



42A06NE0407 2.5931 DELORO

010

**REPORT ON A GEOCHEMICAL SURVEY
DELWOOD PROPERTY
DELORO TOWNSHIP**

**PORCUPINE MINING DIVISION
ONTARIO**

September, 1983

C. von Hessert & Associates
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R.M. Sproule
Geologist

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MINING LANDS SECTION



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- 1) Claim Map Deloro Township 1:15,840
- 2) Delwood Geochemical Survey 1:2,500

1. SUMMARY

The Delwood Property consists of a group of six contiguous unpatented mining claims located approximately 3.2 kilometers south of the Buffalo Ankerite property. The claims have been previously explored for gold in the mid-1930's. However, not much became of exploration attempts at that time.

The 1983 exploration program consisted of a soil and basal till geochemical exploration program. This work, which was conducted in June of 1983, has outlined areas of widespread but weak gold enrichment in a brecciated and carbonate altered volcanic rock, mapped by George Thomas (McGill Exploration) in 1982. Further work is recommended.

2. PROPERTY DESCRIPTION AND LOCATION

The Delwood property is made up of six contiguous unpatented mining claims situated in Deloro Township, in the Porcupine Mining Division, District of Cochrane, Ontario (Map 1).

The claims are numbered as follows:

P.594839
P.594840
P.594841
P.594842
P.594843
P.594844

The property is approximately eleven kilometers by road south east from downtown Timmins. Access is by paved road to the old Buffalo Ankerite head frame; then by gravel road towards the old Faymar mine site for a distance of approximately three kilometers. The claims are then 0.4 kilometers east and 0.8 kilometers north of

the old Faymar mine site.

The title holder of the property is Mr. Bruno Vatri of Mississauga, Ontario.

