



42A03SW0054 2.4068 BEEMER

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MINING LANDS SECTION

REPORT ON  
LYNCO RESOURCES INC.  
BEEMER TOWNSHIP GOLD PROSPECT  
ONTARIO  
GEOPHYSICAL AND GEOLOGICAL SURVEYS

Scarborough, Ontario  
August 6, 1981

JOHN RAWLINSON LILL  
B.Sc., P.Eng.

## INTRODUCTION

The following reports on the results of magnetic, electromagnetic, radiometric and geological surveys carried out on the gold property of Lynco Resources Inc., Beemer township, Ontario.

## PROPERTY LOCATION AND ACCESS

The property consists of 10 contiguous claims located in the mid-eastern part of Beemer township, Ontario, just north of Telluride Lake.

The claims numbered L 578021 - L 278030 are 28 miles due south of Timmins, Ontario.

The property can be reached by following an all-weather gravel road which runs from Timmins to Matachewan. A road running west from this road partly follows the English-Semple townships boundary then it runs northerly along the west side of Ferrier Lake.

Approximately 3/4 of a mile north of Ferrier Lake, a bush road suitable for tractor or four wheel drive vehicle goes northwesterly and enters the south east part of the property at a distance of about 2 miles.

PROPERTY LOCATION AND ACCESS

Access can be gained by helicopter from Timmins or float plane from Gogama.

TOPOGRAPHY

The property is relatively flat with some low hills mostly in the east and central part, rarely rising above 50 feet.

The area was cut over more than 20 years ago and secondary growth consists mostly of spruce and poplar with some jackpine. Cedar and tag alders grow in swampy areas. Telluride Lake occupies parts of the three south claims.

DEVELOPMENT

Trenching and bulldozing was carried out in the 1930's in four areas that now constitute the claim group.

On what is now L 578021 a pit or shaft has been sunk in a quartz vein.

GENERAL GEOLOGY

A TABLE OF FORMATIONS IS  
GIVEN FOR THE AREA.

CENOZOIC

Recent

Glacial Drift, Clay,  
Muskeg

PRECAMBRIAN

Proterozoic

Mafic Intrusive rocks

Quartz Diabase

Huronian

Sediments

Conglomerate

Archean

Mafic Intrusive rocks

Diabase

Felsic Intrusive rocks

Aplite Dykes  
Granite

Mafic & Ultramafic Intrusive  
Rocks Haileyburian

Diorite  
Gabbro

Felsic To Mafic Volcanics

Rhyodacite  
Andesite  
Basalt

The area is underlain by Keewatin mafic to felsic volcanic rocks.

A large Haileyburian sill, parts of which are  
exposed on the property, consists mainly of gabbro and pyroxenite.

GENERAL GEOLOGY (Continued)

The tightly folded volcanic and intrusive rocks are cut by felsic dykes.

The youngest rocks in the area are quartz diabase dykes.

SURVEY RESULTS

Four surveys were carried out. Geologic, magnetic, electromagnetic and radiometric.

Two base lines were established and lines cut at 400 foot intervals over most of the property except in the vicinity of the showing in the northwest, here lines were cut at 200 foot intervals.

Pickets were put in every 100 feet along these lines.

Base line "A" was cut on an azimuth of  $090^{\circ}$  true and "B" on an azimuth of  $050^{\circ}$  true.

Station 0+00 was common to both base lines.

GEOLOGICAL SURVEY

This was carried out along the section lines. Outcrops although not extensive were in sufficient abundance to give a good idea of the rock types underlying the property.

GEOLOGICAL SURVEY (Continued)

The most abundant types encountered were massive to pillowed andesite and these types were best exposed in the southeast corner of the property in a bulldozed area.

The flows are fairly thin in the order of a few tens of feet. On the east side of the swamp in claim L 578023, an outcrop of tuff was mapped.

The gabbro which was traced by outcrop and the magnetic survey, runs in a northeasterly direction from the north part of Telluride Lake. A quartz vein in claim L 578021 runs along the north edge of this gabbro.

QUARTZ VEINING

Near the north and south parts of claim L 578026 and L 578030, bulldozing has exposed quartz veins in pillowed to massive andesite.

The quartz is white and generally appears to be a series of veins striking roughly east-west. Just north of the road bulldozing has uncovered sheared rock apparently running east-west.

QUARTZ VEINING (Continued)

Some sulphides, mainly pyrite are associated with the quartz veining.

In claim L 578021, a white quartz vein containing pyrite and some pyrrhotite was bulldozed and exposed for about 150 feet. This quartz zone is up to 12 feet wide. Shearing is exposed on the footwall side of this vein, which strikes  $050^{\circ}$  and dips about  $65^{\circ}$  north-west.

A pit or shaft has been sunk on the hanging wall of the quartz vein. Immediately to the south of the quartz vein are exposures of gabbro which trends northeasterly across the property.

MAGNETIC SURVEY

This survey traced the northeasterly striking gabbro from where it is exposed just south of the quartz vein in claim L 578021.

In other parts of the property isolated magnetic highs were encountered. Some may represent parts of the gabbro and others may represent more basic flows in the andesite.

VLF SURVEY

Conductors were located just south of the quartz vein located in claim L 578021 and in areas in association with the magnetic high trending north-east.

VLF SURVEY (Continued)

Other conductive zones were located south of base line "A" but these cannot be correlated from line to line.

Surveying on 200 foot lines might make interpretation and correlation easier.

RADIOMETRIC SURVEY

No anomalies were located during the survey but it was somewhat useful in defining areas of slightly higher ground when the readings were 20 - 30 CPS higher than those taken in swampy areas.

CONCLUSIONS & RECOMMENDATIONS

The north-east trending quartz vein exposed by bulldozing in claims L 578021 and L 578022 and with associated VLF conductor and gabbro, appears to be the structure of most economic importance located on the property to date.

