

Return



52C16SW8243 2.10548 BENNETT LAKE

010

Wesley L. and
V.L.F. S.W.

Mining Claims

K 500422 and K 500423

Bennett Lake area

Genesee Mining Division

Ontario

Prepared By

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Box 117
Madison, OH
40028

October 27, 1987

RECEIVED

NOV 19 1987

MINING LANDS SECTION

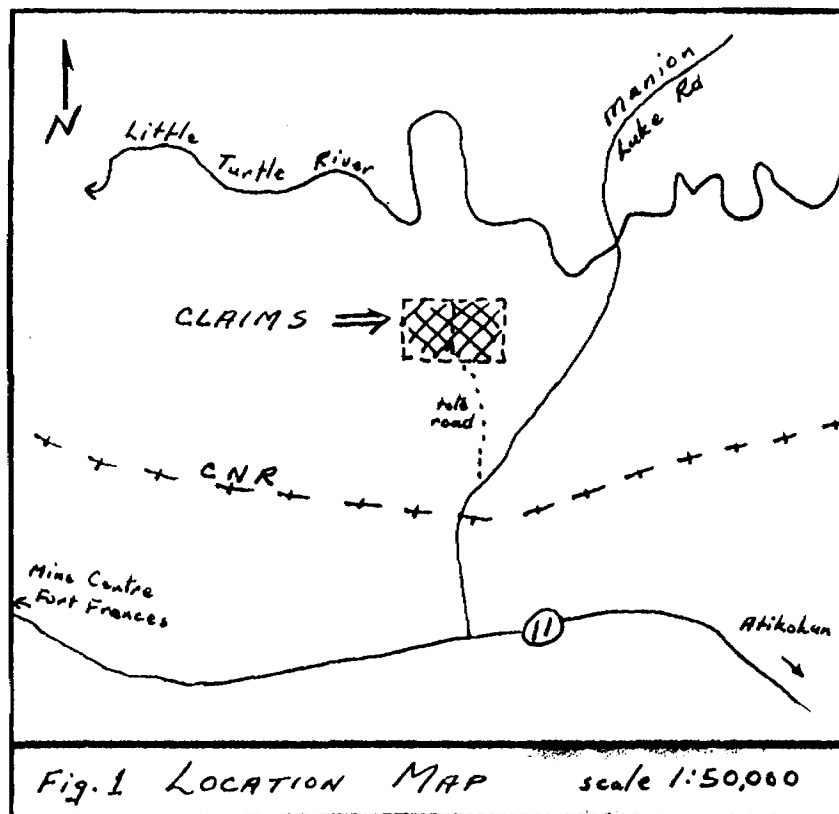
Introduction:

Claims K 5309477 and 478 cover the workings of the Alice B mine - a gold showing discovered during the 1890's. Vertical magnetic and VLF surveys were conducted to further clarify the structural setting of the gold occurrence.

Location and Access:

The claims are located about 1.5km north of Hwy. 11, 13km east of Mine Centre between Atikokan and Fort Frances in Northwestern Ontario. A side road leads to the claims from the Harlow Lake Road 1km north of Hwy. 11.

The location and access are shown in FIG. 1.



Previous Work:

During the 1890's two shafts and several trenches and test pits were dug. The shafts are reported to be 50 and 100 feet deep. Recent work has included spot checks, trenching, sampling and analyses.

Geology:

The gold occurrence consists of a series of drag-folded quartz veins within an area 38x60m. Sulphides are common in this area and appear to be closely associated with the presence of gold. Other veins are present on the claims however they are not drag-folded, contain very sparse sulphide and only a trace of gold.

The main rock types are a series of felsic volcanics. Lesser quantities of intermediate volcanics also occur. All have been folded and/or sheared with the development of sericite and chlorite. The Rustico Fault, a major regional structure lies about 0.5km to the north of the claims.

Vertical Magnetic Survey:

Results of this survey are presented in Fig.2.

The results confirm the general east-west trend of the formations. The higher magnetic values indicate the intermediate volcanics with their higher magnetic susceptibilities and appear to outline the folding. At 0+75N on line 31GE the rocks do not indicate any feature which would account for the highest value on the property.

