



52N07SE9919 2.14819 SHABUMENI LAKE

010

2.14819

GEOLOGICAL REPORT

ON THE

SWAIN LAKE GOLD/BASE METAL PROSPECT

SHABUMENI LAKE AREA

NORTH-WESTERN, ONTARIO

NTS 52 N 7 SE

RECEIVED

NOV 30 1992

MINING LANDS BRANCH

NOV 25 1992

November 14, 1992

*Qual.*  
*2.7760*  
R. Hodgson, B.Sc., B.Ed.  
Geologist



52N07SE9919 2.14819 SHABUMENI LAKE

010C

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Map; Scale 1:2500                      (in rear pocket)

## INTRODUCTION

This report describes the results of a geological mapping and sampling program carried out over a ten (10) claim gold/base metal prospect located in the Shabumeni Lake Area of north-western Ontario. The work was carried out during the period Aug. 10 - Sept. 7 1992; on a chainsawed grid which covers the entire property with 30 meter spaced lines.

A detailed description of the principal rock types encountered during the course of the survey is provided, along with a record of the character and dimension of veins and mineralized zones. Recommendations for further development of the property are also made. The survey was conducted by Rand Hodgson, geologist, of 1849 E. 2nd Ave., Vancouver, B.C.

## PROPERTY DESCRIPTION, LOCATION AND ACCESS

The property is referred to as the "Guest Prospect" in government publications. It consists of ten contiguous unpatented mining claims located at the north-eastern edge of Swain Lake on the Shabumeni Lake Area claim map G-1881; Red Lake Mining Division; NTS Reference # 52-N-7 SE

Swain Lake is located approximately 90 kilometres north-east of the town of Red Lake. Access is by float-equipped aircraft from Red Lake or Ear Falls, or by boat through the Woman Lake water system.

The claims are registered in the name of Dennis Smith of Box

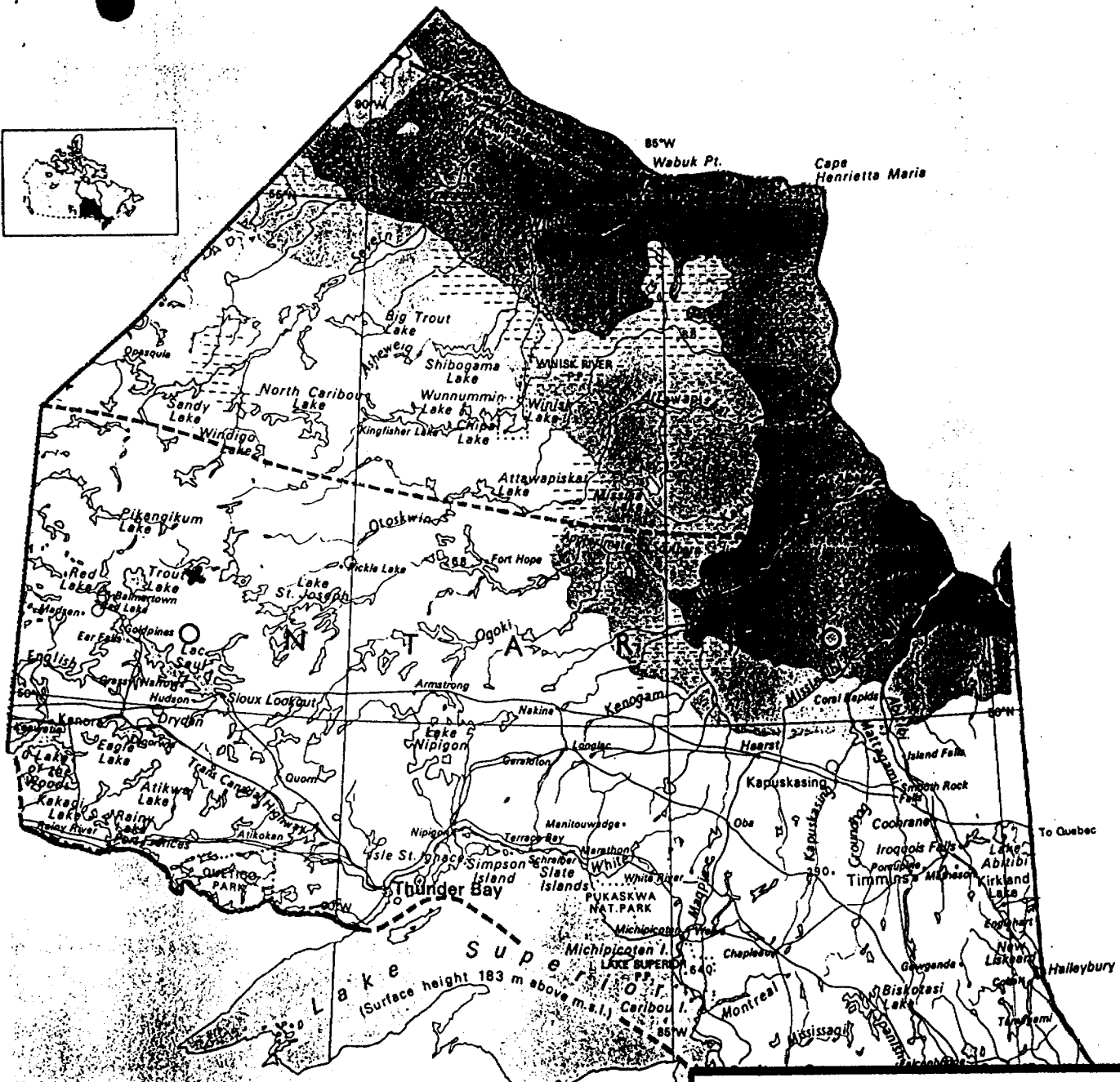
663, Red Lake, Ontario. They are jointly owned by Smith, Gerald Desmeulles, also of Red Lake, and Rand Hodgson of Vancouver, B.C. The claims schedule, containing a list of the claims and their assessment work due dates, is provided in the Appendix.

