



41110SW0003 2 16696 NEELON

010

- ASSESSMENT REPORT -

GЕOPHOTOLINEAMENT STUDY

CLAIMS S1197700 & S1197701  
NEELON TOWNSHIP  
DISTRICT OF SUDBURY

RECORDED HOLDER  
Robert G. Komarechka  
Apt. #1 - 537 Haig Street  
Sudbury, Ontario  
P3C 1E2



2.16696

Prepared by: *Qual # 2,10828*

Robert G. Komarechka  
July 3, 1996



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## CONISTON DIABASE GEOPHOTOLINEAMENT STUDY

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CERTIFICATE

pg 5

## INTRODUCTION

Due to the lack of overgrowth and even soil cover over most of this study area, a photogeologic study was undertaken. This study was undertaken for two reasons. First, to determine the possibility of a parallel offset of the nickel irruptive (a possible extension of the Manchester Offset) due to the presence of a nickel showing, Sudbury breccia, and magnetic anomalies in this area. Second, to determine any physical evidence to suggest variations in the quality of the Nipissing Diabase found in the area - due to actions of fumes from the previous operation of the nearby Coniston smelter the surface of these rocks are covered by a dark rind, visual recognition of variation can be difficult.

## LOCATION & ACCESS

The area of study occurs directly northeast of the town of Coniston directly north of highway 17. Coniston is a small town just to the east of Sudbury. The specific location of the study area is about 1 kilometer east of the intersection of the Garson-Falconbridge road and highway 17 and about 2 kilometers north of this area.

Access to the southern part of this site can be obtained directly off highway 17 while access to the north area can be obtained off the Garson Falconbridge highway then turning eastward on to the Northern Ontario Natural Gas Line trail.

## PREVIOUS WORK

Previous work in this area has consisted of geological mapping, geophysics, diamond drilling, assaying as well as a study on the potential of this rock as an aggregate source for railway ballast.

## GEOLOGY

Regionally this area is found within the Southern Province within a few kilometers north of the Grenville front. Locally the area consists primarily of a Nipissing Diabase intruding quartzites and

subarkoses of the Mississagi Formation. Air photos of the surrounding quartzites show folding suggesting a synformal axis about one kilometer to the north, paralleling the Grenville front more or less east west and plunging to the east. Several trap rock and olivine diabase dykes are found in the area as well as numerous prominent fractures.

## DESCRIPTION OF ACTIVITIES

Topographical maps at a scale of 1:2,000 with elevation contours at 1 meter intervals were obtained from the Regional Municipality of Sudbury. These maps were spliced together and used as a base map underlay. Air photos of this area, taken after a recent light snowfall, were selected to highlight lineaments. These lineaments were then transferred on to map 2 contained in the back pocket.

Reconnaissance visits to the site on January 3 & 4 confirmed the diabase sedimentary contact and confirmed the trend of lineations.

## GEOLOGICAL OBSERVATIONS

Several trends of lineaments are evident within this area. The first of these trend north northeast and dip to the east. These lineaments appear within the Nipissing Diabase and can have an undulose character. It is speculated that this parallel trend of lineaments represent a layering of perhaps several pulses within the sill, hence an anticipated uniformity of composition could be expected along the trend of these structures.

Another lineament trend runs more or less east-west. This trend creates deep wide low lying valleys apparently. In some cases it appears a lateral displacement occurs. A less prominent narrower trend in a similar direction is produced by differential weathering of trap dikes.

A third trend of lineaments occurs as short northwest trending features of short extension. These features seem to cross the assumed igneous layering often terminating along the edge of layers. It is probable that these features are related to some form of stress

relief across the layering plane, perhaps in response to the compression of the Grenville front to the south.

## CONCLUSION

No obvious lineament trend was observed which might suggest an extension of the Manchester Offset.

