REPORT ON GEOLOGICAL MAPPING AND SCINTILLOMETER SURVEY ON MISFIT LAKE PROPERTY IN THE PATRICIA MINING DIVISION, ONT.

Concentrated Rare Earth Minerals Ltd.

By H. Dowhaluk,
Tamworth, Ont.,
Nov. 13, 1988

INTRODUCTION

Geological mapping and a scintillometer survey were carried out by the writer on the Misfit Lake property of Concentrated Rare Earth Minerals Ltd during the period of September 6 to October 16, 1988. Altogether, 7.3 miles of lines, previously cut, were surveyed. These lines are spaced 400 feet apart and scintillometer readings were taken every 100 feet for a total of 370 stations. The auditory feature of the scintillometer was used to check the lines between stations and to check outcrops in order to spot any significant deviation from the readings at the stations. The readings and the geological data were plotted on a map at a scale of 1 inch equals 200 feet.

PROPERTY, LOCATION, ACCESS

The nine claims covered by this report are owned by:

Concentrated Rare Earth Minerals Ltd.,
#404 - 20 Eglington Ave. W.,
Box 2038, Toronto, Ont., M4R 1K8

These claims are numbered 912891 to 912897 (7 claims) in the unsurveyed Kabik Lake Area and 910985 and 910986 in Pickerel Township, District of Kenora and Patricia Mining Division. These two claims are described further as:

910985 covers the SE $\frac{1}{4}$ of the S $\frac{1}{2}$ of Lot 1, Conc VI
910986 covers the NE $\frac{1}{4}$ of the S $\frac{1}{2}$ of Iot 1, Conc VI

These nine claims consist of about 40 acres each for a total of 360 acres, more or less.

The claims are situated about 20 kilometers southwest of the town of Sioux Lookout and straddle the old highway No. 72 where it passes to the south and east of Misfit Lake. These claims are shown on the MNR map G-2079, 'Kabik Lake and Pickerel Township'. The area is covered by the 1:50,000 NTS map, 52F/16, 'Sandybeach Lake '.

Access is by road; the old highway 72 forms a southerly loop off the new highway.

TOPOGRAPHY and VEGETATION

Misfit Lake is 1,198 feet above sea level. The communications tower hill and another hill east of the north end of Misfit Lake are both about 1,296 feet. Most of the terrain is rolling to flat with areas of hummocky outcrops. Wooded swamps are roughly parallel to the strike of the formations and probably reflect glacial grooving to some extent.

The entire property is forested except for the clearing around the communications tower and Misfit Lake. The claim-area has been logged in the past. Balsam fir is by far the most predominant tree on the property; other species are white and black spruce, white cedar, white pine, jack pine, aspen poplar and birch. Speckled alder is abundant in wet areas. The forest floor is covered by a layer of sphagnum moss.

PREVIOUS WORK

Prospecting, mapping and 1,014 feet of diamond drilling was carried out in 1960 by Batch River Gold Mines Ltd. The main showing was located on the south side of the old highway 72 on the present line 4-E. A quartz stockworks across a width of 15 feet strikes northeast. Diamond drill hole No. B-4 returned 0.10 oz/t gold over six feet. (Report by J.D. Williamson, 1960).

Line-cutting and a magnetometer survey were carried out by the present company in 1987.

SCINTILLOMETER SURVEY

The SRAT SPP-2-NF scintillometer used for the survey measures alpha, beta and gamma rays in counts per second. It has five scales - 150, 500, 1500. 5,000, 15,000 c/s.

The average reading in this survey was 31 c/s. The highest readings (55 c/s) were over deposits of gravelly till; the lowest readings were over deep swamp (10 c/s). Typical readings on outcrop were 20 c/s. There are no readings that refelct any significant radioactivity and the entire set of readings may be considered simply as 'background'.

