



53C07NW0001 2.11521 HEWITT LAKE

010

SUMMARY REPORT  
ON  
SAMPLING AND MAPPING PROGRAM  
McNERNEY CLAIMS  
NORTH SPIRIT LAKE, ONTARIO  
FOR  
PETROMET RESOURCES LIMITED

RECEIVED  
AUG 17 1988  
MINING LANDS SECTION

August, 1988  
Toronto, Ontario

W.E. Brereton, P.Eng.  
MPH CONSULTING LIMITED

TABLE C



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## 1.0 INTRODUCTION

This is to report briefly on the results of a limited sampling and reconnaissance mapping program carried out on the above property during the first week in June, 1988. This is in addition to the sampling that was carried out in early November of last year. Work was concentrated on claim 977537, the land portion of which was mapped on 50 m flagged lines followed by a program of geochemical soil sampling over the land portion of the claim. The small island was also mapped and sampled in detail and traverses were carried out on the extensive outcrop along the shoreline.

The Pontoon Bay property is located 175 km north of Red Lake in north-western Ontario. Only access is by aircraft from bases at Red Lake or Pickle Lake.

There is no record of any previous drilling on the property. A single hole was drilled by Noranda Exploration in 1970 just west of the west boundary of claim 999601 on an EM conductor. The hole intersected a sulphide section (py, po  $\pm$  cp), in explanation of the conductivity, in a sedimentary setting.

## 2.0 GEOLOGY AND MINERALIZATION

The property covers the south half of an elliptical diorite stock which measures approximately 3.5 km by 1.5 km. The stock is elongate in a northeast-southwest direction and is intrusive into a predominantly clastic sedimentary assemblage with some indicated volcanic component. The sediments have been extensively sheared and metamorphosed and now appear principally as fine-grained, well laminated quartz-biotite gneiss, biotite gneiss and meta-greywacke. Small quartz eyes were commonly noted in these rocks during the mapping on claim 977537, particularly in the south part of the claim (Map 1).

The diorite is generally a homogenous, well foliated quartz-plagioclase-biotite/amphibole rock and may be quite similar to some of the surrounding gneisses. The mapping suggests that the diorite is generally fine-grained near the contact becoming coarser away from this feature. Abundant sedimentary xenoliths were noted in the diorite near the contact on claim 977532. Strong shearing was observed in the diorite near the contact on claim 977537 and in the above area trending az 130-140° and az 175° respectively.

Mineralization on claim 977537 consists mainly of shear-hosted, sulphide-rich laminae and disseminations within both the sheared sediments/volcanics and in sheared diorite near the contact. Pyrite and arsenopyrite are the main sulphides with total sulphide content rarely exceeding 10-15% and more commonly averaging 1-5%. Chalcopyrite is present in a 15 cm, SE-striking discrete quartz vein in diorite on claim 977535 (sample PBR-88-05). This porphyry copper-style of quartz-chalcopyrite fracture fillings is known to exist within the main diorite body elsewhere in the area.

The rusty, sulphide-bearing shear zones typically show some silicification manifested both as irregular quartz veins and masses or as a less discrete, more pervasive alteration. The zones also display variable

carbonatization and sericitization. Tourmaline is present in fine quartz-filled fractures at sample site PBR-88-04 on claim 977532.

Individual zones of stronger shearing and mineralization are generally quite narrow, typically a few cm to 1 m, although these may be within much broader zones of shearing and alteration as on the north tip of the small island on claim 977537 where the overall zone is in excess of 20 m in width.

### 3.0 SAMPLING AND ASSAY RESULTS

Approximately thirty samples of the best-looking mineralization were collected during the present and 1987 work with the bulk of these from the known showing area on claim 977537. Assay results for Cu, As and Au are plotted on the enclosed geology map (Map 1) and assay sheets showing the results for a number of other elements in addition to the above including Hg, Sb and Zn are appended.

Gold assay values ranged up to 0.74 oz/ton from a sample of pyrite-arsenopyrite shear material from within the diorite on the north end of the small island on claim 977537. The overall shear zone here is in excess of 20 m in width although the mineralized zone from which the sample was taken is less than 30 cm wide. Samples of sheared, rusty pyrite-arsenopyrite-bearing diorite immediately to the south, on and near the lake shore, returned significant gold values (NSL-87-09, 0.17 oz/ton Au; NSL-87-10, 0.18 oz/ton Au; NSL-87-11, 0.17 oz/ton Au).

Again, individual mineralized zones appear to be very narrow, much less than 0.5 m, although the rocks are extensively sheared all along the lake shore in this area.

Selected sample NSL-87-12 from last fall returned 0.36 oz/ton Au. The sample is from a zone less than 1 m in width containing locally up to 15% or more of fine arsenopyrite needles as sulphide-rich laminae and disseminations. This same zone was traced further along strike to the east this year. Additional sampling of more representative material (samples PBR 88-09, 09A) did not return any values of interest.

Sampling to the west of previous sample NSL-87-13 (0.21 oz/ton Au) returned 0.088 oz/ton Au (sample PBR-88-13). The width of the former zone could not be ascertained with certainty as it is along the edge of a hill but it would appear to be quite narrow.

The 15 cm quartz-chalcopyrite vein on claim 977535 assayed 0.097 oz/ton Au (sample PBR-88-05).

Gold values correlate in a general way with both copper and arsenic although the correlation would seem to be the strongest with arsenic. Pyrite-bearing samples with very low As-Cu concentrations typically contain little or no gold (e.g. PBR-88-02, 08, etc.).

Modestly anomalous Sb and Pb values (80 ppm, 1500 ppb) were recorded in samples PBR-88-05 and 010, respectively. An Hg value of greater than 1,000 ppb was recorded in sample PBR-88-03 corresponding to a gold value of 0.028 oz/ton.

