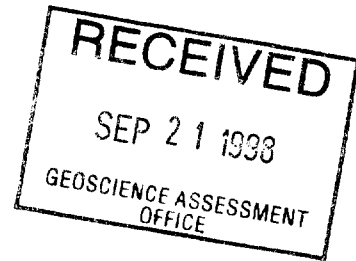




41P15SE2003 2.18888 MOREL

010



REPORT

ON THE GEOLOGY

OF CLAIM NO 1200357

BLOOM LAKE, MOREL TOWNSHIP

KIRKLAND LAKE DISTRICT

Maple, Ont.
Sept 10, 1998.

J.P. Crossley, F.A.S.C.



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2.18888

MOREL

010C

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Introduction

During the period August 2 to August 8, 1998 the author carried out an examination of Claim No 1200357 of the group of claims 1200357 to 1200360 in Morel township, Kirkland Lake Mining Division.

An east - west base line was established running 1200 feet west of and old water filled shaft and approximately 400 feet east to the shore of Bloom Lake. Grid lines were run by compass and hip chain with flagging markers every 100 feet for control for geological mapping.

Location and Access

The claims are located on the west side of Bloom Lake in Morel township. Access is by boat from Highway 560 approximately 8 km east of Gowganda through Lost Lake and Wigwam Lake. This mode of access requires two portages. Long Point Airways presently operate out of Gowganda and can provide quick access.

History

A calcite vein 6 to 8 inches wide was discovered on the west shore of Bloom Lake in 1907 by Messrs Shields and McKinnon. A good deal of bloom and smaltite was noted and the vein stripped for 100 feet along strike.

In 1921 a vein with east - west strike, varying in width up to 6 inches was trenched for several hundred feet. The vein consisted of calcite with occurrence in places of smaltite with some massive bornite and native silver. The wall rock is Nipissing diabase. In 1924 an adit was driven in to the hillside from the lake shore. Several test pits were sunk on a number of veins.

Regional Geology

On the east side of Bloom Lake diabase intrudes Laurentian granite. North of Bloom Lake porphyritic diabase occurs with phenocrysts of plagioclase up to 2 inches. Greywacke, conglomerate, slate, quartzite and arkose of Huronian age are prominent between Bloom Lake and Wigwam Lake. Further west of Bloom Lake is a great development of Laurentian granite. To the north this is a coarse reddish hornblende granite. To the south it becomes quartz deficient grading to a hornblende syenite.

To the east of Lost Lake and extending northward to Bloom Lake the diabase sill slips under sediments of the Cobalt series. The sill has an undulating character.

A bright red to brown igneous rock occurs with the normal diabase east and west of Lost Lake. It has been called a granophyre. It is sometimes very coarse grained. It occurs at the top of the diabase sill in the vicinity of Lost Lake. The area is underlain by diabase of Nipissing age.

Claim Geology

The diabase rises steeply from the shore of Bloom Lake where an adit had been driven. This diabase underlies most of claim 1200357 and is very coarse grained, medium green colour with a gabbro appearance. The south-west portion of this claim is underlain by a medium grained, gray quartz diabase.

A trench begins on the vein 7 feet east of the shaft. The beginning of the trench is water filled. At 20 feet east the trench drops vertically to a depth of 6 to 8 feet. A 1.5 foot fracture zone is exposed with a 6 to 8 inch vein with calcite stringers and bornite along the east side. Further south the veins splay with fractures leading into each wall. Good bornite and chalcopyrite occur along the north wall of the trench with some mineralization extending into the country rock. Fairly heavy Cu - Co stain occurs along the south wall. The vein strikes approximately east - west and dips vertically.

The veins as exposed are narrow and so difficult to sample. Two representative samples of vein material were taken from the trench and two from the shaft dump. These samples consist of calcite with bornite, chalcopyrite, smaltite + bloom, and fine native silver.

At the base of the hill by Bloom Lake an open cut extends for 16 feet into the outcrop followed by an adit for another 20 feet. A 6 inch fracture vein zone is visible on the face at the south side. This was not followed in the adit. A 1 to 1.5 inch wide calcite vein occurs along the north side in the adit. No mineralization was noted. Both veins dip vertically. A little calcite with cobalt bloom was noted on the dump.

