

52J04SW0007 52J04SW0020 DRAYTON

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Opawica Explorations Inc.
Geological & Geophysical Surveys
Drayton Township, Ontario
Copper-Gold-Silver Prospect

RECEIVED
AUG 12 1985
MINING LANDS SECTION

Toronto, Ontario,
August 1, 1985.

Ulla M. Knowles, B.Sc.,
Consulting Geologist.

Volume Label: OpaDrayt
Disk No.:
Filename:Titlpg

Opawica Explorations Inc.
Geological & Geophysical Surveys
Drayton Township, Ontario
Copper-Gold-Silver Prospect

Introduction

On behalf of Opawica Explorations Inc. geological mapping and ground geophysical surveys were conducted on the Drayton Township property, Patricia Mining Division, Ontario. The geological survey was performed by Ulla M. Knowles, B.Sc., #2206-201 Sherbourne St., Toronto, Ontario, and R. Moretti, 100 Front St., Sioux Lookout, Ontario. The geophysical surveys were carried out by E. M. Hall, Geophysical Technician, Toronto. The surveys were performed between March 1 and August 12, 1985. The following report comprises the observations and results of these surveys.

Location & Access

The property comprises six (6) contiguous unpatented mining claims (Pa 816870 to Pa 816875 inclusive), recorded on Mining Claims Map No. M.2233. They are described as follows:

Pa816873: Con IV; Lot 8	1 claim
Pa816874, 816875: Con IV; Lot 9	2 claims
Pa816872: Con V; Lot 8	1 claim
Pa816870, 816871: Con V; Lot 9	2 claims
Total.....	6 claims

The claims are located in the Patricia Mining Division, Ontario. The property area is approximately 240 acres.

The property lies approximately 4 miles southeast of the town of Sioux Lookout. It is located in North East Bay of Minnitaki Lake. Access to the property is by float-equipped aircraft from Sioux Lookout. An alternate route is by boat from Sioux Lookout located on Pelican Lake, through Frog Rapids Narrows to Abram Lake, through Abram Chute to North East Bay of Minnitaki Lake. The claims include several islands and part of the mainland at the east end of North East Bay.

History and Previous Work

The copper prospect was first staked by J. Donnelly of Port Arthur. There is no record of any work at this time. In 1951, geological mapping was carried out in the area by Conecho Mines Ltd. Apparently, no map is available for this survey. The claims were allowed to lapse.

The property was restaked by R.J. McCombe of Sioux Lookout and optioned to Noranda Mines Limited in 1957. An electromagnetic survey failed to delineate any conductors on lines on either side of two trenches excavated to expose the copper mineralization. No further work was done.

In 1961, Rio Tinto Canadian Exploration Limited optioned the property from R. McCombe and conducted an IP (Induced Polarization) survey. The two trenches were sampled and five holes totalling 1,659 feet were drilled. Assays

For copper, gold, silver, nickel and cobalt are recorded in the Economic Geology section of this report.

No additional exploration work is recorded on the property after 1961.

The area was mapped at a scale of 1 inch to 1/2 mile by F.J. Johnston of the Ontario Ministry of Natural Resources in 1972. The area was surveyed with airborne electromagnetic and magnetic methods by Aerodat Limited for the Ontario Geological Survey, 1981 (Scale: 1:20,000).

Geology of the Property

Outcrop exposure over the grid area is sparse and essentially limited to the shoreline. Approximately two-thirds of the property lies under Minnitaki Lake. Most of the rock formations encountered on the Drayton Township property are intrusive, and to a lesser extent extrusive in origin and Precambrian (Archean) in age. They comprise:

- Late Granitic Intrusive Rocks
- Late Mafic Intrusive Rocks
- Intermediate to Mafic Metavolcanic Rocks

These are described below.

Intermediate to Mafic Metavolcanic Rocks

Intermediate to mafic metavolcanic rocks are the oldest rocks in the grid area and are found on Islands A, B, E and F as well as along the southeast shore of the mainland. They include schistose greenstone, pillowed lava, massive lava, crystal tuff and crystal-rich flows and porphyritic lava. The massive, schistose and pillowed varieties are of probable andesitic composition. They are fine grained, dark grey-green rocks weathering to a medium grey-green colour. Pillowed lavas occur on Island E in a band approximately 20 feet wide. The pillows attain a maximum length and width of 3 feet and 1 foot respectively. They average 1 foot by approximately 8 inches and are relatively undeformed.

Crystal tuffs and crystal-rich flows were observed on Islands E and F. They are fine grained, dark grey rocks containing pale yellow-cream crystals and crystal fragments of feldspar up to 1/4 inch in diameter. The crystals and crystal fragments are randomly oriented.

Porphyritic lava was observed in a narrow band only on Island B. Randomly oriented, yellow-cream feldspar laths up to 1 inch long and averaging 1/2 inch in length occur in a fine grained, dark grey-green matrix.

Mafic Intrusive Rocks

Mafic intrusive rocks were observed on two small islands west of Island B, on Islands C and D and the northwest shore of the mainland. The rocks comprise an equigranular, coarse grained, salt and pepper coloured diorite with very little or no visible free quartz. Minor, more mafic phases approaching gabbroic composition were observed locally.

Late Intrusive Granitic Rocks

Late intrusive 'granitic' rocks occur on Islands A and B and on the mainland. They comprise granodiorite and quartz diorite. The granodiorite is fine to medium grained, medium cream-pink to pink-grey in colour.

The quartz diorite is fine to medium grained and grey-black in colour. Dark grey quartz grains are abundant comprising up to 15 to 20 percent of the rock.

Lamprophyre

Two small, narrow lamprophyre dykes were observed on the northwest shore of Island B and the eastern end of Island A. The dykes attain a maximum width of 18 inches and comprise a soft, very fine grained, dark grey-green rock containing very fine quartz grains and rare, medium red rock fragments up to 1/4 inch in diameter. The attitude of the dykes with respect to the granodiorite is indeterminable.

Structural Geology

Only one major fault was observed in the grid area. It trends northeasterly across Island A and the mainland. A minor north-northwest trending fault was observed along the northwestern shore of Island A. Determination of the direction and amount of displacement along the faults is not possible with the information at hand.

East-northeast trending shearing occurs along the south shore of Island B and the north shore of Island A. North-northwest and north trending shearing occurs along the north shore of Island A.

Schistosity trending east-northeast was observed in the metavolcanic rocks on Island E. A band of pillowed lava trending sub-parallel to the schistosity, lies to the north of the schistose greenstone. Pillow packing and shape indicate a top direction to the south.

Economic Geology

Two trenches and diamond drill logs filed for assessment by Rio Tinto Canadian Exploration Limited in 1961, were examined by the writer. A description of the trenches follows:

Trench No. 1:

Trench No. 1, located at L 24+00W; 3+25S, trends 278° for a length of approximately 60 feet. Sheared and silicified andesite hosts chalcopyrite and minor pyrite mineralization throughout the length of the trench. Chalcopyrite is present as pure, irregular veins and as minor disseminations throughout the trench. Small, irregular quartz diorite intrusions in the andesite host minor copper mineralization as well. Late stage carbonate coats some of the fracture surfaces. Malachite staining due to weathering is prominent in areas of chalcopyrite mineralization.

Andesite lies to the north of the trench and quartz diorite is present in outcrop to the south.

