

Assessment (1)



01105NW0004 2.13108 SPRINGER

010

Concentrated Rare Earth Minerals Ltd.  
Rare Earth Prospect  
1989 Surface Sampling Program  
Springer Township  
Sudbury Mining Division  
Ontario

Date: December 15, 1989.

H. Grant Harper, P.Eng.  
Economic Geologist.

Volume Label: CKREMEng  
Disk No.: 42-3  
Filename: B:\Tiltpg\SpringRE89

Concentrated Rare Earth Minerals Ltd.  
Springer Rare Earth Prospect  
Springer Township  
Sudbury Mining Division  
Ontario

### Introduction

The Location, Access, General Geology, and Exploration History of the property have been fully described in earlier Reports. All of these Reports are on file with the Ministry in the Assessment Files Record Office. It would be redundant to repeat this vital information here.

A tremendous amount of research is now being undertaken by physicists in the field of super-conductivity, a group of phenomena which, when fully controlled, will revolutionize human existence to a greater extent than the industrial revolution. Certain of the Rare Earth group of elements appear to be essential to the creation of superconductive media and therefore there is a growing interest in the distribution and amounts of Rare Earths in the accessible crustal rocks and in the development and mining of Rare Earth ore reserves.

Springer Township is known to contain occurrences of Rare Earths, and since Rare Earths are frequently associated with thorium and to a lesser extent uranium, it was decided to begin a sampling program to evaluate the Rare Earth elements known to occur in the area although the known Rare Earth occurrences are predominantly the "light" Rare Earths and Yttrium is not as commonly associated with this 'division' of the Rare Earth elements.

At the present time the markets for Rare Earths are exceedingly limited. Yttrium is in the greatest demand for use in colour video screens. Europium is also used in this connection. The market for Yttrium amounts to some 500 tons per year at a price of about US\$52.50 per pound. Gadolinium is used as a highly efficient heat sink. Apparently it has the potential of eliminating the need for compressors in all refrigeration and air conditioning units. It is anticipated that the market for Gadolinium will double many times in the next 10 years. In their first quarter 1987 Report to Shareholders General Motors announced the opening of a new plant in Michigan to manufacture a new style of starter motor for cars and trucks. The starters will use magnets which contain Yttrium. Even more recently, General Motors has announced that their scientists are using Praseodymium and Neodymium in their research into super-conductivity.

A preliminary grab sampling program was carried out on the surface outcroppings of the Springer Township property where Radiometric Surveys had indicated increased radioactivity. The geophysical surveys and geological mapping of the property indicated that the more favourable section of the property lay in the northwest section.

Nine grab samples were collected from the six different locations (radioactive anomalies) on the property and submitted to X-Ray Assay Laboratories for analysis. Their Certificate of Analysis is attached to this report. The sample locations are plotted on the accompanying map of the property. For each sample, its number, location and description are listed in the following table. Assays for each Rare Earth element, uranium, thorium and Yttrium are listed in the accompa-

nying Assay Report by X-Ray Assay Laboratories.

Sample#	Location	Rad	Remarks
4106	#3 127480W 2400N	Minor	Reddish Br. Med. gr. syen. 10% Amphibole
4107	#7 127480W 33425N	Nil	Whitish Syen Gn. micaceous
4108	#1 132W 3800N	Slt.	Syen. med f gr. neg dk min
4109	#2 136-30W 29460N	Low	Syen Gn - almost banded - 10% dark mineral
4110	#5-1 140W 100S Bl "B"	Low	Monty's Hot Spot, Cse syen weathers brown
4111	#5-2 see map	Low	Cse Syen, mineralized (?)
4112	#5-3 Bl "B"	Slt	Syen, fractured at 1/4" intervals, micaceous
4113	#4 132W 17440N	Nil	Well banded syen. Amphibole
4114	#4 132W 20N	Nil	Syen. 14% mica, med gr

#### Discussion of Results

In the general area the Rare Earth elements are associated with carbonate veins. In the subject property no carbonate veinlets were seen in any of the outcrops which responded positively to the Radiometric Survey although geological mapping had suggested that the amount of carbonate present in the rocks rose to the northwest, an area adjacent to known Rare Earth carrying carbonate veinlets.

The Yttrium content (the main element sought) of the samples is quite low; too low to arouse any economic interest. The uranium content is virtually nil, while the thorium content is also quite low. The amounts of Lanthanum and Cerium reported are modest but very high relative to the other Rare Earths. This suggests that the Rare Earths present are predominantly the "light" Rare Earths, the sub-group with which very little Yttrium is associated.