#### 4.0 SOIL GEOCHEMISTRY

Results of limited B-horizon soil geochemical sampling are presented on Map 2 for the elements Cu, As and Au. Samples were collected with a soil auger at a depth of 20-40 cm.

Results of other soil sampling programs in northwestern Ontario indicate that the following threshold levels are applicable.

	<u>Possibly Anomalous</u>	<u>Anomalous</u>
Cu	35-65 ppm	65 ppm+
As	15-30 ppm	30 ppm+
Au	10-20 ppb	20 ppb+

Gold does not form any appreciably anomalous patterns. Gold values in general are low. The highest value recorded was 60 ppb from the north end of line 1+50E. This sample contained excessive humic material which might be positively biasing the gold value.

Copper values are likewise generally low with no significantly anomalous patterns evident. Copper values are often elevated in the area of known surface arsenopyrite occurrences, e.g. along lines 0+00 and 0+50W.

There are a number of anomalous arsenic values in the geochemical results. These typically coincide with known surface arsenopyrite occurrences, e.g. along the south half of line 0+50W. Anomalous arsenic values in other portions of the grid suggest that there are a number of additional arsenopyrite showings buried beneath shallow overburden, e.g. in the area of 0+25N on line 0+50W, 0+75N, line 0+00 and towards the south end of line 1+50W.

Increased arsenic values towards the north end of line 1+50W probably reflect inland continuations of the arsenopyrite zones present along the lakeshore to the west.

There are no significantly anomalous values in the other elements that were analyzed for (Zn, Sb, Hg, etc.).



5.0 SUMMARY AND CONCLUSIONS

Good grade gold values can be locally obtained from arsenopyrite-bearing shear zones on claim 977537. In detail, however, above average gold values are erratically distributed and individual gold zones are quite narrow, usually a fraction of a metre.

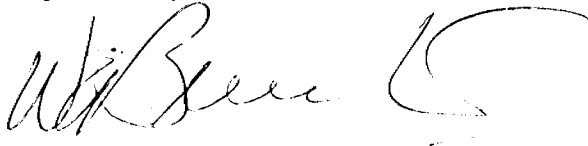
The limited geochemistry does not point to a widespread gold distribution in the soils.

On the other hand, mineralization occurs across a relatively broad area along the diorite-sediment contact. Also, the investigation reported on herein addressed only a small portion of the overall claim group. There is strong geochemical evidence for the existence of additional arsenopyrite zones within the present soil grid.

Any further work should take the form initially of prospecting, mapping and extensive soil geochemistry.

It will probably be possible to trench some of the soil geochemical anomalies. In terms of geophysics, the mineralization observed would appear to present a classic IP target.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read 'W.E. Brereton', followed by a large, sweeping flourish that extends to the right.

W.E. Brereton, P.Eng.

APPENDIX 1

Analytical Results

SAMPLE	AU PPB	CU PPM	ZN PPM	AS PPM	SB PPM	W PPM	HG PPB	PB PPM
L150W 100N	5	13.0	49.0	64.0	0.3	<3	39	6
L150W 75N	<1	8.5	15.0	31.0	0.1	<3	24	<2
L150W 50N	3	7.5	30.0	3.5	<0.1	<3	24	<2
L150W 25N	<1	8.5	45.0	2.0	<0.1	<3	29	<2
L150W BLO	<1	15.0	64.0	9.9	<0.1	6	44	<2
L150W 50S	<1	20.0	83.0	9.2	<0.1	<3	51	<2
L150W 75S	5	38.0	85.0	85.0	0.2	<3	53	6
L150W 100S	<1	16.0	27.0	8.1	<0.1	<3	10	<2
L150E 100N	60	8.0	20.0	3.0	0.3	HH	47	4
L150E 75N	11	10.0	18.0	2.0	0.2	3	15	<2
L150E 50N	<1	2.0	10.0	4.6	<0.1	6	6	<2
L150E 25N	<1	8.5	18.0	5.5	<0.1	<3	15	<2
L150E BLO	<1	8.5	22.0	4.4	<0.1	<3	19	<2
L150E 25S	<2	4.0	21.0	<0.1	0.2	HH	88	6
L150E 50S	<2	18.0	71.0	5.5	0.1	<3	34	<2
L150E 100S	31	15.0	55.0	4.8	<0.1	<3	39	<2
L100E 100N	2	17.0	10.0	4.8	0.2	<3	15	<2
L100E 75N	4	8.5	23.0	59.0	0.4	5	10	2
L100E 50N	1	9.0	13.0	8.3	0.2	<3	56	<2
L100E 25N	2	7.0	12.0	8.1	0.5	<3	44	<2
L100E BLO	3	4.5	12.0	2.6	0.2	<3	24	<2
L100E 25S	<1	3.0	11.0	0.4	<0.1	<3	19	<2
L50W 100N	<1	9.0	47.0	2.6	<0.1	<3	19	<2
L50W 87.5N	<1	11.0	62.0	3.9	<0.1	<3	15	<2
L50W 75N	21	17.0	77.0	6.5	0.1	<3	45	4
L50W 62.5N	4	5.5	24.0	<0.1	0.1	NSS	72	<2
L50W 50N	2	5.0	9.0	0.3	0.1	NSS	78	<2
L50W 37.5N	2	21.0	50.0	790.	0.4	<3	39	2
L50W 25N	2	8.0	18.0	<0.1	0.2	HH	90	<2
L50W 12.5N	2	15.0	15.0	0.2	0.2	HH	72	<2
L50W BLO	4	37.0	80.0	9.4	0.3	<3	44	14
L50W 12.5S	2	28.0	52.0	26.0	0.4	<3	46	6
L50W 25S	2	110.	65.0	39.0	0.8	<3	19	6
L50W 37.5S	3	5.5	18.0	0.3	<0.1	NSS	100	6
L50W 50S	3	7.0	9.0	9.0	0.2	4	19	<2
L50W 62.5S	14	2.5	8.0	7.5	0.1	8	22	<2
L50W 75S	11	23.0	38.0	580.	1.7	16	80	2
L50W 87.5S	3	2.5	12.0	99.0	0.3	4	15	<2
L50W 100S	9	5.0	13.0	35.0	0.2	6	19	<2
L50E 100N	10	7.0	10.0	15.0	0.2	<3	5	<2
L50E 75N	6	5.0	9.0	9.2	0.2	<3	15	4
L50E 50N	2	5.5	20.0	1.1	0.3	5	10	<2
L50E 25N	5	6.0	39.0	31.0	0.8	<3	10	<2
L50E BLO	2	6.5	24.0	6.1	0.2	<3	10	6
L50E 25S	15	10.0	20.0	8.5	0.1	<3	5	<2
L50E 50S	1	3.0	21.0	5.5	<0.1	<3	<5	2
L50E 75S	<2	8.5	40.0	0.8	<0.1	HH	89	10
L50E 100S	6	5.0	22.0	0.4	<0.1	HH	66	2
L0 100N	1	19.0	70.0	35.0	0.1	<3	34	14
L0 75N	8	11.0	51.0	140.	1.5	4	29	4