TABLE OF FORMATIONS

CENOZOIC

RECENT Swamp deposits, soil

PLEISTOCENE Gravel, sand, clay

PRECAMBRIAN

Basic Intrusives

3. Pyroxenite

Sediments, schist

2c Sericite-carbonate schist, phyllite

2b Chlorite-carbonate schist

2a Mudstone, argillite

Volcanics

1f Tuff, lapilli tuff

1e Fragmental lava

1d Pillow lava

1c Greenstone schist, schistose greenstone

1b Andesite porphyry

1a Massive andesite

GEOLOGY

The entire property is underlain by andesitic volcanics. Most of the rock consists of massive to schistose andesite. Pillow lava occurs in places but where observed, it was stretched out and difficult to recognize as such. Tops could not be made out. Layers of tuff are frequent and are well exposed just north of the communications tower.

The strike of the formations is about N 70°E and the dip varies from 70° to 85° to the northwest. There is a great deal of shearing in these rocks. On the north side of Misfit Lake at the west end, there are two sets of shearing which intersect at 25°.

ECONOMIC GEOLOGY

The showing on the south side of the highway is a stockworks

of small quartz veins some 15 feet wide with individual veinlets up to six inches wide. These are subparallel to the strike of the formations but dip in the opposite direction as much as 45° to the southeast. Two holes underneath this showing were drilled by Batch River Gold Mines. At a vertical depth of 65 feet (DDH B-1) only negligible gold values were returned while a deeper hole (B-4) returned 0.10 oz/t gold over six feet. A section on holes B-1 and B-4, shows the zoneto dip 70° to the southeast. This zone was picked up in DDH B-2 100 feet to the southwest with low values (0.06 oz/t), but was not picked up in B-3 which was drilled another 100 feet to the southwest.

The present mapping picked up a shatter zone with ladder quartz just west of the communications tower and a three-inch quartz vein east of the tower. These are pretty well on strike with the showing discussed above. The shatter zone west of the tower is 1.5 to 3.0 feet wide with one-inch ladder rungs as well as some small gash veins. The alignment of these features suggest some kind of 'break' - a single-event type of shock that was sufficient to open up numerous fractures but not sufficient to create a continuous opening. The quartz is typically barren, white and irregular. Williamson, however, reports some pyrite and tourmaline in the main showing.

The writer gathered some quartz from the main showing which assayed nil gold. The old core was piled nearby but is presently badly jumbled. One box was found still intact which contained two split core quartz sections (each 1.2 ft long separated by about 5 feet) which were sampled by the writer. These yielded trace and nil respectively.

There are trenches along the south boundary of claim 910985 but nothing of interest was seen here except for a tiny quartz lens. The rock to the west of the trenches is slightly magnetic as is the rock on the south shore of Misfit Lake at L-8-W. Very fine pyrrhotite is present. A sample from each place yielded nil gold.

CONCLUSIONS AND RECOMMENDATIONS

There is a great deal of outcrop on the property and the outcrops are heavily covered with moss. It is not likely that prospectors in the past have examined every outcrop. From a grassroots

prospecting viewpoint, there are still opportunities for finding mineralization, especially low grade disseminated types or veins. The property is very accessible and a backhoe could be used for stripping and trenching.

The main showing itself, despite the sporadic gold assay of interest, does not appear to have any real potential for a gold deposit. At this point it is still open northeastwards. However, on the basis of known assays and geology, it is unlikely that a low grade mineralized zone could be outlined that would be of sufficient size, continuity and grade to make an ore body.

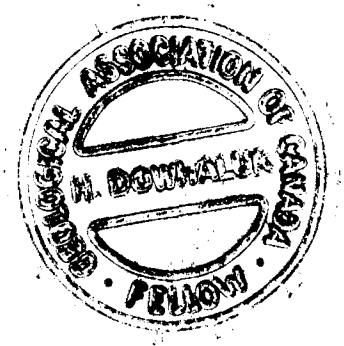
There is some potential for gold and further work such as geochemistry, stripping and trenching could be done with some hope of success; however, any such endeavour would be basically grass roots prospecting and should be evaluated against other options that might be available to the company.

