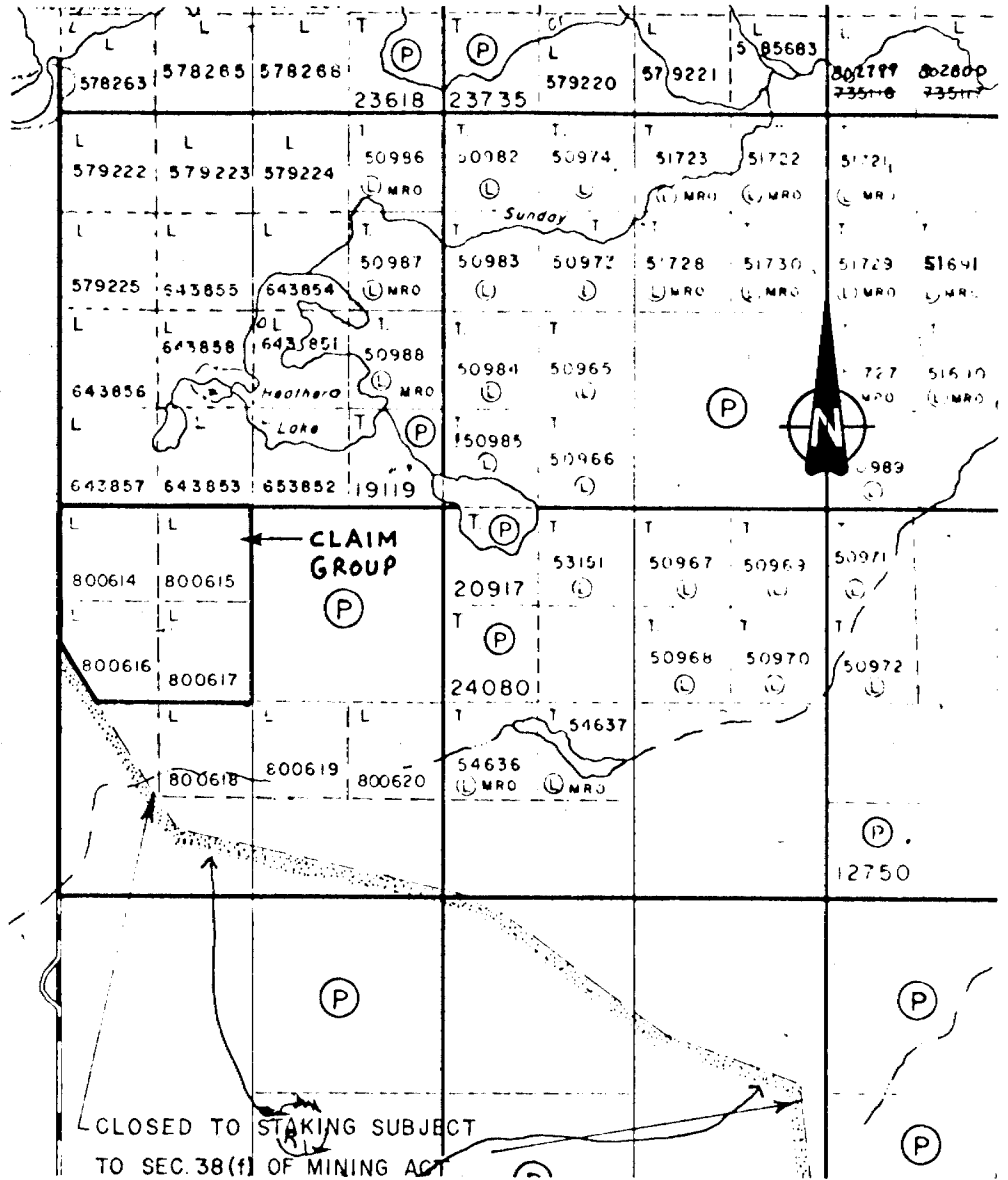
The property is located in the southwest portion of Bryce Township (see O.M.N.R. plan M-282).

Access to the property is easily attained via gravel road. The personnel involved in the surveys travelled to the work-site daily by motor vehicle.