The following trends were observed in the trench:

- jointing: 229 degrees; dip - 60 degrees W.
- 158 degrees; dip - 85 degrees NE.
- 278 degrees; dip - 85 degrees N.
- 070 degrees; dip - 90 degrees
- shearing: 206 degrees; dip - steeply west to 90 degrees
- 354 degrees; dip indeterminable

Trench No. 2:

Trench No. 2 is located at L 24+40W; 4+10S and is approximately 20 feet long. Sheared and silicified andesite and minor quartz diorite host pyrrhotite and minor chalcopyrite mineralization. Malachite staining due to

weathering, accompanies zones of chalcopyrite mineralization. Quartz diorite lies to the south of the trench.

The following trends were observed in the trench:

- jointing: 038 degrees; dip - very steeply west
099 degrees; dip - 90 degrees
- shearing: 009 degrees; dip - 62 degrees E.

Sampling of the two trenches by S.K. Guimond for Rio Tinto Canadian Exploration Limited yielded the following assay averages:

	<u>Length</u>	<u>Au (oz/ton)</u>	<u>Ag (oz/ton)</u>	<u>Cu %</u>
Trench No. 1:	43.33'	0.070	0.065	1.42
Trench No. 2:	22.00'	0.076	0.172	1.36

Maximum values up to 0.46oz Au over 3.25 feet, 0.34oz Ag over 3.25 feet and 1.85% Cu/10.0 feet were encountered in Trench No. 1.

Diamond drill core logged by G. R. Clark and W.S. Bruce for Rio Tinto Canadian Canadian Exploration Limited in 1961, gave the following assay results:

<u>DDH No.</u>	<u>Footage</u>	<u>Width</u>	<u>Cu = %</u>	<u>Au = oz/ton+</u>
M-1	33.5'		0.44	nil
M-1	9.5'		0.54	0.04
M-1	44.5'		0.57	0.04
M-2	37.5'		0.28	0.01

Maximum values of 0.22 oz Au over 5.0 feet and 1.40% Cu over 6.0 feet were found in DDH M-1. In DDH M-2, maximum values of 0.03 oz/ton Au and 0.48% Cu were found over a core length of 11.5 feet.

No assays were given for DDH's M-3, 4 and 5. Silver was not assayed for in the drill holes.

1. Copper mineralization occurs at the contact of quartz diorite with older andesite and appears to be open to the east where Trench No. 1 goes down under the lake. Shearing appears to terminate the mineralization at the west end of the trench.

2. Modest copper, gold and silver values have been recorded from the surface trenches and over substantial widths in DDH M-1 and 2. The diamond drilling also indicates that there are two separate zones of mineralization in DDH M-1.

3. North and north-northwest trending shearing occur in both trenches. North-northwest trending shearing at the west end of Trench No. 1 appears to terminate the mineralization; however, overburden obscures the area immediately to the west of the trench. The mineralization in Trench No. 2 which lies to the southwest of Trench No. 1, does not appear to be an offset of the mineralization in Trench No. 1. Panel-type mineralization is proposed for these zones.

Trace amounts of pyrite and pyrrhotite were observed as disseminations in the metavolcanic rocks and to a minor degree, in the granodiorite.

Quartz veining is present in all rock types in the grid area, in particular, along the northeastern and north-central shores of Island A and the southern shore of Island B.

Magnetic Survey

The magnetic variation within the claim area is moderate. A zone of increased magnetism occurs on Island A and on the mainland and approximately outlines an area underlain by granodiorite. The remainder of the survey area underlain by metavolcanic rocks and diorite, exhibits a flat, low magnetic response.

No faults or diabase dykes are indicated by the survey. No magnetic anomaly was encountered on lines either side of the trenches.

Electromagnetic Survey

Several VLF conductors of moderate to strong intensity occur in the grid area. Three main conductive zones are delineated.

Zone A is a conductor of strong intensity trending northeast between Islands A and B, approximately 200 feet to the north of Trench No. 1. Although minor, local shearing was observed in this area during the mapping survey, it is not sufficient to explain the intensity of the conductor between the islands.

Zones B and C are conductors of moderate intensity. Zone B trends northeast across Island A to the mainland. It is interpreted as a fault. Geological mapping indicates this to be the case. Zone C, trending northwest across Island A and passing to the northeast of Island B, is of moderate intensity. Geological mapping did not define the nature of this conductor.

Additional isolated, weak east-west trending conductors occur in the north half of the grid area; however, as these lie under Minnitaki Lake, further interpretation of these zones is not attempted here.

No conductors were defined on the lines running either side of the trenches.

Conclusions

1. Modest gold, copper and silver assays are indicated in trenches and in two diamond drill holes over substantial lengths by employees of Rio Tinto Canadian Exploration Limited. Two separate zones of mineralization are indicated in DDH M-1.

2. North and north-northwest trending shearing was observed in both trenches. North-northwest trending shearing at the west end of Trench No. 1 appears to terminate the mineralization; however, overburden obscures the area immediately to the west of the trench. The mineralization in Trench No. 2 to the southwest, does not appear to be an offset of that in Trench No. 1, although it occurs on the "other" side of the shear which may terminate the western extension of the mineralization in Trench No. 1. The zones may be quite independent of each other, indicating possible panel-type mineralization.

3. Rio Tinto Canadian Exploration Limited personnel assigned an estimated dip of 65 degrees to the south to the mineralized zone. A surface examination of the trenches and an interpretation of the drill hole data by the writer did not reveal any evidence to support this. In the writer's opinion the dip of the mineralization is indeterminate from the evidence available.

4. Although the mineralization in Trench No. 1 appears to be terminated against a shear zone to the west of the trench, it is open to the east where it disappears under Minnitaki Lake. The diamond drilling to date does not test the possible eastern extension of this mineralization.

5. In the writer's opinion, the property warrants further work because precious and base metal values occur in multiple zones and substantial lengths in surface trenches and in drill holes. The largest known zone of mineralization is open and untested to the east where it passes under Minnitaki Lake. The possibility of discovering additional mineralization, either as an extension of a known zone or as a separate and new discovery has not been fully investigated.

Recommendations

Phase I

1. A MaxMin survey is recommended over the northeast trending conductor (Zone A) between Islands A and B in the vicinity of the trenches. Specifically, the area encompassed by L 16+00W to L 32+00W and 4+00N to 7+00S is to be surveyed. The purpose is to confirm and hopefully better define the VLF conductors located in this area

2. Two diamond drill holes of about 500 feet total are proposed to test conductors delineated by the MaxMin survey.

3. Three diamond drill holes (minimum 600 feet) are recommended to determine the dip and width of the mineralized zones and to delineate a possible extension of the mineralization east of Trench No. 1, under Lake Minnitaki. The following drill hole locations are proposed:

<u>Hole No.</u>	<u>Location</u>	<u>Bearing</u>	<u>Dip</u>	<u>Est. Length</u>	
DR-1	23+60W/3+65S		000 deg.	-45 deg.	150 feet
DR-2	23+60W/4+30S		000 deg.	-45 deg.	250 feet
DR-3	22+60W/3+75S		000 deg.	-45 deg.	<u>150 feet</u>
Total:					550 feet

Elevation differences are quite pronounced, therefore collar elevations must be measured and drill lengths adjusted if reliable dips are to be calculated.

Phase II

If the above program is reasonably successful, it is likely that an additional 3,000 feet of diamond drilling will be required.