An obvious trend was observed that appears to indicate a north northeast trending eastward dipping parallel igneous layering (surrounding quartzites have concordant bedding with these linear features). From the surrounding Huronian sedimentary rocks it would appear that the top of the diabase sill lies to the east. It is to be expected that due to the assumed transverse short extending northwest trending fractures (the third trend of lineaments) that differential lateral movement has occurred along the assumed igneous layering. These structures should be considered in the course of planning a quarry face, in facilitating breakage while blasting, in anticipation of face stability and for consistency of product more or less along the assumed bedding planes.

## CERTIFICATE

I, Robert G. Komarechka, of the City of Sudbury, in the Province of Ontario hereby certify as follows:

1. That I am a consulting geologist currently residing in Sudbury.
2. That I am a graduate, BSc. Geology major, of Laurentian University of Sudbury, Ontario, a registered professional geologist in the Province of Alberta affiliated with the Canadian Council of Professional Engineers and that I have been practicing my profession for twelve years.
3. That I have an interest in the property.
4. That this report is based on field examinations and information collected and supervised by myself, over the fall and winter of 1995.

Robert G. Komarechka P. Geol.

Dated at Sudbury, Ontario, this 3<sup>rd</sup> day of July, 1996.

The following 2 airphotos were used for this photolineament study on claims S1197700 & S1197701:

- 1) 89-4617 (32-36)
- 2) 89-4617 (32-35)



**Report of Work Conducted  
After Recording Claim**

**Mining Act**

Transaction Number  
**W9670.00124**

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

- Instructions:**
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulatory Recorder.
  - A separate copy of this form must be
  - Technical reports and maps must acc
  - A sketch, showing the claims the worl



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Recorded Holder(s) <b>Robert Gerald Komarechka</b>		Client No. <b>153168</b>
Address <b>#1 537 HAIG ST SUDBURY, ONTARIO P3C1E2</b>		Telephone No. <b>(705) 673-0873</b>
Mining Division <b>SUDBURY</b>	Township/Area <b>NEELON</b>	M or G Plan No. <b>G-4091</b>
Dates Work Performed	From: <b>NOV 23, 1995</b>	To: <b>JULY 3, 1996</b>

**Work Performed (Check One Work Group Only)**

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	<b>GEO PHOTO LINEAMENT INTERPRETATION STUDY</b>
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

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Total Assessment Work Claimed on the Attached Statement of Costs \$ 2,174.97

**Note:** The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

**Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)**

Name	Address
<b>WALTER HANYCH - GEOLOGIST</b>	
<b>ROBERT GERALD KOMARECHKA AUTHOR - GEOLOGIST; RECORDED HOLDER</b>	<b>#1 537 HAIG ST SUDBURY, ONTARIO P3C1E2</b>

(attach a schedule if necessary)

**Certification of Beneficial Interest \* See Note No. 1 on reverse side**

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date <b>JULY 3, 1996</b>	Recorded Holder or Agent (Signature) <i>Robert Komarechka</i>
--	-----------------------------	--

**Certification of Work Report**

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying <b>ROBERT GERALD KOMARECHKA #1 537 HAIG ST SUDBURY, ONTARIO P3C1E2</b>		
Telephone No. <b>(705) 673-0873</b>	Date <b>JULY 3, 1996</b>	Certified By (Signature) <i>Robert Komarechka</i>

**For Office Use Only**

Total Value Cr. Recorded <b>\$ 2,175</b>	Date Recorded <b>July 03/96</b>	Mining Recorder <i>[Signature]</i>	Received Stamp <b>JUL 03 1996</b> A.M. P.M. 7 8 9 10 11 12 1 2 3 4 5 6 <i>[Signature]</i>
	Deemed Approval Date <b>October 1/96</b>	Date Approved	
Date Notice for Amendments Sent			



Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	1197700	3	900.00	1,200.00	0	0
	1197701	4	1275.00 <del>1275.00</del> <i>OK</i>	975.00 <del>975.00</del> <i>OK</i>	300.00	0
<b>2.16698</b>						
<b>2</b>			<b>Total Value Work Done</b>	<b>Total Value Work Applied</b>	<b>Total Assigned From</b>	<b>Total Reserve</b>
			2,175.00	2,175.00	300.00	0

