



S2F14SW8160 2.2668 TEMPLE

010

EXAMINATION

F. O. B. MINING & EXPLORATION LTD.

BOTTLE BAY LAKE PROPERTY

N.T.S. 52-F-14

"RADIOACTIVE SHOWINGS"

DECEMBER 11, 1974

L. J. NELSON

EXAMINATION OF THE F. O. B. MINING & EXPLORATION LTD. PROPERTY

(F. BROENNE, W. RANTA, AND D. PETRINKA)

BOTTLE BAY LAKE - N. T. S. 52-F-14

INTRODUCTION:

On November 21, 1974 a trip was made to Vermilion Bay, Ontario with Gordon Trimble and Richard Middaugh to examine a group of 72 claims (Map #1 and #2) held by F. O. B. Mining and Exploration Ltd., (F. Broenne Thunder Bay, President). The purpose of the visit was to examine several, hitherto unknown, radioactive pegmatite-granite showings. On November 22nd and 23rd the many pits in the area were examined with a geiger counter and a Model TV-5 Scintillometer. It should be noted that the area at this time was covered with a six inch snowfall which hampered a thorough visual examination of the many outcrops.

GENERAL GEOLOGY:

The claim area encloses a large granite mass flanked on the east, west and south sides by sediments as shown on the enclosed Geology Map (Map #3). The area was mapped by the O. D. M. in 1939 by W. W. Moorhouse (Map No. 48 d - Eagle Lake Area).

BRIEF DESCRIPTION OF SHOWINGS (See Map #4 and Map #5)

<u>PIT NO.</u>	<u>ROCK TYPE</u>	<u>RADIOACTIVITY</u>	<u>WIDTH OF RADIOACTIVITY</u>
1.	Medium to coarse grained red granite	Moderate to strong	1 Foot
2.	Medium to coarse pink granite	Weak to moderate	2' - 3' wide
3.	Coarse reddish-pink to pink pegmatite - 3% - 5% biotite	Weak to strong	1' - 3' wide erratic
4.	Pinkish white pegmatite	Weak to moderate	4'
* 5.	Pinkish red granite - some salmon pink pegmatite phases	Strong	4' - 5'
6.	Coarse white pegmatite	Weak	15'
* 7.	Pinkish red granite to pegmatitic	Moderate to strong	20'

\* Note - Best Showings

SHOWINGS:

A large percentage of the showings occur within two areas, each trending North - East as shown on Map #4. Radioactivity occurs dominantly within a pegmatitic host rock. In some of the pits the host rock appears as a coarse grained red granite grading in places to syenite. Radioactivity found within this latter rock type always gave a higher geiger response than the more pegmatitic material. The radioactive pegmatites range from a very coarse white to a coarse pink and salmon-pink colour with the former giving a weak and the latter a moderate geiger response.

PITS #5 AND #7:

Of the many showings the best were Pits 5 and 7 (see Map #6 and #7 respectively). These occur within a pinkish-red granite to syenite grading to a pegmatite.

Pit #5 has a strike length of 200 feet extending North-East from the pit. The average width of radioactivity is from 4 to 5 feet. The radioactivity may or may not be continuous over this length as overburden along this strike length masks the detection of radioactivity.

A hole was blasted into this showing from which a bulk sample of 35 - 40 pounds of rock were sent by Falconbridge for assay (0.075%  $U_3 O_8$  chem. total).

Pit #7 occurs within the same rock type as Pit #5. This showing was the widest of all the pits, approximately 20 feet. The middle 10 feet contains high radioactivity. A 50 - 55 pound bulk sample of rock was also collected along this 20 foot section and sent for assay (0.044%  $U_3 O_8$  chem. total).

RECOMMENDATIONS:

The property was difficult to evaluate due to the six inch snowfall. The best thing going for the property is that it is a new occurrence and has not been thoroughly prospected. Many of the pits had only recently been found. During the staking, Bob Penny and Richard Middaugh noticed several additional areas of yellow uranium oxide along the north portion of the claim group. It would be safe to assume that additional areas of radioactivity may be found within the claim group.

Assays from the best showings (i.e. high geiger response) were not that good (Pit #5 0.075%  $U_3 O_8$  ; Pit #7 0.044%  $U_3 O_8$  chem total). Grab samples from various locations on the property which gave a very low geiger response resulted in assays of 0.016%, 0.030% and 0.020%  $U_3 O_8$  chem. total. This would indicate that a high geiger response does not necessarily correlate with a good  $U_3 O_8$  assay. Therefore the radioactivity is likely caused by potassium in the feldspar.

The most logical approach at the moment is to get a reasonable deal to prospect the area after the snow has gone.

DECEMBER 11, 1974.

*L J Nelson*

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L. J. NELSON

COMPLETE ANALYSIS AND ASSAYING  
GRIMETRIC URANIUM

ACCTLG



CHEMICAL - SPECTROGRAPHIC - MICROSCOPIC

WM. GERRIE, M.A.  
D. KERR-LAWSON, B.A., PH.D.

# CORRELATION LABORATORIES LTD.

M. E. WELLER, B.A.  
H. E. WELLER

R.R. 6 COBDEN, ONTARIO    PHONE 646-7448 (AREA 613)

Report # 11046    Nov. 30, 1974.

For Falconbridge Nickel Mines Ltd.  
Thunder Bay, Ont.

No.	% $U_3O_8$ (Chem., Total)
5726	0.075
5727	0.044

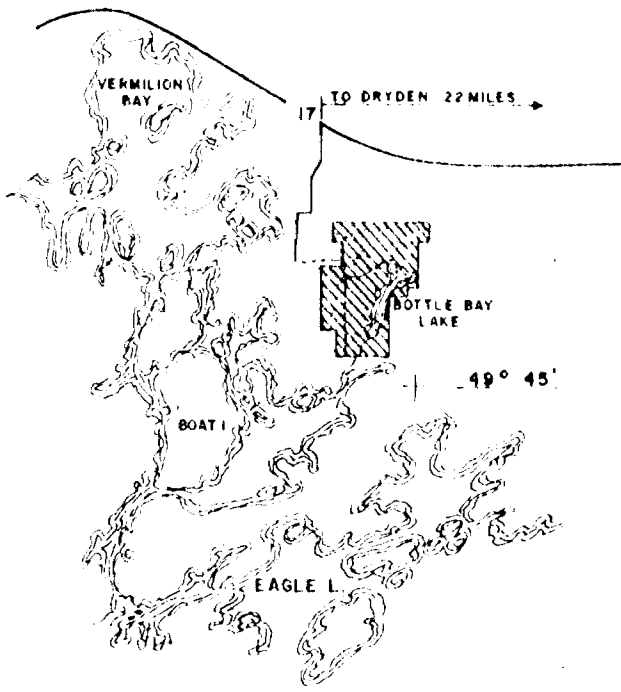
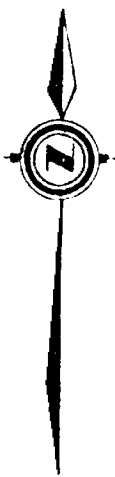
Correlation Labs. Ltd.

Per :

H. Weller

93° 30'  
90° 00'

93° 15'  
90° 00'



49° 45'

49° 45'

**SYMBOLS.**

- HARD SURFACE ROAD
- ALL WEATHER ROAD
- GRAVEL ROAD

MAP No. 1 of

FALCONBRIDGE NICKEL MINES LTD.

BOTTLE BAY LAKE AREA.

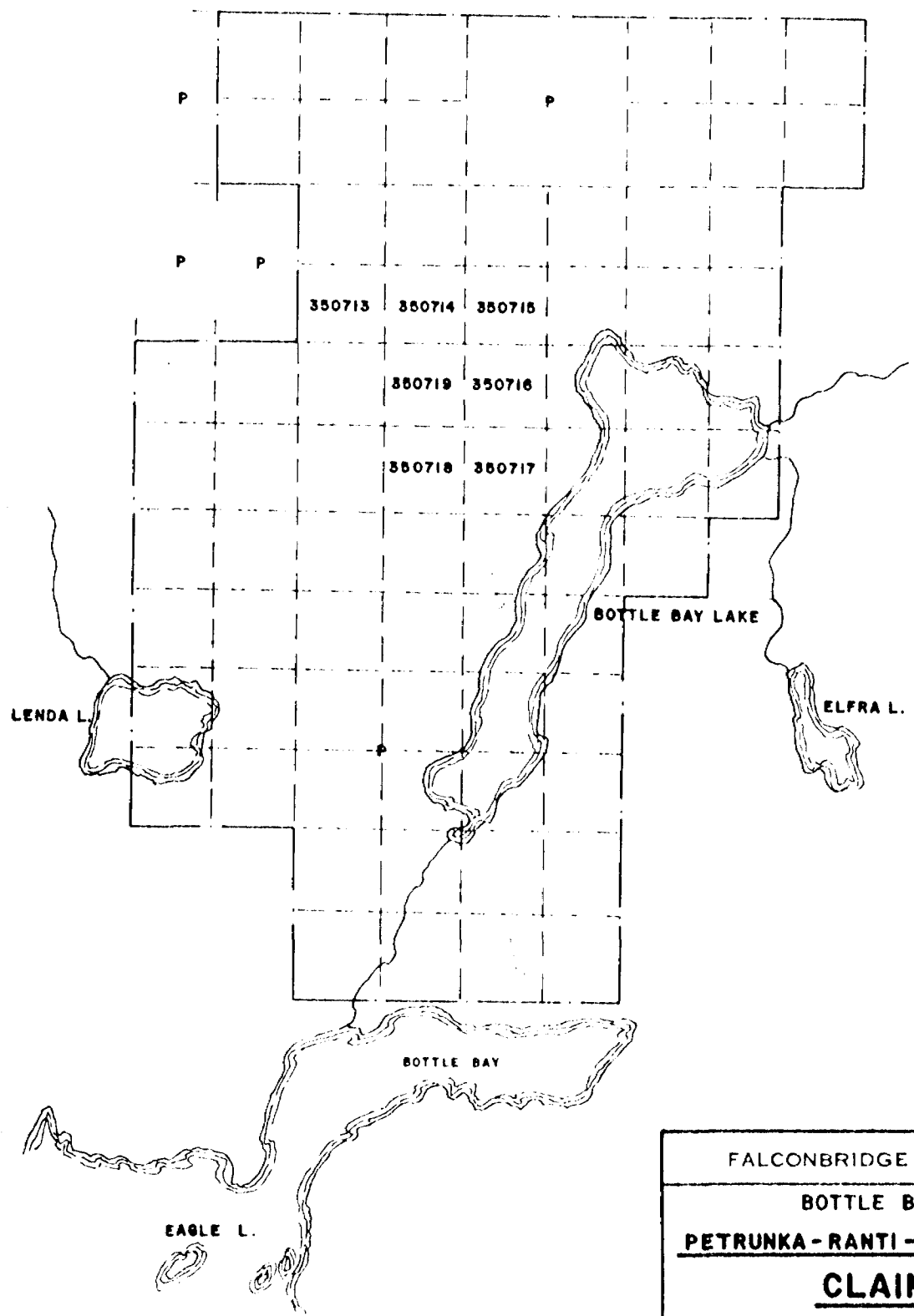
**PETRUNKA - RANTI - BROENNLE PROPERTY.**

**LOCATION MAP**

SCALE 1" = 4 MILES  
DATE DEC. 2, 1974

DRAWN E. BUHL  
N.T.S. 52 - F - 14

CANADIAN PACIFIC



MAP No. 2 of 7

FALCONBRIDGE NICKEL MINES LTD.

BOTTLE BAY LAKE AREA.

PETRUNKA - RANTI - BROENNLE PROPERTY.

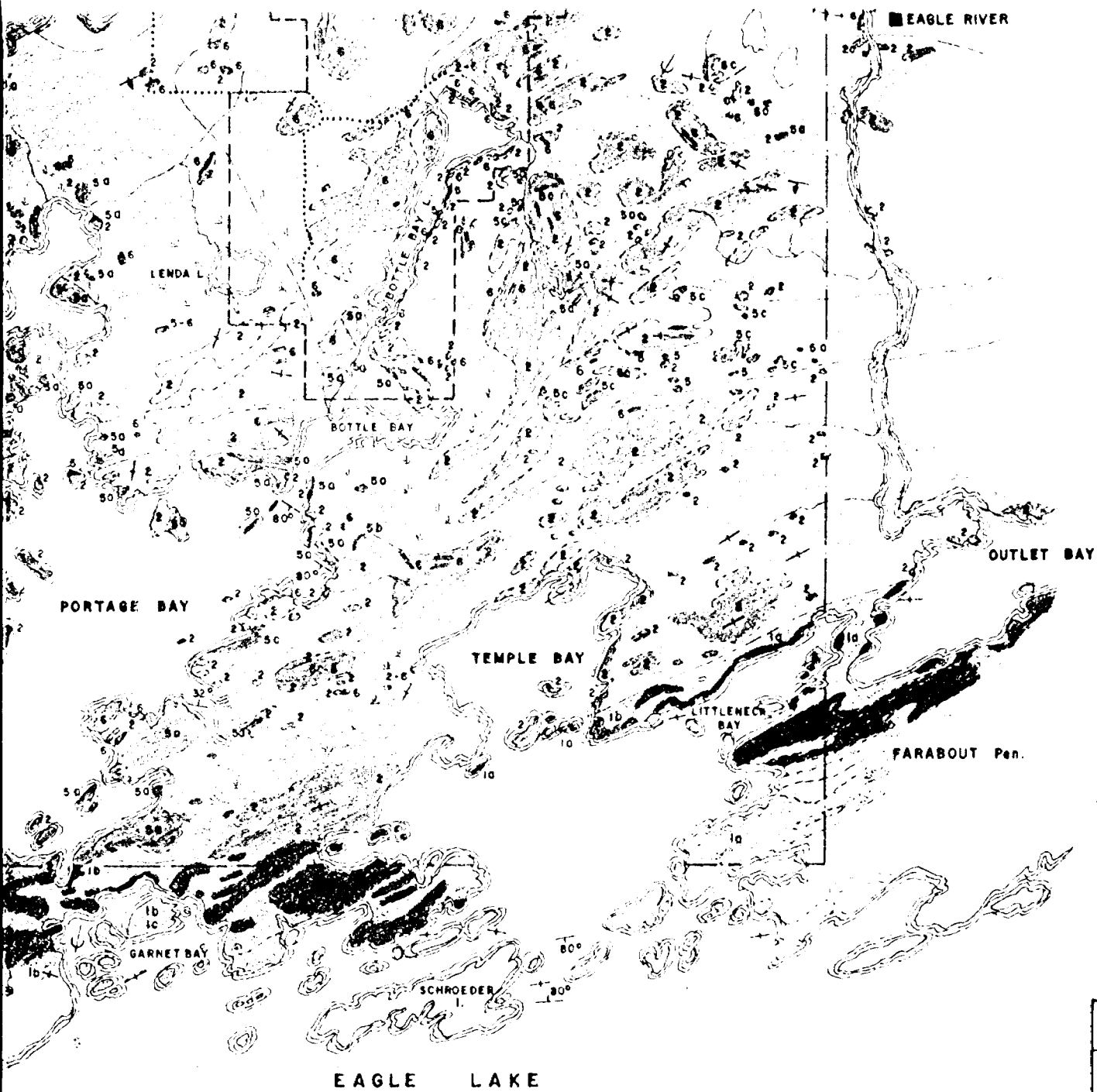
**CLAIM MAP**

SCALE 1" = 1/2 MILE

DRAWN E. BUHL

DATE DEC 8 74

N.T.S. 52 - P - 14



**LEGEND.**

- ALGOMAN?**
- 6 PINK PEGMATITE GRANITE
  - 5 PINK OR WHITE, NORMAL BIOTITE AND HORNBLEND GRANITE
  - 5a BASIC GRANITE, SYENITE, GRANODIORITE DIORITE
  - 5b SHEARED OR ONEISSIG GRANITE
  - 5c OCCURRENCES OF 5a/5b
- TIMISKAMING?**
- 2 SEDIMENTS: GREYWACKE, SLATE, QUARTZITE
- KEEWATIN**
- 1 MASSIVE LAVAS, ALTERED ANDESITE, BASALTS ECT.
  - 1a PILLOW LAVA
  - 1b BASIC INTRUSIVES AND COARSE FLOWS
  - 1c CHLORITE SCHIST

**LEGEND.**

- ... GRAVEL ROAD
- CLAIM GROUP
- MUSKEG OR SWAMP
- - - GEOLOGICAL BOUNDARY APPROXIMATE
- BOUNDARY OF ROCK OUTCROP
- + - STRIKE AND VERTICAL DIP OF STRATUM
- 20° STRIKE AND DIP OF STRATUM
- ← GLACIAL STRIAE

MAP No. 3 of 7

FALCONBRIDGE NICKEL MINES LTD.	
BOTTLE BAY LAKE AREA.	
<b>PETRUNKA-RANTI-BROENNLE PROPERTY,</b>	
<b>GEOLOGY.</b>	
SOURCE OF INFORMATION O.D.M. - Map No. 48d.	
SCALE 1" = 1 MILE	DRAWN E. BUHL
DATE DEC. 4.74.	N.T.S. 62-F-14





Mislocated.  
See Krenko 1976 1" = 400'