Cost Estimate

Phase I:

1. MaxMin Survey:	\$ 2,500.00
2. Diamond Drilling:	
1100 feet @ \$20.00/foot:	
Includes supervision, logging, assaying, etc.	\$ <u>22,000.00</u>

Sub-Total: \$ 24,500.00

Contingency of 15%:

3,675.00

Total estimated cost of Phase I: \$ 27,865.00

Contingent upon the results of Phase I, the following Phase II is proposed:

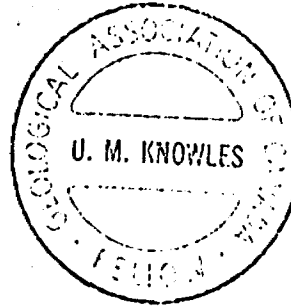
Phase II:

1. Diamond Drilling:
3,000 feet @ \$20.00/foot: \$ 60,000.00

Grand Total: \$ 87,865.00

This report is respectfully submitted.

Toronto, Ontario.
August 12, 1985.



Ulla M. Knowles
Ulla M. Knowles, B.Sc.,
Consulting Geologist

Selected References

- 1951 - Geological Report: Copper Prospect, North East Bay, Minnitaki Lake, Drayton Twp., Ontario; by E. Spencer and D.C. Legget for Conecho Mines Ltd., Dec. 1951.
- 1957 - Ground VLF Electromagnetic Survey: McCombe Occurrence, Drayton Twp., Ontario; Noranda Mines Limited.
- 1961 - Diamond Drill Hole Logs (5 Holes - 1,659 feet), McCombe Occurrence, Drayton Twp., Ontario; Rio Tinto Canadian Exploration Limited, Jan. - Apr. 1961.
- 1961 - Assay Results - Two Trenches, McCombe Occurrence, Drayton Twp., Ontario; Rio Tinto Canadian Exploration Limited.
- 1972 - Geology of the Vermilion-Abram Lakes Area, District of Kenora: Geological Report 101, Ontario Division of Mines; Geology by F.J. Johnston.
- 1982 - Airborne Electromagnetic and Total Intensity Magnetic Survey, Sioux Lookout Area, District of Kenora; by Aerodat Limited for Ontario Geological Survey, Geophysical/Geochemical Series, Map 80557. Scale 1:20,000. Survey and compilation, Jan. - Mar. 1981.

Volume Label:

Disk No.:

Filename:

Certificate

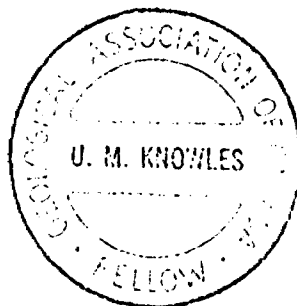
I, ULLA M. KNOWLES, of Metropolitan Toronto, in the Province of Ontario, certify as follows with respect to my Report described below,

Opawica Explorations Inc.,
Geological & Geophysical Surveys
Drayton Township, Ontario
Copper-Gold-Silver Prospect

1. I am a geologist residing at #2206-201 Sherbourne St., Toronto, Ontario.
2. I graduated from the University of Toronto in 1976 with a B.Sc. degree.
3. I am a Fellow of the Geological Association of Canada.
4. I have no interest nor do I expect to receive any, either direct or indirect, in either the properties or the securities of Opawica Explorations Inc.
5. The statements made in this report are based on a study of published geological literature, private reports and geological mapping of the property carried out by myself from July 15 to July 24, 1985.

Toronto, Ontario.
August 1, 1985.

Volume Label: Ulla
Disk No.:
Filename: Cert



Ulla M. Knowles
Ulla M. Knowles, B.Sc.,
Consulting Geologist.

August 12, 1985.

TO WHOM IT MAY CONCERN:

Please be advised that the line cutting on the Drayton Township property was carried out at the time of the geophysical surveys (March, 1985). Picketing was used to tie in the various islands; however, the line cutting is applied to the geological mapping survey, so as to allow the mapping survey to more accurately define the shorelines of the islands and mainland.

Yours sincerely,

Ulla M. Knowles

Ulla M. Knowles, B.Sc.,
Consulting Geologist



52J04SW0007 52J04SW0020 DRAYTON

900



Ministry of Natural Resources

File _____

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) Geological, Magnetic and Electromagnetic
 Township or Area Drayton Twp.
 Claim Holder(s) Opawica Explorations Inc.,
#201-220 Bay St., Toronto, Ont.
 Survey Company Geophys. - E.M. Hall, Geophys. Tech.
U.M. Knowles, B.Sc., Cons. Geol.
 Author of Report Ulla M. Knowles, B.Sc., Cons. Geol.
 Address of Author #2206-201 Sherborne St., Toronto
 Covering Dates of Survey March 1/85 to August 12/85
 (linecutting to office)
 Total Miles of Line Cut 8.3

MINING CLAIMS TRAVERSED
List numerically

Pa 816870
 (prefix) (number)
 Pa 816871
 Pa 816872
 Pa 816873
 Pa 816874
 Pa 816875

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes
line cutting) for first
survey.
ENTER 20 days for each
additional survey using
same grid.

	DAYS per claim,
Geophysical	
-Electromagnetic	<u>20</u>
-Magnetometer	<u>20</u>
-Radiometric	_____
-Other	_____
Geological	<u>40</u>
Geochemical	_____

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

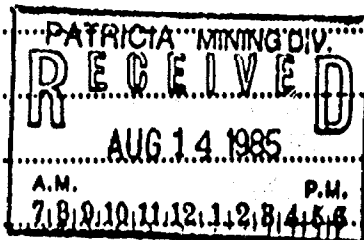
Magnetometer _____ Electromagnetic _____ Radiometric _____
 (enter days per claim)

DATE: August 12, 1985 SIGNATURE: Ulla M. Knowles
 Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder



TOTAL CLAIMS 6

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 377 Number of Readings 1312
Station interval 100': Mag and EM read every 50' Line spacing 200' and 400'
Profile scale 1" = +/- 30%
Contour interval N/A

MAGNETIC

Instrument Scintrex Fluxgate Magnetometer
Accuracy - Scale constant 5 gamma max.
Diurnal correction method chek back on base and control stations
Base Station check-in interval (hours) 1/2 to 1 hour
Base Station location and value BL/L. 32+00W - 580 gammas

