

2.24019

# Report of Work

(2001 Ground Mag Survey)

For

## First Point Minerals

(Vancouver, BC)

On

## Mann Project

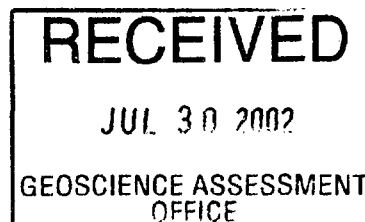
Mann & Duff Townships  
Porcupine Mining Division, Northeast Ontario

42A15NM2006 2.24019 MANN



010

R. J. Daigle  
Geoserve Canada Inc.



May 2, 2002

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### **One 1: 5000 Plan Map Posting & Contouring Values**



Property Location

FIGURE 1

## **2.0 Summary**

In **September 2001**, First Point Minerals of Vancouver commissioned Richard Daigle of Timmins Ontario to do a total field magnetic survey on their Mann Project. The Mann Project includes 38 claims (299units) spread across Mann, Duff, Hanna, and Reaume Townships, Porcupine Mining Division, District of Cochrane, northeastern Ontario. The claims are 17km west along the Tunis Power Station Road off of HWY 11, 22km south of Cochrane, ON. The Frederick House River bisects the property in Mann Township.

The ongoing exploration initially started in 1995 by R. S. Middleton who optioned some of the claims to Noranda Exploration. Since 1995 limited prospecting and ground geophysics covered parts of the Mann Project. The past surveys include HLEM and Magnetics on two claims and a wide spaced Induced Polarization Survey on several other claims. Earlier work on and near the property (post 1995) can be referenced in the Timmins Resident Geologist Office. The work conducted to date sine 1995 is focused on VMS deposits and/ or PGE potential. Since the 1995 ground geophysical surveys none of the delineated IP targets have been tested.

The property covers approximately 12km of the west limit, of the Mann Intrusive Complex (42km wide intrusive body, Ayers, 1999). It lies within the Abitibi Greenstone Belt, 28km northeast of the world class Kidd Creek massive sulfide mine. The objective of the ground geophysics is to delineate Komatiitic-flows that may have increased olivine fractionation and accumulations with decreased S-saturartion. These type target areas are favored for PGE. The defined targets may also host good Ni occurrences within the ultramafic complex that is covered by parts of the survey being reported-on.

Both 2000 and 2001 IP surveys encouraged additional work, and Drill testing of some IP targets (Report of IP Survey, R. Daigle, 2001). Since then, First Point Minerals carried-out a mapping program on parts of the claims in the Fall of 2001.

The 2001 ground mag survey forms the main basis of this report. A 1:5000 plan map included here-in represent s the results of the 2001 survey. The Total Field results are posted with contoured values. The survey is smooted with a past base-station location used for the Len Hill Property. With the permission of Tres-Or Resources who did a mag survey on Len Hill's property the author presents a final map compiling results of both ground surveys. The survey delineates the intrusive complex well, showing the complex folding back onto itself southerly.

### 3.0 Geology

The property is geologically situated in the Abitibi Greenstone Belt, 28km northeast of the Kidd Creek base metal mine. The Kidd Creek Mine is a world class VMS deposit. The claims cover near 12km of the Mann Intrusive Complex, within the Stoughton-Roquemaure assemblage comprised of mafic, ultramafic intrusives, and extrusive igneous rocks. The Mann complex is among the largest stratiform intrusive bodies in the region with a strike of 42km. A clinopyroxenite unit within the Mann complex contains anomalous PGM values (Good & Crocket, 1999).

The property is near 97% overburden cover. Therefore compilation of diamond drill holes, geophysical and geological surveys form the mapped property geology. Geology is chiefly related to map 3379 by the OGS (Ontario Geological Survey) geological compilation by J.A. Ayers, and N.F. Trowell, 1998. Diamond drill logs by Falconbridge are by far the most complete for the area. Whole rock enrichment in Si and Ca (in exchange for Mg, Na, and K depletion) are favored within the hydrothermal systems for VMS (F. Santaguida, Falconbridge Ltd, 2001). All gathered information shows that the Mann Complex dips northerly. The property is interpreted to be folded back onto itself near the Frederick House River. It is geophysically inferred that volcanics superpose the area between the fold.

