



52M01SE0158 2.12110 BALL TWP

010

GEOLOGICAL REPORT

MINING LANDS SECTION

Location: The three mining claims KRL 870130, KRL 870131, and KRL 870132 are located in Ball Twp. 20 miles west of the town of Red Lake, Ont. The property is accessible only by water or by air. The predominant foliage on the property is spruce which covers over 90% of the land with the remainder being poplar which is sparsely distributed throughout and birch which grows mainly alongside the shoreline. The nature of the overburden is mostly clay and clay loam.

General Geology: The two predominant rock types are felsic metavolcanics (in places porphyritic) and chemical meta-sediments (chert-marble). There are intrusions of ultramafics (gabbro and diorite) along with narrow beds of mafics (andesite), and chert (chert-sulphide).

Most of the area has undergone varying degrees of alteration and metamorphism making identification of some rockformations difficult. In many places veinlets of carbonate and quartz-carbonate splay out at many intersecting and cross-cutting angles, leading to the assertation that the formations striking in an east-west direction had undergone a compression force from the batholith to the south of the property (2200 ft.) These fractures are common to all rock types, though not necessarily associated with hydrothermal inclusions. ?

Structural Geology: The general foliation of the rocks is west. There has been no faulting observed but the rocks do exhibit fracturing, possibly due to pressure exerted upon them from a batholith intrusion to the immediate south.

Exploration

Historical: This section of Ball Twp. has been explored several times in the past since the days of the Red Lake gold rush. The ground had been stripped, trenched and drilled without success. The best reported find was 2½ oz. per ton of Au in a select sample but the property was dropped. The most recent exploration had been conducted by Dome Exploration to test an E.M. anomaly which they attributed to a pyrite/graphite bedding.

Recent: recent exploration has only found trace amounts of gold which is the target mineral. The most promising rock type is mineralized chert bedding within the felsic (rhyolite-dacite) accompanied by fucsite alteration and quartz / quartz-carbonate veining. The mineralization follows the chert and sparsely with the quartz / quartz-carbonate veinlets. The mineralization is finely disseminated with only random larger crystals thus far observed.

The chert-marble unit is profusely crosscut with quartz veinlets but all observed have been barren of any mineralization, although at sporadic localities pyrite mineralization has been found in the dolomite. These findings though are strictly localized with no continuity or veining of any kind.

Conclusion: The mineralized sections of chert need further exposure and investigation, and also, because of the strikes of other finds (i.e.- the west Red Lake and Bridget Lake gold strikes), which occur east and west of my property, respectively, where the zones of gold placement strike roughly North-South, as well as the Galena Is. strike which is similar and is south of my ground opens another option for further exploration.

Property Holder: Antony James Maciejewski

Author of report: Antony James Maciejewski

Date of survey: 8/10/88 - 6/11/88.

Dated: Jan. 12, 1989.

Signed: _____

A. J. Maciejewski



52M01SE0158 2.12110 BALL TWP

900

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

Telephone: (416) 965-4888

June 21, 1989

Your file: W8902-132
Our file: 2.12110

Mining Recorder
Ministry of Northern Development and Mines
P.O. Box 324
Red Lake, Ontario
POV 2M0

Dear Sir:

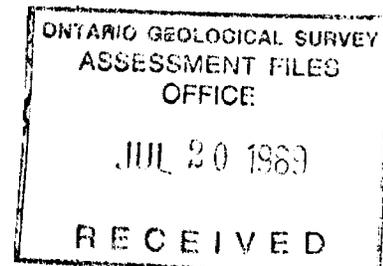
Re: Notice of Intent dated May 18, 1989 for Geological Survey submitted
on Mining Claims KRL 870130 to 132 inclusive in Ball Township.

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:eb
Enclosure

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

Resident Geologist
Red Lake, Ontario

Antony James Maciejewski
P.O. Box 707
Red Lake, Ontario
POV 2M0



Recorded Holder JAMES MACIEJEWSKI
Township or Area BALL TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological <u>25</u> days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" 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.	<p style="text-align: center;">KRL 870130 to 132 incl.</p>

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

--

No credits have been allowed for the following mining claims

<input type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> 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; Geological - 40; Geochemical - 40; Section 77(19) - 60.