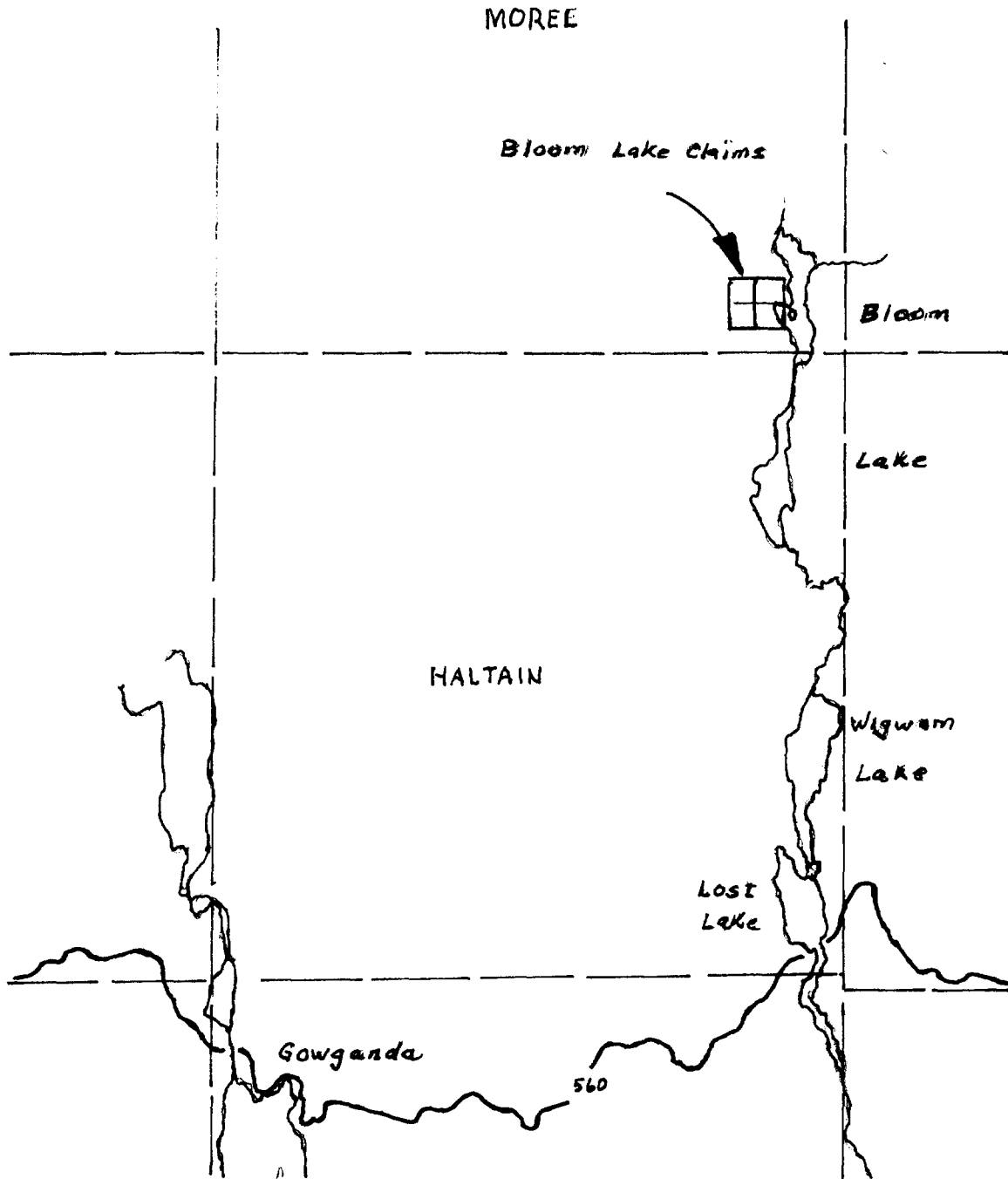
Sampling :

Sample No.	Location	Ag g/tonne	Co %	Cu %
2501	Shaft dump	309.0	0.497	11.02
2502	Shaft dump	219.0	0.297	
2503	Trench	476.3	0.898	14.73
2504	Trench	603.0	0.777	

References:

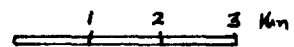
- A.G.Burrows, Ont. Bur. Mines, 1909 - Vol. XVIII, pt 2.
A.G.Burrows, Gowganda Silver Area, Ont. Ont. Bur. Mines, 1920 - Vol. XXIX, pt 3.

(i)



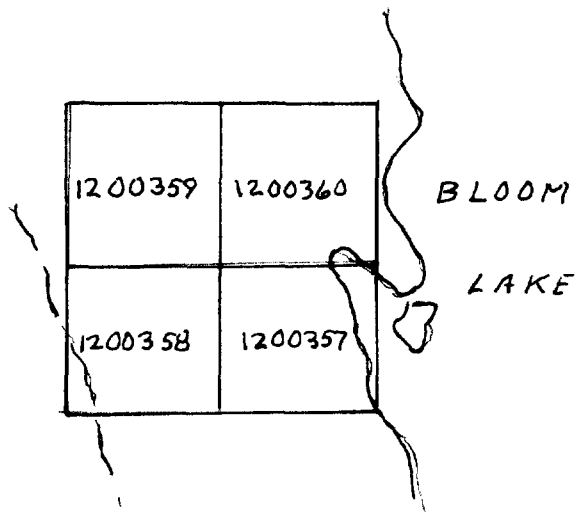
LOCATION MAP
MOREE TOWNSHIP

Scale 1: 100,000



(11)

