



41P13SE0005 2.2131 STETHAM

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REPORT
ON
AIRBORNE RADIOMETRIC SURVEY
ON THE PROPERTY OF
BEACH GOLD MINES LTD.

INTRODUCTION

An airborne radiometric survey was carried out over the property of Beach Gold Mines Ltd. in Stetham-Noble townships. The object of the survey was to locate areas of above normal radioactivity for more detailed ground exploration.

The following report and accompanying map describe the results of the survey.

PROCEDURE AND INSTRUMENT DATA

The airborne survey was carried out using a Model DISA-400A Gamma Ray Spectrometer connected to a Model 7155A recorder. This equipment was mounted in a Supercub aircraft. The spectrometer has a built-in discriminator which gives net counts due to uranium, thorium, potassium, and total radiation on different channels. In this survey only the total radiation was recorded.

The survey lines were laid out on a base map in an east-west direction with lines at approximate 500 foot intervals. Navigational control was established by manually

marking fiducials on the tape corresponding to topographical features on the ground such as creeks, lake shore, etc. A total of 32 line miles of survey was flown of which 10.3 was on the claims of Beach Gold Mines Ltd. The aircraft was flown at a height of approximately 40 feet above the ground over the area surveyed. This was possible as the terrain is relatively flat.

GEOLOGY

The property is situated in the central portion of a large igneous mass of granite of Early Precambrian age. The entire area is mapped as granite but no doubt contains migmatites, pegmatites, in the form of sills and dykes.

The Beach Gold property would appear to be entirely underlain by granite. There is one reported radioactive occurrence in the north part of the property near the lake shore, as shown on the accompanying map. This consists of granite, quite altered with some banding. No sampling results are known to the writer.

RESULTS OF THE AIRBORNE SPECTROMETER SURVEY

The results of the airborne survey are plotted as profiles on the accompanying map on a scale of one inch to 800 feet. The scale of the profiles is one inch to 50 counts per second (total count).

The granite has a background count and an arbitrary mean has been taken and the anomalous areas are shown as shaded areas on the map. An examination of the map shows most of the area to be fairly uniform in its radioactivity. The areas covered by lakes show below normal values which is no doubt due to the greater distance from the instrument to bedrock and not to lower radioactivity.

The most prominent anomalous area is a broad northwest striking zone which is in the northwest corner of the area surveyed. This appears to cut across the northern part of the Beach Gold property and the radioactive showing is situated within this broad zone. The radioactivity appears to die out to the southeast.

Line 8, which is just north of the radioactive occurrence, shows above normal values under the lake immediately adjacent to the showing. Line 7, the next line north, shows a good width of anomalous values on the north side of the lake. This suggests that there is a minimum length of 1,600 feet that warrants detailed exploration on the ground.

CONCLUSIONS AND RECOMMENDATIONS

The airborne survey outlined a broad northwest striking anomalous area, part of which crosses the northern part of the Beach Gold Mines' property. This has the appearance of being a mass effect from a low radioactive source. However,

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the fact that the known radioactive occurrence is within this anomalous zone enhances the significance of the zone.

Detailed ground exploration is recommended to the northwest and southeast of the radioactive occurrence. This should consist of both a radioactive survey and geological examination.

Respectfully submitted,
PROSPECTING GEOPHYSICS LTD.


H.J. Bergmann, P. Eng.

Montreal, Que.,
June 3, 1976.

**GEOPHYSICAL - GEOLOGIC
TECHNICAL DATA**



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

Type of Survey Airborne radiometric
 Township or Area Stetham-Noble Twp.
 Claim holder(s) Beach Gold Mines Ltd.
325 Howe St., Vancouver, B.C.
 Author of Report H.J. Bergmann,
 Address 3518 Vendome Ave., Montreal, Que.
 Covering Dates of Survey May 17-31, 1976
 (linecutting to office)
 Total Miles of Line cut _____

MINING CLAIMS TRAVERSED		
List numerically		
P	429333	✓
(prefix)	(number)	
P	429334	✓
P	429335	✓
P	429336	✓
P	429337	✓
P	429338	✓
P	428900	✓
P	428893	✓
P	428894	✓
P	428895	✓
P	428896	✓
P	428897	✓
P	428898	✓
P	428899	✓
P	428901	✓
$10.3 \times 4 = 41.2 \div 15 = 27.7$		
TOTAL CLAIMS		<u>15</u>