HISTORY OF EXPLORATION

The area was opened up as a result of the influx of prospectors and mining men into the district of Timiskaming and the building of the T. and N.O. railway (Moorhouse, 1941). During the height of the Cobalt development it was prospected for silver and was traversed by the Gowganda trail, along which men and supplies reached the Gowganda camp.

TUDHOPE TWP.



CLAIM LOCATION MAP

*after O.M.N.R. PLAN No. M-282

Scale: 1" = 2,640'

J. Bamkowski

HISTORY OF EXPLORATION CONT.

Up until 1922, some gold mineralization had been discovered, but active prospecting for gold was carried on until the late twenties. At this time an aggressive campaign of prospecting was instituted by George Tough on a large block of ground in the eastern part of Tudhope Township and the western part of Bryce Township. Some work was also done by the Aladdin Syndicate in the northwestern portion of Bryce Township. Following this, there was a lull in prospecting activity. In 1934 interest was again aroused in the area by the discovery of native gold on the farm of Frederick Estival in Bryce Township. In the following years the development of the Britcana property and the discovery of the Briscoe, the Libby, and many others resulted in considerable activity in the area. In 1937 and 1938, interest in the area lagged, and by 1940, practically no prospecting was being carried on.

GENERAL GEOLOGY

The rocks exposed in the area include Keewatin lavas, pyroclastics and intrusives, which are cut by granites of Algonian age and their associated dikes (Moorhouse, 1941). Overlying both these types are conglomerates, slates and quartzites of Cobalt age. These Cobalt sediments are cut by sills of the Nipissing diabase.

The claim group itself is underlain mainly by Archean mafic to intermediate volcanics and is cut by intrusive dikes composed of felsite and diabase in the northwestern portion of the claim group which are of Algonian, Matachewan, and Keweenawan ages.

GENERAL GEOLOGY CONT.

TABLE OF FORMATIONS

QUATERNARY

Pleistocene: Clay, sand, gravel.

PRE-CAMBRIAN

Keeweenawan: Nipissing quartz diabase sill.
Diabase dikes (may be in part Matachewan).

Cobalt: Conglomerate, slate and quartzite (arkosic).

Matachewan: Diabase dikes.

Algoman: Lamprophyre dikes.
Quartz porphyry, quartz-feldspar porphyry,
feldspar porphyry, albitite, aplite.
Granite, granodiorite, pegmatite.
Diorite, amphibolite, other hybrid rocks.

Keewatin: Gabbroic intrusives (Haileyburian?)
Intermediate and acid flows and volcanics:
andesite, dacite, some light-weathering
basic lavas, quartz-feldspar porphyries,
rhyolite, tuff, agglomerate, carbonate schist,
hornblende schists.
Iron formation.

GEOPHYSICAL SURVEYS

A - VLF-EM Survey: A total of 251 readings were taken using a Geonics EM-16 on the property. Cutler, Maine (24.0 KHz) was used as the primary transmitter for the survey and the readings were all taken facing north.

Three conductors were outlined on the property. The strongest conductor is located at LOE-0+50S and has a maximum amplitude of +35 percent. This conductor is short and was only outlined at this one location. Another weak, one-station conductor was outlined at L16E-5+50N. The third conductor is quite long with a total

GEOPHYSICAL SURVEYS CONT.

A - VLF-EM Survey cont.: length of about 2000 feet but is quite weak with a maximum amplitude of +17 percent. This conductor crosses L12E-1N, L16E-2+30S, L20E-0+30N, L24E-2+70S, and L28E-2+40S respectively (Figure 2).

B - Magnetometer Survey: A total of 250 readings were taken in the magnetic survey using a geoMetrics G-816 portable proton magnetometer on the 60K gamma scale. The lines were read in loops with tie-ins at the starting points of the loops to correct for diurnal drift.

In general, the west and eastern portions of the claim group have varied magnetic backgrounds while the central portion of the claim group is relatively magnetically flat.

The highest reading obtained during the survey was obtained at L0E-3S with 60,031 gammas. This reading is in an area of relatively high magnetic background about 1,600 feet long and 400 feet wide and trends about due east-west (Figure 3). The northwestern portion of the property is also relatively magnetically high with a high of 59,831 gammas at LoE-10N. Another magnetic high of 59,721 gammas was obtained at L28E-3S in the east-central portion of the property. These areas of relatively high magnetic background likely represent areas of mafic volcanics or tuff. Pronounced high magnetic linears indicative of diabase dikes with a high magnetite content are not obvious although some of the magnetic highs could be caused by dikes.