#### Conclusions and Recommendations

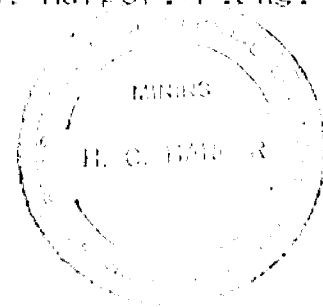
1. A preliminary surface sampling program of areas of above normal radioactivity has been completed. The areas of above normal radioactivity are known to be exceptionally high in thorium relative to their negligible uranium content.
2. The Preliminary sampling program not located any area of significant amounts of Yttrium and/or Rare Earths and further exploration for these metals on this property is not recommended.

This report is respectfully submitted.

Toronto, Ontario.  
December 15, 1989.

Volume Label: CREMing  
Disk No.: 42-3  
Filename: B:\Yreport\Spring89

*H.G. Harper*  
H.G. Harper, P.Eng.



63.10583

RAL

# X-RAY ASSAY LABORATORIES

A DIVISION OF SGS SUPERVISION SERVICES INC.

1855 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • CANADA  
TEL: (416)445-5755 TELEX: 06-986947 FAX: (416)445-4152

## CERTIFICATE OF ANALYSIS

REPORT 9466

TO: CONCENTRATED RARE EARTH MINERALS LTD  
ATTN: GRANT HARPER  
BOX 2038  
20 EGLINTON AVENUE WEST, SUITE 404  
TORONTO, ONTARIO M4R 1K8

CUSTOMER No. 1680

DATE SUBMITTED  
4-Aug-89

REF. FILE 5370-16

Total Pages 2

9 ROCKS

	METHOD	DETECTION LIMIT
Y PPM	ICPMS	1.
LA PPM	ICPMS	0.1
CE PPM	ICPMS	0.3
FR PPM	ICPMS	0.3
ND PPM	ICPMS	0.3
SM PPM	ICPMS	0.3
EU PPM	ICPMS	0.05
GD PPM	ICPMS	0.3
TB PPM	ICPMS	0.3
DY PPM	ICPMS	0.3
HO PPM	ICPMS	0.05
ER PPM	ICPMS	0.3
TM PPM	ICPMS	0.3
YB PPM	ICPMS	0.3
LU PPM	ICPMS	0.05
TH PPM	ICPMS	1.
U PPM	ICPMS	1.

RECEIVED SEP 15 1989

DATE 12-SEP-89

CERTIFIED BY *J. H. Opdebeeck*  
Jean H.L. Opdebeeck, Vice President Operations



SAMPLE	Y PPM	LA PPM	CE PPM	PR PPM	ND PPM	SM PPM	EU PPM	GU PPM	TB PPM
4106	9	6.2	34.3	1.6	5.3	1.4	0.29	1.2	0.2
4107	33	78.0	162.	16.9	58.4	9.8	2.65	8.3	1.2
4108	2	7.9	16.6	1.1	3.4	0.9	0.35	0.8	<0.1
4109	18	41.4	103.	9.4	30.4	4.9	1.20	4.1	0.6
4110	19	81.7	295.	25.7	109.	19.8	4.88	8.9	1.1
4111	24	63.2	270.	18.5	76.3	15.4	4.39	8.2	1.0
4112	39	185.	440.	51.7	210.	43.7	11.7	21.4	2.2
4113	29	48.1	124.	12.1	45.6	9.5	2.43	8.1	1.1
4114	12	7.4	20.8	2.4	10.2	2.7	0.86	2.1	0.3

SAMPLE	DY PPM	HO PPM	ER PPM	1M PPM	YB PPM	LU PPM	TH PPM	U PPM
4106	1.3	0.27	1.2	0.2	1.6	0.24	9	2
4107	6.5	1.18	3.6	0.5	2.6	0.35	15	3
4108	0.4	0.05	0.3	<0.1	0.1	<0.05	19	<1
4109	3.2	0.58	1.8	0.3	1.5	0.22	10	1
4110	5.0	0.81	2.2	0.3	1.7	0.22	26	<1
4111	4.9	0.88	2.6	0.4	2.1	0.30	27	<1
4112	9.1	1.44	3.6	0.5	2.6	0.36	26	<1
4113	5.8	1.10	3.1	0.4	2.6	0.36	9	<1
4114	1.9	0.37	1.2	0.2	1.1	0.17	4	1





