



41P11SW8601 2.15170 CHURCHILL

010

Report on the Churchill Project

Churchill Township

District of Sudbury

Ontario

N.T.S. 41 P/11

2.15170

Toronto, Ontario  
January, 1993

By: Chris Suchanek

2.8714



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Map 1	Geological Survey of the Churchill Project	Scale - 1:2,500
	Churchill Township Claim Sheet (G-3210)	Scale - 1:31,680

## 1.0 Introduction

During two periods from July 14 - 16, 1992 and August 9 - 25, 1992, a gold exploration program was performed in Churchill Township within the Sudbury District. The program involved the stripping of a gold showing uncovered during 1991 as well as geological mapping and prospecting of the block claim containing the showing. This report concerns the results of this work. The program was funded under the Ontario Prospectors Assistance Program (OPAP) - 1992-1993.

## 2.0 Location and Access (Fig. 1)

The project area is located in Churchill Township in the Larder Lake Mining Division within the Sudbury District. It is centered at latitude 47° 36'N and longitude 81° 20'W and the N.T.S. reference is 41 P/11. Access is via Highway # 144, north from Sudbury to Highway # 560 which leads eastward to the hamlet of Shining Tree. From Shining Tree, a boat is required to travel through the West Arm of Shining Tree Lake to a short portage which connects with Jonson Lake. The property lies at the northwest end of Jonson Lake.

## 3.0 Claim Status

The property comprises one unpatented, block claim (11183/51) covering 64 hectares. A copy of the Churchill Township claim sheet (G-3210) is located in the back pocket. The author retains 100 % ownership of the claim block which is 'in good standing' until October 1993. The work from this program will be applied for assessment to maintain the standing of the claim block.

## 4.0 Logistics and Method of Work

A 12 foot aluminum boat and motor was rented for travelling on Shining Tree Lake while a canoe was used to reach the property on Jonson Lake. The camp was set up on a small island in the West Arm of Shining Tree Lake.

Initially, a chain-sawed baseline was cut, chained and picketed south of the gold showing for line control and access. Line 0 was also cut from the baseline to the showing. The showing was then hydraulically stripped to bedrock with a 'Wajax Mark 26' fire pump, mapped in detail and sampled at a scale of 1:100. This was followed by line flagging and geological mapping and prospecting at a scale of 1:2,500 over the remainder of the property.

Flagged lines were put in orthogonally to the baseline at 100 meter intervals using compass and hip chain. Marked stations occur every 100 meters while 25 meter stations are identified by equal

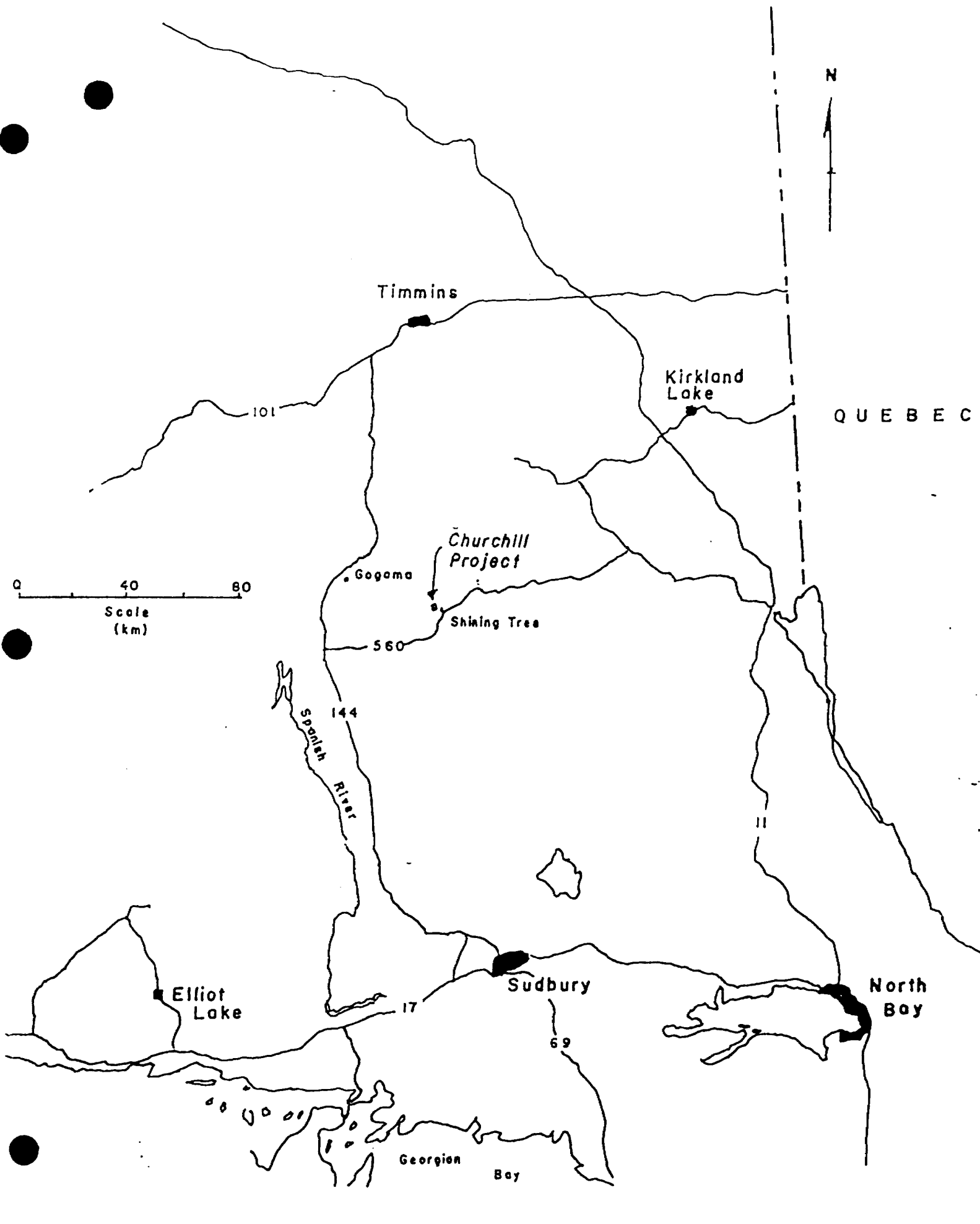


Figure 1 - Location Map of Property

length flag ends. A flagged tie line (4+50N) was required for control north of the small pond. The baseline measures 910 meters while a total of 6,109 meters of flagged lines occur on the property. A total of 18 samples were taken. Sample locations are marked by flag and number.

