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MINING LANDS SECTION

Report on Basal Till Sampling,
Sylvanite Creek, Tooms and Greenlaw Townships

bу

W. O. Karvinen, Ph.D.

March 1983

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Introduction

During the period Oct. 1 to Oct. 20, 1982, W.O. KARVINEN & Associates Ltd. carried out a reconnaissance basal till geochemical survey for Quinterra Resources Inc. in Tooms and Greenlaw townships, near Kormak, Ont. Sampling was done with the aid of a bulldozer and backhoe and heavy mineral separation on large till samples was done in the field. Purpose of the survey was to test for gold enrichments in tills down-ice from a zone of favourable, but virtually unexposed, rock-types which cut east-west for four miles across the property.

Property Description

The property comprises 74 contiguous claims in east-central Tooms Township and west-central Greenlaw Township. The claims are registered in the name of Quinterra Resources Inc. Claim numbers are as follows: P630745 to P630756 inclusive; P648051 to P648054 inclusive; P631303 to P631330 inclusive; and P631333 to P631362.

Location and Access

The property is located approximately 25 miles east-southeast of Chapleau and about 90 miles southwest of Timmins (see map). Access used to be readily available via a logging road north from Kormak on the CPR line, but is now available only by a very poor, 20 mile long road from Nemogos to the west. The access through Kormak was cut at the railroad by CP rail after a long-term crossing agreement with Chapleau Lumber was terminated. The Ministry of Natural Resources refused to take on the crossing and thus access to the west end of the Swayze Greenstone Belt is now very limited.

Methodology

An earlier recconnaissance survey of the property indicated the presence of basal till on or near surface south of Sylvanite Creek and down-ice from the suspected position of the favourable stratigraphy.

As a result, a till geochemical survey using a bulldozer and backhoe was planned.

A D-6 bulldozer was used to brush-out and clear six miles of road to provide access fro the backhoe.

A backhoe mounted on a Muskeg Bombardier tractor was contracted from All Terrain Track Sales and Service Ltd. in Timmins, to dig pits for sampling. A total of 53 pits, spaced approximately 300 feet apart were dug in 5 days. A 10-lb composite sample of till and a 30 l sample, both screened to -0.5 cm, were collected from pits containing till. Characteristics and thicknesses of the till were recorded at each site.

The larger samples were brought to camp for heavy mineral separation, while the smaller samples were submitted for analysis (-0.063 mm fraction assayed). Heavy mineral separation was done with the aid of "Gold Screw" which also provide a representative sample of washed mini-stones. A total of 39 samples were put through the heavy mineral separator in four days.

Glacial Sediments

Basal lodgement till is preserved on the property in thicknesses varying from a few centimetres to two metres. The till is covered by varying thicknesses of glaciofluvial sands and silts. At the west end of the sampling line, the glaciofluvial sediments are thick (>12 feet) and basal till was not reached with the backhoe. Instead, a second till, overlying sands and silts and containing abundant carbonate boulders was sampled

in pits WR-2, 3 and 4. This till is exposed on surface and varies in thickness from 20 to 60 cm. Of the 59 pits, good till was found in 39 (66%).

The basal lodgement till is very compact, usually buff to gray-brown in color and packed with locally-derived clasts. Carbonate-rich clasts and other rock types characteristic of favourable stratigraphy are not common.

Analytical Results

The analysis of the fine fraction (-200 mesh) indicates a strong first order anomaly (>100 ppb) at station ER-23. Second order anomalies (>30 ppb) are more common along the east road, while a distinct cluster of anomalous values occur at pits WR-8, 9 and 11 on the west road.

Results of the analysis of the heavy mineral fraction of till do not reflect the anomalies picked up in the very fine fraction. The only exception is a point anomaly at pit WR-24. It appears that the gold is most concentrated in the very fine fraction (<0.063 mm) and was lost during the heavy mineral separation.

No values of tungsten in the heavy mineral fraction above 4 ppm were detected (see table).

Conclusions

- 1. An excellent basal lodgement till is preserved in most places on the property. A second till, which is not an ablation till, is exposed on surface at the west end of the property. It carrys numerous carbonate boulders related to the favourable horizons to the north.
- The presence of abundant, very locally-derived clasts in the basal till indicate the favourable stratigraphy to be at least ½ km up-ice (north) of the sampling line.
- 3. The presence of anomalous gold in the very fine fraction of the till

indicates a distal (>500 m) rather than a proximal source. The anomalies do, however, reflect a gold-bearing bedrock environment within 1000 m or so up-ice. The strong gold anomaly in pit 23, which is presumably closer to the favourable stratigraphy than the rest, reflects the increase in gold content of the till in a northerly direction.