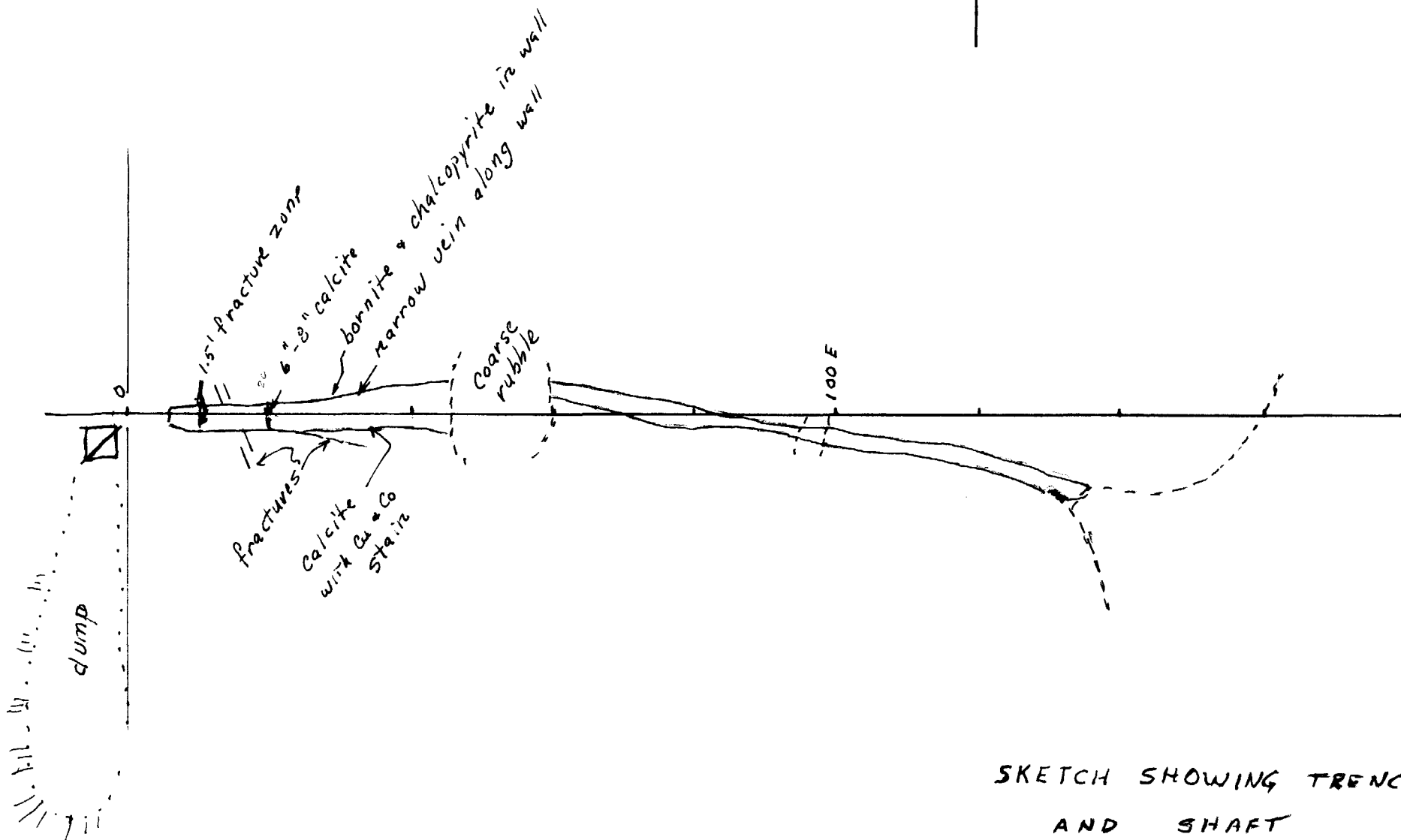
N



CLAIM MAP

Scale: 1:20,000

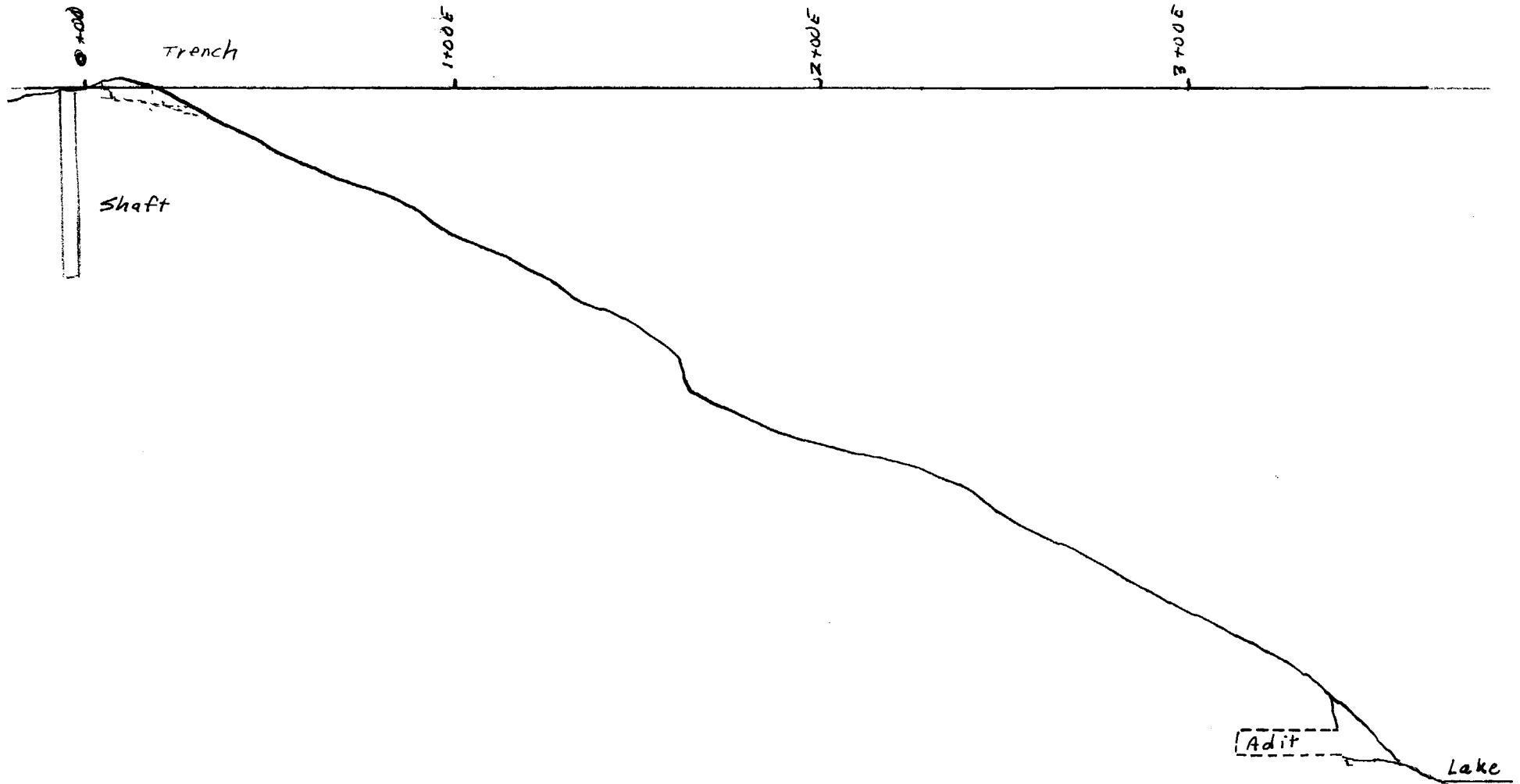
(11)



SKETCH SHOWING TRENCH
AND SHAFT

Scale 1" = 20' 12240

(v)



SECTION

THROUGH SHAFT & ADIT

Scale 1" = 40'

1:480



Established 1928

Swastika Laboratories

Assaying & Chemical Analysis - Reporting

Geochemical Analysis Certificate

SA 2000-001

A DECKER

Morel

certified



41P15SE2003 2.18888 MOREL 900

section 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, this work and correspond with the mining land holder. Questions about this collection should be directed to the Mining Act and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

- 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)

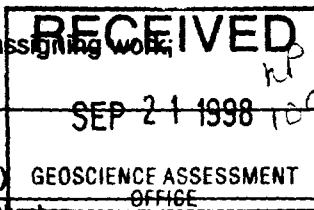
Name <i>J. D. CROSSLEY</i>	Client Number <i>122599</i>
Address <i>1560 KING-VAUGHAN RD MAPLE, ONT L6A 2A7</i>	Telephone Number <i>905-833-5853</i>
	Fax Number
Name <i>ALBERT DECKER</i>	Client Number LIC No <i>J-4155</i>
Address <i>GOWGANDA, ONT P0J 1S0</i>	Telephone Number <i>705-624-2276</i>
	Fax Number

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	Office Use
	Commodity
	Total \$ Value of Work Claimed <i>2108</i>
Dates Work Performed From <i>2</i> Day Month <i>8</i> Year <i>1998</i> To <i>8</i> Day Month Year	NTS Reference
Global Positioning System Data (if available) <i>47° 45.59 N 80° 40.42 W</i>	Mining Division <i>Kirkland Lake</i>
Township/Area <i>MOREL</i>	Resident Geologist District <i>Kirkland Lake</i>
M or G-Plan Number	

- 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 assessment purposes;
- include two copies of your technical report.



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

Name <i>J. D. CROSSLEY</i>	Telephone Number <i>905-833-5853</i>
Address <i>1560 KING-VAUGHAN RD, MAPLE, ONT</i>	Fax Number
	Telephone Number
	Fax Number
	Telephone Number
	Fax Number

Certification by Recorded Holder or Agent

J. DANIEL CROSSLEY (Print Name), do hereby certify that I have performed the work or witnessed the same during or after its completion, and, to the best of my knowledge, the annexed report is true.