In previous years, assays of samples taken from here returned erratic gold values. Some of which ran over 1 oz. of gold per ton.

There were no significant geophysical results obtained over the area of quartz veining located at the junction of claims L 578026, L 578025 and L 578030.

CONCLUSIONS & RECOMMENDATIONS (Continued)

Four claims should be staked along the north boundary of the property to protect the down dip extension of the main quartz vein and possibly other parallel zones.

Trenches which are located from base line "A" at 6+00N on line 6+00E and just south of base line "A" at 23+00E, should be cleaned out and examined.

Diamond drilling consisting of three or four holes should be conducted along the northeast extension of the main quartz vein which is located in claim L 578021.

This report is respectfully submitted.

.....*John Rawlinson Lill*.....  
John Rawlinson Lill, B.Sc., P.Eng.





Ministry of Ni

GEOPHYSICAL - GEOL  
TECHNICAL DA



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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT  
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT  
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS AND RECOMMENDATIONS  
AUG 1 0 1981  
MINING CLAIMS SECTION

Type of Survey(s) ELECTROMAGNETIC  
GEOLOGICAL RADIMETER, MAGNETIC

Township or Area BEEMER

Claim Holder(s) LYNCO RESOURCES INC.

Survey Company JOHN R. LILL

Author of Report JOHN R. LILL

Address of Author 40 FIRTH CRES. SEAR. CWT MIG-255

Covering Dates of Survey JUNE 11/81 JULY 15/81  
(line cutting to office)

Total Miles of Line Cut 5.9

**SPECIAL PROVISIONS  
CREDITS REQUESTED**

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

ENTER 20 days for each  
additional survey using  
same grid.

Geophysical

DAYS  
per claim

-Electromagnetic 20

-Magnetometer 20

-Radiometric 20

-Other \_\_\_\_\_

Geological 40

Geochemical \_\_\_\_\_

**MINING CLAIMS TRAVERSED**  
List numerically

(prefix)	(number)
L	578021
L	578022
L	578023
L	578024
L	578025
L	578026
L	578027
L	578028
L	578029
L	578030

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: AUG 7/81 SIGNATURE: John R. Lill  
Author of Report or Agent

Res. Geol. \_\_\_\_\_ Qualifications 63A, 426

**Previous Surveys**

File No.	Type	Date	Claim Holder
			<u>L.D.</u>

TOTAL CLAIMS 10

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 285 Number of Readings 2244  
 Station interval 100 FEET READINGS 50 FEET Line spacing 400 FEET + 200 FEET  
 Profile scale 1" = 30%  
 Contour interval 500 GAMMAS

**MAGNETIC**

Instrument M<sup>o</sup> PHAR M500A  
 Accuracy – Scale constant + 5 GAMMAS  
 Diurnal correction method BASE + CONTROL STATIONS CHECK  
 Base Station check-in interval (hours) 1/2 - 1 HOUR  
 Base Station location and value BASE STATION BL "A" 0700 320 GAMMAS  
CONTROL STATIONS BL "A" 8700E 240 GAMMAS 16700E 240 GAMMAS

**ELECTROMAGNETIC**

Instrument RONKA EM-16  
 Coil configuration FIXED VERTICAL AND HORIZONTAL  
 Coil separation \_\_\_\_\_  
 Accuracy + 1%  
 Method: ☒ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line  
 Frequency CUTLER MAINE 17.86 KHZ  
(specify V.L.F. station)  
 Parameters measured IN PHASE AND QUADRATURE COMPONENTS OF VERTICAL FIELD

**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 McPHER TC 33A

Values measured TOTAL GAMMA COUNT

Energy windows (levels) 0.1 MEV AND HIGH COUNTS PER SECOND

Height of instrument WAIST HEIGHT Background Count 30 CPS

Size of detector 1.5" IN DIAMETER BY 1.5" IN HEIGHT VOLUME 2.65 CUBIC INCHES

Overburden VARIALE - DEPTH TO MANY FEET SAND, GRAVEL + MUSKEG  
(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey GEOLOGICAL

Instrument GEOLOGIST JOHN R. LILL

Accuracy ROCK TYPES

Parameters measured STRIKE + DIP. CONTACTS, ETC.