DOCUMENT No.
WCS-231
Mining Act

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

MLANDS

Geological 2.12110 Township or Area BALL G274

Holder(s) ANTONY JAMES MACIEJEWSKI Prospector's Licence No. P-11408

Address P.O. BOX 707 RED LAKE, ONT. POV 2M0

Survey Company DATE AS SURVEY - ANTONY J. MACIEJEWSKI 29/10/88 6/11/88 Total Miles of Line Cut 1.5

Name and Address of Author (of Geo-Technical report) ANTONY J. MACIEJEWSKI P.O. BOX 707, RED LAKE, ONT. POV 2M0

Credits Requested per Each Claim in Columns at right

Special Provisions For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	40
	Geochemical	
Man Days Complete reverse side and enter total(s) here RECEIVED DEC 8 1988 MINING LANDS SECTION	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
RRL	870130	40			
	870131	40			
	870132	40			

RECEIVED
 NOV 29 1988
 RED LAKE
 MINING DIV.

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.

Total number of mining claims covered by this report of work. **3**

Date: 11/25/88
Recorded Holder or Agent (Signature): A.J. Maciejewski

For Office Use Only

Total Days Cr. Recorded: 120
Date Recorded: Nov 29/88
Date Approved as Recorded: []
Mining Recorder: [Signature]
Branch Director: [Signature]

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: ANTONY JAMES MACIEJEWSKI P.O. BOX 707 RED LAKE, ONT. POV 2M0

Date Certified: []
Certified by (Signature): [Signature]

212110
KRL

April 24, 1989.

c/o Robert Musgrove

W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division
Ministry of Northern Development and Mines
3rd Floor, 880 Bay St.
Toronto, Ont.
M5S 1A8

Dear Sir:

In response to your letter dated March 3rd, 1989, here is the documentation that you requested in order to demonstrate professional competence equivalent to the requirements necessary for writing a geological survey.

Schooling: Grade 12 - Arts & Science
Grade 13 - Arts & Science (5 credits)
Red Lake District High School - 1976

10 wk course in prospecting and general geology
* no written recognition or grading of course
performed - course conducted by B.L. Atkinson
at time Resource Geologist at Red Lake Geologists'
Office - 1986

Employment: Dickenson Mines Ltd. - 1974-5
Balmertown, Ont.

Solution Helper - mill

Campbell Red Lake Mines Ltd. - 1977-81
Balmertown, Ont.

Drillers Helper - Underground
Loader Operator

Hermco - 1981
Cochmour, Ont.

Diamond Driller Helper - Underground

Goldfields Mineral Exploration - 1984
Toronto, Ont.

Geologist's Assistant - Birch Lake
contact - Pat Pope
- whereabouts unknown to me

The work that these past references reflect gave a clear and concise insight into mining and discovery/exploration operations, providing an education in geology, geological structures, and the mechanics necessary for their research and evaluation. It was during this time that my interest and curiosity in geology was guided by geologists that I met in each of the respective fields.

It was also during this time up to the present that I have been studying geology on my own with direction given by enquiries to those more learned than I.

I have also the fortune of living in one of the most successful gold mining camps in Canada with all its accumulated knowledge at my disposal and the properties from which this information had been assimilated at my doorstep. Therefore, my education in geo-technology was in most part the direct application of records to the actual ground upon which the surveys had been performed.

Also, over the past years I have accumulated a respectable library of geological information and have studied them thoroughly.

I.E.- Genesis of Archean, Volcanic Hosted Gold Deposits
OGS misc. paper 97

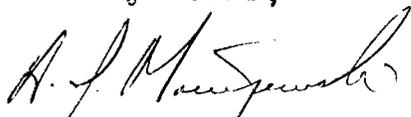
- Gold Deposits of Ontario
reprint - Mineral Res. Circular 13
- Prospecting in Canada
4th Edition - A.N. Lang
- Vulcanology and Mineral Deposits
OGS Misc. paper 129
- Geology of Gold in Ontario
OGS Misc. paper 110
- Rocks and Minerals of Ontario
Geological Circular 13 - D.F. Hewitt
- Mineral Exploration Topics
misc. paper 55
- Field Guide for Mineral Identification

These publications are also supplemented by OGS surveys (literature and maps) on the majority of the townships and areas in both Red Lake and Birch-Uchi-Confederation Lake districts. Perhaps the two most important of these is the 49th Annual Report on the Geology and Mineral Deposits of the Red Lake Area by H.C. Horwood, circa 1940, and the Report of the Bureau of Mines 1912, on the District of Patricia.

