



53F15SW2001

2.18851

LINGMAN LAKE

010

**WORK PROGRAMME**  
**ON THE**  
**LINGMAN LAKE PROPERTY**

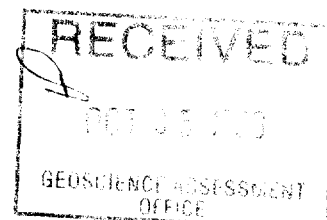
**For**

**ECHO BAY MINES LTD.**  
**AND**  
**WOLFEN RESOURCES INC.**

**By**

**VYTYL EXPLORATION SERVICES**

**Aug. 20, 1998.**



## **INTRODUCTION**

The purpose of the current work programme was to examine for the surface expression of the "West Zone" and "NW Zone" intersected in drilling by Echo Bay Mines Ltd. in 1996. The Lingman Lake Property is located in the Red Lake Mining District, and the current claims surround the Lingman Lake Mine Shaft and are host to approximately 40% of the gold deposit, reported to contain 1.3 MT grading 6.7 g/t (0.2 oz/ton).

The project area is best accessed by float or ski plane or by winter road.

## **MINERALIZATION**

Multiple mineralized zones are present at Lingman, and all the horizons pinch and swell along both strike and dip. Most of the calculated resource lies in the "North Zone" - approximately 60% of the "North Zone" resource lies on the Echo Bay claims. The "North Zone" is open along strike to the east on the current property holdings, and to depth. The Echo Bay Property also hosts the down plunge extension of the "West Zone" portion of the deposit and the western strike potential of the zone - the strike potential and significant findings from the 1996 drill programme are the purpose of the current programme.

## **1996 DRILL PROGRAMME**

The 1996 drill programme resulted in two significant findings which were followed up on surface during the current programme.

Previous drilling of the "West Zone" tested until the zone was passed through, then the holes were stopped. In the drilling by Echo Bay, the holes were allowed to continue well past the "West Zone" and resulted in the discovery of the "NW Zone". This discovery was an intersection of 7.15 g/t (0.21 oz/ton) across a 3.0m core length.

## **CURRENT WORK PROGRAMME**

The current work was to explore for the surface expression of the "West Zone" and the newly discovered "NW Zone" west of the drilling area along the eastern shore of Shoe Lake (local name). Two trenches were opened up along the shore - these trenches likely represent the "West" and "NW" Zones (See attached sketch). The representative sample taken of the "West Zone", across approximately 2.5m assayed 6.57 g/t (0.192 oz/ton) gold. The sample taken of the "NW Zone" across 1.0m assayed 9.02 g/t (0.263 oz/ton) gold. Some time was also spent manually stripping other outcrops along the shore of lake and this resulted in another new discovery. Two new mineralized shear zones were found and sampled - one assayed 0.27 g/t (0.008 oz/ton) and the north-most zone being approximately 1.0m wide assayed 8.98 g/t (0.262 oz/ton) gold.

## **CONCLUSIONS**

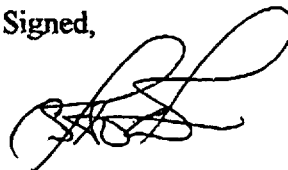
The current work was successful in identifying the two drill indicated trends on surface. These showings are west of the "West Zone" reserve area and west of the Echo Bay drilling. This is significant as it identifies an excellent target for increasing reserves - the strike potential to the west remains open. The discovery of the new zone ("West Contact Zone") to the north is exciting as it represents another target for increasing the reserves at Lingman Lake. This discovery also highlights the potential for finding further new discoveries along the Lingman Lake mineralized trend and proves the importance of drilling into the granite contact in all future drill programmes performed in the area.

## **CERTIFICATE OF QUALIFICATIONS**

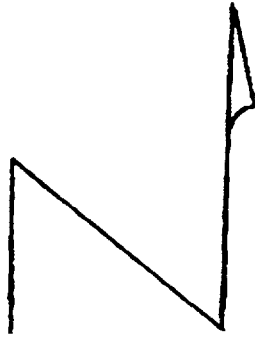
**Ewan S. Downie**

- I have been working in the mining industry for 15 years.
- I am owner and operator of Vtyl Exploration Services and Ides Explorations Inc., two companies involved in the mining industry.
- Vtyl provides, on a contract basis, exploration contracts for numerous publicly trading companies.

