

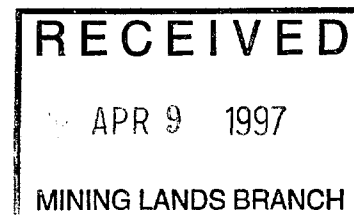


41P15NW0010 2.17200 MIDLOTHIAN

010

**OREZONE RESOURCES INC.  
MIDLOTHIAN TOWNSHIP PROPERTY  
REPORT ON PROSPECTING AND SAMPLING  
of the LAROMA SHOWING  
NTS 41 P/14**

**2.17200**



## MIDLOTHIAN TOWNSHIP PROPERTY

### *Introduction and Summary*

Between October 27 and October 28, 1996, prospecting and sampling was carried out on Orezone Resources' Midlothian Township property. In the course of prospecting a green mica and carbonate alteration zone was traced for over 300 meters.

A total of 3 rock samples were taken from the property for gold assay

### *Property, Location and Access*

The Midlothian property is located in north east Midlothian Township within the Larder Lake Mining Division of Northeastern Ontario. The property consists of 18 contiguous blocks with a total of 103 claim units. The blocks are listed below in Table 1 and in figure 1.

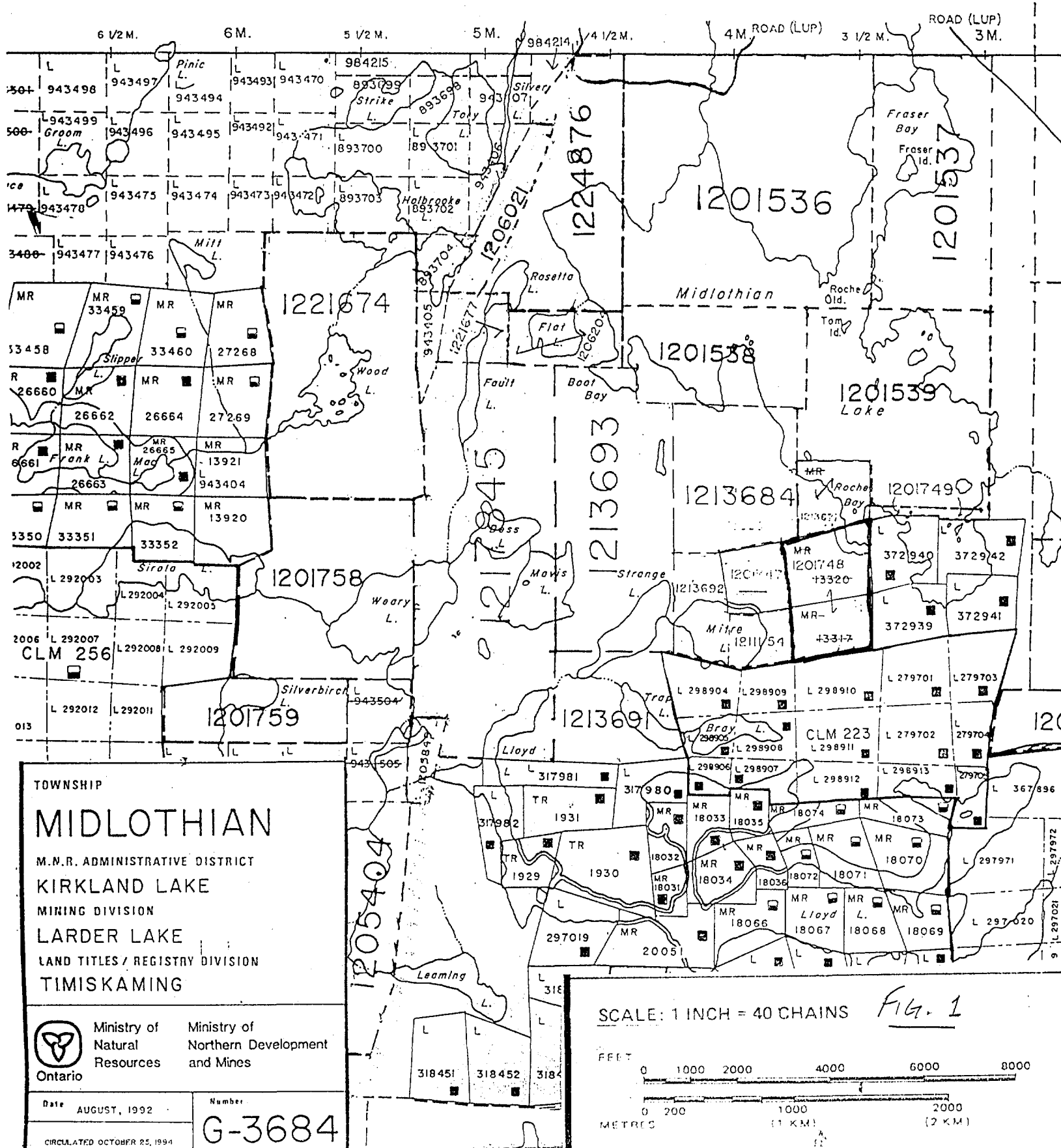
CLAIM #	UNITS	STAKED	EXPIRE	WORK REQUIRED	WORK APPLIED	RESERVE
1201535	12	1995 APR 13	1997 APR 13	4800		
1201536	16	1995 APR 13	1998 APR 13	5600		
1201537	8	1995 APR 13	1997 APR 13	3600	2400	
1201538	5	1995 APR 13	1998 APR 13	2000		
1201539	9	1995 APR 13	1998 APR 13	3600		
1201747	1	1995 MAY 2	1998 MAY 2	400		
1201748	3	1995 MAY 2	1998 MAY 2	1200		1441
1201749	1	1995 MAY 2	1998 MAY 2	400		
1206021	2	1995 MAR 31	1997 MAR 31	800		
1211154	1	1996 OCT 1	1998 OCT 1	400		
1213671	2	1996 OCT 1	1998 OCT 1	800		
1213684	5	1996 OCT 1	1998 OCT 1	2000		
1213691	4	1996 OCT 1	1998 OCT 1	1600		
1213692	2	1996 OCT 1	1998 OCT 1	800		
1213693	9	1996 OCT 1	1998 OCT 1	3600		
1217845	12	1996 OCT 7	1998 OCT 7	4800		
1221677	1	1996 OCT 17	1998 OCT 17	400		
1221674	10	1997 FEB 28	1999 FEB 28	4000		
18	103					

Table 1.