And as I have stated before, the records of mineral exploration kept at the Red Lake Geologists' Office have been and still are being utilized because of their wealth of information.

Enclosed with this letter is a photo-copy of your letter and two personal references from two geologists that I have been and still am in contact with. The copies of my work reports and maps you already have. I hope that the material submitted will meet to your satisfaction, and I will respectfully await your decision.

Sincerely Yours,



Mr. A. J. Maciejewski

ref. # 2.12110

P.O. Box 707
Red Lake, Ont.
POV 2M0

1-807-727-2514

John H. Kita
P.O.Box 509
Red Lake, Ont.
POV 2M0

April 3 1989

To Whom It May Concern;

My Name is John Kita. I graduated in 1978 from the University of Toronto, Geological Engineering, Mineral Exploration Option. Since graduation I have been employed within the mineral industry as a geophysicist, geologist, mine geologist and project manager. I am a member of the Prof. Engineers of Ontario, C.I.M.M., Prospectors and Developers Association and the American Institute of Mining Engineers.

I have known Antony Macejewski for the past two years. In our discussions of the geology within the Red Lake Area he has shown himself to be very familiar with the geology and the structural significance for mineral deposits. In my opinion he is a competent field geologist/pro prospector. He has an adequate level of performance to identify the common minerals and rock types.

Tours Truly

A handwritten signature in black ink, appearing to read "John H. Kita". The signature is written in a cursive style with a long, sweeping underline that extends to the left and then curves back under the name.

190 Seventh Ave.
Timmins, Ontario
P4N 5P2

April 9, 1989

To whom it may concern:

I have known Mr. Maciejewski since 1985 and have worked with him on several occasions. He has a very good grasp of geology and geologic principles on a local and regional scale. It has been my experience that Mr. Maciejewski spends the quality time required to become familiar with a property, both in the field and at the assessment office. Any shortcomings in his specific geologic knowledge are overcome by his ability to formulate good clear geologic questions and his willingness to get an answer through close and regular contact with local industry and government geologists. Mr. Maciejewski spends a great deal of time on his own properties and within the local mineral exploration industry.

In light of the above I would say Mr. Maciejewski's conduct within the Red Lake mining community is very commendable. He is familiar with many aspects of mineral exploration and is capable of carrying out geological, geochemical and geophysical surveys. With respect to geology specifically Mr. Maciejewski would be quite proficient in performing detailed mapping within the scope of his geological knowledge (which I would consider to be completely suitable for property investigation).

I have been active in the mineral industry since 1980. I am a graduate in geology from Sir Sandford Fleming College and Brock University.

Yours truly



Steven N. Rusk B.Sc.



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Mini Memo

To / à

Geol

KRL

870130

-1/2

870131

-1/2

870132

-3/4

$$(3 \times 40) \div (3 + 1.75) = 25.26$$

From / de

RECEIVED

JAN 27 1989

MINING LANDS SECTION

Mining Lands Section

880 Bay St.

3rd Floor

Toronto Ont.

M5S 1Z8

Dear Sir:

On my geological report issued to you for assessment credits I failed to include my qualifications.

The report is on three mining claims: Re: KRL 870130, KRL 870131, KRL 870132 in the township of Ball in the Red Lake Division, located approx. 20 miles west of the town of Red Lake.

My qualifications are as follows:

- 4 yrs. underground dev. work at Campbell Red Lake Mines
- 1 yr. underground diamond drilling for Hermo D.A. at Dickenson Mines
- 10 wk training course (basic) in geology (Brian Atkinson - at that time Resource Geologist ~~at~~ in Red Lake was instructor)
- 5 yrs fieldwork in mineral exploration

Sincerely Yours,

A. J. Maciejewski

A. J. Maciejewski

P.O. Box 707

Red Lake, Ont.

POV 2MO

(Ph-1-807-727-2514)



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

Township or Area BALL TWP.

Claim Holder(s) ANTONY J. MACIEJEWSKI

Survey Company ANTONY J. MACIEJEWSKI

Author of Report ANTONY JAMES MACIEJEWSKI

Address of Author P.O. BOX 707 RED LAKE, ONT. P0V 2M0

Covering Dates of Survey 8/10/88 - 6/11/88 (linecutting to office)

Total Miles of Line Cut 1.5 mi.