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 \_\_\_\_\_

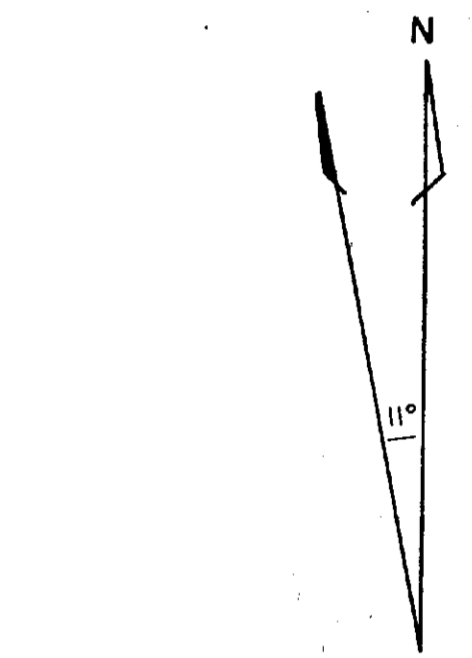
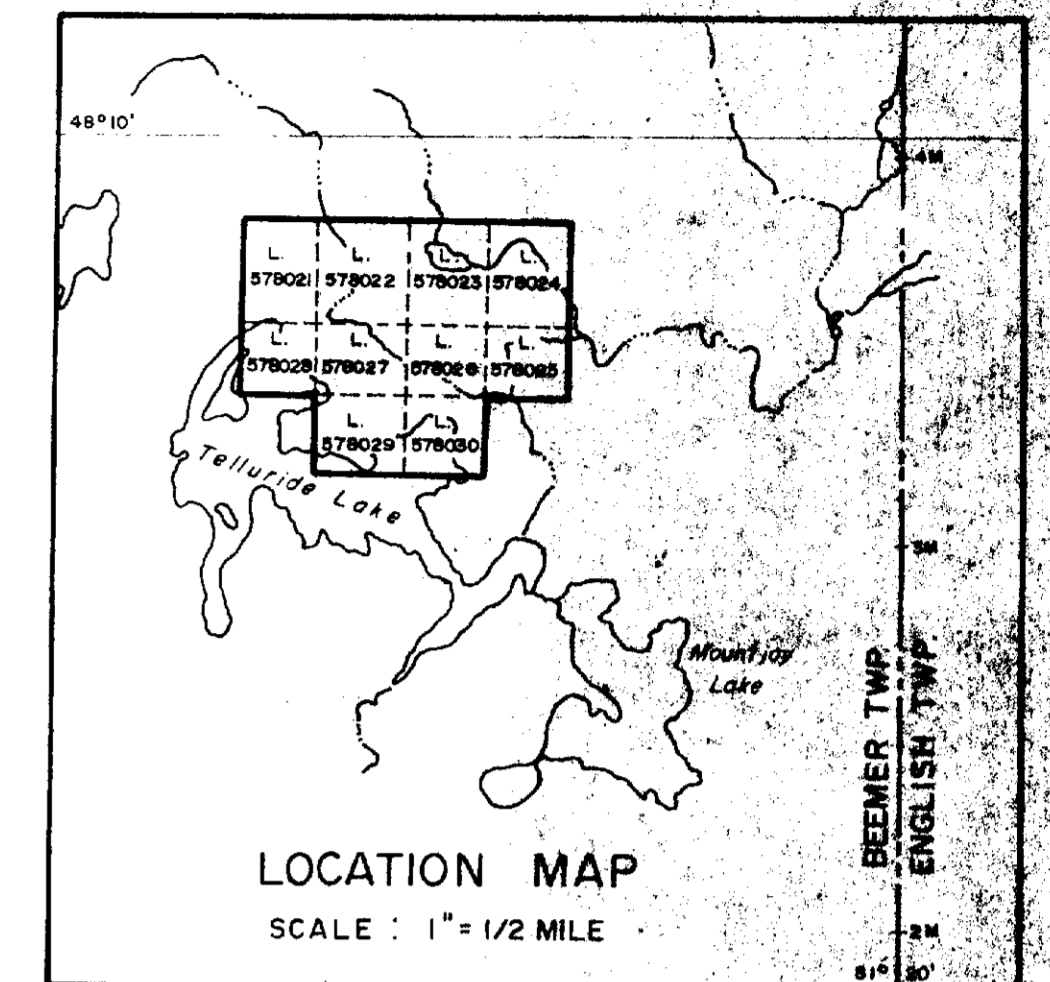
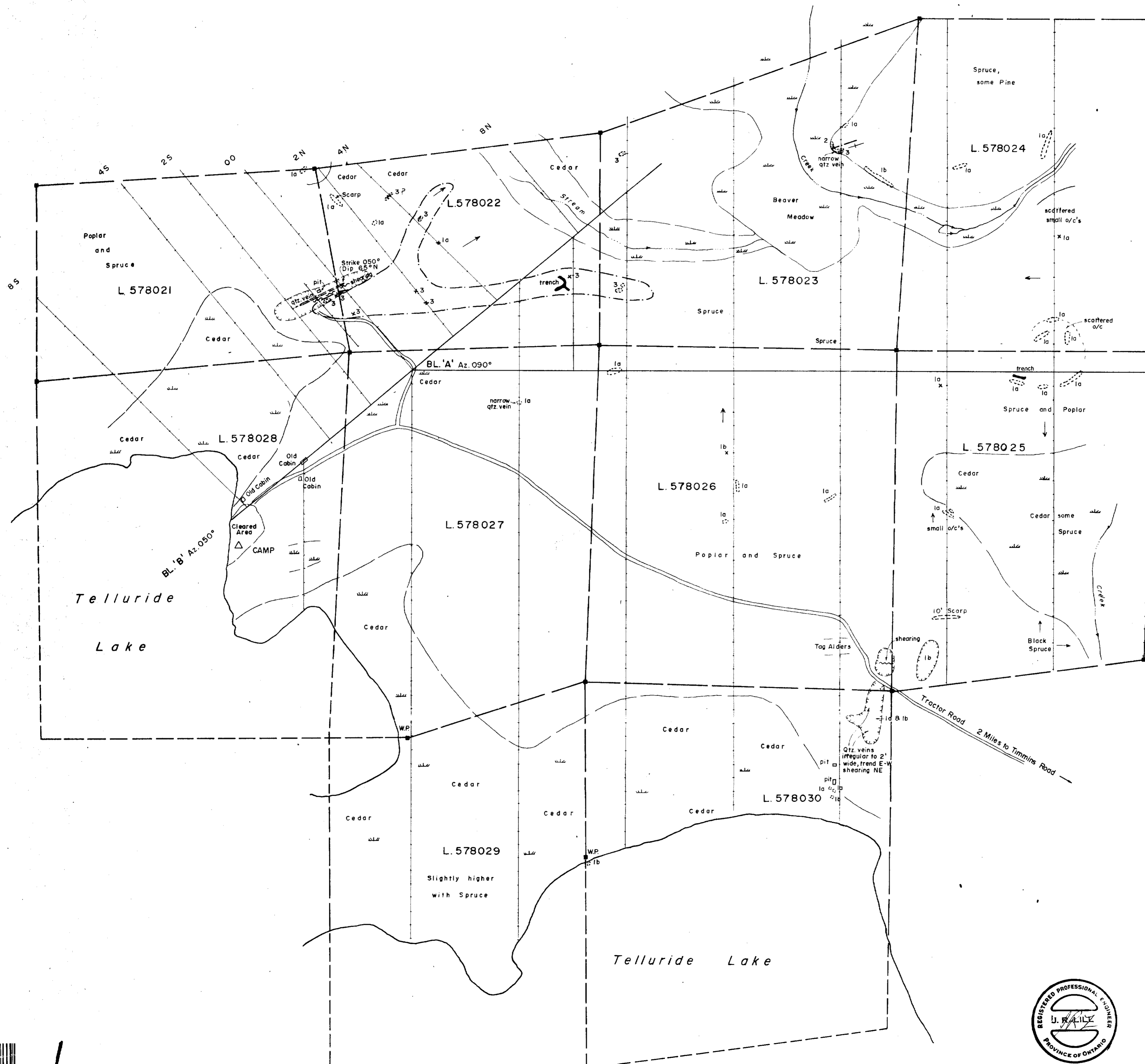
Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General \_\_\_\_\_