Signed,

A handwritten signature in black ink, appearing to be 'E. Downie', written in a cursive style.

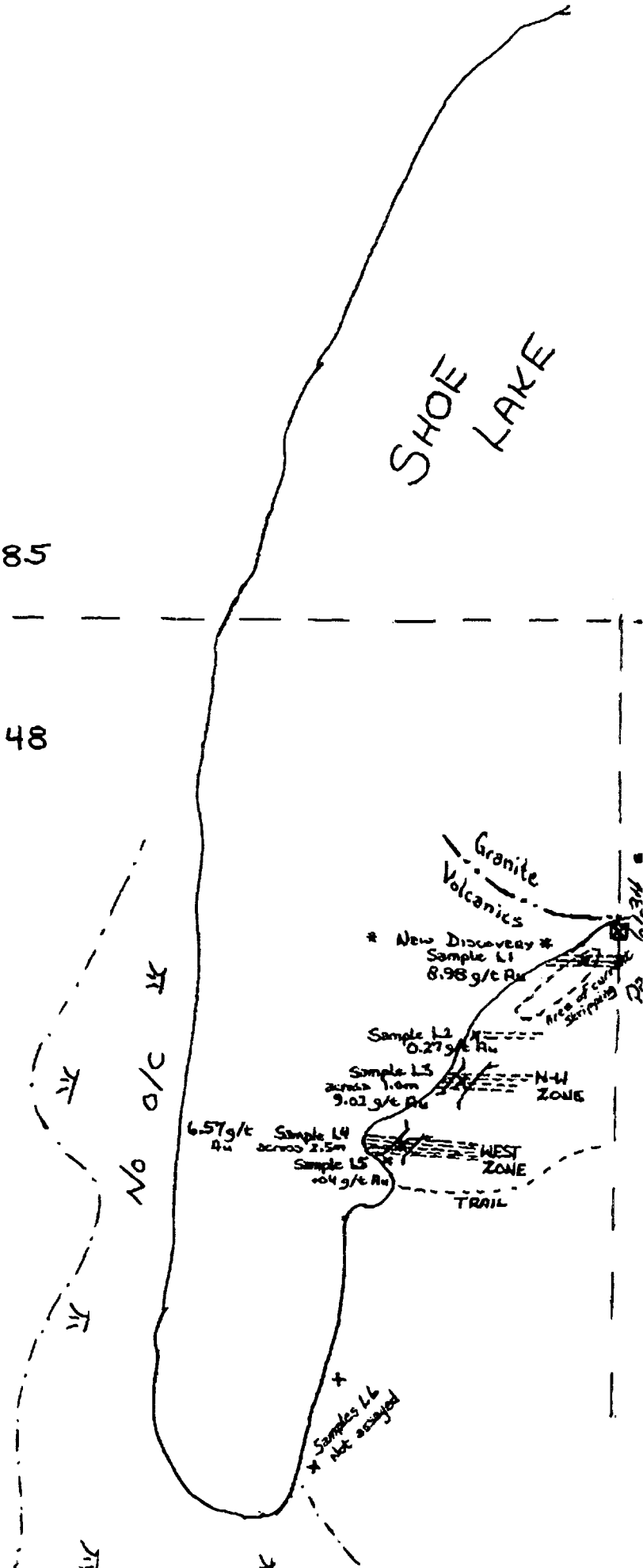
**Ewan S. Downie**  
**Vtyl Exploration Services**