**RECEIVED**  
 JUL 26 1996  
 MINING LANDS BRANCH

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

1.  Credits are to be cut back starting with the claim listed last, working backwards.
2.  Credits are to be cut back equally over all claims contained in this report of work.
3.  Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

**Note 1:** Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

**Note 2:** If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date
---	-----------	------



**Statement of Costs  
for Assessment Credit**

**État des coûts aux fins  
du crédit d'évaluation**

Mining Act/Loi sur les mines

Transaction No./N° de transaction

W9670.00124

Personal information collected on this form is obtained under the authority of the **Mining Act**. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la **Loi sur les mines** et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, Ministère du Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

**1. Direct Costs/Coûts directs**

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type GEO PHOTO INTERPRETATION	1000.00	
	REPORT PREP	500.00	
	FIELD WORK	500.00	2,000.00
Supplies Used Fournitures utilisées	Type BLUEPRINTS PHOTO COPIES, STATIONARY	22.11	
	TOPOCAL & FLAGGING	9.00	
	AIRPHOTOS	43.00	
	MAPS	42.36	116.47
Equipment Rental Location de matériel	Type COMPUTER RENTAL	45.00	
			45.00

**Total Direct Costs**  
**Total des coûts directs** ~~2178.47~~  
2161.47

**2. Indirect Costs/Coûts indirects**

\*\* Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.  
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type 4WD TRUCK	13.50	
Food and Lodging Nourriture et hébergement	MINING LANDS BRANCH		
Mobilization and Demobilization Mobilisation et démobilisation			

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13.50

**Sub Total of Indirect Costs**  
**Total partiel des coûts indirects**

13.50

**Amount Allowable (not greater than 20% of Direct Costs)**  
**Montant admissible (n'excédant pas 20 % des coûts directs)**

13.50

**Total Value of Assessment Credit**  
**(Total of Direct and Allowable  
Indirect costs)**

**Valeur totale du crédit  
d'évaluation**  
**(Total des coûts directs  
et indirects admissibles)**

2174.97

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentes.

**Filing Discounts**

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

**Remises pour dépôt**

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	x 0,50 =

**Certification Verifying Statement of Costs**

I hereby certify:  
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Recorded Holder I am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification

**Attestation de l'état des coûts**

J'atteste par la présente :  
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé  
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature Robert S. Komaroff Date JULY 3/96

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines



October 7, 1996

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

Roy Denomme  
Mining Recorder  
933 Ramsey Lake Road, 3rd Floor  
Sudbury, ON  
P6E 6B5

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

Dear Sir or Madam:

Submission Number: 2.16696

**Subject: Transaction Number(s): W9670.00124**

---

After reviewing the Work Report(s) we have prepared this letter and the attached summary, which lists the results of our review. Requirements of the Assessment Work Regulation may not have been fully met. Please examine the summary to determine the next course of action concerning the identified Work Report(s).

NOTE: The 90 day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, is no longer in effect for this submission.

PLEASE NOTE ANY REQUESTED REVISIONS MUST BE SUBMITTED IN DUPLICATE.

If the anniversary dates for the mining claims affected by this correspondence have not passed, a number of options are available. Please contact the Mining Recorder to discuss these options.

If you have any questions regarding this correspondence, please contact Steve Beneteau at (705)670-5855.

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

**Submission Number:** 2.16696

**Date Correspondence Sent:** October 07, 1996

**Assessor:** Steve Beneteau

**General Comment:**

Thank you for your prompt response to the 45 Day Notice dated September 23, 1996. All deficiencies have been corrected. Accordingly, assessment credit has been approved as originally submitted.