X-RAY ASSAY LABORATORIES DB SEP 89

CONCENTRATED RARE EARTHS (CR1 5570) CHONDRITE NORMALIZED VALUES

SAMPLE	LA	CE	PR	ND	SM	EU	GD	TB	DY	HO	ER	TM	YB	LU
4106	19.7	42.2	16.0	8.9	7.3	4.0	4.6	4.1	4.0	3.8	5.6	6.2	7.7	7.4
4107	247.6	199.3	169.0	97.8	51.0	36.7	32.0	24.5	20.0	16.4	16.9	15.6	12.4	10.8
4108	25.1	20.4	11.0	5.7	4.7	4.6	3.1	1.0	1.2	0.7	1.4	1.6	0.5	0.8
4109	131.4	126.7	94.0	50.9	25.5	16.6	15.8	12.2	9.8	8.1	8.5	9.4	7.2	6.8
4110	259.4	382.9	257.0	182.6	103.1	67.6	34.4	22.4	15.4	11.3	10.3	9.4	8.1	6.8
4111	200.6	332.1	185.0	122.8	80.2	60.8	31.7	20.4	15.1	12.2	12.2	12.5	10.0	9.3
4112	587.3	541.2	517.0	351.8	227.6	162.0	82.6	44.9	28.0	20.0	16.9	15.6	12.4	11.1
4113	152.7	152.5	121.0	76.4	49.5	33.7	31.3	22.4	17.8	15.3	14.6	12.5	12.4	11.1
4114	23.5	25.6	24.0	17.1	14.1	11.9	8.1	6.1	5.8	5.1	5.6	6.2	5.3	5.3

CHONDRITE RARE EARTH ELEMENT FACTORS USED TO NORMALIZE THE SAMPLE DATA:

CE	.873	PR	.100	ND	.597	SM	.192	EU	.0722	GD	.259		
TB	.049	DY	.325	HO	.072	ER	.213	TM	.032	YB	.209	LU	.0323

Harper Growth Services Inc.

Box 2038, Suite 404  
20 Eglinton Avenue West  
Toronto, Ontario  
M4H 1K6

DATE: Aug 17, 1989

IN ACCOUNT WITH: CIBC - Royal Bank - Montreal, Ltd.

ACCT#

Management Fees  
2.5 hrs

500.00

100

Outside projects

Beer's work

97.00

700.00

197

00

3 hrs

100.00

Springer Research

Services

Sample & Report

OBMP

supp & anal. expense

710.25

600.00

910

75

2 disc 8/17

100

Harper Growth Services Inc.  
Aug 18, 1989  
#168  
WILEY

APPROVED BY:

TOTAL

1207

75

STATEMENT

I. MAR WEBER.  
14 WITHIN ACRES AVE.  
SEARBOURGH. ONT.

Aug. 7. 89.

CONCENTRATED LAMP LAMP MINERALS LTD.  
P.O. Box 2088. Suite #404  
20 EGLINTON AVE. WEST.  
TORONTO, ONTARIO.  
M4K 1K8

RE: SAMPLING ON SPRINGER TWP CLAIMS,  
SUDBURY AREA, ONTARIO.

13 DAYS AT \$ 125.00 PER DAY \$ 250.00

(PAID)

Aug 18. 89  
11/16/89

600.32

367  
600.32

*[Signature]*

RECEIVED 135 14 1989

*Thyia Lassalle, S.A. Inc.*

Box 2038, Suite 404  
20 Eglinton Avenue West  
Toronto, Ontario  
M4R 1K8

DATE: *Dec 18 197*

IN ACCOUNT WITH: *Case P.L. Minerals Ltd*

ACCT#

*Expenses by ...  
to ... R.L. Sample Dept*

*1.50*

*[O.M.I.P.]*

*Jan 21 89  
# 201  
WILLIAMS*

APPROVED BY:

TOTAL



# X-RAY ASSAY LABORATORIES

A DIVISION OF SGS SUPERVISION SERVICES INC.

100 WILSON STREET • TORONTO, ONTARIO M9W 3L4 • CANADA  
TEL: (416) 445-5755 • TELE X: 06 989957 • FAX: (416) 445-4152

CONCENTRATED RARE EARTH MINERALS LTD  
ATTN: GRANT HARPER  
BOX 2038  
20 EGLINTON AVENUE WEST, SUITE 404  
TORONTO, ONTARIO M4R 1K8

CUSTOMER NO. 1680

CONCENTRATED RARE EARTH MINERALS LTD  
ATTN: GRANT HARPER  
BOX 2038  
20 EGLINTON AVENUE WEST, SUITE 404  
TORONTO, ONTARIO M4R 1K8

INVOICE NO.	INVOICE DATE	WORK ORDER NO.	DATE SUBMITTED
10440	08-Dec-89	6067	13-Oct-89

TERMS

TERMS NET 30 DAYS  
1.5% PER MONTH INTEREST ON ACCOUNT OVER 30 DAYS

ROCK

TORONTO

QTY	UNIT	DESCRIPTION	WEIGHT	UNIT PRICE	AMOUNT
11		RARE EARTHS, TH, U & Y BY ICP/MS	11,12, 0, 0, 0, 0	85.00	935.00
11		ROCK, CRUSHING & MILLING (CHROME STEEL MILL)	99, 1, 0, 0, 0, 0	3.75	41.25

*(3641)²*

*Dec 11 1989  
#266  
11-26-89*

SUB-TOTAL \$ 976.25

MISS CHARGES

**TOTAL IN**

CDN FUNDS \$ 976.25

ORIGINAL INVOICE

Super (C.A. Hig. Serv. Inc.)

