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FINAL REPORTRECEIVED MANVILLE - MUNRO

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JUN 18 1998

GEOSCIENCE ASSESSMENT OFFICE

Project Number: 7777-143

Prepared for:
Mr. R. H. Tays
FALCONBRIDGE LIMITED
Toronto, Ontario

Note:

The practice of the Company in issuing reports of this nature is to require the recipient not to publish the proposal, report or any part thereof without the written consent of Lakefield Research Limited.

Prepared By: LAKEFIELD RESEARCH LIMITED Environmental Services

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January, 1995

LAKEFIELD RESEARCH

ENVIRONMENTAL SERVICES

MEMO

Date: January 9, 1995

From: Jamie L.Quesnel

Memo re: Final Report Manville-Munro LR #7777-143

Memo to: Mr. R. Tays - Falconbridge - Toronto

Copy to: S. Wade Stogran

Introduction

The Manville-Munro property is located in Beatty and Munro Townships which is located in the District of Cochrane. The total area of the property is 640 hectares. This reports documents the reclamation program which was performed on Mining Claim L25634 in Beatty Township.

The reclamation program was proposed on November 21, 1994, by Lakefield Research and was approved by R.H. Tays of Falconbridge, Toronto in a memo dated November 25,1994. The project started on December 7 and was completed by December 12, 1994.

Reclamation

The reclamation program included demolition and burning of the headframe, ore bin and building, which were all constructed mainly of wood. Once the buildings were demolished and burning, the existing concrete cap and the internal wooden bulkhead were removed to access the shaft. Water was observed 6 metres below the collar elevation. The shaft was approximately 168 metres deep. This depth was based on the

volume of asbestos ore (estimated volume of 1000 tonnes) and the wasterock placed in the shaft during the reclamation program. Wasterock which was not placed in the shaft was contoured. Additional rock was also placed over the shaft to compensate for compaction and/or slouphage. This may occur to the rock placed in the shaft. Local clay was placed over the entire site to an approximate depth of .3 metres.

Access to the site required the crossings of two creeks. This was approved by the Ministry of Natural Resources, Kirkland Lake. The approved method of crossing was fording of the 2 watercourses (as per work permit no. KLM94-M157).

Analytical Results

Rock samples were sent to the Lakefield Research laboratory for testing. The samples were tested for Acid Base Accounting (B.C. Research Method), asbestos concentration and analyses for metals using an ICP scan.

Table 1 shows the sample numbers and their description. Four samples were taken at the Manville-Munro minesite and the fourth was taken at the Johns Manville wasterock dump.

Table 1 Sample Locations

SAMPLE #	DESCRIPTION
100	wasterock south of shaft
101	wasterock north of shaft
102	asbestos ore at ore bin area
103	wasterock west of shaft area
104	wasterock at Johns Manville

Table 2 shows the results of the Acid Base Accounting static test by using the B.C. Research method. All materials have a net acid consuming ability.

Table 2 B.C. Research Acid Production Potential Test

Sample	S %	S = %	Wt. (g)	H2SO4 (ml)	APP (A)	ACA (A)	NACA (A)	Paste pH
100	0.18	0.15	10	11.45	5.5	56	51	9.82
Duplicate	0.18	0.15	10	11.45	5.5	56	51	
101	0.26	0.26	10	13.30	8.0	65	57	8.58
Duplicate	0.26	0.26	10	13.45	8.0	66	58	
102	0.06	0.05	10	17.10	1.8	84	82	9.10
Duplicate	0.06	0.05	10	17.10	1.8	84	82	
103	0.18	0.15	10	12.05	5.5	59	54	9.24
Duplicate	0.18	0.15	10	11.90	5.5	58	53	7.4
104	0.09	0.07	10	14.80	2.8	73	70	9.04
Duplicate	0.09	0.07	10	15.10	2.8	74	71	7,01

APP (Acid Production Potential) ACA (Acid Consuming Ability) NACA (Net Acid Consuming Ability) = ACA-APP (A) Kg H2SO4 / Tonne

Table 3 summarizes and shows that the ACA: APP ratio of the rock analyzed to be greater than 4:1. This indicates that none of the samples will produce acid.