---

<b>Transaction Number</b>	<b>First Claim Number</b>	<b>Township(s) / Area(s)</b>	<b>Status</b>	<b>Approval Date</b>
W9670.00124	1197700	NEELON	Approval After Notice	October 04, 1996

**Section:**

18 Other PHOTO

**Correspondence to:**

Mining Recorder  
Sudbury, ON

Resident Geologist  
Sudbury, ON

Assessment Files Library  
Sudbury, ON

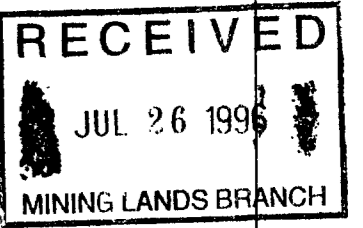
**Recorded Holder(s) and/or Agent(s):**

ROBERT GERALD KOMARECHKA  
SUDBURY, Ontario

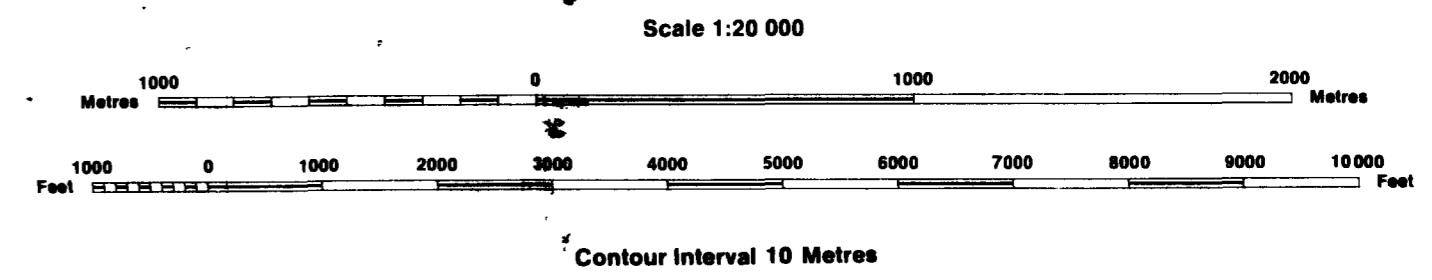
**INDEX TO LAND DISPOSITION**

PLAN  
**G-4091**  
 TOWNSHIP  
**NEELON**

M.N.R. ADMINISTRATIVE DISTRICT  
**SUDBURY**  
 MINING DIVISION  
**SUDBURY**  
 LAND TITLES/REGISTRY DIVISION  
**SUDBURY**



**2.16696**



**(PHOTO)**

**AREAS WITHDRAWN FROM DISPOSITION**

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

IN SERVICE OCT. 20, 1988

**SYMBOLS**

Boundary	.....	
Township, Meridian, Baseline	.....	
Road allowance: surveyed	.....	
shoreline	.....	
Lgt/Concession: surveyed	.....	
unsurveyed	.....	
Parcel: surveyed	.....	
unsurveyed	.....	
Right-of-way: road	.....	
railway	.....	
utility	.....	
Reservation	.....	
Cliff, Pit, Pile	.....	
Contour	.....	
Interpolated	.....	
Approximate	.....	
Depression	.....	
Control point (horizontal)	.....	
Flooded land	.....	
Mine head frame	.....	
Pipeline (above ground)	.....	
Railway: single track	.....	
double track	.....	
abandoned	.....	
Road: highway, county, township	.....	
access	.....	
trail, bush	.....	
Shoreline (original)	.....	
Transmission line	.....	
Wooded area	.....	