#### TOPOGRAPHY AND OVERBURDEN

All bedrock is Early Precambrian in age, part of the Birch/Uchi Lakes metavolcanic - metasedimentary belt within the Uchi Subprovince. A major north east trending deformation zone, the "Swain Lake Deformation Zone" (S.L.D.Z.) passes close to the property to the north-west. The rocks to the south-east of this deformation zone (including those on the property) are predominantly metasedimentary.

"The Guest prospect is located about 800 m south-east of the S.L.D.Z. and is 1.2 km west of a north-west trending fault extending through Bobarris Lake. A strong shear zone trends 060° to 090° along a contact between mafic metavolcanic flows and intermediate pyroclastic rocks immediately north of the Guest prospect.

East trending mafic metavolcanic flows intercalated with interflow metasediments consisting of siliceous tuff and chert-magnetite iron formation, are overlain by intermediate lapilli tuff, tuff breccia and feldspar crystal tuff (Beakhouse et al. 1989; Beakhouse 1989). The intermediate pyroclastic rocks were previously interpreted as metasediments by Asarco Exploration Co.

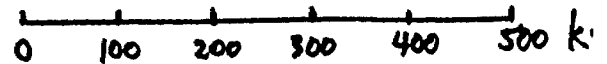


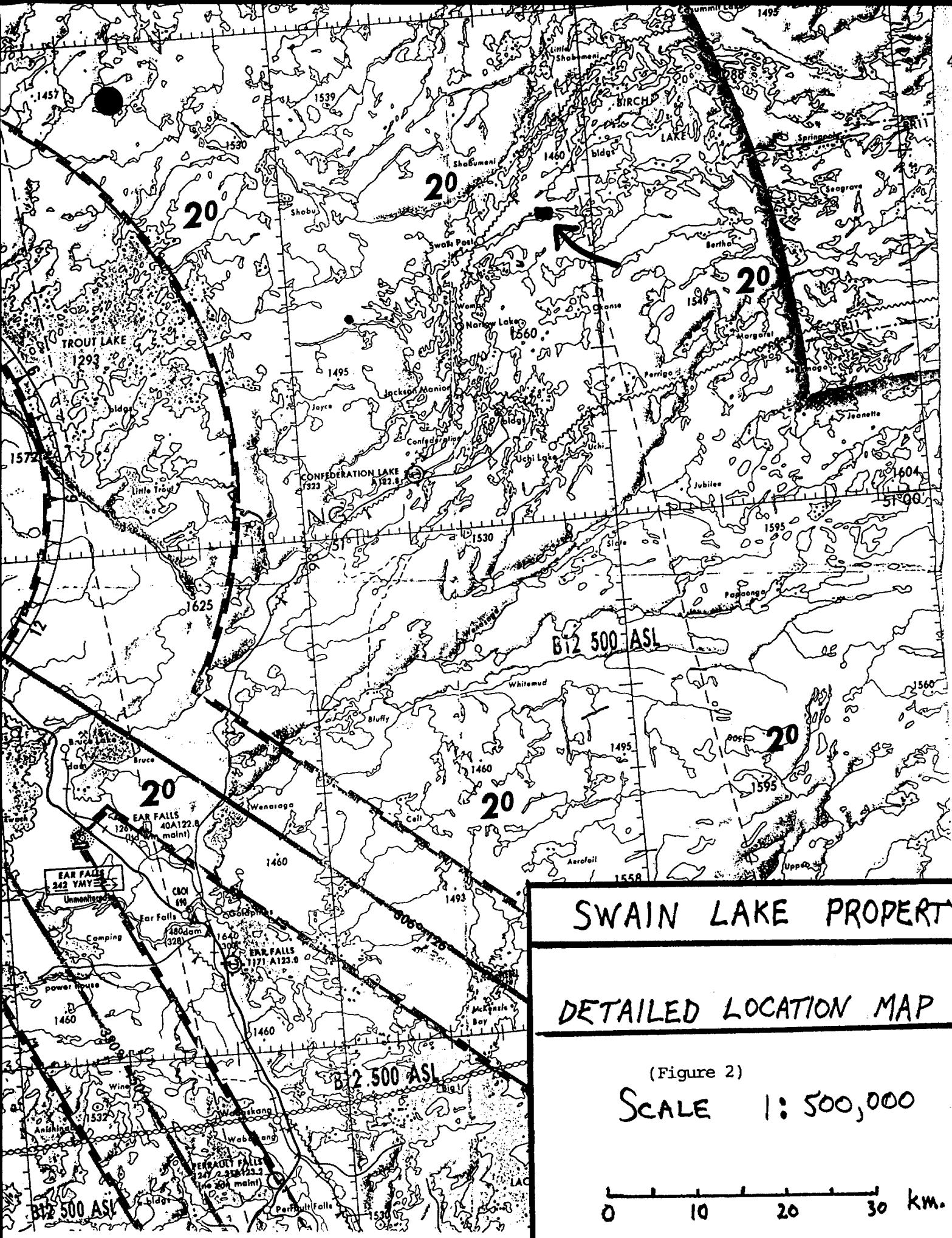
**SWAIN LAKE PROPERTY**

**PROPERTY LOCATION MAP**

(Figure 1)