The property is located on topographical map sheet 41 P/14, with a longitude of 81° West and a latitude of 47° 55' North. UTM coordinates are: 500155E and 5304313N near the centre of the property.

Access to the property is excellent. Highway 66 travels west of Kirkland Lake to Matachewan. An all weather road crosses the Montréal river and continues west to a gravel road that continues toward Midlothian Township and the old asbestos mine. A narrow forest trail continues north from this road to the south edge of the property and eventually to Mitre Lake.

# MONTROSE TWP.



TOWNSHIP

**MIDLOTHIAN**

M.N.R. ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

MINING DIVISION

LARDER LAKE

LAND TITLES / REGISTRY DIVISION

TIMISKAMING



Ministry of  
Natural  
Resources

Ministry of  
Northern Development  
and Mines

Date AUGUST, 1992

Number

**G-3684**

CIRCULATED OCTOBER 25, 1994

SCALE: 1 INCH = 40 CHAINS

FIG. 1

FEET

0 1000 2000 4000 6000 8000

METRES

0 200 1000 2000  
(1 KM) (2 KM)

## ***Previous Work***

The Halliday Dome area has been explored since the turn of the century, with increased activity in the 1960's. Gold exploration has gone through several cycles including the early 1900's, the 1930's and from 1940 to the early 1970's. An Indian land caution halted exploration in the area for over two decades.

Savage(1963), a government geologist reported that gold was first found in Midlothian Township in 1909. Roche discovered gold mineralization on the Laroma Prospect in 1940, which is now covered by claims 1201747 and 1201748. The Stairs mine produced gold in the mid 1960's and lies to the west of claim 1221674

Mineralization has been found on or near the Midlothian property in several locations including:

- Felix Roche found gold on these claims in 1940 in a green carbonate alteration zone. Later stripping and sampling a portion of the alteration zone indicated gold mineralization. A 60 pound bulk sample returned 0.76 oz/ton Au.
- Government geologist found visible gold in the trenches in 1963 and estimated the carbonate alteration zone to be 4000 feet long and up to 400 feet wide.
- The Wood Lake Zone in claim 1221674 was initially part of the Stairs Mine Property and was drilled by Stairs and by Riocanex. Drill holes intersected 0.53 oz/ton over 8 feet in one hole and 0.77 oz/ton over 5 feet in another hole. It is not known whether the two intersections are on the same structure.

## ***General Geology***

The Midlothian Township property is located in the Halliday Dome area within the western portion of the Abitibi Subprovince of the Superior Province. Midlothian Township is located on the southeast quadrant of the dome and consists of intermediate to felsic volcanics, flows and pyroclastics, "Temiskaming" sediments and a series of mafic to ultramafic sills. The Coleman Member of the Gowganda Formation lies unconformably on top of the Archean volcanics and sediments.

It is thought that the Larder Lake Break extends beneath the Gowganda Formation west of Matachewan and continues through the south portion of Midlothian Township. WMC International, a large Australian mining and exploration company has a large land package over the assumed position of the break, just to the east of Orezone's Midlothian Property.

## ***Local Geology***

The Midlothian Township Property is underlain by intermediate to felsic flows and pyroclastic rocks to the south. The north half of the property is underlain by "Temiskaming" type sediments: mostly conglomerates, greywackes and siltstone. Several areas of carbonate and green mica alteration have been uncovered on the property: along the contact of the volcanics and sediments in the vicinity of Midlothian and Mitre Lakes, and in the Wood Lake #2 Zone again along the contact of the volcanics and the sediments.

## ***Survey and Results***

The survey was to confirm the location of the green mica carbonate alteration zone and to take several grab samples from the old pits. The Laroma showing was located in claim #1201748 by following an old trail from the forest access road north-east for 200 metres.(see figure 2.) There was evidence of previous stripping and trenching in three locations along a distance of 400 metres, in a north south direction. The green alteration was most intense in pit #1 where quartz veining was also evident. The quartz veining was generally in an east-west direction. The rock was silicified and fine grained with trace pyrite and minor ankeritic staining. The rock observed in the two subsequent trenches were less green in colour but maintained the same amount of ankerite staining. The most northerly of the trenches (pit #3) exhibited up

to 1% pyrite and trace chalcopyrite. An outcrop located 20m north-east of pit #3 was a pebble conglomerate with minor ankerite alteration.

Evidence of diamond drilling was found around the middle of the two trenches, with EX or AX size drill rods and water hose laying on the ground. No collar location was found.

Sample	Location UTM	Assay in ppb Au	Description
MID#01	500155E 5304313N	13	Green mica? alteration with brown ankerite rind. 5% narrow QTZ stringers with trace pyrite. strike of Quartz veins @ 80°
MID#02	500117E 5304713N	<5	Light grey-green, massive with sugary texture. Quartz carb veining. Trace to 1% fg pyrite. Ankerite weathered rind..
MID#03	500059E 5304575N	75	Good carbonate alteration, moderate green mica alteration. Fine grained matrix, locally brecciated with quart and carbonate infill. Trace to 1% py, cpy

**Table 2.**

### **Recommendations**

In order to follow up mineralization in the Laroma green mica + carbonate showing, the following is recommended:

- Strip the overburden and vegetation away from the 400 metre strike length of the showing, as well as North and south of this to indicate the nature of the unaltered country rock.
- Systematically map and channel sample the alteration zone to indicate any potential for wider lower grade mining possibilities.
- Perform a detailed magnetics survey across the showing and surrounding area to indicate any strike extension to the zone.

