



42A06NE0408 2.5928 DELORO

010

**REPORT ON THE 1983 FIELD PROGRAM  
BIG DYKE PROPERTY  
DELORO TOWNSHIP  
  
PORCUPINE MINING DISTRICT  
ONTARIO**

September, 1983

C. von Hessert & Associates  
49 Wellington Street East  
Toronto, Ontario  
M5E 1C9

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**OCT 21 1983**

**MINING LANDS SECTION**

(416) 863-6796

R.M. Sproule  
Geologist



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Map in back pocket:

Soil Geochemistry @ 1:2,500

1. **SUMMARY**

The Big Dyke property is made up of a group of six contiguous unpatented mining claims located in eastern Deloro township, approximately 9 kilometers by road southwest of the town of South Porcupine.

The first recorded work performed on the property was done by Big Dyke Consolidated Gold Mining in the early 1920's. Work performed at that time included trenching and sinking a few shallow (10 - 80 feet) shafts. Following that activity little work has been recorded.

As follow-up to geologic mapping and geophysical (VLF and MAG) programs conducted for Vatco Exploration Inc. in 1981, a soil geochemistry program was conducted this year.

This 1983 soil geochemistry program, which was conducted over the most geologically promising portion of the property, outlined two anomalous zones.

Grab samples of a carbonate altered iron formation taken from loose trench material yielded gold assays as high as 0.30 ounces gold per ton. Further work is recommended.

2. **PROPERTY DESCRIPTION AND ACCESS**

The property consists of six contiguous unpatented mining claims situated in east central Deloro Township in the Porcupine Mining Division, District of Cochrane, Ontario (see Figure 1).

The claims are numbered as below:

P.529005

P.529006

P.567521

P.567522

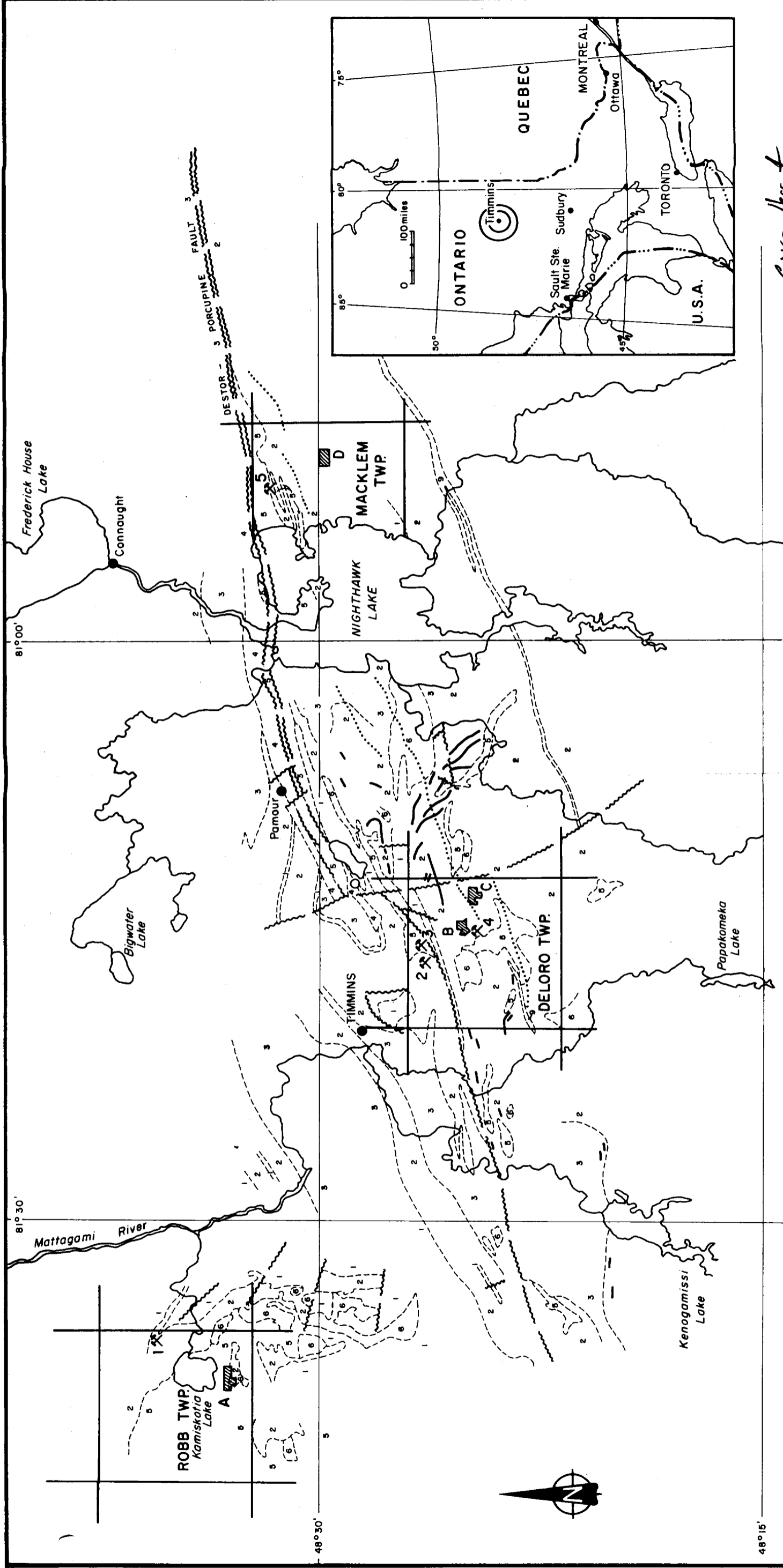
P.530598

P.530599

The Big Dyke property is approximately 10 kilometers southeast of Timmins as measured on NTS sheet 42 A/6. Access to the property is gained by following the Langmuir Road south from South Porcupine for a distance of approximately 5.5 kilometers. At this point a right turn is made onto an old logging road. This road is followed southwest for approximately 3.5 kilometers. This old road crosses the south end of claims P.530599 and 529006 (see Map 1).

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

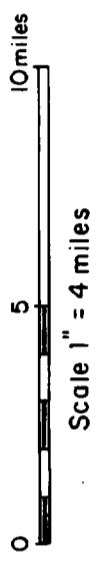
The first recorded exploration on the Big Dyke claims occurred in the early 1920's. It was at this time that Big Dyke Consolidated Gold Mines carried out a program of trenching and shaft sinking. These activities were conducted to test for gold mineralization in a quartz carbonate dike which runs northeast, crossing the boundary of claims P.529005 and 530598. Attention was also given to iron formations with associated sulphides and carbonates which outcrop on the claims. These iron formations also trend in a northeast direction and transgress the south end of claim 529005. Other than a promise to do underground development as soon as funds were raised, no additional work was reported by Big Dyke Consolidated Gold Mines. The property became open when the company's charter was cancelled in 1961. Since then the property has changed hands among local prospectors with little new work being recorded.



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

- Geologic contact
- Fault
- Iron formation
- Mines :-
  - 1 Kam - Kotia
  - 2 Aunor
  - 3 Buffalo - Ankarite
  - 4 Faymar
  - 5 Asarco

- CLAIM GROUPS :-
- A KAMISKOTIA PROPERTY
- B DELWOOD PROPERTY
- C BIG DYKE PROPERTY
- D MACKLEM PROPERTY



*C. von Hesser*

**OPEX RESOURCES INC.**

**TIMMINS PROJECT**

**Porcupine M.D., Ontario**

**PROPERTY LOCATION**  
**and**  
**REGIONAL GEOLOGY**

Prepared by: C. von Hesser  
September 1983

Drawn by: R. T. Marcroft & Assoc.  
FIG. No. 1

### 3. 1983 EXPLORATION PROGRAM

#### Soil Geochemistry

The current program was designed to assess the potential for gold mineralization in the most geologically promising portion of the claims as revealed by geological surveys conducted for Vatco in 1981.

The 1983 survey was conducted during the period June 9 to June 20, and used a pre-existing grid. The grid had a line spacing of 50 meters with sample stations every 25 meters. "B" horizon soil samples were collected using a mattock at an average depth of 25 cm, stored in Kraft sample bags, and subsequently analysed for gold at Swastika Labs. Results of this work are plotted on Map 2. Certificates of analysis are included in the Appendix to this report.