SCALE 1 : 8,000,000



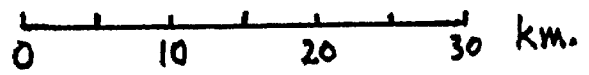


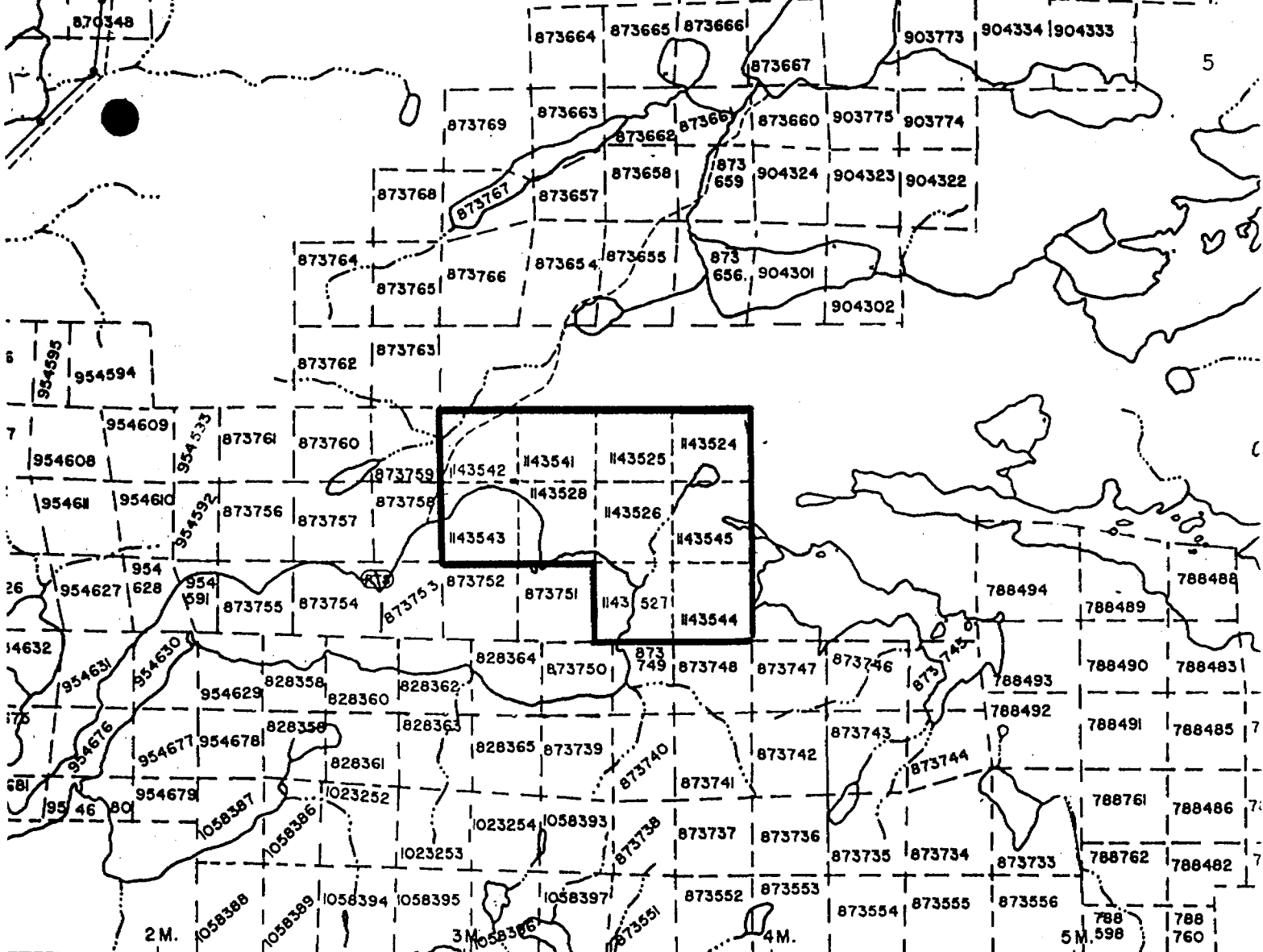
**SWAIN LAKE PROPERTY**

**DETAILED LOCATION MAP**

(Figure 2)

SCALE 1: 500,000





HONEYWELL TWP.

FOR STATUS REFER TO TWP PLAN No.

SWAIN LAKE PROPERTY

CLAIM MAP

(Figure 3)

SCALE 1 inch = 40 chains  
or 1 inch = 800 m.