If space insufficient, attach list

<u>SPECIAL PROVISIONS CREDITS REQUESTED</u>		DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical -Electromagnetic _____ -Magnetometer _____ -Radiometric _____	
ENTER 20 days for each additional survey using same grid.	-Other _____ Geological _____ Geochemical _____	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
 Magnetometer _____ Electromagnetic _____ Radiometric 27
 (enter days per claim)

DATE: May 31, 1976 SIGNATURE: H.J. Bergmann
 Author of Report

PROJECTS SECTION 1. D
 Res. Geol. 63.3279 Qualifications 63.1061
 Previous Surveys 63.3283 note for assessment credits

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations _____ Number of Readings _____

Station interval _____

Line spacing _____

Profile scale or Contour intervals _____
(specify for each type of survey)

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base station location _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION -- RESISTIVITY

Instrument _____

Time domain _____ Frequency domain _____

Frequency _____ Range _____

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) Radiometric

Instrument(s) Gamma Ray Spectrometer Model DISA-400A
(specify for each type of survey)

Accuracy ±1 c.p.s.
(specify for each type of survey)

Aircraft used Supercub

Sensor altitude _____

Navigation and flight path recovery method Visual

Aircraft altitude 40' Line Spacing 500'

Miles flown over total area 32.04 Over claims only 10.3

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 _____

Hazen Twp. - M.923

Emerald Twp. - M.785-

THE TOWNSHIP OF 2.2131









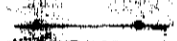


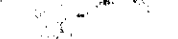



STETHAM

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

- PATENTED LAND 
- CROWN LAND 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 