NSS - NOT SUFFICIENT SAMPLE  
HH - ORGANIC CONTENT TOO HIGH FOR THIS PROCEDURE



03-AUG-88

527/3

REPORT 5457

REF.FILE 1638-K3

PAGE 2 OF 2

SAMPLE	AU PPB	CU PPM	ZN PPM	AS PPM	SB PPM	W PPM	HG PPB	PB PPM
LO 50N	<1	4.5	38.0	6.6	0.2	<3	18	2
LO 25N	<1	16.0	48.0	4.6	0.2	<3	15	<2
LO 25S	19	22.0	62.0	170.	0.7	<3	33	8
LO 50S	3	15.0	35.0	11.0	<0.1	<3	15	2
LO 75S	<1	9.0	24.0	7.0	<0.1	7	11	<2
LO 100S	<1	13.0	23.0	4.8	0.1	<3	7	<2



05-JUL-88

REPORT 5396

REF.FILE 1727-S5

PAGE 1 OF 1

*136LS*

SAMPLE	AU PPB	AU OZ/TON	CU PPM	ZN PPM	AS PPM	SB PPM	W PPM	HG PPB	PB PPM
NSL-87-1	1000	--	60.0	27.0	490.	1.1	8	13	<2
NSL-87-2	240	--	42.0	30.0	72.0	0.4	<3	<5	<2
NSL-87-3	420	--	110.	28.0	460.	0.4	8	7	<2
NSL-87-4	71	--	280.	24.0	560.	0.4	5	13	4
NSL-87-5	34	--	80.0	20.0	48.0	0.5	<3	52	<2
NSL-87-6	44	--	57.0	10.0	50.0	0.7	<3	10	<2
NSL-87-7	120	--	120.	20.0	16.0	0.9	<3	7	<2
NSL-87-9	6100	0.170	110.	48.0	3600.	0.5	7	23	30
NSL-87-10	6300	0.180	92.0	42.0	5400.	0.5	11	<5	<2
NSL-87-11	5200	0.170	69.0	26.0	22000.	0.4	7	41	50
NSL-87-12	>10000	0.360	67.0	41.0	22000.	0.4	12	15	16
NSL-87-13	6600	0.210	140.	41.0	20000.	0.4	8	18	36

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

*reels*

SAMPLE	AU PPB	AU OZ/TON	CU PPM	ZN PPM	AS PPM
PBR88-01	3	--	61.0	97.0	580.
PBR88-02	72	--	130.	100.	15.0
PBR88-03	1900	0.028	25000.	170.	23.0
PBR88-04	520	--	730.	110.	290.
PBR88-05	4200	0.097	24000.	120.	100.
PBR88-06A	700	--	460.	70.0	60000.
PBR88-06B	37	--	330.	64.0	66000.
PBR88-08	13	--	53.0	93.0	250.
PBR88-09A	1600	--	83.0	120.	9400.
PBR88-09B	400	--	260.	50.0	7200.
PBR88-010	910	--	130.	28.0	11000.
PBR88-011	13	--	49.0	160.	32.0
PBR88-012	8	--	57.0	21.0	140.
PBR88-013	3000	0.088	41.0	97.0	8200.
PBR88-014	260	--	11.0	46.0	36000.
PBR88-015	>10000	0.740	72.0	20.0	420.
PONTOON BAY	1900	0.057	30.0	66.0	7800.

> - CONCENTRATION TOO HIGH FOR GEOCHEMICAL ANALYSIS

APPENDIX 2

Technical Data Statements





**GEOCHEMICAL SURVEY - PROCEDURE RECORD**

Numbers of claims from which samples taken 977537

Total Number of Samples 56

Type of Sample Soil  
(Nature of Material)

Average Sample Weight 100g

Method of Collection Auger

Soil Horizon Sampled "B"

Horizon Development Moderate

Sample Depth 20 - 40 cm

Terrain Flat, some swamp, scattered outcrop

Drainage Development Well drained

Estimated Range of Overburden Thickness 0 - 8m

**SAMPLE PREPARATION**  
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis - 80

General \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ANALYTICAL METHODS**

Values expressed in:            per cent      
   p. p. m.      
   p. p. b.   