Areas of relatively low magnetic relief occur mainly in the central portion of the claim group. These areas are generally small and occur over only one station. The lowest value obtained during the survey was at L20E-1N with a value of 58,113 gammas.

GEOPHYSICAL SURVEYS CONT.

B - Magnetometer Survey cont.: Larger areas of low magnetic relief were obtained at L32E-5S & 8S over 2 and 4 stations respectively.

The central portion of the claim group has a relatively low magnetic background and is likely underlain by a relatively acid rock such as andesite or pyroclastic rocks. The areas of lowest magnetic relief could be due to alteration effects such as carbonitization, sericitization and pyritization.

CONCLUSIONS AND RECOMMENDATIONS

The strongest VLF conductor was outlined over one station at LOE-0+50S within an area of high magnetic relief. A weak VLF conductor located at L16E-5+50N lies just south of an area of low magnetic relief. A long, weak VLF conductor was outlined in the central part of the property and is generally associated with areas of high magnetic relief although the central portion of the conductor passes through an area of low magnetic relief.

It is recommended that all the VLF conductors be examined visually on the property. As previously mentioned, areas of low magnetic relief could be due to alteration of the rock and may be closely related to gold mineralization. In this respect, the co-incident VLF conductor-magnetic low at L20E-0+30N should be closely examined. The short, strong VLF conductor at LOE-0+50S should also be examined closely.

REFERENCES

Moorhouse, W.W.
1941: Geology of the Bryce-Robillard Area,
Ontario Department of Mines,
Vol. L, PART IV, 1941.

CERTIFICATE

I, Joseph H. Bankowski, do hereby certify:

1. that I am an exploration geologist residing at 811 Sweetwater Cres., Mississauga, Ontario;
2. that I am a graduate of the University of Western Ontario, London, Ontario, and hold a Bachelor of Science degree as a geologist dated 1980;
3. that I have been engaged in the practice of this profession since graduating;
4. that I have no interest, direct or indirect, nor do I expect to receive any such interest in the properties of Mr. James Moris.

Joseph H. Bankowski, B.Sc.

J. Bankowski

Geologist, July, 1985.



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



41P09NE0036 2.8294 BRYCE

900

(File L 800614) The Minin

Type of Survey(s) **Magnetometer & VLF-EM** Township of Area **Bryce Twp.**

Claim Holder(s) **Mr. James Morris** Prospector's Licence No. **K 20143**

Address **45 Fifth Ave. Box 248 POJ 110**

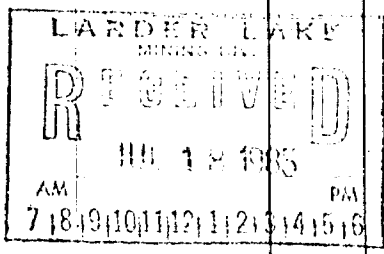
Survey Company **J.D. Geophysics** Date of Survey (from & to) **27 03 85** Total Miles of line Cut **5.13**

Name and Address of Author (of Geo Technical report) **J. Bankowski, 811 Sweetwater Cres., Mississauga, Ont.**

Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence)

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

Mining Claims Traversed (List in numerical sequence)			Mining Claims Traversed (List in numerical sequence)		
Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
L	800614				
	800615				
	800616				
	800617				



Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ ÷ 15 = Total Days Credits

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

Total number of mining claims covered by this report of work. **4**

Date **17 July 85** Recorded Holder or Agent (Signature) *[Signature]*

For Office Use Only

Total Days Cr. Recorded **240** Date Recorded **JUL 18 1985** Mining file order

Date Approved as Recorded **85-08-27** [Signature]

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

Name and Postal Address of Person Certifying **John Daley Box 21 Engelhart Ontario**