VLF Survey:

Results of this survey are presented in Fig.3.

The results indicate a number of weak generally east-west conductors. The conductor at 1487N on 31GE is due to a shear zone. This is exposed in a trench and consists of chlorite with a few quartz stringers.

The remaining conductors are most likely due to conductive clay overburden occupying depressions in the bedrock.

Conclusions:

Geophysical surveys carried out to date do not yield a distinct signature for the gold occurrence.

The vertical magnetic survey does indicate some promise as a tool to define the structure.

Induced Polarization or a geochemical technique may provide a distinct signature for the gold mineralization.

Recommendations:

An orientation induced polarization survey should be undertaken to determine the application of this method to the discovery of additional zones of similar mineralization believed to occur in the area.

An examination of the geochemical associations the known gold occurrence is underway. Based on the results a geochemical survey should be carried out.

ALICE A PROPERTY
 BENNETT LAKE AREA
 KENORA MINING DIV.
 ONTARIO

scale 1:2500

Legend

- tote road -----
- base line ----- BL
- picket line |
- claim corner □
- claim line - - - - -

VLF SURVEY

in phase		quadrature		Fraser Filter Value
6	4	14	14	
-3	-8			

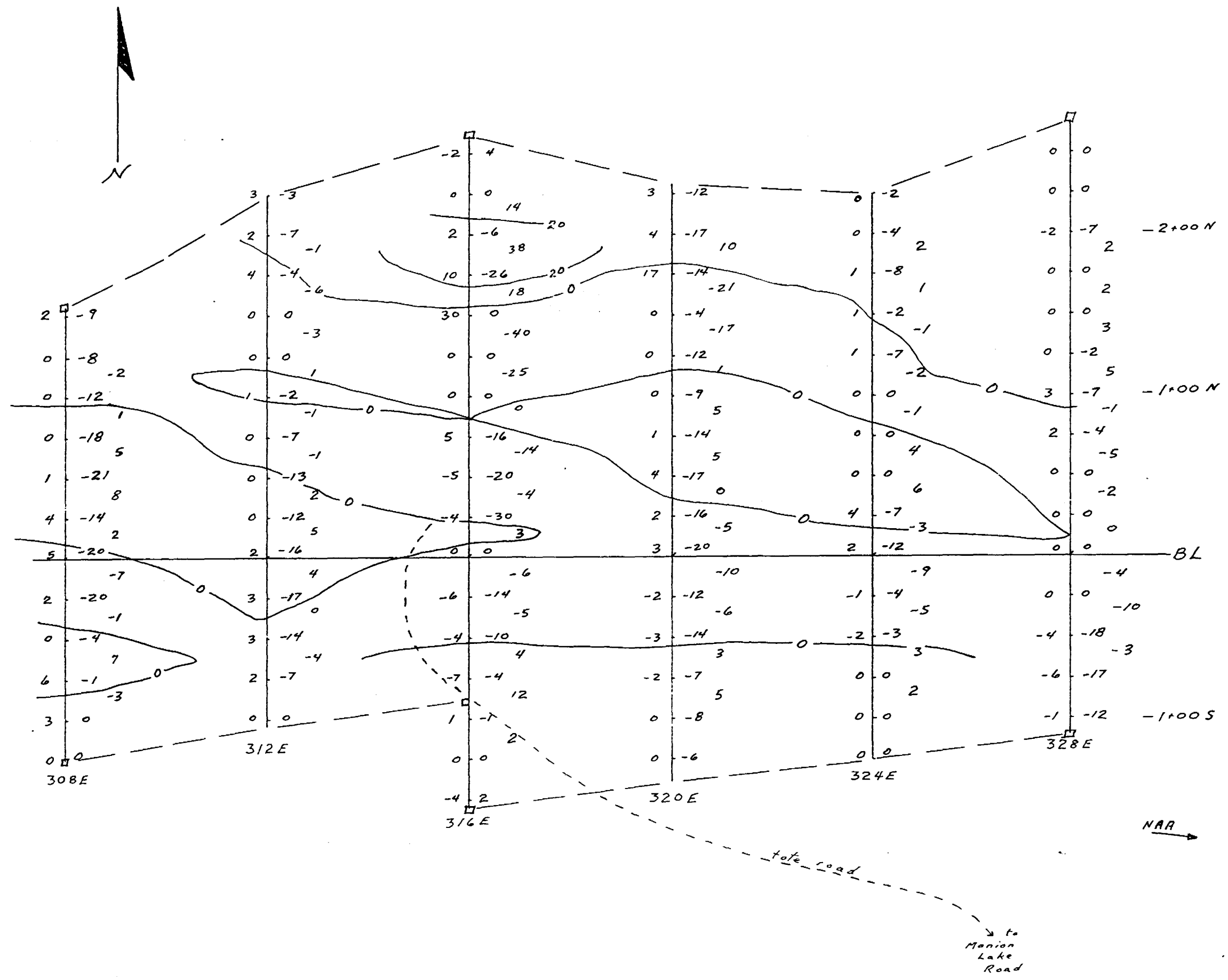


Fig. 3

Oct. 27/87

JW Redden

ALICE A PROPERTY
 BENNETT LAKE AREA
 KENORA MINING DIV.
 ONTARIO

scale 1:2500

Legend

- total road -----
- base line ----- BL
- picket line |
- claim corner □
- claim line -----

MAGNETIC SURVEY

corrected value *

160

* values corrected to a Base Station reading of +1608 to eliminate negative numbers