4. There is no enrichment of tungsten in the till.

March 26, 1983

Dr. William O. Karvinen

Wokamen

CERTIFICATE

I, William Oliver Karvinen, of R. R. #2, Wahnapitae, Ontario, a geological consultant and President of W.O. KARVINEN & Associates Ltd., do hereby certify that:

The information contained in this report is accurate and correct;

That I have a 2½% net profits carried interest in the property described herein:

I hold a Doctorate of Philosophy and an Honours B.Sc. in geology from Queen's University (1974 and 1968) and a Master of Science in geology from the University of British Columbia (1970);

I am a Fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining and Metallurgy.

Wahnapitae, Ontario March 26, 1983

Dr. William O. Karvinen

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Bell-White analytical laboratories Ltd.

P.O. BOX 187

HAILEYBURY, ONTARIO POJ 1KO TEL: (705) 672-3107

W. O. Karvinen & Associates Ltd., R. R. # 2, Wahnapitae, Ontario. POM 3CO

INVOICE Nº 12721

ORDER NO.

DATE November 9, 1982.

ERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
B358-82	Nov.9/82	6 Au, 6 sample preparations	\$ 60.00
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R. R. # 2,
Wahnapitae, Ontario.
POM 3CO

INVOICE Nº 12703

ORDER NO.

DATE November 8, 1982.

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
B354-82	Nov.8/82	39 Au, 39 sample preparations	\$ 390.00
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ORDER NO.

POJ 1KO

Nº 12599 INVOICE

W. O. Karvinen & Associates Ltd., R. R. #2,

Wahnapitae, Ontario.

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DATE October 26, 1982.

ERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
B328-82	Oct. 26/82	27 Au, 27 As, 27 sample preparations	\$ 378.00
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Bell-White analytical laboratories Ltd.

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POJ 1KO

TEL: (705) 672-3107

W. O. Karvinen & Associates Limited R. R. #2 WAHNAPITAE, Ontario POM 3CO

INVOICE Nº 13169

ORDER NO.

DATE

February 11, 1983

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
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B42-83	Feb. 11/83	22 As Sobrall	88.00
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Bell-White analytical laboratories Ltd.

P.O. BOX 187

HAILEYBURY, ONTARIO POJ 1KO TEL: (705) 672-3107

W. O. Karvinen & Associates Ltd., R. R. # 2, Wahnapitae, Ontario. POM 3CO

INVOICE Nº 12703

ORDER NO.

DATE November 8, 1982.

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Your File: 93 Our File: 2.5461

Mr. Bruce W. Hanley Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

RE: Assaying submitted under Section 77(19) of the Mining Act R.S.O. 1980, on Mining Claims P 631320 et al in the Township of Tooms

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

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

Yours sincerely,

S.E. Yundt Director Land Management Branch

Whitney Block, Room 6643 Queen's Bark Toronto, Ontario M7A 1W3 Phone: (416)965-6918

D. Kinvig:mc

cc: Quinterra Resources Inc Suite 705 706 Seventh Avenue SM Calgary, Alberta T2P 0Z1

cc: Resident Geologist Timmins, Ontario cc: Mr. G.H. Ferguson

Mining & Lands Commissioner

Toronto, Ontario

Encl.

W.O. Karvinen & Associates Ltd.

Mineral Exploration • Consulting • Overburden Prospecting

Feb. 27/84

Re file 2.5461

Nama P631320 et al, Tooms Tp

1. Maps signed as requested

2. lancelled cheques + invoices for analyses enclosed in Suplicate.

Note: after checking, expenditures to all up to \$28. conather chan the 780.00 previously wentroned in report. Amended report embored.

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MINING LANDS SECTION

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Land Management Branch
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COMMENTS PLEASE
BY

MAR - 6 1984

S. E. YUNGT
J. R. MORYON
J. C. SMITH
W. L. GOOD

1984 02 11

Quinterra Resources Inc. Suite 705 706 Seventh Avenue S.W. Calgaryi Alberta T2P 0Z1

Dear Sirs:

RE: Assaying submitted on Mining Claims P 631320 et al, in the Township of Tooms.