MINING CLAIMS TRAVERSED
List numerically

KRL 870130
(prefix) (number)
KRL 870131
KRL 870132

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS per claim

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

ENTER 20 days for each additional survey using same grid.

- Geophysical
-Electromagnetic
-Magnetometer
-Radiometric
-Other
Geological 40
Geochemical

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

Magnetometer Electromagnetic Radiometric (enter days per claim)

DATE: Jan. 12/89 SIGNATURE: A. J. Maciejewski Author of Report or Agent

Res. Geol. Qualifications

Previous Surveys

Table with 4 columns: File No., Type, Date, Claim Holder

TOTAL CLAIMS

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

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 _____

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 _____

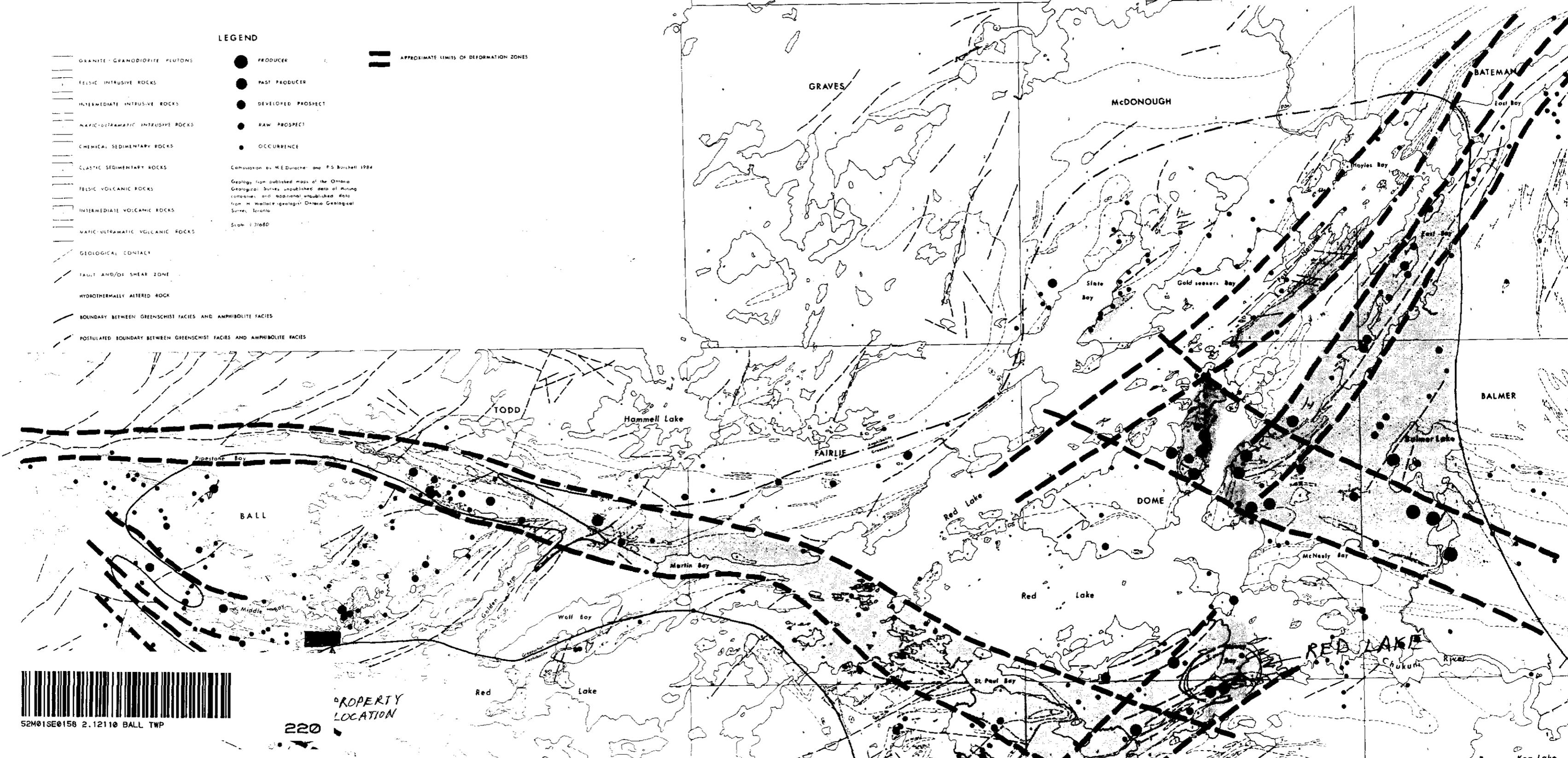
LEGEND

- GRANITE - GRANODIORITE PLUTONS
- FELSIC INTRUSIVE ROCKS
- INTERMEDIATE INTRUSIVE ROCKS
- MAFIC-ULTRAMAFIC INTRUSIVE ROCKS
- CHEMICAL SEDIMENTARY ROCKS
- CLASTIC SEDIMENTARY ROCKS
- FELSIC VOLCANIC ROCKS
- INTERMEDIATE VOLCANIC ROCKS
- MAFIC-ULTRAMAFIC VOLCANIC ROCKS
- GEOLOGICAL CONTACT
- - - FAULT AND/OR SHEAR ZONE
- HYDROTHERMALLY ALTERED ROCK
- - - BOUNDARY BETWEEN GREENSCHIST FACIES AND AMPHIBOLITE FACIES
- - - POSTULATED BOUNDARY BETWEEN GREENSCHIST FACIES AND AMPHIBOLITE FACIES

- PRODUCER
- PAST PRODUCER
- DEVELOPED PROSPECT
- RAW PROSPECT
- OCCURRENCE

== APPROXIMATE LIMITS OF DEFORMATION ZONES

Compilation by M.E. Duracher and P.S. Borchert 1984
 Geology from published maps of the Ontario Geological Survey, unpublished data of mining companies, and additional unpublished data from H. Wallace (geologist Ontario Geological Survey, Toronto)
 Scale: 1:37080