Respectfully submitted

Harry Dowhaluk

Harry Dowhaluk, B.A., F.G.A.C.
Resident Geologist

Nov. 13, 1988



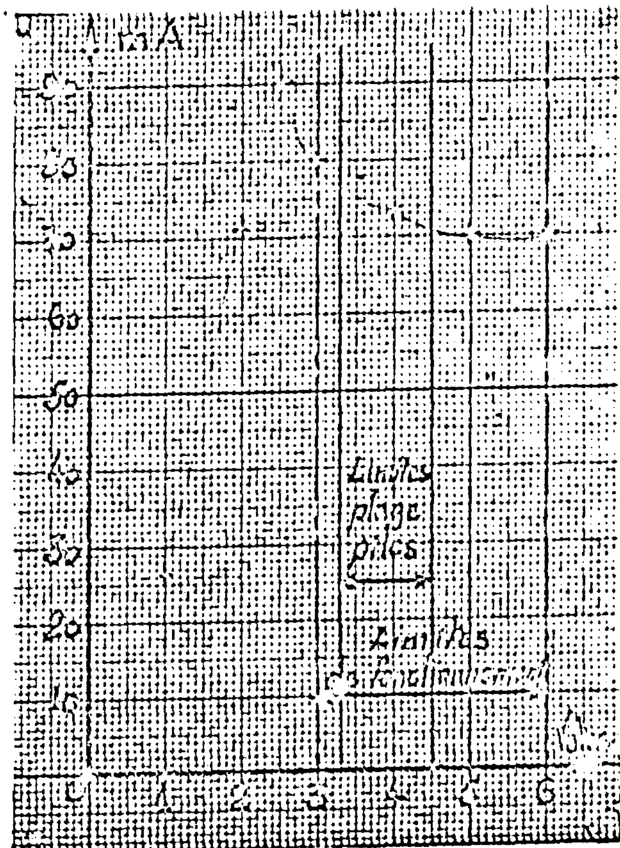
SCINTILLOMETRE Type SPP 2 NF

Fiche de controle

\- Scintillomètre SPP2. Serie 12 N° [illegible]

_A_ Controle electrique.

- Néon temoin de fonctionnement x
- Reglage plage acceptation piles 3,3v min. x
- Reglage regulation M.T. 3v min. x
  Controle consommation
  Voir courbe ci-contre →
- Reglage de sensibilité_ Precision ± 1%
  Gamme x 15000 _ 12000 c/s pour 11000 c/s
  " x 5000 _ 4000 c/s " [illegible] c/s
  " x 1500 _ 1200 c/s " 1203 c/s
  " x 500 _ 400 c/s " 399 c/s
  " x 150 _ 120 c/s " 120 c/s
- Reglage gain P.M. sur 137 Cs _ +1,2v x
- Controle prises : Casque Obs oscillo [illegible]
  Continu x
  CEA ____
- Controle Gamme 150 c/s "Lent" x



Cesium 138 c/s →

_B_ Controle nucleaire.

- Reglage du seuil d'electronique_ 50 mV
- Mesure du mouvement propre ambiant M.P. = 6 , 24 c/s
- Mesure avec Source etalon CTU [illegible] c/s.
  Comptage = 232,76 c/s — M.P. = 226,52 c/s
  Precision du reglage ____ %
- Recoupement des Gammes :
  [illegible] c/s Gamme 150 = 100 c/s Gamme 500 | 1000 c/s Gamme 1500 = [illegible] c/s Gamme 5000
  [illegible] c/s " 500 = 300 c/s " 1500 | 3330 c/s " 5000 = [illegible] c/s " 15000
  3340,0 100 c/s

_C_ Autres controles.

Couineur : Frequence 800 Seuil = 100 mV

- Etancheité : Pistolet x Boitier x Maniabilité x
- Accessoires.

Nature	Qté	Nature	Qté
Ceinturon	1	Sacoche	
Bretelle	1	Caisse	1
Casque		Piles	3
Source	1	Notice	1

Materiel verifié par le CEA

SRAT	41 rue Emeriau PARIS XV_ Vau.79 33	CTU_le [illegible]

designed for λ radiation detection

Ontario

Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

File _____

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, radiometric

Township or Area Kabik Lake & Pickerel Twsp

Claim Holder(s) Concentrated Rare Earth Minerals Ltd

Survey Company Harry Dowhaluk

Author of Report Harry Dowhaluk

Address of Author Box 118, Tamworth, Ont. K0K3G0

Covering Dates of Survey Sept. 6 - November 13, 1988 (linecutting to office)

Total Miles of Line Cut 7.3 mi.