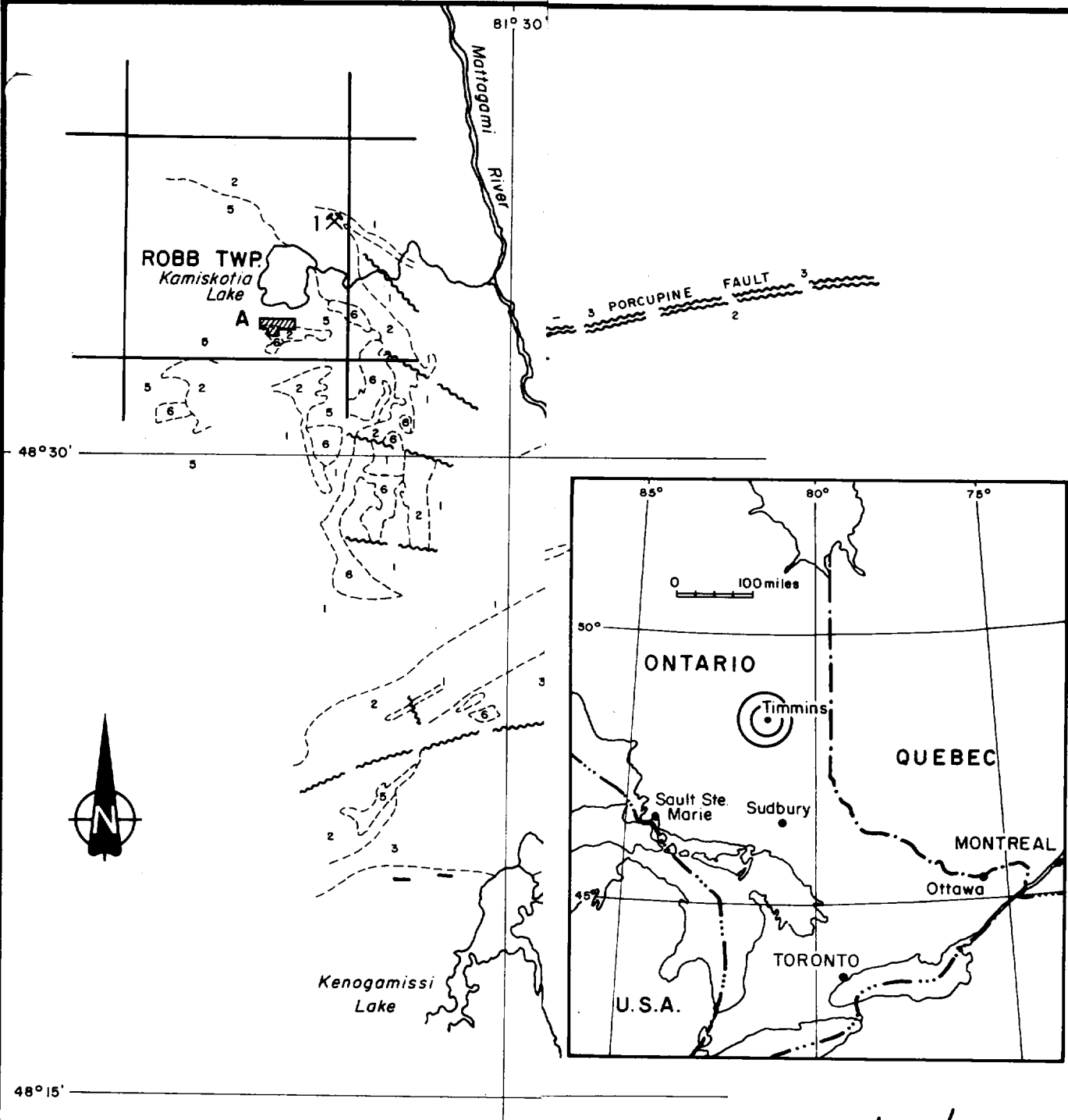
3. WORK HISTORY

The first recorded work on the property dates back to the mid-1930's when the Delwood Porcupine Mines held the property. This company diamond drilled 20 holes to test a lenticular body of iron formation that had yielded good results from trenching on surface.

A carbonate alteration zone containing mariposite was also located by this company. The zone was followed across two claims and was considered the only formation on the property to hold any promise.

The last recorded investigation of the property before Vatco became holder of the ground was carried out by Erie Canadian Mines Ltd. in 1940. This company's interest was spurred by the Faymar Mine's production.

Vatco Exploration became holder of the property in early 1981. While holding interest in the property Vatco commissioned linecutting, VLF-EM, magnetometer and geological surveys to be conducted on the property. A complete account of these surveys may be obtained from G.M. Thomas' 1981 report on the Delwood property. In essence, these surveys discovered geophysical anomalies which may be economically significant and re-identified the carbonate-altered, volcanoclastic, mariposite zone originally mapped by in Delwood Porcupine Mines.



- 9 Diabase
- 6 Acid intrusives
- 5 Basic & ultrabasic intrusives
- 4 Sedimentary - conglomerate
- 3 Undiff. sedimentary
- 2 Basic volcanics
- 1 Acid & intermediate volcanics

C. von Hessert

OPEX RESOURCES INC.

TIMMINS PROJECT

Porcupine M.D., Ontario

**PROPERTY LOCATION
and
REGIONAL GEOLOGY**

Prepared by: C. von Hessert	September 1983
Drawn by: R.T. Marcroft & Assoc.	FIG. No. 1

4. 1983 EXPLORATION PROGRAM

Geochemistry Program

This survey was conducted from June 4 - June 30, 1983. The survey took the form of a two part survey: 1) A soil geochemical survey, and 2) a basal till geochemical survey.

Soil Chemistry Survey

For this survey all lines including tie lines and the baseline were traversed and an attempt was made to obtain a "B" horizon soil sample at every 25 meter picket station. Soil was collected using a mattock. The collected sample was stored and air dried in a kraft paper bag. The average depth to the "B" horizon was found to be 20cm. Samples were collected, however, as shallow as 2cm and as deep as 50cm. The gold analysis for the samples may be found in certificate of analysis sheets in the Appendix or in the form of data plotted on Map 2.

Originally it was thought that because of the abundance of outcrop on the property that overburden would be shallow and well-drained and consequently that a reliable high density survey could be made. Poorly drained organic rich sites were found to be more common than was anticipated and the sample density fell sharply. The results of this survey as seen on Map 2 show a strong soil gold anomaly trend which is coincident with a carbonated brecciated volcanic unit (VC unit) on the western boundary of the property in claim 594842. There is also the indication of an anomalous zone at the north end of line 4 east. This anomalous zone corresponds to the flank of a magnetic high and to the edge of a possible VLF conductor.

Basal Till Geochemistry Survey

The purpose of the basal till survey was to test a strong VLF conductor located on lines 45+6E from 1+25 to 1+75N on trend with the soil geochemistry anomaly and sub-parallel with the VC rock unit. The overburden in this area is poorly drained and useful soil samples could not be obtained. A "Wacker" system drill was used for obtaining approximately 500 grams of basal till material. The Wacker system drill is very similar to a gas powered plugger but is not capable of turning the 1 meter rods. The bit on this system is a hollow bit which retains the final 20cm of unconsolidated material penetrated. Sample depths ranged from 1 to 10 meters with the average depth being 6 meters.