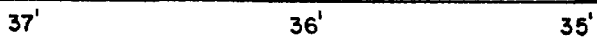
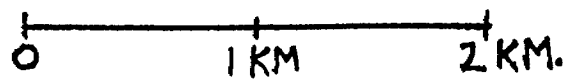


Figure 4 -

TABLE OF LITHOLOGIC UNITS

## Phanerozoic

## Cenozoic

## Quaternary

## Pleistocene and Recent

- glacial swamp, lake and stream deposits

*unconformity*

## Precambrian

## Archean

## Felsic to Intermediate Intrusive Rocks

- granite, grandiorite, tonalite, monzonite, porphyry, felsite, etc.

*intrusive contact*

## Mafic and Ultramafic Intrusive Rocks

- diorite, gabbro, peridotite, etc.

*intrusive contact*

## Chemical Metasedimentary Rocks

- chert, ironstone, carbonate, bedded sulphides, etc.

## Clastic Metasedimentary Rocks

- conglomerate, sandstone, siltstone, shale, arenite, wacke, argillite, etc.

## Felsic Metavolcanic Rocks

- flows, tuffs, tuff-breccias, crystal tuffs, lapilli, agglomerate, etc.

## Mafic Metavolcanic Rocks

- massive, pillowed, brecciated, variolitic, amygdaloidal, hyaloclastites, chlorite schists, tuffs, etc.



of Canada Ltd. Interflow iron formation is interlayered with chloritic tuffs and jasper. The metavolcanic rocks are intruded by hornblende syenite and quartz porphyry dikes and by the Swain Lake stock of diorite composition which is amphibole- and feldspar-phyric (Beakhouse et al. 1989; Beakhouse 1989). The metavolcanic rocks at the Guest prospect are part of the Cycle III sequence described by Thurston (1985, 1986)."

#### SUMMARY OF PREVIOUS EXPLORATION AND DEVELOPMENT

"1963: Staked by Gunnex Ltd., but exploration work was concentrated on the Swain Lake Cu-Co occurrence on the south shore of Swain Lake.

1965-1966: Staked by A.L. Guest Prospecting Grubstake and optioned to Asarco Exploration Co. of Canada Ltd. in joint venture with Noranda Explorations (The Northern Miner, July 7, 1966). Asarco conducted ground magnetic, electromagnetic and induced polarization geophysical surveys, geological mapping and diamond drilled 12 packsack drill holes totalling 160 m.

1969-1970: Vanco Exploration of Ontario Ltd. flew airborne magnetic, electromagnetic and gamma-ray spectrometer surveys over the property and conducted geological mapping and ground magnetic and self-potential geophysical surveys.

1974: St. Joseph Exploration Ltd. diamond drilled 3 holes totalling 556 m on claims KRL 368576 and 3685677.

1983-1984: Labrador Exploration (Ontario) Ltd. staked the Guest prospect which they referred to as the Signal claim group. The company conducted magnetic and horizontal loop geophysical surveys and diamond drilled 2 holes totalling 264 m.

1987: Explorco Properties Inc. conducted magnetic and electromagnetic geophysical surveys, as well as geological mapping and rock, soil and humus geochemical surveys.

- 1989: Noranda Exploration Co. Ltd. conducted prospecting and lithogeochemical sampling on the property.
- 1991: The guest property was staked by D. Smith."\*\*

#### PROPERTY GEOLOGY AND STRUCTURE

Detailed mapping by the author has resulted in a map which is generally in agreement with the most recent government work. Mafic flows predominate in the southern part of the property and are overlain by a felsic pyroclastic unit to the north. Sulphide enrichment occurs within a sheared metasedimentary unit at the contact between the mafic flows and the felsic pyroclastics. The metasedimentary unit exhibits strong shearing and consists of intercalated chert, iron formation, and chlorite schists (mafic tuffs?). It contains pods, lenses, and stringers of pyrite, chalcopyrite, pyrrhotite, and minor sphalerite with associated sericite, carbonate, ankerite, and gold.

This sediment/shear zone is 200 meters thick and strikes the same as the regional strike - that being approximately 100°.

There is strong evidence to suggest the presence of a north-east trending thrust fault which passes through the lake at the north end of claim 1143545. At the south-west corner of the lake there are several occurrences of fault breccia with ankerite, biotite, and epidote. Also at this location (on the shoreline) is an outcrop of feldspar crystal tuff/lapilli tuff which is specifically diagnostic of the felsic pyroclastic unit normally found 150 meters to the north - see accompanying map. This would

also explain the apparent discontinuity of the iron formation/sedimentary unit.

The mafic flows to the south are generally fine-grained, pillowed, and silicified. Tourmaline and garnet are sometimes found in pillow selvages. In amygdaloidal flows, graded vesicle beds indicate tops to the north. Gabbros and quartz-feldspar porphyrys are also found in this unit, possibly reflecting proximity to the Swain Lake Pluton which outcrops at the southern extremity of the property.

The felsic pyroclastic unit is very distinct and consistent. The textures are white feldspar crystal tuffs, lapilli tuffs, and agglomerates. Sericitic alteration is common, which becomes dominant as the unit grades into the sericitic shear zone on the south side of Bobarris Lake (400 meters east of the property).