All showings mislocated  
with respect to claims

1 = M  
2 = I  
3 = O  
4-5 = F

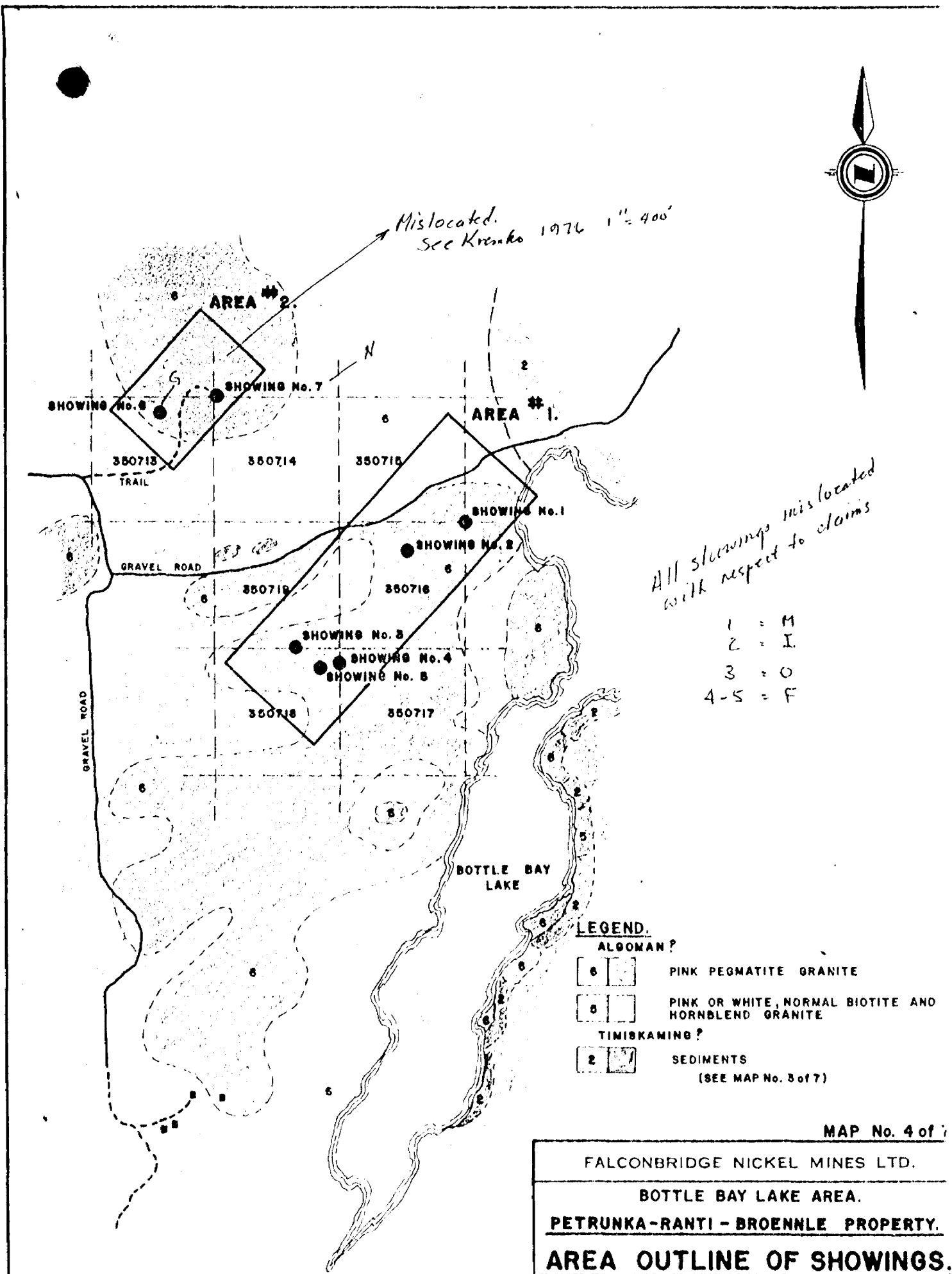
**LEGEND.**

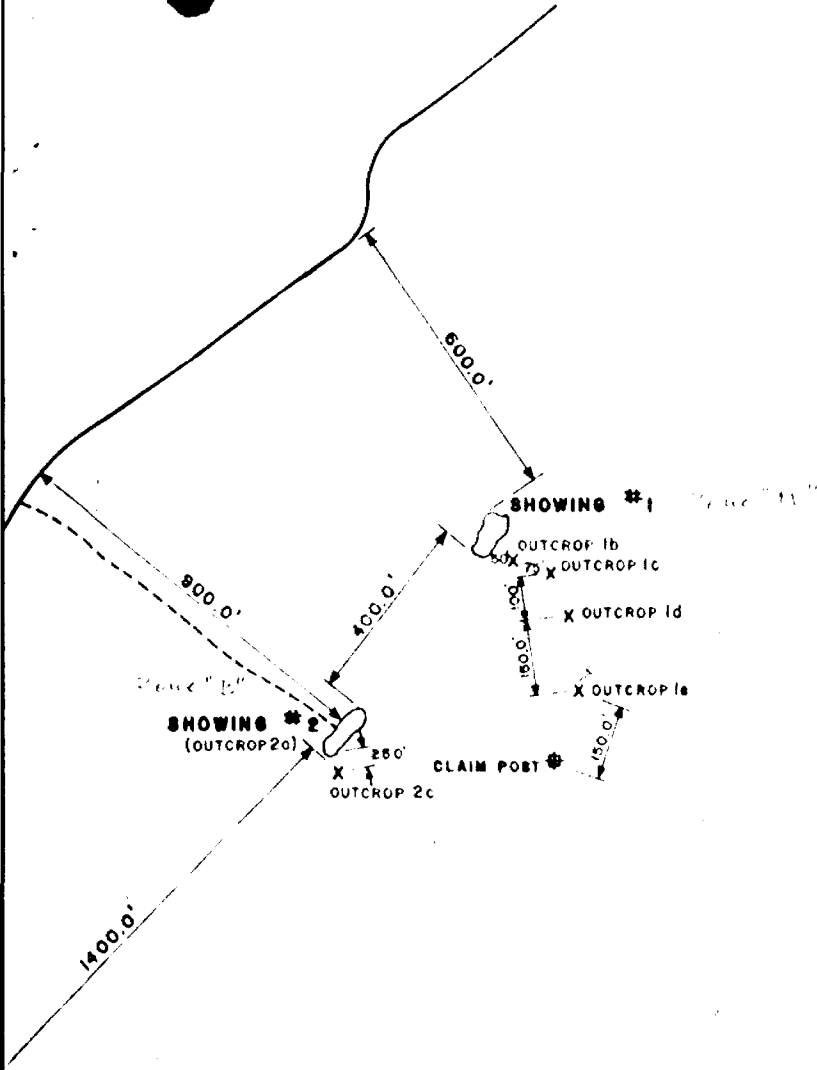
- ALGOMAN?**
- 6 [ ] PINK PEGMATITE GRANITE
  - 8 [ ] PINK OR WHITE, NORMAL BIOTITE AND HORNBLEND GRANITE
- TIMISKAMING?**
- 2 [ ] SEDIMENTS  
(SEE MAP No. 3 of 7)

MAP No. 4 of 7

FALCONBRIDGE NICKEL MINES LTD.  
BOTTLE BAY LAKE AREA.  
PETRUNKA-RANTI - BROENNLE PROPERTY.  
**AREA OUTLINE OF SHOWINGS.**

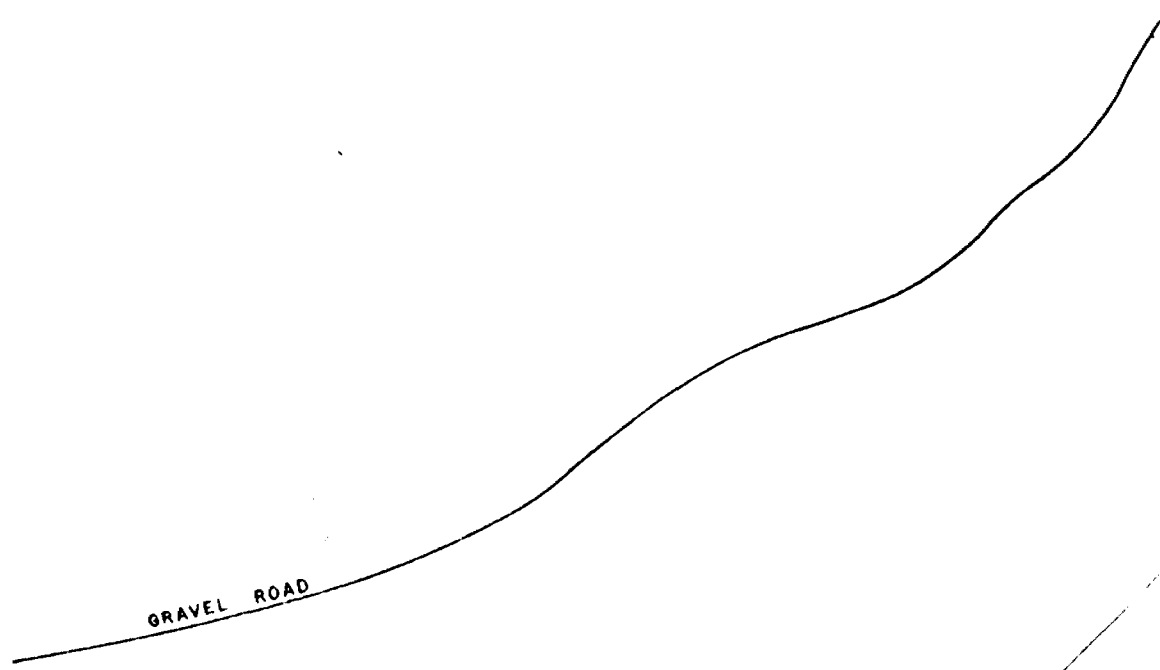
SCALE 1" = 1/4 MILE      DRAWN E. BUHL  
DATE DEC 6 74      N.T.S. 02-1-14



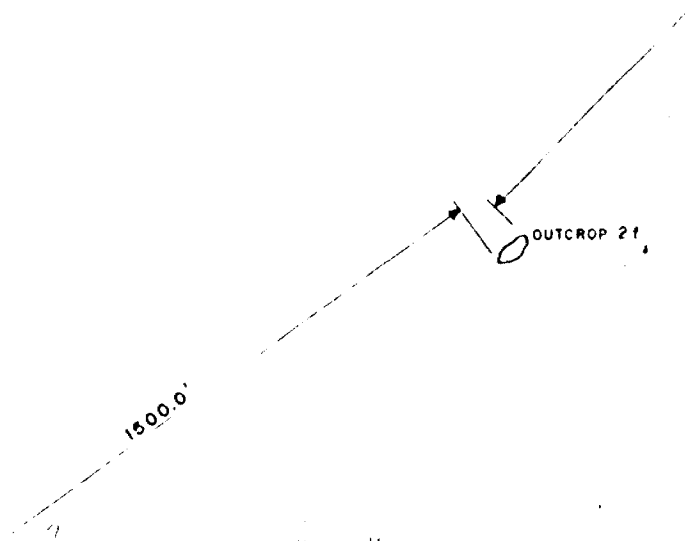


MAP No. 5 of 7

FALCONBRIDGE NICKEL MINES LTD.	
BOTTLE BAY LAKE AREA	
PETRUNKA - RANTI - BROENNLE PROPERTY.	
<b>LOCATION OF SHOWINGS # 1-5</b>	
AREA # 1	
SCALE 1" = 400'	DRAWN E. BUHL
DATE DEC. 9, 74.	N.T.S. 82 - F - 14

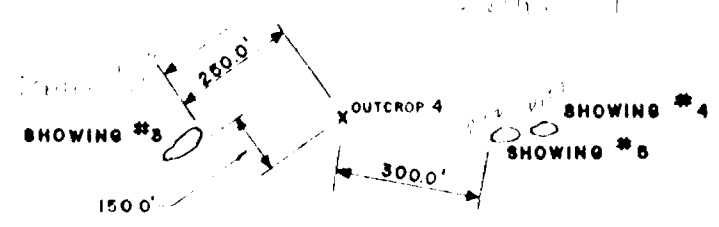


GRAVEL ROAD



OUTCROP 2f

1500.0'



SHOWING #3

OUTCROP 4

SHOWING #4

SHOWING #6

150.0'

250.0'

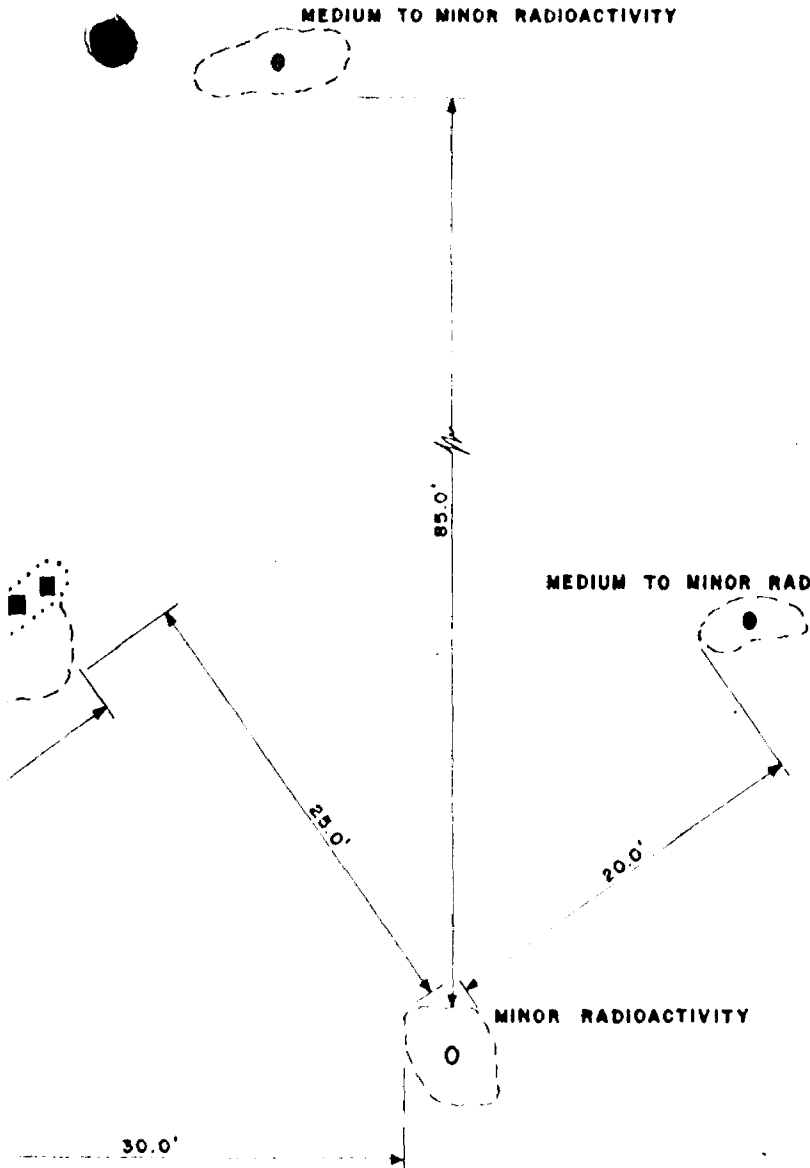
300.0'

MEDIUM TO MINOR RADIOACTIVITY







MEDIUM TO MINOR RADIOACTIVITY




MINOR RADIOACTIVITY



**LEGEND.**

-  HIGHLY RADIOACTIVE
-  MODERATE TO HIGHLY RADIOACTIVE
-  MEDIUM TO MINOR RADIOACTIVITY
-  MINOR RADIOACTIVITY

**SYMBOLS.**

-  PIT
-  OUTLINE OF RADIOACTIVITY
-  ROCK OUTCROP

MAP No. 6 of 7

FALCONBRIDGE NICKEL MINES LTD.	
BOTTLE BAY LAKE AREA. PETRUNKA-RANTI-BROENNLE PROPERTY.	
<b>SHOWING — # 5</b>	
AREA # 1	
SCALE 1" = 1'-0"	DRAWN E. BUHL
DATE DEC. 8.74.	NT.S. 52 - F - 14

SHOWING # 5.

SAMPLE No. 5726 - 0.075 % U<sub>3</sub> O<sub>8</sub>

BULK SAMPLE  
≈ 35 lbs.

50.0'

NO RADIOACTIVITY

5.0'

3.0'

8.0'

10.0'

20.0'

NO RADIOACTIVITY

18.0'

NO RADIOACTIVITY

25.0'

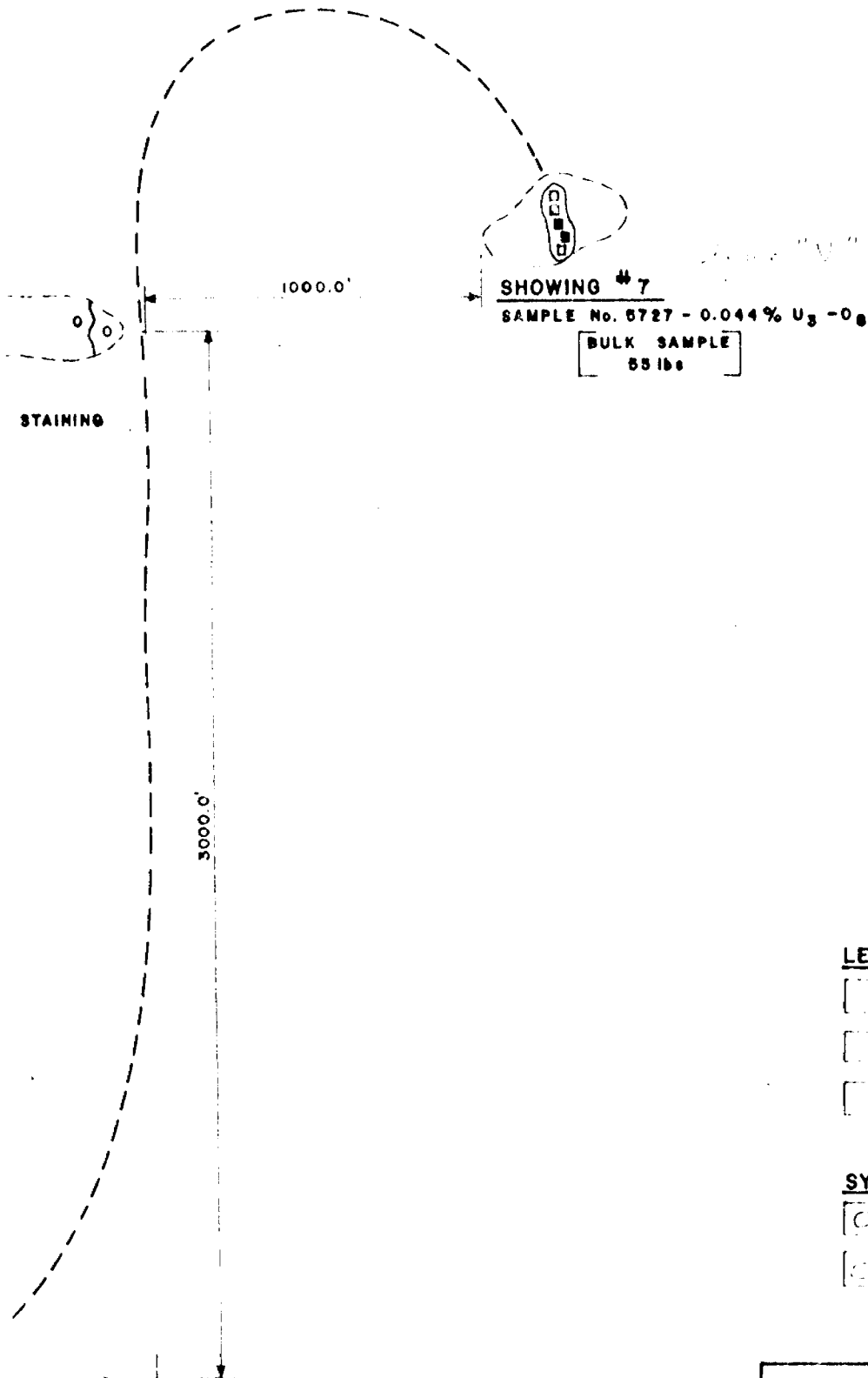
5.0'

SHOWING # 6  
WHITE PEGMATITE Y

GRAVEL ROAD

TRAIL

3500.0'



**SHOWING # 7**

SAMPLE No. 6727 - 0.044%  $U_3O_8$

BULK SAMPLE  
55 lbs

STAINING

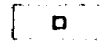
1000.0'

3000.0'

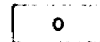
**LEGEND.**



HIGHLY RADIOACTIVE

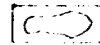


MODERATE TO HIGHLY RADIOACTIVE

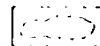


MINOR RADIOACTIVITY

**SYMBOLS.**



PIT



ROCK OUTCROP

MAP No. 7 of 7

FALCONBRIDGE NICKEL MINES LTD.

BOTTLE BAY LAKE AREA  
PETRUNKA - RANTI - BROENNLE PROPERTY.

**SHOWING # 6-7**

AREA # 2

SCALE 1" = 500'

DRAWN E. BUHL

DATE DEC. 9. 74.

N.T.S. 52 - F - 14



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PRELIMINARY REPORT  
Bottle Bay Property

February, 1975  
Thunder Bay, Ontario

R. D. Middaugh  
Field Geologist



## PURPOSE

The purpose of this report is to give a brief background of the property and to outline exploration proposals for a better evaluation of its possible economic potential.

## LOCATION

The property consists of seventy-three unpatented claims located in Temple Township which is approximately eighteen miles west of the town of Dryden, Ontario. The group is easily reached by a forest access road which runs south and east from Waldhof Road, a secondary road that crosses the Trans Canada Highway (highway #17) just east of Vermillion Bay, Ontario.

## TOPOGRAPHY

The bush is mature consisting of spruce and pine with minor sections of birch and poplar. The maturity of the bush makes walking easy except in areas of blowdown which are presently being cut off by private pulp contractors.

## BACKGROUND

Mr. D. Petrunka, a Thunder Bay prospector, first brought the property to my attention. He and Mr. W. Ranta then went ahead and contracted to have sixty-six more claims staked in the area. This decision was based partly on my recommendation.

The wide spread location of interesting radioactive occurrences, the extensive nature of the host rock and the lack of information on the structural features of the area which may relate and control these occurrences were the basis of my recommendations.

#### GEOLOGY

The main rock type of the area is a coarse grained granite. Moorehouse in his report of the Eagle Lake area calls this a pegmatitic granite. Pegmatitic is used here as a textural term and does not reflect the genesis of the rocks. The extensive nature of the granite tends to support his conclusion. Minor inclusions or rafts of sedimentary materials are found within the granite. These rafts are badly metamorphosed and distorted producing para and lit-par-lit gneisses.

Several pits have been opened up here or on the original seven claims. The locations of these pits were found by rather haphazardly wandering about the area with a McFar scintillometer (Model TV-1) searching for radioactivity. On finding an interesting area, it was opened up. Generally speaking, the radioactive counts increased when fresh rock samples were used as opposed to weathered surfaces. Some of the pits exhibited extensive Uranophane staining. The only other observation of note made during the brief examination of these pits was that zones of high radiation in some cases were associated with small but quite euhedral green apatite crystals.

### ASSAYS

Grab samples taken from these pits have assayed as high as 0.268%  $U_3O_8$  which based on grades quoted in J. W. Griffith Mineral Report on Uranium published in 1967, is well within the economic range.

### PROPOSALS

Since so little work has been done on this property and the little that has been accomplished gives such a positive indication, further investigation and subsequent evaluation is definitely justified.

In subsequent visits to the property, I was fortunate enough to accompany on different occasions geologists from Noranda, Imperial Oil, and Falconbridge. In conversations with them, I found they agreed with my ideas as far as future evaluation work was concerned.

The first thing that should be done is to have a control grid cut. The wing lines should be at a maximum of four-hundred foot spacing with stations along these lines at 100 foot intervals. Upon completion of the grid a radiometric survey should be carried out. Coupled with this survey, detailed mapping and prospecting should also be done. The masking effect of snow on radiometric surveys and its obvious detrimental effect on mapping dictate that this work must be done during the summer months.