SHOE LAKE

CL. 1208385

CL. 1209548



LINGMAN LAKE PROPERTY  
 Prospecting Programme  
 by Vytal Exploration Services

--- Geological contact  
 X SAMPLE LOCATION  
 ===== SHEAR ZONE  
 ~~~~~ TRENCH  
 \* - SUMMIT OR LOW CORNER



# ACCURASSAY LABORATORIES

A DIVISION OF ASSAY LABORATORY SERVICES INC.

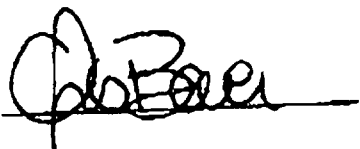
1070 LITHIUM DRIVE, UNIT 2  
 THUNDER BAY, ONTARIO P7B 6G3  
 PHONE (807) 623-6448  
 FAX (807) 623-6820

Wolfden Resources  
 4283 Loch Lomond Rd.  
 Thunder Bay, Ontario  
 P7C 4Z2

Aug 17, 1998

Job# 9840569

| Accurassay | SAMPLE #<br>Customer | Gold<br>ppb | Gold<br>Oz/t |
|------------|----------------------|-------------|--------------|
|            | 1 L1                 | 8978        | 0.262        |
|            | 2 L2                 | 272         | 0.008        |
|            | 3 L3                 | 9020        | 0.263        |
|            | 4 L4                 | 6568        | 0.192        |
|            | 5 L5                 | 36          | 0.001        |
|            | 6 L Dmp 1            | 1041        | 0.030        |
|            | 7 L Dmp 2            | 374         | 0.011        |
|            | 8 L Dmp 3            | 1657        | 0.048        |
|            | 9 L Dmp 4            | 158         | 0.005        |
|            | 10 L Dmp 6           | 1880        | 0.055        |
|            | 11 Check L Dmp 6     | 1805        | 0.053        |
|            | 12 L Dmp 7           | 22967       | 0.670        |
|            | 13 L Dmp QCarb       | 115         | 0.003        |
|            | 14 L Dmp Rst Vol 5   | 50424       | 1.471        |

Certified By: 



Ministry of  
Northern Development  
and Mines

### Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

|                                                |
|------------------------------------------------|
| Transaction Number (office use)<br>W9820.00092 |
| Assessment Files Research Imaging              |



Per:  
this  
colk

Ont: 53F15SW2001 2.18851 LINGMAN LAKE 900

Sections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, assessment work and correspond with the mining land holder. Questions about this Act may be directed to the Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, N2S 1Y9.

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.  
- Please type or print in ink.

**1. Recorded holder(s) (Attach a list if necessary)**

|                                                                              |                                                         |
|------------------------------------------------------------------------------|---------------------------------------------------------|
| Name<br><i>ECHO BAY MINES LTD.</i>                                           | Client Number<br><i>301427</i>                          |
| Address<br><i>P.O. Box 551, 569 MONETA AVE.<br/>TIMMINS, ONTARIO P4N 7E7</i> | Telephone Number<br><i>705-268-<del>5887</del> 6555</i> |
|                                                                              | Fax Number<br><i>705-268-5887</i>                       |
| Name                                                                         | Client Number                                           |
| Address                                                                      | Telephone Number                                        |
|                                                                              | Fax Number                                              |

**2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.**

Geotechnical: prospecting, surveys, assays and work under section 18 (regs)

Physical: drilling stripping, trenching and associated assays

Rehabilitation

|                                                              |                                                 |
|--------------------------------------------------------------|-------------------------------------------------|
| Work Type<br><i>GEOTECHNICAL</i>                             | Office Use                                      |
|                                                              | Commodity                                       |
|                                                              | Total \$ Value of Work Claimed<br><i>\$ 500</i> |
| Dates Work Performed From <i>11 08 98</i> To <i>11 08 98</i> | NTS Reference                                   |
| Global Positioning System Data (if available)                | Mining Division<br><i>KRR</i>                   |
| Township/Area<br><i>LINGMAN LAKE AREA</i>                    | Resident Geologist District<br><i>Lake</i>      |
| M or G-Plan Number<br><i>G-1808</i>                          |                                                 |

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;  
- provide proper notice to surface rights holders before starting work;  
- complete and attach a Statement of Costs, form 0212;  
- provide a map showing contiguous mining lands that are linked for assigning work;  
- include two copies of your technical report.

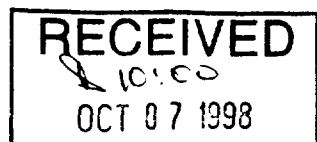
**3. Person or companies who prepared the technical report (Attach a list if necessary)**

|                                                                      |                                         |
|----------------------------------------------------------------------|-----------------------------------------|
| Name<br><i>VYTYL EXPLORATION SERVICES - EWAN S. DOWNIE</i>           | Telephone Number<br><i>807-473-6723</i> |
| Address<br><i>4283 Loch Lomond Rd. - Thunder Bay, Ont. - P7J 1H1</i> | Fax Number<br><i>807-473-1977</i>       |
| Name                                                                 | Telephone Number                        |
| Address                                                              | Fax Number                              |
| Name                                                                 | Telephone Number                        |
| Address                                                              | Fax Number                              |

**4. Certification by Recorded Holder or Agent**

I, *EWAN S. DOWNIE* (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

|                                                                          |                                         |
|--------------------------------------------------------------------------|-----------------------------------------|
| Signature of Recorded Holder or Agent<br><i>[Signature]</i>              | Date<br><i>OCT. 2/98</i>                |