## 5.0 Analytical Technique

All samples were submitted to X-Ray Assay Laboratories, Don Mills, Ontario. Sample preparation involved drying, crushing, riffle division to a maximum of 250 g and milling in chrome steel. Gold analysis involved fire assay (F.A.) with direct current plasma (D.C.P) finish after dissolution of the fire assay bead. Samples returning > 1,000 ppb were re-assayed by standard fire assay techniques and reported in oz/ton Au. Silver and base metals analyses involved D.C.P. emission spectrometry after standard extraction using nitric aqua regia.

## 6.0 Results of the Program

6.1 Exploration Target: Au-Asp bearing unit within felsic metavolcanic stratigraphy.

### 6.2 Geology

The property is underlain by an Archean sequence of northwest striking, mafic to felsic metavolcanic rocks largely intruded in the northwest by Middle Precambrian (Nipissing) diabase.

A generalized trend of mafic through intermediate to felsic volcanism is suggested for the area (Suchanek and Kent, 1991) however this is not realized within the boundaries of the property. The distribution of lithologies shows a more randomness under the more detailed mapping conditions. The mafic metavolcanic rocks are dominantly massive, fine grained, greenish grey flows. In the southwest, a porphyritic flow unit shows altered plagioclase phenocrysts in a largely chloritized matrix. This unit is adjacent to a coarse grained mafic unit which may be intrusive in origin however evidence is lacking. To the southeast of this area, a subtle increase in felsic component suggests rocks of more andesitic composition.

Intermediate metavolcanic rocks are mainly fine grained to aphanitic, medium to light grey-green massive flow units. Minor porphyritic varieties show plagioclase phenocrysts and quartz eyes (L1W-1+50N). A more dacitic component occurs in some units proximal to felsic units. One aphanitic tuff unit showing faint fabric occurs at L2W-2+90N.

Felsic metavolcanics are represented by mainly fragmental rocks with minor fine grained massive flows. Some of the fragmental units show homogeneous, angular to subrounded, felsic

lapilli varying from a few mm to 3 cm in the greatest dimension. A more dominant fragmental unit (particularly around the Au showing) shows variably sized (up to 10 cm), angular to subrounded, heterolithic fragments. The fragments vary from fine grained and light beige to cherty and light green. Where fragments are abundant, they are commonly brecciated and show a chloritic matrix. Some of the larger fragments show up to 3 mm of bleached margin. Orientation of fragments is completely random. The unit has been designated as a felsic debris flow due to the heterogeneity of the variably sized, randomly oriented fragments.

The large diabase in the northwest is typically medium to coarse grained and medium to dark green. Locally the development of hornblende occurs. In the northeast, an ophitic texture is well developed. Local chilled portions would indicate multiple intrusion. The spatial distribution of the majority of the diabase suggests that it intruded the supracrustal rocks at a low angle and now overlies them. However the topographically pronounced, linear, southeast trending diabase southwest of the Au showing may have a steeper intrusive orientation. This may represent an off-shoot of the main diabase or a different generation of diabase.

### 6.3 Structure

The metavolcanic rocks generally lack fabric, which makes orientation difficult to ascertain. More regional information indicates that the sequence is southeast striking and southwest dipping. In the area of the Au showing, an eastward deflection in stratigraphy occurs. This is outlined by observed geological contacts and shears. Conclusive evidence for the cause of this deflection is not available however it is possible that the nearby linear diabase to the southeast occupies a previous fault structure. Stratigraphic correlation across this diabase appears poor which may further support this interpretation.

### 6.4 Alteration and Mineralization

A late stage of carbonatization is represented as fracture filling calcite in all lithologies. Moderate ankerite development occurs proximal to the Au showing. Quartz veining and silicification is limited to the area around the showing. Sericitization is generally minor and within the felsic rocks. Chloritization occurs only locally.

Mineralization, outside of the area of the showing, is mainly limited to fine grained, disseminated pyrite and seldom exceeds 1%. It occurs mainly in carbonate filled fractures in mafic metavolcanics and diabase. Hematite was noted in one area in a carbonate fracture filled mafic unit.

### 6.5 "Au Showing" (Fig. 2)

The initial sample from this showing obtained in 1991 (Suchanek and Kent) returned 9,100 ppb Au from a grab sample. The

Felsic Debris Flow

Felsic Debris Flow

Intermediate Flow

Chloritic, Pyrite-bearing Mafic Tuff

Ankeritized  
Dacite  
Flow

Coarse grained  
Dacite

2M

65

70

406

403

402

401

404

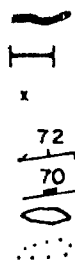
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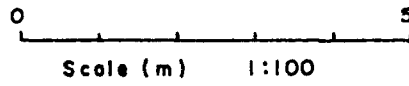
72

77

409



- Au-Asp-Py bearing quartz veinlet
- Chip Sample
- Grab Sample
- Strike & Dip of:
  - Shears
  - Joint Plane
- Stripped Area
- Outcrop Limit



Scale (m) 1:100

### Au Showing

Detailed Mapping & Sampling  
by C.S. Jan. 93

Figure 2 - Au Showing



sample was described as an arsenopyrite bearing, felsic metavolcanic. A strongly, ankeritic, weathered brown crust was pervasive throughout the small exposure uncovered at that time.