A second target that warrants some follow up is the Wood Lake #2 showing in claim 1221674. With apparently similar alteration as the Laroma showing and with historical values from diamond drilling, the area must be located, prospected and sampled.

The remainder of the property should be prospected, with emphasis on the sediment/volcanic contact and priority areas will be chosen for detailed mapping, sampling and geophysics.

### **Conclusions**

The Midlothian Township property has good potential to host gold mineralization. The property lies on or adjacent to the extension of the Larder Lake Break and hosts alteration similar to that found in ore rock at the Kerr Mine in Kirkland Lake. "Temiskaming" type sediments occur on the property, and the contact with intermediate to felsic volcanics is a high priority target area for gold mineralization.

The green carbonate alteration talked about in early reports may in fact be green mica and carbonate alteration. This could be confirmed with thin section work at a later date.

### **References**

Bright, E.G..

1970: Geology of Halliday and Midlothian Townships; Ontario Department of Mines, Geological Report 97

**Certificate**

I, Jeffrey Scott Ackert of 2944 Pierce Road, North Gower, Ontario, do hereby certify that:

1. I have written this assessment report on behalf of Orezone Resources Inc.
2. I have been directly involved in the planning and implementation of the field work on the Midlothian Township property. I have supervised the work that was done on the property.
3. I am a geologist, having graduated with an Honours BSc from the University of Toronto in 1985.
4. I have practiced as a professional geologist since graduation, in exploration and production mining. I have worked for Barrick Gold, Lac Minerals, Bond Gold Canada, St. Joe Canada, BHP, Noranda, Matagami Lake Exploration, Derry, Michener and Booth and several junior exploration companies.

Jeffrey Scott Ackert  
March 2, 1997  
Ottawa, Ontario.

*Quoted #  
2.10668*



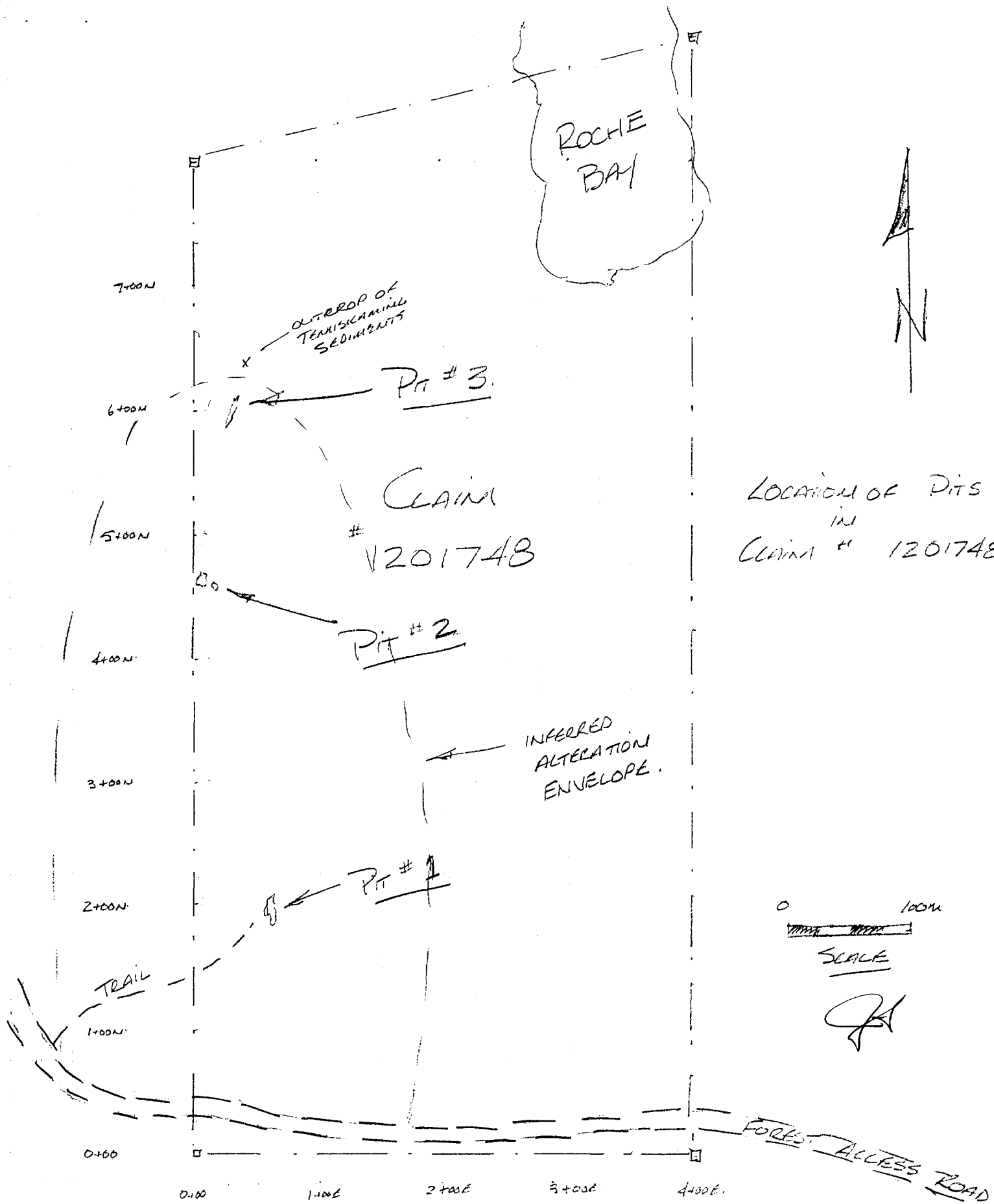
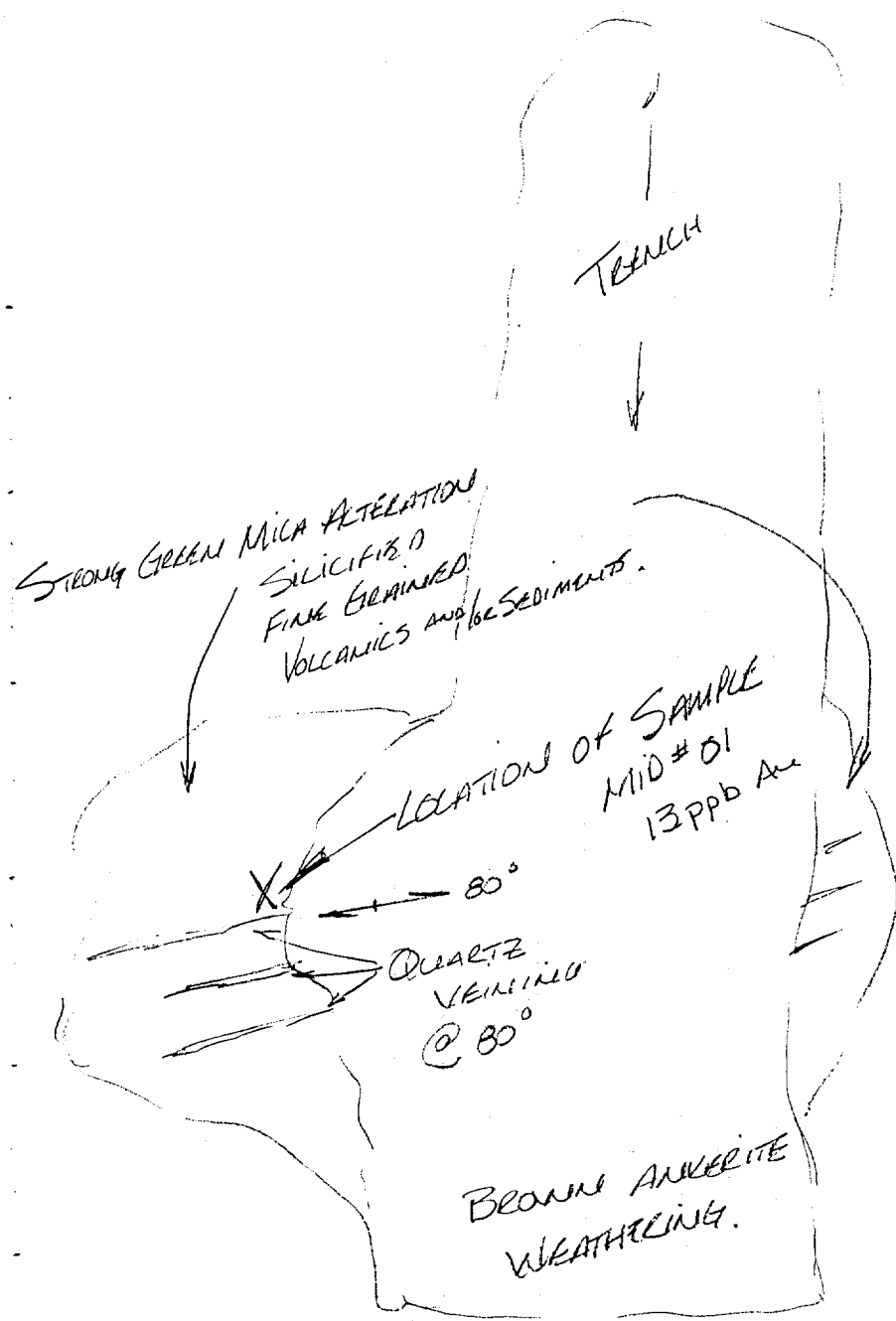