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>J. D. Crossley</i>	Date <i>Sept 15, 1998</i>
Address	Telephone Number <i>905-833-5853</i>
	Fax Number

Viewed December 20/98

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.

W9880.00618

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 1200 357	1	2108.02	1108.		
2 1200 360	1		1000		
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
Column Totals	2	2108	2108		

I, J. DANIEL CROSSLEY, 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

Date

J. D. Crossley

Sept 15, 1998

6. 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

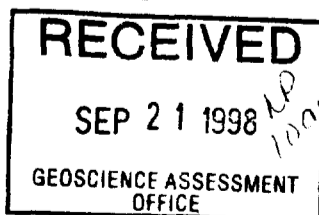
Date Notification Sent

Date Approved

Total Value of Credit Approved

Approved for Recording by Mining Recorder (Signature)

0241 (03/97)





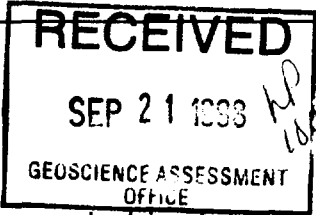
Statement of Costs for Assessment Credit

Transaction Number (office use)

W9880.00618

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 Cut base line, Run grid lines, Clean out trench, Mapping, Research, report & drafting, Assays, Associated Costs, Travel, Transportation Costs, Long Point Airways, Food and Lodging Costs, Groceries.



Total Value of Assessment Work 2108.02

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, J. Daniel Crossley, 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 recorded holder I am authorized to make this certification.

Signature: J. D. Crossley, Date: Sep 15, 1998

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines



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

December 17, 1998

JOSEPH DANIEL CROSSLEY
1560 KING-VAUGHAN ROAD
MAPLE, Ontario
L6A-2A7

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: 2.18888

Status

Subject: Transaction Number(s): W9880.00618 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 or by telephone at (705) 670-5856.

Yours sincerely,

A handwritten signature in black ink, appearing to read "Blair Kite".

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

Work Report Assessment Results

Submission Number: 2.18888

Date Correspondence Sent: December 17, 1998

Assessor: Bruce Gates

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9880.00618	1200357	MOREL	Approval	December 16, 1998

Section:
9 Prospecting PROSP

Correspondence to:
Resident Geologist
Kirkland Lake, ON

Recorded Holder(s) and/or Agent(s):
JOSEPH DANIEL CROSSLEY
MAPLE, Ontario

Assessment Files Library
Sudbury, ON



Ministry of
Natural
Resources

Ministry of
Northern Development
and Mines

INDEX TO LAND DISPOSITION

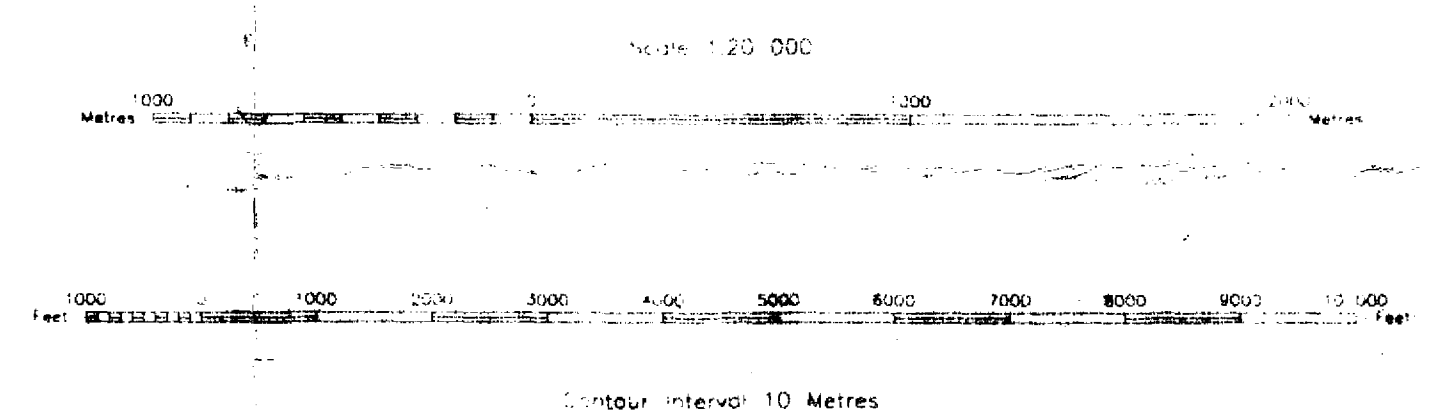
PLAN
G - 3688

TOWNSHIP
MOREL

M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE

MINING DIVISION
LARDER LAKE

LAND TITLES/REGISTRY DIVISION
TIMISKAMING



DATE OF ISSUE
DEC 22 1988

PROVINCIAL RECORDING
OFFICE - SUDBURY

AREAS WITHDRAWN FROM DISPOSITION

MRO - Mining Rights Only
SRO - Surface Rights Only
M+S - Mining and Surface Rights