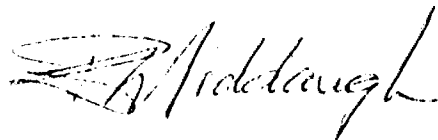
Depending on the results of this program, further surveys could be conducted. A water sampling and subsequent radon gas analysis could possibly be an aid in wet heavy overburden areas. Likewise, a magnetometer survey could help outline structural features not made apparent by mapping.

Having hopefully located the best radioactive targets by the aforementioned methods, they should be trenched, assayed and drilled to determine their grade and tonnage. After all justifiable work has been completed, evaluation of the economic potential of the property is rather straightforward and subsequent decisions as to the future of the area can be made.

#### CONCLUSIONS

I would like to emphasize if only by repetition that so little work has produced such interesting positive encouragement that further work is justified.

Submitted by:



R. D. Middaugh  
February, 1975

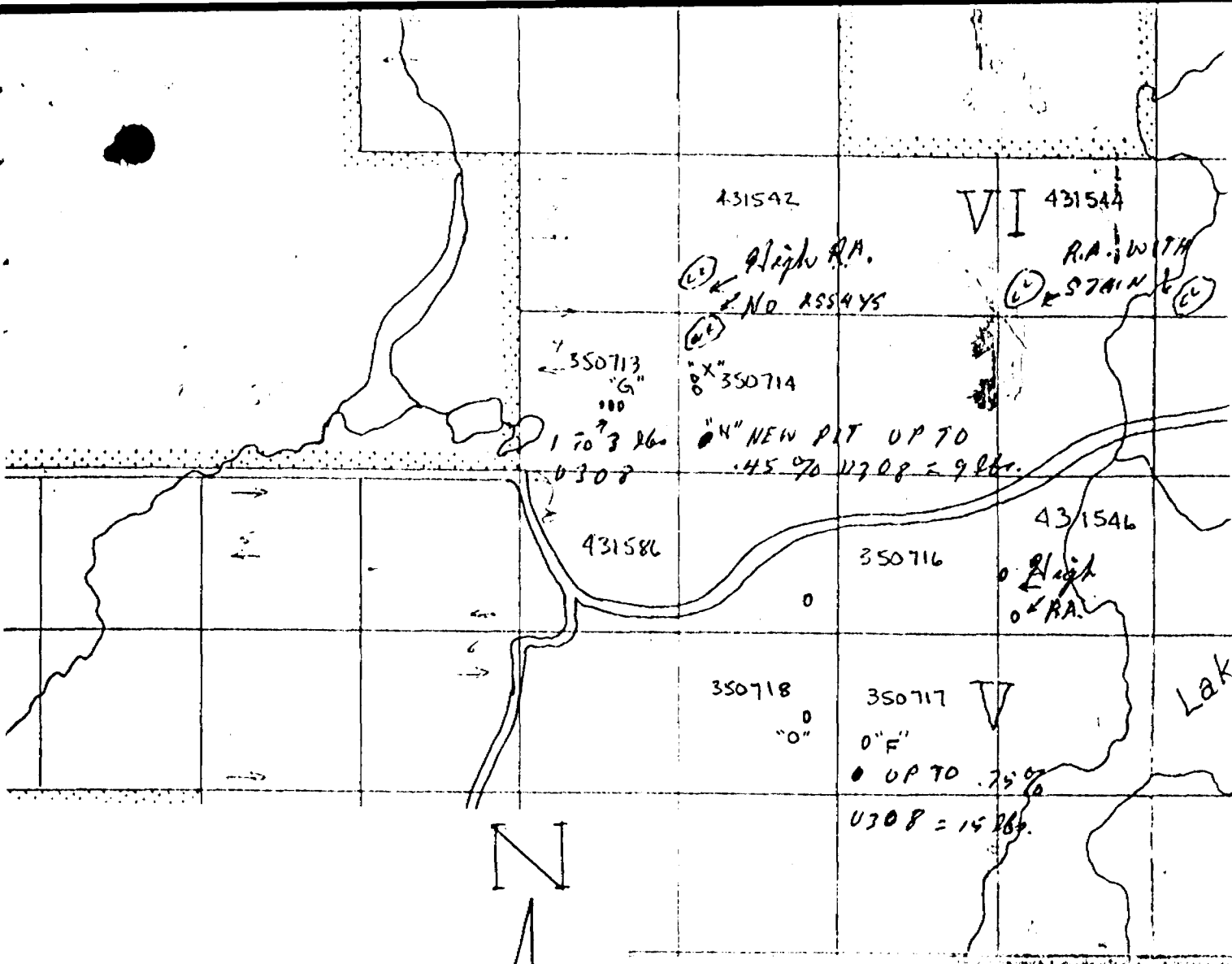
REFERENCES

Griffith, J. W.

1967: The uranium industry--its history, technology and prospects. Mineral Resources Division, Dept. Energy, Mines and Resources, Mineral Report 12.

Moorhouse, W. W.

1939: Geology of the Eagle Lake area. Ont. Dept. Mines, Ann. Rept., Vol. XLVIII, Pt. IV, 1939.



LEGEND

- ROAD
- PATENT LAND BOUNDARY
- RAILWAY
- CLAIM LINE
- TOWNSHIP BOUNDARY
- TEST PITS

Notes in black by Prospector  
*D.F. Peterson*

## BOTTLE BAY PROPERTY

SCALE	DATE	APP
1 IN. = 1320 FT.	FEB 1975	



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030

SUPPLEMENTAL REPORT

BOTTLE BAY LAKE CLAIMS

F.O.B. MINING & EXPLORATION LTD.

N.T.S. 52-F-14

NOVEMBER 19, 1975

RONALD C. GASHINSKI

## INTRODUCTION

In November of 1974, L. J. Nelson and crew examined a group of Seventy-two (72) claims in the Vermilion Bay area. The purpose of the field trip was to follow-up the reported occurrences of radioactive pegmatite-granite showings.

Due to poor field and weather conditions a detailed examination was not possible, which necessitated a return trip in June, 1975 by R. C. Gashinski and crew.

With areas of interest already outlined in 1974, the 1975 program was to elaborate and follow through with a more comprehensive study of the showings.

The reader is referred to L. J. Nelson's Report "The Bottle Bay Lake Property" December 11, 1974 for background information.

## LOCATION AND ACCESS

The property is twenty-two (22) miles west of Dryden, Ontario, and consists of 72 claims in the Bottle Bay Lake Area. Access is readily available by the Waldof Road, four miles east of Vermilion Bay. This road is followed four miles in a southwesterly direction and cuts through the centre of the claim group.

## GENERAL GEOLOGY OF CLAIMS AND SHOWINGS.

The claim group encompasses a large granite mass which is flanked on the east, west and south sides by sediments.

The area was mapped by the O. D. M. in 1939 by W. W. Moorhouse (Map No. 48 d - Eagle Lake Area).

As stated previously by L. J. Nelson (December 11, 1974) the showings occur in two areas. The radioactivity is basically restricted to a coarse grained salmon pink pegmatite and granite, and to normal biotite white granites, accompanied by yellow uranium oxide staining.

Huge areas, predominantly normal biotite white granite with no uranium staining or pegmatite veins gave no favourable radioactive responses except for minor potassium radioactive responses from the feldspars.

## 1975 WORK PROGRAM

The area was randomly surveyed and sampled on the basis of interesting radioactive areas. The McPhar TV-1 Scintillometer which



provided three thresholds was used. With rough calculations in the field an estimate of %  $U_3O_8$  was readily obtainable, aiding in immediate evaluation of sample locations.

#### CONCLUSIONS

Basically, the field work of 1975 provided more detailed data than the previous year. This data showed that the radioactive areas were patches of pegmatite in the granitic mass. The radioactive showings were narrow and of limited strike length.

The samples sent for analysis revealed the fact that Thorium was not present at all. Some samples are quite interesting but the extent of radioactivity was not encouraging.

#### RECOMMENDATIONS

Due to the physical nature of radioactive pegmatite deposits and the fact that roughly 1,500 properties containing a total of 10,000 small mineral occurrences or larger deposits found in the Shield, it is felt that the area should receive minor consideration in the future. The above 10,000 occurrences have a minimum amount, 0.05%  $U_3O_8$ . (Ref. A. H. Lang - Notes on Prospecting for Uranium in Canada, Geol. Sur. Can. Paper 49-4, 1949).

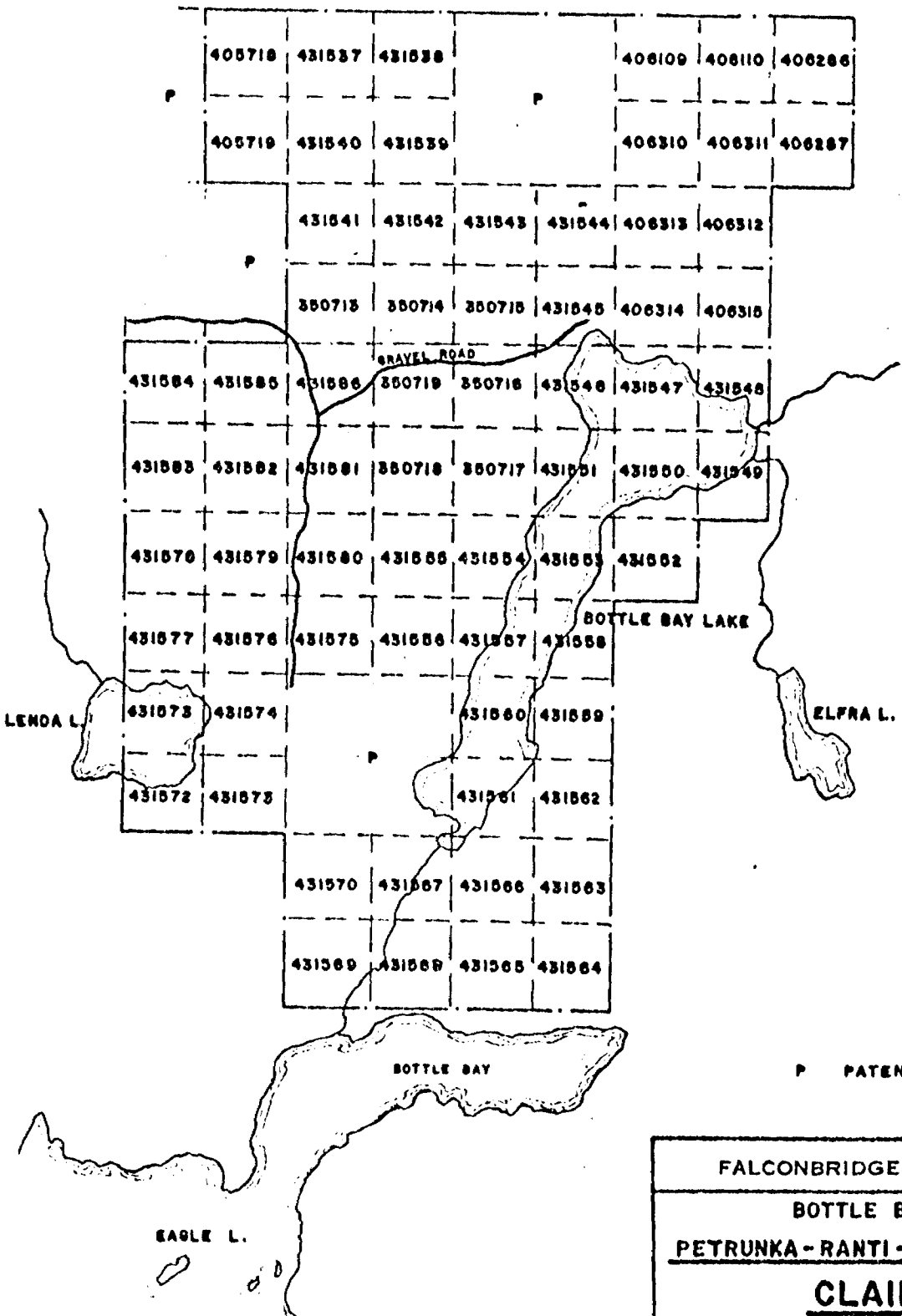
If the market and value of  $U_3O_8$  is greatly enhanced, a more detailed and closer spaced Scintillometer and sampling program should be undertaken. The potential for a very low grade, high tonnage deposit is quite remote, but never the less does exist.

NOVEMBER 19, 1975.



RONALD C. GASHINSKI

CANADIAN PACIFIC



P PATENTED LAND

MAP No. 2 of 3

FALCONBRIDGE NICKEL MINES LTD.  
 BOTTLE BAY LAKE AREA.  
 PETRUNKA-RANTI-BROENNLE PROPERTY.  
**CLAIM MAP**

SCALE 1" = 1/2 MILE	DRAWN E. BUHL
DATE AUG. 25. 78.	M.T.S. 88 - P - 14.



WM. BERRIE, M.A.

D. KERR-LAWSON, B.A., PH.D.

# CORRELATION

## LABORATORIES LTD.

M. E. WELLER, B.A.

H. E. WELLER

 R.R. 1 COBDEN, ONTARIO PHONE 646-7448 (AREA 613) JUL 24 REC'D  
 K O J I K O

CERTIFICATE OF ANALYSIS No. 11127 July 19, 1975.

We have tested radiometrically 15 of 35 samples of pulp  
 Received July 17 via Swastika and submitted by Falconbridge Nickel Mines Ltd.  
 Thunder Bay with the following results:

No.	Equilibrium Beta Equiv.	Counter Gamma Equiv.	Indicated % $U_3O_8$
3023	0.004	0.003	0.005 ✓
3024	0.003	0.003	0.003 ✓
3025	0.007	0.005	0.009 ✓
3026	0.015	0.010	0.020 ✓
3027	0.014	0.008	0.020 — NOT ON MAP
3028	0.021	0.017	0.026 ✓
3029	0.055	0.024	0.086 ✓
3030	0.055	0.017	0.093 ✓
3031	0.004	0.004	0.004 — NOT ON MAP
3032	0.002	0.002	0.002 ✓
3033	0.005	0.004	0.006 ✓
3034	0.002	0.004	0.000 ✓
3035	0.002	0.004	0.000 ✓
3036	0.003	0.003	0.003 ✓
3037	0.004	0.005	0.003 ✓

Re: 3034, 3025, 3037

The slight excess of gamma may be caused by a trace (L.T.O.01%)  
 of Thorium or by daughter elements of Uranium.

Correlation Labs. Ltd.

Per :

H. Weller

405719

431540

FLAT  
NO OUTCROP

431539

NO OUTCROP

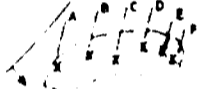
431541

431542

PATENTED LAND

U-37	-	3017	-0.005%
U-37A	-	3018	-0.009%
C		19	-0.017%
D		20	-0.012%
E		21	-0.101%
F		22	-0.074%

350713



3028 - 0.026%

350714

WINTER ROAD

SWAMP

431585

431586

350719

431582

431581

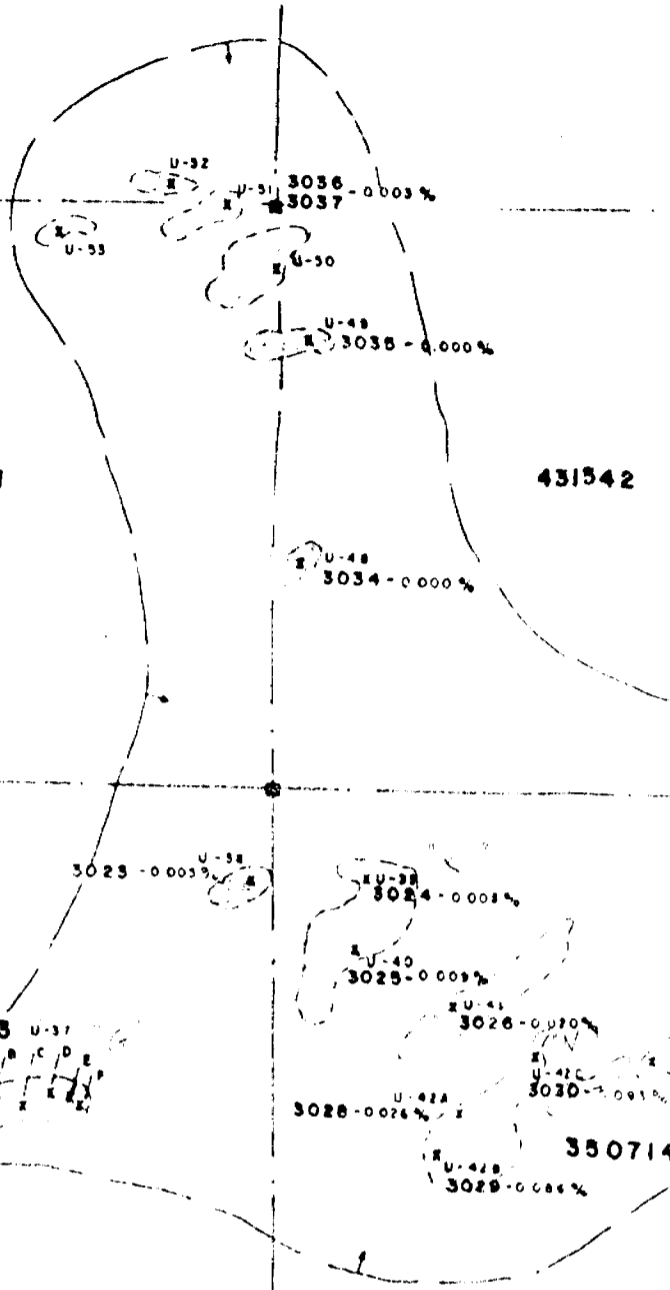
350718

SWAMP

431579

431580

431556



FLAT NO OUTCROP 431539

PATENTED LAND

U-31 3036-0.003%  
3037

U-30

U-49 3038-0.000%

U-48 3034-0.000%

431542

NO OUTCROP

431543

U-48 3033-0.000%

XU-39 3024-0.003%

XU-40 3025-0.003%

XU-41 3026-0.020%

XU-44 3032-0.002%

U-42C 3027-0.001%

U-42A 3028-0.026%

350714

XU-42B 3029-0.044%

350715

SWAMP

U-1 3003-0.000%

WINTER ROAD

350719

350718 3005-0.003% 3004-0.023% 431546

U-20 3007-0.003% XU-8 3006-0.080

*3 peg dikes.*

350718

350717

431551

U-19 3010-0.004%

003%

U-18

U-18

U-16

XU-13 3009-0.000%

U-13

U-14

U-12

431555

431554



52F14SW8160 2.2668 TEMPLE

040

PROJECTS UNIT.

GEOLOGICAL REPORT ON  
BOTTLE BAY LAKE URANIUM PROPERTY  
TEMPLE TOWNSHIP  
KENORA MINING DIVISION  
ONTARIO  
FOR  
F.O.B. MINING AND EXPLORATION LTD.

Mississauga, Ontario  
September 18, 1977

E. L. Hoffman  
Robert E. Schaaf & Associates Inc.  
Geological Consultants



KENORA MINING DIVISION  
ONTARIO  
FOR  
F.O.B. MINING AND EXPLORATION LTD.

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PLATES

Plate 1 following 2

TABLES

Table 1 Proposed Diamond Drilling 7

MAPS

Scale

Map 1 Geological Map (2 maps) 1"= 200'

Map 2 Detail 1 ✓ 1"= 10'

Map 3 Detail 2 ✓ 1"= 20'

4

*Compilation (reversed copy)*  
APPENDIX

A Assay Results, X-Ray Assay Laboratories

B Thin Section descriptions

GEOLOGICAL REPORT ON  
BOTTLE BAY LAKE URANIUM PROPERTY  
TEMPLE TOWNSHIP  
KENORA MINING DIVISION  
ONTARIO  
FOR  
F.O.B. MINING AND EXPLORATION LTD.

INTRODUCTION

A detailed geological investigation has been carried out on the "core claims" of the F.O.B. Mining and Exploration Ltd., Temple Township Uranium Property by E. L. Hoffman of Robert E. Schaaf & Associates Inc., Geological Consultants. This geological field study ran from August 17 to September 5, 1977 inclusive.

The objectives of the study were:

- (a) To map the significant geology as it pertained to uranium mineralization within the core claims.
- (b) To review the total count scintillometer survey of M. Kremko (June 1976) and the radon gas survey of R. Morse (Nov. 22, 1976) and to evaluate and explain any buried anomalies and exposed mineralization.
- (c) To Locate areas for further bulk sampling techniques.
- (d) To prospect by visual and radiometric methods and geologically map in reconnaissance fashion all F.O.B. claims peripheral to the "core claims".