FIG 2.



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PLAN VIEW OF PIT # 1

FIG. 3.



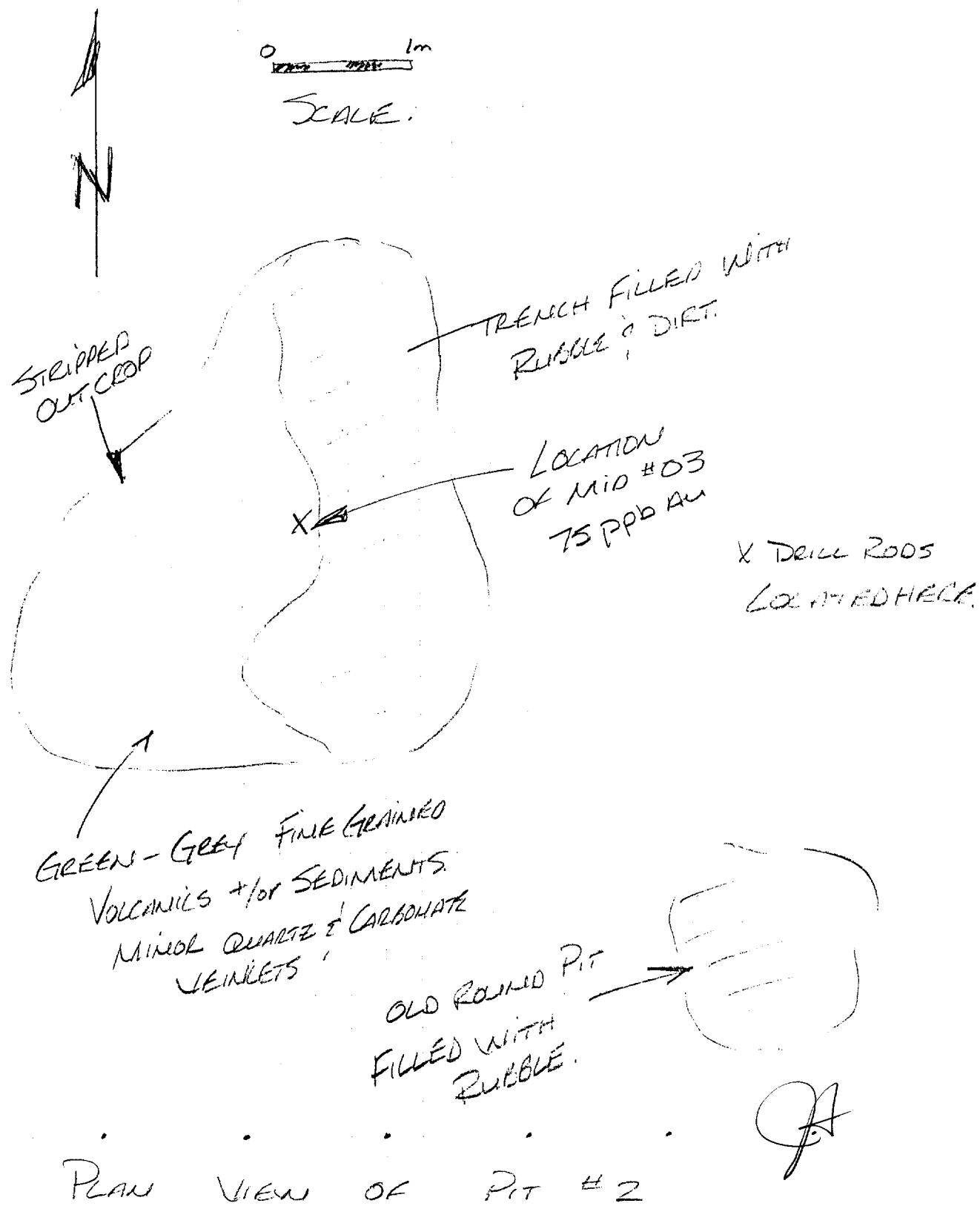
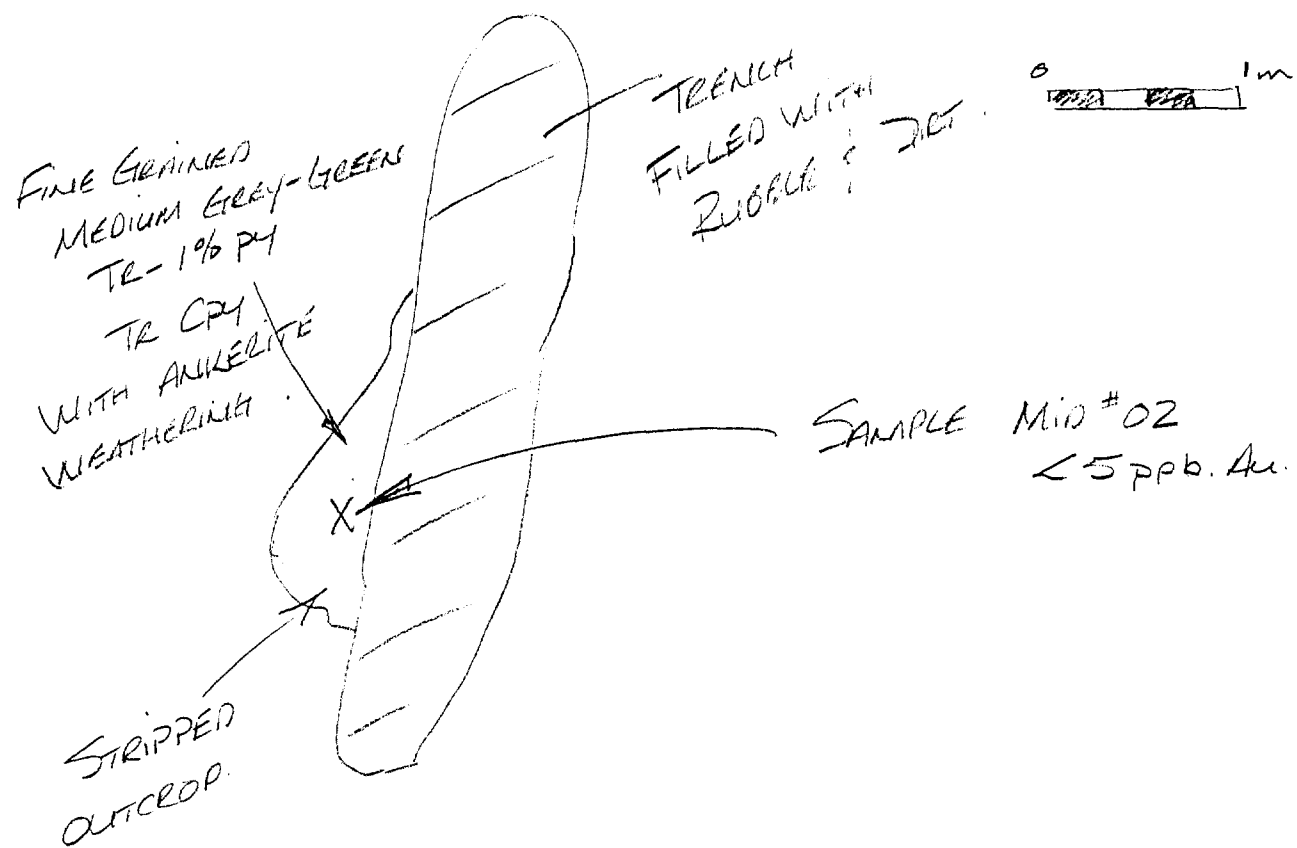


FIG # 1.



PLAN VIEW OF PIT # 3.

FIG #5



Transaction Number (office use)
W19780.00252
Assessment Files Research Imaging

Personal Info Mining Act, t Questions a 933 Ramsey



41P15NW0010 2.17200 MIDLOTHIAN

35(2) and 66(3) of the Mining Act. Under section 8 of the assessment work and correspond with the mining land holder. Ministry of Northern Development and Mines, 6th Floor,

900

17200

Instructio.

- Please type or print in ink.

a claim, use form 0240.