The numbers on Map 2 are raw analytical data. Circles of varying sizes representing a range of values into which a particular sample fell have been plotted on Map 2 for easy visual interpretation. A reasonable interpretation of the data on the map indicates that two anomalous zones have been located; one in the west central portion of claim P.530599 and the other in the northeastern part of claim P.529005. Other anomalous sample sites do occur throughout the grid, though these are isolated.

The anomalous zones correlate with mapped outcrops of intermediate volcanics and the edges of magnetic highs. However, in areas where high rock geochemical assays were returned, the soils did not show corresponding high values.

The rock analyses indicated on the map are assays of loose trench and pit samples collected during the course of the soil sampling program. Worthy of note is the fact that the sample site which

yielded the highest assay (0.23 oz Au/ton) was revisited and sampled and higher assay was returned (0.30 oz Au/ton). These assays were obtained from samples of pyrite rich carbonate altered iron formation.

This particular band of iron formation was found in two outcroppings over 300 meters apart. A sample was collected from the second outcrop; it was assayed as carrying .002 ounces gold/ton.

#### 4. CONCLUSIONS

- 1) Strong (0.30 oz Au/ton) consistent assay values are obtained from a portion of the iron formation found on the property. This iron formation with abundant disseminate pyrite is assumed to be continuous for a distance of at least 300 meters. From field data gold mineralization is not uniform, over the 300 meters. This formation may host a series of possibly economic gold enriched lenses.
- 2) Soil geochemical anomalies occur in conjunction with intermediate volcanics and the edges of magnetic high anomalies.

#### 5. RECOMMENDATIONS

- 1) Due to the abundant disseminated sulphides found in the iron formation and the position of soil geochemical anomalies close to the edges of magnetic highs and the assumed relatively thin cover of overburden, an I.P. survey should be carried out over the grid. This survey should; prove the continuity of the iron formation; provide information about the nature of the mag highs associated with the geochemical

anomalies; and possibly find more pyrite rich lenses which might host gold mineralization of economic potential.

- 2) Diamond drill: i) the iron formation to test the continuity of gold mineralization within the iron formation; ii) zones of high potential as would be indicated in a compilation of I.P., EM, magnetics and soil geochemistry.

September 30, 1983

*C. von H essert*  
*for*  
\_\_\_\_\_  
Rick Sproule  
Geologist



**6. REFERENCES**

- Carlson, H.D. (1967), Geology of Ogden, Deloro and Shaw Townships, Ontario Department of Mines, O.F. 5012.
- 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, Big Dyke Property (Private Report).



Ministry of  
Natural  
Resources

**Report of Work**  
(Geophysical, Geological,  
Geochemical and Expenditures)



42A06NE0408 2.5928 DELORO

900

#220 P-529005

The Mining Act [a... 00] Do not use shaded areas below.

Type of Survey(s) <b>GEOCHEMICAL</b>		Township or Area <b>DELORO TWP.</b>	
Claim Holder(s) <b>BRUNO VATRI</b>		Prospector's Licence No. <b>M21337</b>	
Address <b>UNIT 16 5500 TORRAN ROAD MISSISSAUGA ONT. L4W-1P2</b>			
Survey Company <b>G VON HESSERT &amp; ASSOC</b>	Date of Survey (from & to) 8   6   83   16   6   83 Day   Mo.   Yr.   Day   Mo.   Yr.		Total Miles of line Cut
Name and Address of Author (of Geo-Technical report) <b>RICHARD M. SPROULE 9/0 G. VON HESSERT &amp; ASSOC. SEE 200 49 WELLINGTON SE. E. TORONTO M5E-1C9</b>			

Credits Requested per Each Claim in Columns at right		
Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)			Mining Claims Traversed (List in numerical sequence)		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	529005	65.760			
	529006	65.760			
	530598	65.760			
	530599	65.760			
	567521	65.760			
	567522	65.760			

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SEP 6 1983  
MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed  
**GEOCHEMICAL**

Performed on Claim(s) **220 P-529005**

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AUG 23 1983 P.M.