Mapping of the "core claims" was at a scale of 1"= 200' with greater detail at two localities to document the continuity of the radioactivity. A McPhar Geophysics TV-1 scintillometer aided in outlining the extent of the uranium mineralization. Twenty-five samples have been collected for petrographic study to aid in evaluating the geology of the property. (These descriptions will be available at a later date.) New radioactive "hot spots" have been sampled for  $U_3O_8$  and  $ThO_2$  assay by X-Ray Assay Laboratories, Don Mills, Ontario (Appendix I).



The peripheral F.O.B. claims to be core group have been mapped geologically and radiometrically on a semi-detailed reconnaissance nature. Air photographs were utilized to locate outcrop areas for traversing.

#### LOCATION AND ACCESS

The F.O.B. Mining and Exploration Ltd. (unpatented 69) claims lie within concessions IV to VI, lots 4-8 within the north central portion of Temple Township, Kenora Mining Division (plate 2), Ontario.

These include claims:

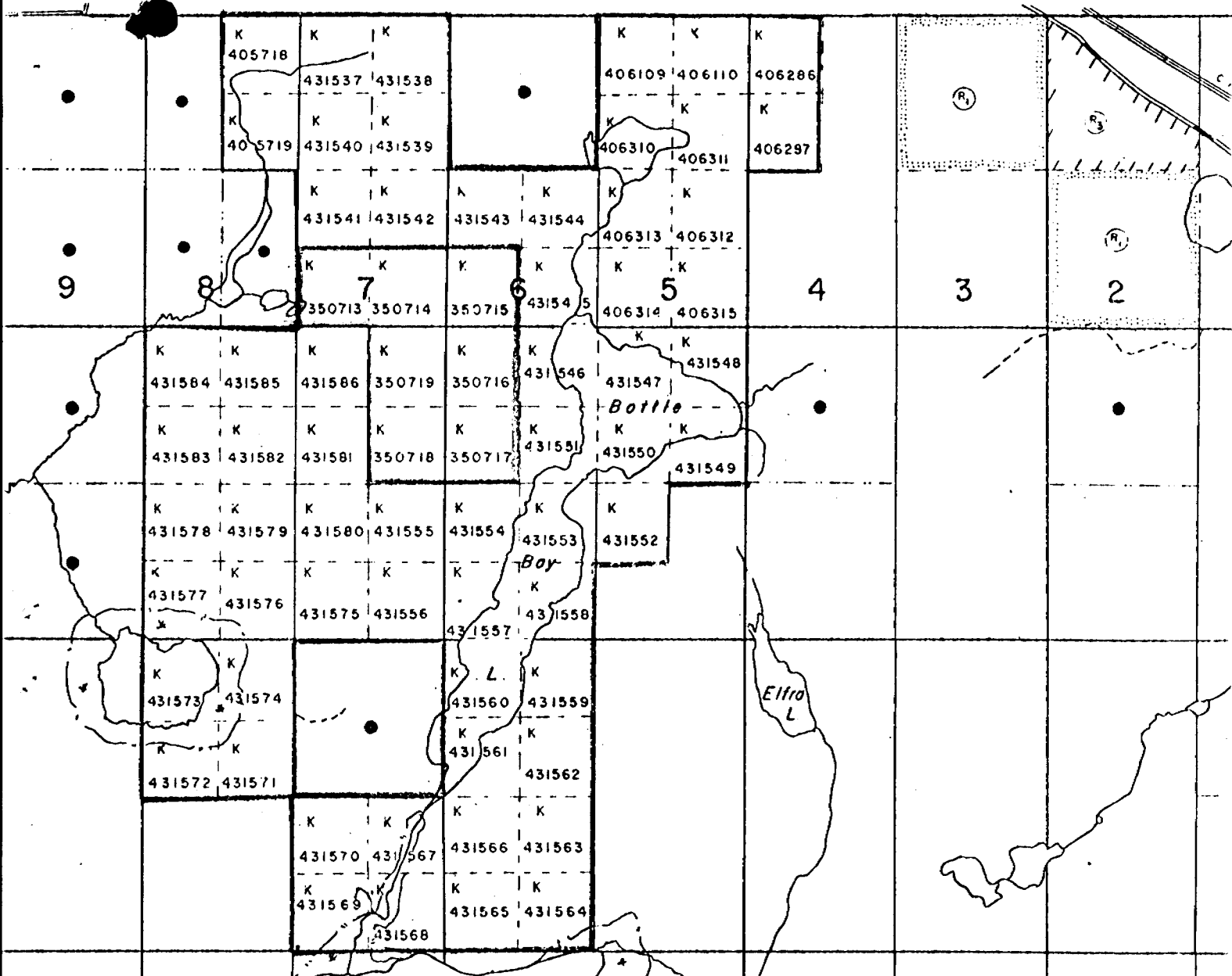
K405718-K405719 inclusive  
 K431537-K431586 inclusive  
 K350713-K350719 inclusive ("core claims")  
 K406109-K406110 inclusive  
 K406310-K406315 inclusive  
 K406286-K406287 inclusive

This claim block is accessible by road seven miles from Vermilion Bay, Ontario by following Highway 17 east to Waldhof road (3 miles) and then by gravel road in a southeast direction for four miles. The property is crossed by two old logging roads which make all but the southeast portion of the claim block accessible by truck. This portion of the claim block is accessible by boat from Bottle Bay (Eagle Lake) or Bottle Bay Lake.

#### PREVIOUS INFORMATION ON THE PROPERTY TO DATE

The area was first mapped by Moorhouse (1939), who reported a granite to granodioritic stock, intruding metasediments west of Bottle Bay Lake. The first written report of uranium mineralization was by L. J. Nelson (December 11, 1974) of Falconbridge Nickel Mines Ltd. in his property examination of the F.O.B. Mining and Exploration Ltd. property. The original showings are reported to have been discovered by Mr. D. Petrunka and Mr. W. Ranta, prospectors from Thunderbay, Ontario. Further preliminary reports by R. D. Middaugh (February 1975) and R. C. Gashinski (November 19, 1975) were also optimistic on the uranium potential of this property. W. R. Scott (April 1, 1976) of the Ontario Division of Mines has described the property as: "Radio-

PLATE 1



F.O.B. MINING AND EXPLORATION LTD.  
 BOTTLE BAY LAKE URANIUM PROPERTY  
 TEMPLE TOWNSHIP  
 ONTARIO

Scale: 1" = 1/2 mile

- F.O.B. Holdings
- Core Claims

Robert E. Schaaf & Associates Inc.  
 July 19, 1977

active granitic intrusions cuts metasediments. Radioactivity is associated with apatite. Yellow secondary staining prevalent but erratic. O.D.M. assays were 0.005% and 0.083%  $U_3O_8$ ."

Kremko (June 1976) has mapped the property as being of Algoman granite with pink pegmatite intrusions of K feldspar, biotite, quartz and locally uraniferous green apatite and uranophane with some intermixed Timiskaming sediments.

A radiometric survey was run on a portion of the property by M. Kremko (November 1976) and a radon survey was carried out by R. H. Morse and Associates Ltd. (November 22, 1976). Results of these surveys outlined favourable anomalous areas with respect to uranium mineralization. In 1976 DDH 76-1 was drilled on claim K350714 (N Zone) which encountered anomalous  $U_3O_8$  values in the upper 75 - 100 feet of the hole.

Breaks et al (1976), have described the Bottle Bay area as being metasediments which have been extensively intruded by felsic plutonic bodies and intrusive homogenous diatexite ranging in composition from trondhjemite to quartz monzonite.

#### GENERAL GEOLOGY

The Temple Bay Uranium Property lies within the Wabigoon subprovince (about six miles south of the English River subprovince) of the Precambrian Shield. The area is underlain by metasediments (paragneisses of greywacke composition) which have been intruded by felsic plutonics of granitic to quartz monzonite composition. Multiple pegmatitic phases are found to be associated with the felsic plutonics and occur mainly as dike swarms marginal to the main intrusive body. It appears likely that only one facies of the pegmatitic intrusion is anomalous with respect to uranium mineralization. Later post-ore faulting may be responsible for structurally enhancing the thicknesses of the uranium bearing pegmatites.

The metasediments in this area are composed mainly of quartz, biotite and feldspar with minor amounts of accessory minerals such as garnets, etc. These metasediments have a well developed gneissosity as opposed to the unfoliated to weakly foliated felsic intrusives. Locally these metasediments or paragneisses have been injected by pegmatitic phases of the main intrusive and in these areas the gneissosity parallels the intrusive and generally shows a more intense gneissic texture.

The main mass of the felsic intrusive lies within the west-central portion of the claim block and is generally granitic to quartz monzonitic in composition. There may be paragneiss xenoliths or pegmatitic patches but these are very local in nature. The main body of the intrusive is unfoliated and massive with the exception of jointing which is well developed locally. It is this jointing which combined with other geological and topographic observations have aided in interpreting the faulting patterns of the area.

Three main facies of pegmatitic intrusions have been identified. The most extensive series of pegmatite dike swarms trends from 010° to 030° and forms topographically identifiable regions (more resistant to erosion) with the outcrops trending the same way as the pegmatites. These pegmatites appear to be composed of quartz, K feldspar (pink), plagioclase with only minor amounts of biotite and no visible apatite accumulations. Generally total count radioactivity (K+U+Th) does not exceed 6,000 cpm. Each pegmatite dike may be up to 200 feet thick and may contain local granitic and metasediment xenoliths.

The economically interesting facies of pegmatite dike swarms trends from 055° to 075° which, within the "core claims", parallels the direction of the picket lines. This series of pegmatites differs from the previous set in that total count radioactivity generally exceeds 6,000 cpm with local "hot spots" up to greater than 100,000 cpm with net U count rates up to 1500 cpm. Mineralogically these pegmatites

appear to be anomalous in that they contain up to 25% apatite crystals, and may contain up to 80% biotite locally. It appears that the net U count rate is proportional to the amount of biotite and apatite present in the rocks. Uranophane staining is common with this group of pegmatites. The total count radioactivity is not continuous along any individual dike but occurs as "hot spots" generally measuring around 25 x 25 feet. Five main zones of radioactive pegmatite dike swarms have been located as well as a few isolated "hot" pegmatite dikes. Most of these zones appear to occur peripheral to the main pluton occurring mainly on the northern and eastern side of the pluton. These pegmatite dike swarms are coincident with the main radon anomalies of R. Morse (November 22, 1976) and are cut by NNW trending faults. West of the pluton there is no outcrop (swamp) so it is conceivable that the radiometric pegmatites may occur in this area as well (bordering the western extremity of the intrusive). West of the lower boundary of the claim block one radioactive pegmatite dike was located which assayed 0.010%  $U_3O_8$ , tr  $ThO_2$ . The western portion of the claim block is underlain by a magnetic anomaly (Map 11639-ODM-GSC, aeromagnetic series) which may indicate the possibility of a carbonatite complex occurring. (Abundance of apatite in the pegmatites may suggest this hypothesis.) Outcrop in the area is nonexistent however.

The third series of pegmatites is relatively minor, resembling the first series geologically and radiometrically but trends  $150^{\circ}$  to  $170^{\circ}$ . Cross cutting relations are not obvious among the three phases of pegmatites however the radioactive pegmatites appear to have occurred second or third.

Cross cutting faults tend to form topographic low areas, and combined with the geological observations of jointing, and migmatite zones, suggest at least three major NNW trending faults cutting the claim block with the possibility of several other more subsidiary NNW trending faults occurring. In addition, two ENE trending faults are suggested for the same reasons. These faults have had a profound effect on the uranium mineralization in displacing the radioactive pegmatites and in the folding of radioactive pegmatite dikes possibly enhancing potential mining units.

## RECOMMENDATIONS

The B and M Zones and their newly established extensions appear to be cut on the east and west by NNW trending faults. The outlined radioactive pegmatite dike swarms have been traced for a strike length of at least 800 feet with a width of about 600 feet (at least seven pegmatite dikes within this zone). This zone has had previous assays as high as 0.06%  $U_3O_8$  (RES&A compilation map) and should be tested by at least three short 100-foot drill holes as indicated on the DDH summary. The radon anomaly appears to be superimposed on this series of dike swarms.

The O and F Zones and their newly established extensions are cut on the east by a NNW trending fault and may be the faulted westerly extension of the Band M Zones. The possibility exists as well for a strike length of up to 800 feet on some of the dikes, which may number up to ten. The bulk samples from pit 3 in this zone have returned values as high as 0.075%  $U_3O_8$ . A pegmatite dike about 200 feet NNE of this pit returned a 0.070%  $U_3O_8$  in the present mapping procedure. A radon anomaly exists over the northern part of this zone. The small radon anomaly in the fault zone at BL-10N may be the easterly extension of one of the dikes and as such would warrant drilling as described in the table of proposed drill holes. At least seven short 100-foot holes are indicated on the exposed dikes and radon anomaly.

A series of five short 100-foot holes are recommended in the G, X and N Zones as listed in the proposed table of drilling. The NX zones have a similar geology to those already described and similarly have a radon anomaly superimposed on the earea. A large E-W trending clay swamp between the N and B Zones shows some indication of being a fault zone. This zone may parallel the direction of the pegmatite dikes and as such would definitely warrant testing as shown in Table 1 of Proposed Diamond Drill Holes.

Testing of a possible western zone and some of the isolated hot spots should await results of the first stage of diamond drilling.

All proposed diamond drilling should be of at least NX core size with the core to be split and all pegmatite sections sent for assay. Extension of the grid into the western portion of the claim block should await the results of the proposed diamond drilling program.

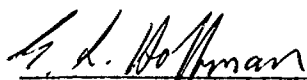
TABLE 1

PROPOSED DIAMOND DRILLING

<u>DDH #</u>	<u>Co-ordinates</u>	<u>Direction</u>	<u>Proposed Depth</u>	<u>Zone</u>	<u>Overburden</u>
77-1	20+40N, 4+00E	-45 <sup>0</sup> Grid S	100'	B	20'
77-2	20+40N, 8+10E	-45 <sup>0</sup> Grid S	100'	M	20'
77-3	20+40N, 0+60E	-45 <sup>0</sup> Grid S	100'	W of Zone B	20'
77-4	12+60N, 7+00W	-45 <sup>0</sup> Grid S	100'	N of Zone F	20'
77-5	10+50N, 8+00W	-45 <sup>0</sup> Grid S	100'	F	20'
77-6	10+50N, 6+00W	-45 <sup>0</sup> Grid S	100'	F	20'
77-7	10+50N, 4+40W	-45 <sup>0</sup> Grid S	100'	F	20'
77-8	11+10N, 1+00W	-45 <sup>0</sup> True S	150'	radon anomaly E of Zone F	20'
77-9	4+60N, 2+75W	-45 <sup>0</sup> Grid S	100'	S of Zone F	20'
77-10	11+40N, 11+20W	-45 <sup>0</sup> Grid S	100'	NW of Zone F	20'
77-11	44+20N, 13+90W	-45 <sup>0</sup> Grid S	100'	G	20'
77-12	40+10N, 8+45W	-45 <sup>0</sup> Grid W	100'	N	20'
77-13	39+80N, 6+80W	-45 <sup>0</sup> Grid WSW	100'	N	20'
77-14	39+75N, 7+80W	-45 <sup>0</sup> Grid W	100'	N	20'
77-15	42+40N, 11+00W	-45 <sup>0</sup> Grid SW	100'	N	20'
77-16	38+10N, 3+25W	-45 <sup>0</sup> True S	250'	S of N	20'
77-17	36+10N, 3+25W	-45 <sup>0</sup> True S	250'	S of N	20'

Respectfully submitted,

ROBERT E. SCHAAF & ASSOCIATES INC.  
Geological Consultants

  
E. L. Hoffman, Geologist

Mississauga, Ontario  
September 18, 1977



# X-RAY ASSAY LABORATORIES

LIMITED

5 LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

## Certificate of Analysis

NO. 2063 PAGE 1 of 1

TO F.O.B. MINING & EXPLORATION  
904 Meadow Wood Rd.,  
Mississauga, Ont. L5J 2S6

Attn: Robt. Schaaf

RECEIVED

Sept. 9/77

INVOICE NO.

2063

SAMPLE(S) OF 5 rock

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample      %U<sub>3</sub>O<sub>8</sub>      %ThO<sub>2</sub>

7208	0.010	0.015
13	0.070	trace
20	0.010	0.050
22	trace	0.030
7226	0.010	trace

X-RAY ASSAY LABORATORIES LIMITED

DATE

Sept. 12/77.

CERTIFIED BY

*S. Hume*

## THIN SECTION DESCRIPTIONS

- 7201: Quartz 25%, Kspar 20%, perthite 50%, biotite 5%. Medium grained, equigranular, some quartz poikilitically enclosed in perthite. Minor amount of alteration of Kspar and perthite to clay minerals.  
Name: Quartz monzonite
- 7202: Quartz 10%, Kspar 15%, biotite 5%, perthite 70%. Coarse grained, quartz and biotite appear to be fracture filling.  
Name: Pegmatite
- 7203: Quartz 25%, Kspar 15%, perthite 50%, biotite 10%, tr apatite and opaques. Coarse grained, perthite has very altered patches. Biotite occurs along fractures.  
Name: Pegmatite
- 7204: Quartz 8%, Kspar 10%, perthite 10%, biotite 10%, apatite 1%, Opaques 1%. Coarse grained, apatite associated with biotite.  
Name: pegmatite
- 7205: Quartz 50%, plag 5%, biotite 20%, Kspar 10%, perthite 15%. Fine grained. Biotite needles form lineation.  
Name: Quartz-biotite-feldspar gneiss
- 7207: Quartz 20%, plag 40%, Kspar 15%, biotite 20%, amphibole 5%. Fine grained. Biotite needles from lineation.  
Name: Feldspar=quartz-biotite gneiss
- 7208: Plagioclase 10% (fresh), Kspar 15%, perthite 50%, biotite 15%, apatite 3%, quartz 5%, rutile? 2% (high relief brownish red). Coarse grained. Apatite associated with biotite. Perthite very altered.  
Name: Pegmatite
- 7209: Kspar 10%, perthite 60%, plag 10%, quartz 20%. Coarse grained. Up to half the quartz is poikilitically enclosed in the perthite.  
Name: Pegmatite
- 7210: Quartz 10%, plag 10%, biotite 2%, Kspar 20%, perthite 58%. Coarse grained.  
Name: Pegmatite
- 7211: Quartz 20%, biotite 2%, Kspar 10%, perthite 68%. Coarse grained, perthite is highly altered.  
Name: Pegmatite

- 7212: Quartz 20%, biotite 2%, Kspar 10%, perthite 68%, Coarse grained, perthite is highly altered.  
Name: Pegmatite
- 7213: Quartz 5%, biotite 20%, Kspar 50%, plag 5%, apatite 5%, opaques 2%, perthite 13%. Coarse grained. Most highly altered section also most Kspar. The apatite and opaques are associated with the biotite.  
Name: Pegmatite
- 7214: Quartz 10%, plag 10%, biotite 5%, rutile 2%, opaques 1%, Kspar 20%, perthite 52%. Medium grained.  
Name: Monzonite
- 7215: Quartz 5%, Kspar 20%, biotite 2%, perthite 73%. Coarse grained, fresh.  
Name: Pegmatite
- 7216: Quartz 10%, plag 5%, biotite 2%, Kspar 20%, perthite 63%. Coarse grained. Very minor alteration.  
Name: Pegmatite
- 7217: Quartz 20%, Kspar 15%, perthite 58%, biotite 5%, apatite 2%. Coarse grained. Highly altered perthite.  
Name: Pegmatite
- 7218: Quartz 10%, Kspar 25%, perthite 60%, biotite 5%. Coarse grained. Core of Kspar altered, secondary overgrowth of Kspar.  
Name: Pegmatite
- 7219: Quartz 20%, biotite 2%, perthite 73%. Coarse grained. Perthite highly altered.  
Name: Pegmatite
- 7220: Quartz 5%, biotite 2%, perthite 90%, apatite 3%. Coarse grained, perthite is fractured and alteration is heaviest along fractures. Apatite occurs not only in biotite but also in perthite.  
Name: Pegmatite
- 7221: Quartz 35%, plag 40%, Kspar 5%, biotite 20%. Fine grained, foliated.  
Name: Feldspar-quartz-biotite gneiss
- 7222: Quartz 20%, biotite 5%, apatite trace, Kspar 15%, perthite 60%. Coarse grained, perthite and Kspar are altered.  
Name: Pegmatite

Respectfully submitted,

ROBERT E. SCHAAF & ASSOCIATES INC.  
Geological Consultants



E. L. Hoffman, Geologist

Mississauga, Ontario  
September 18, 1977



52F14SW8160 2.2668 TEMPLE

050

PROJECTS UNIT

RECONCILIATION OF ASSAYS  
DIAMOND DRILL HOLE F.O.B. 76-1  
BOTTLE BAY LAKE URANIUM PROPERTY  
TEMPLE TOWNSHIP  
KENORA MINING DIVISION  
ONTARIO

FOR

F.O.B. MINING AND EXPLORATION LTD.