The basal till survey established an anomaly which trends in a north-east direction sub-parallel to the soil anomaly (see Map 3).

5. CONCLUSIONS

1. A soil geochemical anomaly occurs coincident with an outcrop of carbonate altered brecciated volcanic rock, a lithology which is characteristic to producing gold mines in the Timmins area.
2. A basal till geochemical anomaly occurs coincident with and sub-parallel to geophysical and soil geochemical anomalies.
3. Combined geophysical and geochemical anomalies along with a geologically encouraging carbonate altered volcanoclastic zone enhance the prospects of finding gold on this property.

6. RECOMMENDATIONS

1. A program of trenching and stripping should be carried out over the carbonate altered volcanoclastic rock trend. The purpose of this would be to determine the source of the gold which contributes to the soil and till geochemical anomalies.
2. Diamond drilling of the coincident geophysical basal till geochemical anomalies if encouraging results are obtained from the trenching program.

September, 1983

for C. von H essert
Rick Sproule
Geologist

7. REFERENCES

- Carlson, H.D. (1967), Geology of Ogden, Deloro and Shaw Townships, Ontario Department of Mines, O.F. No. 5012.
- Holbrooke, G.L. (1938), Short Report on Delwood Porcupine Mines Ltd. for Erie Canadian Mines Ltd. (Private Report).
- Holbrooke, G.L. (1940), Report on McLaren Porcupine Gold Mines Ltd.; Sylvanite Gold Mines Ltd. (Private Report).
- Pyke, D.R. (1981), Relationship of Gold Mineralization to Stratigraphy and Structure in Timmins and Surrounding Area, p. 1-15 in Genesis of Archean Volcanic Hosted Gold Deposits, Ontario Geological Survey, Paper 97.
- Thomas, G.M. (1981), Report on Exploration, Delwood Property (Private Report).

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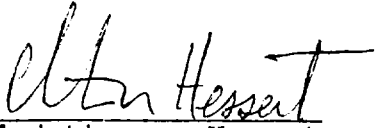
October 17, 1983

Mining Recorder
Ministry of Natural Resources
Timmins

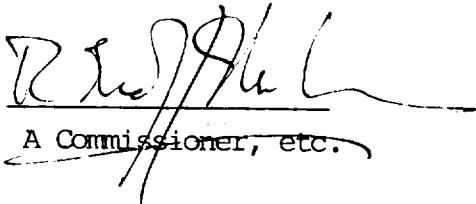
Gentlemen:

I affirm that Vatco Explorations Inc. expended the following sums for assessment purposes on the following properties:

<u>TOWNSHIP/CLAIMS</u>	<u>TYPE OF WORK</u>	<u>EXPENDITURES</u>
Deloro/P594839-594844	Soil and basal till geochemistry	\$5935.00
Deloro/P529005,6 and 530598,9 and 567521,2	Geochemical	5914.70
Macklem/P530211-530222	Overburden drilling	3938.75


Christian von Hessert
Exploration Manager for Vatco Explorations

Declared before me at the City
of Toronto
this 17th day of
October, 1983


A Commissioner, etc.

227

2.5931

1983 10 28

Mining Recorder
Ministry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

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 594839 et al in the Township of Deloro.

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 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-1380

A. Barr:mc

cc: Bruno Vatri
Unit 16
5550 Tomken Road
Mississauga, Ontario
L4W 1P2

cc: Richard M. Sproule
c/o C. von Hessert & Associates
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49 Wellington Street East
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Christian von Hessert
Exploration Manager for Vatco Explorations

Declared before me at the City
of Toronto
this 17th day of
October, 1983


A Commissioner, etc.

DELORO

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 20 CHAINS

LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOANED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- MINOR HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED
- PATENTED S.R.O.
- REGISTERED PLAN OF SUBDIVISION