Enclosed are the $\bar{p}lans$, in duplicate, for the above-mentioned survey. Please have the author of the report date and sign all maps and return them to this office as soon as possible.

Also, we have not received receipts or cancelled cheques required in order to assess work performed on mining claims listed above. Please provide receipts verifying payment of the expenditure of \$780.00 for sampling as soon as possible.

Yours very truly,

J. R. Morton Acting Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3

Phone: (416) 965-1380

M. E. Anderson:dg

cc: Mining Recorder Timmins, Ontario.



Geotechnical Report Approval

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To: Geophysics		
Comments		
	Date	Signature
Approved Wish to see again with corrections		
To: Geology - Expenditures Mr. Kustra.		
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To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

1983 04 15 2.5461

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 257

Dear Sir:

We have received data for Assaying submitted under Section 77(19) of the Mining Act R.S.O. 1980 for Mining Claims P 631320 et al in the Township of Tooms.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

A. Barr:sc

cc: Quinterra Resources Inc #705, 706 - Seventy Avenue S.W. Calgary, Alberta T2P 0Z1

cc: Dr. W.O. Karvinen ... RR #2
Wahnapitae, Ontario POM 3CO



Technical Assessment Work Credits

	2,5461
Date 1984 04 13	Mining Recorder's Report of Work No. 93

File

Recorded Holder	
	QUINTERRA RESOURCES INC
Township or Area	TOOMS TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnatic days	\$828.00 SPENT ON GEOCHEMICAL ANALYSES ON MINING CLAIMS:
Magnetometer days	P 631303 to 06 inclusive
Radiometric days	631310 to 13 inclusive 631320 631322 to 24 inclusive
Induced polarization days	631326 to 24 inclusive
Other days	
Section 77 (19) See "Mining Claims Assessed" column	55.2 ASSESSMENT WORK DAYS ARE ALLOWED
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Geochemical days	
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Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following mir	ning claims
No credits have been allowed for the following mining clai	ms
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Report of Work (Geophysical, Geological, Geochemical and Expenditures) Instructions: - Please type or print.

- If number of mining claims traversed

exceeds space on this form, attach a list.

Note: — Only days credits calculated in the "Expenditures" section may be entered in the "Expend, Days Cr." columns.

— Do not use shaded areas below.

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Ministryof Natural Resources Report of Work

- Instructions Supply required data on a separate form for each type of work to be recorded (see table below).
 - For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and

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SIMON OUELLETTE CONTRACTING

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Chapleau, Ontario Phone 864-1367 or 864-1662

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ALL-TERRAIN TRACK SALES & SERVICES LTD. Airport Road

Airport Road
TIMMINS, ONTARIO P4N 7C3

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(705) 264-2011

FOM 3CO

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SHIP TO		

Net 30 days. 2% interest (24% annum) charged on accounts over 30 days.

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Ministry of Natural Re-urces Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