Cu, Pb, Zn, Ni, Co, Ag, Mo, As (circle)

Others Au, Sb, W, Hg

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (\_\_\_\_\_ tests)

Name of Laboratory X-Ray Assay Lab

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General	METHOD	DETECTION
---------	--------	-----------

Au	- FADCP	1 ppb
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Cu	DCP	0.5 ppm
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Zn	DCP	0.5 "
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As	FAA	0.1 "
----	-----	-------

Sb	FAA	0.1 "
----	-----	-------

W	XRF	3 "
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Hg	Wet	5 "
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Pb	DCP	2 "
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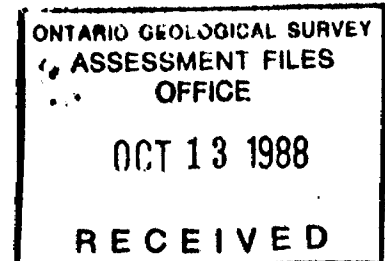
53C07NW0001 2.11521 HEWITT LAKE

900

September 13, 1988

Your file: W8802-130  
Our file: 2.11521

Mining Recorder  
Ministry of Northern Development & Mines  
P.O. Box 324  
Red Lake, Ontario  
POV 2M0



Dear Madam:

Re: Notice of Intent dated August 25, 1988  
Geological and Geochemical Surveys submitted  
on Mining Claims KRL 977537 in the Area of  
Hewitt Lake Area

The assessment work credits, as listed with the above-mentioned  
Notice of Intent, have been approved as of the above date.

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

Yours sincerely,

W.R. Cowan, Manager  
Mining Lands Section  
Mines & Minerals Division

Whitney Block, Room 6610  
Queen's Park  
Toronto, Ontario  
M7A 1W3

Telephone: (416) 965-4888

RM:ma

c.c. Petromet Resources  
Suite 350  
839 - 5th Ave. S.W.  
Calgary, Alberta  
T2P 3C8

Mr. G.H. Ferguson  
Mining & Lands Commissioner  
Toronto, Ontario

Resident Geologist  
Red Lake, Ontario

Mr. W.E. Brereton  
MPH Consulting Ltd.  
Suite 2406  
120 Adelaide Street W.  
Toronto, Ontario  
M5H 1T1



Recorded Holder	Petromet Resources
<del>XXXXXX</del> Area	Hewitt Lake Area

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological <u>15</u> days Geochemical <u>15</u> days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	KRL 977537

Special credits under section 77 (16) for the following mining claims

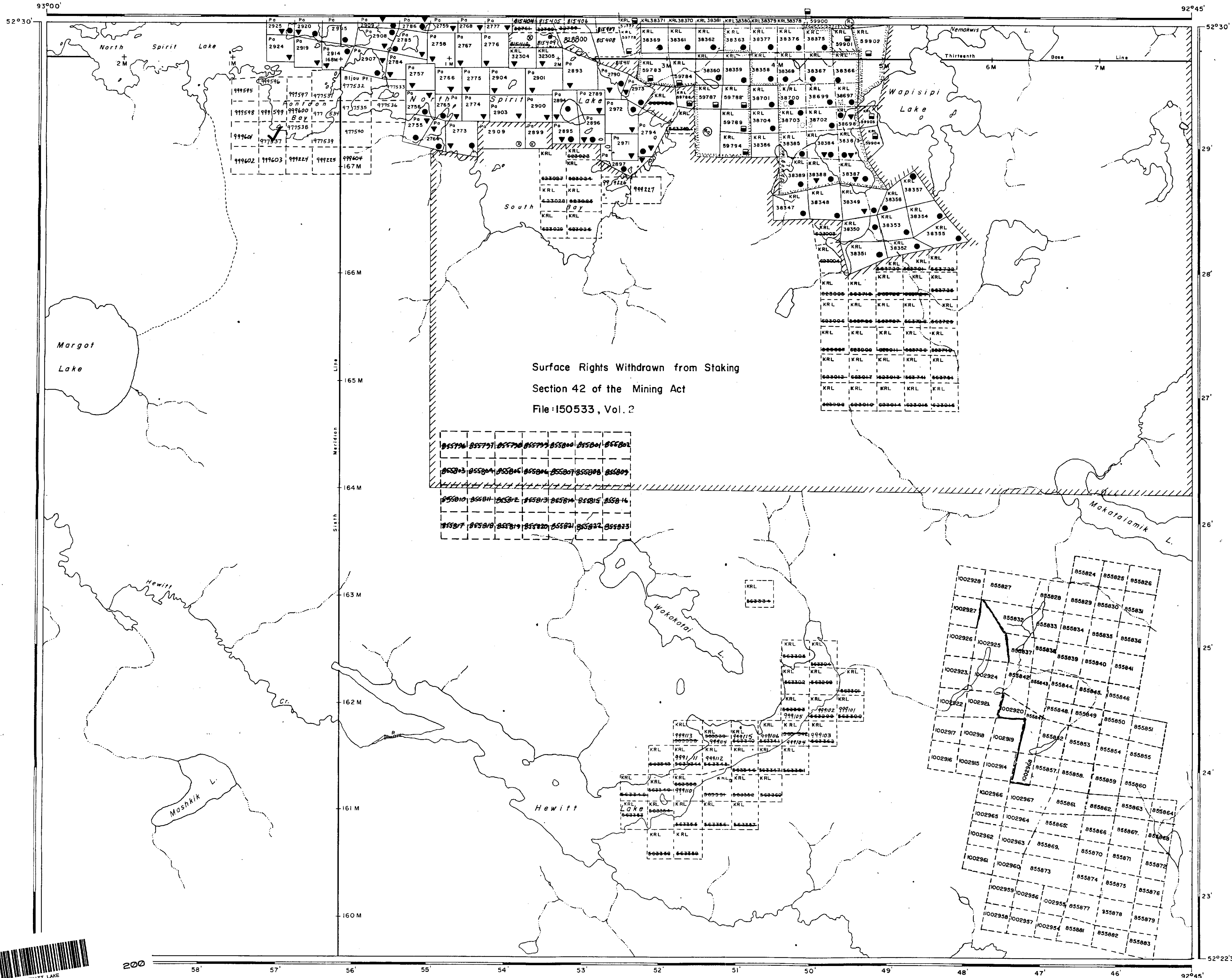
No credits have been allowed for the following mining claims

not sufficiently covered by the survey       insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