SEE ATTACHED LIST

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

Name FILO, JOHN KEVIN	Client Number 131784
Address 535 BARTLEMAN ST. TIMMINES, ON P4N 4Y2	Telephone Number 705 235 2474 Fax Number 705 268 0371
Name JONES, DAVID V.	Client Number 149868
Address P.O. Box 1513, 909 Government Rd. South Pelee Island, ON, P0N 1H0	Telephone Number 705 235 2474 Fax Number 705 235 2213

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

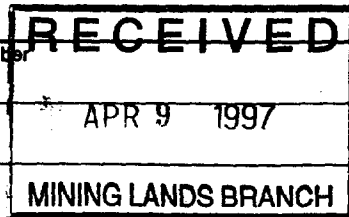
- Geotechnical: prospecting, surveys, assays and work under section 18 (regs)
- Physical: drilling, stripping, trenching and associated assays
- Rehabilitation

Work Type PROSPECTING, SAMPLING, MAPPING	Office Use
Dates Work Performed From 27 10 96 To 28 10 96	Commodity
Global Positioning System Data (if available) 500155E 5304313N	Total \$ Value of Work Claimed 1307 <i>Appl 800 Fee 507</i>
Township/Area MIDLOTHIAN	NTS Reference
M or G-Plan Number G3684	Mining Division Larder Lake
	Resident Geologist District "Highland"

- 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 JEFF ACKERT	Telephone Number 613 241 3699
Address 174 COBOURG ST. OTTAWA, ON K1N 6K5	Fax Number 613 241 6005
Name LARDER LAKE MINING DIVISION	Telephone Number
Address	Fax Number
Name APR 1 1997 10:30x	Telephone Number
Address	Fax Number



4. Certification by Recorded Holder or Agent

I, JEFF ACKERT (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 <i>Jeff Ackert</i>	Date MARCH 26/97
Agent's Address 174 COBOURG ST. OTTAWA ON K1N 6K5	Telephone Number 613 241 3699 Fax Number 613 241 6005

Document - memo 27/97

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

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 1201748	3	\$1307.50	—	\$800.00	\$507.50
2 1206021	2	0	\$800.00	0	0
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals		\$1307.50	\$800.00	\$800.00	\$507.50

TDm

**2.17200**

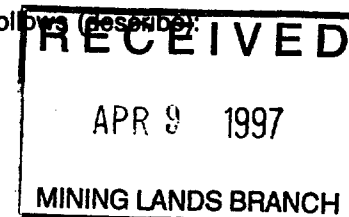
I, JEFF ACKERT (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: [Signature] Date: MARCH 26/97

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 <u>97 Jun 30</u>	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature) <u>[Signature]</u>	

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, the 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 the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
PROSPECTING	2 DAYS	\$ 150.00	\$ 300.00
SAMPLES	3	\$ 10.50	\$ 31.50
REPORT	1 DAY	\$ 150.00	\$ 150.00
			<b>2,172.00</b>
<b>Associated Costs (e.g. supplies, mobilization and demobilization).</b>			
SUPPLIES		\$ 125.00	\$ 125.00
MOB - DEMOB FROM OTTAWA TO TIMMINIS/K.L.		\$ 419.00	\$ 419.00
<b>Transportation Costs</b>			
MILEAGE TRUCK FROM K.L. TO PROP. 240km		\$ 0.30/km	\$ 72.00
<b>Food and Lodging Costs</b>			
FOOD		\$ 60.00	\$ 60.00
LODGING 2 NIGHTS		\$ 75/NIGHT	\$ 150.00
<b>Total Value of Assessment Work</b>			<b>\$ 1307.50</b>

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. If this situation applies to your claims, use the calculation below:

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. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

**RECEIVED**  
APR 9 1997  
MINING LANDS BRANCH

Certification verifying costs:

I, JEFF ACKERT (please print full name), 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 EXPLORATION MANAGER I am authorized (recorded holder, agent, or state company position with signing authority) to make this certification.

Signature: Jeff Ackert Date: March 26/97



April 30, 1997

Roy Spooner  
Mining Recorder  
4 Government Road East  
Kirkland Lake, ON  
P2N 1A2

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

Telephone: (705) 670-5853  
Fax: (705) 670-5863

Dear Sir or Madam:

Submission Number: 2.17200

**Status**

**Subject: Transaction Number(s):** W9780.00252 Deemed 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.

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

NOTE: This correspondence may affect the status of your mining lands. Please contact the Mining Recorder to determine the available options and the status of your claims.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at [jerome\\_l@torv05.ndm.gov.on.ca](mailto:jerome_l@torv05.ndm.gov.on.ca) or by telephone at (705) 670-5858.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Ron C. Gashinski".

ORIGINAL SIGNED BY  
Ron C. Gashinski  
Senior Manager, Mining Lands Section  
Mines and Minerals Division

## Work Report Assessment Results

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**Submission Number:** 2.17200

**Date Correspondence Sent:** April 30, 1997

**Assessor:** Lucille Jerome

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<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9780.00252	1201748	MIDLOTHIAN	Deemed Approval	April 29, 1997