Box 2036, Suite 404  
20 Eglinton Avenue West  
Toronto, Ontario  
M4E 1K8

DATE: Jan 4 1990

IN ACCOUNT WITH: C.A. Hig. Serv. Inc.

ACCT #

Springer Pipe - 201141  
Plastic Pipe

To West Pipe in Res. Cont. Sample  
at time of Assessment work

9 50

300

JOHN

DATE: 1/4/90  
# 2011

APPROVED BY:

TOTAL

309

50

CONCENTRATED RARE EARTH MINERALS LTD.

BOX 2038, STE. 404,  
20 EGLINTON AVE. W.,  
TORONTO, ONTARIO M4E 1K8

0168

August 18th 1989

PAY TO THE  
ORDER OF

HARPER CONSULTING SERVICES INC.

\$ 1,207.25

SUM OF \* \* \* TWELVE HUNDRED AND SEVEN \* \* \* \* \* 25 /100 DOLLARS

CONCENTRATED RARE EARTH MINERALS LTD.



Canadian Imperial Bank of Commerce  
MAIN BRANCH COMMERCE COURT  
TORONTO, ONTARIO M5E 1G9

PER

PER

*H. G. Hooper*  
*Darryl [Signature]*

⑈000168⑈ ⑆00002⑈0100⑆ 32⑈23612⑈

⑈0000120725⑈

CONCENTRATED RARE EARTH MINERALS LTD.

BOX 2038, STE. 404,  
20 EGLINTON AVE. W.,  
TORONTO, ONTARIO M4E 1K8

0169

August 18th 1989

PAY TO THE  
ORDER OF

ELMAR WEBER

\$ 617.07

SUM OF \* \* \* \* \* SIX HUNDRED AND SEVENTEEN \* \* \* \* \* 07 /100 DOLLARS

CONCENTRATED RARE EARTH MINERALS LTD.



Canadian Imperial Bank of Commerce  
MAIN BRANCH COMMERCE COURT  
TORONTO, ONTARIO M5E 1G9

PER

PER

*H. G. Hooper*  
*Darryl [Signature]*

⑈000169⑈ ⑆00002⑈0100⑆ 32⑈23612⑈

⑈0000061707⑈

CONCENTRATED RARE EARTH MINERALS LTD.

BOX 2038, STE. 404,  
20 EGLINTON AVE. W.,  
TORONTO, ONTARIO M4E 1K8

0201

December 21st 1989

PAY TO THE  
ORDER OF

HARPER CONSULTING SERVICES INC.

\$ 250.00

SUM OF \* \* \* \* \* TWO HUNDRED AND FIFTY \* \* \* \* \* /100 DOLLARS

CONCENTRATED RARE EARTH MINERALS LTD.



Canadian Imperial Bank of Commerce  
MAIN BRANCH COMMERCE COURT  
TORONTO, ONTARIO M5E 1G9

PER

PER

*H. G. Hooper*  
*Darryl [Signature]*

⑈0001201⑈ ⑆00002⑈0100⑆ 32⑈23612⑈

⑈000000250000⑈

CONCENTRATED RARE EARTH MINERALS LTD.  
BOX 2038, STE. 404,  
20 EGLINTON AVE. W.,  
TORONTO, ONTARIO M4R 1K8

0206

December 21st 1989

PAY TO THE ORDER OF X-RAY ASSAY LABORATORIES

\$ 976.25

SUM OF \* \* NINE HUNDRED AND SEVENTY SIX \* \* \* \* \* 25 /100 DOLLARS  
CONCENTRATED RARE EARTH MINERALS LTD.



Canadian Imperial Bank of Commerce  
MAIN BRANCH COMMERCIAL COURT  
TORONTO, ONTARIO M5E 1G9

PER

PER

*W. A. Harper*  
*Dorey D. Hill*

⑈000000200100⑈ 3200236120⑈

⑈00000097625⑈

CONCENTRATED RARE EARTH MINERALS LTD.  
BOX 2038, STE. 404,  
20 EGLINTON AVE. W.,  
TORONTO, ONTARIO M4R 1K8

0209

January 5th 1990

PAY TO THE ORDER OF HARPER CONSULTING SERVICES INC.

\$ 309.50

SUM OF \* \* \* \* \* THREE HUNDRED AND NINE \* \* \* \* \* 50 /100 DOLLARS  
CONCENTRATED RARE EARTH MINERALS LTD.