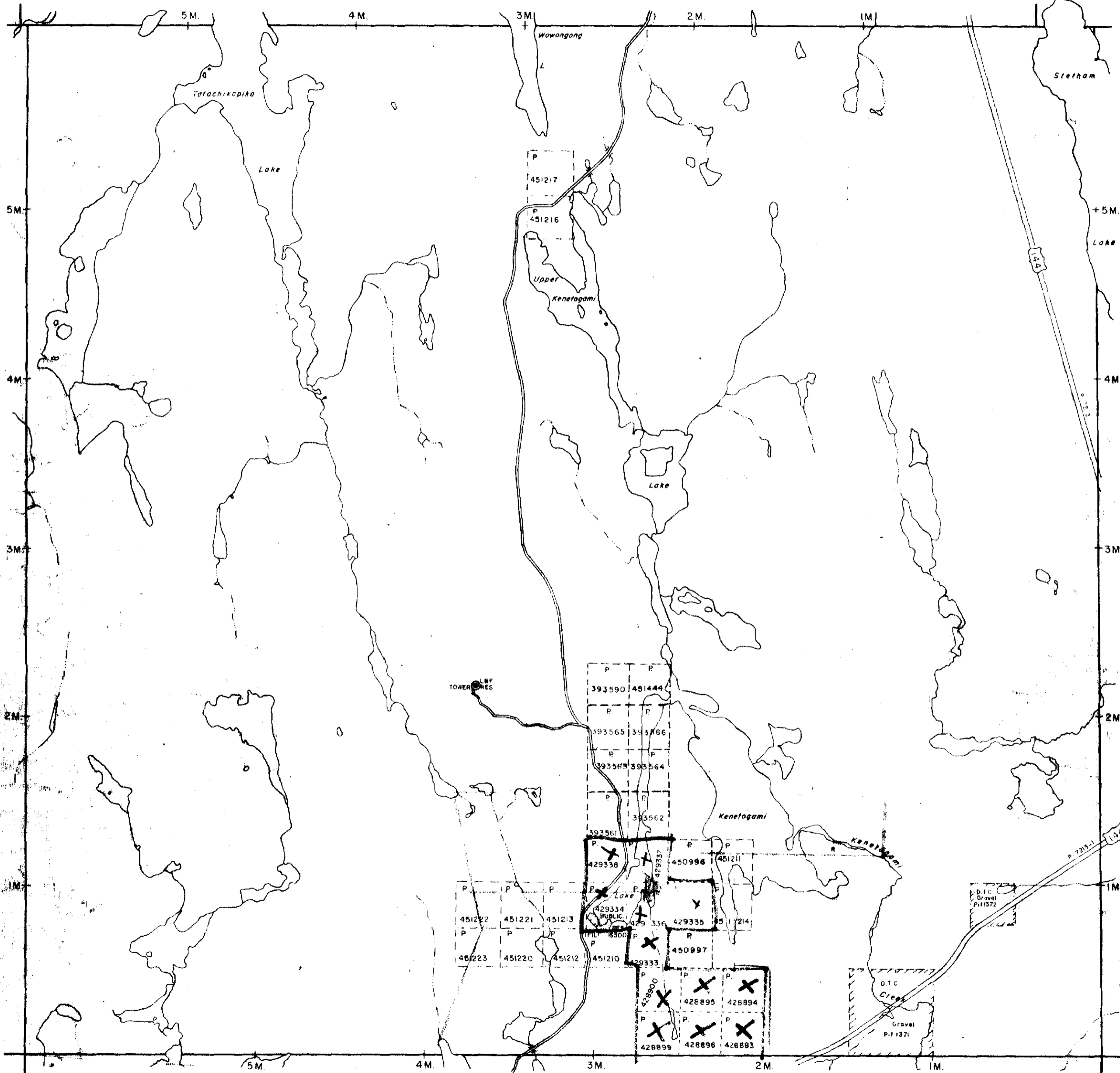
NOTES

- 400' surface rights reservation around all lakes and rivers.
- 400' Surface Rights Reservation Around Kenetogami Lake To The Dept. Of Lands & Forests File-160708

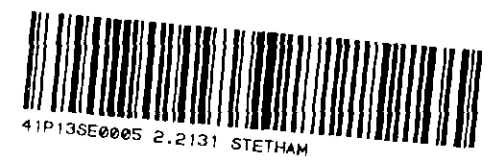
DATE OF ISSUE
 JUN - 8 1976
 SURVEYS AND MAPPING
 BRANCH

PLAN NO. M.1129

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



Noble Twp. - M.1026



Stetham Twp. (M-1129)