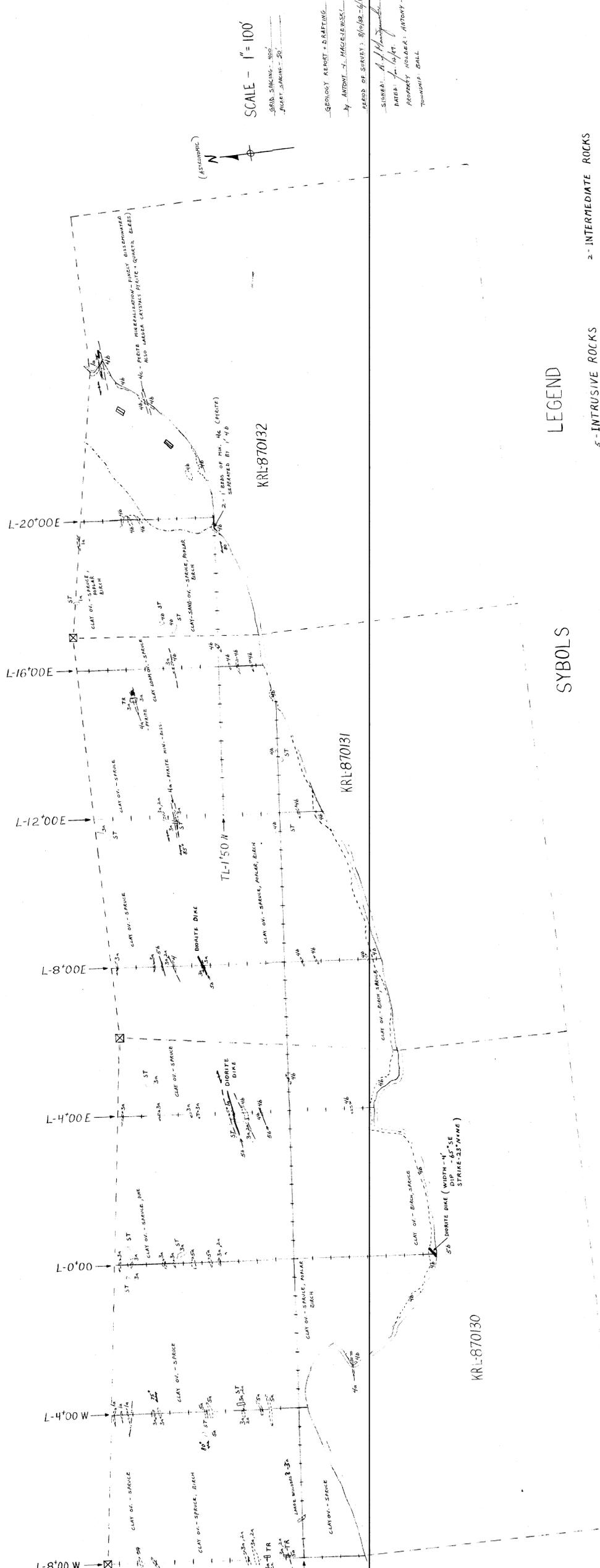


52M01SE0158 2.12110 BALL TWP

220

PROPERTY LOCATION

Keg Lake



SCALE - 1" = 100'

SRIN. SIKING - 100'
 MEET. SPINE - 20'

GEOLOGY REPORT - DRAFTING
 BY ANTONI J. MACIEJEWSKI
 PERIOD OF SURVEY: 8/10/88 - 6/1/88

SIGNER: *A. J. Maciejewski*
 DATE: 7/10/88
 PROPERTY HOLDER: ANTONY J. MACIEJEWSKI
 TOWNSHIP: 24N
 RANGE: 10E

SYMBOLS

- DIKE (TYPE DESCRIBED)
- BOUNDARY OF OUTCROP
- ▲ STAKE + DIP
- - - GEOLOGICAL BOUNDARY (OBSERVED)