#### MINERALIZATION

Sulphide mineralization is predominantly associated with the metasedimentary unit between the mafic and felsic volcanics and locally within the felsics. The original Guest Occurrence consisted of the North showing (12-13 N, 160-170 W, on the grid) and the South showing centred on 10+50 N, 157 W on the grid. The highest recorded results from these showings are as follows:

##### South Showing

- 4% Cu across 1.4 ft. and 2.15% Cu across 6.3 ft. from pack-sack drilling (Asarco)
- grab sample of 0.22 ounces per ton Au. (Labrador)
- channel sample of 0.06 ounces per ton Au across 5 ft. (Noranda)

North Showing

- grab sample of 0.9 ounces per ton Au (Noranda)
- diamond drilling - 0.11% Cu and 0.08 o.p.t. Au across 5 ft. (St. Joe)

In addition to these, a significant new shear zone has been discovered (during this survey) in the felsic pyroclastic unit to the north. Located at 15 N on line 146 W of the grid, the zone is at least 10 meters thick and consists of a series of 10-20 cm thick quartz-carbonate-sulphide veins and stringers within a sheared sericitic schist. Several grab samples taken at different locations across strike within the zone indicate consistent high anomalous gold values up to 5280 ppb in the quartz and 1770 ppb in the sericite schist. Similar sericite schists in intermediate pyroclastics on the south side of Bobarris Lake (12 N, L 122 W on grid) gave consistent results up to 6,750 ppb.

A soil sample survey done by Explorec in 1987 indicates consistent exceptionally high gold values commonly up to 300 ppb spread out all across the property's different lithologies. One soil sample assayed 2690 ppb Au (13+50 N, 140 W)

CONCLUSIONS AND RECOMMENDATIONS

The property comes highly recommended for the following reasons:

- 1.) Consistently high gold values in soil (up to 300 ppb and above) throughout the property.

- 2.) Presence of several faults and gold bearing shear zones with economic grade mineralization intersecting with the main regional Swain Lake Deformation Zone.
- 3.) Numerous unexplained V.L.F. electromagnetic conductors within both the mafic flows and the felsic pyroclastics present drill targets for both gold and base metal mineralization.

Four drill targets have been isolated based on a compilation of previous geophysical surveys and the author's findings. These are located on the map at the following locations on the grid:

- i) 11+50 N, L130W
- ii) 8 N, L15W
- iii) 13 N, L126W
- iv) 15 N, L146W

There is no doubt that detailed ground geophysics will outline more drill targets from the many known V.L.F. conductors on the property.

Respectfully submitted,



Rand G. Hodgson, B.Sc., B.Ed.

Date of Signature:

Nov 14/92

REFERENCES

- \* Parker, J.R. and Atkinson, B.T., O.G.S. Open File Report # 5835, 1992 Queens Printer for Ontario, Toronto, pg. 308.
- \*\* Parker, J.R. and Atkinson, B.T., Ibid., pg. 309.

BIBLIOGRAPHY

- 1989 Beakhouse, G.P., Forsyth, D.M., Scott, K.V., and Wallace, H., Precambrian Geology of the Western Birch Lake Area, Southern Half, District of Kenora, O.G.S. map, pg. 3118.
- 1981 Thurston, P.C., Jackson, M.C., and Pirie, I., Precambrian Geology of the Birch Lake Area, District of Kenora, O.G.S. map, pg. 2387.

Claims Schedule

<u>CLAIM #'S</u>	<u>WORK DUE DATES</u>
1143524	April 12, 1993
1143525	April 12, 1993
1143526	" " "
1143527	" " "
1143528	" " "
1143541	" " "
1143542	" " "
1143543	" " "
1143544	" " "
1143545	" " "



## GEOCHEMICAL ANALYSIS CERTIFICATE

Rand Hodgson File # 92-3423

Box 65372 Station F, Vancouver BC V5N 5P3



Appendix II - Assay Certificate

SAMPLE#	Au* ppb
RH-1✓	57
RH-2✓	16
RH-3✓	51
RH-4✓	6750
RH-5	2400
RH-6✓	4580
RH-9	230
RH-10✓	130
RH-11✓	33
RH-12✓	320
RH-13✓	620
RH-14✓	1770
RH-15✓	1280
RH-16✓	1710
RH-17✓	3480
RH-18	760
RH-19✓	900
RH-20✓	5240
RH-21✓	400
RH-22✓	36
RH-23✓	2500
RH-24	4310
RH-25✓	20
RH-26✓	26
RE RH-22✓	53
RH-27✓	1520
RH-28✓	9230
RH-29✓	200
RH-163W 12N✓	16
STANDARD AU-R.	530

SAMPLE TYPE: ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 30 1992 DATE REPORT MAILED: *Oct 5/92* SIGNED BY: *Chung* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



# Swain Lake Property

1991 Assays

## Assay List

\* All are rock grab samples.

- 1.) RH-1 - chert with pyrite - location L159 W., 13+75 N. or grid. - 0.08 oz. per ton. Au.
- 2.) RH-2 - 146 W., 15 N. - quartz vein with pyrite - 750 ppb Au.
- 3.) RH-3 - 146 W., 15 N - sericite schist - 450 ppb Au.
- 4.) RH-4 - 165 W., 13 N - quartz carbonate vein from edge of north shear zone. py.

## Earlier Samples - for Cu. -

South showing 156 W, 25 m. N.

- 5.) - 282275 - basalt with mag + cpy. - 0.69% Cu.
- 6.) - 282276 - " " " " - 5.4% Cu.
- 7.) 282276 - " " " " - 500 ppb. Au.