Canadian Imperial Bank of Commerce  
MAIN BRANCH COMMERCIAL COURT  
TORONTO, ONTARIO M5E 1G9

PER

PER

*W. A. Harper*  
*Dorey D. Hill*

⑈000000200100⑈ 3200236120⑈

⑈00000030950⑈



Wm. W. Phelps  
to  
Miss Mary Ann Phelps

By	To	Amount	Balance
Wm. W. Phelps	Miss Mary Ann Phelps	100.00	100.00
Wm. W. Phelps	Miss Mary Ann Phelps	50.00	50.00
Wm. W. Phelps	Miss Mary Ann Phelps	25.00	25.00
Wm. W. Phelps	Miss Mary Ann Phelps	12.50	12.50
Wm. W. Phelps	Miss Mary Ann Phelps	6.25	6.25

SEBURY  
RECEIVED  
FEB 20 1839  
BY



Ontario

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

May 10, 1990

Mining Recorder  
Ministry of Northern Development & Mines  
200 Braid Street, 6th Floor West Tower  
Sudbury, Ontario  
P3A 5W2

Dear Sir:

Re: Data for Expenditure submitted under Section 77(19) of the Mining  
Act, R.S.O. 1980 on Mining Claims S 973280 et al in the  
Township of Springer.

The enclosed statement of assessment work credits for Assaying has been  
approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate  
on your records.

Yours sincerely,

W. R. Cowan  
Provincial Manager, Mining Lands  
Mines & Minerals Division

*AS*  
L:zu

Encl:

cc: Mr. G.B. Ferguson  
Mining & Lands Commissioner  
Toronto, Ontario



311 65NKE204 2.13108 SPRINGER

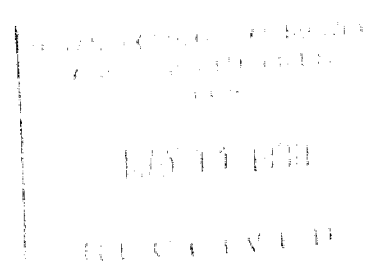
5100

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

Tel: (416) 965-4888

Your File: W9007.034

Our File: 2.13108



Resident Geologist  
Sudbury, Ontario

Concentrated Rare Earth Minerals Ltd  
Toronto, Ontario

Attention: H.G. Harper



Date  
May 10, 1990

Mining Recorder's Report of  
Work No.  
W9007.034

Recorder's Office

CONCENTRATED RARE EARTH MINERALS LTD.

Township or Area

SPRINGER TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic, days	\$2446.00 spent on overburden drilling and assaying samples taken from mining claims.
Magnetometer, days	
Radiometric, days	S 973280 to 283 incl.
Induced polarization, days	
Other, days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological, days	
Geochemical, days	
Mar Days [ ]                      Airborne [ ]	
Special provision [ ]              Ground [ ]	
[ ] Credits have been reduced because of partial coverage of claims	163.1 Days credit allowed which may be grouped in accordance with Section 76(6) of the Mining Act R.S.O. 1980.
[ ] Credits have been reduced because of corrections to work dates and figures of applicant	

Note: No credits have been given for truck rental fees as per conversation on May 01, 1990

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

No credits have been allowed for the following mining claims

- [ ] not sufficiently covered by the survey
- [ ] insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.

DOCUMENT No.  
W9007-034

Instructions  
- Please type or print.  
- Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection.  
- Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

**Mining Act** Report of Work **213108**  
(Expenditures, Subsection 77(19))

Type of Work Performed: *Sampling* Mining Division: *Sudbury* Township or Area: *Springer Twp.*  
Recorded Holder: *Consolidated Ron Kovich Minerals Ltd.* Prospector's Licence No.: *74923*  
Address: *Box 2038 Suite 409 20 Eglinton Ave, West Toronto* Telephone No.: *488 2840*  
Work Performed By: *H.G. Harper*  
Name and Address of Author (of Submission): *H.G. Harper P. Eng. address as above.*  
Date When Work was Performed: From: *1 02 89* To: *30 12 89*  
Day | Mo | Yr | Day | Mo | Yr.

All the work was performed on Mining Claim(s) Indicate no. of days returned on each claim. *See Note No. 1 on reverse side				Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
				<i>5973282</i>	<i>51</i>	<i>5973281</i>	<i>51</i>	<i>5973282</i>	<i>51</i>	<i>5973283</i>	<i>51</i>	<i>5973283</i>	<i>51</i>
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days

Instructions: Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).