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	
-Magnetometer	
-Radiometric	20
-Other	
Geological	20
Geochemical	

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

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

DATE: Nov. 13/88 SIGNATURE: Harry Dowhaluk
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
PA	910985
Pa	910986
PA	912891
PA	912892
PA	912893
PA	912894
PA	912895
PA	912896
PA	912897

If space insufficient, attach list

TOTAL CLAIMS 9

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 370 Number of Readings 370

Station interval 100 ft. Line spacing 400 ft

Profile scale

Contour interval

MAGNETIC

Instrument

Accuracy – Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

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

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 SRAT SPP-2-NF

Values measured Alpha, beta, gamma rays (total count) in counts per second

Energy windows (levels) 150, 500, 1500, 5000, 15,000 c/s

Height of instrument Ground level Background Count 31 c/s

Size of detector _____

Overburden to 30 ft

(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 _____

Ontario

900

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

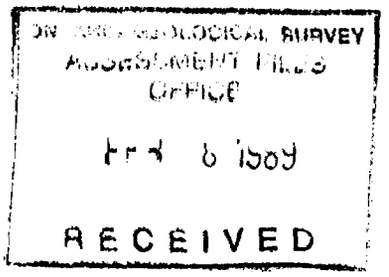
Mining Lands Section
3rd floor, 880 Bay Street
Toronto, Ontario
M5S 1Z8

Telephone: (416) 965-4888

January 12, 1989

Your file: W8803-279
Our file: 2.11852

Mining Recorder
Ministry of Northern Development and Mines
Court House
P.O. Box 3000
Sioux Lookout, Ontario
P0V 2T0



Dear Madam:

Re: Notice of Intent dated December 28, 1988
Geophysical (Radiometric) and Geological Survey submitted on
Mining Claims PA 910985 et al in Kabik Lake and Pickerel Township

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

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

Yours sincerely,

W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

RM:pl
Enclosure

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

Resident Geologist
Sioux Lookout, Ontario

Concentrated Rare Earth Minerals Ltd.
Suite 404
20 Eglinton Ave. W.
Box 2038
Toronto, Ontario
M4R 1K8

Mr. Harry Dowhaluk
Box 118
Tamworth, Ontario
K0K 3G0

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File: 2.11852

Date: December 28, 1988

Mining Recorder's Report of Work No.: W8803-279

Recorded Holder: Concentrated Rare Earth Minerals Ltd.

Township or Area: Kabik Lake and Pickerel Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	PA 910985-986 912391 to 397 inclusive
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric 16.75 days	
Induced polarization _____ days	
Other _____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological 16.75 days	
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☐ Ground ☐	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

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

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; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Ministry of Northern Development and Mines

Ontario

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

W8803·279

Mining Act

MINING LANDS 2.11852

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.

Type of Survey(s)	Township or Area
GEOLOGICAL, RADIOMETRIC	Kabik Lake & Pickerel Twp

Claim Holder(s)	Prospector's Licence No.
Concentrated Rare Earth Minerals Ltd.	T-4923

Address: #404 - 20 Eglington Ave.W., Box 2038, Toronto, Ont., M4R 1K8

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
H. Dowhaluk, Geologist	6 9 88 (Day Mo. Yr.) 13 11 88 (Day Mo. Yr.)	7.3 mi.

Name and Address of Author (of Geo-Technical report): Harry Dowhaluk, Box 118, Tamworth, Ont, K0K 3G0

Credits Requested per Each Claim in Columns at right

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

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

RECEIVED
DEC 19 1988
MINING LANDS SECTION

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
PA	910985	
	910986	
	912391	
	912392	
	912393	
	912394	
	912395	
	912396	
	912397	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

RECEIVED DEC 6 1988 MINING LANDS SECTION PORCUPINE MINING DIVISION

Total number of mining claims covered by this report of work: 9

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.