Upon stripping the showing, a 1 meter wide zone of highly ankeritized, fine grained dacite enveloped by a jointed felsic debris flow was uncovered. Narrow (10-20 cm), east striking, steeply dipping shears occur at the dacite wall rock contacts as well as within the debris flow unit. In two of these shears, there is a migration of narrow (1-3 cm), arsenopyrite-pyrite bearing quartz veinlets from wallrock into the shears. These veinlets were only realized after washing the exposure. The fresh surface of the vein material shows very impure, light grey-green, fine grained quartz with very subtle wallrock contacts. These fresh surface contacts become more evident over time as the ankerite in the host rock weathers but this recognition is very difficult just after a sample is broken since the vein material closely resembles its host. It was evident at this point that the auriferous unit here was in fact a quartz vein as opposed to the previously reported felsic unit.

Attempts to extend the stripping for more veinlet/shear exposure were hindered by deeper overburden. Windows were stripped in nearby outcrops however no additional structures were realized.

Sampling of the showing confirmed the presence of gold in the veinlet material and failed to provide any enrichment in the host rock or non-quartz bearing shears. The following table summarizes the results of this sampling. Sample locations are shown in Fig. 2.

Table I

Sample #	Description	Assay Au
401	Chip (0.5 m) - f.g. ankeritic dacite	4 ppb
402	Chip (0.5 m) - f.g. ankeritic dacite	19 ppb
403	Grab - qtz-asp veinlet in shear	0.29 oz/t (19600 ppm As)
404	Chip (0.5 m) - f.g. ankeritic dacite	90 ppb
405	Chip (0.7 m) - f.g. ankeritic dacite	130 ppb
406	Grab - shear in felsic debris flow	13 ppb
407	Grab - qtz-asp veinlet in shear	0.098 oz/t (7380 ppm As)
408	Grab - mafic tuff (10% f.g. Py)	43 ppb
409	Grab - felsic debris flow	7 ppb

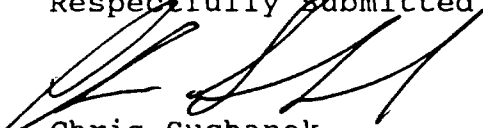
Prospecting over the remainder of the claim failed to provide any additional gold values. Subtly anomalous zinc values (254 and 236 ppm) occur near felsic-mafic contacts in the southeast. A similar result was identified during the more regional 1991 program.

#### 6.6 Conclusions and Recommendations

The gold-arsenopyrite bearing unit on the property was identified as narrow, impure quartz veinlets associated with narrow shears in felsic metavolcanics in contrast to the earlier reported felsic host rock. The lack of quartz veining outside of this area suggests that it is a local event. The role of the pronounced ridge of diabase immediately to the southwest is speculative. The deflection of stratigraphy in this area may be fold related while evidence is entirely lacking. The linear nature of the diabase is somewhat of an aberration from its spatial distribution elsewhere in the area suggesting a potential structural control of intrusion (i.e. fault). Faulting would account for stratigraphy deflection and poor correlation across the dike. Such a structure would provide a conduit for auriferous fluids to be deposited in adjacent dilatant zones in host rocks (i.e. shear zones).

Although the gold bearing veinlets are small and limited in exposed extent, their existence in an otherwise quartz vein barren area requires further investigation. Unfortunately, the potential west strike extension of the showing is covered by the pond and surrounding cedar swamp. The possible east extension has been prospected to the diabase revealing overburden constraints. Therefore, the next phase to evaluate this showing would be a series of short drill holes collared northwest of the auriferous veinlets. Ideally, the drilling would be done in the winter so that the potential west extension could be drilled from the frozen pond.

Respectfully Submitted



Chris Suchanek  
Geologist

**References**

- 1991 Suchanek, C. and Kent, G. Report on Reconnaissance Geological Mapping and Prospecting in the Shining Tree Area, Districts of Sudbury and Timiskaming, Ontario. Maps 1 to 6, scale 1:5000.

**Qualifications**

I, Chris Suchanek, graduated from the University of Toronto with a B.Sc., Geology Specialist Programme, in 1983. I have been working continually in the mineral exploration industry since graduation.

A handwritten signature in cursive script, appearing to read "Chris Suchanek". The signature is written in dark ink and is positioned below the typed text.