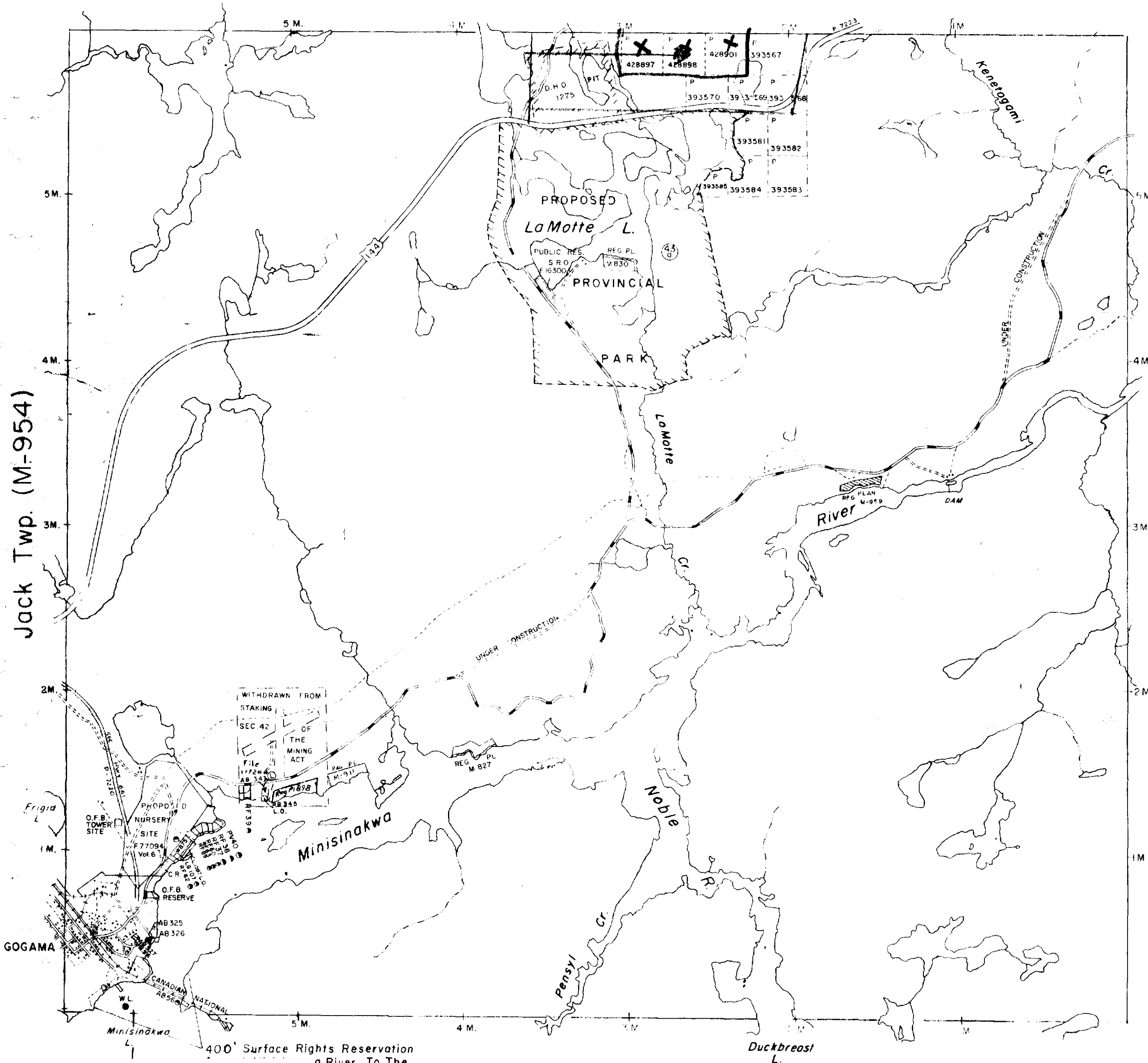
THE TOWNSHIP
OF 2.2131

NOBLE

DISTRICT OF
SUDBURY

PORCUPINE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS



Jack Twp. (M-954)

Togo Twp. (M-1158)

Groves Twp. (M-898)

LEGEND

- PATENTED LAND (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 (C)

NOTES

400' Surface Rights Reservation
around all Lakes and Rivers.

Parcels Indicated thus:

- Patented for Mining & Surface Rights.
- " " Surface Rights Only.

Town of Gogama
Registered Plans: M.198, M.199, M.200,
M.72, M.85.
Locations: LN 7, LN 10, LN 11,
LN 12.