The 2001 work by First Point Minerals is focused on evaluating the Mann Intrusive Complex for PGM. After evaluating the IP sections on both L.Hill Property and First Point claims one observes that the broad bisecting resistivity high unit (trending near 115°E) infers that the ultramafic complex appears to be oxidized towards the tops (Higher IP effects at the outer limits mapping magnetite rich rocks). The metallic enrichment towards magnetite to the south may infer that this part of the unit is closer to being peridotites. The remaining underlay is postulated to be dominantly closer to an underlay of dunite. Between the postulated units may lie a reef that would be of interest towards PGM enrichment due to a possible threshold of sulfide saturation enrichment (Ore Deposit Workshop, U of T, A.J. Naldrett, 1977).

*The abundance of chalcophile element data, including PGF (Pt,Pd,Ir), Ni, Cu, and Co are controlled by olivine fractionation and accumulation. The magmas are said to be undersaturated in sulfide. R.A. Sproule, M. Houle, C.M. Leshner, P.C. Thurston (Laurentian University), and J.A. Ayer Ontario Geological Survey (OGS).*

## **4.0 Survey**

### **Procedure**

The Total Field Magnetic Survey was read by Richard Daigle and Denis Caron of Timmins, ON from September 29 to October 3, 2002. GSM-19 Overhauser Magnetometers (TerraPlus) were used for the survey. All lines were read at a 25m interval. The diurnal drift was monitored at the start of the bush road (end of the pavement, past the Tunis Power Station) taking readings at 30 second intervals. Some of the traverses had to be paced since pickets were hard to locate in some areas.

### **Results**

The results are presented here-in on a 1:5000 Plan Map posting and contouring the read values. The data was gridded using Krigid (Geosoft). The Plan map was created with Oasis Montaj. The high magnetic trend across the NE part of the survey (lines 1400E to 2700E) is interrupted near the Frederick House River. The grid does not have sufficient lines to delineate the high trend westerly in this area. The grid lines west of the river are not extended enough northerly. The picture presented by the contoured data infers that the high trend folds back onto itself southerly. The high magnetic trend continues across Len Hill's claims and continues SE onto the claims being reported-on. The narrow low magnetic inclusions within this high trend infer gabbroic rocks within. The surrounding broad mag low maps predominantly underlying Intermediate to Felsic metavolcanic rocks.

## 5.0 Conclusion

Drill testing is warranted especially north of the baseline 2400N near and along the southern contact of the northern limb of the magnetically inferred intrusive complex.

Additional grid lines should be added east of the river and north of the baseline to better delineate the complex in this area. A wide coil spaced HLEM survey on a few lines would help classify the areo-em conductors in this same area. The 2000 and 2001 IP survey also mapped resistivity lows in this said vicinity.

Respectfully Submitted;



Richard Daigle



## 6.0 Certification

I Richard Daigle residing at 139 Allan Street, South Porcupine Ontario;

- 1 I have 22 years practice in mining exploration and I am a member of Association of Geoscientists of Ontario.
- 2 Received an Electronic Technologist Certificate in 1979 from Radio College of Canada, Toronto, ON.
- 3 Experienced Max-Min (HLEM) interpretations along with field operations under the supervision of John Betz, 1979-80.
- 4 Geophysicist assistant for Texas Gulf (Falconbridge) under the supervision of Mr Doug Londry, 1981-85.
- 5 Fulfilled geophysical contracts in NE Ontario, 1985-87.
- 6 Fulfilled geophysical contracts (IP, HLEM, Mag, SP) along with property assessments in Eastern Canada, 1987-92.
- 7 Employed as exploration manager, geophysical evaluator for MC Exploration Services, Timmins, ON, 1992-97.
- 8 Owner Operator of Geoserve Canada Inc, Timmins, ON, 1997-present.
- 9 I am a member of the Association Geoscientists of Ontario (AGO).
- 10 I have no interests on the property being reported on or the company worked for.