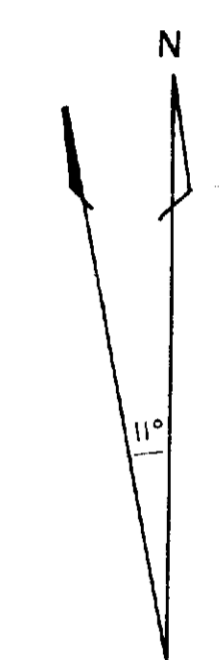
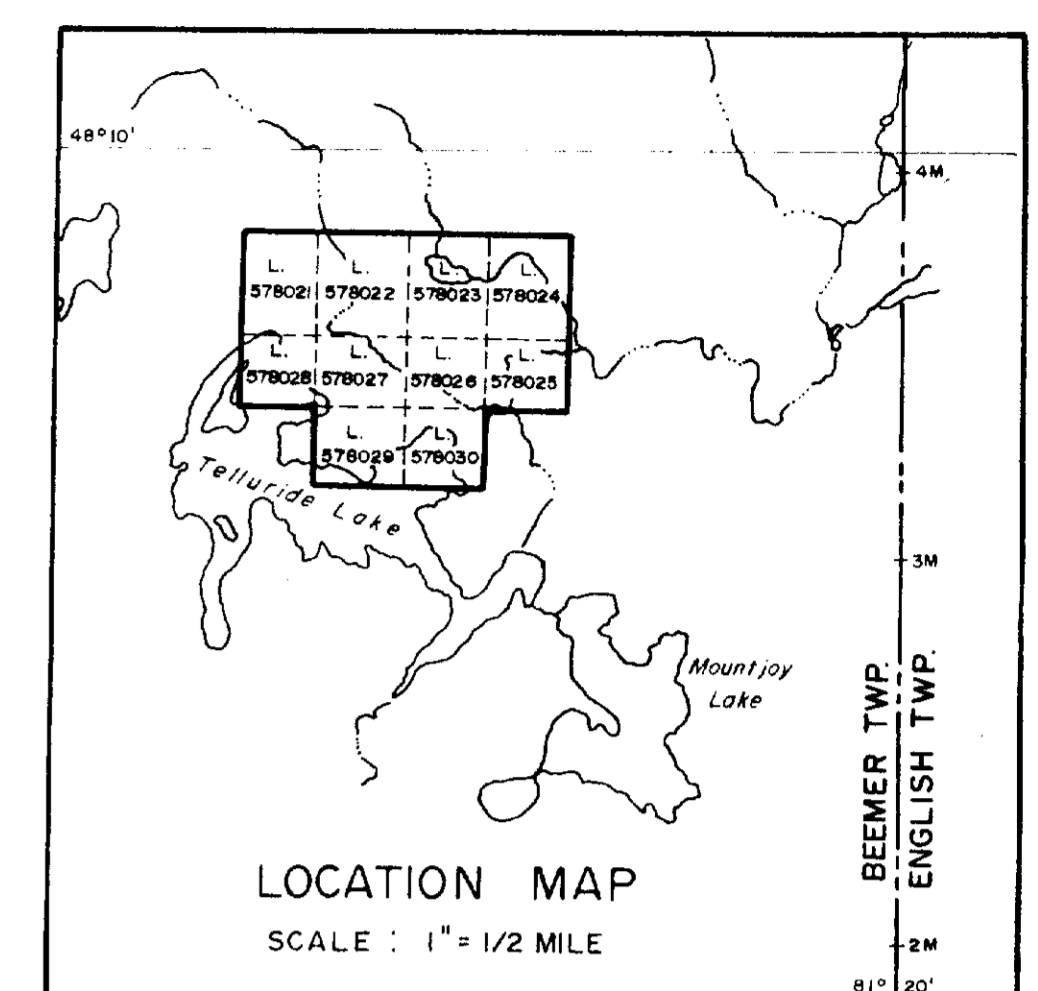
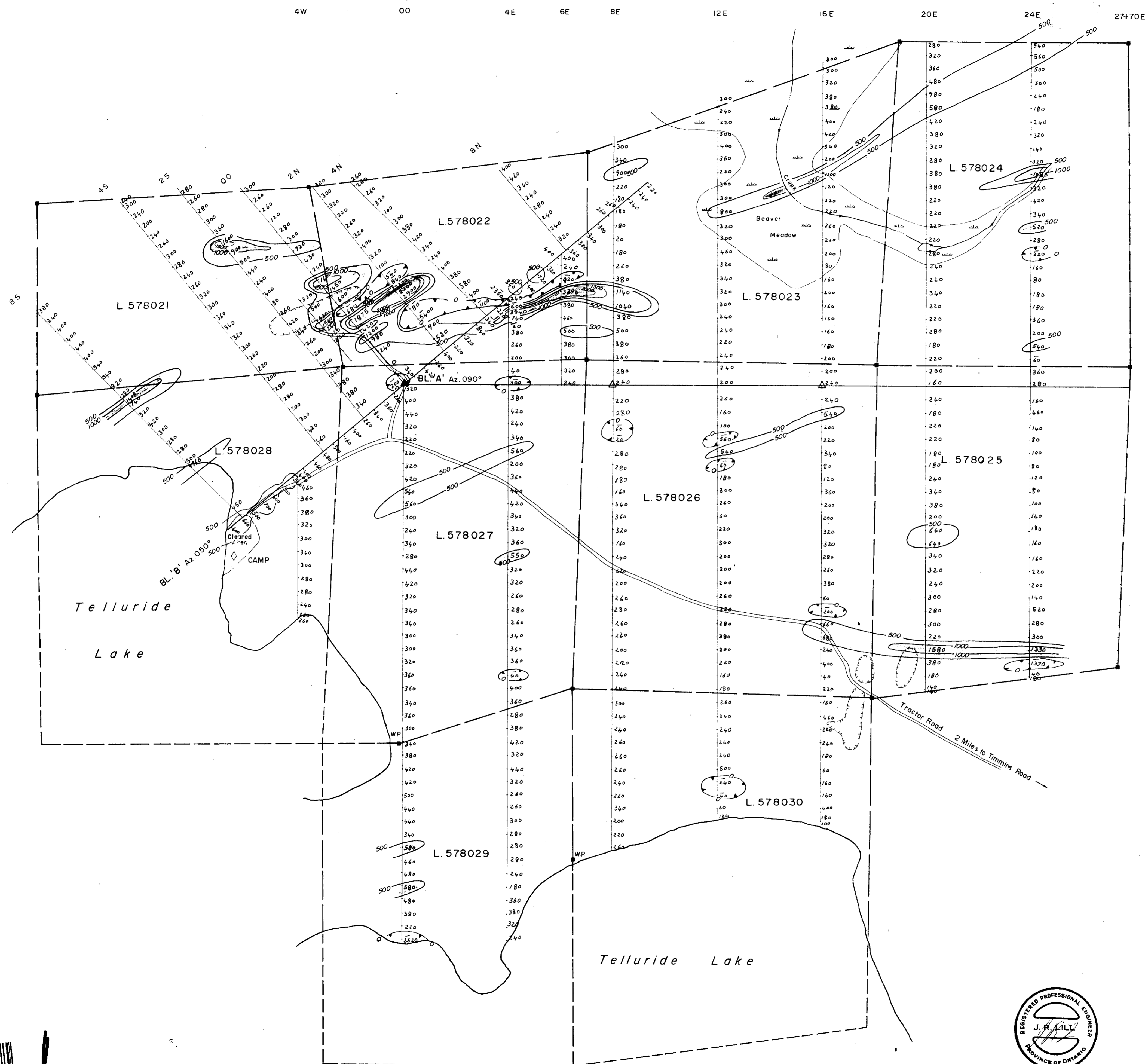
4W 00 4E 6E 8E 12E 16E 20E 24E 27+70E