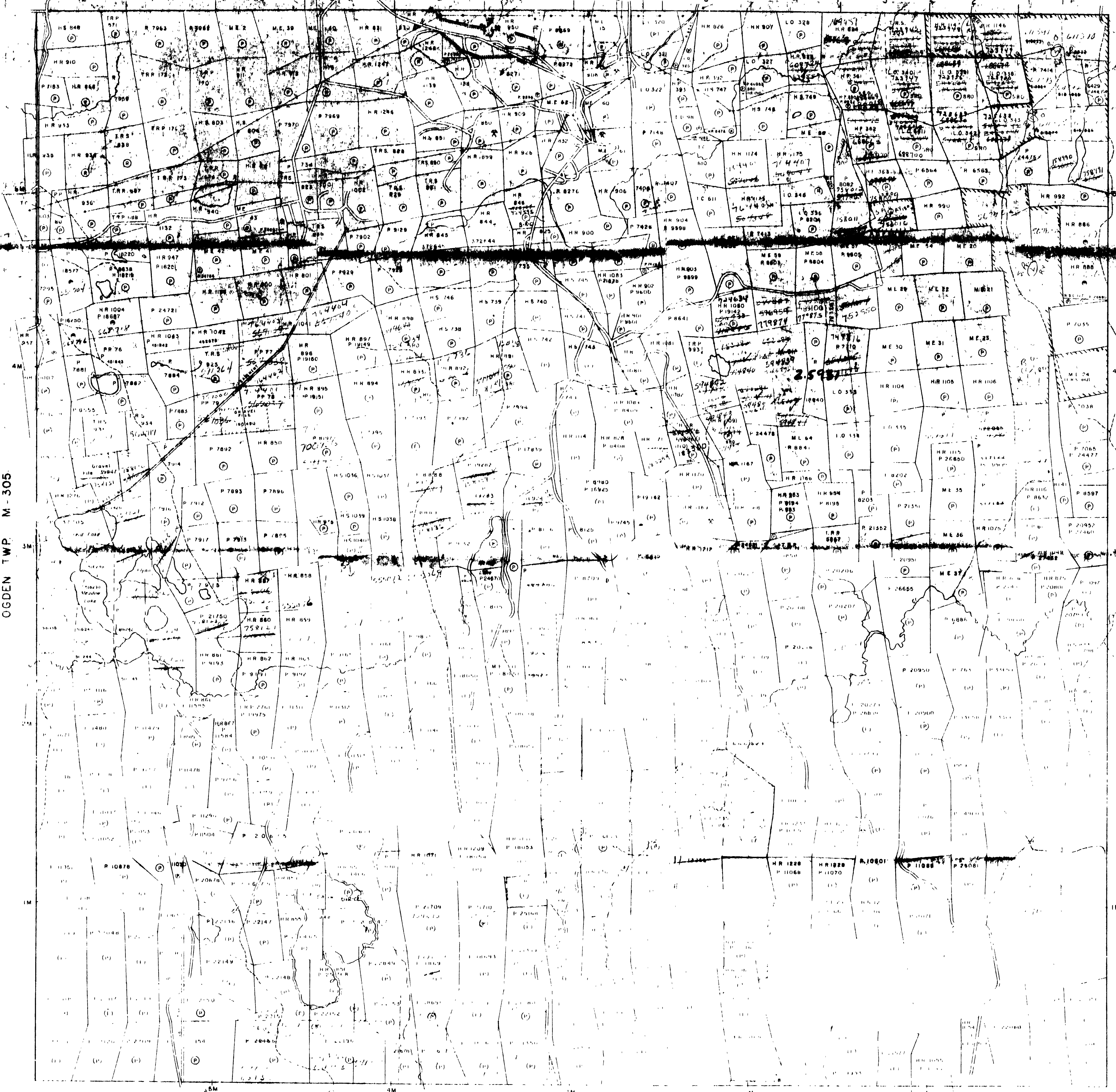
NOTES

400' Surface Rights reservation along the shore of all lakes and rivers

For status of location situated between Mine No. HR 1132, HR 947 B, ME 42 see File No. 119653

Mining claims within the area shown are subject to rights & privileges granted under Easement Order dated May 19, 1937 in Ontario Ltd.