BUCKETT LAKE



Surface Rights Withdrawn from Staking  
Section 42 of the Mining Act  
File: 150533, Vol. 2

MARGOT LAKE G-1818

WAPISKOWAMIK LAKE G-1906

MATTSON LAKE G-1819

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
SEC 42	W-68-71	09/10/71	S.R.O.	150533
SEC 42			S.R.O.	150533
			M.+S.	150531 & 150533
	W-68-71	11/02/71	S.R.O.	150533

WEDGES UNDER ORDER TO MOVE POST-REVENUE INSPECTION, 05-FEB-88  
NO OPEN GROUND

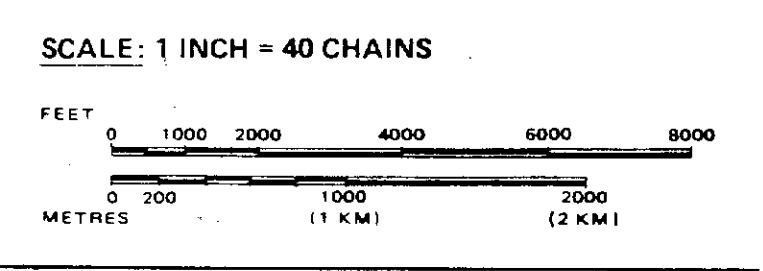
RED LAKE MINING DIVISION  
FEB 12 1988  
RED LAKE, ONTARIO LEGEND

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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	(Symbol)
" SURFACE RIGHTS ONLY	(Symbol)
" MINING RIGHTS ONLY	(Symbol)
LEASE, SURFACE & MINING RIGHTS	(Symbol)
" SURFACE RIGHTS ONLY	(Symbol)
" MINING RIGHTS ONLY	(Symbol)
LICENCE OF OCCUPATION	(Symbol)
ORDER-IN-COUNCIL	(Symbol)
RESERVATION	(Symbol)
CANCELLED	(Symbol)
SAND & GRAVEL	(Symbol)

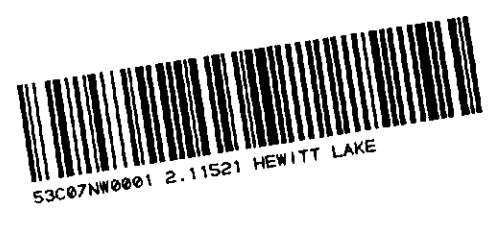
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.



AREA  
**HEWITT LAKE**  
(SOUTH PART NORTH SPIRIT LAKE)  
M.N.R. ADMINISTRATIVE DISTRICT  
**RED LAKE**  
MINING DIVISION  
**RED LAKE**  
LAND TITLES / REGISTRY DIVISION  
**KENORA / PATRICIA**

Ontario Ministry of Natural Resources Land Management Branch

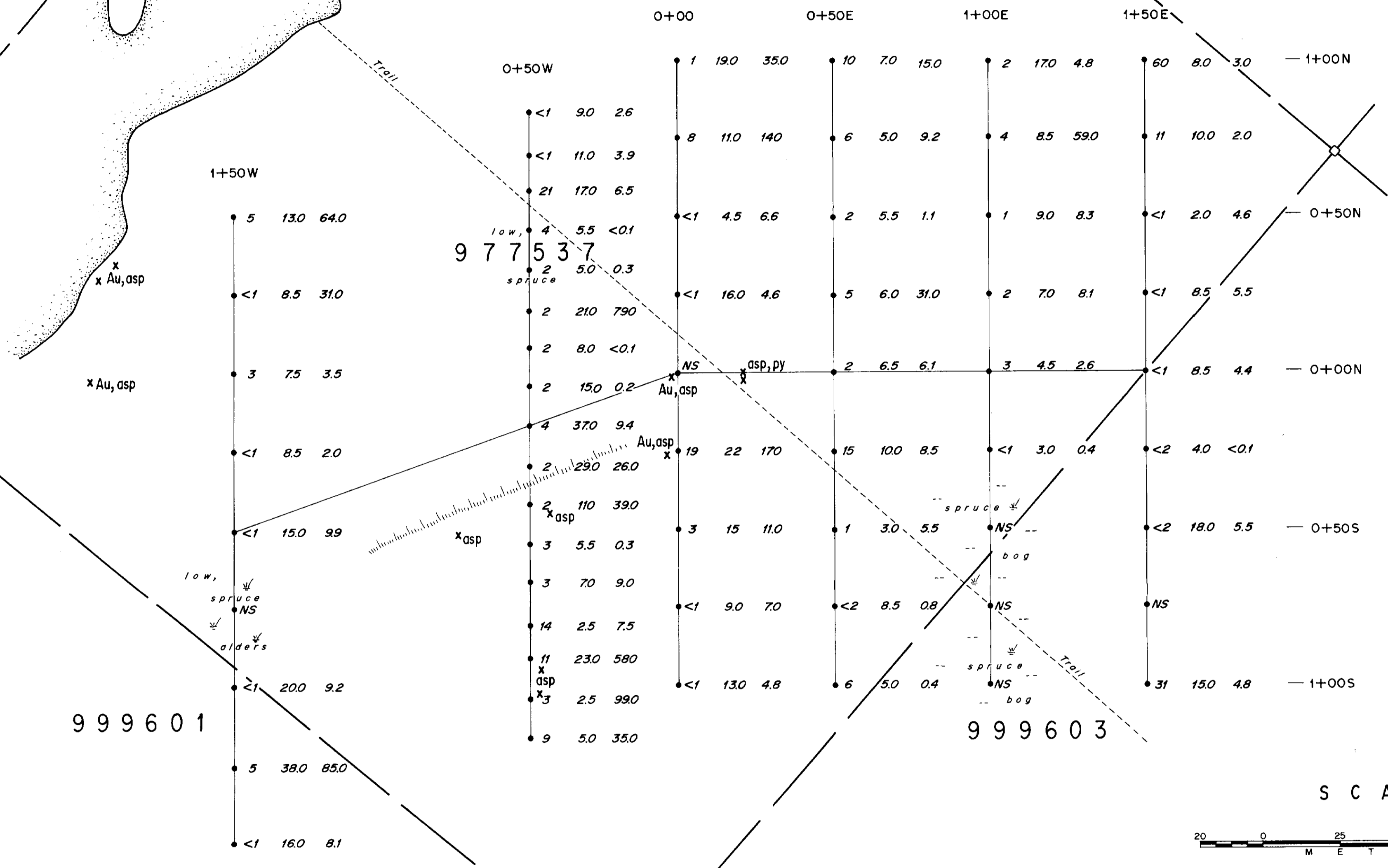
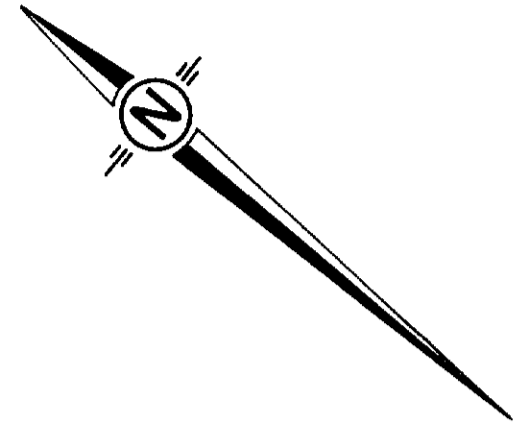
Date: FEBRUARY 15, 1983  
Number: G-1794