**Appendix I**  
**Sample Descriptions**  
**Churchill Project**

Churchill Project - Sample Descriptions

Sample #	Location	Description
401	Au Showing (L 0-2+00N)	0.5 m chip sample of ankeritized, massive fine grained dacite including sheared north contact
402	Au Showing	0.5 m chip sample of ankeritized, massive fine grained dacite including sheared south contact but no quartz vein material
403	Au Showing	Grab sample of 3 cm wide, light grey-green quartz vein containing 7 % very fine grained arsenopyrite and 3% very fine grained pyrite
404	Au Showing	0.5 m chip sample of ankeritized dacite 1.4 m east of sample 401
405	Au Showing	0.7 m chip sample of ankeritized dacite 1.4 m east of sample 402
406	Au Showing	Grab sample of rusty shear within felsic debris flow
407	Au Showing	Grab sample of 2 cm wide light grey-green quartz vein with 5 % arsenopyrite hosted by narrow shear
408	Au Showing	Grab sample of dark green mafic tuff with 10% very fine grained disseminated pyrite
409	Au Showing	Grab sample of felsic debris flow
410	L2W-2+95N	Grab sample of felsic debris flow showing patchy rusty ankeritized sections
411	L1W-2+40N	Grab sample of felsic debris flow with 1% fine grained disseminated pyrite and heavy carbonate
412	L1W-1+50N	Grab sample of felsic fragmental with an intermediate matrix showing a deep ankerite weathered rind and 1% fine grained pyrite
413	1+10W-0+50N	Grab sample of felsic debris flow with pockets of medium grained euhedral pyrite (1%)
414	L1W-3+80S	Grab sample of felsic lapilli tuff with chloritic matrix; 2% fine grained disseminated pyrite
415	1+05W-3+20S	Grab sample of felsic lapilli tuff containing 2% fine grained disseminated pyrite
416	BL-0+55W	Grab sample of felsic debris flow with 2% very fine grained pyrite
417	BL-0+25W	Grab sample of silicified mafic volcanic with 2-3% fine grained pyrite associated with carbonate along fractures
418	0+10E-1+75N	Grab sample of siliceous felsic flow with carbonate along fractures

**Appendix II**  
**Assay Results and Invoice**  
**Churchill Project**



# X-RAY ASSAY LABORATORIES

A DIVISION OF SGS SUPERVISION SERVICES INC.  
1885 LESLIE STREET • DON MILLS, ONTARIO M3B 3J4 • CANADA  
TEL: (416)445-5755      TELEX: 06-986947      FAX: (416)445-4152

## CERTIFICATE OF ANALYSIS

### REPORT 20354

TO: CHRIS SUCHANEK  
95 THORNCLIFFE PARK DRIVE, APT.3305  
TORONTO, ONTARIO  
M4H 1L7

CUSTOMER No. 2196

DATE SUBMITTED  
27-Aug-92

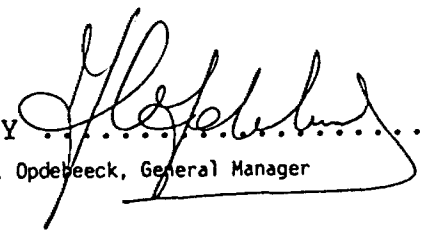
REF. FILE 13145-S7

Total Pages 2

18 ROCKS Proj. CHURCHILL

	METHOD	DETECTION LIMIT
AU PPB	FADCP	1.
AU OZ/TON	FA	.001
CO PPM	DCP	1.
NI PPM	DCP	1.
CU PPM	DCP	.5
ZN PPM	DCP	.5
AS PPM	FAA	1.
MO PPM	DCP	1.
AG PPM	DCP	.5
CD PPM	DCP	1.
PB PPM	DCP	2.

DATE 19-SEP-92

CERTIFIED BY 

Jean H.L. Opdeveeck, General Manager





**X-Ray Assay Laboratories**  
A Division of SGS Supervision Services Inc.

1885 Leslie St.  
Don Mills  
Ontario M3B 3J4  
Canada  
Tel: (416) 445-5755  
Fax: (416) 445-4152  
Telex: 09-986947

**Invoice To:**  
CHRIS SUCHANEK  
95 THORNCLIFFE PARK DRIVE, APT.3305  
TORONTO, ONTARIO  
M4H 1L7

**Invoice Date:** 21-Sep-92  
**Work Order No.:** 13145  
**Date Submitted:** 27-Aug-92  
**Report No.:** 20354  
**Customer No.:** 2196/SU0064  
**Your P.O. No.:**  
**Your Project No.:** CHURCHILL

**Submitted To:**  
CHRIS SUCHANEK  
95 THORNCLIFFE PARK DRIVE, APT.3305  
TORONTO, ONTARIO  
M4H 1L7

PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM		TYPE OF SAMPLES
			TORONTO		ROCK
QUANTITY	DESCRIPTION METHOD		CODE NUMBER	UNIT COST	AMOUNT
1. 18	8 EL PKG BY DCP (1-0)		7 0 0 0 0	5.50	99.00
2. 18	AS, MISED ACID DIGESTION		7 0 0 0 0	6.00	108.00
3. 18	AU, PPB		10 7 0 0 0	8.00	144.00
4. 2	AU ASSAY		10 7 0 0 0	9.00	18.00
5. 18	CRUSHING & MILLING		1 0 0 0 0	4.50	81.00
	GST REG NO. R105082572 APPLIED TO \$450.00				31.50
***** ADVANCED PAYMENT RECEIVED \$ 500.00 *****					
DISC. CHARGES		SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX/FAX	MINIMUM CHARGES
		OTHER	C.O.D.		SURCHARGE - RUSH SERVICE

ORIGINAL INVOICE

**TOTAL IN** >

CDN FUNDS \$ 481.50



Member of the SGS Group (Société Générale de Surveillance)

SAMPLE	AU PPB	AU OZ/TON	CO PPM	NI PPM	CU PPM	ZN PPM
401	4	--	44	75	85.0	178.
402	19	--	53	85	88.9	99.9
403	>1000	.290	11	23	48.9	64.6
404	90	--	13	24	86.9	115.
405	130	--	57	100	135.	101.
406	13	--	4	5	16.1	75.1
407	>1000	.098	3	5	8.4	19.3
408	43	--	6	2	10.3	152.
409	7	--	24	41	81.2	103.
410	54	--	18	45	16.4	101.
411	4	--	6	18	5.0	49.5
412	6	--	53	192	104.	87.3
413	5	--	7	16	10.9	44.5
414	6	--	4	5	9.4	254.
415	9	--	15	22	8.1	236.
416	<1	--	13	29	28.3	69.4
417	3	--	9	25	9.3	99.9
418	7	--	4	13	14.3	19.0