**NOTES**

\* JUNE 1, 1994 OPENINGS ONTARIO GAZETTE  
 -VOL. 27-20 MAY 14, 1994 PAGE 1546

① APPLICATION UNDER SEC.30(b) Apr. 3/81 - See Land Roll File

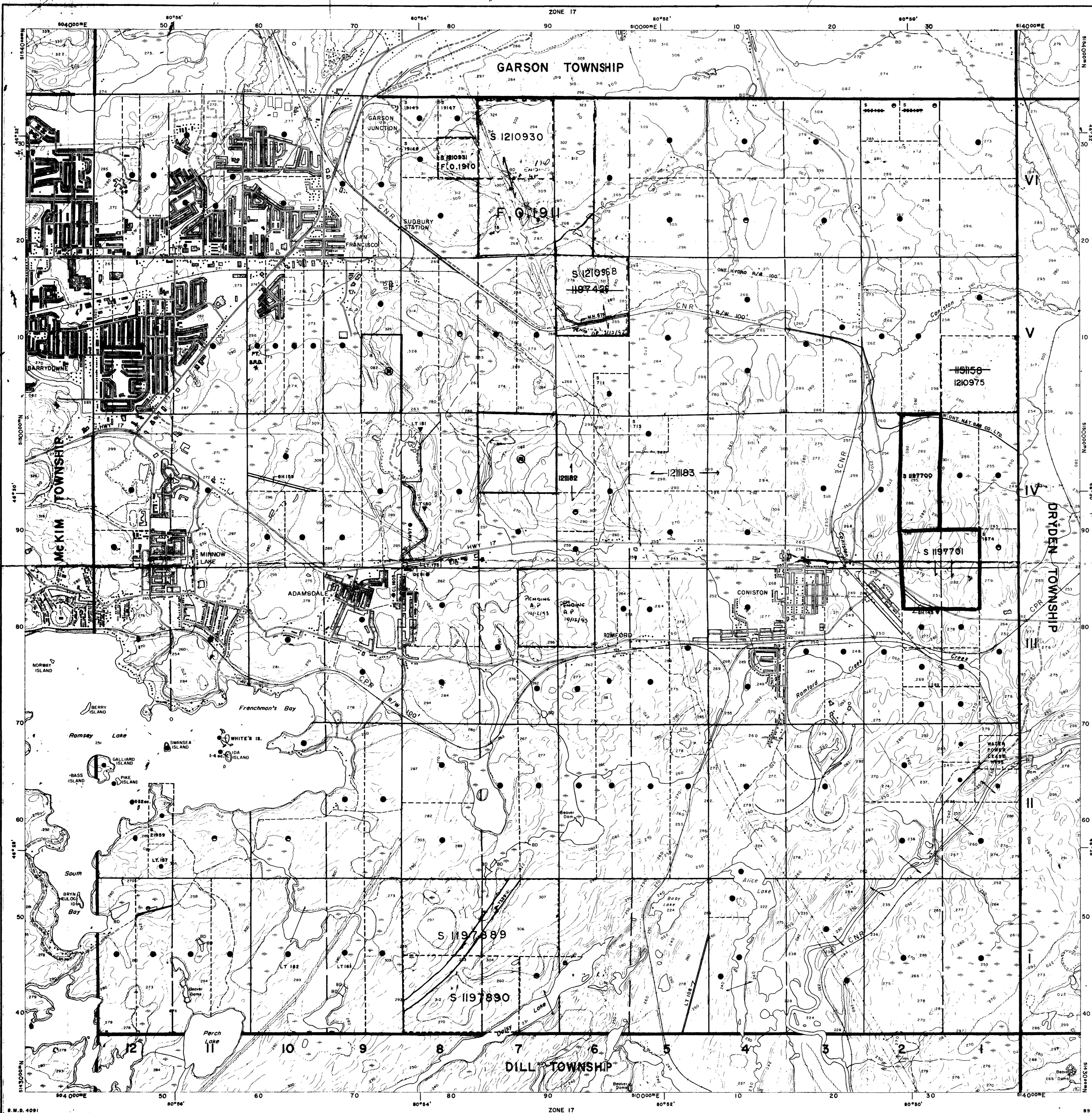
**DATE OF ISSUE**

**JUL 24 1996**  
 SUDBURY  
 MINING RECORDS OFFICE

**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	.....	OC
Cancelled	.....	○
Reservation	.....	○
Sand & Gravel	.....	○

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 RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