Calculation of Expenditure Days Credits	Total Days Credits
Total Expenditures \$ <b>5928.10</b>	÷ <b>15</b> = <b>394.3</b>

Instructions  
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 Cr. Recorded <b>360</b>	Date Recorded <b>Aug 23/83</b>
Date Approved as Recorded <b>84.3.2</b>	Signature <i>[Signature]</i>

Total number of mining claims covered by this report of work. **6**

Date <b>August 19/83</b>	Recorded Holder or Agent (Signature) <i>[Signature]</i>
-----------------------------	--

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying  
**RICHARD M. SPROULE 9/0 G. VON HESSERT & ASSOC. SEE 200 49 WELLINGTON SE. E. TORONTO ONT M5E 1C9**

Date Certified <b>August 22/83</b>	Certified by (Signature) <i>[Signature]</i>
---------------------------------------	--



1983 10 28

2.5928

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

Dear Sir:

We have received data for a Geochemical survey submitted under Section 77(19) of the Mining Act R.S.O. 1980 for mining claims P 529005 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: Mr. Bruno Vatri  
Unit 16  
5500 Tomken Road  
Mississauga, Ontario  
L4W 1P2

cc: Mr. Richard M. Sproule  
c/o C. von Hessert & Associates  
Suite 200  
49 Wellington Street East  
Toronto, Ontario  
M5E 1C9

CHRISTIAN VON HESSERT  
CONSULTING GEOLOGIST  
SUITE 200 - 49 WELLINGTON STREET EAST  
TORONTO, ONT. M5E 1C9

(416) 863-6796

October 17, 1983

Mining Recorder  
Ministry of Natural Resources  
Timmins

Gentlemen:

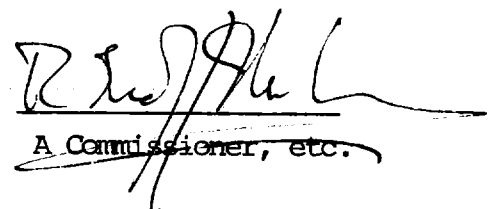
I affirm that Vatco Explorations Inc. expended the following sums for assessment purposes on the following properties:

<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.

CHRISTIAN VON HESSERT  
CONSULTING GEOLOGIST  
SUITE 200 - 49 WELLINGTON STREET EAST  
TORONTO, ONT. M5E 1C9

(416) 863-6796

October 18, 1983

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

Dear Sir:

Please find enclosed duplicate reports for 1. Vatco properties  
in Timmins. I trust you will find everything in order.