Mississauga, Ontario  
April 22, 1977

Robert E. Schaaf & Associates Inc.  
Geological Consultants

RECONCILIATI  
DIAMOND DRILL  
BOTTLE BAY LAKE



050C

TEMPLE TUNING  
KENORA MINING DIVISION  
ONTARIO

FOR

F.O.B. MINING AND EXPLORATION LTD.

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PLATES

PLATE 1	Following	1
PLATE 2	Following	2

MAPS

	<u>Scale</u>
MAP 1 Section D.D.H. 76-1 Reconciliation of Assays April 1977	1" = 200'

RECONCILIATION OF ASSAYS  
DIAMOND DRILL HOLE F.O.B. 76-1  
BOTTLE BAY LAKE URANIUM PROPERTY  
TEMPLE TOWNSHIP  
KENORA MINING DIVISION  
ONTARIO

FOR

F.O.B. MINING AND EXPLORATION LTD.

APPENDIX

- A Memorandum on Inspection, March 2, 1977
- B Diamond Drill Hole F.O.B. 76-1 log by M. K. Kremko, April 25, 1976.
- C Bell-White Laboratories Ltd. Certificate of Analysis No. 7706, June 9, 1976.
- D Technical Service Laboratories Report No. T-02269, July 15, 1976.
- E Report on check assays by Bell-White Laboratories Ltd., A. E. Grignon, March 16, 1977.
- F X-Ray Laboratories Limited Certificate of Analysis No. 1172, March 28, 1977.  
Letters of instruction to X-Ray Laboratories Limited by Robert E. Schaaf, March 18 and March 22, 1977.
- G Ontario Ministry of Natural Resources, Mineral Research Branch, Laboratory Report C18549, April 15, 1977  
Letters of instruction to Ontario Ministry of Natural Resources, Mineral Research Branch, by Robert E. Schaaf, March 18, 1977 and March 22, 1977.
- H Ontario Ministry of Natural Resources, Mineral Research Branch Laboratory Report C18548, April 15, 1977.  
Letters of instruction to Ontario Ministry of Natural Resources, Mineral Research Branch, by Robert E. Schaaf March 22, 1977.

RECONCILIATION OF ASSAYS  
DIAMOND DRILL HOLE F.O.B. 76-1  
BOTTLE BAY LAKE URANIUM PROPERTY  
TEMPLE TOWNSHIP  
KENORA MINING DIVISION  
ONTARIO

FOR

F.O.B. MINING AND EXPLORATION LTD.

INTRODUCTION

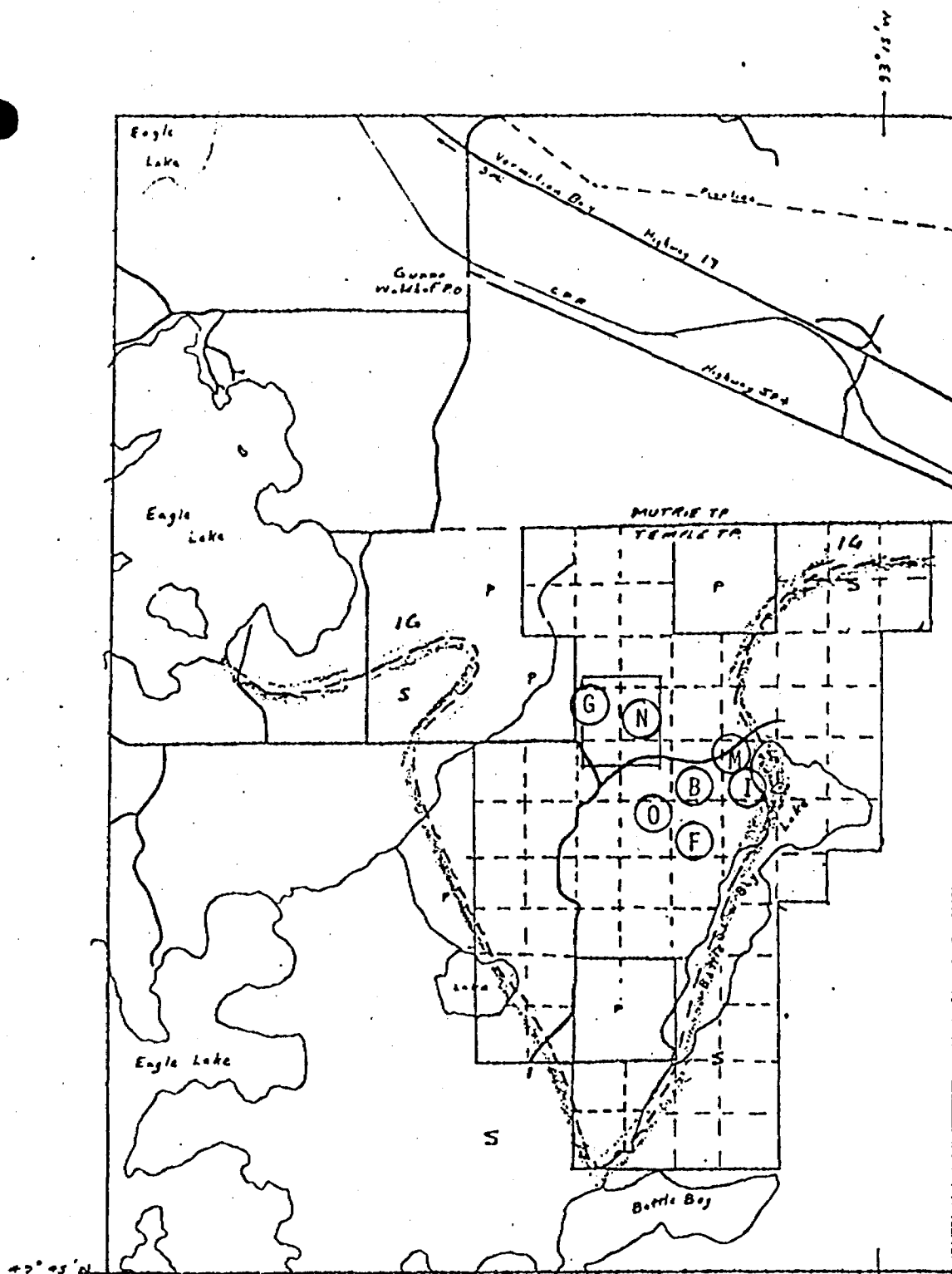
F.O.B. Mining and Exploration Limited has established numerous surface occurrences of uranium mineralization on its Bottle Bay Property (Plate 1). The showings have been elaborated by surface prospecting methods including stripping, rock trenching, radiometric surveys and a radon gas survey. All of the work on the property to date has been documented by M. Kremko and Robert H. Morse, per bibliography.

The property is largely underlain by granitic rocks having an evident history of multiple intrusion and complex igneous differentiation. Uranium mineralization has a common, although not exclusive association with coarse phases of the granitic complex, generally referred to as pegmatites, and particularly those phases having a deep red color and associated apatite. Uranophane is the most common recognizable uraniferous mineral.

In 1976, F.O.B. drilled the N Zone occurrence (Plates 1 and 2) with an inclined hole to 501 feet. As a general statement, the core returned initial assay averages including:

<u>% U308</u>	<u>Feet</u>
0.014	43.4
0.013	43.0
0.010	38.8
0.010	106.0
with spotty highs such as:	
0.110	10.0
0.043	5.0









KEY MAP: 1:50,000  
 F.O.B. MINING & EXPLORATION LIMITED  
 BOTTLE BAY URANIUM PROPERTY  
 TEMPLE TOWNSHIP, ONTARIO

ALGOMAN GRANITE (pink-white biotite, hornblende granite with pink pegmatitic intrusions of K feldspar, biotite, quartz & locally uraniferous green apatite and uranophane)

TIMISKAMING SEDIMENT (biotite, hornblende arkose siliceous as inclusions & masses)

-  F.O.B. Holdings
-  Plate 2
-  Main surface uranium occurrences
-  D.D.H. F.O.B.-1

Robert E. Schaaf & Associates  
 April 22, 1977

0.016                      6.0

0.015                      15.2

Overall the assays would indicate a general background in the order of 0.0125% U<sub>3</sub>O<sub>8</sub> or 0.25 lb/ton with spotty high grade concentration over a length of 500 feet, a highly significant indication of economic potential (Appendix B, C).

The original assaying was done by Bell-White Analytical Laboratories Ltd. with the results reported on its Certificate of Analysis No. 7706 dated June 9, 1976 (Appendix C). F.O.B. prompted by its discovery immediately initiated more field work at some considerable expense and aggressively advertised the find in the search for major financial participation for additional exploration. In July, 1976 Geophysical Engineering Ltd. examined the property and sent nine of the core pulps to another assayer for check analyses by two different methods. The results indicated major discrepancies with the Bell-White assays (Appendix D). Bell-White was advised of the discrepancies by F.O.B. and immediately initiated a check assay program over the next several months, finally concluding the original assays were inaccurate and that the core contained practically no uranium (Appendix E).

These findings had serious impact on the credibility of F.O.B. and despite its other merits and potential the entire property became tainted.

Robert E. Schaaf and Associates was commissioned in April, 1977 to review and reconcile the entire assaying history to set the record right and restore a realistic perspective for continuing uranium exploration merit and potential. The core was examined visually and radiometrically in considerable detail with the conclusion that apart from the upper 75 feet of the hole and scattered occurrences along fractures below 75 feet, the core contained no significant



amount of uranium (Appendix A). These conclusions were subsequently supported by a final program of check assays by two separate laboratories using two different analytical methods (Appendix F and G) and by petrographic examination of selected core specimens (Appendix H).

## REVIEW OF ANALYTICAL METHODS

All of the analytical results are compiled on Map 1 and referenced to the originating laboratory for purposes of quick comparison.

Appendix B and C. The original Bell-White results are tabulated on the drill log for DDH 76-1 and Certificate of Analysis No. 7706. Bell-White employed the standard thiocyanate colorimetric method which, though a reliable method if employed properly, has long been in disuse because it is inherently slow and labor-intensive and can be affected by troublesome interfering elements.

Appendix D. The Geophysical Engineering Limited check assays were done by Technical Service Laboratories by the X-ray fluorescence and wet chemical, fluorimetric methods, two of the most accurate and commonly employed methods in use today.

Appendix E. Upon realizing the assays reported on certificate No. 7706 were inaccurate, Bell-White advised F.O.B. by telephone but failed to issue a revised certificate of analysis. Its original analytical method and subsequent check procedures have been investigated and documented and I conclude that all cases of exaggerated values result from interfering elements in the F.O.B. samples. The technology has not been pursued, but the highapatite content could have contributed to the problem.

Appendix F. Check assays directed by Robert E. Schaaf and Associates involved splitting the pulps, compositing of samples and employment of two separate laboratories and analytical methods. All samples were weighted according to core length represented in making the composites. X-Ray Laboratories employed the X-ray fluorescence method. Checks were also made for thorium content. Both the uranium

and thorium content are negligible apart from some indication of uranium in the upper section of the hole.

Appendix G. Half of the original pulps were composited and analysed by the Ontario Ministry of Natural Resources Mineral Research Branch employing the wet chemical fluorimetric method. The results are in good accord with the X-Ray Labs results with the only uranium content of note occurring in the upper section of the hole.

Appendix H. Thirteen specimens of split core were sent to the Ontario Ministry of Natural Resources Mineral Research Branch for the purpose of detecting what radioactive minerals were present, if any. Its findings were negative in keeping with the reliable assay results.

CONCLUSIONS

The initial assay reports on drill hole F.O.B. 76-1 were obviously erroneous and exaggerated. Apart from this, I feel the hole was poorly conceived, designed and executed in the first instance. Five 100-foot holes or even ten 50-foot holes would have had much more exploration value.

But there is absolutely no reason to condemn or downgrade the uranium potential of the entire property on the basis of one drill hole. The hole does contain some oxide values in the upper 75 to 100 feet which are of interest and the property at large has seven good known surface occurrences which warrant further exploration. In addition, radon gas anomalies have been detected in areas of no outcrop which deserve investigation. The property is large and only about fifty percent has received any form of systematic exploration.

I conclude that aggressive surface exploration is warranted with a view to developing targets for well designed drilling.

RECOMMENDATIONS

A considerable amount of surface work in the form of stripping, trenching and sampling has been done but the data have not been documented in an orderly, systematic manner or compiled on a suitable base for evaluation or planning purposes.

I recommend that a base map with all control features be constructed at a scale of 1 inch to 200 feet. This base map should incorporate all pit and trench locations and other sampled sites together with the results of all surface sample analyses. Areas of outcrop and geological data, in keeping in detail with the scale of the map should be included. Other data such as radiometric survey results, radon gas survey results, etc. should be compiled as transparent overlay maps.

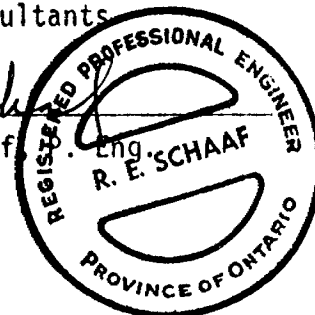
I believe this would provide considerable clarity and evidence of the important surface results to date and would greatly enhance the chances of convincing prospective partners that the surface results are significant, that the property has good uranium potential and additional properly designed exploration is warranted.

Respectfully submitted,

Robert E. Schaaf & Associates Inc.  
Geological Consultants



Robert E. Schaaf, Eng.



Mississauga, Ontario  
April 22, 1977



BIBLIOGRAPHY

- Kremko, M. Report on Bottle Bay Lake Property, Temple Twp. Kenora Mining Division, Ontario. June 1976.
- Kremko, M. A Radiometric Survey on part of The Bottle Bay Lake Property, Temple Twp., Kenora Mining District Ontario. November 1976.
- Morse, Robert H. Radon Survey, Bottle Bay Lake Property, Temple Twp., Ontario. November 22, 1976.

APPENDIX A



Check analyses were made by Geophysical Engineering Limited of Bell-White pulp for the hole interval 85.0 feet to 128.0 feet. The check analyses were run by Technical Service Laboratories using X-ray fluorescent and wet chemical methods.

Whereas the Bell-White values ranged between 0.018% and 0.008%  $U_3O_8$ , the TSL analyses were all 0.001% or less with one exception at 0.002%, per attachment.

Thus, the recorded values for DDH F.O.B. 76-1 are suspect and tend to taint the credibility and overall uranium potential of the property at large.

### Undertaking

As instructed, I travelled to Thunder Bay on February 27 and spent the full day, February 28, studying the F.O.B. 76-1 core.

The core is in excellent condition and stored in standard 5-foot wooden trays, each tray accommodating 25 feet. Splitting for analytical purposes was well done.

Intensive and detailed visual and radiometric observations were made with a view to resolution of assaying discrepancies.

### Review Procedures and Observations

Every inch of the core was examined visually, three times at 12X (hand lens) magnification. Yellow oxides (uranophane) were the only uraniferous minerals recognized. Considerable apatite was noted and some questionable fluorite, both of which can carry minor amounts of uranium and thorium. The abundance of apatite is particularly significant suggesting a possible carbonatite affinity for the complex.

Biotite and pyroxene are abundantly distributed, both of which are common uraninite carriers in the Bancroft pegmatitic deposits, but at the reported grades, it would be impossible to recognize associated black uranium minerals megascopically in the F.O.B. core.

Uranophane is concentrated on fractures and in porous oxidation pockets in the upper 75 feet of core but occurs sparsely along fractures for the balance of the core to 501 feet.

The rocks are a melange of granite, aplite and pegmatite, varying from pink to white, with all phases having indistinct boundaries. Metasediments occur at three intervals.

Apart from the detailed visual examination, the core was scanned radiometrically using Exploranium 101A Scintillometer and a McPhar TV-1 Scintillometer.

Three procedures were employed.

1. All of the core was stacked as a compact unit and scanned.
2. Each individual tray was isolated at zero background conditions and scanned.
3. Each individual 5-foot length of core was isolated at zero background and scanned.

The Exploranium 101A, a total response instrument, showed no appreciable variation in counts per second. Amplitudes were extremely high due to the high overall potassium content which could have masked any uranium or thorium concentrations in the reported grade ranges.

The McPhar TV-1 indicated 20-30 counts per minute (cpm)  $U_3O_8$  at 35.0 - 37.0 feet and 10-20 cpm  $U_3O_8$  in the interval 50.0 - 75.0 feet. In the latter case, measurements were erratic, difficult to repeat and difficult to isolate.

With the McPhar TV-1, the combined  $U_3O_8$ -Th measurements (threshold 2) were commonly in the order of 100 cpm but would average in the range of 60 cpm. The thorium (threshold 3) level was fairly constant at 20 cpm.

### Conclusions

Visual and radiometric examination of the core has neither confirmed nor damned the Bell-White assays. Nonetheless they remain suspect and should be checked by further analytical methods.

By way of qualification, neither visual examination nor radiometric examination with the equipment employed can be considered absolute in the grade ranges involved.

As a general statement, uranium analyses by "wet chemical" methods are more likely to understate rather than overstate grades due to solubility (digestion) functions and the masking effects of certain associated elements. Thus, the Bell-White assays retain a certain degree of credibility, that is to say, they could be reasonably accurate, and certainly cannot be totally dismissed on the basis of the few TSL check analyses.

March 3, 1977

However, the existing pulps must be reanalysed in the interest of determining realistic uranium values in F.O.B. 76-1. At the present level of knowledge, the data remain suspect and could have a detrimental effect on the overall property despite the many good surface indications. If the Bell-White data can be substantiated, the merits of the property will be significantly enhanced. If the data do not hold up, the facts will be known and surface exploration can proceed in logical fashion in the search for better drilling targets.

### Recommendations

Analyses: The pulps from F.O.B. 76-1 should be composited to constitute 10 samples overall. Splits should be analysed by X-Ray Laboratories using the X-ray fluorescence method and by the Ontario Department of Mines using the uranium fluorimetric method. Thorium should be assayed as a matter of course.

Mineralogical Study: Selected samples in possession should be examined for uraniferous minerals by the Ontario Department of Mines. The technique employed, in simple terms, involves cutting and polishing of the rock face; exposure to ordinary film to spot the radioactive minerals, and microscopic examination to identify the uraniferous minerals.

Drafting: The Kremko June 15, 1976 Section of F.O.B. 76-1 should be redrafted at 1"=10' to accommodate all of the old and new data as an overall compilation.