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CONISTON DIABASE

MAP 3-2 PHOTOLINEAMENTS

LEGEND

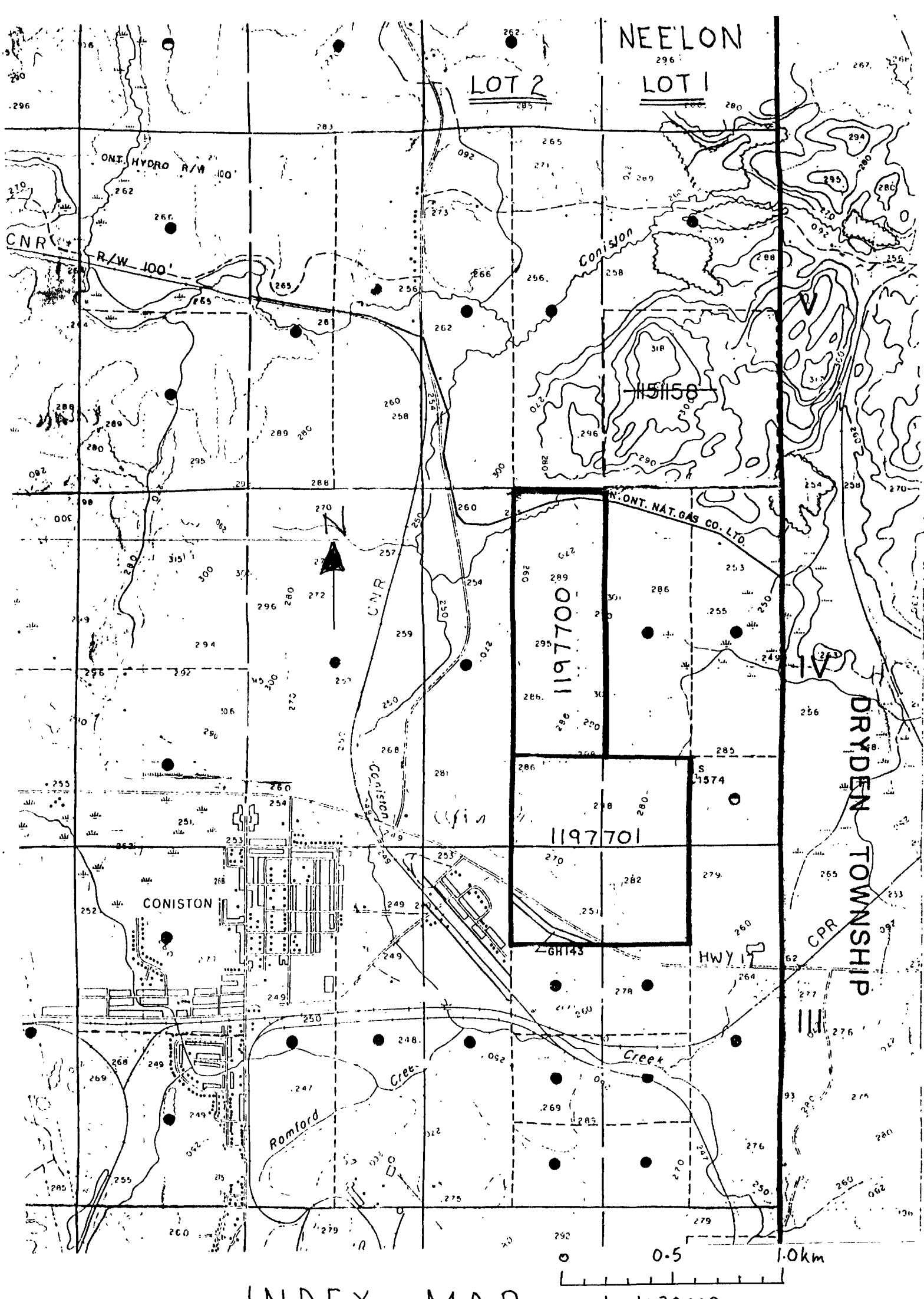
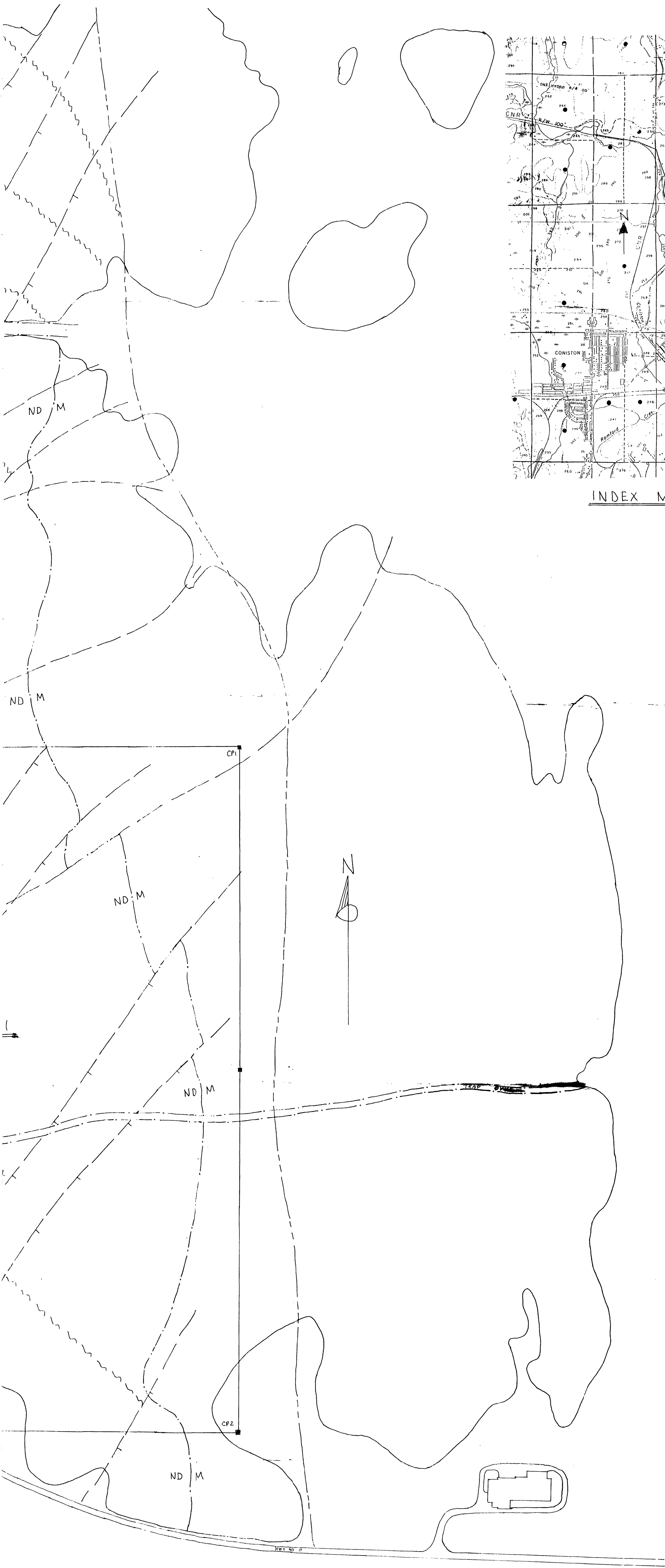
- - - POSTULATED BEDDING OR PULSES WITHIN DIABASE SILL WITH DIP - TOPS TO THE EAST
- - - FRACTURES ACROSS BEDDING
- - - EAST-WEST FRACTURES - POSSIBLE TRAP DYKES
- - - FAULT
- - - GEOLOGICAL CONTACTS
- ND NIPISING DIABASE
- M MISSISSAUGA QUARTZITES / ARKOSE

DRAWN BY: Bob Komarechka  
January 31, 1996

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JUL 26 1996  
MINING LAMP BRANCH

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INDEX MAP Scale 1:20,000