| Agent's Address<br><i>4283 Loch Lomond Rd. Thunder Bay, Ont. P7J 1H1</i> | Telephone Number<br><i>807-473-6723</i> |
|                                                                          | Fax Number<br><i>807-473-1977</i>       |



5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W9820.00092

| Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map. | Number of Claim Units. For other mining land, list hectares. | Value of work performed on this claim or other mining land. | Value of work applied to this claim. | Value of work assigned to other mining claims. | Bank. Value of work to be distributed at a future date |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------|------------------------------------------------|--------------------------------------------------------|
| eg TB 7827                                                                                                                                  | 16 ha                                                        | \$26,825                                                    | N/A                                  | \$24,000                                       | \$2,825                                                |
| eg 1234567                                                                                                                                  | 12                                                           | 0                                                           | \$24,000                             | 0                                              | 0                                                      |
| eg 1234568                                                                                                                                  | 2                                                            | \$ 8,892                                                    | \$ 4,000                             | 0                                              | \$4,892                                                |
| 1 1209548                                                                                                                                   | 2                                                            | #3800                                                       | ∅                                    | #3,200                                         | #600                                                   |
| 2 1184599 - Lingman Lk. Area                                                                                                                | 16 ha                                                        | ∅                                                           | #800 <sup>ESD</sup>                  | ∅                                              | ∅                                                      |
| 3 1184598 - Lingman Lk. Area                                                                                                                | 16 ha                                                        | ∅                                                           | #800 <sup>ESD</sup>                  | ∅                                              | ∅                                                      |
| 4 <del>1184597</del>                                                                                                                        |                                                              |                                                             |                                      |                                                |                                                        |
| 5 1184600 - Lingman Lk. Area                                                                                                                | 64 ha                                                        | ∅                                                           | \$1,600                              | ∅                                              | ∅                                                      |
| 6                                                                                                                                           |                                                              |                                                             |                                      |                                                |                                                        |
| 7                                                                                                                                           |                                                              |                                                             |                                      |                                                |                                                        |
| 8                                                                                                                                           |                                                              |                                                             |                                      |                                                |                                                        |
| 9                                                                                                                                           |                                                              |                                                             |                                      |                                                |                                                        |
| 10                                                                                                                                          |                                                              |                                                             |                                      |                                                |                                                        |
| 11                                                                                                                                          |                                                              |                                                             |                                      |                                                |                                                        |