DATE: *May 13, 02*  
Timmins, ON

  
R.J. Daigle

## 1.0 Instrument Description

- The sensor is a dual coil type designed to reduce noise and improve gradient tolerance. The coils are electrostatically shielded and contain a proton rich liquid in a pyrex bottle, which also acts as an RF resonator.
- The sensor cable is coaxial, typically RG-58/U, up to 100m long.
- The staff is made of strong aluminum tubing sections. This construction allows for a selection of sensor elevations above the ground during surveys. For best precision the full staff length should be used. Recommended sensor separation in gradiometer mode is one staff section, although two or three section separations are sometimes used for maximum sensitivity.
- The console contains all the electronic circuitry. It has a sixteen key keyboard, a 4x20 character alphanumeric display, and sensor and power input/ output connectors. The keyboard also serves as an ON-OFF switch.
- The power input/output connector also serves as a RS232 input/output and optionally as analog output and contact closure triggering input.
- The keyboard front panel, and connectors are sealed (can operate under rainy conditions)
- The charger has two levels of charging, full and trickle, switching automatically from one to another. Input is normally 110V 50/60Hz. Optionally, 12V DC can be provided.
- The all-metal housing of the console guarantees excellent EM protection.

## 2.0 Instrument Specifications

Resolution 0.01 nT, magnetic field and gradient  
Accuracy 0.20 nT over operating range  
Range 20,000 to 120,000 nT automatic tuning, requiring initial setup  
Gradient Tolerance over 10,000 nT/m  
Operating Interval 3 seconds minimum, faster optional. Reading initiated from keyboard, external trigger, or carriage return via RS-232  
Input/Output 6 pin weatherproof connectors  
Power Requirements 12V, 200mA peak, 30mA standby, 300mA peak with Gradiometer  
Power Source Internal 12V, 1.9Ah sealed lead-acid battery standard, external source optional.  
Battery Charger Input: 110/ 220VAC, 50/60Hz and/or 12VDC  
Output: 12V dual level charging  
Operating Ranges Temperatures: -40°C to +60°C  
Battery Voltages: 10.0 V min to 15.0V max  
Humidity: up to 90% relative, non condensing  
Storage Temperature -50°C to +65°C  
Dimensions Console: 223 X 69 X 240 cm  
Sensor Staff: 4 x 450mm sections

Sensor; 170 x 71 mm diameter

Weight; Console 2.1Kg Staff 0.9Kg Sensors; 1.1Kg

## Magnetic Survey

### Theory;

*The magnetic method is based on measuring alteration in the shape and magnitude of the earth's naturally occurring magnetic field caused by changes in the magnetization of the rocks in the earth. These changes in magnetization are due mainly to the presence of the magnetic minerals, of which the most common is magnetite, and to a lesser extent ilmenite, pyrrhotite, and some less common minerals. Magnetic anomalies in the earth's field are caused by changes in two types of magnetization; (1) Induced, caused by the magnetic field being altered and enhanced by increases in the magnetic susceptibility of the rocks, which is a function of the concentration of the magnetic minerals. (2) Remanent magnetism is independent of the earth's magnetic field, and is the permanent magnetization of the magnetic particles (magnetite, etc..) in the rocks. This is created when these particles orient themselves parallel to the ambient field when cooling. This magnetization may not be in the same direction as the present earth's field, due to changes in the orientation of the rock or the field. The unit of measurement (variations in intensity) is commonly known as the Gamma which is equivalent to the nanotesla (nT).*

### Method;

*The magnetometer, GSM-19 with an Overhauser sensor measures the Total Magnetic Field (TFM) perpendicular to the earth's field (horizontal position in the polar region). The unit has no moving parts, produces an absolute and relatively high resolution measurement of the field and displays the measurement on a digital lighted display and is recorded (to memory). Initially, the tuning of the instrument should agree with the nominal value of the magnetic field for each particular area. The Overhauser procession magnetometer collected the data with a 0.2 nanoTesla accuracy. The operator read each and every line at a 12.5 m interval with the sensor attached to the top of three (56cm) aluminum tubing sections. The readings were corrected for changes in the earth's magnetic field (diurnal drift) with a similar GSM-19 magnetometer, >>base station<< which automatically read and stored the readings at every 30 seconds. The data from both units was then downloaded to PC and base corrected values were computed.*



Date: 2002-AUG-19

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V6C 1L6 CANADA

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**Submission Number:** 2.24019  
**Transaction Number(s):** W0260.01278

Dear Sir or Madam

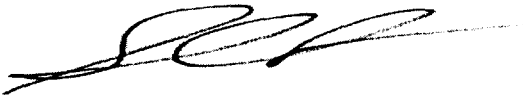
**Subject: Approval of Assessment Work**

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact STEVEN BENETEAU by email at [steve.beneteau@ndm.gov.on.ca](mailto:steve.beneteau@ndm.gov.on.ca) or by phone at (705) 670-5855.