Date Certified **July 17** Certified by (Signature) *[Signature]*



GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) VLF-EM & MAGNETOMETER
Township or Area BRUCE TWP.
Claim Holder(s) Mr. James Morris
Survey Company J.D. Geophysics
Author of Report J. Bankowski
Address of Author 811 Sweetwater Cres., Miss., Ont.
Covering Dates of Survey March 22-29/85
(line cutting to office)
Total Miles of Line Cut 5.13

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

L 800 614
L 800 615
L 800 616
L 800 617

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

- Geophysical
- Electromagnetic _____
- Magnetometer _____
- Radiometric _____
- Other _____
- Geological _____
- Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: July 16/85 SIGNATURE: J. Bankowski
Author of Report or Agent

Res. Geol. _____ Qualifications 2 1001

Previous Surveys

File No.	Type	Date	Claim Holder

RECEIVED

JUL 22 1985

MINING LANDS SECTION

TOTAL CLAIMS 7

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations E.M. 16, One Mag. One Number of Readings 251, 250
Station interval 100' intervals Line spacing 8' 400'
Profile scale _____
Contour interval _____

MAGNETIC

Instrument Proton Magnetometer ① - 816 portable
Accuracy - Scale constant 60 K gamma scale
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value The lines were read in loops with tie-ins at the starting points of the loops to correct for diurnal drift

ELECTROMAGNETIC

Instrument VLF - E.M. 16 GEONICS
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency Cutter, Maine (24.0 KHz)
(specify V.L.F. station)
Parameters measured _____

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____
Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters - On time _____ Frequency _____
- Off time _____ Range _____
- Delay time _____
- Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

Mining Lands Section

File No 2-8294

Control Sheet

TYPE OF SURVEY GEOPHYSICAL

_____ GEOLOGICAL

_____ GEOCHEMICAL

_____ EXPENDITURE

MINING LANDS COMMENTS:

_____ *< Bryce >* _____

*Left
AD*

Signature of Assessor

Date

July 25, 1985

File: 2.8294

Mining Recorder
Ministry of Natural Resources
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

We received reports and maps on July 22, 1985 for Geophysical (Magnetometer and Electromagnetic) Surveys submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 800614, et al, in Bryce Township.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with your office prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

A. Barr:mc

cc: Mr. James Moris
45, 5th Avenue
Englehart, Ontario
POJ 1H0
cc: J.H. Bankowski
811 Sweetwater Cres.
Mississauga, Ontario
L5H 4A7

ROBILLARD TWP M - 579.

THE TOWNSHIP

OF

Jan 7/86

















BRYCE

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND


- PATENTED LAND  P
- CROWN LAND SAIT  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.

Areas Withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970)

Area No	File	Date	Disposition

 Mining and surface rights withdrawn from prospectors, staking out, sale or lease Sec. 36 The Mining Act R.S.O. 1980 Order No. 1111/80 68/83 Nov. 16, 1983 4:35 pm.