For Office Use Only		
Total Days Cr. Recorded: 360	Date Recorded: DECEMBER 6/88	Mining Recorder: ACTING
	Date Approved as Recorded	Branch Director

Date: Nov.13,1988

Recorded Holder or Agent (Signature): Harry Dowhaluk

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: Harry Dowhaluk, Box 118, Tamworth, Ont., K0K 3G0

Date Certified: Nov.13, 1988

Certified by (Signature): Harry Dowhaluk

Ministry of Northern Development and Mines

Ontario

Geophysical-Geological-Geochemical Technical Data Statement

File _____

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, radiometric

Township or Area Kabik Lake & Pickerel Twsp

Claim Holder(s) Concentrated Rare Earth Minerals Ltd

Survey Company Harry Dowhaluk

Author of Report Harry Dowhaluk

Address of Author Box 118, Tamworth, Ont., K0K3G0

Covering Dates of Survey Sept. 6 - November 13, 1988
(linecutting to office)

Total Miles of Line Cut 7.3 mi.

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	
--Magnetometer	
--Radiometric	20
--Other	
Geological	20
Geochemical	

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

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

DATE: Nov.13, 1988 SIGNATURE: Harry Dowhaluk
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
PA	910985
PA	910986
PA	912391
PA	912392
PA	912393
PA	912394
PA	912395
PA	912396
PA	912397

TOTAL CLAIMS 9

If space insufficient, attach list

DEC 1988
PATRICIA MINING DIVISION

OFFICE USE ONLY

837 (85/12)

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 370 Number of Readings 370

Station interval 100 ft. Line spacing 400 ft

Profile scale

Contour interval

MAGNETIC

Instrument

Accuracy – Scale constant

Diurnal correction method

Base Station check-in interval (hours)

Base Station location and value

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

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 SRAT SPP-2-NF

Values measured Alpha, beta, gamma rays (total count) in counts per second

Energy windows (levels) 150, 500, 1500, 5000, 15,000

Height of instrument Ground level Background Count 31 c/s

Size of detector _____

Overburden to 30 ft.