Ontario



52N07SE9919 2.14819 SHABUMENI LAKE

900

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

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

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

February 24, 1993

Our File: 2.14819  
Transaction #W9220.00044

Mining Recorder  
Ministry of Northern Development  
and Mines  
Ontario Government Building  
Box 324  
Red Lake, Ontario  
POV 2M0

Dear Sir/Madam:

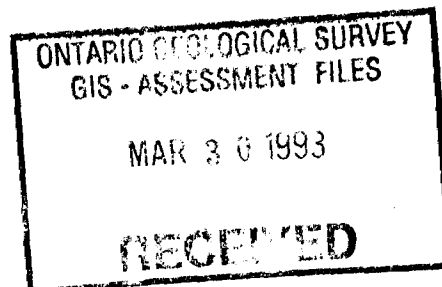
**Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS  
KRL.1143524 ET AL. IN THE SHABUMENI LAKE AREA**

The deficiencies in the original submission have been rectified.

The assessment work credits for the Geological Survey and Assays filed under Sections 12 and 17 of the Mining Act Regulations have been approved as outlined on the attached Assessment Work Credit Form. The approval date is February 23, 1993.

Please note that the "Values of Assessment Work Done" and "Applied" have been approved at a higher amount on all the claims.

I am enclosing the correspondence from the client requesting how the work is to be applied on each claim. A revised Statement of Costs is also enclosed for your records.



.../2

February 24, 1993  
Red Lake Mining Recorder

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

Yours sincerely,



Mark Hall  
(Acting) Senior Manager, Mining Lands Branch  
Mines and Minerals Division

LJ/jl  
Enclosures:

cc: Resident Geologist  
Red Lake, Ontario

✓ Assessment Files Library  
Toronto, Ontario

**ASSESSMENT WORK CREDIT FORM**

**FILE NUMBER: 2.14819**  
**DATE: February 24, 1993**  
**RECORDER'S REPORT NUMBER: W9220.044**

**RECORDED HOLDER: Dennis Smith**

**CLIENT NUMBER: 195326**

**TOWNSHIP OR AREA: Shabumeni Lake Area**

<b>CLAIM NUMBER</b>	<b>VALUE OF WORK DONE ON THIS CLAIM</b>	<b>VALUE APPLIED TO THIS CLAIM</b>
KRL1143524	1326	1326
1143525	1326	1326
1143526	1326	1326
1143527	1326	1326
1143528	1326	1326
1143541	1326	1326
1143542	1326	1326
1143543	1326	1326
1143544	1326	1326
1143545	<u>1326</u>	<u>1326</u>
	13,260	13,260



Ministry of Northern Development and Mines

# Report of Work Conducted After Recording Claim

Mining Act

Transaction Number

W9220.00044

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.

2.14819

- 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)	DENNIS SMITH	Client No.	195320
Address	Box 663, RED LAKE, ONTARIO	Telephone No.	807-7272306
Mining Division	RED LAKE	Township/Area	SHABUMENI
		M or G Plan No.	G-1881
Dates Work Performed	From: Aug 10 1992	To: Sept. 7 1992	

Work Performed (Check One Work Group Only) *ALSO AUG 20-30 1991* **RECEIVED**

Work Group	Type	Date
Geotechnical Survey	GEOLOGICAL MAPPING	FEB 23 1993
Physical Work, including Drilling		
Rehabilitation		
Other Authorized Work	LINE CUTTING	NOV 30 1992
Assays	ROCK SAMPLES	MINING LANDS BRANCH
Assignment from Reserve		

Total Assessment Work Claimed on the Attached Statement of Costs \$ ~~13,260~~ \$13,260

**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
RAND HODGSON	Box 65372, Station F, VANCOUVER V5N5P3 tel. 604 254 3115
Author of Report - and - did the work	

(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	Recorded Holder or Agent (Signature)
	NOV. 14/92	<i>[Signature]</i>

RAND HODGSON - agent of Dennis Smith.

**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		
Rand Hodgson - as above - same address -		
Telephone No.	Date	Certified By (Signature)
604-254-3115	NOV. 14/92	<i>[Signature]</i>

**For Office Use Only**

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp NOV 25 1992 RED LAKE MINING DIV
<del>10,000</del> \$13,260	Nov. 25/1992	<i>[Signature]</i>	
	Deemed Approval Date	Date Approved	
	Feb. 24, 1993		
	Date Notice for Amendments Sent		





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 8A5, telephone (705) 870-7284.

2.14819

- 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) DENNIS SMITH	Client No. 195320
Address Box 663, RED LAKE, ONTARIO	Telephone No. 807-7272306
Mining Division RED LAKE	Township/Area SHABUMENI
	M or G Plan No. G-1881
Dates Work Performed From: Aug 10 1992 To: Sept. 7 1992	

Work Performed (Check One Work Group Only) ALSO AUG 20-30 1991

Work Group	Type
Geotechnical Survey	GEOLOGICAL MAPPING
Physical Work, including Drilling	
Rehabilitation	RECEIVED
Other Authorized Work	LINE CUTTING NOV 30 1992
Assays	ROCK SAMPLES MINING LANDS BRANCH
Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ 10,000.00

**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
RAND HODGSON	Box 65372, Station F, VANCOUVER
	V5N5P3
	tel. 604 254 3115
Author of Report - and - did the work	

(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 Nov. 14/92	Recorded Holder or Agent (Signature) <i>[Signature]</i>
--	--------------------	--

RAND HODGSON agent for Dennis Smith.