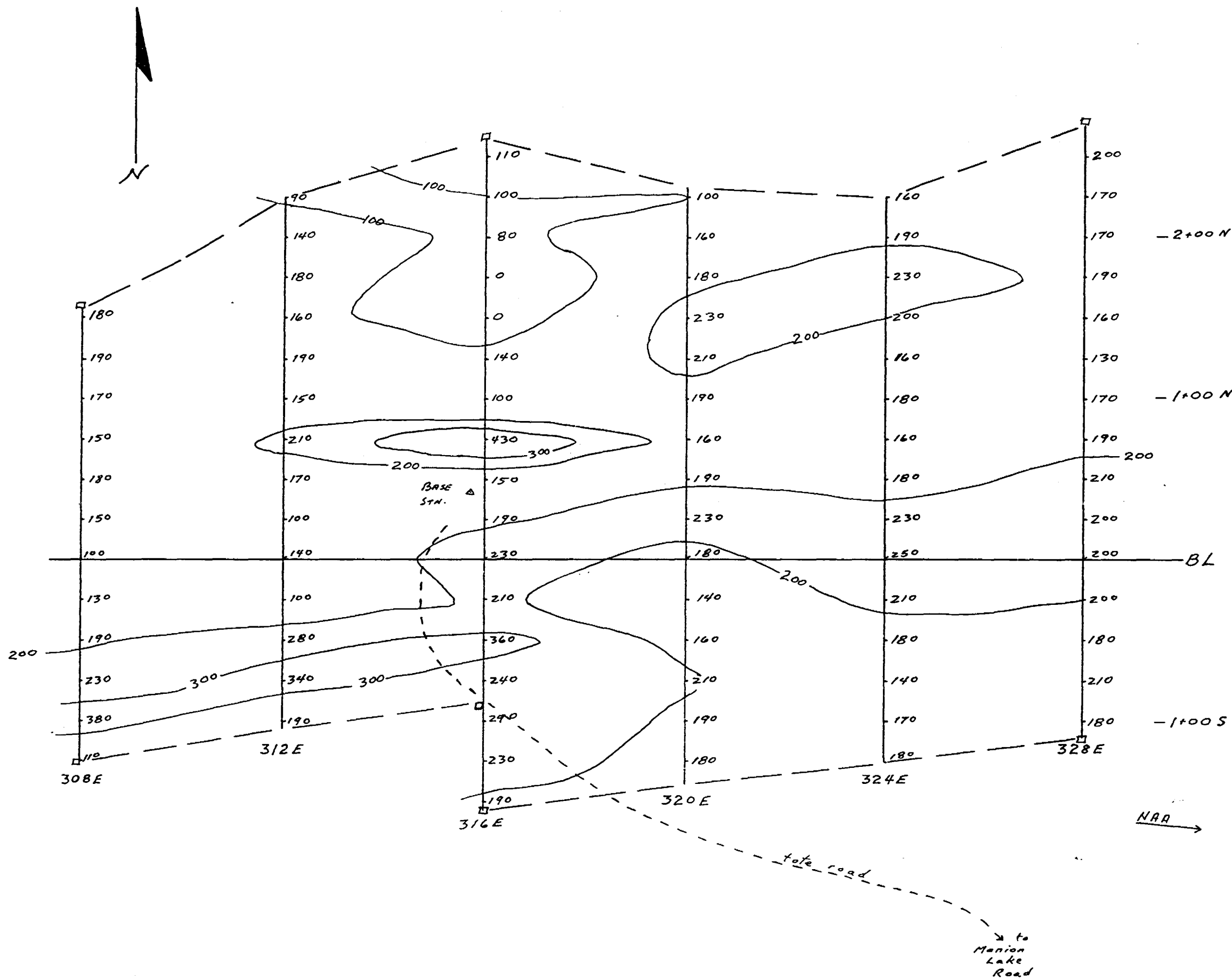


Fig. 2

Oct. 27/87

J.W. Kedden



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) MAGNETIC & ELECTROMAGNETIC

Township or Area BENNETT LAKE AREA

Claim Holder(s) J. W. REDDEN

Survey Company J. W. REDDEN

Author of Report J. W. REDDEN

Address of Author Box 117 WABIGON ONT P0V2W0

Covering Dates of Survey May 25/85 - Oct 16/87
(linecutting to office)

Total Miles of Line Cut 2

MINING CLAIMS TRAVERSED
List numerically

K 580422
(prefix) (number)
K 580423

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	_____
Geochemical	_____

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

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

DATE: 17/11/87 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 21912

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 2

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 89 Number of Readings 89 (+4 for mag)
Station interval 25m Line spacing 122m (400')
Profile scale
Contour interval magnetic: 50 gamma, 0 + 120 : VLF

MAGNETIC

Instrument McPhar M700
Accuracy - Scale constant +/- 5 gamma
Diurnal correction method assumed linear drift between base stn. tie-in
Base Station check-in interval (hours) 1.5 hr
Base Station location and value 5m west of 316E 0+40mN
assigned value +160 gamma

ELECTROMAGNETIC

Instrument GEONICS EM-16
Coil configuration
Coil separation
Accuracy
Method: [] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency CUTLER NAA 24.0 KHz (specify V.L.F. station)
Parameters measured IN PHASE, QUADRATURE