ELECTROMAGNETIC

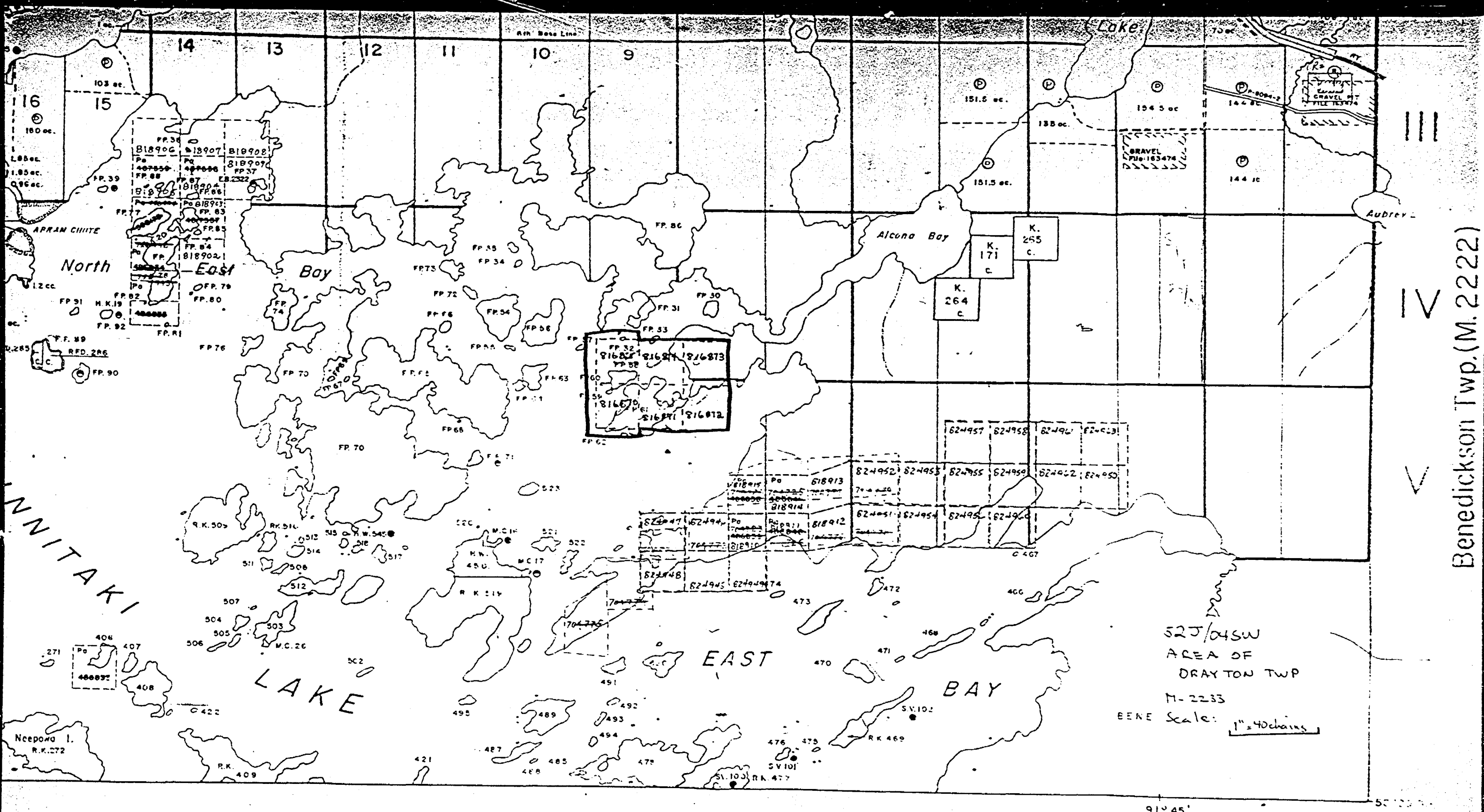
Instrument Ronka EM-16
Coil configuration Fixed Horizontal and Vertical
Coil separation N/A
Accuracy +/- 1%
Method: [X] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency 17.80 KHz. - Cutler, Maine (specify V.L.F. station)
Parameters measured Vertical In-Phase and Out-of-Phase Components

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



Benedickson Twp. (M.2222)

52J/04SW
 AREA OF
 DRAYTON TWP
 M-2233
 BEENE Scale: 1" = 40 chains

Parnes Lake Area (M.2150)

Smoek Lake Area (M.3196)

91° 45'

52° 25'



Ministry of Natural Resources
 Report of Work
 (Geophysical, Geological, Geochemical and Expenditures)

#85-127
 AUG 14 1985
 MINING ACT
 STOUX LOOKOUT

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

Oct 2nd

Rochelle Mining Lands Branch

Type of Survey(s): Geological, Magnetic and Electromagnetic
 Township or Area: Drayton Twp. M-2233
 Claim Holder(s): Opawica Explorations Inc.
 Prospector's Licence No.: T-819
 Address: #201-220 Bay Street, Toronto, Ontario
 Survey Company: Geophys. - E.M. Hall, Geophysical Tech.
 Date of Survey (from & to): 01 03 85 | 12 08 85
 Total Miles of line Cut: 8.3
 Name and Address of Author (of Geo-Technical report): U.M. Knowles, B.Sc., Cons. Geol., #2206-201 Sherbourne St., Toronto, M5A 3X2

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
Pa	816870				
	816871				
	816872				
	816873				
	816874				
	816875				

RECEIVED
 AUG 21 1985
 MINING DIVISION

PATRICIA MINING DIV.
RECEIVED
 AUG 14 1985
 A.M. 7:8 | 9:10 | 11:12 | 1:2 | 3:4 | 5:6 P.M.

See revised work statement. A see revised work statement.

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.

Pa. 816870

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

For Office Use Only

Total Days Cr. Recorded: 480
 Date Recorded: August 14/85
 Date Approved as Recorded:
 Mining Recorder:
 Branch Director:

Date: August 12, 1985
 Recorded Holder or Agent (Signature): Ulla M. Knowles
 per Ulla M. Knowles

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: Ulla M. Knowles, B.Sc., Consulting Geologist
 #2206-201 Sherbourne St., Toronto, Ont.
 Date Certified: August 12, 1985
 Certified by (Signature): Ulla M. Knowles



Ministry of
Natural
Resources

**Technical Assessment
Work Credits**

File
2.8351

Date
1985 09 27

Mining Recorder's Report or
Work No. **85-127**

Recorded Holder: **OPAWICA EXPLORATION INC**

Township or Area: **DRAYTON TOWNSHIP**

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ 40 days Magnetometer _____ 20 days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ 27.4 days Geochemical _____ days <input type="checkbox"/> Man days <input type="checkbox"/> Airborne <input type="checkbox"/> <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	PA 816870 to 75 inclusive

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

**LINE CUTTING CREDITS HAVE BEEN APPLIED TO THE
ELECTROMAGNETIC SURVEY.**

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:



Ministry of
Natural
Resources

Ontario

Technical Assessment
Work Credits

File
2.8351

Date
1985 09 11

Mining Recorder's Report of
Work No. 85-127

Recorded Holder: OPAWICA EXPLORATIONS INC.
Township or Area: DRAYTON TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p>Geophysical</p> <p>Electromagnetic 20 ^{40*} days</p> <p>Magnetometer 20 days</p> <p>Radiometric _____ days</p> <p>Induced polarization _____ days</p> <p>Other _____ days</p> <p>Section 77 (19) See "Mining Claims Assessed" column</p> <p>Geological 20 ¹³ days</p> <p>Geochemical _____ days</p> <p>Man days <input type="checkbox"/> Airborne <input type="checkbox"/></p> <p>Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/></p> <p><input type="checkbox"/> Credits have been reduced because of partial coverage of claims.</p> <p><input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.</p>	<p>PA 816870 to 75 inclusive</p> <p><i>client may submit man-days breakdown</i></p>

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey Insufficient technical data filed

- Geological credit may not be given for those portions of mining claims covered by water.

** Ineading credits applied to geophysical survey.*

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19) — 60;

2.8351

	E.M.	Mg.	Gen.																		
Pa.-816870	✓	✓	1/2																		
71	✓	✓	1/2																		
72	✓	✓	3/4																		
73	✓	✓	✓																		
74	✓	✓	3/4																		
816875	✓	✓	3/4																		
			1/4																		
$(40 \times 6) \div (6 + \frac{13}{4}) = 25.94 \approx 26$																					
																		D.K.			

1985 08 15

File: 2.8351

Mining Recorder
Ministry of Natural Resources
P.O. Box 309
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

We received reports and maps on August 12, 1985 for Geophysical (Magnetometer and Electromagnetic) and Geological Surveys submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims PA 816870, et al, in Drayton 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: Opawica Exploration Inc.,
Suite 201
220 Bay Street
Toronto, Ontario
M5J 1P3

cc: U.M. Knowles
B.Sc., Consulting Geologist
Suite 2206
201 Sherbourne Street
Toronto, Ontario
M5A 3X2

August 12, 1985.