Calculation of Expenditure Days Credits: Total Expenditures: *\$ 3063.00* : [ *15* ] = [ *204.2* ]

Total Number of Mining Claims Covered by this Report of Work: [ *4* ]

Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information

Prefix	Mining Claim Number	Expend Days Cr.	Prefix	Mining Claim Number	Expend Days Cr.	Prefix	Mining Claim Number	Expend Days Cr.	Prefix	Mining Claim Number	Expend Days Cr.
<i>S</i>	<i>973280</i>	<i>51</i>	<i>S</i>								
<i>S</i>	<i>973281</i>	<i>51</i>									
<i>S</i>	<i>973282</i>	<i>51</i>									
<i>S</i>	<i>973283</i>	<i>51</i>									

Total Number of Days Performed: *204.2* Total Number of Days Claimed: *204* Total Number of Days to be Claimed at a Future Date: \_\_\_\_\_

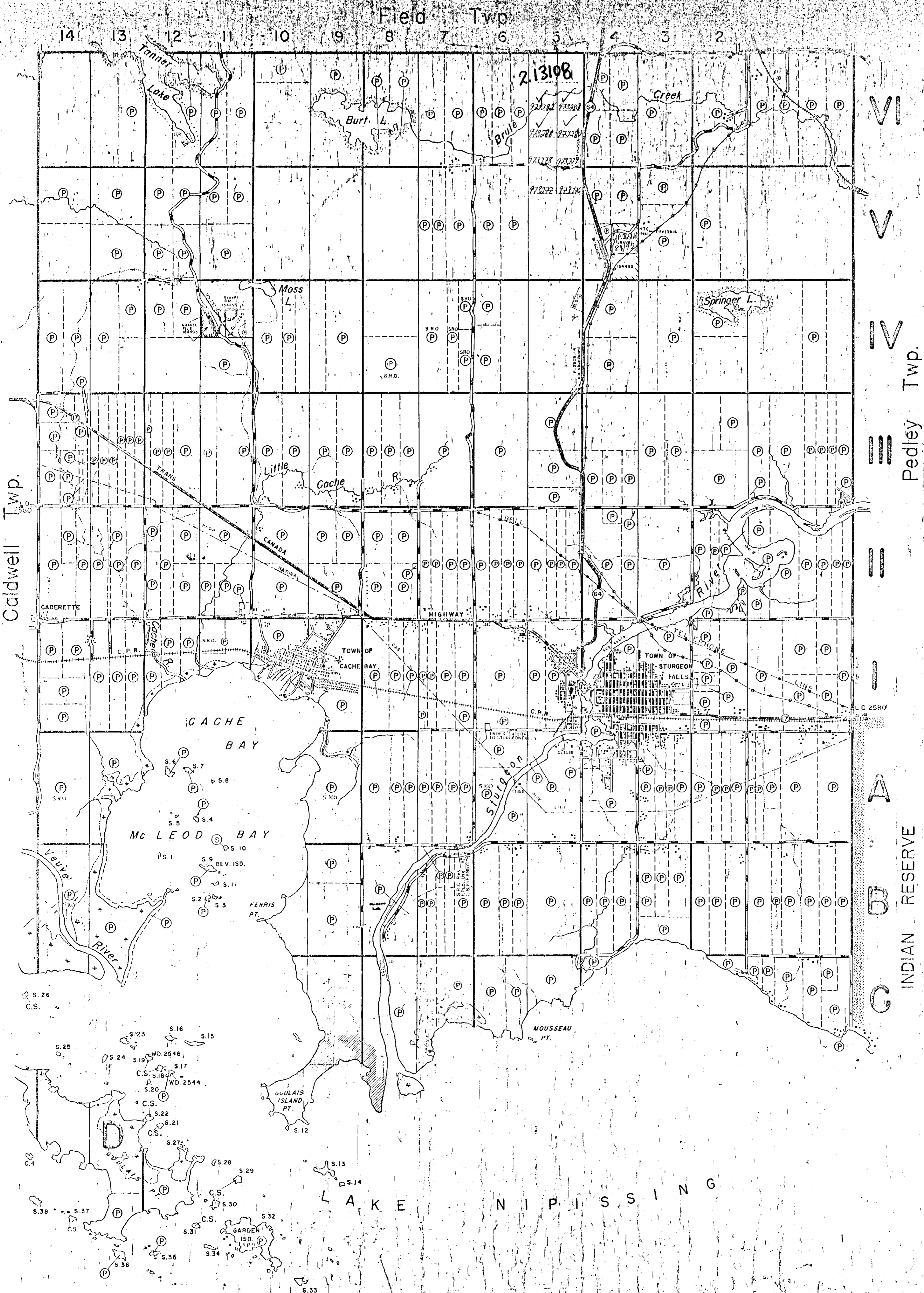
Certification of Beneficial Interest \*See Note No. 2 on reverse side  
I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder. Date: *Dec 30 189* Recorded Holder or Agent (Signature): *H.G. Harper P. Eng.*