**Section:**

9 Prospecting PROSP

**Correspondence to:**

Mining Recorder  
Kirkland Lake, ON

Resident Geologist  
Kirkland Lake, ON

Assessment Files Library  
Sudbury, ON

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

Jeffrey Scott Ackert  
OTTAWA, ONTARIO, CANADA

JOHN KEVIN FILO  
TIMMINS, Ontario

DAVID V. JONES  
SOUTH PORCUPINE, Ontario

THOMAS JOHN ELI OBRADOVICH  
KIRKLAND LAKE, Ontario

JOCELYNE ANNE KIDSTON  
SWASTIKA, Ontario

LESLIE MICHAEL DYMENT  
Swastika, Ontario

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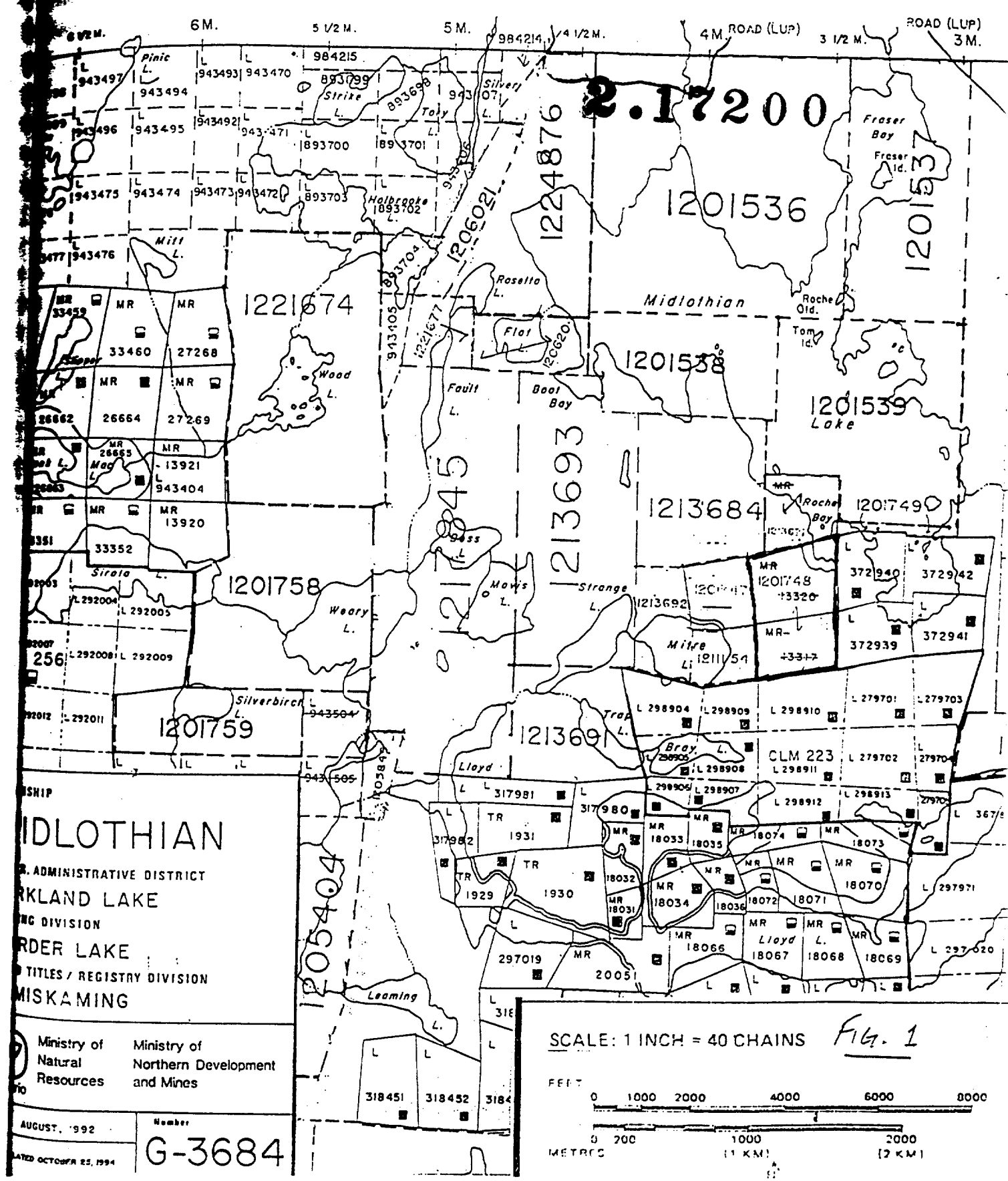


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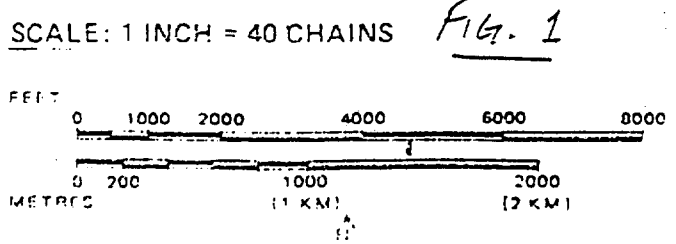
MINING LANDS BRANCH

MONTROSE TWP.



SHIP  
**MIDLOTHIAN**  
 ADMINISTRATIVE DISTRICT  
 KLAND LAKE  
 NG DIVISION  
 RDER LAKE  
 TITLES / REGISTRY DIVISION  
 MISKAMING

Ministry of Natural Resources  
 Ministry of Northern Development and Mines  
 AUGUST, 1992  
 LATED OCTOBER 25, 1994  
 Number  
**G-3684**



Bank. Value of wo.  
to be distributed  
at a future date.

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TOM OBRADOVICH (177382)

Ph. 705 567 6883

P.O. Box 1146  
KIRKLAND LAKE, ONT.  
P2M 3M7.

2.17200

(151995) (128504)