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

SAMPLE	AS PPM	MO PPM	AG PPM	CD PPM	PB PPM
401	128	4	.6	1	7
402	449	4	.6	1	9
403	19600	3	1.0	11	4
404	240	3	<.5	1	<2
405	578	4	.7	1	11
406	67	4	<.5	<1	<2
407	7380	4	<.5	4	3
408	285	8	<.5	1	<2
409	53	5	<.5	1	<2
410	57	5	.9	1	12
411	12	3	.6	<1	<2
412	12	4	.7	1	<2
413	74	3	.6	1	3
414	8	3	.7	<1	35
415	21	4	1.0	3	143
416	17	2	.8	1	7
417	7	5	.7	1	9
418	8	1	<.5	<1	<2



41P11SW8601 2.15170 CHURCHILL

900

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

Geoscience Approvals Section  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

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

Our File: 2.15170  
Transaction #: W9380.00209

January 10, 1994

Mining Recorder  
Ministry of Northern  
Development and Mines  
4 Government Road East  
Kirkland Lake, Ontario  
P2N 1A2

Dear Sir:

**RE: APPROVAL OF ASSESSMENT WORK ON MINING CLAIM L 1118351 IN CHURCHILL TOWNSHIP.**

**The Assessment Credits for GEOLOGY, section 12 of the Mining Act Regulations, as listed on the attached assessment work credit form, have been approved as of JANUARY 7, 1994.**

Please indicate this approval on the claim record sheets.

If you have any questions please call Clive Stephenson at (705) 670-5856.

Yours sincerely

Ron C. Gashinski  
Senior Manager, Mining Lands Section  
Mining and Land Management Branch  
Mines and Minerals Division

CDS/l

cc: Resident Geologist  
Kirkland Lake

✓ Assessment Files Office  
Toronto

**ASSESSMENT WORK CREDIT FORM**

**FILE NUMBER:** 2.15170  
**DATE:** JANUARY 7, 1994  
**TRANSACTION NUMBER:** W9380.00209

**RECORDED HOLDER:** CHRIS SUCHANEK  
**CLIENT NUMBER:** 198578  
**TOWNSHIP:** CHURCHILL

<b>CLAIM NUMBER</b>	<b>VALUE OF ASSESSMENT WORK DONE ON THIS CLAIM</b>	<b>VALUE APPLIED TO THIS CLAIM</b>	<b>VALUE ASSIGNED FROM THIS CLAIM</b>	<b>RESERVE</b>
L 1118351	\$ 5952.00	\$ 5952.00	\$ 0.00	\$ 0.00

Report of Work Conducted After Recording Claim  
Mining Act

DOCUMENT No. W9380-00209

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

2.15170

- Instructions:**
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) <b>CHRIS SUCHANEK</b>	Client No. <b>198578</b>
Address <b>3305-95 THORNCLIFFE PARK DRIVE</b>	Telephone No. <b>416-423-8777</b>
Mining Division <b>LARDER LAKE</b>	Township/Area <b>CHURCHILL TWP TORONTO, ONT.</b>
Dates Work Performed From <b>July 14 and Aug 9, 1992</b>	To <b>July 16 and Aug 25, 1992</b>
M or G Plan No. <b>G-3210</b>	

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

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	<b>GEOLOGICAL</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	

**RECEIVED**  
OCT 01 1993  
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs \$ **6069.30**

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>CHRIS SUCHANEK</b>	<b>3305-95 THORNCLIFFE PARK DRIVE</b>
	<b>TORONTO, ONTARIO</b>
	<b>M4H-1L7</b>

(attach a schedule if necessary)

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

*see attached for signature*

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	Recorded Holder or Agent (Signature)
--	------	--------------------------------------

**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  
**Chris Suchanek, 3305-95 Thorncliffe Park Dr., Toronto, Ont. M4H-1L7**

**416-423-8777 Aug 13/93**

Certified By Signature: *[Signature]*

**For Office Use Only**

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
			<b>RECEIVED</b> <b>LARDER LAKE</b> <b>MINING DIVISION</b> <b>AUG 30 1993</b>



# Report of Work Conducted After Recording Claim

Mining Act

Transaction Number  
**DOCUMENT No.**  
W9380-00209

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  - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
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  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) <b>CHRIS SUCHANEK</b>	Client No. <b>198578</b>
Address <b>3305-95 THORNCLIFFE PARK DRIVE</b>	Telephone No. <b>416-423-8777</b>
Mining Division <b>LARDER LAKE</b>	Township/Area <b>TORONTO, ONT. CHURCHILL TWP</b>
M or G Plan No. <b>G-3210</b>	
Dates Work Performed From: <b>July 14 and Aug. 9, 1992</b> To: <b>July 16 and Aug 25, 1992</b> , respectively	

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

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	<b>GEOLOGICAL</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	

RECEIVED  
LARDER LAKE  
MINING DIVISION  
SEP 23 1993

TIME **11:00 AM**

Total Assessment Work Claimed on the Attached Statement of Costs \$ **6069.20**

**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>CHRIS SUCHANEK</b>	<b>3305-95 THORNCLIFFE PARK DRIVE</b>
	<b>TORONTO, ONTARIO</b>
	<b>M4H-1L7</b>

(attach a schedule if necessary)

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

For Signature Only:

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>Sept 17/93</b>	Recorded Holder or Agent (Signature) 
--	---------------------------	--

**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>Chris Suchanek, 3305-95 Thorncliffe Pk Dr. Toronto, Ont. M4H-1L7</b>	Date <b>Aug 13/93</b>	Certified By (Signature) 
Telephone No. <b>416-423-8777</b>		

**For Office Use Only**

Total Value Cr. Recorded	Date Recorded <b>August 30/93</b>	Mining Recorder	Received Stamp
	Deemed Approval Date	Date Approved	<b>RECEIVED LARDER LAKE MINING DIVISION AUG 30 1993</b>