- LEGEND**
- 1 1 ANDESITE
    - a) massive
    - b) pillowed
  - 2 2 TUFF
  - 3 3 GABBRO
  - Down slope
  - Outcrop
  - x Small outcrop
  - - - Approximate geological boundary
  - Trench
  - ⊞ Bulldozed area
  - ⊞ Swampy ground
- Survey dates: June 11-20, 1981

LYNCO RESOURCES INC.  
 GEOLOGICAL SURVEY  
 BEEMER TOWNSHIP PROPERTY  
 LARDER LAKE MINING DIVISION, ONTARIO  
 J. LILL SCALE: 1" = 200' JULY 15, 1981

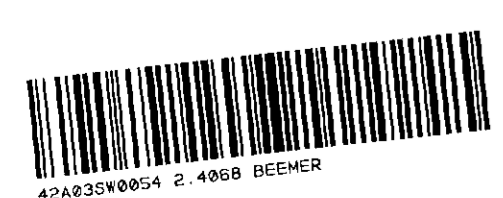


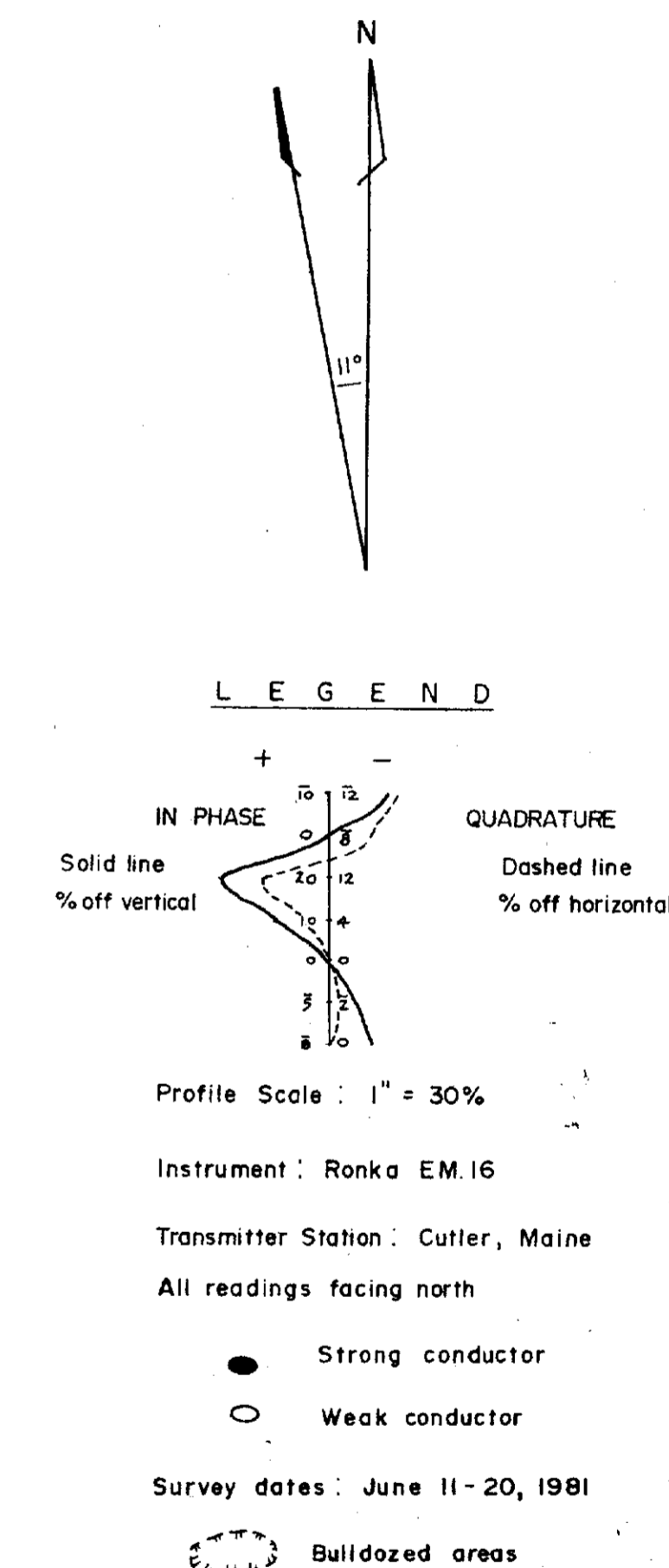
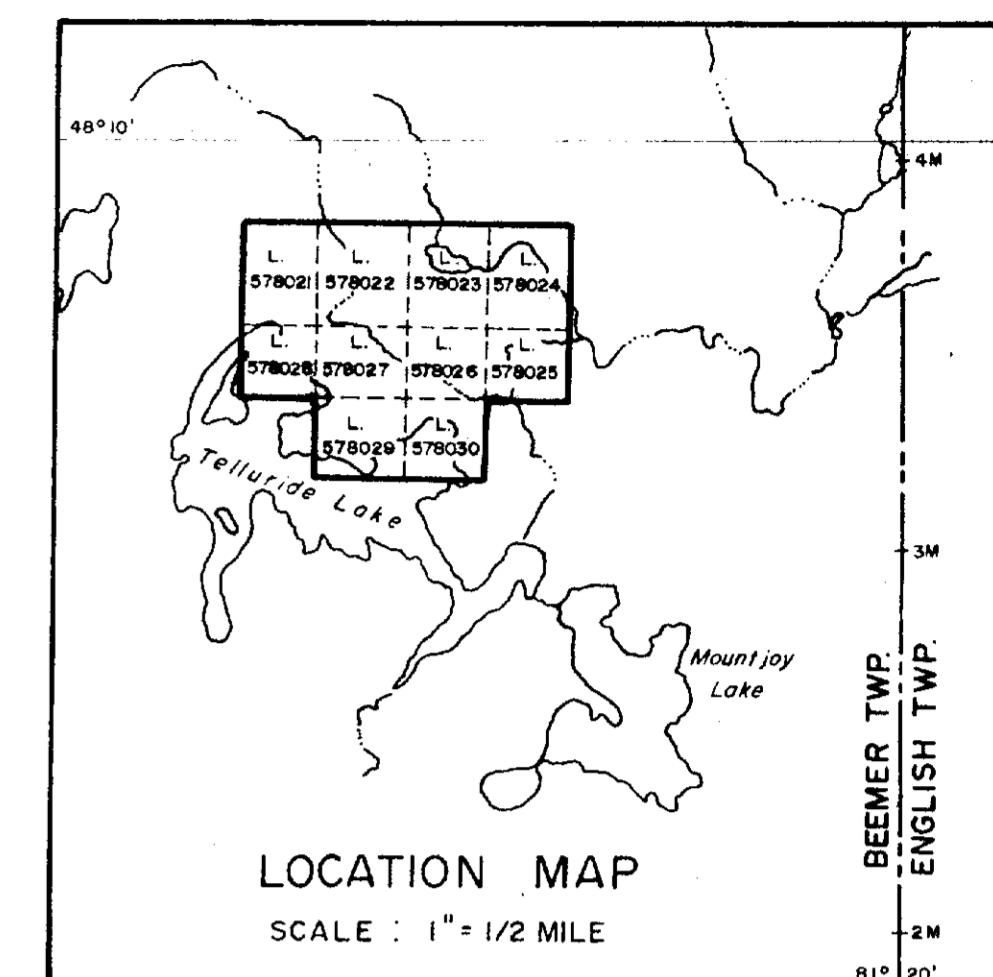
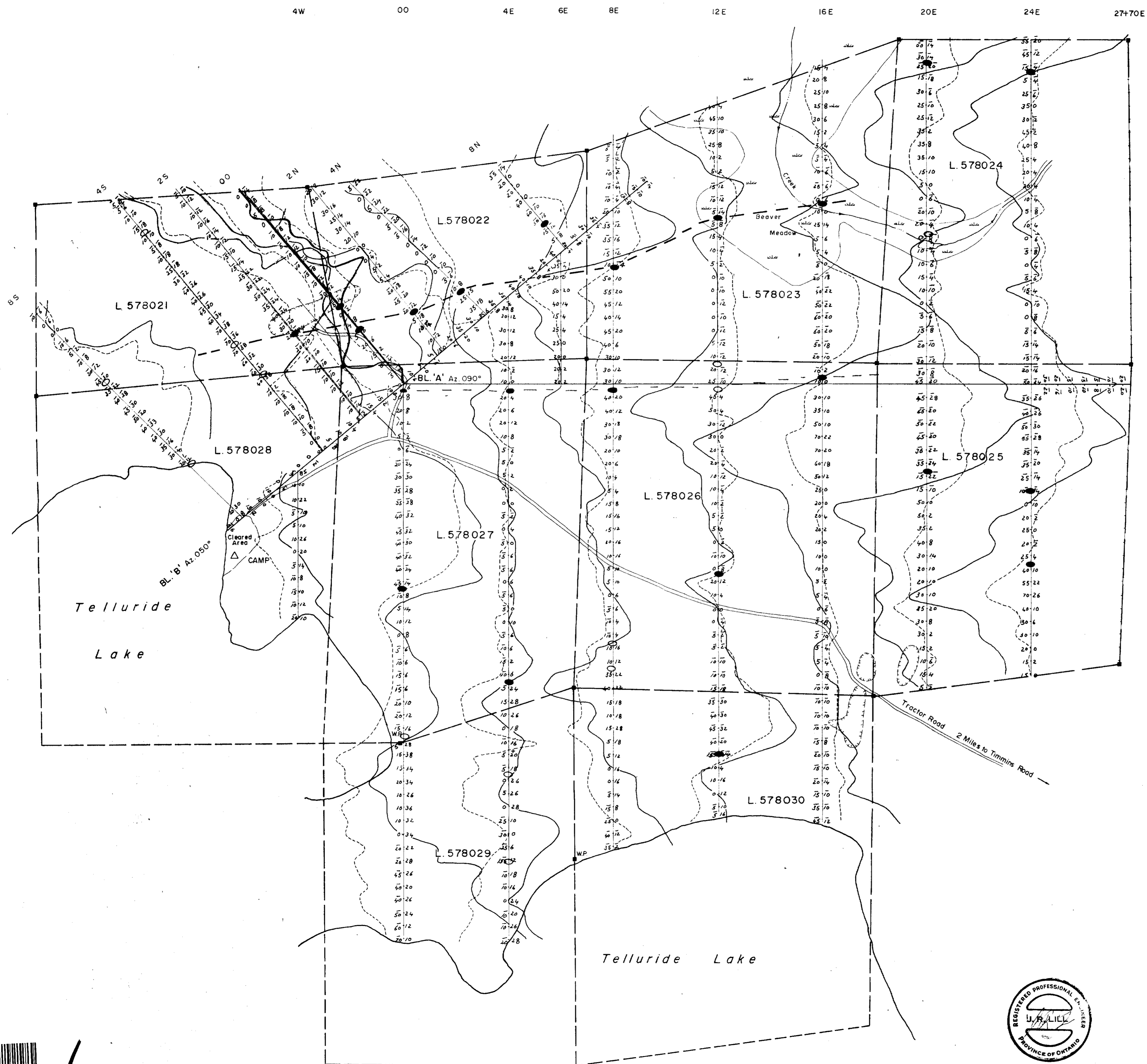