- - - GEOLOGICAL BOUNDARY (ASSUMED)
- ▨ SHEAR ZONE
- ▧ TRENCH (TR. ARE.)
- ▩ CULTURED BOUNDARY (BOW MARROWS CAMP)
- CABIN
- ▨ STIPPLING (ST-ABBR.)

LEGEND

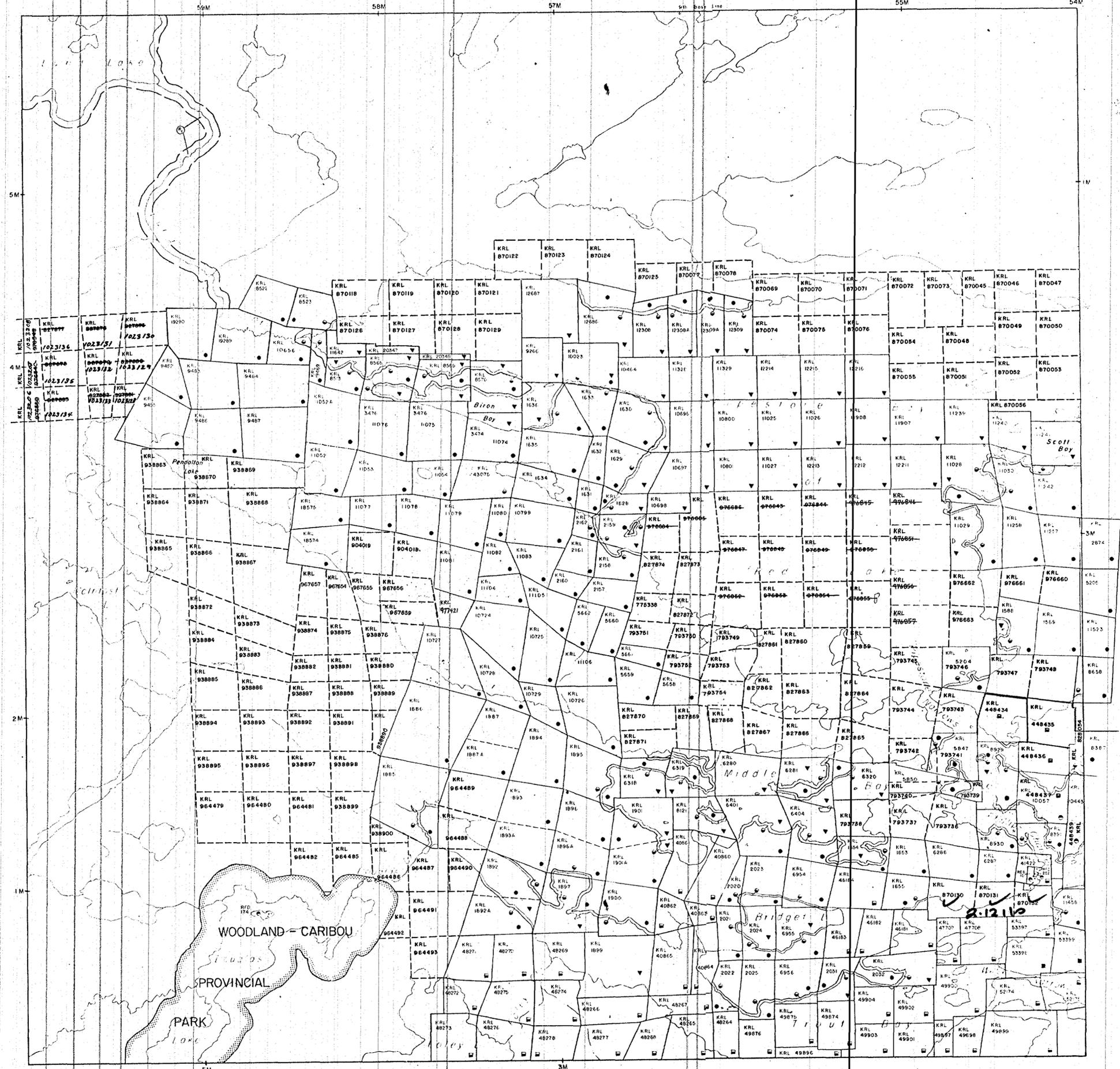
- 5 - INTERMEDIATE ROCKS
 - 5a - ULTRA-MAFIC
 - 5b - INTERMEDIATE TO MAFIC
 - 5c - FELSIC
- 4 - SEDIMENTARY ROCKS
 - 4a - CHERT - MARBLE
 - 4b - GYPSUM
 - 4c - ARGILLITE
- 3 - FELSIC ROCKS
 - 3a - RHYOLITES - DACITE
- 2 - INTERMEDIATE ROCKS
 - 2a - DACITE - ANDESITE
- 1 - MAFIC ROCKS
 - 1a - ANDESITE