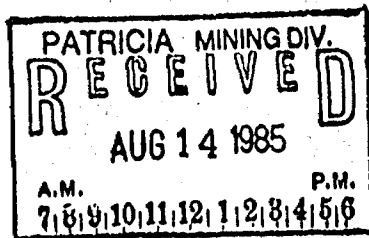
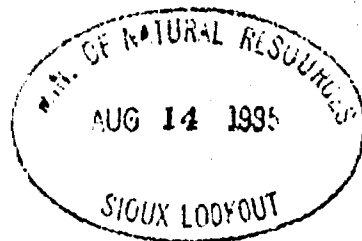
TO WHOM IT MAY CONCERN:

Please be advised that the line cutting on the Drayton Township property was carried out at the time of the geophysical surveys (March, 1985). Picketing was used to tie in the various islands; however, the line cutting is applied to the geological mapping survey, so as to allow the mapping survey to more accurately define the shorelines of the islands and mainland.

Yours sincerely,

Ulla M. Knowles

Ulla M. Knowles, B.Sc.,
Consulting Geologist





Ministry of
Natural
Resources

Sept. 26/85

1985 09 11

Your File: 85-127
Our File: 2.8351

Mining Recorder
Ministry of Natural Resources
P.O. Box 309
Sioux Lookout, Ontario
POV 2T0

Dear Sirs:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888. *85-09-12*

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

F.S.F.D. Kinvig:mc

Encls.

cc: Opawica Explorations Inc
Suite 201
220 Bay Street
Toronto, Ontario
M5J 1P3

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

Harper
- client to provide
max days breakdown
for geology by due date
above.
- amend statement
with new Notice as
noted
- Client wishes to apply
/ meaning to Gophiques rather
- than geology.
- I have OK! this with M.R. (Doris)
in PA
R.

cc: U.M. Knowles
Suite 2206
201 Sherbourne Street
Toronto, Ontario
M5A 3X2



Ministry of
Natural
Resources

Notice of Intent
for Technical Reports

1985 09 11

2.8351/85-127

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

OPAWICA EXPLORATIONS INC.

220 BAY STREET, SUITE 201, TORONTO, ONTARIO. M5J 1P3 • (416) 363-7704

September 17, 1985.

Mr. R.J. Pichette, Administrator,
Ministry of Natural Resources,
Mining Lands Section,
Room 6610, Whitney Block,
Queen's Park,
Toronto, Ontario.
M7A 1W3

RECEIVED LAND MANAGEMENT BRANCH	
SEP 20 '85	
PREPARE REPLY	<input type="checkbox"/>
COMMENTS PLEASE	<input type="checkbox"/>
BY	
S. E. YUNDT	
J. R. MORTON	/
J. C. SMITH	/
W. P. BROOK	
M. J. HOGAN	
D. W. SCOTT	
S. KEEN	
Return To: R.6643	

SUBJECT: MNR File 2-8351
Mining Recorder File 85-127
Opawica Explorations Inc. T819
Drayton Township - M2223 - 6 Claims

Attn: Mr. R.J. Pichette:

Herewith is a break-down of the geological work done on the Drayton Township claims owned by Opawica Explorations Inc.

Ulla M. Knowles, B.Sc. Consulting Geologist,
201 Sherbourne Street, #2206,
Toronto, Ontario.

July 15 - July 25/85 - 10 days
July 29 - August 2/85 - 4.5 days

Reno Moretti, School teacher - prospector,
Sioux Lookout, Ontario.

July 16 - July 22/85 - 7 days

H. Grant Harper, P.Eng., Consulting Engineer
220 Bay Street, #201,
Toronto, Ontario.

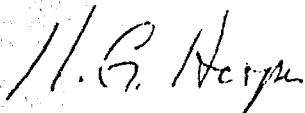
July 18 - July 19/85 - 2 days

Total Days = 23.5
x7 = 164.5
÷6 = 27.4 days/claim

I understand that 20 days line cutting credit will be applied to the geophysical surveying under the Special Provisions.

Thank you for your consideration.

Yours truly,



H. Grant Harper,
President.

September 27, 1985

Your File: 85-127
Our File: 2.8351

Mining Recorder
Ministry of Natural Resources
P.O. Box 309
Sioux Lookout, Ontario
POV 2T0

Dear Sir:

RE: Geophysical (Electromagnetic & Magnetometer)
and Geological Surveys on Mining Claims
PA 816870, et al, in Drayton Township

The Geophysical (Electromagnetic & Magnetometer)
and Geological Surveys assessment work credits
as shown on the attached statement have been
approved.

Please inform the recorded holder of these mining
claims and so indicate on your records.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

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

DK/mc

cc: Opawica Explorations Inc
Suite 201
220 Bay Street
Toronto, Ontario
M5J 1P3
cc: Resident Geologist
Sioux Lookout, Ontario
Encl.

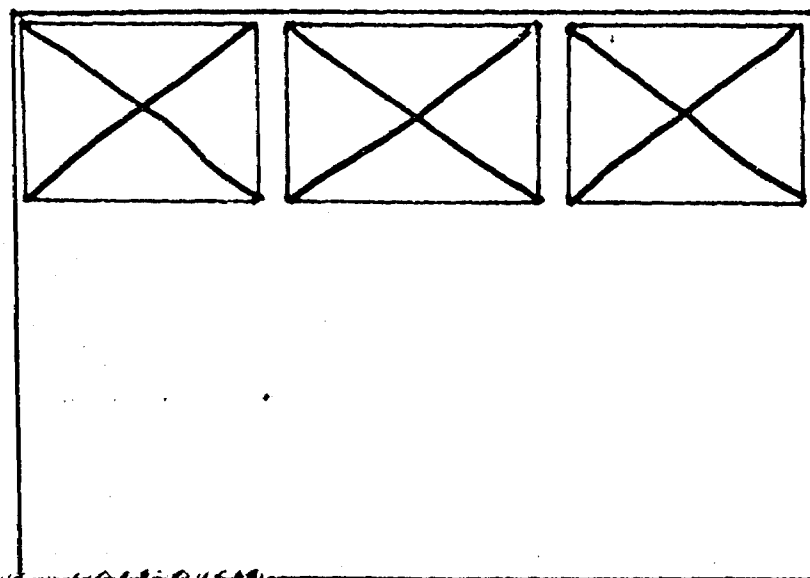
cc: U.M. Knowles
Suite 2206
201 Sherbourne Street
Toronto, Ontario
M5A 3X2