Costs are estimated at:

#### Analyses

X-Ray Labs, U <sub>3</sub> O <sub>8</sub> and Th.	
10 samples @ \$16.00	\$ 160.00
ODM Labs, U <sub>3</sub> O <sub>8</sub>	
10 samples @ \$12.00	120.00

#### Mineralogical Study

5 specimens @ \$50.00	250.00
-----------------------	--------

#### Drafting

3 days @ \$80	240.00
---------------	--------

#### Expediting

10 hours @ \$30.00	300.00
--------------------	--------

Mr. F. O. Broennle

- 5 -

March 3, 1977

Summary Report

2 days @ \$250.00 \$ 500.00

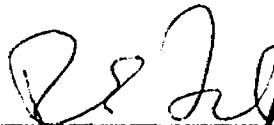

Contingencies and Minor Expenses

Local travel, long distance telephone,  
duplicating 150.00

TOTAL \$1720.00

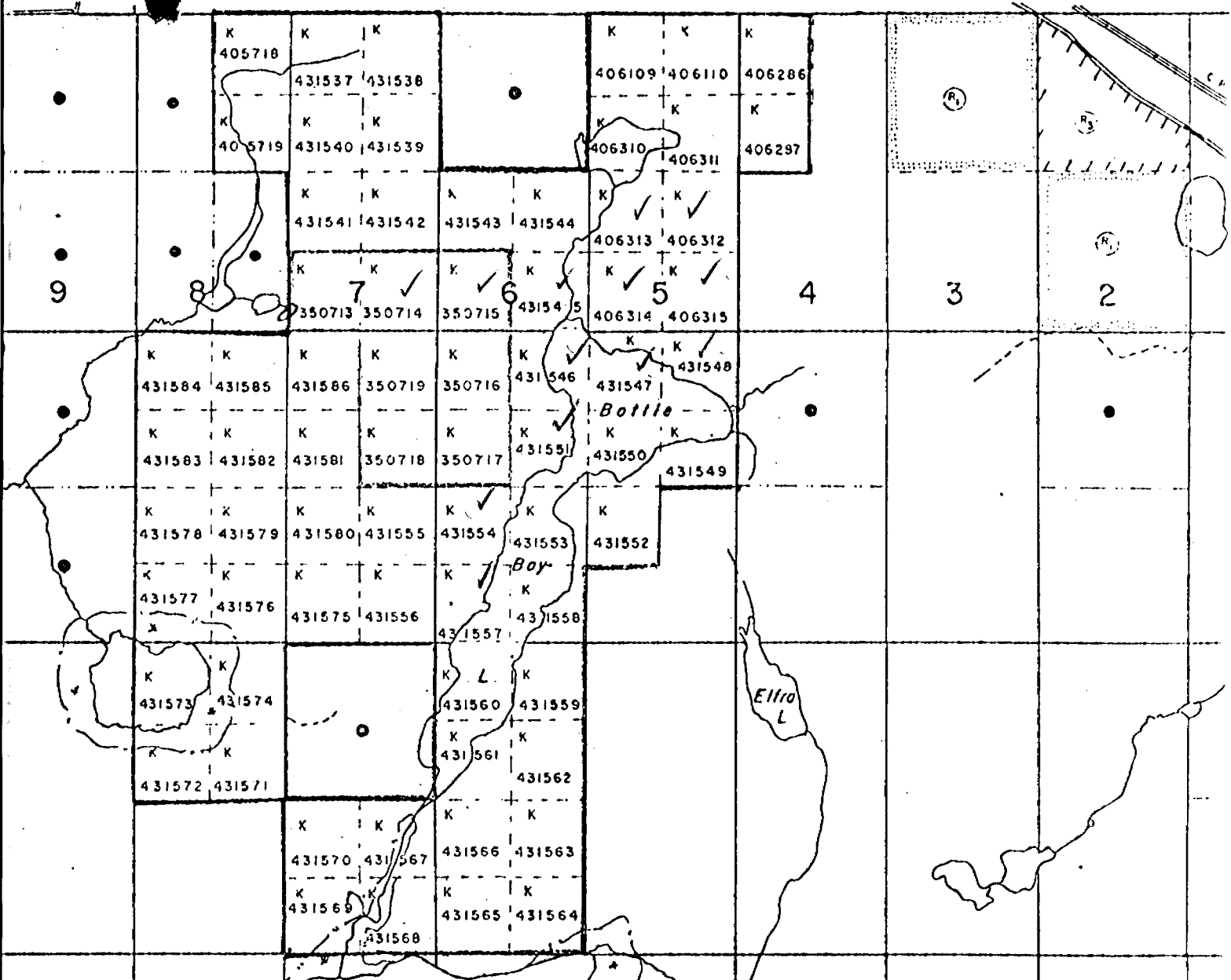
Respectfully submitted,

Robert E. Schaaf & Associates  
Geological Consultants

  
Robert E. Schaaf, P. Eng. 

904 Meadow Wood Road  
Mississauga, Ontario  
L5J 2S6

RES:em



F.O.B. MINING AND EXPLORATION LTD.  
 BOTTLE BAY LAKE URANIUM PROPERTY  
 TEMPLE TOWNSHIP  
 ONTARIO

Scale: 1" = 1/2 mile

Robert E. Schaaf & Associates Inc.



APPENDIX B



Diamond  
Drilling  
Log

File No. 308 26  
Date 1976

Company Pacifier Diamond Drilling	Contract No. -----	Drill Bit 120°	Total Footage 50' 0	Up of Hole at Core = 40'	Location of hole in relation to a fixed point on the claim 4+70 feet north and 2+65 feet east of No. 3 post of claim K350714
Date of Log April 25, 1976	Date of Core May 5, 1976	Logged by Myron Kremko	Submitted by (Signature) <i>Myron Kremko</i>		
Company P. O. Mining and Exploration Ltd.	Date of Log May 29/76				

Claim No. K350714  
Location (Town, Loc. Cont. or "Legal")  
Temple Tp. 30 of 51st  
Concession VI  
Bottle Bay Property

From Feet	To Feet	Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Pitch Feature Angle	Core Specimen Footage 1	Your Sample No.	Sample Footage		Sample Length	G.C.	Assays 1 Au
							From	To			
0	7.2	Overburden	sand, casing			1001	30	33	3.0	0.017	
7.2	30.0	Greywacke-Arkos	sediments, banded, siliceous, light grey, grey, medium to fine grained with quartz, feldspar, sericite & biotite banding (bedding) at 30° to core axis (CA) more massive, almost diabasic from 14.4 to 30.0 - pyritic throughout especially at lower contact lower contact at 30° to CA. Quartz veins at 3.2 (1")	30°		1002	33	38	5.0	0.018	
						1003	38	43	5.0	0.008	
						1004	43	48	5.0	0.007	
						1005	48	51	3.0	0.014	
						1006	51	53	2.0	0.014	
						1007	53	53	5.0	0.011	
						1008	53	53	5.0	0.019	
						1009	63	63	5.0	0.015	
30.0	73.4	Pegmatitic Granite	pink to red, coarse to medium grained granite - colour varies to greenish red - pink feldspars (60%), plagioclase (10%), quartz (30%) and biotite (10-15%) up to 1" diam. both contacts at about 20° to CA, and sharp some lineation at 45° to CA, some pyrite with biotite and late fracture fillings some green apatite material as 1/8" conchoidal crystals as follows - 31.6 to 32.6, 51.7 to 51.8, 52.5 to 52.6, 53.2 to 53.5 - disseminated. sediment inclusions at 36.1 (2"), 38.6 (2") Coarse grained pink pegmatitic sections as follows - 31.5 to 32.6, 34.3 to 35.2, 38.0 to 42.6, 47.5 to 48.6, 49.6 to 53.8, 57.0 to 57.2, 58.2 to 59.5, 65.2 to 66.2, 67.8 to 73.4	45°		1010	68	71.4	3.4	0.015	
						1011	85	91	5.0	0.014	
						1012	90	95	5.0	0.008	
						1013	95	100	5.0	0.014	
						1014	100	105	5.0	0.018	
						1015	105	110	5.0	0.013	
						1016	110	115	5.0	0.012	
						1017	115	120	5.0	0.016	
						1018	120	124	4.0	0.011	
						1019	124	128	4.0	0.008	
						1020	181	185	3.3	0.002	
						1021	185	190	5.0	0.008	
						1022	190	195	5.0	0.021	
						1023	195	200	5.0	0.008	
						1024	200	205	5.0	0.004	
73.4	80.0	Greywacke	as above with coarser and fine grained sections with contacts at 20° to CA - quartz vein at 78.9 (1") - more massive finer grained variety.			1025	205	210	5.0	0.004	
						1026	210	215	5.0	0.015	
						1027	215	220	5.0	0.010	
						1028	215	220	5.0	0.015	
						1029	220	225	5.0	0.014	
						1030	270	275	5.0	0.016	
						1031	280	285	5.0	0.011	
						1032	285	289	4.0	0.010	
						1033	290	295	5.0	0.019	

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assessment Work Regulations.



Mini  
Natural  
Resources

Diamond  
Drilling  
Log

Fill in on every page

Drilling Company <b>Rusarier Diamond Drilling</b>		Colour Elevation -----	Bearing of hole from the North <b>120°W</b>	Total Footage <b>501 feet</b>	Dip of Hole at Collar <b>-40°</b>	Location of hole in relation to a fixed point on the claim. <b>4+70 feet north and 2+65 feet east of No. 3 post claim K350714</b>	Map Reference No. -----
Date Hole Started <b>April 25, 1976</b>	Date Completed <b>May 5, 1976</b>	Date Logged <b>May 26/76</b>	Logged by <b>Myron Krenko</b>	Date Submitted <b>May 29/76</b>	Submitted by (Signature) <i>Myron Krenko</i>		Claim No. <b>K350714</b>
Exploration Co. (Name or Option) <b>F. O. B. Mining and Exploration Ltd.</b>		Location (Twp., Lot, Con. or Lot. and Long) <b>Temple Tp, SE 1/4 of 32 lot 7</b>		Concession No. <b>VI</b>		Property Name <b>Bottle Bay Property</b>	

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle	Core Specimen Footage 1	Your Sample No.	Sample Footage		Sample Length	U 30	Assays 1
From	To						From	To			
123.0	131.2	Greywacke	as above sections, generally fine grained little bedding pyritic throughout, contacts baked at 40° to CA, pyrite in bedding planes	30°		1034	295	300	5.0	0.008	
			medium to fine grained white granitic material as follows			1035	300	305	5.0	0.010	
			129.2 to 129.5, 144.3 (1"), 148.8 (1/2"), 150.8 (1"), 158.2 to 160.5			1036	305	310	5.0	0.008	
			coarse pegmatitic material at 177.0 to 178.4			1037	310	315	5.0	0.010	
						1038	315	320	5.0	0.010	
						1039	320	325	5.0	0.011	
						1040	325	330	5.0	0.008	
181.2	220.0	Pegmatitic Granite	as above - coarse at 181.5 to 186.4, 196.3 to 197.2			1041	330	335	5.0	0.008	
						1042	335	340	5.0	0.010	
						1043	340	345	5.0	0.010	
						1044	345	350	5.0	0.012	
						1045	350	355	5.0	0.008	
220.0	264.8	Greywacke	as above - granite at 223.8 to 224.0 - permatite at 236.0 to 237.1			1046	355	360	5.0	0.011	
			siliceous granitic material at 242.0 to 243.0, 244.2 to 245.0, 246.2(2"), 251.8(1"), 253.9(1"), 257.3(1"), 258.0 to 258.7, 259.4 to 259.6, 262.3 to 263.8			1047	360	365	5.0	0.011	
			pyritic throughout.			1048	365	370	5.0	0.011	
			Lost core at 224 to 235			1049	370	375	5.0	0.010	
						1050	376	381	5.0	0.011	
						1051	381	386	5.0	0.011	
						1052	386	391	5.0	0.049	
						1053	391	396	5.0	0.17	
264.8	501.0	Pegmatitic Granite	as above - some pyrite throughout			1054	396	401	5.0	0.003	
			Coarse grained sections as follows - 266.5 to 266.8, 267.2 to 269.1, 270.6 to 273.9, 278.2 to 282.3, 284.8 to 297.0, 298.2 to 299.5, 313.6 to 315.2, 331.6 to 331.9, 333.0 to 334.0, 336.4 to 338.0, 356.4 to 450.0, 469.0 to 470.0, 472.0 to 473.0, 482.8 to 501.0			1055	401	406	5.0	0.010	
			Missing core - 289.0 to 290.0, 375.0 to 376.0, 433.0 to 439.0, 450.0 to 451.0, 480.0 to 482.8, 489.5 to 490.0, at 494 to 501 out of 7 feet of core 4' are missing			1056	406	411	5.0	0.010	
501.0			End of Hole.								

Core recovery 95% except for missing sections -

No radioactivity above background discovered in core with a GePhar TV-1 Scintillometer

Core stored on property of Deep Drilling Systems, Thunder Bay, Ontario.

For features such as foliation, bedding, schistosity, measured in the long axis of the core. Additional credit available. See Assessment Work Regulations.



Minis  
Natural  
Resources

# Diamond Drilling Log

Fill in on every page  
Hole No. 703 Page No. 3

Drilling Company		Collar Elevation	Direction of hole from True North	Total Footage	Top of Hole at Collar	Location of hole in relation to a fixed point on the claim.	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by		ft.		Location (Twp., Lot, Con. or Lat. and Long.)		
Explosives Co. or Other Explosives		Date Submitted	Submitted by (Signature)		ft.		Property Name		
					ft.		Bottle Bay Lake Property.		

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Incl. or Feature Angle*	Core Specimen Footage †	Your Sample No.	Sample Interval		Sample Length	U. G.	Assays ‡
From	To						From	To			
						1057	411	416	5.0	0.011	
						1058	416	421	5.0	0.011	
						1059	421	426	5.0	0.007	
						1060	426	431	5.0	0.008	
						1061	431	435	4.0	Trace	
						1062	435	438	3.0	0.013	
						1063	439	445	6.0	0.005	
						1064	445	450	5.0	0.013	
						1065	451	455	4.0	0.008	
						1066	455	460	5.0	0.008	
						1067	460	465	5.0	0.008	
						1068	465	470	5.0	0.005	
						1069	470	475	5.0	0.008	
						1070	475	480	5.0	0.043	
						1071	482.8	489.5	6.7	0.004	
						1072	490	495	5.0	0.008	
						1073	495	501	6.0	0.016	

\* For features such as foliation, bedding, schistosity, measured from the long axis of the core. † Additional credit available. See Assessment Work Regulations.

APPENDIX C



### Certificate of Analysis

NO. 7706

DATE: June 9, 1976.

SAMPLE(S) OF: Core(73)

RECEIVED: June 4/76.

SAMPLE(S) FROM: M. Kremko, Esq., F.O.B. Mining & Exploration Ltd.

Sample No.	U308 % Uranium	Sample No.	U308 % Uranium	Sample No.	U308 % Uranium
1001	0.017	1026	0.015	1051	0.011
2	0.018	7	0.010	2	0.049
3	0.008	8	0.015	3	0.17
4	0.007	9	0.014	4	0.003
5	0.014	1030	0.016	5	0.010
6	0.014	1	0.011	6	0.010
7	0.011	2	0.010	7	0.011
8	0.019	3	0.010	8	0.011
9	0.015	4	0.008	9	0.007
1010	0.015	5	0.010	1060	0.008
1	0.014	6	0.008	1	Trace
2	0.008	7	0.010	2	0.013
3	0.014	8	0.010	3	0.005
4	0.018	9	0.011	4	0.013
5	0.013	1040	0.008	5	0.008
6	0.012	1	0.008	6	0.008
7	0.016	2	0.010	7	0.008
8	0.011	3	0.010	8	0.005
9	0.008	4	0.012	9	0.008
1020	0.002	5	0.008	1070	0.043
1	0.008	6	0.011	1	0.004
2	0.021	7	0.011	2	0.008
3	0.008	8	0.011	3	0.016
4	0.004	9	0.010		
5	0.004	1050	0.011		

Sample No. 1001 Nil Oz. Gold

Sample No. 1002 Nil Oz. Gold

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

PER

APPENDIX D

- CHEMICAL RESEARCH AND ANALYSIS
- CONTRACT LABORATORIES

# TECHNICAL SERVICE LABORATORIES

DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED

1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2

TELEPHONE: (416) 625-1544

## CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM Geophysical Engineering Ltd.,  
 Suite 4900, P.O. Box 49,  
 Toronto Dominion Centre,  
 Toronto, Ontario.

SAMPLE(S) OF Attn. J. Kelley  
PULP

REPORT No.  
 T - 02269

Inv. #2909  
 Letter July 13/76

	<u>X-Ray Fluorescence</u>	<u>Fluorimetric</u>
	<u>% U308</u>	<u>% U308</u>
1011	<0.005	Less than .001
1012	<0.005	.001
1013	<0.005	.002
1014	<0.005	Less than .001
1015	<0.005	.001
1016	<0.005	.001
1017	<0.005	Less than .001
1018	<0.005	.001
1019	<0.005	.001

Samples, Pulps and Rejects discarded after two months

DATE July 15th, 1976.

SIGNED \_\_\_\_\_






APPENDIX E



# BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187 HAILEYBURY, ONTARIO TEL: (705) 672-3107  
POJ 1KO

March 16, 1977.

Mr. F. O. Broennie,  
F.O.B. Mining and Exploration Ltd.,  
P. O. Box 2717, Station P,  
Thunder Bay, Ontario.

Dear Sir:

Re: Analysis of samples 1001 to 1073 inclusive for U<sub>3</sub>O<sub>8</sub>.

Mr. R. E. Schaaf has requested, with your authorization, that all data available and general history be forwarded to him for evaluation. We therefore submit the following:

1. All samples were analysed for U<sub>3</sub>O<sub>8</sub> using a colorimetric method (thiocyanate).
2. During the first part of July, 1976, Mr. Broennie requested that certain pulp rejects be sent to Teck Corporation. These were assayed by Technical Service Laboratories with results showing no U<sub>3</sub>O<sub>8</sub> present. We contacted this laboratory as suggested by Mr. Broennie and after speaking with the chief chemist we felt our assays must be in error.
3. Samples 1011 to 1019 inclusive were re-run using our standard <sup>D-1</sup> colorimetric method with the following results in order: 0.016, 0.006, 0.015, 0.021, 0.013, 0.012, 0.015, 0.012, and 0.007 % U<sub>3</sub>O<sub>8</sub>. Samples 1052, 1053, 1011, 1012 were also re-run using different extractions to isolate the uranium with these results: 0.006, 0.008, 0.006, and 0.002 % U<sub>3</sub>O<sub>8</sub>. <sub>D2</sub>
4. Mr. Broennie was then informed by telephone of the discrepancies. We emphasized that our method used in the analysis of his samples was not suitable for these samples and our results on certificate numbered 7706 were incorrect. They appeared to be 0.01 high or even higher in some cases.

D-1

D 2

Page 2

March 16, 1977

● O.B. Mining . . . . .

D3  
5. Samples 1022, 1052, and 1070 were re-run using variations of our colorimetric method with resulting assays of: 0.002, 0.007, and 0.005 %  $U_3O_8$ . Again, we informed Mr. Broennele that our method was not applicable for this material as some element or elements were interfering. We suggested that samples should be sent to The Atomic Energy of Canada Ltd. and be analysed using their "Slowpoke" Reactor. We received no further instructions from Mr. Broennele pertaining to future analyses.

D4  
6. Being concerned with a method for the analysis of  $U_3O_8$  which had been relied upon from the time we assayed all of the Denison's, Canmet's, and many other Mines' samples, we continued research to see if this method could be used with variations for other ores as well as F.O.B. Mining samples. Among samples run in some of the tests were F.O.B. samples 1001 to 1019 inclusive with the following results: 0.005, 0.003, 0.002, 0.002, 0.004, 0.003, 0.002, 0.004, 0.003, 0.003, 0.002, Trace, 0.003, 0.004, 0.002, 0.003, 0.004, 0.003, 0.002.

7. Because of our error we have never sent F.O.B. Mining a statement of the account and have also absorbed all additional costs of research.

8. All sample rejects have been shipped to Mr. Kremko except for numbers 1051, 1052, 1053, and 1054 which are being forwarded on this date by mail to Mr. Schaaf.

9. Any further information related to F.O.B. samples will be forwarded when available.

We sincerely hope that this letter will clear up any misunderstandings. We admit being neglectful in not putting on paper the information transmitted by telephone even though it was not requested.

Yours very truly,



A. E. Grignon

AEG/gg

c.c. R. E. Schaaf, P. Eng.

APPENDIX F

# X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

## Certificate of Analysis

NO. 1172 PAGE 1 of 1

TO. R.E. Schaaf & Assoc.  
904 Meadow Wood Rd.,  
Mississauga, Ont. L5J 2S6

RECEIVED Mar. 20/77

INVOICE NO. 1172

SAMPLE(S) OF 73 pulp

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample  $\%U_3O_8$   $\%ThO_2$

1001-1010	0.005	trace *
1011-1019	nil	nil
1020-1027	trace *	0.005
1028-1030	trace	trace
1031-1040	nil	trace
1041-1051	nil	trace
1052-1053	nil	nil
1054-1060	nil	nil
1061-1069	nil	trace
1070	trace	trace
1071-1073	nil	trace

\*0.0035%

X-RAY ASSAY LABORATORIES LIMITED

March 28/77.

DATE

CERTIFIED BY

*A. Henson*

# Robert E. Schaaf & Associates

GEOLOGICAL CONSULTANTS

~~904 MEADOW WOOD ROAD  
MISSISSAUGA, ONTARIO L5J 2S6  
(416) 823-2499  
(416) 822-4475~~

March 18, 1977

X-Ray Assay Laboratories Limited  
45 Lesmill Road  
Don Mills, Ontario

Attention: Mr. D. Hevener

Dear Mr. Hevener,

Re: F.O.B. Mining Exploration Ltd.  
Bottle Lake Property, Ontario  
DDH FOB-1

We are delivering under cover 75 pulps of the subject core numbered 1001-1050 and 1055-1073. Four additional pulps will follow numbered 1051-1054.

Instructions are:

1. Each sample is to be divided into three equal parts with each 1/3 fraction separately bagged, labelled and packaged.
2. The first 1/3 fraction is to be analysed by your x-ray fluorescence method for  $U_3O_8$  and Thorium. Per telephone conversation of March 11, 1977. I understand the price for the analyses will be \$12.00 for uranium and \$4.00 for Thorium or \$16.00 overall.
3. Each individual sample is not to be analysed separately but rather as composites as follows: 1001 to 1010, 1011 to 1019, 1020 to 1027, 1028 to 1030, 1031 to 1040, 1041 to 1050, 1055 to 1060, 1061 to 1069, 1070, 1071 to 1073.
4. Weighting of individual samples for compositing purposes should be on the basis of the sample length per attachment.
5. Further to point (1), 1/3 of the original samples should be sent directly to Ministry of Natural Resources, Provincial Assay Office, Attention D. Moddle, and the final 1/3 should be forwarded to the letterhead address.
6. All sample material remaining from your 1/3 should also be sent to me on completion of your analyses.