Table 3 ACA / APP Ratio

Sample	APP Kg H2SO4 / Tonne	ACA Kg H2SO4 / Tonne	ACA: APP Ratio
100	5.5	56	10.2 : 1
Duplicate	5.5	56	10.2 : 1
101	8.0	65	8.1 . 1
Duplicate	8.0	66	8.3 : 1
102	1.8	84	46.7 : I
Duplicate	1.8	84	46.7 : 1
103	5.5	59	10.7 : 1
Duplicate	5,5	58	10.6 : 1
104	2.8	73	26.1:1
Duplicate	2.8	74	26.4 ; 1

Table 4 shows the results of the asbestos content in the samples that were taken. The results of the analysis shows the asbestos samples 102 and 104 contain major amounts of asbestos. Material from sample location 102 was placed in the shaft and material from

sample location 104 (wasterock from Johns Manville) was not removed. This material, if suitable, would have been used for the creek crossings. Confirmation from the MNR in Kirkland Lake stated in the work permit that the crossings could be fiorded. From this no material or culvets were necessary for the crossings.

Table 4 Asbestos Content

Sample	Mineral (by XRD)	Relative Proportion
		of Asbestos
100	quartz	minor
	plagioclase	minor
	chrysotile(asbestos) or kaolinite	possible trace
101	quartz	minor
	plagioclase	minor
	chrysotile(asbestos) or kaolinite	possible trace
102	chrysotile(asbestos) or kaolinite	major
103	quartz	minor
	plagioclase	minor
	chrysotile(asbestos) or kaolinite	minor
104	chrysotile(asbestos) or kaolinite	major

XRD - Xray diffraction

Table 5 summarizes the metal content of the rock samples that were taken.

Table 5 ICP Metal Scan

Element	sample #100	sample #101	sample #102	sample #103	sample #104
Al (g/t)	56000	63000	8900	34000	9100
As (g/t)	<30	<30	<30	<30	<30
Ba (g/t)	130	42	16	142	<5.0
Be (g/t)	<2.0	<2.0	<2.0	<2.0	<2.0
Ca (g/t)	34000	55000	4700	19000	5000
Cd (g/t)	10.1	9.0	5.5	5.9	<5.0
Co (g/t)	65	68	110	74	100
Cr (g/t)	16	12	650	230	610
Cu (g/t)	9.1	37	12	14	9.1
Fe (g/t)	110000	120000	66000	78000	47000
La (g/t)	<30	<30	<20	<30	<1()
Mg (g/t)	18000	28000	200000	97000	210000
Mn (g/t)	1700	1800	730	1200	710
Mo (g/t)	<50	<50	<10	<50	<10
Na (g/t)	25000	22000	1600	41000	690
Ni (g/t)	<5.0	20	2000	853	2200
P (g/t)	3600	3100	210	1800	32
Pb (g/t)	120	120	36	81	31
Sb (g/t)	<40	<4()	<20	<20	<20
Se (g/t)	<50	<50	<5()	<50	<50
Sn (g/t)	<30	<30	<20	<20	<20
Te (g/t)	<50	<40	<10	<30	<10
Y (g/t)	50	51	5.3	45	<5.()
Zn (g/t)	220	180	90	150	56
SO4 (%)	0.10	<0.05	< 0.05	<0.10	0.06

Final Costs

The proposed costs for the completion of the reclamation at Manville/Munro property was estimated at \$42,100. As the preparation of the access road and the replacement of the shaft concrete cap were not required, the final costs were \$28,575.68.

Recommendations

The site should be inspected during the late summer of 1995 to determine if there was any movement of the rock over the shaft.