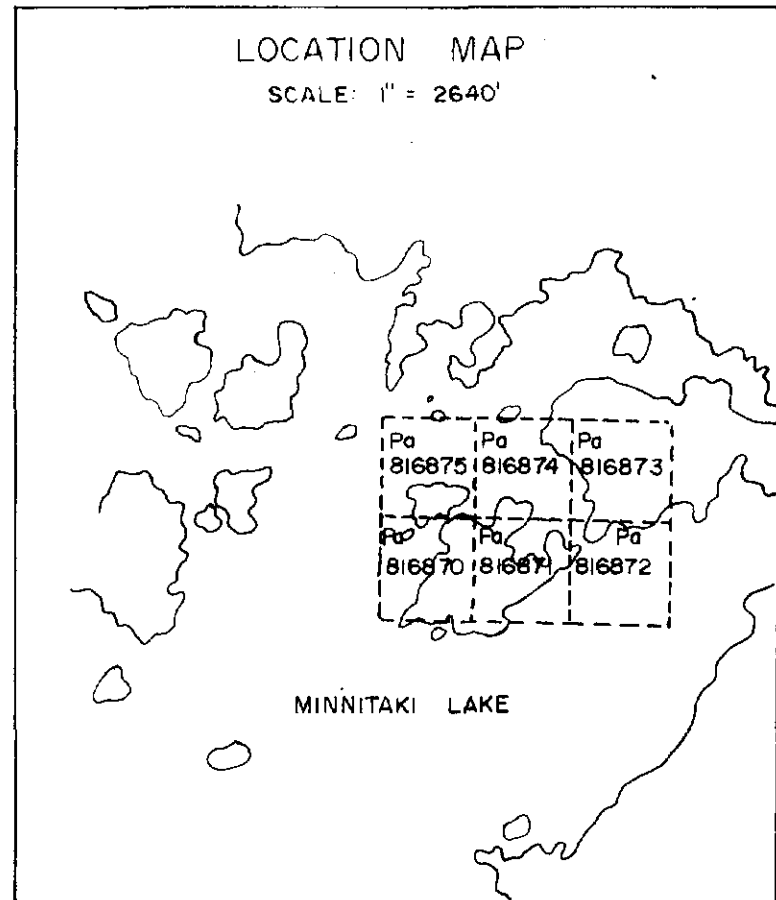
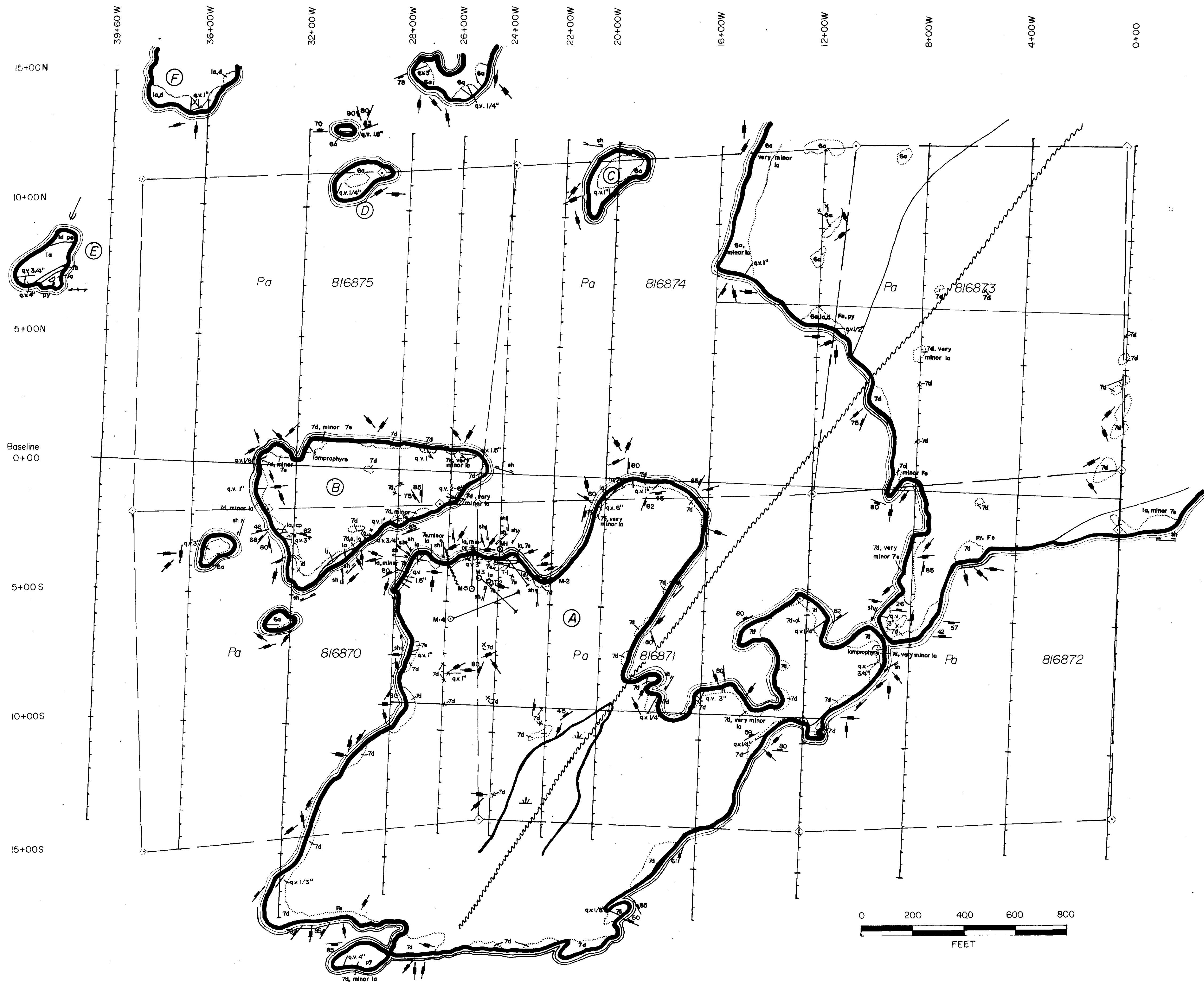
SEE ACCOMPANYING
MAP(S) IDENTIFIED AS

52J/04SW-0020 # 1-3

LOCATED IN THE MAP
CHANNEL IN THE
FOLLOWING SEQUENCE

(X)





LEGEND

LATE INTRUSIVE ROCKS

- 7 7d Granodiorite
- 7e Quartz diorite
- 6 6a Diorite

INTERMEDIATE TO MAFIC METAVOLCANIC ROCKS

- 1 1a Intermediate to mafic lava; schistose greenstone
- 1b Pillowed lava, probable andesite
- 1c Massive lava
- 1d Crystal tuffs and crystal-rich flows
- 1j Porphyritic flows

SYMBOLS

- x Outcrop
- Geological boundary
- Fault
- 68: Jointing; vertical, inclined
- sh Shearing
- Schistosity
- Pillow lava; tops known
- Trench
- qv.1" Quartz veining
- cp chalcopyrite
- Fe Iron staining
- po pyrrhotite
- py pyrite

M-2
o Diamond drill hole location and projection to surface—Rio Tinto Canadian Exploration Limited, 1961.

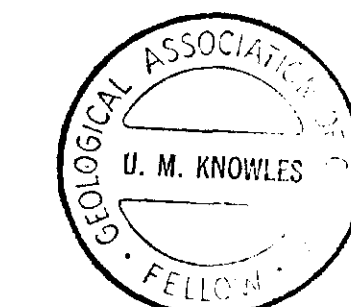
OPAWICA EXPLORATIONS INC.