SYMBOLS

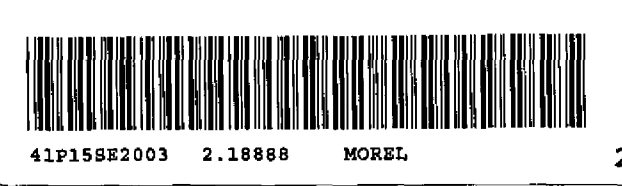
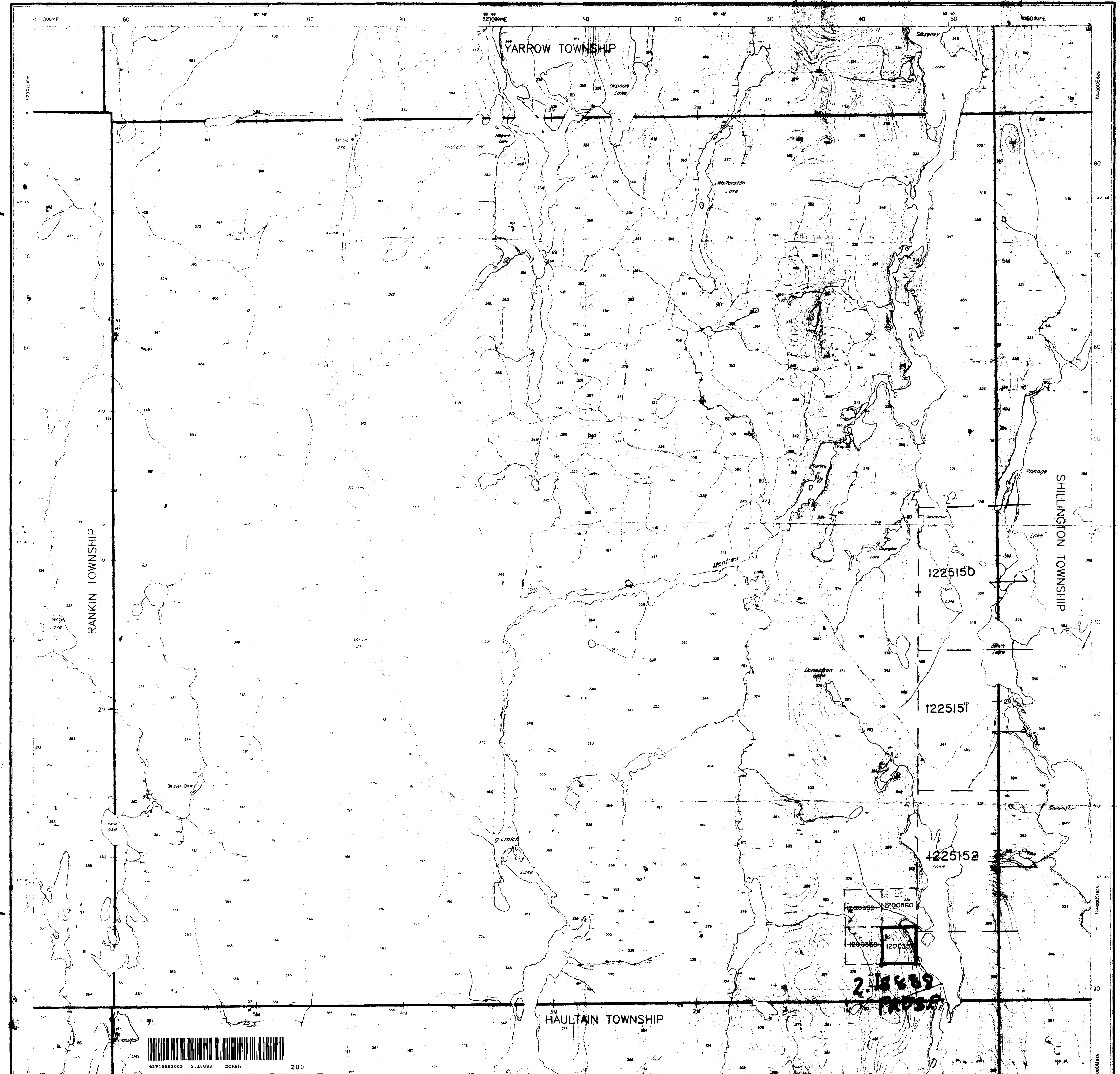
- Boundary
- Administrative District
- Township Meridian, Base line
- Road, highway, surveyed
- Shoreline
- Shoreline, surveyed
- Right of way, road
- Right of way, railway
- Utility
- Water
- Channel, river
- Contour
- Intersected
- Depression
- Contour, spot, horizontal
- Wooded area
- Mine shaft
- Pipeline (above ground)
- Railway, single track
- Railway, double track
- River, stream, creek
- Intermittent
- Road, highway, county, township, access
- Tram, bush
- Shoreline (original)
- Transmission line
- Wooded area