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 Rand Hodgson - as above - same address -		
Telephone No. 604-254-3115	Date Nov. 14/92	Certified By (Signature) <i>[Signature]</i>

For Office Use Only

Total Value Cr. Recorded \$ 10,000.00	Date Recorded Nov. 25/1992	Mining Recorder <i>[Signature]</i>	Received Stamp RECEIVED NOV 25 1992 RED LAKE MINING DIV
	Deemed Approval Date Feb. 24, 1993	Date Approved	
	Date Notice for Amendments Sent		





# ● Statement of Costs.

## Direct Costs

Wages -	$\$250 \times 35 \text{ km} =$	$\$8750$
Assays	35 samples →	350
Boat Fuel	→	50
Camp Supplies	→	200
Rental Boat/Motor	→	850
Rental Camp Equip	→	850
	total direct →	<u>11,050</u>

## Indirect

food & lodging	1500
truck	1800
mob./demob.	1500
aircraft fuel and related costs	1500

6300 max 20% = \$2,210

Total Expenses claimed → \$13,260

Total 10 claims - 1 claim \$1,326 dollars  
on each claim. - see enclosed copies of original  
work report - amended at proper places.  
Certificate → over →

RECEIVED

FEB 23 1993

MINING LANDS BRANCH

# THE CANADIAN SPACE AGENCY SEEKS ASTRONAUTS

## Canadian Astronaut Program

The Canadian Astronaut Program was established to train and maintain a corps of astronauts to conduct experiments on board NASA's space shuttles.

- Since its creation in 1983 with the selection of six astronauts, it has acquired a reputation for excellence in the international space community.
- Before the end of 1992, three Canadian astronauts will have flown on missions in which they conducted experiments on behalf of investigators in Canada, the USA and Europe.

Before the end of the decade, the international space station Freedom will be in orbit and our participation in that program requires the support of Canadian astronauts.

- Canadians will serve on board the space station not only as system operators but will also continue to carry out research and development activities in space on behalf of scientists and engineers in industry, universities and government laboratories.

## Exciting Career Opportunities

The Canadian Space Agency is currently recruiting astronauts to participate in the Canadian Astronaut Program as Mission Specialists and Payload Specialists.

- Mission Specialists ensure the operation of orbiter systems, including the Canadarm used for the deployment and retrieval of payloads in orbit. They are also trained for Extra Vehicular Activity (such as spacecraft repair) and the operation of scientific equipment.
- Payload Specialists are astronauts whose primary responsibility is to conduct experiments in space which require substantial knowledge of the science involved.
- Canadian astronauts may be assigned to either of these duties and to space station crew duties.

Additional positions for engineers and scientists may also be available within the Canadian Space Agency.

## Qualifications

The candidates must be Canadian citizens and have at least a Bachelor's degree from a recognized university in either engineering, physical science, biological science, medicine or mathematics.

- To be considered, they must also have a minimum of three years of related professional experience after graduation. An advanced degree could compensate for years of practical experience.
- Because astronauts have to work under difficult physical and psychological conditions, applicants must be willing to provide personal and medical information and to undergo very demanding physical and psychological examinations. These will be in accordance with the requirements of the Canadian Space Agency, NASA and the other international partners of the Space Station Freedom Program.
- As astronauts participate in many public events, good communication and presentation skills are necessary.

All positions will be located in the greater Montreal area. In addition, successful candidates will be required to work in Ontario until the Agency's new facilities are completed, scheduled for 1993.

To apply, send your résumé before February 3, 1992 to the following address:  
Astronaut Recruitment Program, Canadian Space Agency  
P.O. Box 278, Station B, Montreal, Quebec H3B 3J7.

Applications will not be accepted by telephone or fax.

If you would like information, please call the following numbers:  
English: 1-800-667-7223  
Français: 1-800-567-7223



*Certification: I hereby certify that the amounts shown are an accurate as possible and that costs were incurred while conducting assessment work on board Mission on the accompanying report of work form. That on [Signature], I am authorized to make this certification.*