Certification Verifying Report of Work  
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.  
Name and Address of Person Certifying: *H.G. Harper P. Eng. address as above.* Telephone No.: *488 2840* Date: *Dec 30 189* Certified By (Signature): *H.G. Harper P. Eng.*

For Office Use Only

Total Days Cr. Recorded: <i>204</i>	Date Recorded: <i>February 13, 1990</i>	Mining Recorder: <i>[Signature]</i>
Date Approved as Recorded: <i>[Signature]</i>	Provincial Manager, Mining Lands: <i>[Signature]</i>	

RECEIVED FEB 14 1990 P.M. 7:18 1911011121121314316



SPRINGER  
 DISTRICT OF NIPISSING  
 SUDBURY  
 MINING DIVISION  
 SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
ROADS	(---)
IMPROVED ROADS	(=)
R.R.'S HIGHWAY	(---)
RAILWAYS	(---)
POWER LINES	(---)
MARSH OR MUSKEG	(---)

NOTES

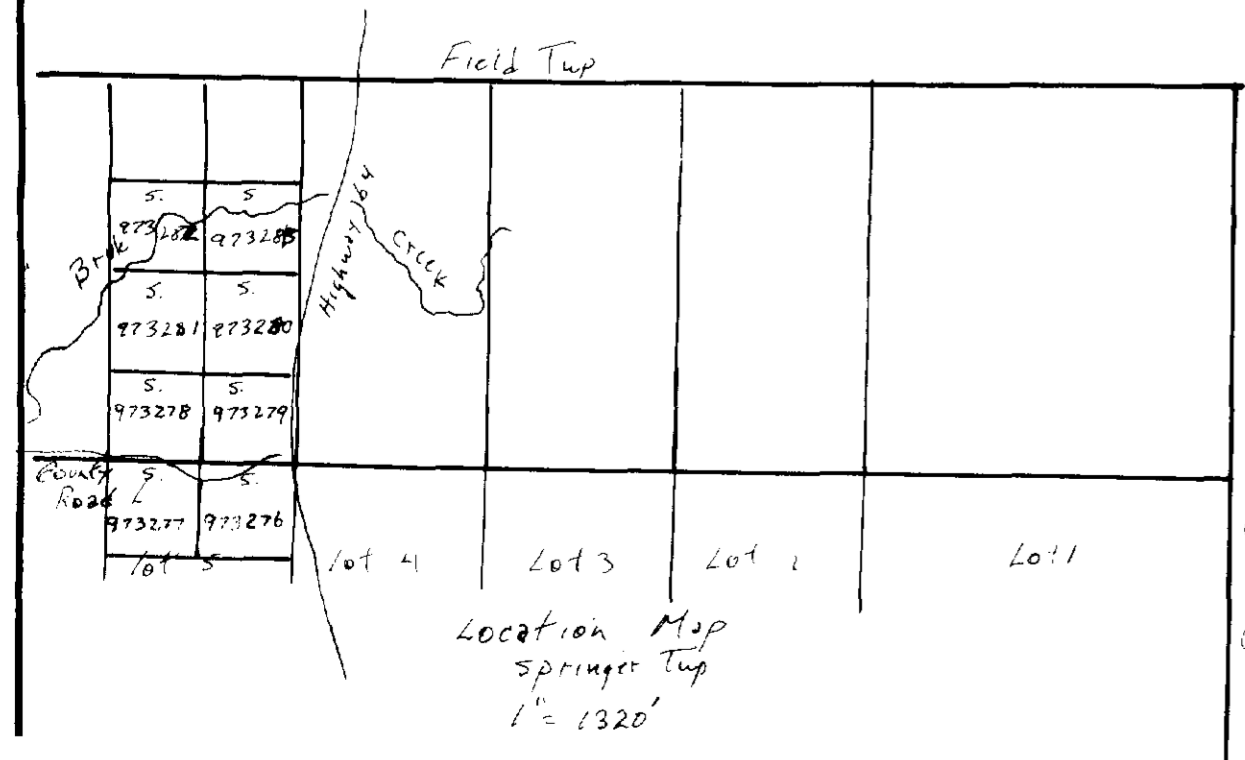
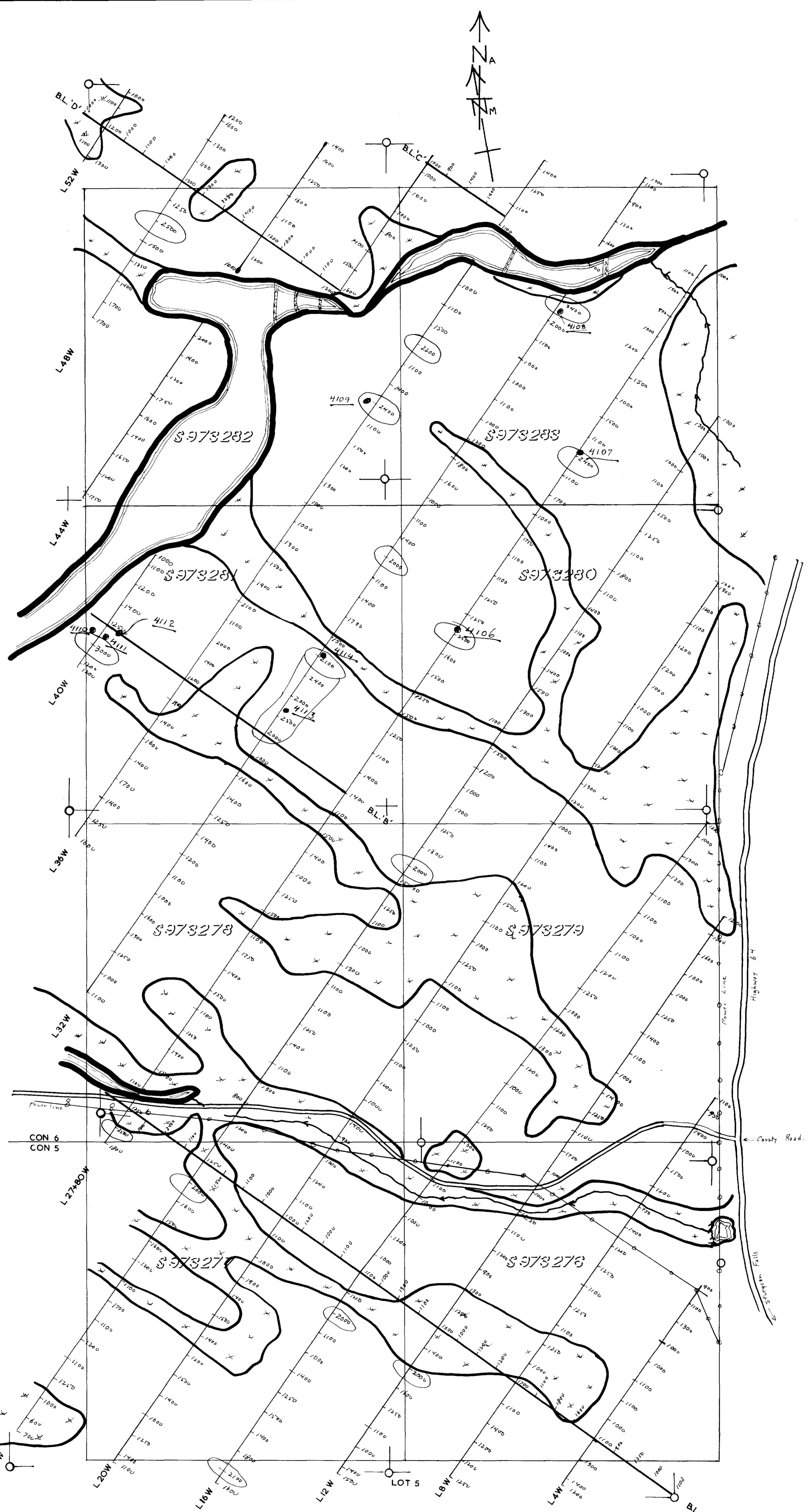