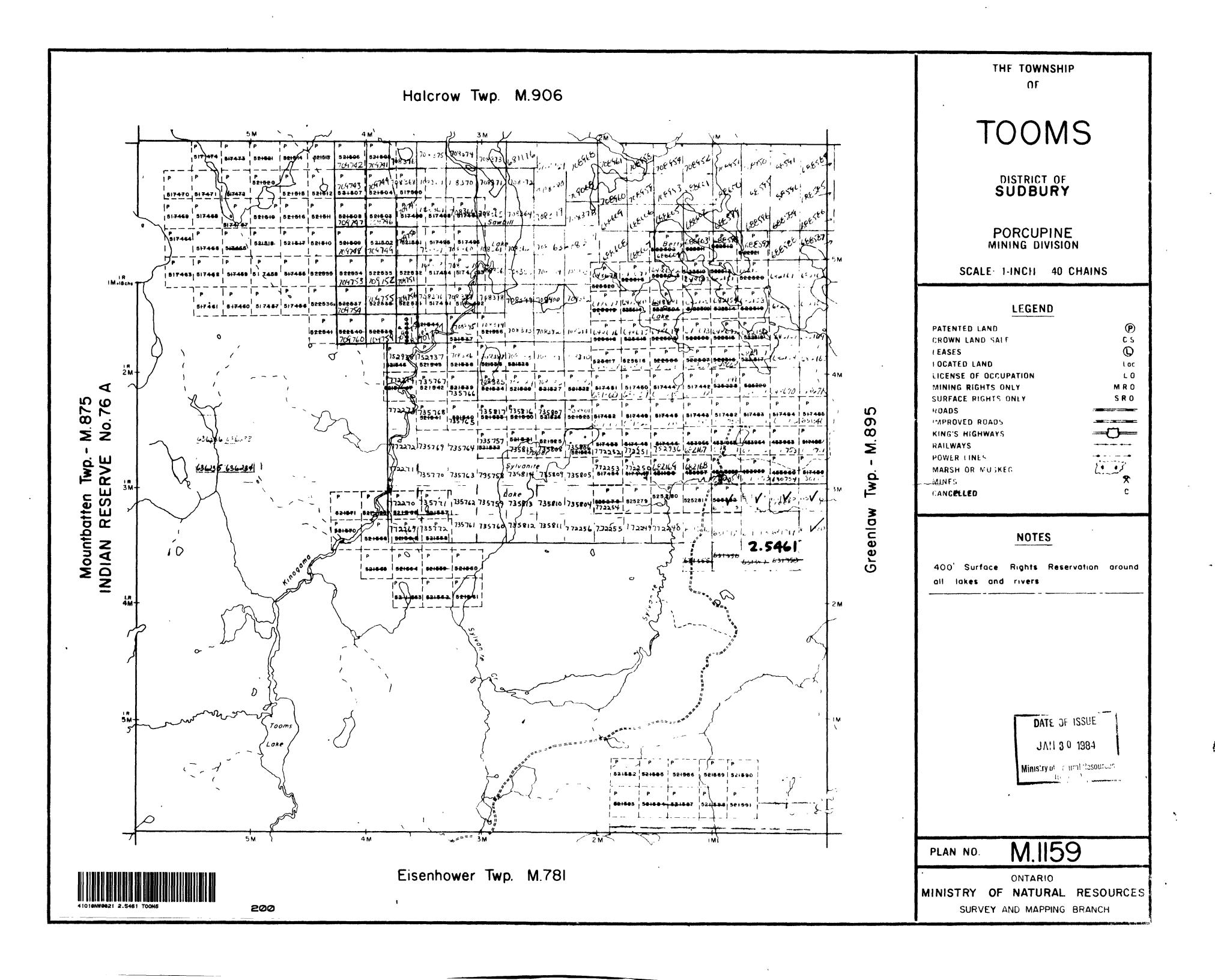
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