PLAN NO. M-282 #28

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

TUDHOPE TWP. M - 252

VI

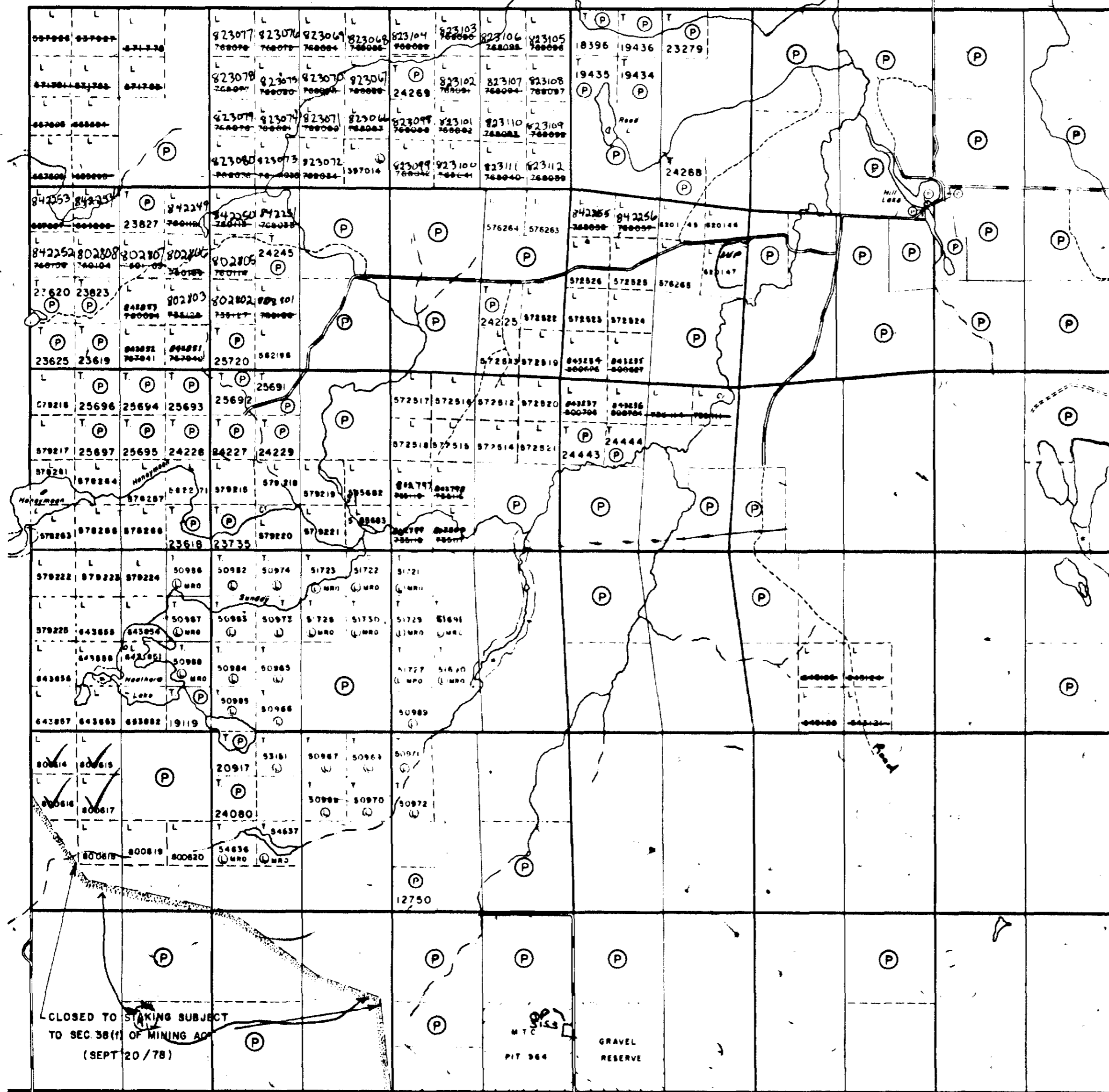
V

IV

III

II

BEAUCHAMP TWP. M - 412

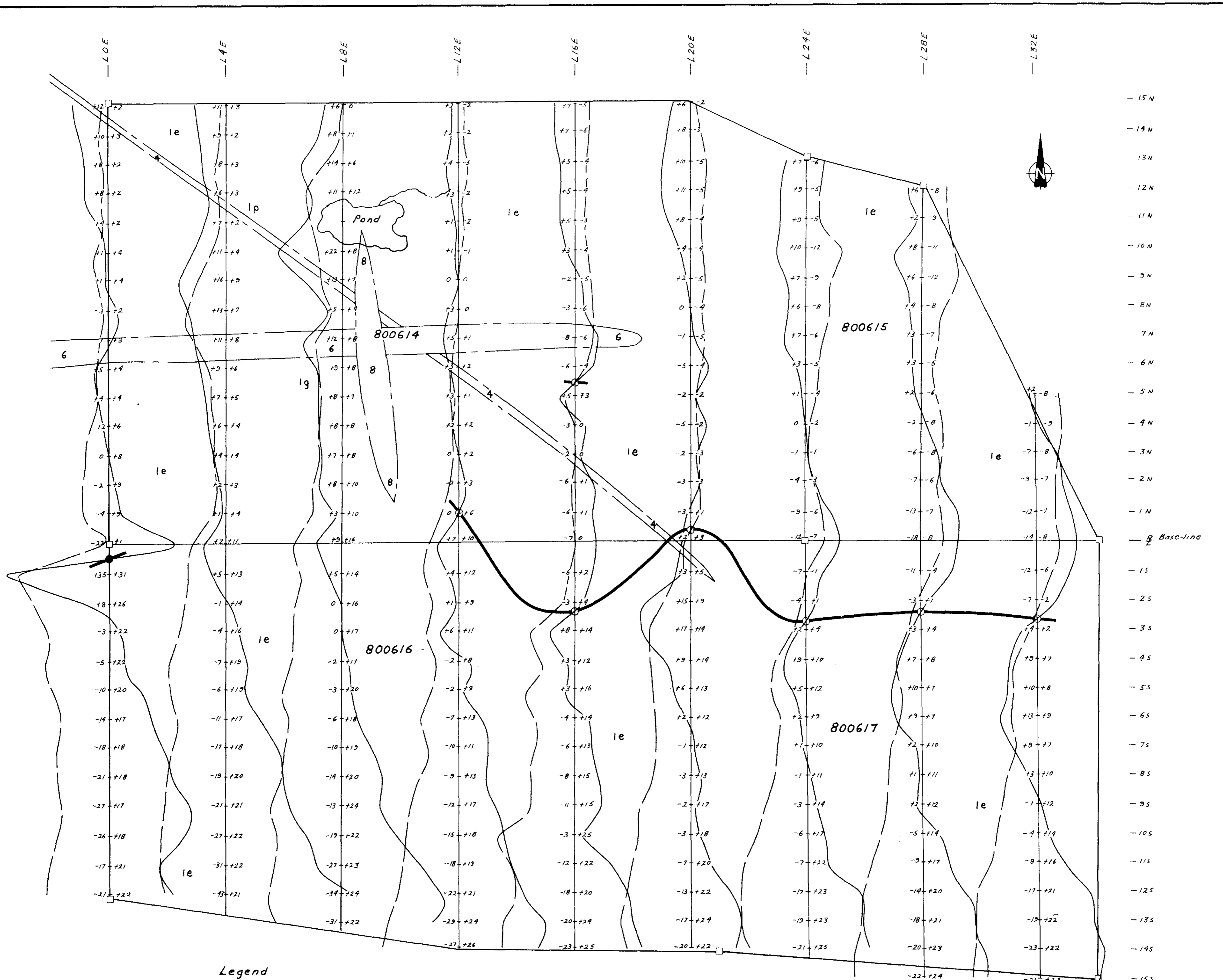


CLOSED TO STAKING SUBJECT TO SEC 38(1) OF MINING ACT (SEPT 20 / 78)



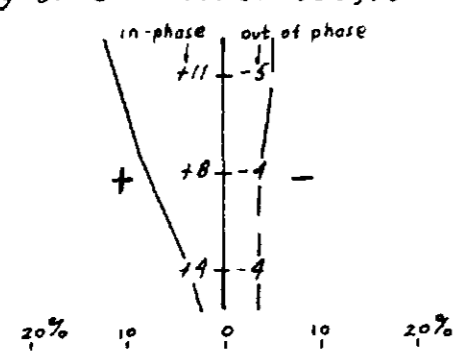
41P09NE0036 2.8294 BRYCE

CANE TWP. M - 211



Legend

- * [1] e, g, p - mafic to intermediate volcanics: tuffaceous, andesitic flows, porphyritic
- [4] - felsic intrusive: felsite dike
- [6] - diabase: Matachewan dike
- [8] - diabase: Nipissing dike
- * - geology after Moorehouse, 1940.



— VLF-EM crossover (strong, weak) of conductor axis

FIGURE 2

VLF-EM PROFILE PLAN and GEOLOGY CLAIMS 800614 to 800617 inclusive BRYCE TOWNSHIP, DIST. of TIMISKAMING LARDER LAKE MINING DIVISION, ONTARIO.