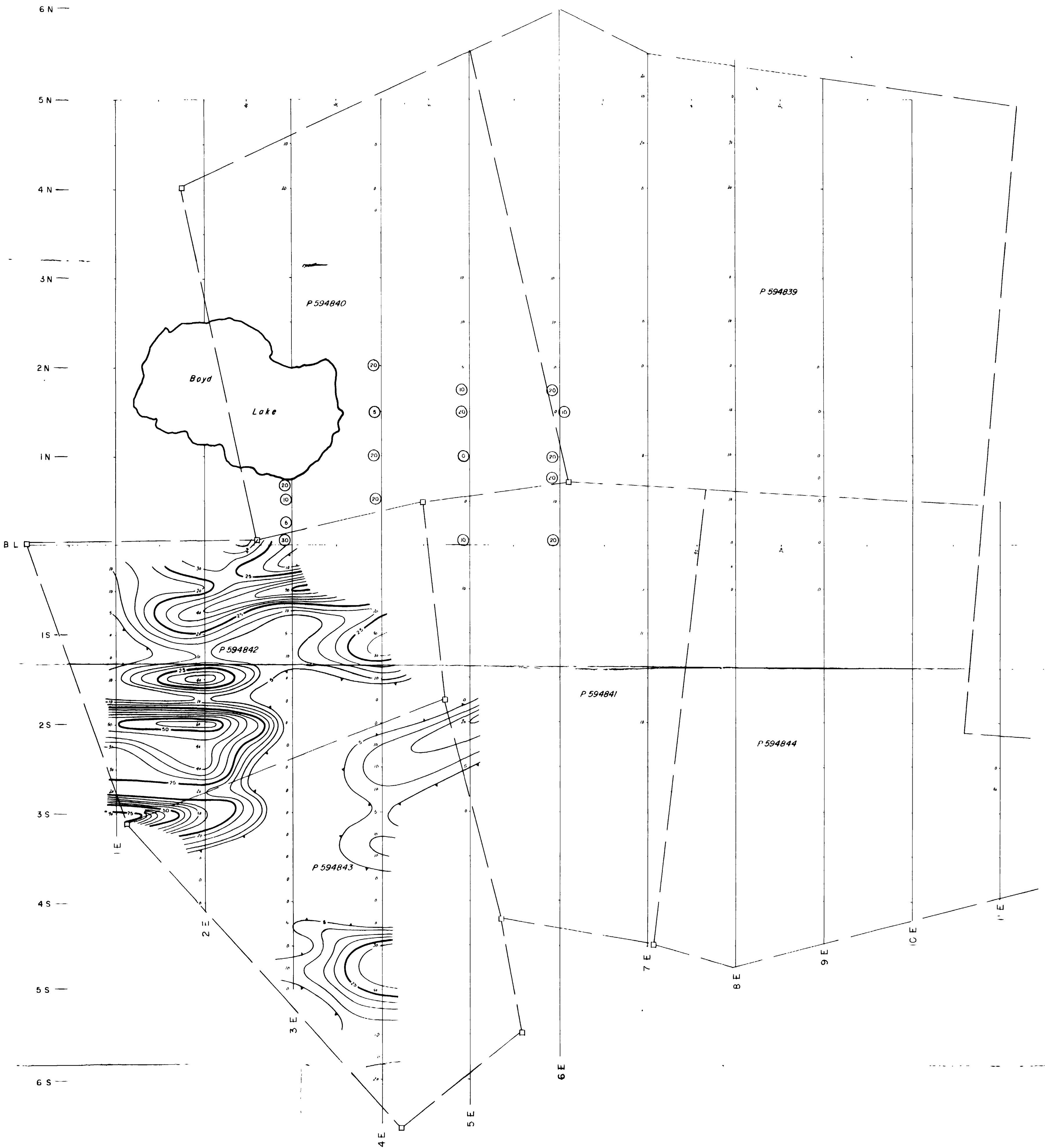
This township lies within the Municipality of CITY OF TIMMINS



OGDEN TWP. M-305

SHAW TWP. M-311



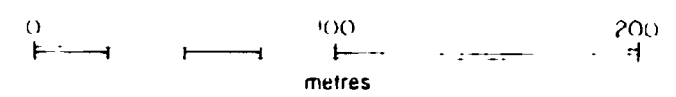
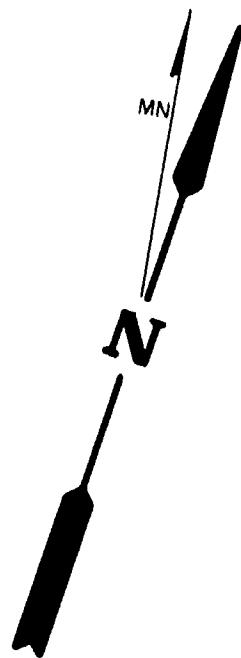


LEGEND

Gold value in PPB at 'B' soil horizon
from geochemical analysis

Gold value in PPB of 'Walker'
overburden sample

Contour line (5 ppb intervals)



VATCO EXPLORATION INC <i>C. M. Henault</i>	
VATRI PROJECT- DELWOOD PROPERTY	
Deloro Township, Porcupine Mining Division, Ontario	
GEOCHEMICAL SURVEY	
Prepared by R. Sproule	SCALE 1:2500
Drawn by R. T. Marcroft	August 1983 Drawing No. 25931 orig.