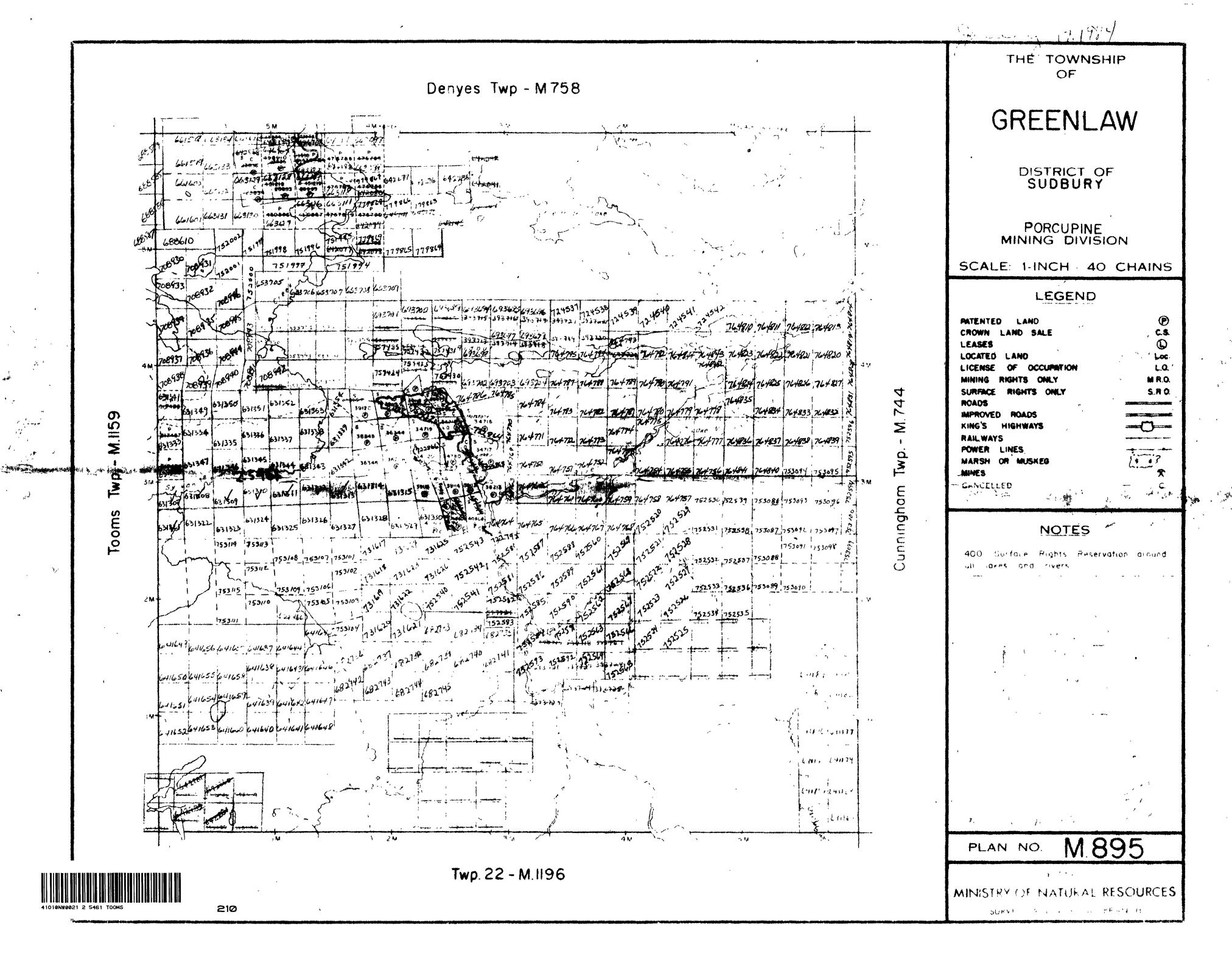
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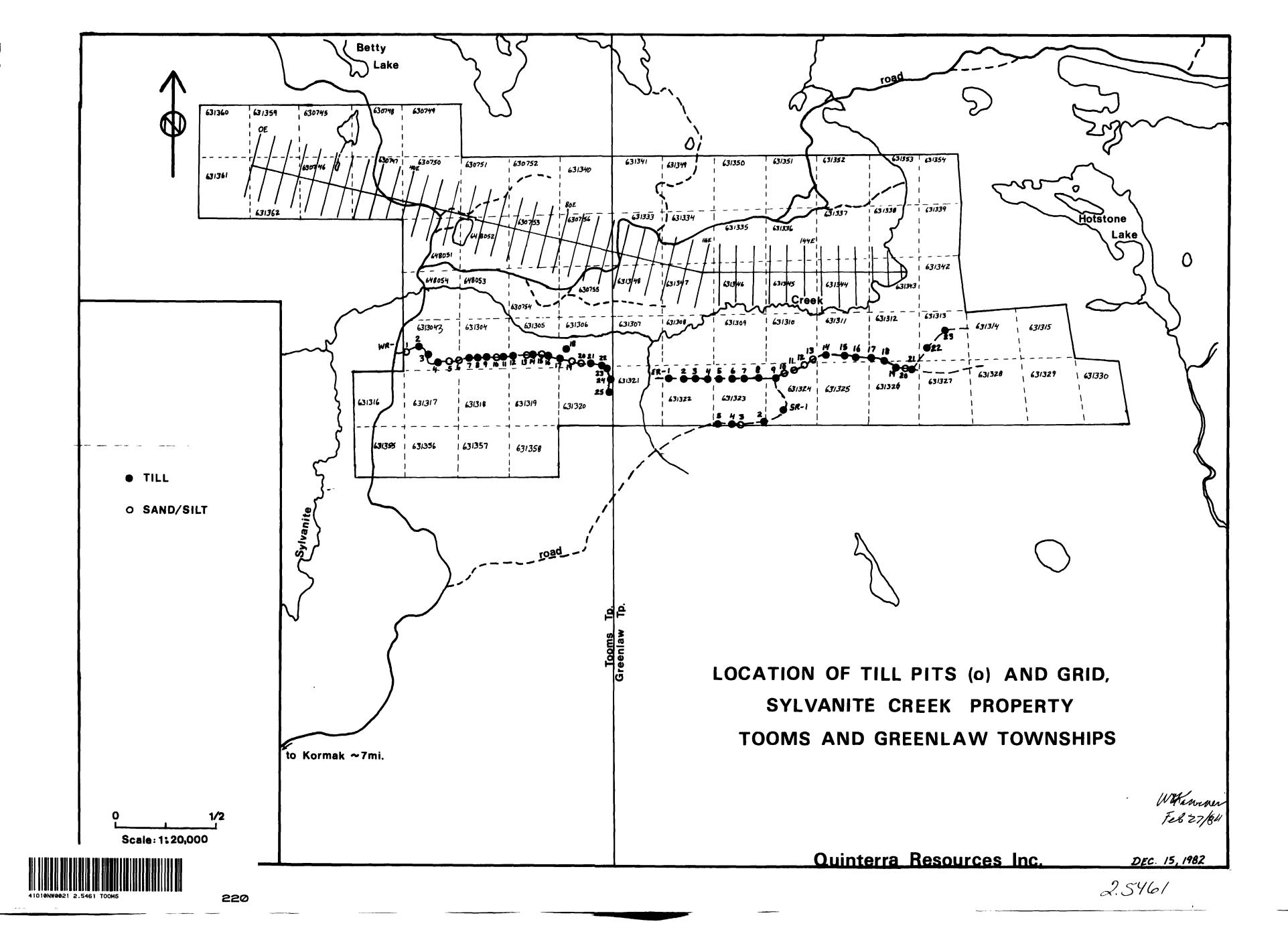
Type of Survey(s) Township or Area Analyses (Geochemical) Tooms Prospector's Licence No. Claim Holder(s)