400' Surface Rights Reservation around all lakes & rivers.  
 Geodetic survey posts shown thus: A  
 All land under water in Town of Sturgeon Falls part of the original bed of Sturgeon R. 14.30 acres, patented - Abitibi Power and Paper Company.  
 Lake Nipissing:  
 - Land under water withdrawn from staking by Order in Council dated April 30, 1912.  
 - Islands withdrawn from staking. File: 67051.  
 Flooding Rights reserved to elevation 645.00 C.G.S. Datum. File: 81019

Caldwell Twp.

VI  
 V  
 IV  
 III  
 II  
 I  
 A  
 B  
 C  
 Pedley Twp.  
 INDIAN RESERVE



PLAN NO. M-1123

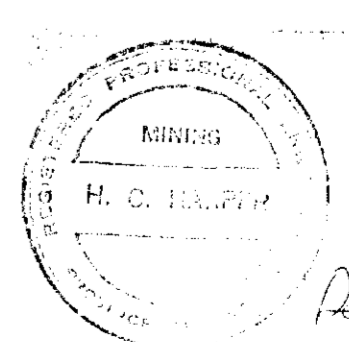


Instrument: Mophor TVI-A  
Spectrometer

○ 2000 + b.p.m.

Rare Earth Sampling

● Sample Location & Number



RECEIVED  
MAY 19 1990

MINING LANDS SECTION

CONCENTRATED RARE EARTH MINERALS LTD  
SPRINGER TWP.

Radiometric Survey