Yours truly,

LAKEFIELD RESEARCH

ENVIRONMENTAL SERVICES

Jamie L. Quesnel

Senior Technologist

HEADFRAME AREA PRE-RECLAMATION

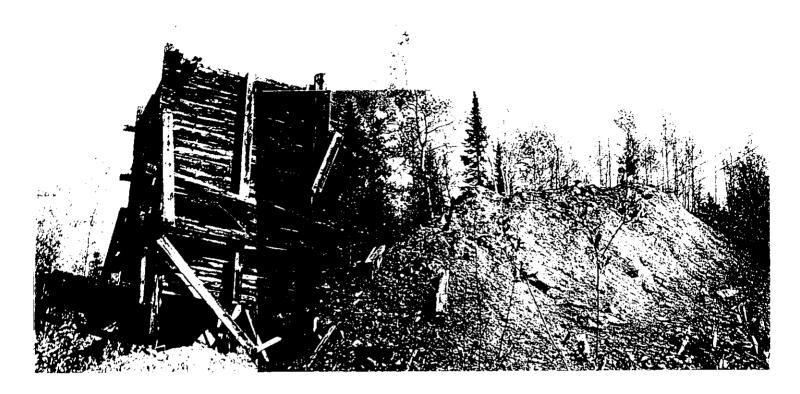


HEADFRAME AREA POST-RECLAMATION



LAKEFIELD RESEARCH
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LOAD OUT BIN & ASBESTOS ORE PILE PRE-RECLAMATION



LOAD OUT BIN & ASBESTOS ORE PILE POST-RECLAMATION



LAKEFIELD RESEARCH
A Division of Falconbridge Limited

Manville - Munro Pictures

COLLAPSED BUILDING PRE-RECLAMATION



COLLAPSED BUILDING POST-RECLAMATION



LAKEFIELD RESEARCH
4 Division of Falconbridge Limited

EQUIPMENT USED FOR RECLAMATION PROJECT





Declaration of Assessment Work Performed on Mining Land

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

Transaction Number (office use) N9880. DO382 Assessment Files Research Imaging



Agent's Address

0241 (03/97)

PO Box 1140, Timmins, Ontario, P4N 7H9

900

if subsection 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, assesment work and correspond with the mining land holder. Questions about this Northern Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury,

- Please type or prin		before recordi n	g a claim, us	se form 0240.	E. 18570
1. Recorded holder(s) (Attach	a list if necessary)				
Name FA	LCONBRIDGE LIM	ITED		Client Number	130679
Address Su	ite 1200 - 95 Welli	ngton Street Wes	st	Telephone Numbe	er (416) 956-5700
То	ronto, Ontario, M5	H 2V4		Fax Number	(416) 956-5757
Name				Client Number	
Address				Telephone Numbe	er .
		<u>-</u>		Fax Number	
2. Type of work performed: Ch		on only ONE of	the following	groups for this	declaration.
Geotechnical: prospecting, s assays and work under secti	on 18 (regs)	trenching	: drilling strip g and associa		X Rehabilitation
Work Type Reclamation Program: filled with waste rock; rock samples			ne; shaft		Office Use
			:	Commodity	
				Total \$ Value of Work Claimed	14 287
Dates Work From 7 12 Performed Day Month	•	2 12 Day Month	94 / Year	NTS Reference	•
Global Positioning System Data (if available)	Township/Area Beatty	y Twp.		Mining Division	Lander Lk
	M or G-Plan Number M-324			Resident Geolog District	kland Lake
- complete a - provide a n	ork permit from the oper notice to surfa and attach a Staten map showing contice copies of your tectors.	ce rights holders nent of Costs, fo quous mining lan	s before start rm 0212;	ing work;	ng work;
3. Person or companies who p	repared the techi	nical report (At	tach a list if n	ecessary)	
Name Robert Foy				Telephone Numbe	er 705) 267 - 1188 ext. 243
Address PO Box 1140, Timmins, C	Ontario, P4N 7H9	RECE	-IVIE -	Fax Number (705) 267 - 6080
Name				Telephone Numbe	er
Address		SECO-10:13	8 1998	Fax Number	
Name		GEOSCIENCE A	SSESSMEN CF	elephone Numbe	er
Address				Fax Number	
4. Certification by Recorded H I, Robert Foy this Declaration of Assessment Wo completion and, to the best of my k	, do h ork having caused knowledge, the and	the work to be p	erformed or v		
Signature of Recorded Holder or Ager	" ロス・ 」	94			Date JUN€ 16/98