DRAYTON TWP. PROPERTY

GEOLOGICAL SURVEY

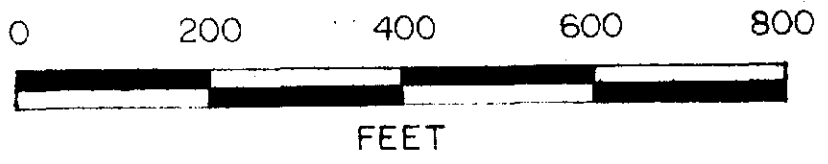
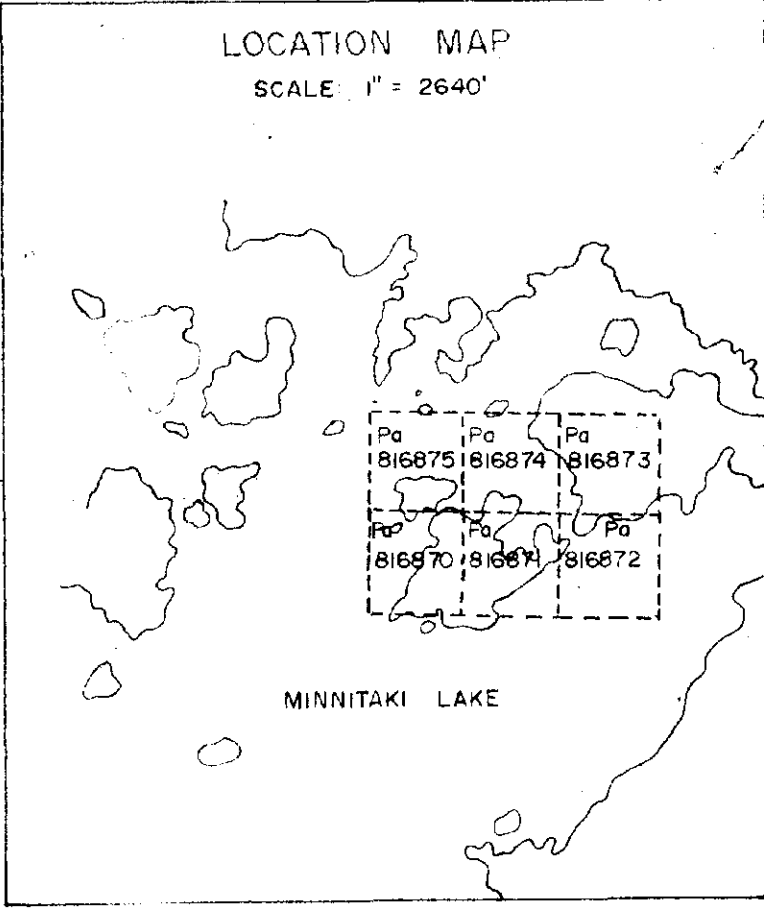
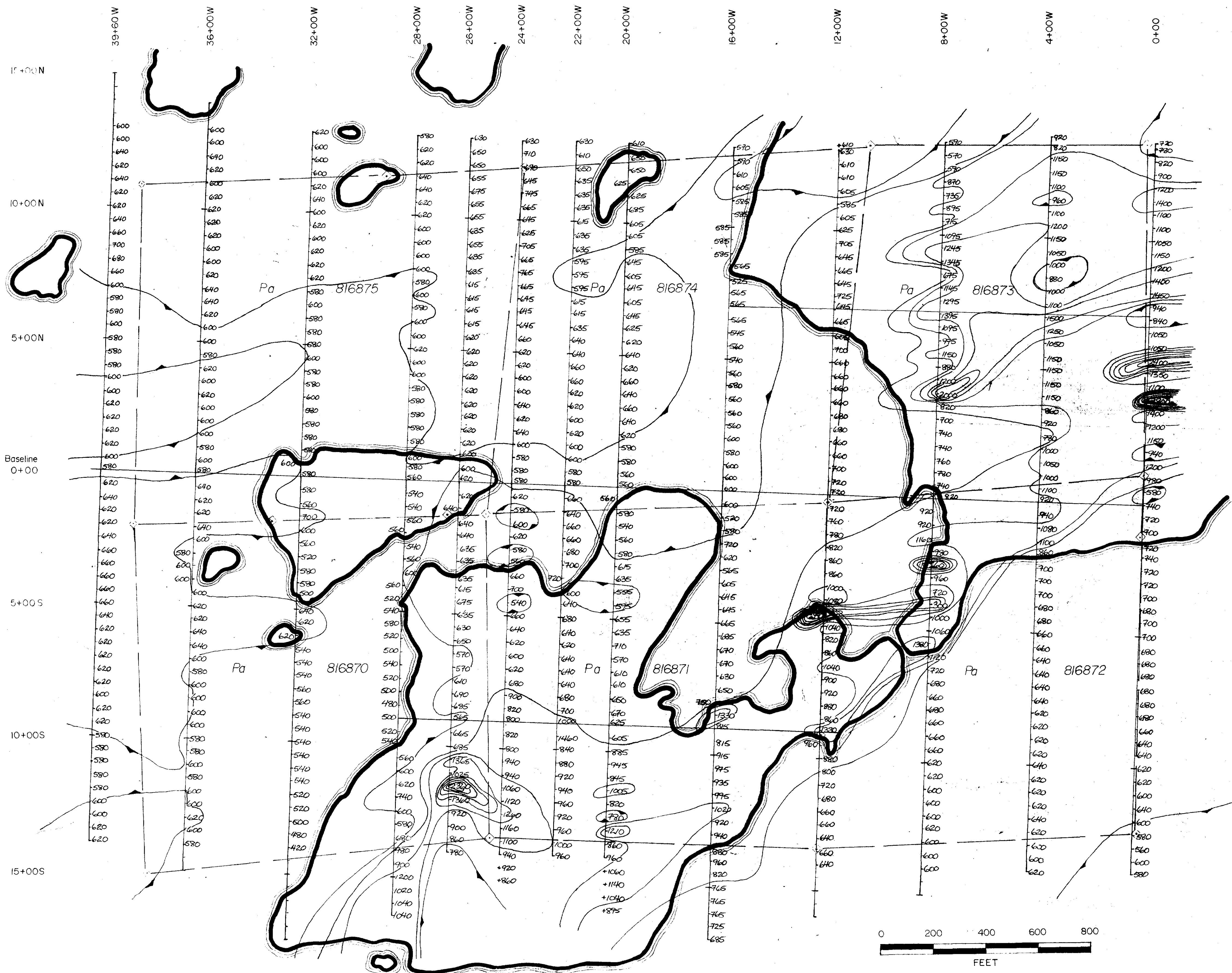
28351

525/04SW-0020, #1



Date: August 12, 1985 Signed: Ulla M. Knowles





OPAWICA EXPLORATIONS INC.