Yours Sincerely,



Sheila Lessard  
Acting Senior Manager, Mining Lands Section

**Cc:** Resident Geologist

East West Resource Corporation  
(Claim Holder)

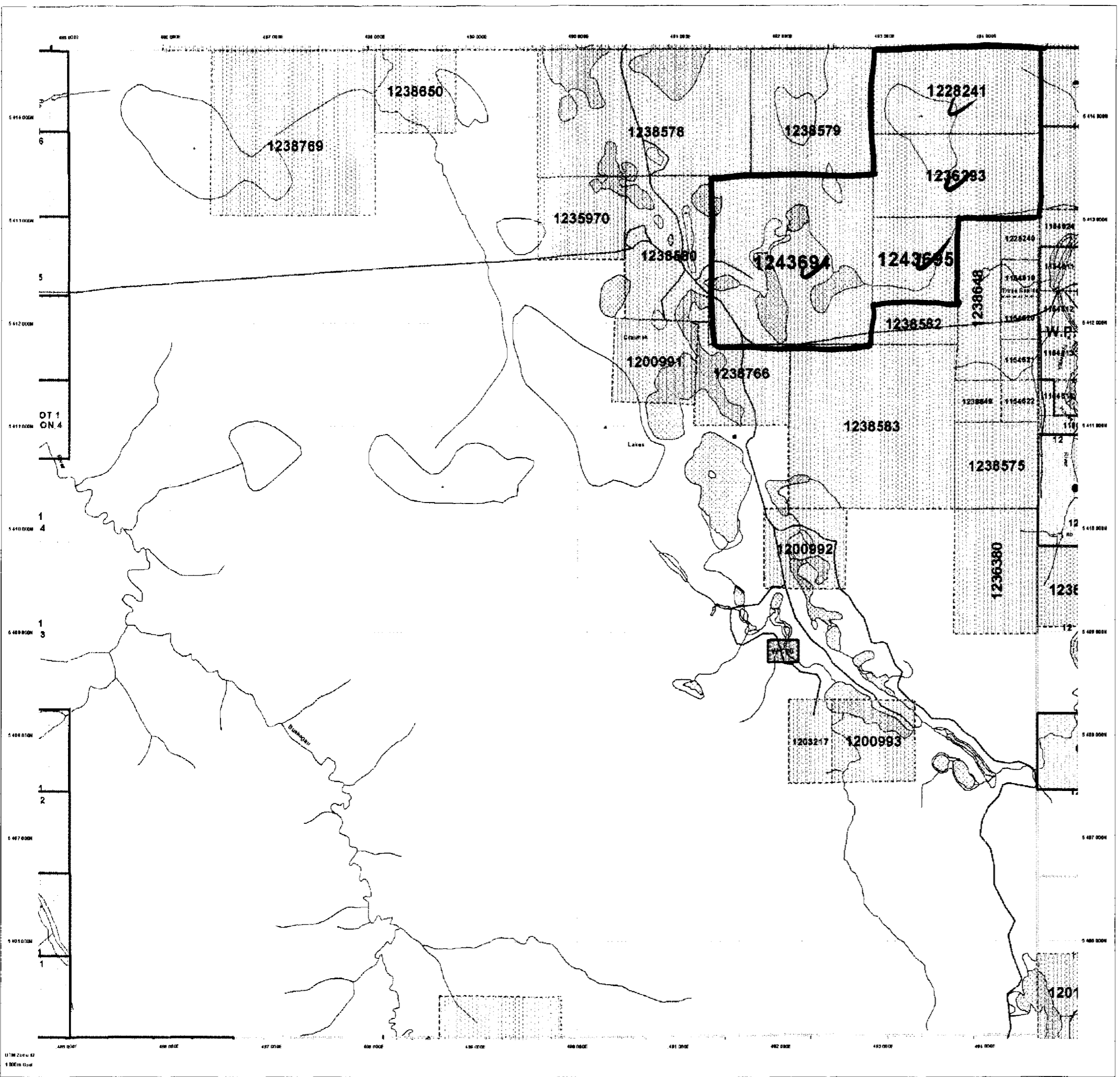
Assessment File Library

East West Resource Corporation  
(Assessment Office)