| 12                                                                                                                                          |                                                              |                                                             |                                      |                                                |                                                        |
| 13                                                                                                                                          |                                                              |                                                             |                                      |                                                |                                                        |
| 14                                                                                                                                          |                                                              |                                                             |                                      |                                                |                                                        |
| 15                                                                                                                                          |                                                              |                                                             |                                      |                                                |                                                        |
| Column Totals                                                                                                                               |                                                              | \$3800                                                      | \$3200                               | \$3200                                         | \$600                                                  |

I, Ewan S. Downie (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: ESD OCT. 2/98

6. Instructions for cutting back credits that are not approved.

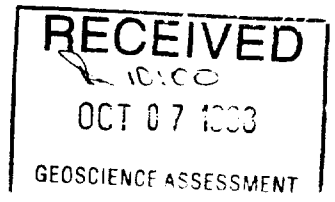
Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

|                |                                                       |                                |
|----------------|-------------------------------------------------------|--------------------------------|
| Received Stamp | Deemed Approved Date                                  | Date Notification Sent         |
|                | Date Approved                                         | Total Value of Credit Approved |
|                | Approved for Recording by Mining Recorder (Signature) |                                |







Statement of Costs for Assessment Credit

Transaction Number (office use) W9820.00092

Personal Information collected on this form is obtained under the authority of subsection 6 (1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, this information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to a Provincial Mining Recorder, Ministry of Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Table with 4 columns: Work Type, Units of work, Cost Per Unit of work, Total Cost. Rows include PROSPECTING & TRAVEL, ASSAYS, MOB-DEMOMB, and Transportation Costs.

Calculations of Filing Discounts:

- 1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work.

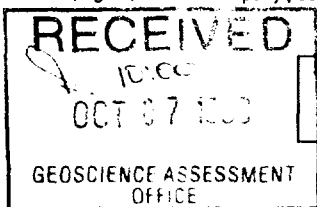
TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total \$ value of worked claimed.

Note: - Work older than 5 years is not eligible for credit. - A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification.

Certification verifying costs:

I, Ewan S. Downie, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying

Declaration of Work form as AGENT I am authorized to make this certification.



Signature and Date fields with handwritten signature and date OCT 2/98

Geoscience Assessment Office  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (888) 415-9846  
Fax: (877) 670-1555

December 24, 1998

ECHO BAY ONTARIO LTD.  
SUITE 4050, 370 17TH STREET  
ATTN: LANDS DEPARTMENT  
DENVER, COLORADO  
802-02 U.S.A.

Visit our website at:  
[www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm](http://www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm)

Dear Sir or Madam:

**Submission Number:** 2.18851

**Status**

**Subject: Transaction Number(s):** W9820.00092 Approval

---

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at [bruce.gates@ndm.gov.on.ca](mailto:bruce.gates@ndm.gov.on.ca) or by telephone at (705) 670-5856.

Yours sincerely,



ORIGINAL SIGNED BY  
Blair Kite  
Supervisor, Geoscience Assessment Office  
Mining Lands Section

# Work Report Assessment Results

**Submission Number:** 2.18851

**Date Correspondence Sent:** December 24, 1998

**Assessor:** Bruce Gates

**General Comment:**

In future submissions please include a key map in the report to assist in locating the work. Unless full disclosure of costs is presented a \$.30/km rate as set by OPAP will be used for assessment work submissions.

---

| <b>Transaction Number</b> | <b>First Claim Number</b> | <b>Township(s) / Area(s)</b> | <b>Status</b> | <b>Approval Date</b> |
|---------------------------|---------------------------|------------------------------|---------------|----------------------|
| W9820.00092               | 1209548                   | LINGMAN LAKE                 | Approval      | January 03, 1999     |

**Section:**

12 Geological GEOL

**Correspondence to:**

Resident Geologist  
Red Lake, ON

Assessment Files Library  
Sudbury, ON

**Recorded Holder(s) and/or Agent(s):**

Ewan Downie  
THUNDER BAY, ONTARIO, CANADA

ECHO BAY ONTARIO LTD.  
DENVER, COLORADO

REFERENCES

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 |
|-------------|-----------|------|-------------|------|
|             |           |      |             |      |

LEGEND

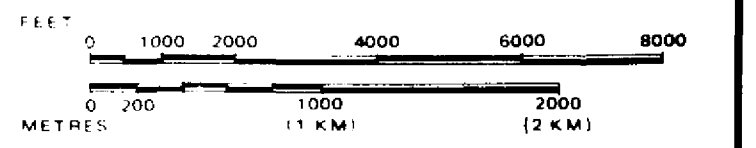
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKIEG
- 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                |        |
| RESERVATION                     |        |
| CANCELLED                       |        |
| SAND & GRAVEL                   |        |

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

SCALE: 1 INCH = 40 CHAINS



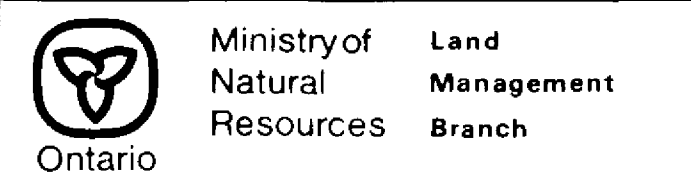
DATE OF ISSUE

APR 20 1989

PROVINCIAL RECORDING OFFICE - SUDBURY

AREA LINGMAN LAKE

M.N.R. ADMINISTRATIVE DISTRICT  
 RED LAKE  
 MINING DIVISION  
 RED LAKE  
 LAND TITLES / REGISTRY DIVISION  
 KENORA (Patricia Portion)



Date: NOVEMBER 1984

Number: G-1808