DISPOSITION OF CROWN LANDS

- 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
- Cancelled
- Reservation
- Sand & Gravel
- Land Use Permit

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

ARCHIVED SEPT. 19, 1996
CIRCULATED AUGUST 16/96



41215822003 2.18888 MOREL 200

1200359

1200360

1200358

1200357



LEGEND

Rock Types

1. Nipissing diabase
2. Quartz diabase

Symbols

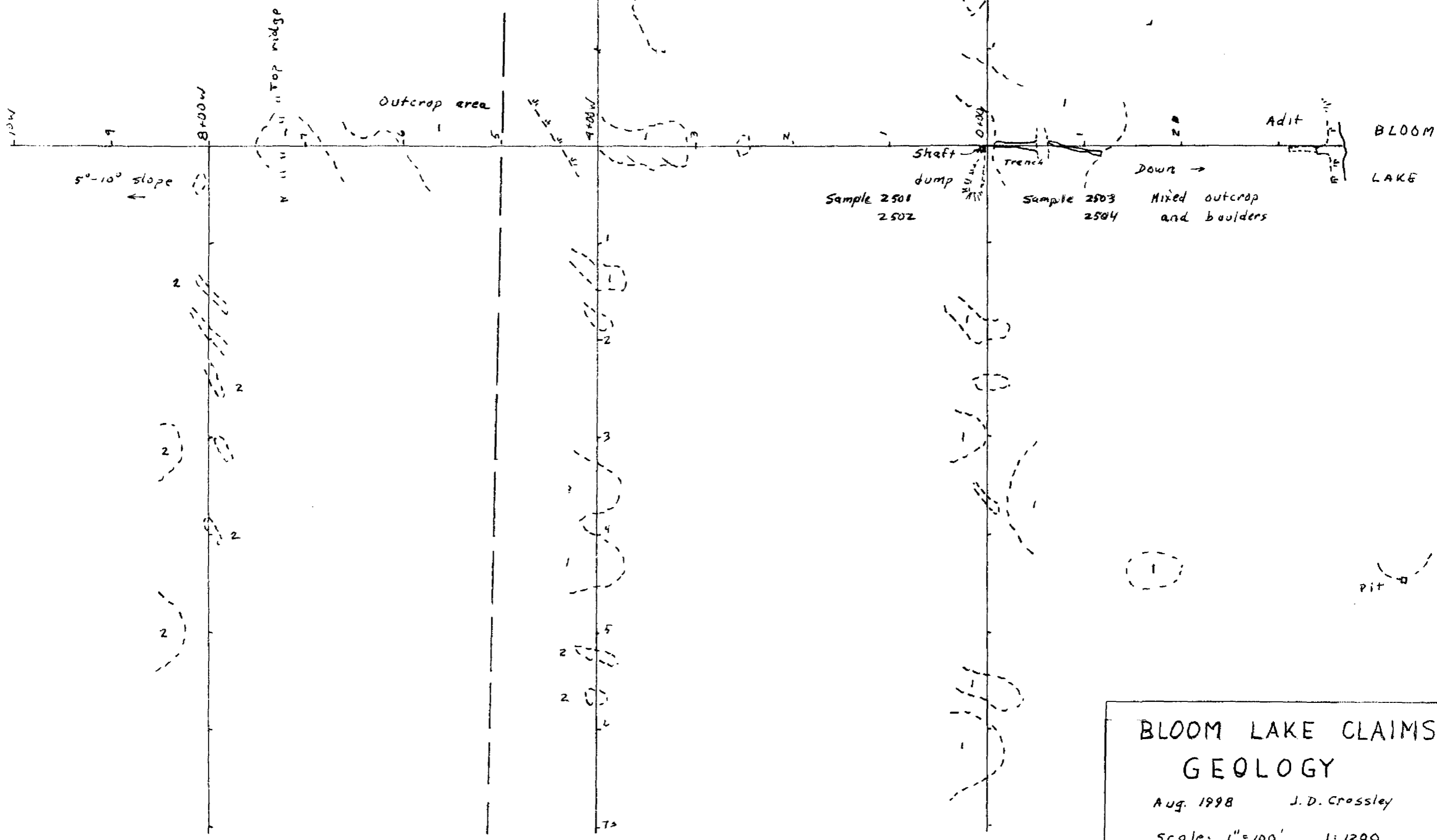
Outcrop

Talus

Trench