NORTH SPIRIT LAKE

(PONTOON BAY)

9 7 7 5 3 8




LEGEND

- 5 38.0 85.0 Soil sample location and geochemical values - Au (ppb), Cu (ppm), As (ppm)
- NS No sample
- x Mineral occurrence
  - Au - gold
  - asp - arsenopyrite
  - py - pyrite

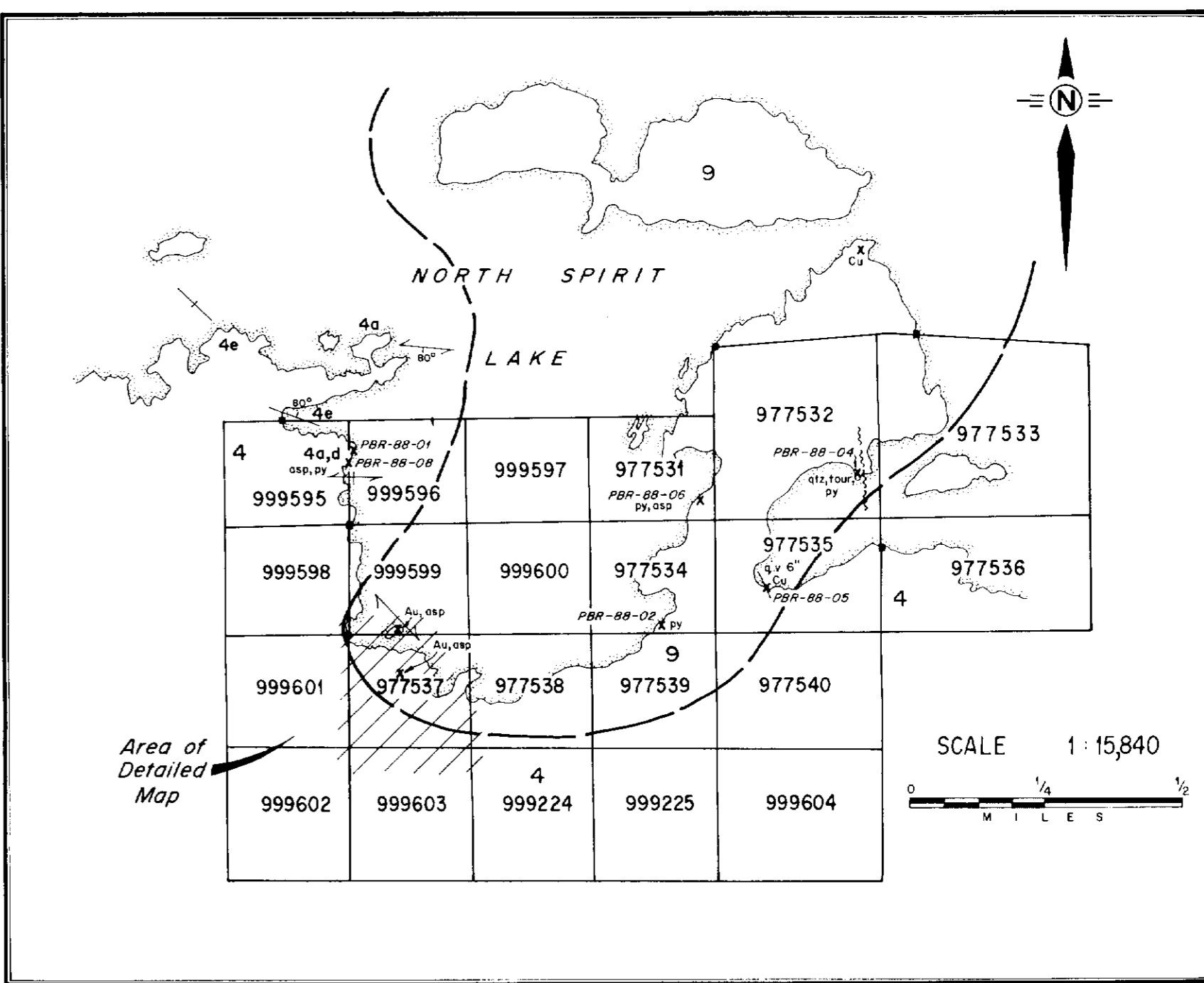
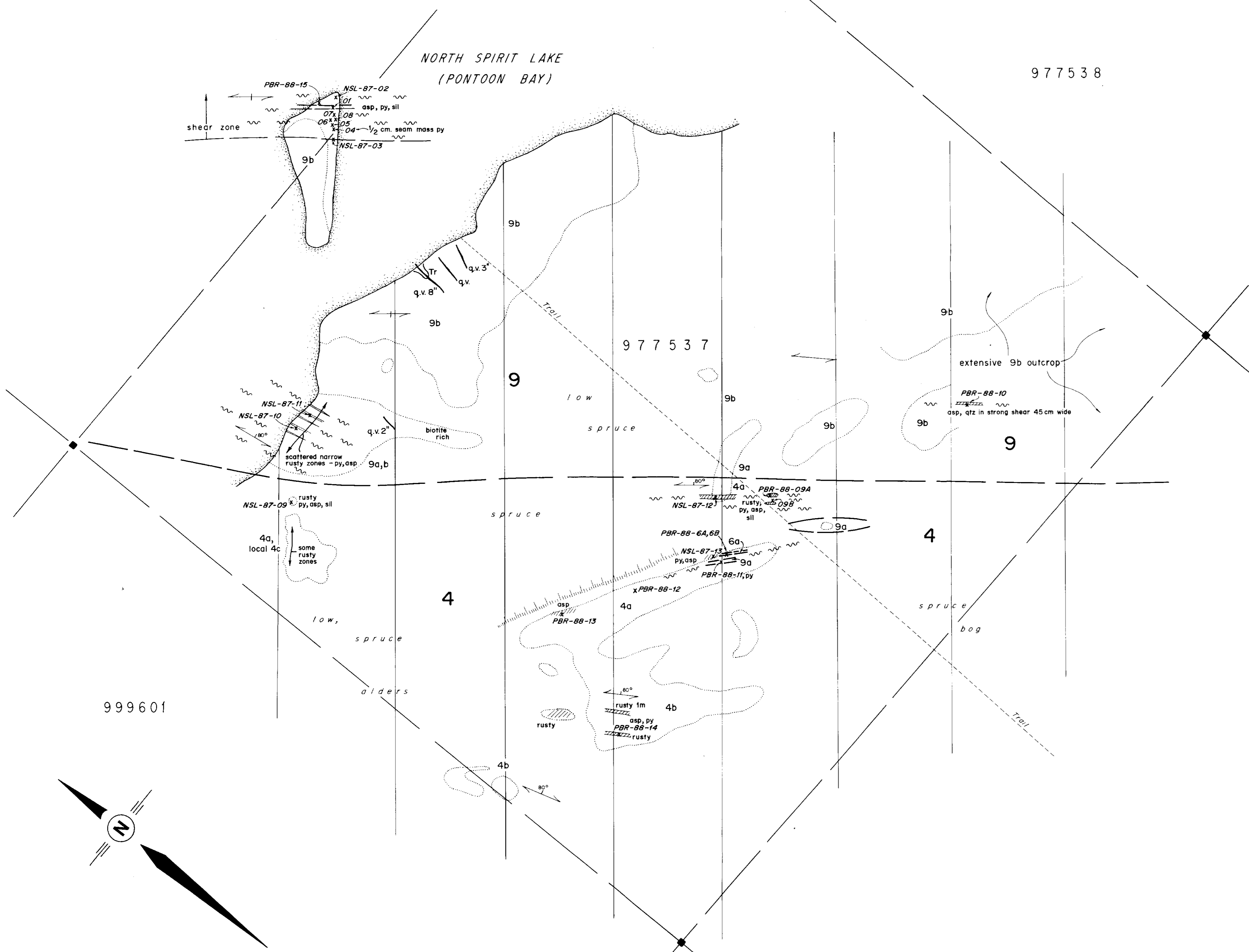
SCALE



<b>PETROMET RESOURCES LIMITED</b>	
PONTOON BAY GOLD PROPERTY NORTH SPIRIT LAKE, ONTARIO	
<b>SOIL GEOCHEMISTRY</b>	
Project No: C-1138	By: G. P. Sinclair
Scale: 1:1,000	Drawn: A & N Cartographics
Drawing No: Map 2	Date: August, 1988
 <b>MPH Consulting Limited</b>	