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 _____

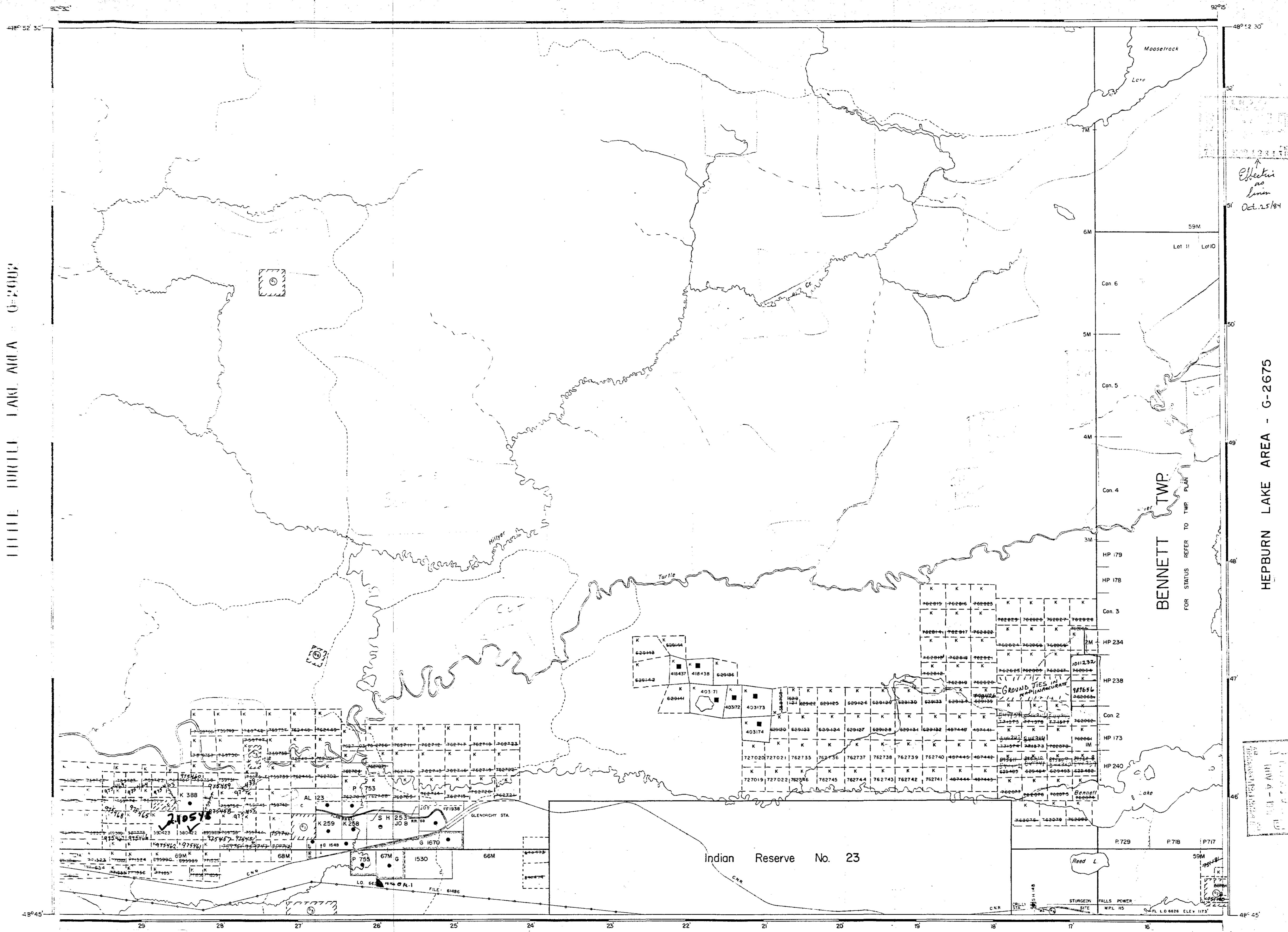
Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

MANION LAKE AREA - G-2686



LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS & BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OF COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◑
" MINING RIGHTS ONLY	◒
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊖
SAND & GRAVEL	⊕

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

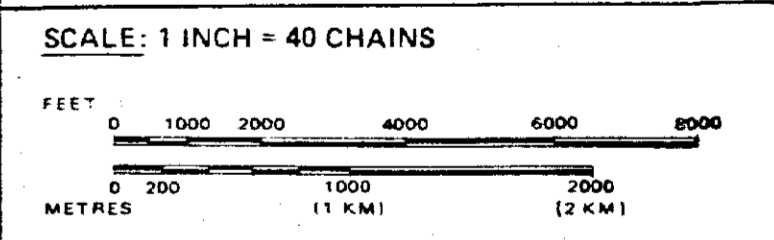
REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

Description	Order No.	Date	Disposition	File
M.R.O. - MINING RIGHTS ONLY				
S.R.O. - SURFACE RIGHTS ONLY				
M.+S. - MINING AND SURFACE RIGHTS				

SAND AND GRAVEL

⊕	GRAVEL FILE 162718
⊕	M.T.C. PIT 1089
⊕	GRAVEL FILE 162718
⊕	M.T.C. PIT 1058
⊕	GRAVEL FILE 16799 vol.7
⊕	M.N.R. Gravel Reserve No 22B, File 162718
⊕	M.T.C. PIT N° 1B-14



AREA **2.10548**
BENNETT LAKE
 M.N.R. ADMINISTRATIVE DISTRICT
FORT FRANCES
 MINING DIVISION
KENORA
 LAND TITLES / REGISTRY DIVISION
RAINY RIVER

Ministry of Natural Resources
 Land Management Branch
 Ontario

Date: FEBRUARY, 1984
 Number: **M-2392** **G-2667**



WILD POTATO LAKE AREA - G-2703