(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 _____

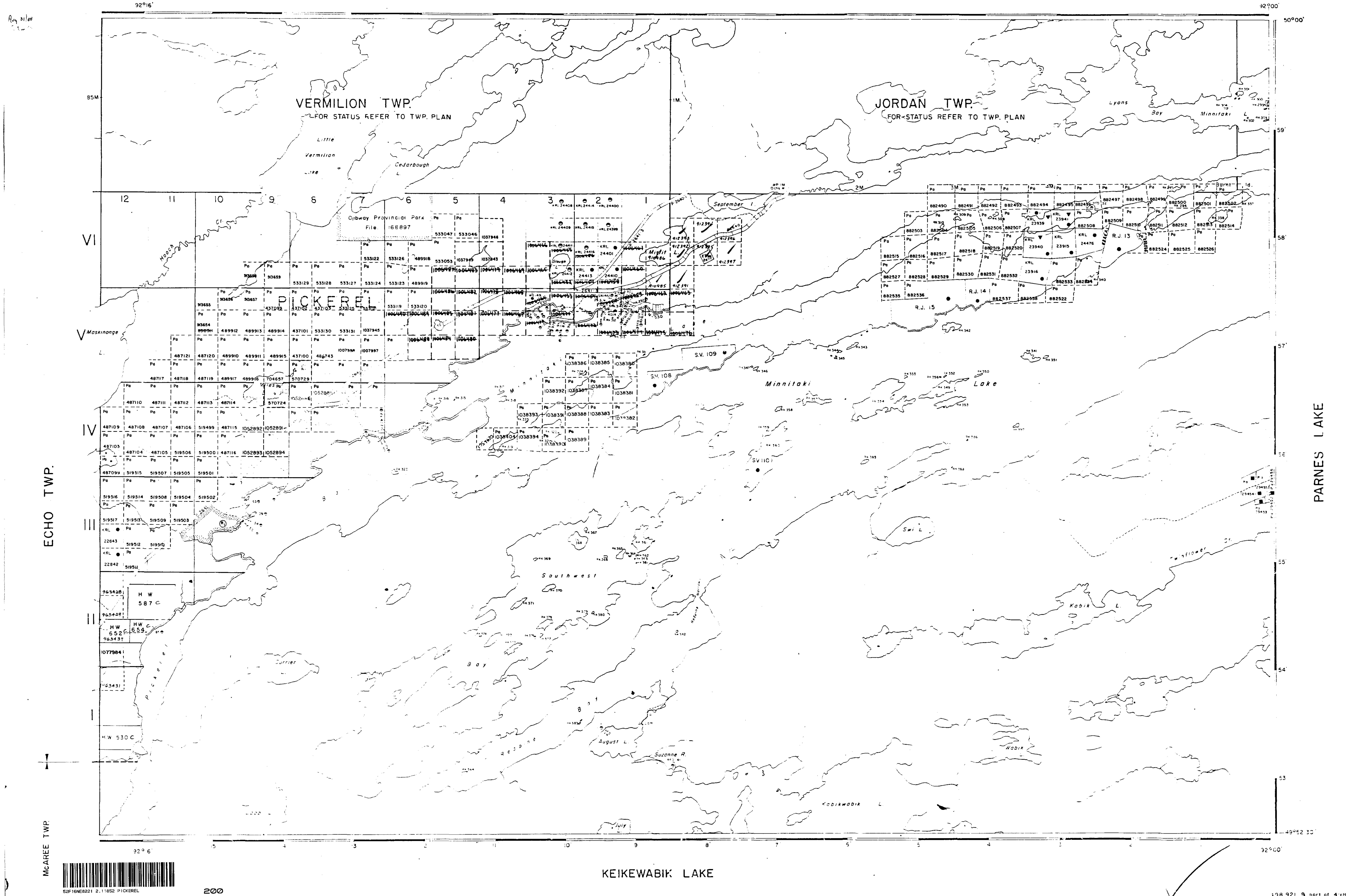
Analytical Method _____

Reagents Used _____

General _____

FILE NUMBER: 2.11852

NTS	TOWNSHIP/AREA (S)	NUMBER OF POLYGONS
52F	KABIK LAKE	1



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 OR 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.

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+S. – MINING AND SURFACE RIGHTS

Description			Disposition	File
® W 37/72		18 APR.1972	S.R.O.	163474
R2 W-59/86		26 MAY 1986 / 23 May 1986	M+S	

Dec. 16, 1986
Jan 23/87
MAY 6/87
S.R.O. WITHDRAWN ON ALL ISLANDS IN MINNITAKI LAKE.
AUG 21/87
87/12/17
88-10-18

RECEIVED
OCT 26 1988
PATRICIA MINING DIVISION

SCALE: 1 INCH = 40 CHAINS

AREA KABIK LAKE AND PICKEREL TWP.