Ron Britten  
(Agent)

Date / Time of Issue Aug 7 2002 10:43h Eastern  
 TOWNSHIP / AREA PLAN  
 DUFF COCHRANE  
 G-3234

ADMINISTRATIVE DISTRICTS / DIVISIONS  
 Mining Division Porcupine  
 Land Titles/Registry Division COCHRANE  
 Ministry of Natural Resources District COCHRANE



TOPOGRAPHIC	LAND TENURE
Administrative Boundaries	Freehold Patent
Township	Surface And Mining Rights
Concession Lot	Surface Rights Only
Procedural Fee	Mining Rights Only
Open Prairie	Leasehold Patent
City, P. and P. Fee	Surface And Mining Rights
Centre	Surface Rights Only
Centre - Open or Judicial Procession	Mining Rights Only
Street	License of Occupation
Water Features	License Specified
Roadway	Surface And Mining Rights
Road	Surface Rights Only
Trail	Surface Rights Only
Natural Gas Pipeline	Mining Rights Only
Hydro Line	Land Use Permit
Decontamination	Order In Council
Wooded Area	Water Power Lease Agreement
Mining Claim (CLAIMED, PATENTED, P. Fee, Cont.)	Mining Claim

**LAND TENURE WITHDRAWALS**

Actual Withdrawal from Disposition  
 Mining Act 1986 or 1993  
 W190 Surface and Mining Rights Withdrawn  
 W191 Surface Rights Only Withdrawn  
 W192 Mining Rights Only Withdrawn  
 Order In Council 1993/10/10/10/10/10  
 W193 Surface and Mining Rights Withdrawn  
 W194 Surface Rights Only Withdrawn  
 W195 Mining Rights Only Withdrawn

**IMPORTANT NOTICES**

**LAND TENURE WITHDRAWAL DESCRIPTIONS**

Identifier	Type	Date	Description
W190	Min	Aug 6 1990	SEC 30/30 W-AD 88888-9

**IMPORTANT NOTICES**  
 Areas under which special regulations, stipulations or conditions exist that affect mining processing, mining and mineral development activities.

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Date / Time of Issue Aug 7 2002 14:51h Eastern  
 TOWNSHIP / AREA MANN PLAN G-3537

ADMINISTRATIVE DISTRICTS / DIVISIONS  
 Mining Division Porcupine  
 Land Titles/Registry Division COCHRANE  
 Ministry of Natural Resources District COCHRANE

**TOPOGRAPHIC**

- Administrative Boundaries
- Township
- Concession Lot
- Provisional Plan
- Irregular Boundaries
- City, P.E. and P.R.
- Concession Approval Authority/Department
- State
- Mineral Reserve
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Hydro Line
- Communication Line
- Watercourse
- Water Right
- Ministry of Conservation and Forests Control