JOCELYN KIRSTON & MIKE DYMENT

Ph. 705 268 9045

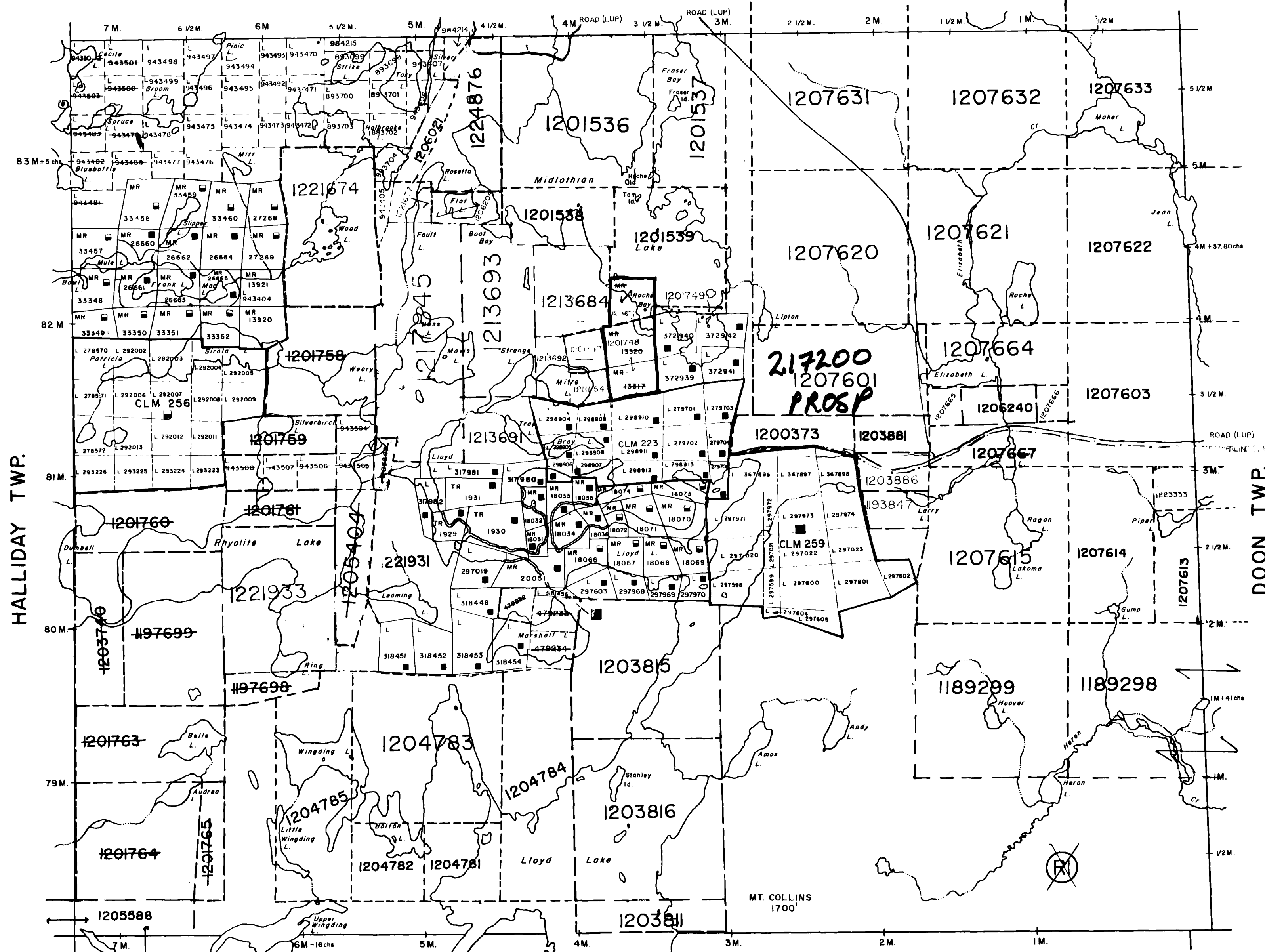
P.O. Box 66  
SWASTIKA, ONTARIO  
POK 1T0

RECEIVED  
APR 9 1997  
MINING LANDS BRANCH

AREAS WITHDRAWN FROM DISPOSITION

I.R.O.	MINING RIGHTS ONLY			
R.O.	SURFACE RIGHTS ONLY			
I.+S.	MINING AND SURFACE RIGHTS			
Description	Order No.	Date	Disposition	File
(M)	NRW 65/83	10/11/83	M.+S.	
(M)	71/54 NR	27/06/84	M.+S.	
(R)	Miner & Surface Rights Resealed to prospecting, sale or lease Order No. 1 previously withdrawn under Order No. 1/2/83			

MONTROSE TWP.



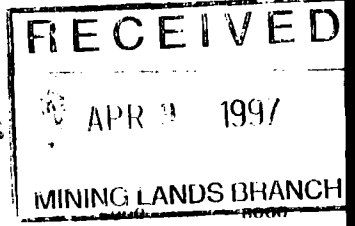
THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDS, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

LEGEND

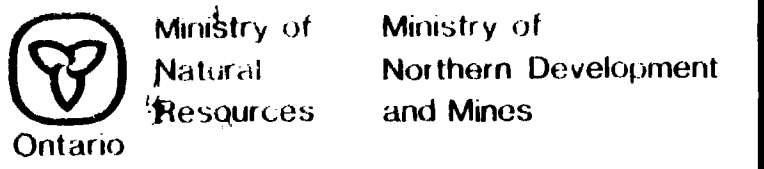
ROADWAY AND ROUTE No.	
RAILROADS	
DEALS	
SURVEYED LINES	
FRANCHISES, BASE LINES, ETC.	
MINING CLAIMS, PARCELS, ETC.	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC.	
RAILWAY AND RIGHT OF WAY	
SECURITY LINES	
NON PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATIONS	
OFFICIAL SHORELINE	
MATERIAL MUCKETS	
MINES	
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
BASELINE SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LEASE SURFACE & MINING RIGHTS	
LEASE SURFACE RIGHTS	
MINING RIGHTS ONLY	
LEASE SURFACE & MINING RIGHTS	
LEASE SURFACE RIGHTS	
MINING RIGHTS ONLY	
LEASE SURFACE & MINING RIGHTS	
LEASE SURFACE RIGHTS	
MINING RIGHTS ONLY	
LEASE SURFACE & MINING RIGHTS	
LEASE SURFACE RIGHTS	
MINING RIGHTS ONLY	



TOWNSHIP  
**MIDLOTHIAN**  
 M.M.B. ADMINISTRATIVE DISTRICT  
 KIRKLAND LAKE  
 MINING DIVISION  
 LARDER LAKE  
 LAND TITLES / REGISTRY DIVISION  
 TIMISKAMING



Date AUGUST, 1992  
 Number  
**G-3684**  
 CIRCULATED OCTOBER 25, 1994

ARCHIVED OCTOBER 4, 1996

217200