Yours very truly,

RES:em  
enc.

Robert E. Schaaf, P. Eng.

# Robert E. Schaaf & Associates

GEOLOGICAL CONSULTANTS

~~5115 BAYVIEW AVENUE, SCARBOROUGH, ONTARIO M2H 2G4~~  
~~TELEPHONE: (416) 291-3333~~

904 MEADOW WOOD ROAD  
MISSISSAUGA, ONTARIO L5J 2S6  
(416) 823-2499  
(416) 822-4475

March 22, 1977

X-Ray Laboratories Limited  
45 Lesmill Road  
Don Mills, Ontario

Attention: Mr. D. Hevener

Dear Mr. Hevener

Re: F.O.B. Mining Exploration Ltd.  
Bottle Lake Property, Ontario  
DDH FOB-1

Further to my letter of March 18, Item 3, instructions regarding compositing of samples have been revised as follows:

1001 to 1010, 1011 to 1019, 1020 to 1027, 1028 to 1030, 1031 to 1040, 1041 to 1051, 1052 to 1053, 1054 to 1060, 1061 to 1069, 1070, 1071 to 1073.

Very truly yours,

Robert E. Schaaf, P. Eng.

RES:em





APPENDIX G



LABORATORY REPORT  
MINISTRY OF NATURAL RESOURCES  
MINERAL RESEARCH BRANCH  
77 GRENVILLE STREET, 11TH FLOOR  
TORONTO 181, ONTARIO  
TELEPHONE: 965-1337

REPORT NUMBER  
c 18549

DATE April 15th, 1977

ISSUED TO: Robert Schaaf, Robert E. Schaaf & Associates Geol, Consultants  
904 Meadow Wood Road, Mississauga, Ontario L5J 2S6

Re: F.O.B. Mining Expln Ltd.

Sample No.	Uranium Oxide % $U_3O_8$
Composite 1001-1010	0.004
Composite 1011-1019	0.001
Composite 1020-1027	0.001
Composite 1028-1030	0.001
Composite 1031-1040	<0.001
Composite 1041-1050	<0.001
Composite 1051-1054	<0.001
Composite 1057-1060	<0.001
Composite 1061-1069	0.001
1070	0.001
Fees Received Composite 1071-1073	<.001

Inv. #2-6980

  
.....  
(D.A. Moddle, P. Eng.)  
DIRECTOR

# Robert E. Schaaf & Associates

GEOLOGICAL CONSULTANTS

~~ROUTE 77, 111 HIGHWAY ONE STREET WEST, TORONTO, ONTARIO M5E 1E1~~  
~~TEL: (416) 223-2499~~

904 MEADOW WOOD ROAD  
MISSISSAUGA, ONTARIO L5J 2S6  
(416) 823-2499  
(416) 822-4475

March 18, 1977

Mr. D. Moddle  
Ministry of Natural Resources  
Mineral Research Department  
77 Grenville Street  
Toronto, Ontario  
M7A 1N3

Dear Mr. Moddle,

Re: F.O.B. Mining Exploration Ltd.  
Bottle Lake Property, Ontario  
DDH FOB-1

You will be receiving from X-Ray Laboratories 75 plups of the subject core numbered 1001-1050 and 1055 to 1073. Four additional pulps will follow numbered 1051 to 1054.

Instructions are:

1. Each individual sample is not to be analysed separately but rather as composites as follows: 1001 to 1010, 1011 to 1019, 1020 to 1027, 1028 to 1030, 1031 to 1040, 1041 to 1050, 1055 to 1060, 1061 to 1069, 1070, 1071 to 1073, 1051 to 1054.
2. Each composite is to be analysed for  $U_3O_8$  by your fluorimetric method.
3. All remaining sample material should be sent to me on completion of your analyses.

Very truly yours,

  
Robert E. Schaaf, P. Eng.

RES:em

P.S. No. 4 Weighting of individual samples for compositing purposes should be on the basis of the sample length per attachment.





APPENDIX H





LABORATORY REPORT  
MINISTRY OF NATURAL RESOURCES  
MINERAL RESEARCH BRANCH  
77 GRENVILLE STREET, 11TH FLOOR  
TORONTO 181, ONTARIO  
TELEPHONE: 965-1337

REPORT NUMBER  
C 18548

DATE...April 15th, 1977.....

Robert Schaaf, Robert E. Schaaf & Associates Geol, Consultants

ISSUED TO: 904 Meadow Wood Road, Mississauga, Ontario L5J 2S6

Sample Examination

Thirteen specimens of split drill core were received for the purpose of determining what radioactive minerals were present.

Procedure - The thirteen samples, consisting of granite, were checked for radioactivity on the Geiger Counter where they failed to register above the normal background.

Each sample was sawn lengthwise and the resulting smooth faces were placed on a piece of photographic film sensitive to X-rays. After 3 days, the films were developed.

In examining the autoradiographs two samples showed evidence of radioactive mineralization:


No. 41 - Two spots on the film were related to two brownish-black minerals. They were not positively identified because of their fineness of grain, their relatively weak radioactivity suggests that they are thorium-bearing a mineral such as allanite.

No. 51 - Small shadowy zones on the photo could be traced back only to biotite in the hand specimen. Radioactive minerals occurring in granites seem to have an affinity for the mafic constituents.

Conclusion - No significant radioactivity was found in the 13 samples submitted.

Fees Received

Inv. #2-6980

  
.....(D.A. Moddle, P. Eng.).....  
DIRECTOR



Man Days Assessment Work Details

Chemical Analytical Work  
Surface Sampling  
F.O.B. Mining Exploration Ltd.  
Temple Township  
Ontario

RECEIVED  
APR 28 1978  
PROJECTS UNIT

1. Analytical work, surface sampling
2. Temple Township
3. Mining Claims per Schedule 'A' attached
4. NA
5. NA
6. NA
7. NA
8. NA
9. 75 Samples including 2 bulk samples; 85 analysis
10. Summary of assessment credits:

The work was performed during the period 1974 - 1977 by five mining companies and 3 mining individuals. Technical data have been retrieved and compiled per attachments but expenditure details are not retrievable. It is the professional opinion of Robert E. Schaaf, P. Eng. that the work reflects a minimum expenditure of \$100.00 per sample for field, analytical and documentation work.

\$100.00 per sample for field, analytical and documentation work.

75 samples

\$7500.00 total expenditure

\$ 15.00 expenditure factor per day work credit

500 day credit


28 claims

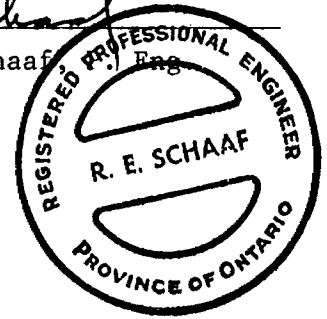
✓ 17.8 days credit per claim

say 18 days credit per claim *8.4*

The following listed dates represent working time spent  
entirely within the limits of the attached listed claims.

April 11, 1978

  
Robert E. Schaaf, Eng.



Period 1974 - 1977:

Falconbridge Nickel Mines Ltd.  
Lacana Mining Corporation  
Geophysical Engineering Ltd.  
Urangesellschaft Canada Ltd.  
A. Glatz, Prospector  
D. Petrunka, Prospector  
F.O.B. Mining Exploration Ltd.  
Robert E. Schaaf & Associates Inc.  
Geological Consultants

SCHEDULE 'A'

MINING CLAIMS

K 350713

K 350714

K 350715

K 350716

K 350717

K 350718

K 350719

K 431539

K 431540

K 431541

K 431542

K 431543

K 431544

K 431545

K 431546

K 431551

K 431553

K 431554

K 431555

K 431556

K 431575

K 431576

K 431580

K 431581

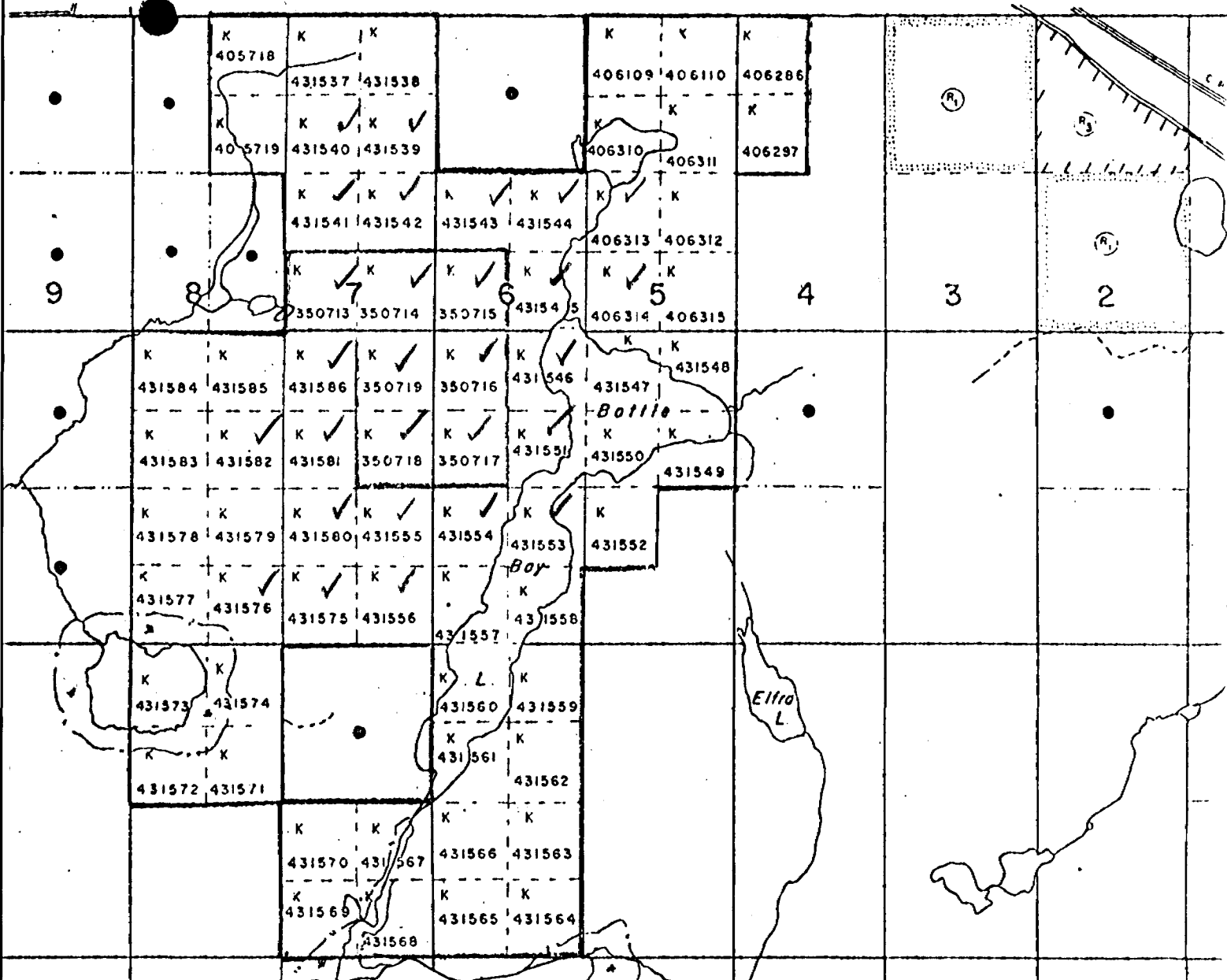
K 431582

K 431586

K 406313

K 406314

28 Claims



F.O.B. MINING AND EXPLORATION LTD.  
 BOTTLE BAY LAKE URANIUM PROPERTY  
 TEMPLE TOWNSHIP  
 ONTARIO

Scale: 1" = 1/2 mile

Robert E. Schaaf & Associates Inc.

RECEIVED  
APR 28 1978  
PROJECTS UNIT

SOURCE DATA  
FOR

F.O.B. MINING & EXPLORATION LTD.

BOTTLE BAY LAKE URANIUM PROPERTY  
TEMPLE TWP., KENORA MINING DIVISION, ONT.

COMPILATION  
PRINCIPAL URANIUM-RADIOACTIVE OCCURRENCES  
AND  
CONSOLIDATION OF SAMPLING DATA

June, 1977

1" = 200'

Map No. 1

ROBERT E. SCHAAF & ASSOCIATES INC.  
MISSISSAUGA, ONTARIO

*R. E. SchAAF*



LABORATORY BRANCH  
DEPARTMENT OF MINES  
WHITNEY BLOCK  
PARLIAMENT BUILDINGS  
TORONTO, ONTARIO



REPORT NUMBER

C 14650

LABORATORY REPORT

DATE March 7, 1969

Telephone: 365-1337

Issued To: A. Glotz, 15 Park Crescent, Dryden, Ontario

Sample Examination

The rock sample is a piece of coarse-grained granite containing considerable light-green apatite along with a secondary yellow uranium-bearing mineral, probably uranophane.

No primary uranium minerals are evident.

We are not able to distinguish between uranium and thorium by the radiometric method used here. We have measured the total radioactivity expressed as  $U_3O_8$  Equivalent as shown below:

Radioactivity (Beta Ray Activity)  
Uranium Oxide ( $U_3O_8$ ) Equivalent

0.63%

*omit touch  
Temple*

Assays for uranium and thorium may be done on this sample if you wish.

The charges are:

Uranium Oxide ( $U_3O_8$ ) - 4 Coupons or \$10.00

Thorium Oxide ( $ThO_2$ ) - 4 Coupons or \$12.00

2

*D. A. Moddle* (D. A. Moddle)  
DIRECTOR

Except by special permission, reproduction of these results must include any acknowledgment made by this department with reference to any sample.

Lot 8

Lot 7

Lot 6

Lot 5



P

P

RADIOACTIVE

RADIOACTIVE  
URANIUM STAIN

(431541)

(431542)

(431543)

(431544)

(406313)

(350713)

PITS & URANIFORMING  
DIT, ADAPTES, PILES  
URANIFORMING

K#44570

PITS & URANIFORMING

PIT URANIFORMING

4 TRENCHES  
30' x 50' WIDE  
DITCH

HIGH RADIOACTIVITY  
HOUSEHOLD USES  
TRENCHES UP TO 36" US'S

(350714)

(350715)

(431545)

(406314)

(431584)

(350719)

(350716)

(431546)

(431581)

(350718)

(350717)

(431551)

TRENCHES  
K#3061  
K#3062  
K#3063  
K#3064  
K#3065  
K#3066  
K#3067  
K#3068  
K#3069  
K#3070  
K#3071  
K#3072  
K#3073  
K#3074  
K#3075  
K#3076  
K#3077  
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K#3089  
K#3090  
K#3091  
K#3092  
K#3093  
K#3094  
K#3095  
K#3096  
K#3097  
K#3098  
K#3099  
K#3100

TRENCH 40-75% US'S

URANIUM STAIN

GRANITES

SEDIMENTS

BOTTLE-BANK LAKE

A. GLATZ  
Prospector  
1975

1 inch = 1/4 mile

# X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD

DON MILLS ONTARIO M3B 2T8

445-5755

## Certificate of Analysis

NO. 738 PAGE 1 of 3

TO. Urangesellschaft Canada Limited,  
Suite 3100, 2 Bloor St. E.,  
TORONTO, Ontario.  
M4W 1A3

Attn: Jeff Packard

RECEIVED Nov. 8, 1976

INVOICE NO. 733

SAMPLE(S) OF 45 rocks

SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	%U <sub>3</sub> O <sub>8</sub>	%ThO <sub>2</sub>
JP56-51	0.005	Nil
52A	Trace	
52B	Trace	Nil
52C	0.015	
52D	0.015	
55	0.005	
55A	0.11	0.025
55B	0.065	
56	0.035	
57	Trace	0.010
57A	0.020	
57B	Nil	
58A	0.025	0.005
58B	0.035	
58C	0.030	
59	0.020	Nil
JP56-60	Trace	Trace
61A	0.075	0.020
61B	0.10	0.025
61C	0.14	
61d	0.13	
62A	0.015	Trace
62B	0.015	
63	0.035	
63A	0.035	
64A	0.080	0.015
64b	0.11	
JP56-65A	0.13	

Sample	%U <sub>3</sub> O <sub>8</sub>	%ThO <sub>2</sub>
JP56-65b	0.22	
68	0.10	
68F	0.11	
JP56-70	0.020	0.035
71A	0.050	0.010
71B	0.020	
JP76-72	0.005	
72A	0.015	Trace
73	0.070	
73B	Trace	
74C	0.010	
74d	Nil	
74e	0.20	
74f	0.19	0.005
74h	0.015	
75	0.18	Trace
JP76-75A	0.12	

BOTTLE BAY ASSAY

JT



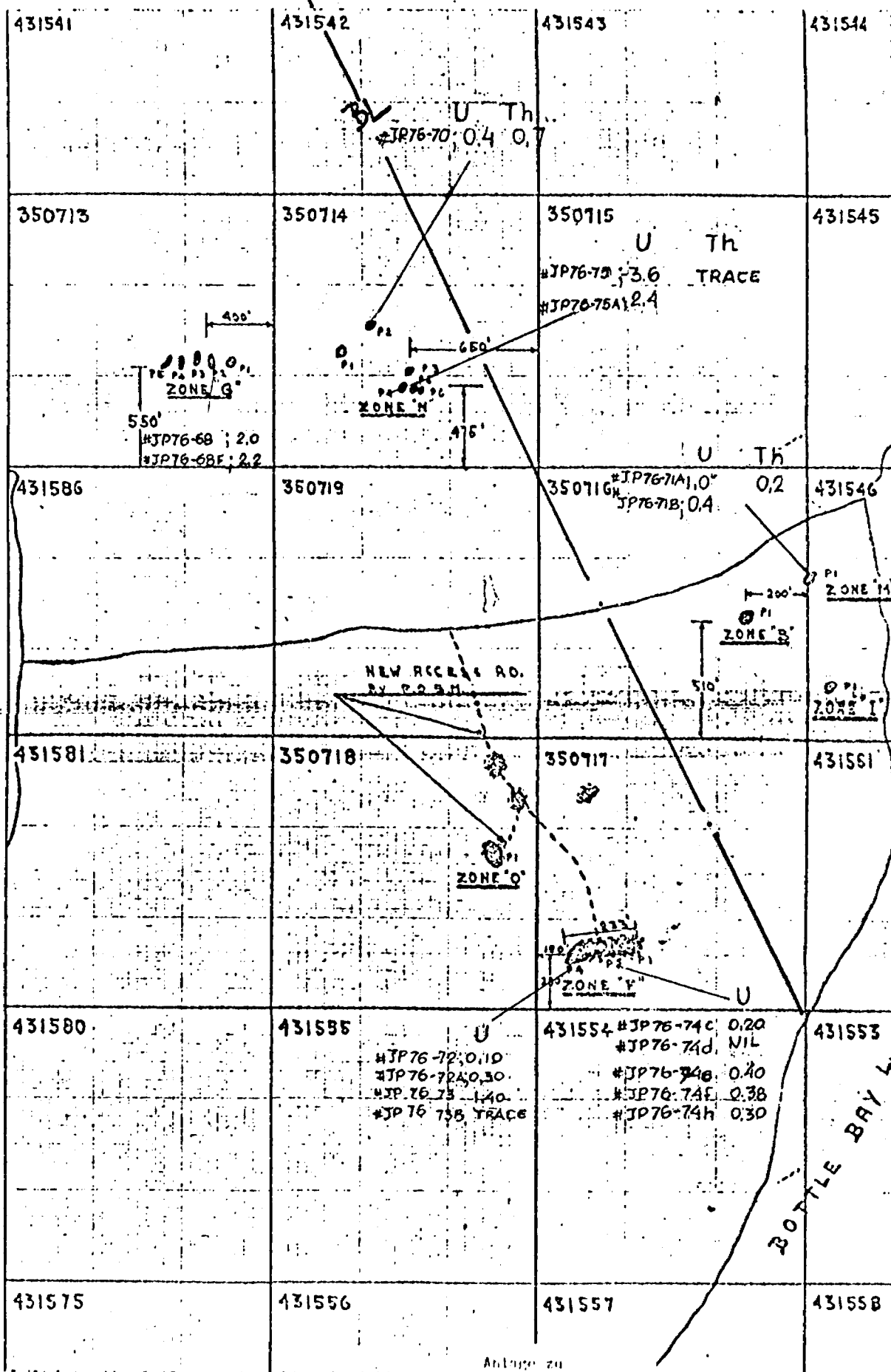
APPENDIX A.

List of samples sent to X-Ray Laboratories, for semi-quantitative fluorimetric analysis.