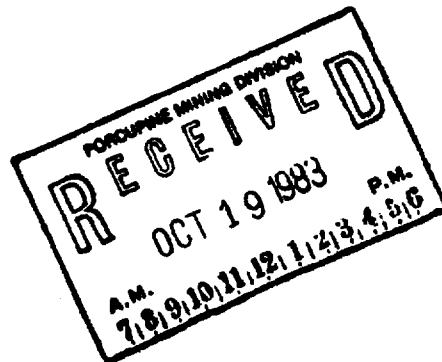
Sincerely,

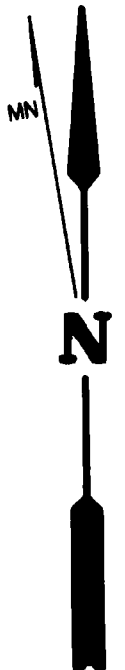
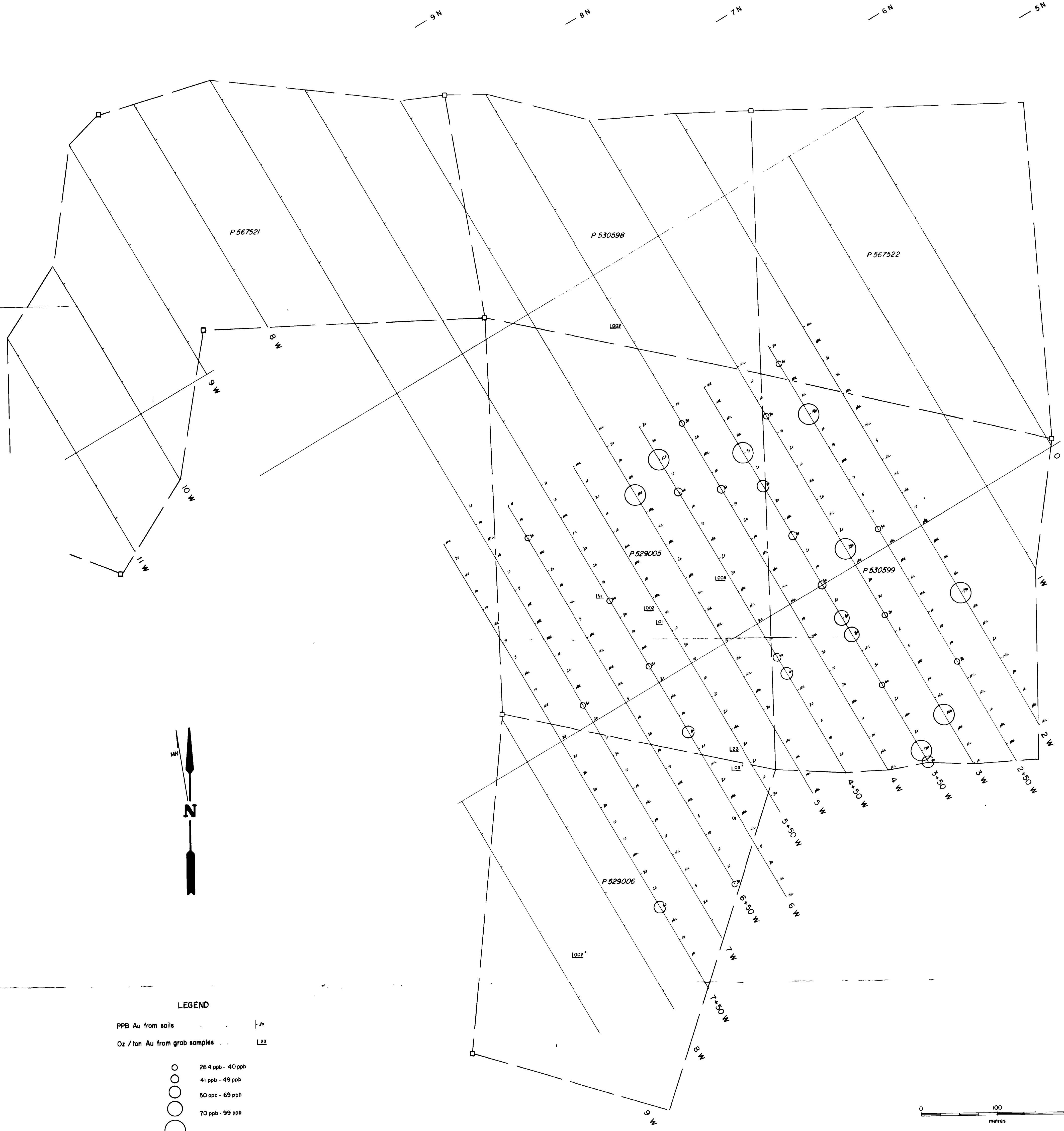


Christian von Hessert  
Consulting Geologist

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OCT 21 1983  
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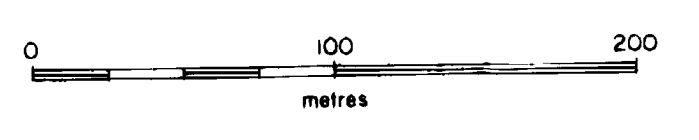
enclosure:





**LEGEND**

PPB Au from soils	L22
Oz / ton Au from grab samples	L23
	26.4 ppb - 40 ppb
	41 ppb - 49 ppb
	50 ppb - 69 ppb
	70 ppb - 99 ppb
	>100 ppb



200

*C. M. Hout*

VATCO EXPLORATION INC.

**BIG DYKE PROPERTY**  
Deloro Township  
**SOIL GEOCHEMISTRY**

Prepared by: R Sproule  
Drawn by: R T Marcroft

August 1983

SCALE 1:2500  
Drawing No. 25928