Higher ground

Swamp



**BLOOM LAKE CLAIMS
GEOLOGY**

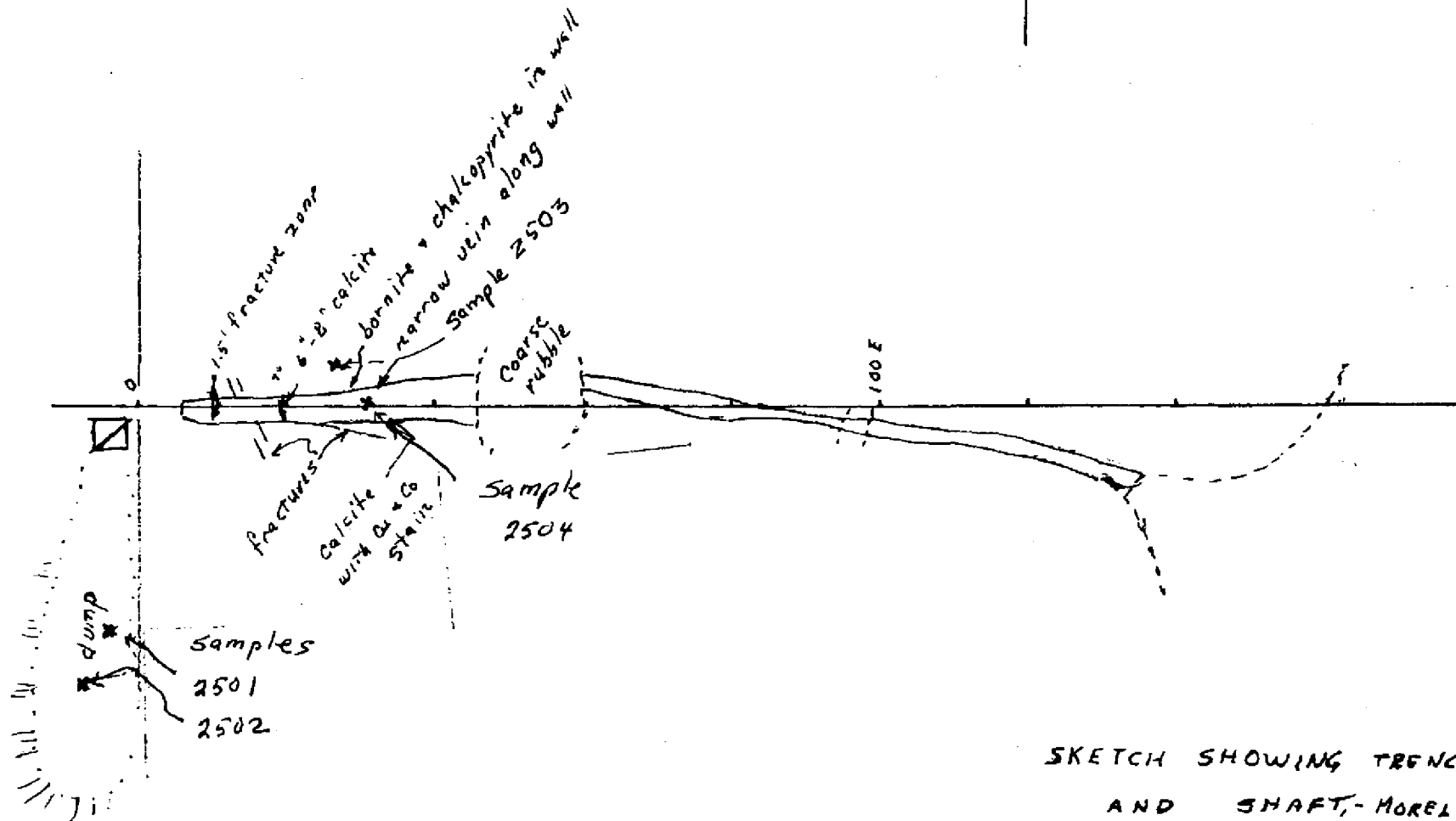
Aug. 1998 J. D. Crossley

Scale: 1" = 100' 1:1200

Feet



(11)



SKETCH SHOWING TRENCH AND SHAFT, - MOREL TWP

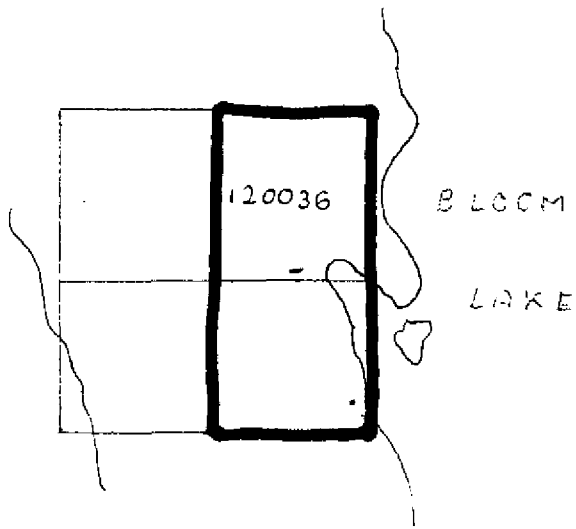
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41P15SE2003 2.18888 MOREL

220

N



RECEIVED
SEP 21 1988
GEOSCIENCE DEPARTMENT
OFFICE

CLAIM MAP

Scale: 1:20,000



41P15SE2003 2.18888 MOREL

230