Telephone Number

(705) 267 - 1188 ext. 243

Fax Number

<u>(705)</u> <u>267</u> - 6080

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. Mining Claim Number. Or if **Number of Claim** Value of Value of work Value of work Bank. Value of work work was done on other eligible Units. For other performed on this applied to this assigned to other to be distributed mining land, show in this mining land, list claim or other claim. mining claims. at a future date column the location number hectares. mining land. indicated on the claim map. TB 7827 16 ha eg \$26,825 N/A \$24,000 \$2,825 1234567 12 eg \$24,000 0 eg 1234568 2 \$ 8,892 \$ 4,000 0 \$4,892 18000197 L. 25634 1 \$14,287.84 0 \$4,000 \$10,287.84 2 L 1190353 1 0 \$2,000 0 0 3 L 1190354 1 0 \$2.000 0 0 4 5 6 7 8 9 10 11 12 13 14 15 Column Totals 3 \$14,287.84 \$4,000 \$4,000 \$10,287.84 , do hereby certify that the above work credits are eligible under I, Robert Foy (Print Full Name) 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 of ent Authorized in Writing 16/98 JUNE Instruction 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) 0241 (03/97)



Statement of Costs for Assessment Credit

Transaction Number (office use)

I am authorized to make this certification.

JUNE 16/98

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.

Reclamation Work Demolition and burning of wooden \$328,575,68	Work Type	Units of work Depending on the type of work, list the number of hours/day worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
Shaft's concrete cap & wooden bullshead removed; Shaft filled with waste rock; Waste rock left on surface was contoured; 4 rock samples analysed for asbestos contamination Associated Costs (e.g. supplies, mobilization and demobilization). Transportation Costs Food and Lodging Costs Food and Lodging Costs Total Value of Assessment Work S14,287.84 Total Value of Assessment Work Calculations of Filling Discounts: 1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work. 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 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. S28,575.68 x 50.50 - \$144,287.84 TOTAL VALUE OF ASSESSMENT WORK Note: 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 is not made, the Minister may reject all or part of the assessment work submitted. Certification verifying costs: 1. Robert Foy	Reclamation Work			\$28,575.68
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Value of Assessment Work. If this situation applies to your claims, use the calculation below: \$28,575.68	2. If work is filed after two years and u	p to five years after performance, it can only	oe claimed at 50% of the Tot	al
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 or part of the assessment work submitted. Certification verifying costs: I, Robert Foy, do hereby certify, that the amounts shown are as accurate as may reasonably	Value of Assessment Work. If this s	situation applies to your claims, use the calcul	ation below:	- -
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 is not made, the Minister may reject all or part of the assessment work submitted. Certification verifying costs: I, Robert Foy , do hereby certify, that the amounts shown are as accurate as may reasonably	TOTAL VALUE OF ASSESSMENT WO		Total & value of	لد مدندا و اسما
 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. Certification verifying costs: Robert Foy do hereby certify, that the amounts shown are as accurate as may reasonably 	TOTAL VALUE OF ADDEDGMENT WE	X 0.50 -	Total \$ value of w	orked claimed.
- 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 is not made, the or part of the assessment work submitted. Certification verifying costs: I, Robert Foy , do hereby certify, that the amounts shown are as accurate as may reasonably				
verification and/or correction/clarification. If verification and/or correction/clarification is not made, the or part of the assessment work submitted. Certification verifying costs: I, Robert Foy, do hereby certify, that the amounts shown are as accurate as may reasonably				
Certification verifying costs: I, Robert Foy , do hereby certify, that the amounts shown are as accurate as may reasonably	verification and/or correction/clarification	to verify expenditures claimed in this statements. If verification and/or correction/clarification		
i, Robert Foy , do hereby certify, that the amounts shown are as accurate as may reasonably			no not made, the Willist	er may reject all
i, Robert Foy , do hereby certify, that the amounts shown are as accurate as may reasonably				
I, Robert Foy , do hereby certify, that the amounts shown are as accurate as may reasonably	Certification verifying costs:			
		, do hereby certify, that the amounts sh	nown are as accurate as may	reasonably