AREAS WITHDRAWN FROM DISPOSITION

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

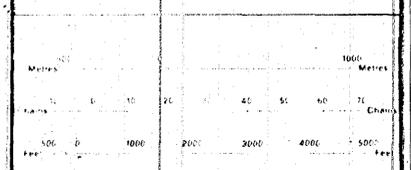
Description	Order No.	Date	Disposition	File
PROPOSED PARK RES.		7/7/02	M.B.S.	171523



DISPOSITION OF CROWN LANDS	SYMBOL
TYPE OF DOCUMENT	
MINING RIGHTS ONLY	○
SURFACE RIGHTS ONLY	●
MIXED RIGHTS	◐
LAND SURFACE & MINING RIGHTS	◑
SURFACE RIGHTS ONLY	◒
MINING RIGHTS ONLY	◓
TYPE OF OCCUPATION	
FOREIGN OCCUPANCY	○
RESERVATION	○
RAILROAD	○
SAND & GRAVEL	○

DISPOSITION OF CROWN LANDS

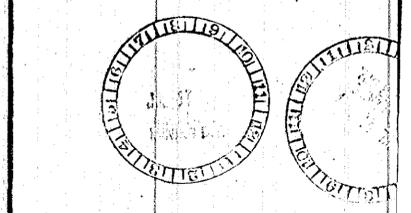
NOTE: MAPS OF CROWN LANDS ARE AVAILABLE FROM THE MINISTRY OF NORTHERN DEVELOPMENT AND MINES, 1000 BAY ST., TORONTO, ONT. M5G 1S2.