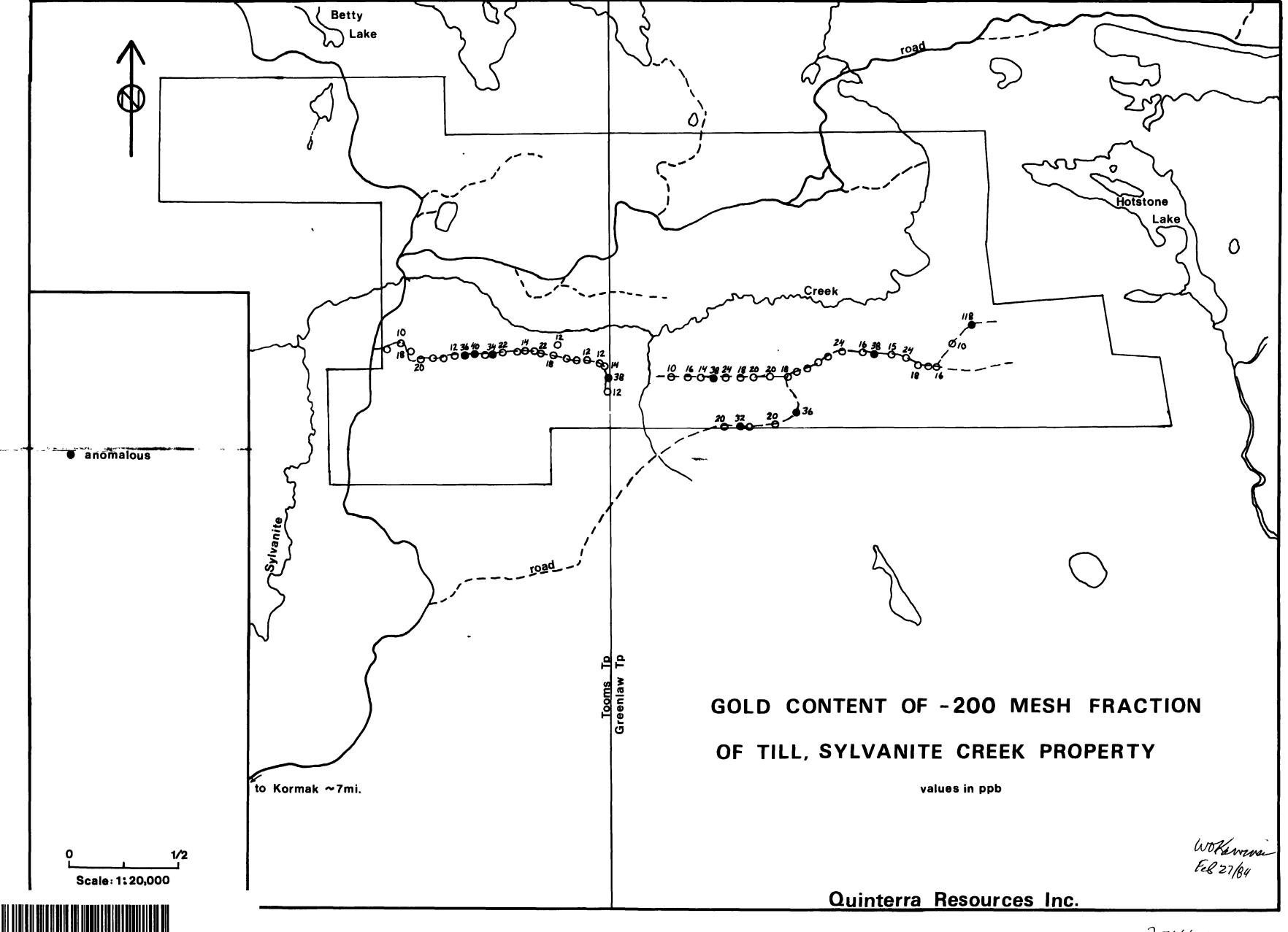
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Survey Company				Date of Surve	y (from & to) 82 18	10 82	Total Miles of line	Cut
	/INEN & Associa	tes Ltd	l .	Day Mo.		Mo. Yr.		
Name and Address of Author (o								
	Karvinen, R.R				POM 3CO			
Credits Requested per Each (Special Provisions	Claim in Columns at r		, , , , , , , , , , , , , , , , , , , ,	aims Traversed				
Special Provisions	Geophysical	Days per Claim	Prefix	ining Claim Number	Expand. Days Cr.	Prefix	ning Claim Number	Expend. Days Cr.
For first survey:	- Electromagnetic		 			1		1
Enter 40 days. (This			P	631320	26			_
includes line cutting)	- Magnetometer	<u> </u>		631321	26			
For each additional survey:	- Radiometric					Ī		
using the same grid:		 				+		+
Enter 20 days (for each)	- Other							
	Geological				1 1			
	Geochemical			- , , ,	+	-		+
	Geochemical							
Man Days	Geophysical	Days per Claim						
Complete reverse side	Electro				+			
and enter total(s) here	- Electromagnetic	 		·	1	1.	·	
	- Magnetometer					D	ECEIN	ED
	- Radiometric					1	ECEIV	FU
		 	1 }		 	1 1		1
	- Other					1	.PK 1 1 198	3
	Geological	}						
	Caraba di d				+	MINIM	G LANDS SE	CTION
	Geochemical	\		ч		1		1.010
Airborne Credits		Days per Claim			1 1			
Note: Special provisions	Electromagnetic							
credits do not apply		 						
to Airborne Surveys.	Magnetometer				1 1			
	Radiometric							
Expenditures (excludes power	er stripping)	ــــــــــــــــــــــــــــــــــــــ				1		
Type of Work Performed	er stripping)		ि एअ	nomina (Mastri)	11.7	1	a se a se en	in the profit
-Basal till sampl	ling (Let 2	19)		E0EE			a table is the state of the sta	مسأ مثنا
Performed on Claim(s)	TING C LLCC	~~~			1-1-1	1 1		
P631303 to P6313	313 incusive	ļ					62.8 3 0	<u>. 83 </u>
					`	1 1		1
P631321; P631320	0	į		<u></u>		Re	stipl Gorman	
Calculation of Expenditure Days	s Credits	Total	6 4	14-14-14-14-14-14-14-14-14-14-14-14-14-1		A		
Total Expenditures		s Credits		_ ^C	1.00	y		1
\$ 780.00	÷ 15 =	[]	\	5,9	CON PORT	Total	bor of mining	
780.00		52		, J	M Xp	claims cov	ber of mining ered by this	2
Instructions					9	report of v	vork.	
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.				For Office Use	Only]		
			Total Days Recorded	Cr. Date Recorder		Mining Rec	order	<u> </u>
				mar.		مارية المايام		ine de la fili
Date Rec	corded Holder or Agent (Signature)	152	Date Approve	d as/Recorded	Branch Dir	ector	
Man. 26/83 1	Wo Kanyon	<u></u>					<u></u>	· · · · · · · · · · · · · · · · · · ·
a								