Scale: 1" = 200' 0 100 200 Feet

Profile scale: 1" = 20%
 Primary Transmitter: NAA, Cutler, Maine (24.0 KHz)
 Instrument: Geonics EM16
 Drawn by: J. Bankowski July 12/85

J. Bankowski

28294



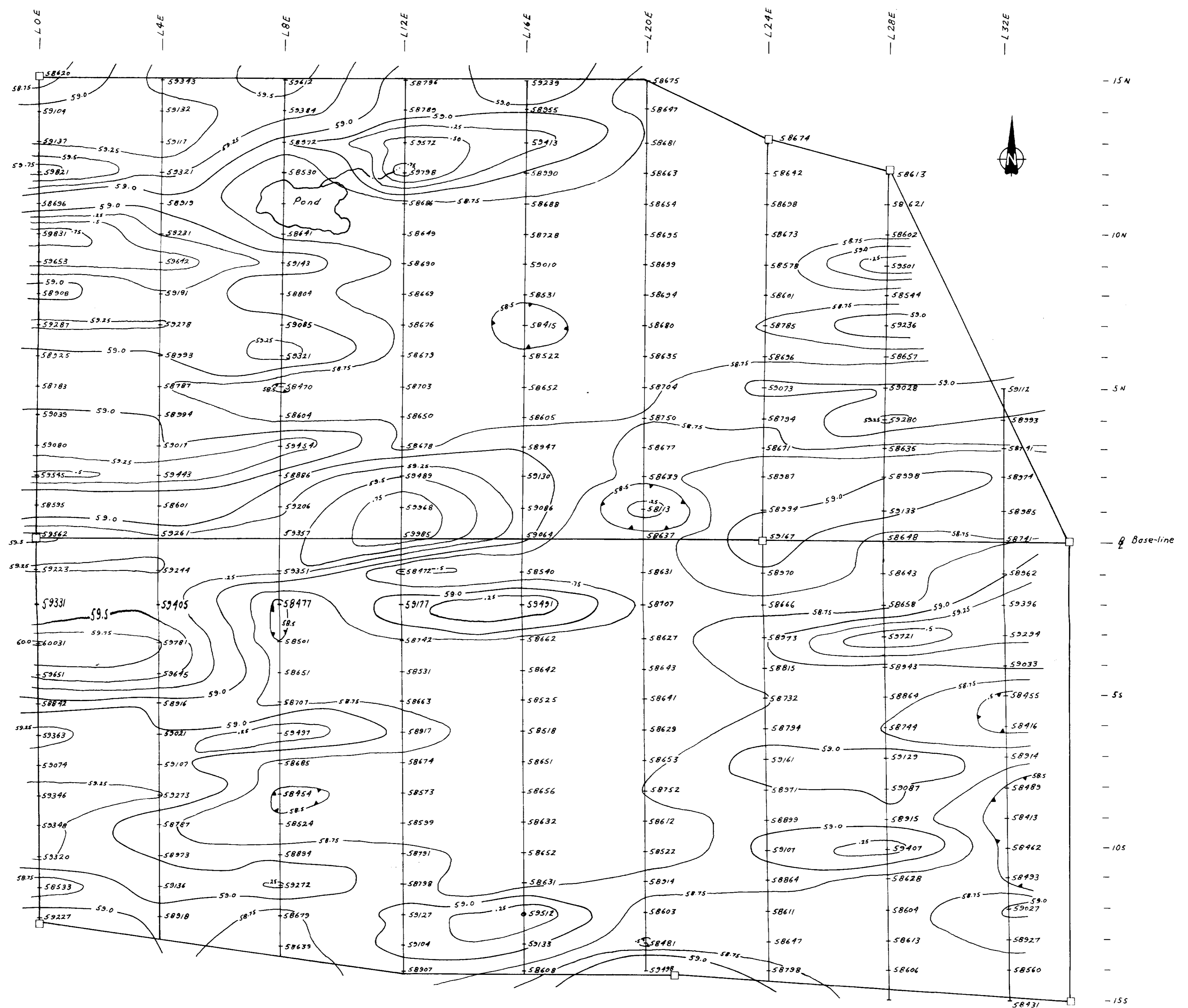


FIGURE 3

MAGNETOMETER CONTOUR PLAN
 CLAIMS 800614 to 800617 inclusive
 BRYCE TOWNSHIP, DIST. of TIMISKAMING
 LARDER LAKE MINING DIVISION, ONTARIO.

Scale: 1" = 200' 0 100 200
FEET

Instrument: geoMetrics G-816
 Constant: 60,000 g scale
 Contour Interval: 250g

Drawn by: J. Bankowski, July 15/85

J. Bankowski

28294