SCALE 1:20 000

TODD TOWNSHIP

RED LAKE MINING DIVISION
AUG 3 - 1988
RED LAKE, ONTARIO

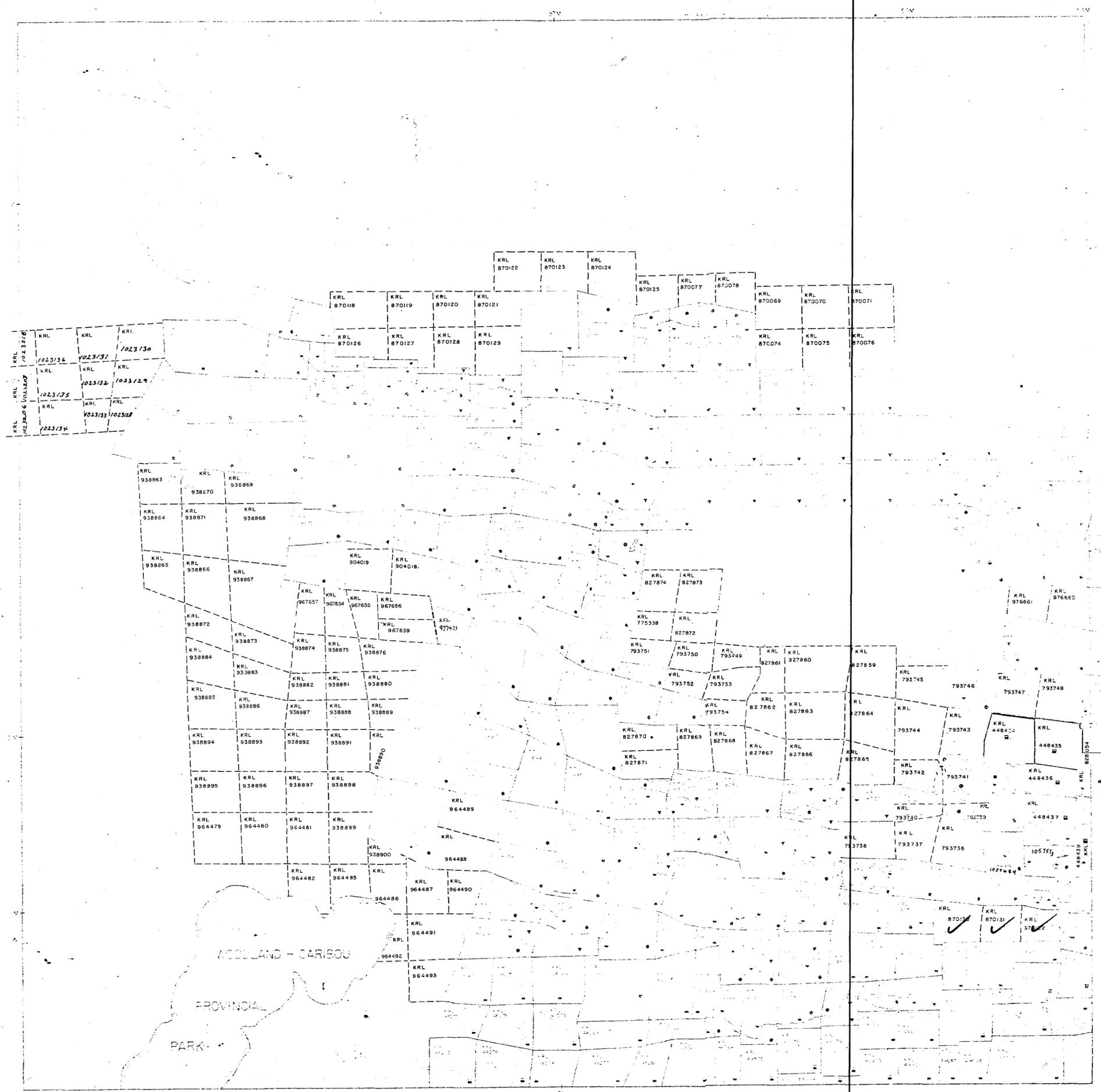


TOWNSHIP
BALL
MNR ADMINISTRATIVE DISTRICT
RED LAKE
MINING DIVISION
RED LAKE
LAND TITLES / REGISTRY DIVISION
KENORA (Patricia Portion)

Ministry of Natural Resources Ontario
Ministry of Northern Development and Mines



DISPOSITION OF CROWN LANDS



TODD TOWNSHIP

RED LAKE MINING DIVISION
 JUN 30 1989
 RED LAKE, ONTARIO



TOWNSHIP
BALL
 MAP DIVISION
 RED LAKE
 MINING DIVISION
 RED LAKE
 LAND TITLES REGISTRY DIVISION
 KENORA (Patricia Portion)

Ministry of Natural Resources Ontario
 Ministry of Northern Development and Mines

SEPTEMBER 1988
 6-3740