be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying

Signature

Agent (Project Geologist, Falconbridge Limited)

George police agent, of train por pany position with signing authority)

Declaration of Work form as _

Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines

September 23, 1998

FALCONBRIDGE LIMITED SUITE 1200, 95 WELLINGTON STREET WEST TORONTO, ONTARIO M5J-2V4



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

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

Visit our website at: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

Submission Number: 2.18579

Status

Subject: Transaction Number(s):

W9880.00382 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. 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 Lucille Jerome by e-mail at jeromel2@epo.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,

ORIGINAL SIGNED BY

Blair Kite

Supervisor, Geoscience Assessment Office

Mining Lands Section

Work Report Assessment Results

Submission Number:

2.18579

Date Correspondence Sent: September 23, 1998

Assessor: Lucille Jerome

Transaction Number

First Claim

Number Township(s) / Area(s)

Status

Approval Date

W9880.00382

8000197

BEATTY

Deemed Approval

September 16, 1998

Section:

19 Rehabilitation OREHAB

Correspondence to:

Resident Geologist

Kirkland Lake, ON

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

Robert Foy

TIMMINS, ONTARIO, CANADA

Assessment Files Library

Sudbury, ON

FALCONBRIDGE LIMITED

TORONTO, ONTARIO

THE MAR UNIT PORESTER FOR THIS AREA CAN BE

THIS TOWNSHIP / AREA FALLS WITHIN THE WATABEAG MANAGEMENT UNIT, AND MAY BE SUBJECT TO FOREIGTRY OPERATIONS.

CONTACTED AT: PO BOX 129 SWASTIKA, ONT.

> POK ITO 705-642-3222

MINING RIGHTS WITHDRAWROM STAKING, PROSPECTING, SALE OR LEASE, SECTION 35, THE MINING ACT, RSO 1990 W-L-22/96 NER

> THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES. AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MIN-ING CLAIMS SHOULD CON-SULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOP MENT AND MINES, FOR AD-DITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

LEGEND

	* -
LEASED FOR MINING RIGHTS ONLY PATENTED LAND	© or ●⁺
PATENTED FOR SURFACE RIGHTS ONLY	. •
LEASE	🛎 🐭 🕟
LICENSE OF OCCUPATION	L. 0 .
CROWN LAND SALE	C.S.
LOCATED LAND	Loc.
CANCELLED	C.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
HIGHWAY & ROUTE No.	
ROADS	
TRAILS	
F _\VAYS	
POWER LIM	
MARSH OR MUSKEG	*
MINES	X '

+used only with summer resort .ocations or when space is limited.