TIME **12:30 pm**







Statement of Costs  
for Assessment Credit

État des coûts aux fins  
du crédit d'évaluation

Mining Act/Loi sur les mines

DOCUMENT NO.  
Transaction  
W9380-00209

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 Geological Report	3600. <sup>00</sup> 400. <sup>00</sup>	4000. <sup>00</sup>
	Supplies Used Fournitures utilisées	Type Tap & fil, flagging tape, lumber copies, drafting supplies	232. <sup>05</sup>
Equipment Rental Location de matériel	Type Boat + Motor Fire Pump	579. <sup>60</sup> 246. <sup>10</sup>	825. <sup>70</sup>
	Total Direct Costs Total des coûts directs		5057. <sup>75</sup>

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 Road	132. <sup>00</sup>	
	Assay Cost	481. <sup>50</sup>	
Food and Lodging Nourriture et hébergement		581. <sup>23</sup>	
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			1194. <sup>73</sup>
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			1011. <sup>55</sup>
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)			6069. <sup>30</sup>

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 présentés.

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	Évaluation 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 The Recorded Holder I am authorized

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 le rapport de travaux déposé.

Et qu'à titre de The Recorded Holder je suis autorisé

à faire cette attestation

*[Signature]*  
Aug 3/93

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M + S - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

12 SURFACE + MINING RIGHTS WITHDRAWN

SECT. 36/80 ORDER NO. W.9/86-NR  
O-L14-90 NER OPENS W.9/86NR

13 SURFACE + MINING RIGHTS WITHDRAWN

SECT. 36/80 ORDER NO. W.13/86-NR  
O-L12/89 NR OPENS W.13/86NR

14 SURFACE AND MINING RIGHTS NOT OPEN TO TAKING DUE TO PENDING PROCEEDINGS - RESUBMISSION NO.

15 SURFACE AND MINING RIGHTS NOT OPEN TO STAKING SUGGESTION 3M - PENDING PROCEEDINGS

16 PENDING PROCEEDINGS CANCELLED 10:45 AM FEB. 27, 1990

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.

CIRCULATED AUGUST 17/88

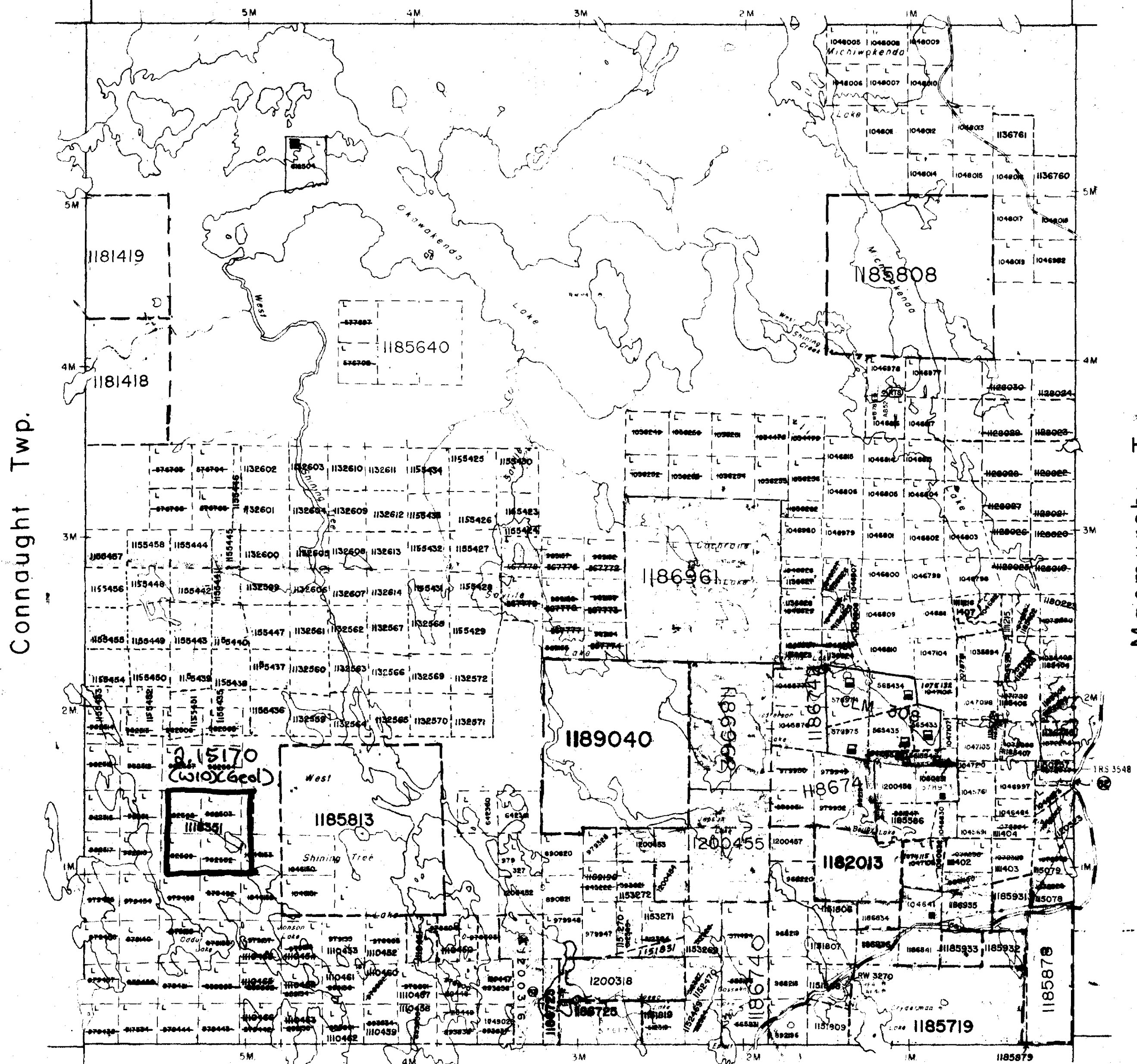
NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP/AREA FALLS WITHIN THE SHININGTREE MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS

THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT - P.O. BOX 129  
LOW AVENUE  
GOGAMA, ONT.  
POM IWO  
705-894-2000

GEOLOGY REFERENCE COBALT  
RESIDENT GEOLOGIST

Kelvin Twp.