DRAYTON TWP PROPERTY

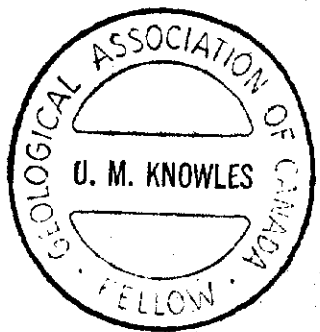
MAGNETOMETER SURVEY

SCINTREX FLUXGATE MAGNETOMETER

Contour Interval = 200 gammas

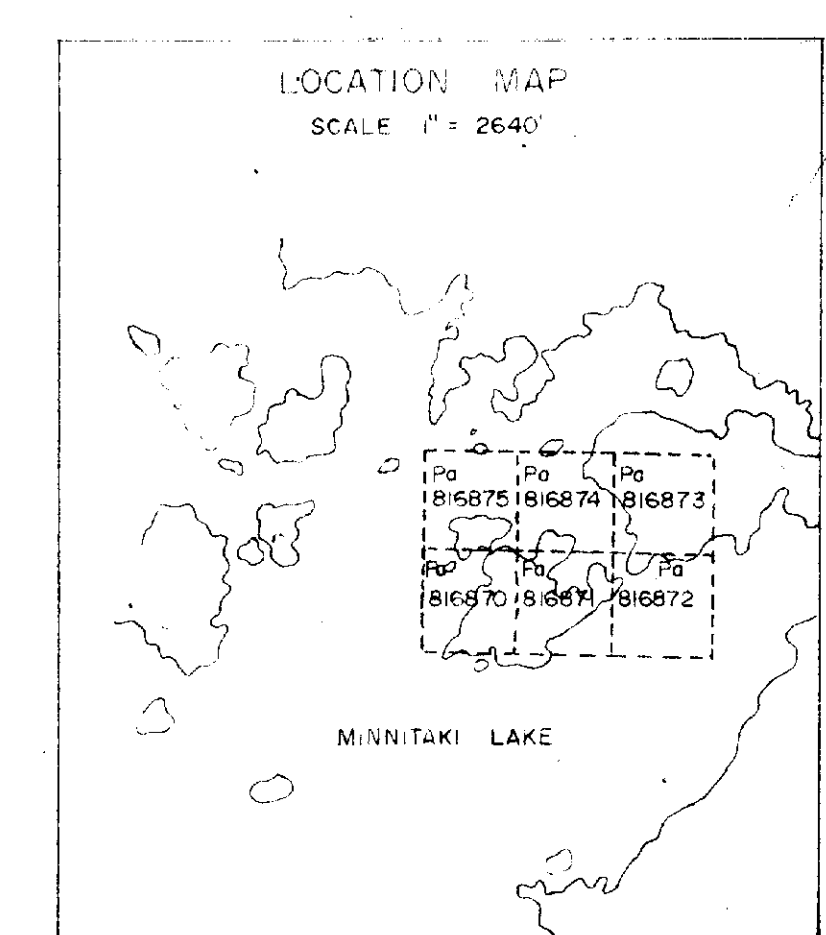
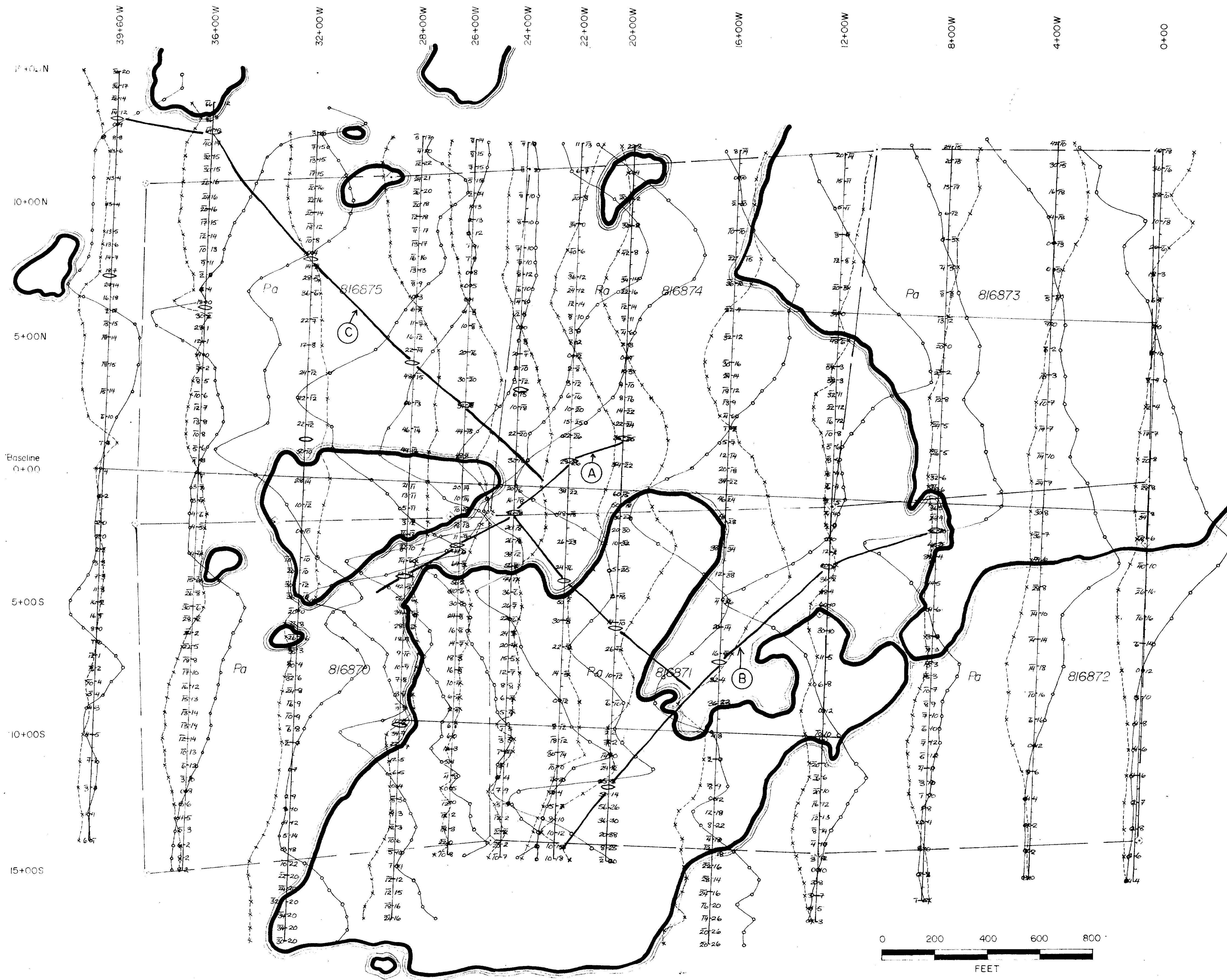
2.8351

52J/04SW-0020, #2

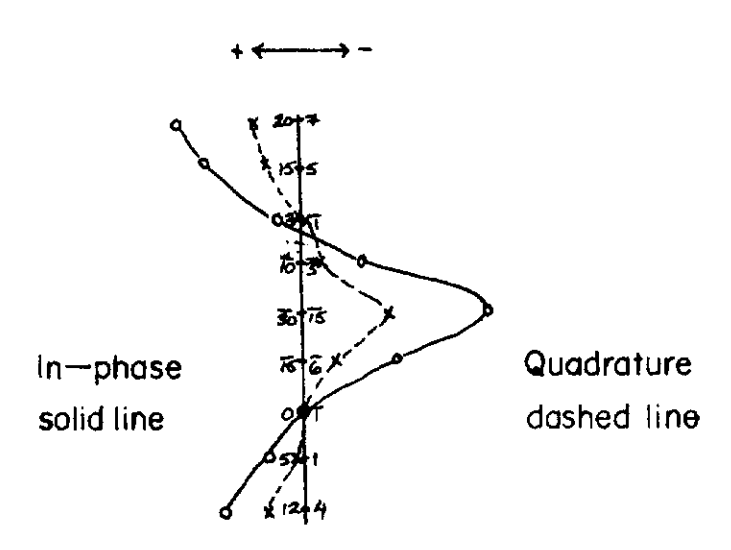


Date: August 12, 1985 Signed: U. M. Knowles





LEGEND



Profile Scale: 1" = 30%

Transmitting Station: NAA; Cutler, Maine
Readings taken facing north

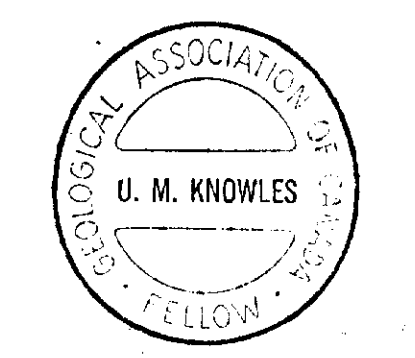
OPAWICA EXPLORATIONS INC.

DRAYTON TWP PROPERTY
ELECTROMAGNETIC SURVEY

RONKA EM-16

52J/04SW-0020, #3

28351



Date: August 12, 1985 Signed: Uela M. Knowles