**LAND TENURE**

**Freehold Patent**

- Surface and Mining Rights
- Surface Rights Only
- Mining Rights Only

**Leasehold Patent**

- Surface and Mining Rights
- Surface Rights Only
- Mining Rights Only

**Licence of Occupation**

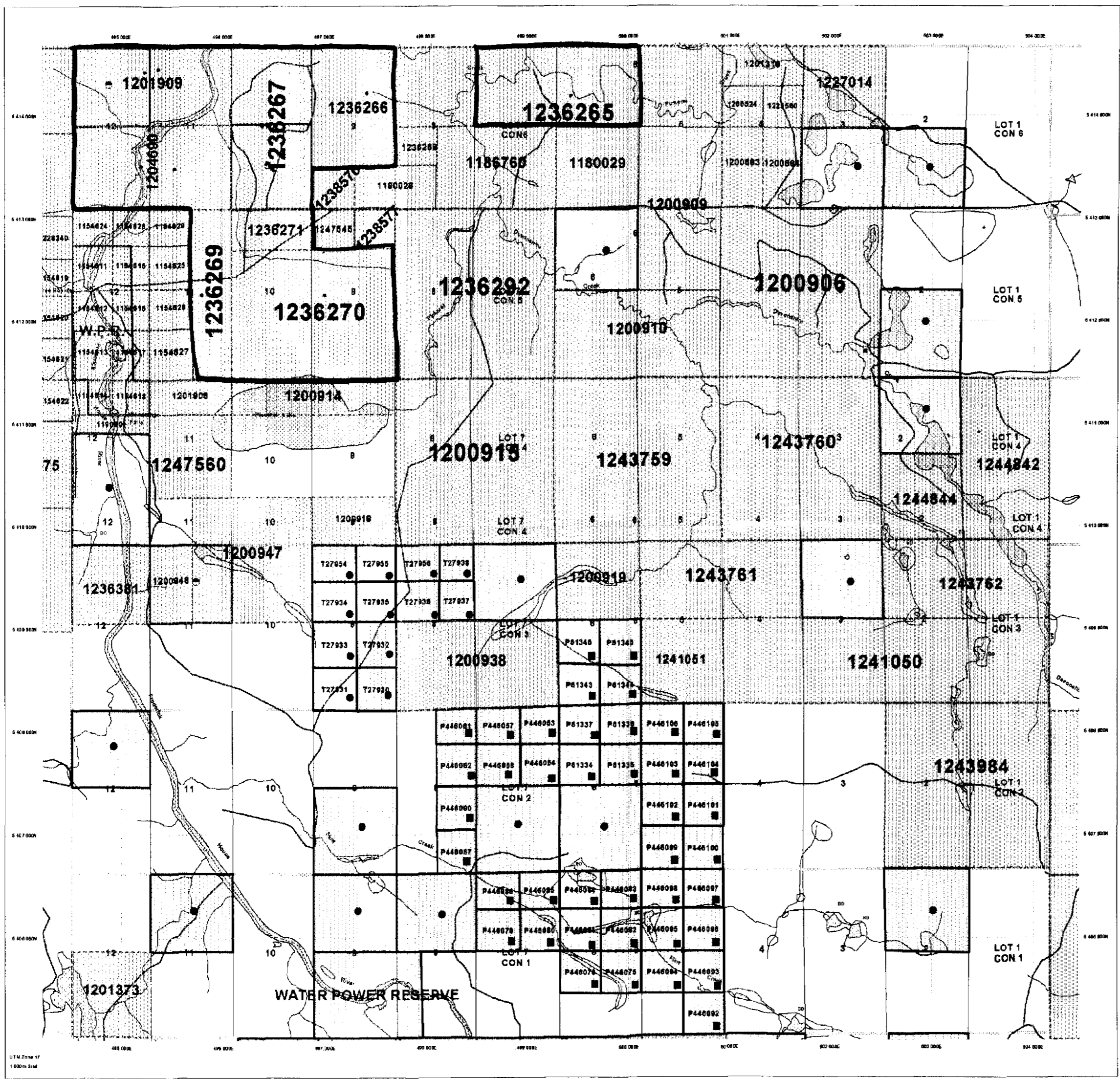
- Lease and Mining Rights
- Surface and Mining Rights
- Surface Rights Only
- Mining Rights Only

**LAND TENURE WITHDRAWALS**

- Area Withdrawn From Disposition Mining Act Withdrawal Types
- Surface and Mining Rights Withdrawal
- Mining Rights Only Withdrawal
- Order in Council Withdrawal Types
- Surface and Mining Rights Withdrawal
- Surface Rights Only Withdrawal
- Mining Rights Only Withdrawal

**IMPORTANT NOTICES**

Scale: 1:50,000



**LAND TENURE WITHDRAWAL DESCRIPTIONS**

Number	Type	Date	Description
2057	Withdrawal	Jan 1 2001	AREA RESERVED TO ONTARIO HYDRO FOR WATER POWER PURPOSES
W0101	Withdrawal	Jan 1 1991	SURFACE RIGHTS WITHDRAWN UNDER SECTION 24 OF THE MINING ACT R.E.O. UNDER ORDER W-0101

**IMPORTANT NOTICES**

Areas under which special restrictions, such as use or conditions exist that affect normal prospecting, mining and mineral development activities.

2.24019  
 MAG



**General Information and Limitations**

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