~ TOWNSHIP OF

DISTRICT OFJUL 1 5 1998
COCHRANE
BEOSCIENCE ASSESSMENT
OFFICE

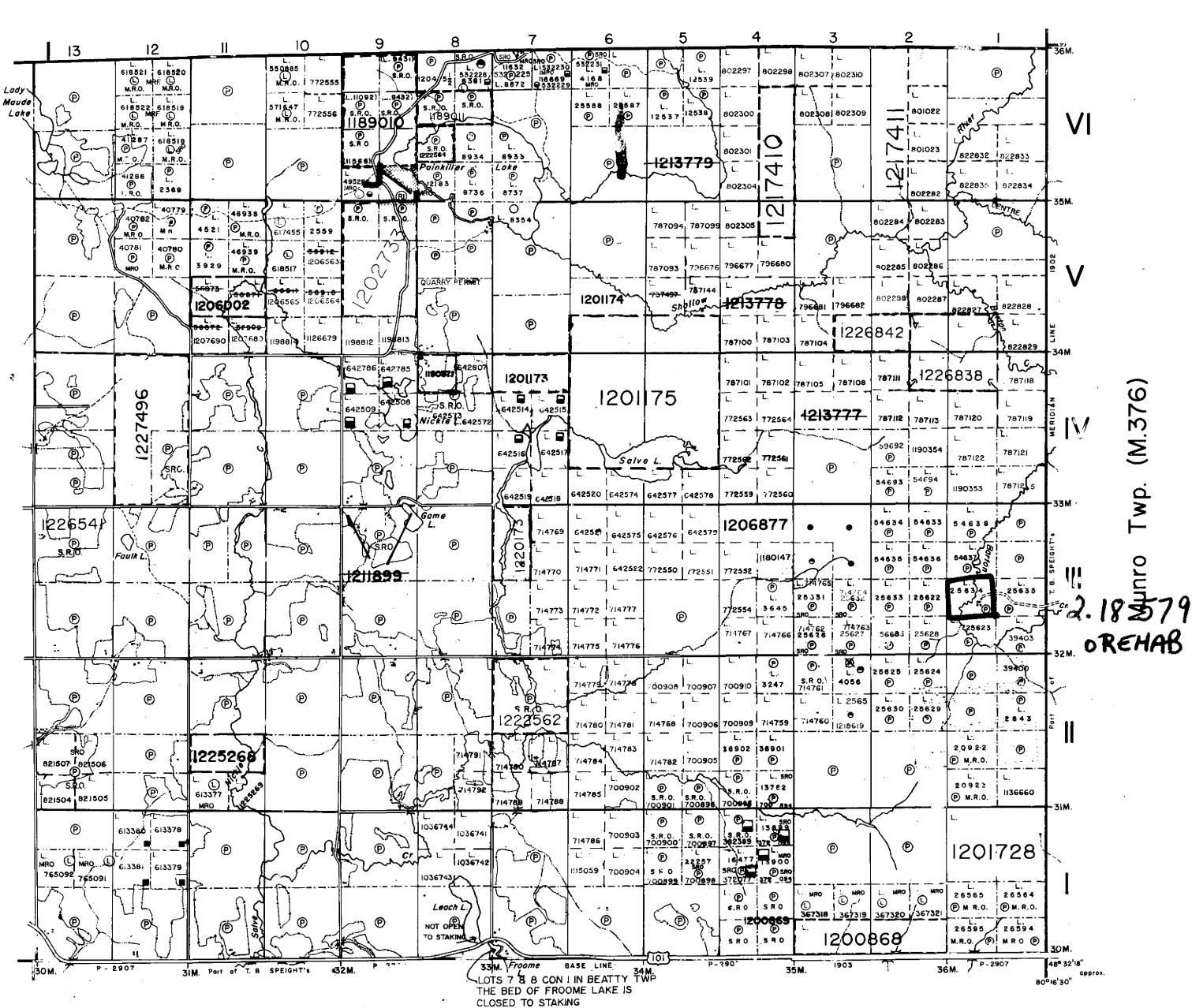
LARDER LAKE MINING DIVISION

SCALE: | INCH = 40 CHAINS (1/2 MILE)

DATE Oct./71

PLAN No. M. 324

ONTARIO DEPARTMENT OF MINES AND NORTHERN AFFAIRS



Hislop Twp. (M.355)

Coulson Twp. (M.340)

42A09SW2002 2.18579 BEATTY

(M.335)

Twp.

Carr

ARCHIVED JANUARY 25, 1994 ARCHIVED ON JUNE 01/95 ARCHIVED APRIL 23/97.

CIRCULATED NOVEMBER 29 1994 ML