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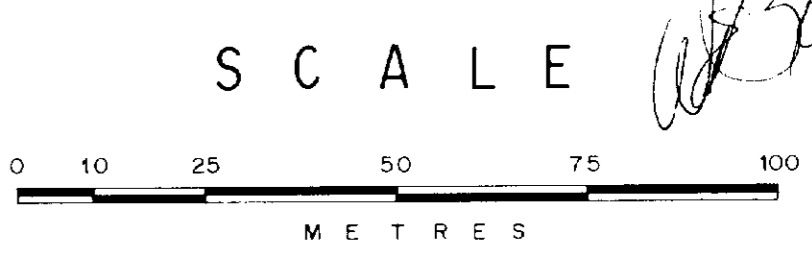


**LEGEND**

- 9** *Diorite*
  - 9a *fine-grained, strongly foliated biotite to quartz-biotite diorite*
  - 9b *medium-grained, moderately foliated quartz-biotite diorite*
- 6** *Chemical Sediments*
  - 6a *black chert, argillite*
- 4** *Metasediments*
  - 4a *fine-grained, well laminated quartz-mica (biotite, chlorite) gneiss, biotite gneiss, meta-quartzite, meta-arkose, narrow argillite laminae*
  - 4b *as above with abundant small quartz eyes*
  - 4c *amphibolite*
  - 4d *breccia (possibly volcanic)*
  - 4e *thinly bedded greywacke/argillite*