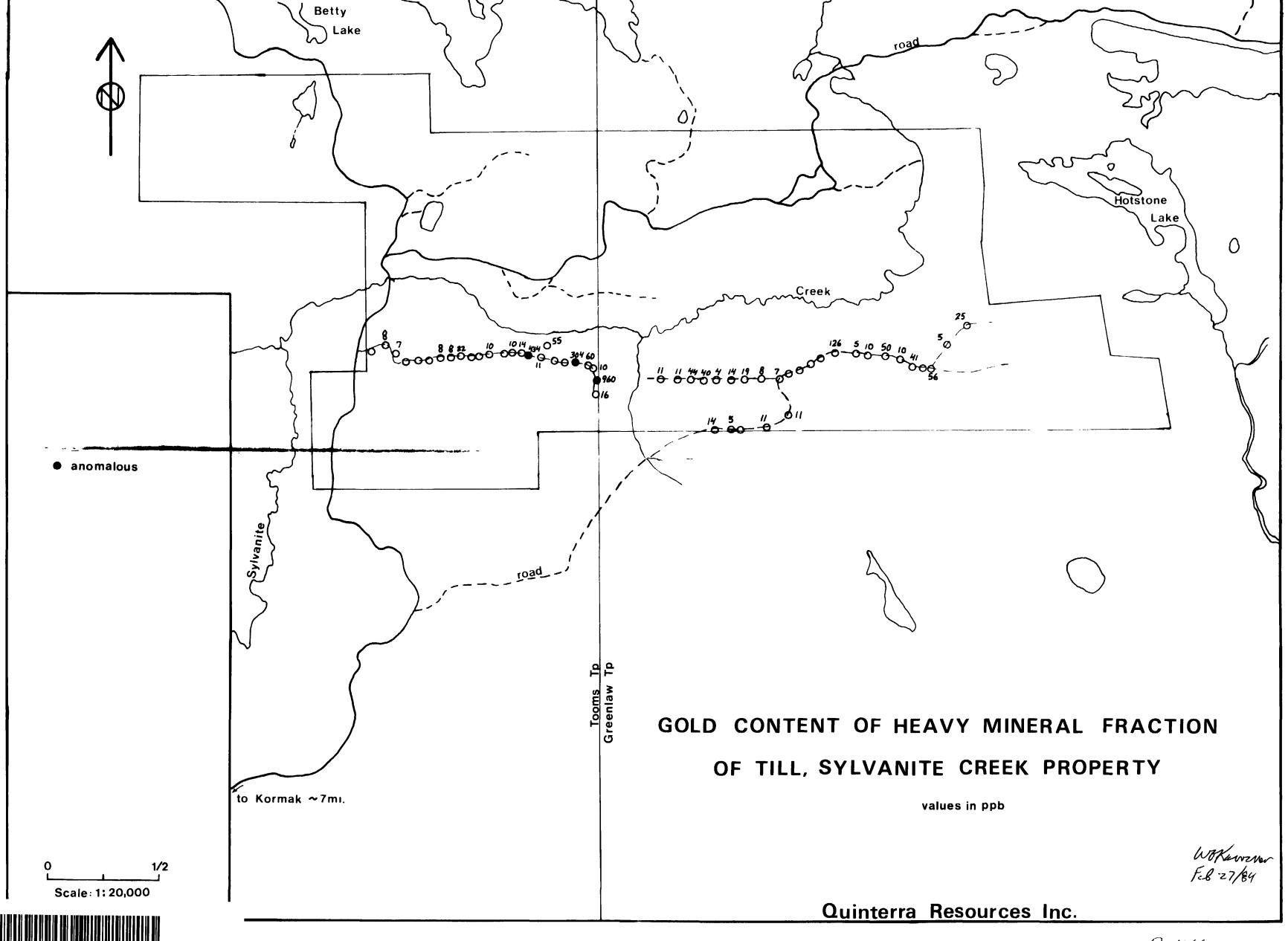
Certification Verifying Report of Work











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