*Rand Holton - agent for Dennis Smith*

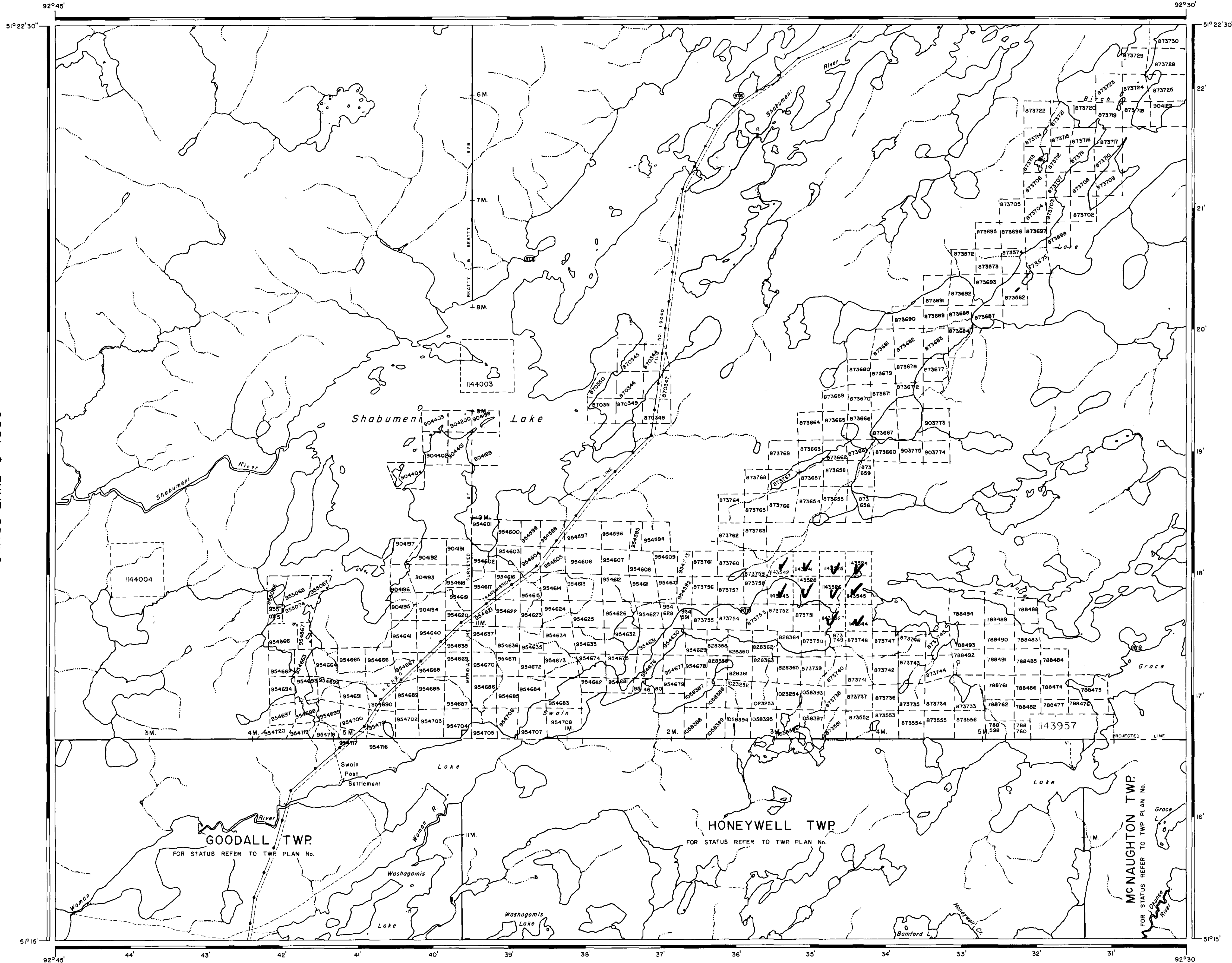


TRIM LINE

FOREST ACTIVITY INFORMATION  
THIS TOWNSHIP/AREA FALLS WITHIN THE

AND MAY BE SUBJECT TO FORESTRY OPERATIONS  
THE M.N.R. UNIT FORESTER FOR THIS AREA CAN BE  
CONTACTED AT  
P.O. BOX 5003  
RED LAKE, ONTARIO P0V 2M0  
1801 727253

LITTLE SHABUMENI LAKE G-1810

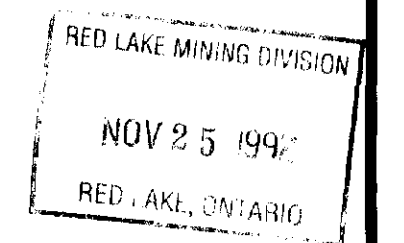


REFERENCES

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



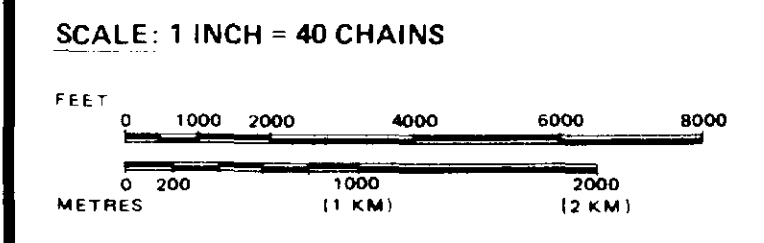
LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT
- REMOTE TOURISM SITE

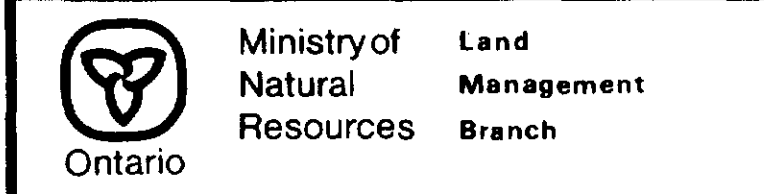
DISPOSITION OF CROWN LANDS

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 PARCELS PATENTED PRIOR TO MAY 6, 1912, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1910, CHAP. 380, SEC. 43, SUBSEC. 1.



AREA  
**SHABUMENI LAKE**  
M.N.R. ADMINISTRATIVE DISTRICT  
**RED LAKE**  
MINING DIVISION  
**RED LAKE**  
LAND TITLES / REGISTRY DIVISION  
**KENORA / PATRICIA**



Date FEB. 1983 Number **G-1881**

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.