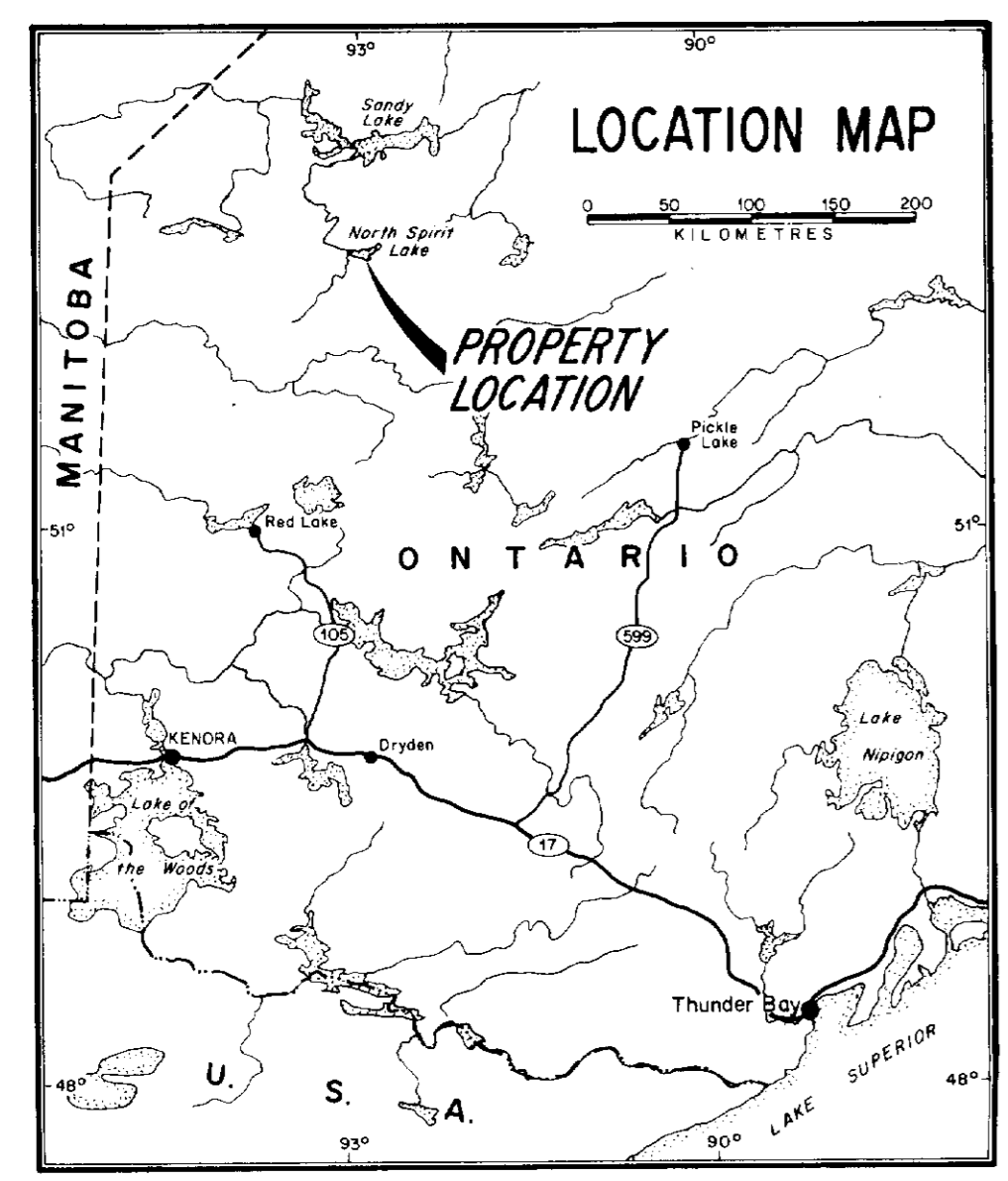
- x PBR-88-01 *Grab sample location*
- py *pyrite* sil *silicified*
- asp *arsenopyrite* q.v. *quartz vein*

*Traverse lines*



**ANALYTICAL RESULTS**

Sample Number	Cu(ppm), Au(ppb), As(ppm)	Sample Number	Cu(ppm), Au(ppb), As(ppm)
NSL-87-1	60 1000 490	PBR-88-1	61 3 580
87-2	42 240 72	88-2	130 72 15
87-3	110 420 460	88-4	730 520 290
87-4	200 71 560	88-5	24000 4200 100
87-5	80 34 48	88-6A	460 700 60000
87-6	57 44 50	88-6B	330 37 66000
87-7	120 120 16	88-8	53 13 250
87-8	— trace —	88-9A	83 1600 9400
87-9	110 6100 (0.17 oz./ton) 3600	88-9B	260 400 7200
87-10	92 6300 (0.18 oz./ton) 5400	88-10	130 910 11000
87-11	69 5200 (0.17 oz./ton) 22000	88-11	49 13 32
87-12	67 0.36 oz./ton 22000	88-12	57 8 140
87-13	140 6600 (0.21 oz./ton) 20000	88-13	41 3000 8200
		88-14	11 260 36000
		88-15	72 >10000 420 (0.74 oz./ton)



**PETROMET RESOURCES LTD.**  
 PONTON BAY GOLD PROPERTY  
 NORTH SPIRIT LAKE, ONTARIO  
**GEOLOGY & SAMPLING CLAIM 977537 AREA**

Project No: C-1138 By: W. E. Brereton  
 Scale: 1:1000 Drawn: A & N Cartographics  
 Drawing No: 1 Date: June 1988

**MPH** MPH Consulting Limited

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