M.N.R. ADMINISTRATIVE DISTRICT
SIOUX LOOKOUT

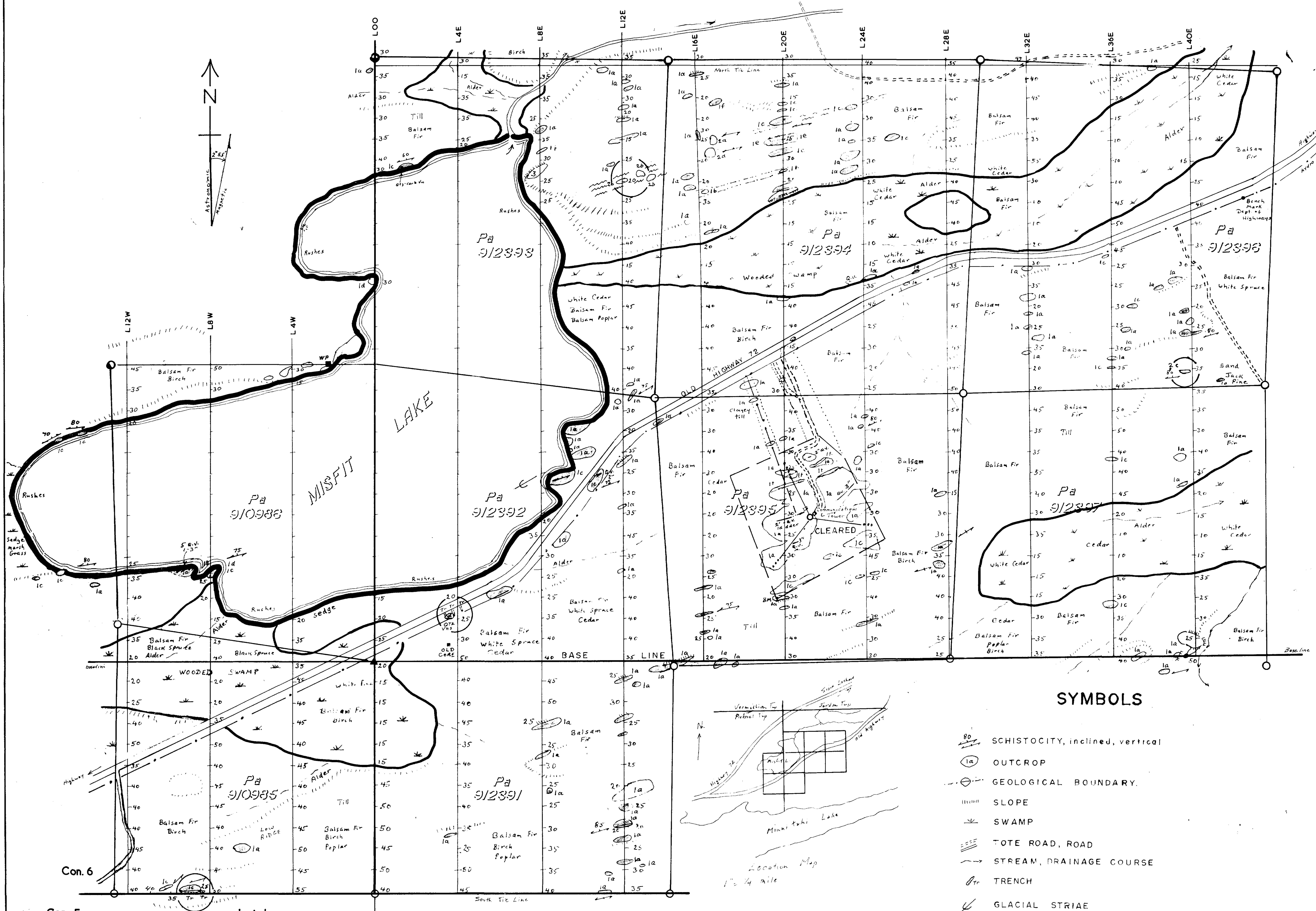
MINING DIVISION
PATRICIA

LAND TITLES / REGISTRY DIVISION
KENORA (PATRICIA PORTION)

Ontario Ministry of Natural Resources — Land Management Branch

Date: FEBRUARY, 1984. Number: G-2075

52F16NE8221 2.11052 PICKEREL 200



SYMBOLS

- SCHISTOCITY, inclined, vertical
- OUTCROP
- GEOLOGICAL BOUNDARY
- SLOPE
- SWAMP
- TOTE ROAD, ROAD
- STREAM, DRAINAGE COURSE
- TRENCH
- GLACIAL STRIAE

Instrument

SRAT SCINTILLOMETER SP-2-NF

30 / 35 / 45 Readings in counts per second c/s

LEGEND

CENOZOIC

- RECENT: Swamp deposits, soil
- PLEISTOCENE: Gravel, sand, clay

PRECAMBRIAN

- 3 Pyroxenite
- 2c Sericite-carbonate schist, phyllite
- 2b Chlorite-carbonate schist
- 2a Mudstone, argillite
- 1f Tuff
- 1e Fragmental lava
- 1d Pillow lava
- 1c Greenstone schist, schistose andesite
- 1b Andesite porphyry
- 1a Massive andesite

0 200 400 600 800 Feet

SCINTILLOMETER SURVEY, GEOLOGY	
CONCENTRATED RARE EARTH MINERALS LTD	
MISFIT LAKE PROPERTY	
KABIK LAKE AREA & PICKEREL TWSP	
DISTRICT OF KENORA, ONTARIO	
SCALE: 1 IN = 200 FT.	DATE: NOVEMBER, 1988
GEOLOGIST: H. Dowhaluk	MAP NO.

2.11_2

Nov. 13, 1988

52F16NE0221 2.11552 PICKEREL

210