Asquith Twp.

COPY OF THIS MYLAR  
ARCHIVED DEC 16/91  
COPY OF THIS MYLAR  
ARCHIVED DEC 09/92

LEGEND

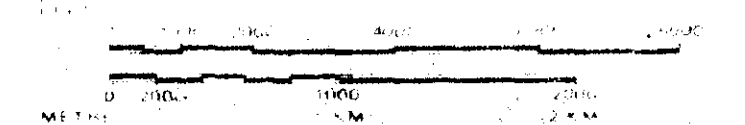
- HIGHWAY AND ROUTE NO.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS BASE LINES
- LOTS MINING CLAIMS PARCELS ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RAILROAD
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FRESH WATER
- SUBDIVISION OF LANDS
- RESERVATIONS
- ORIGINAL STAKING
- MARSH OR MUD
- MINES
- TRAVERSE POINTS
- REMOTE TOURIST SETUPS

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
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	○
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PART OF SECTION 36/80 ORDER NO. W.9/86-NR AND W.13/86-NR ARE NOT OPEN TO TAKING DUE TO PENDING PROCEEDINGS.

SCALE 1 INCH = 40 CHAINS



TOWNSHIP

CHURCHILL

M.N.R. ADMINISTRATIVE DISTRICT

GOGAMA

MINING DIVISION

LARDER LAKE

LAND TITLES / REGISTRY DIVISION

SUDBURY



MINISTRY OF  
NORTHERN DEVELOPMENT  
AND MINES

Ontario

Number

G-3210

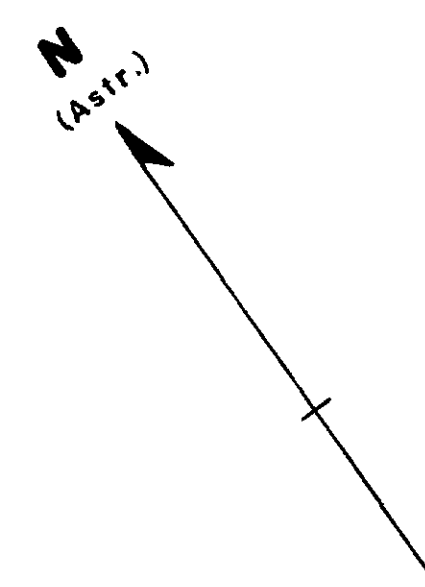
DATE OF ISSUE

JUG 31 1988

LARDER LAKE  
MINING RECORDER'S OFFICE

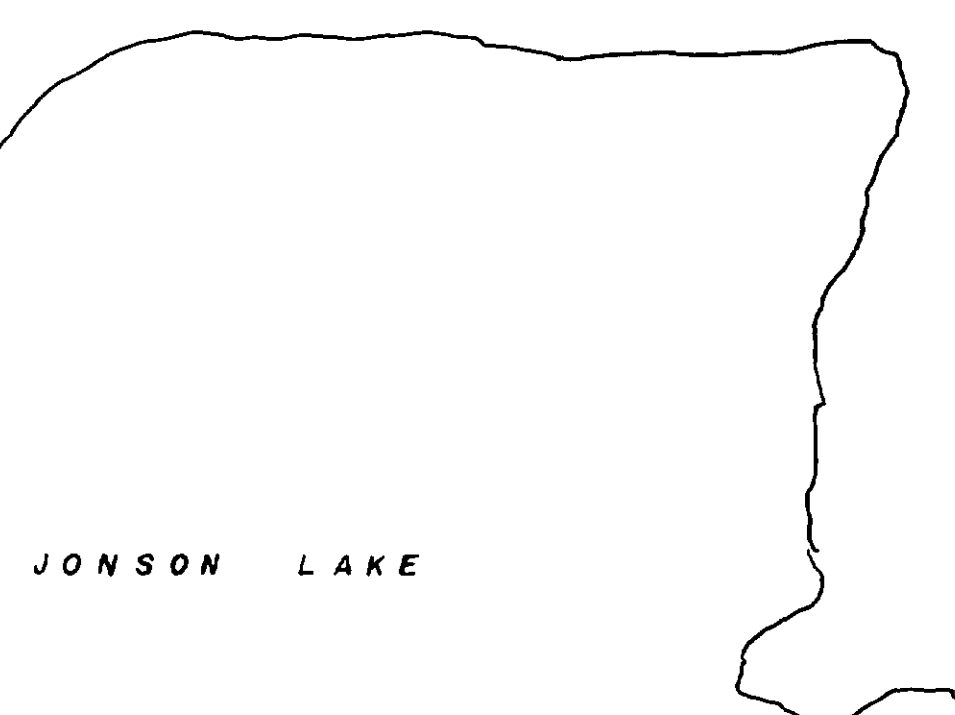
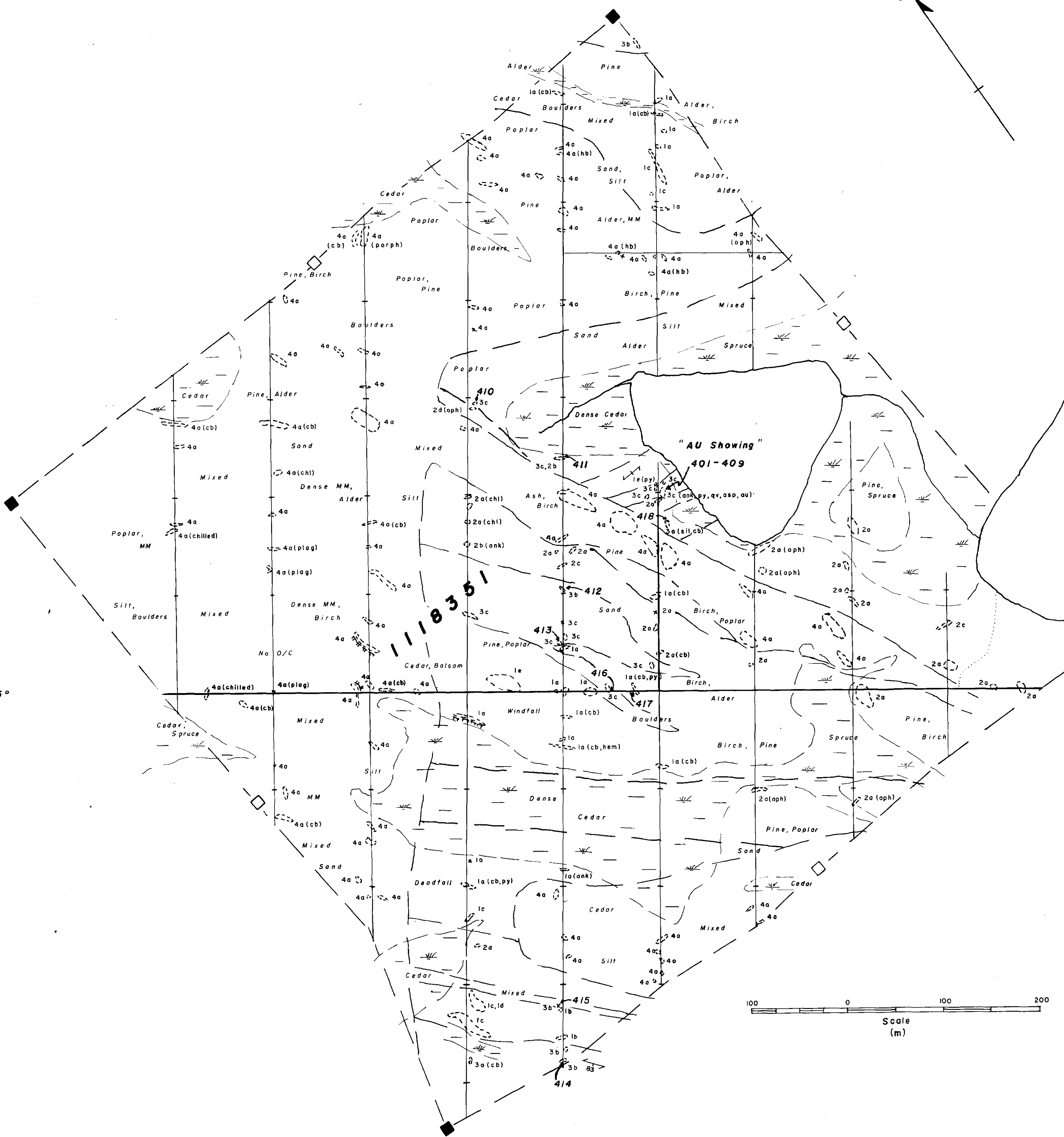


41P115W8601 2.15178 CHURCHILL