L E G E N D

- Station, reading in gammas
- Base station
- Control station
- Contour interval: 500 gammas
- Over 2000 gammas
- 1500 - 2000 gammas
- 1000 - 1500 gammas
- 500 - 1000 gammas
- Under 500 gammas
- Instrument: McPhar M 500A
- Survey dates: June 11 - 20, 1981
- Bulldozed area

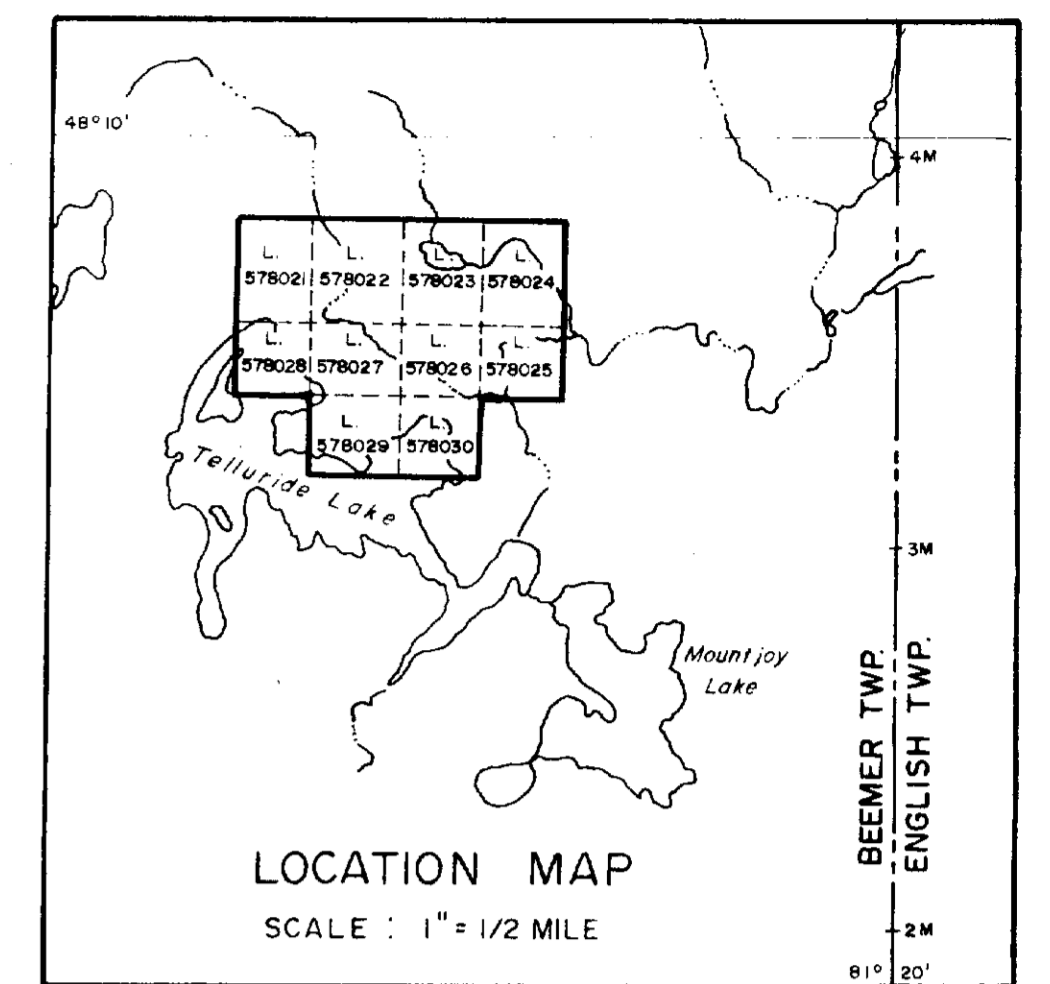
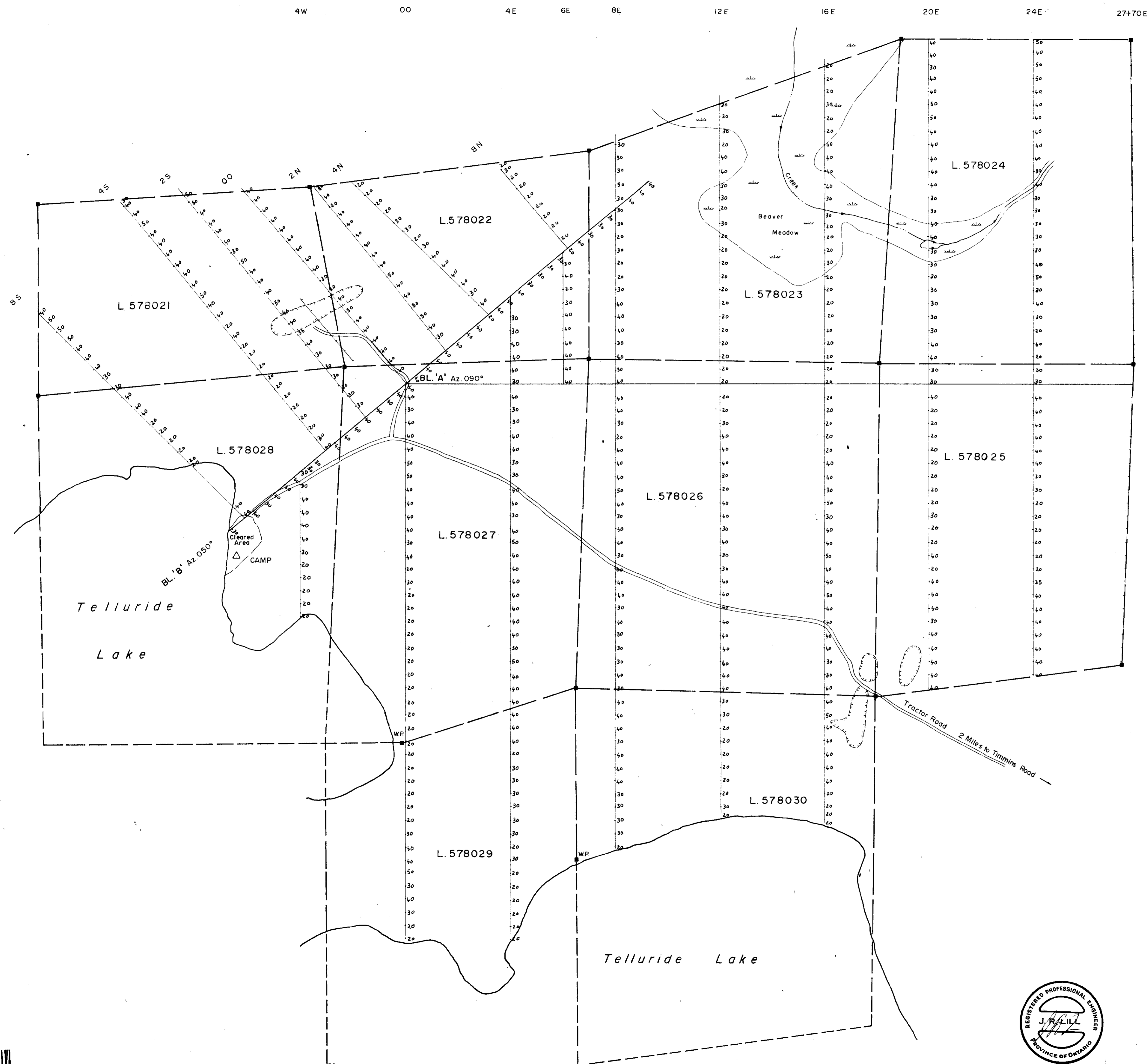
LYNCO RESOURCES INC.  
 MAGNETOMETER SURVEY  
 BEEMER TOWNSHIP PROPERTY  
 LARDER LAKE MINING DIVISION, ONTARIO  
 J. LILL SCALE: 1" = 200' JULY 15, 1981





LYNCO RESOURCES INC.  
ELECTROMAGNETIC SURVEY  
BEEMER TOWNSHIP PROPERTY  
LARDER LAKE MINING DIVISION, ONTARIO  
J. LILL SCALE: 1" = 200' JULY 15, 1981





# LEGEND

Station, reading in counts per second at all Gamma Energy levels of 0.1 Mev and higher

Instrument: MCPHAR TC 33A

Instrument elevation: Hip level

Survey dates: June 11 - 20, 1981

Bulldozed areas

LYNCO RESOURCES INC.  
SCINTILLOMETER SURVEY  
BEEMER TOWNSHIP PROPERTY  
LARDER LAKE MINING DIVISION, ONTARIO  
J LILL SCALE: 1" = 200' JULY 15, 1981