Areas withdrawn from staking under Section 43 of the Mining Act. R.S.O. 1970

File	Date	Disposition
163003 vol 2	Feb.17/72	M.R. & S.R.
172563		
163005 vol.3		

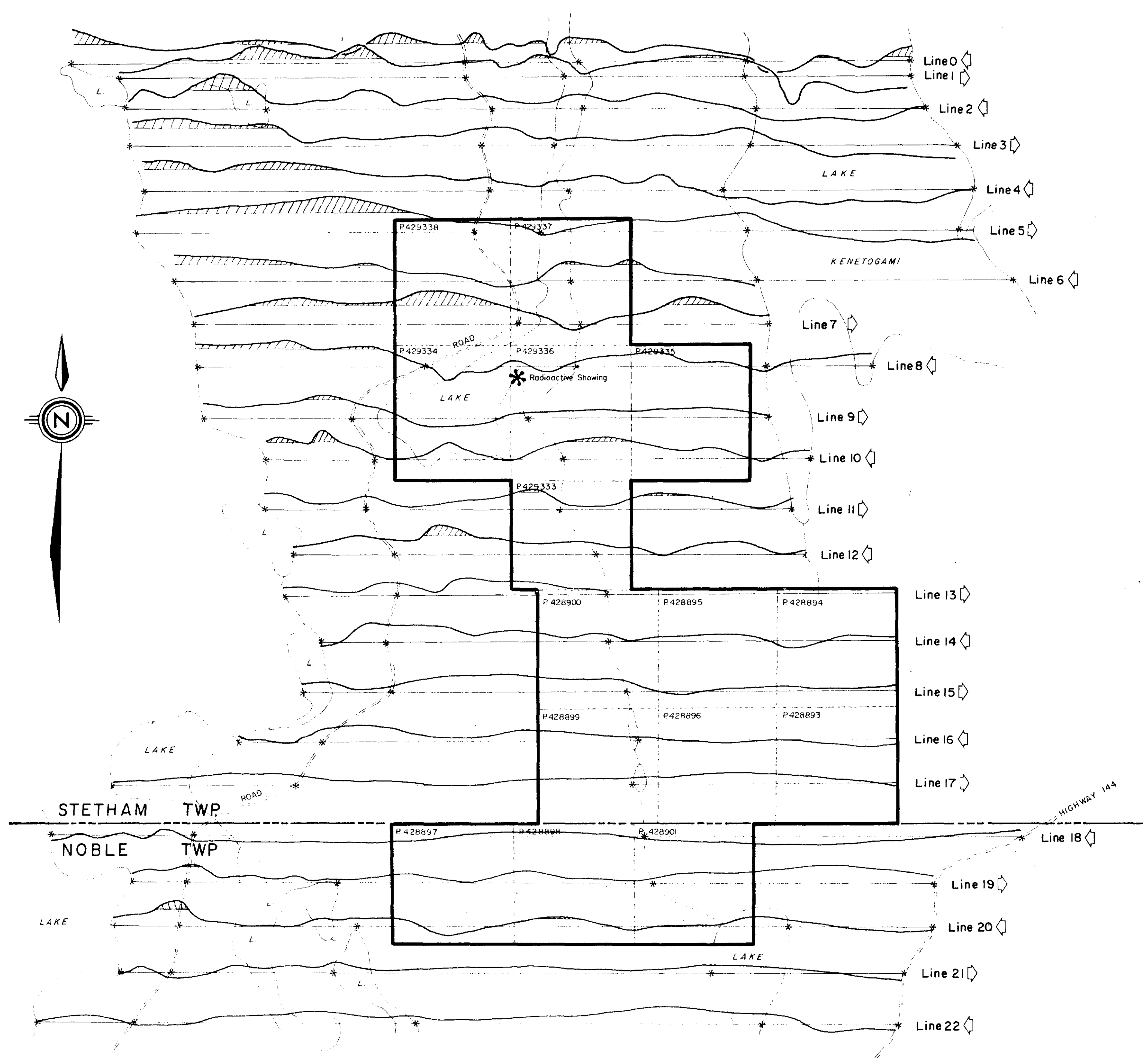
DATE OF ISSUE
JUN - 8 1976
SURVEYS AND MAPPING
BRANCH

PLAN NO. M.1026

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH



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LEGEND

- Line 0 ◊ Flight Line and Direction
- ≈ 40 Ft. Flight Elevation
- * Fiducial Point
- 1" = 50 T.C.S. Profile Scale (Total Count/Second)
- Anomaly
- Instrument Used - Gamma Ray Spectrometer Model Disa-400A
- Recorder Used - Model 7155 A



41P135E0085 2,2131 STETHAM

TYPE OF WORK									
AIRBORNE SPECTROMETER SURVEY									
CLIENT									
BEACH GOLD MINES LTD.									
PROJECT	AREA								
STETHAM-NOBLE TWPS.	SUDBURY DISTRICT, ONT.								
PROSPECTING GEOPHYSICS LTD.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">SCALE</td> <td style="width: 50%;">DATE</td> </tr> <tr> <td style="text-align: center;">1 INCH TO 800 FEET</td> <td style="text-align: center;">MAY 1976</td> </tr> <tr> <td style="width: 50%;">DRAWN BY</td> <td style="width: 50%;">MAP OR SHEET NO.</td> </tr> <tr> <td style="text-align: center;">T. SHAW</td> <td style="text-align: center;"></td> </tr> </table>	SCALE	DATE	1 INCH TO 800 FEET	MAY 1976	DRAWN BY	MAP OR SHEET NO.	T. SHAW	
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