6 N  
5 N  
4 N  
3 N  
2 N  
1 N  
B. L. O — Az. 125°  
1 S  
2 S  
3 S  
4 S

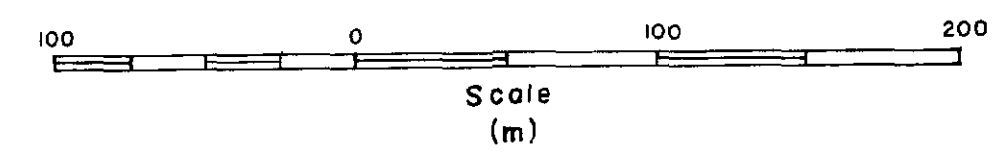
LSW L4W L3W L2W L1W L0 L1E L2E L3E



LEGEND		CODES	
4	Mafic Intrusives	ank	ankerite
	4a diabase	aph	aphanitic
3	Felsic Metavolcanics	asp	arsenopyrite
	3a massive rhyolite flow	cb	calcite
	3b lapilli tuff	chl	chlorite
	3c debris flow/fragmental	hb	hornblende
2	Intermediate Metavolcanics	hem	hematite
	2a massive flow	oph	ophitic texture
	2b andesite - dacite	plag	plagioclase
	2c porphyritic flow	py	pyrite
	2d tuff	qv	quartz veinlet
1	Mafic Metavolcanics	sil	silicified
	1a massive flow	MM	mountain maple
	1b andesite-basalt flow		
	1c coarse grained flow		
	1d porphyritic flow		
	1e tuff		

SYMBOLS			
(dashed line)	outcrop	(scalloped line)	scarp
(x)	small outcrop	(solid line)	cut line
(dashed line with dots)	inferred geological contact	(dashed line with dots)	flagged line
(arrow with dip)	strike and dip of foliation	(dotted line)	trail
(415)	sample no. and location	(black square)	corner post
(swamp symbol)	swamp	(open square)	line post



2.15170

CHURCHILL TWP. LARDER LAKE MINING DIVISION		
Churchill Project Geological Survey		
N.T.S. 41P/II	Scale 1:2,500	Date Jan. 1993
Work by C. Suchanek		Map No. 1