<u>Sample No.</u>	<u>% U<sub>308</sub></u>	<u>% ThO<sub>2</sub></u>	<u>Sample Site.</u>	<u>Comment.</u>
JP76-68	0.10		Zone G, Pit 2	low activity, heavy stain
JP76-68F	0.11		" "	" "
JP76-70	0.02	0.035	Zone N, Pit 2	5000 cps, very quartzose.
JP76-71A	0.05	0.010	Zone M, Pit 1	moderate activity, apatite
JP76-71B	0.02		" "	" " "
JP76-72	0.005		Zone F, Pit 4	" " "
JP76-72A	0.015		" "	" " "
JP76-73	0.070		" "	" " "
JP76-73B	TRACE		" "	" " "
JP76-74c	0.010		Zone F, Pit 2	high activity, apatite
JP76-74d	NIL		" "	" "
JP76-74e	0.20		" "	" "
JP76-74f	0.19		" "	" "
JP76-74h	0.015		" "	" "
JP76-75	0.18	TRACE	Zone N, Pit 4	moderate activity.
JP76-75A	0.12		" "	" "

APPENDIX B.

Obs / Tan



LEGEND TRENCH

AREA OF STRIPPED

Amber to  
BMR-Info 211/476  
Bottle Bay Prop.  
Florida

NO. 211/476...  
BOTTLE BAY PROP.  
TOWN OF...

# URANGESELLSCHAFT

Canada Limited



Mr. F. O. Breennle  
F.O.B. Mining &  
Exploration Ltd.  
P.O. Box 1237  
Thunder Bay, Ontario  
P7C 4X9

TORONTO, ONTARIO  
Suite 3100, 2 Bloor Street East  
M4W 1A8  
Telephone: (416) 961-2182  
Telex: 06-217740  
Cables: MONTAN

December 22, 1976

JT/sf

Re: Bottle Bay Property

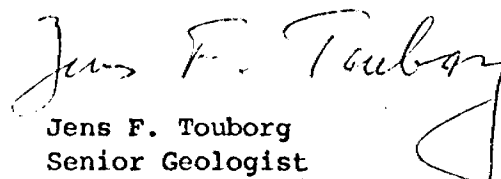
Dear Sir:

We would like to thank you for having given us the opportunity to examine your Bottle Bay property. The Bottle Bay showings are very similar to the ones we worked on in the Mont Laurier District.

Following careful examination of the data you submitted to us and those compiled by Jeff Packard, we have decided not to take any further action.

Please find enclosed the reports you lent us.

Sincerely yours,

  
Jens F. Touborg  
Senior Geologist

Enclosure



# BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5

PHONE: 237-3110

## Geochemical Lab Report

Extraction U<sub>3</sub>O<sub>8</sub> Report No. 885-6  
 Method XRF From Lacana Mining Corporation  
 Fraction Used -100 rocks. Date August 19, 1976

SAMPLE NO.		U <sub>3</sub> O <sub>8</sub> ppm	%	lbs		REMARKS
629		142	.0192	.284	}	<del>Property other than Temple Twp.</del>
630		122	.0127	.244		
631	↑	118	.0115	.236	}	Temple Twp. Random chip sample over the 4 trenches at Zone "G"
632	↓	261	.0261	.522		

LACANA

Frank Guardia

FEB 25 / 77

Ed Thompson to arrange delivery  
 Sample material 631 - 632 to  
 RES.

- CHEMICAL RESEARCH AND ANALYSIS
- CONTRACT LABORATORIES

**TECHNICAL SERVICE LABORATORIES**  
 DIVISION OF BURGNER TECHNICAL ENTERPRISES LIMITED  
 1301 FEWSTER DRIVE, MISSISSAUGA, ONT. L4W 1A2  
 TELEPHONE: (416) 625-1544

**CERTIFICATE OF ANALYSIS**

SAMPLE(S) FROM Geophysical Engineering Ltd.,  
 Suite 4900, P.O. Box 49,  
 Toronto-Dominion Centre,  
 Toronto, Ontario. M5K 1E8  
 SAMPLE(S) OF Attn. G. H. Johnstone & J. Kelly  
ROCK

REPORT No.  T - 02228  Inv. #2785
---

Uranium Oxide (U<sub>3</sub>O<sub>8</sub>) %      Thorium Oxide (ThO<sub>2</sub>) %

1	0.008	0.031
2	<0.005	<0.005
3	0.012	<0.005
4	<0.005	<0.005
5	<0.005	<0.005
6	0.055	<0.005
7	0.048	<0.005

→ R.E. Schaub  
 c/o Kenneco  
 2308 Royal Trust Tower  
Deliver

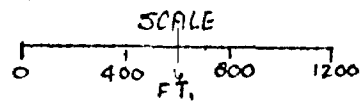
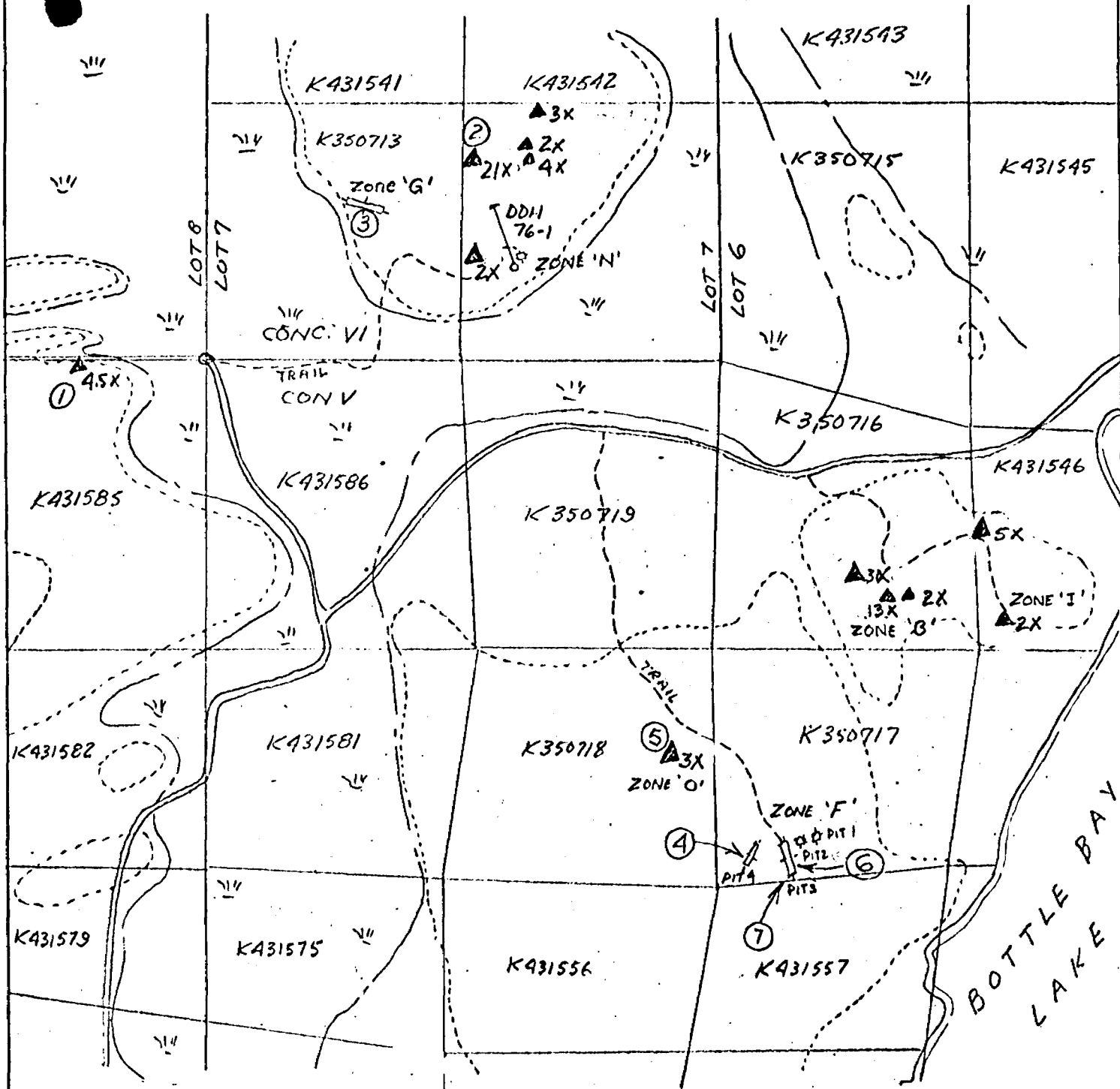
Res. Pulps and Rejects discarded after two months

June 30th, 1976.

SIGNED

*[Handwritten Signature]*





**Symbols**

- OUTCROP AREA
- 5x▲ r.a. x b.g.
- trench
- road
- ② sample location & no.

**Sample Results**

No.	% U	% Th
1	0.008	0.031
2	20.005	20.005
3	0.012	20.005
4	20.005	20.005
5	20.005	20.005
6	0.055	"
7	0.048	"

**GEOPHYSICAL ENGINEERING LIMITED**

FOR MINING & EXPL'N.

**BOTTLE BAY LAKE**

**URANIUM PROSPECT**

TEMPLE TP. - ONTARIO

---

Geology by M. Kremko  
April - May, 1976

NTS: 52-F-1A



BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

## Certificate of Analysis

NO. 23643A

DATE: October 7, 1975.

SAMPLE(S) OF: Rock(16)

RECEIVED: October 2/75.

SAMPLE(S) FROM: F. O. Broennle, Esq., F.O.B. Mining & Exploration Ltd.

<u>Sample No.</u>	<u>% U<sub>3</sub>O<sub>8</sub></u>
O-1A	0.040
O-1B	0.059
O-1C	0.043
O-1D	0.027
2-0	0.027
2-1	0.051
2-2	0.084
2-3	0.025
2-4	0.072
3-1	0.028
3-2	0.038
4-0	0.061
4-1	0.060
4-2	0.090
4-3	0.028
F4-H	0.144

Note: This certificate replaces certificate No. 23643.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER. 



# BELL-WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187.

HAILEYBURY, ONTARIO

TEL: 672-3107

## Certificate of Analysis

NO. 25194

DATE: October 17, 1975.

SAMPLE(S) OF: Rock(13)

RECEIVED: October 10/75.

SAMPLE(S) FROM: F. O. Broennle, Esq., F. O. B. Mining & Exploration Ltd.

		<u>% U<sub>3</sub>O<sub>8</sub></u>	
Zone	B	Pit 1	0.023 ✓
	F	2	0.113 ✓
	F	3	0.151 ✓
	F	4	0.113 ✓
	G	1-2-3-4	0.148 ✓
	I	1	0.038 ✓
	M	1	0.022 ✓
	Z	1	0.075 ✓
	Z	2	0.047 ✓
	Z	3	0.075 ✓
	Z	4	0.066 ✓
	Z	5	0.038 ✓
	O	1	0.076 ✓

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER 





BELL - WHITE ANALYTICAL LABORATORIES LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

## Certificate of Analysis

NO. 25723

DATE: October 22, 1975.

SAMPLE(S) OF: Rock(1)

RECEIVED: October 17/75.

SAMPLE(S) FROM: F. O. Broenne, Esq., F.O.B. Mining & Exploration Ltd.

Zone F

Pit 3

% U<sub>3</sub>O<sub>8</sub>  
0.148

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PER 

<u>ZONE #</u>	<u>PIT #</u>	<u>%</u>	<u>#'s</u>	<u>oz.</u>
I	1	.038	.76 #	12.16 oz.
F	2	.113	2.26 #	2# 4.16 oz.
F	3	.151, .148	3.02 #	3# 3.2 oz.
F	4	.113	2.26 #	2# 4.16 oz.
B	1	.023	.46 #	7.36 oz.
G	1	.148	2.96 #	2# 15.36 oz.
	2			
	3			
M	1	.022	.44 #	7.04 oz.
N	1	.075	1.50 #	1# 8 oz.
N	2	.047	.94 #	15.04 oz.
N	3	.075	1.5 #	1# 8 oz.
N	4	.066	1.32 #	1# 5.12 oz.
N	5	.038	.76#	12.16 oz.
O	1	.076	1.52#	1# 8.32 oz.

.985

Pit "0"	0 - 1	A	.004	.040	.8 #	12.8 oz.
	0 - 1	B	.004	.059	1.18 #	1# 2.88 oz.
	0 - 1	C	.004	.043	.86 #	13.76 oz.
	0 - 1	D	.003	.027	.54#	8.64 oz.
Pit 2	2 - 0		.003	.027	.54 #	8.64 oz.
	2 - 1		.005	.051	1.02 #	1 # 3.2 oz.
	2 - 2		.008	.084	1.68#	1# 10.8 oz.
	2 - 3		.003	.025	.5 #	8 oz.
	2 - 4		.007	.072	1.44 #	1# 7.04 oz.
Pit 3	3 - 1		.003	.028	.56 #	8.96 oz.
	3 - 2		.004	.038	.76 #	12.16 oz.
Pit 4	4 - 0		.006	.061	1.22 #	1# 3.52 oz.
	4 - 1		.006	.060	1.2 #	1# 3.2 oz.
	4 - 2		.009	.090	1.8 #	1# 12.8 oz.
	4 - 3		.003	.028	.56 #	8.96 oz.
	F - 4 - H		.014	.144	2.88 #	2# 14.08 oz.

553

322



Ontario

Ministry of N

GEOPHYSICAL - GEOL  
TECHNICAL D



52F14SW8160 2.2668 TEMPLE

F:1-

900

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT  
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT  
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOLOGICAL

Township or Area TEMPLE

Claim Holder(s) F.O.B. MINING EXPLORATION LTD.

Survey Company ROBERT E. SCHAAF & ASSOCIATES INC.

Author of Report E.L. HOFFMAN

Address of Author 90A MEADOW WOOD ROAD

MISSISSAUGA, ONTARIO L5J 2S6

Covering Dates of Survey AUGUST 1 - OCTOBER 1, 1977  
(linecutting to office)

Total Miles of Line Cut \_\_\_\_\_

MINING CLAIMS TRAVERSED  
List numerically

SCHEDULE A ATTACHED  
(prefix) (number)

SPECIAL PROVISIONS  
CREDITS REQUESTED

DAYS  
per claim

ENTER 40 days (includes  
line cutting) for first  
survey.

ENTER 20 days for each  
additional survey using  
same grid.

Geophysical \_\_\_\_\_  
-Electromagnetic \_\_\_\_\_  
-Magnetometer \_\_\_\_\_  
-Radiometric \_\_\_\_\_  
-Other \_\_\_\_\_  
Geological 20  
Geochemical \_\_\_\_\_

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

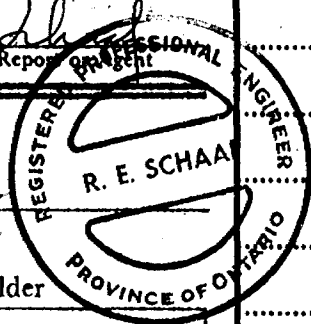
DATE: 11 APRIL 1978 SIGNATURE: [Signature]  
Author of Report

Res. Geol. L.D. Qualifications New on this file

Previous Surveys

File No. Type Date Claim Holder

File No.	Type	Date	Claim Holder



TOTAL CLAIMS 69

If space insufficient, attach list

SCHEDULE A

MINING CLAIMS

K 350713
K 350714
K 350715
K 350716
K 350717
K 350718
K 350719
K 405710
K 405719
K 406109
K 406110
- K 406286
<u>K 406287</u>
K 406310
K 406311
K 406312
K 406313
K 406314
K 406315
K 431537
K 431538
K 431539
K 431540
K 431541
K 431542
K 431543
K 431544
K 431545
K 431546 -
K 431547
K 431548
K 431549
K 431550
K 431551
K 431552

2/3 not covered

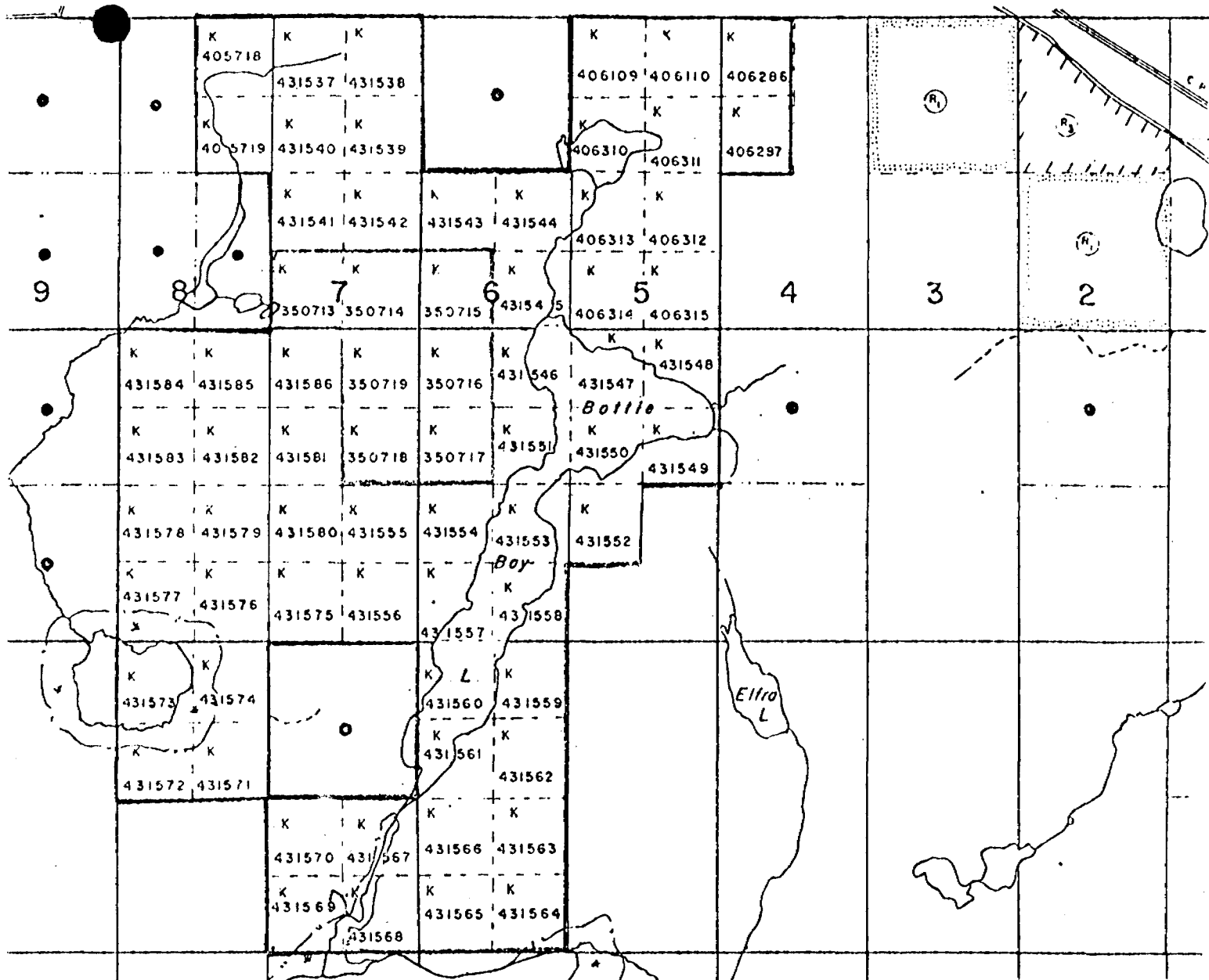
K 431553
K 431554
K 431555
K 431556
K 431557
K 431558
K 431559
K 431560
- K 431561
- K 431562
<u>K 431563</u>
<u>K 431564</u>
- K 431565
- K 431566
K 431567
K 431568
K 431569
K 431570
K 431571
K 431572
K 431573
K 431574
K 431575
K 431576
K 431577
K 431578
K 431579
K 431580
K 431581
K 431582
K 431583
K 431584
K 431585
K 431586

1/3  
2/3

1/2  
2/3

- 10 days each / others 20 days each

\* Circled mining claims (3) not covered / No Credits



F.O.B. MINING AND EXPLORATION LTD.  
 BOTTLE BAY LAKE URANIUM PROPERTY  
 TEMPLE TOWNSHIP  
 ONTARIO

Scale: 1" = 1/2 mile

Robert E. Schaaf & Associates Inc.

NOTES

400' surface rights reservation along the shores of all lakes and rivers

This Township lies within the Corporation of the Township of MACHIN

RESERVES

- Ⓡ surface rights withdrawn from staking under Sect 39(d) of Mining Act (R.S.O.'50) 18 July '55 File: 8651
- Ⓡ reserved for public use, 29 Sept 52 File: 53817
- Ⓡ reserved for reforestation File 18131
- Ⓡ Crown reserve File 163473

SAND & GRAVEL

- Ⓡ Gravel File: 80843
- Ⓡ " " 190861

DATE OF ISSUE  
MAY - 5 1978  
SURVEYS AND MAPPING  
BRANCH



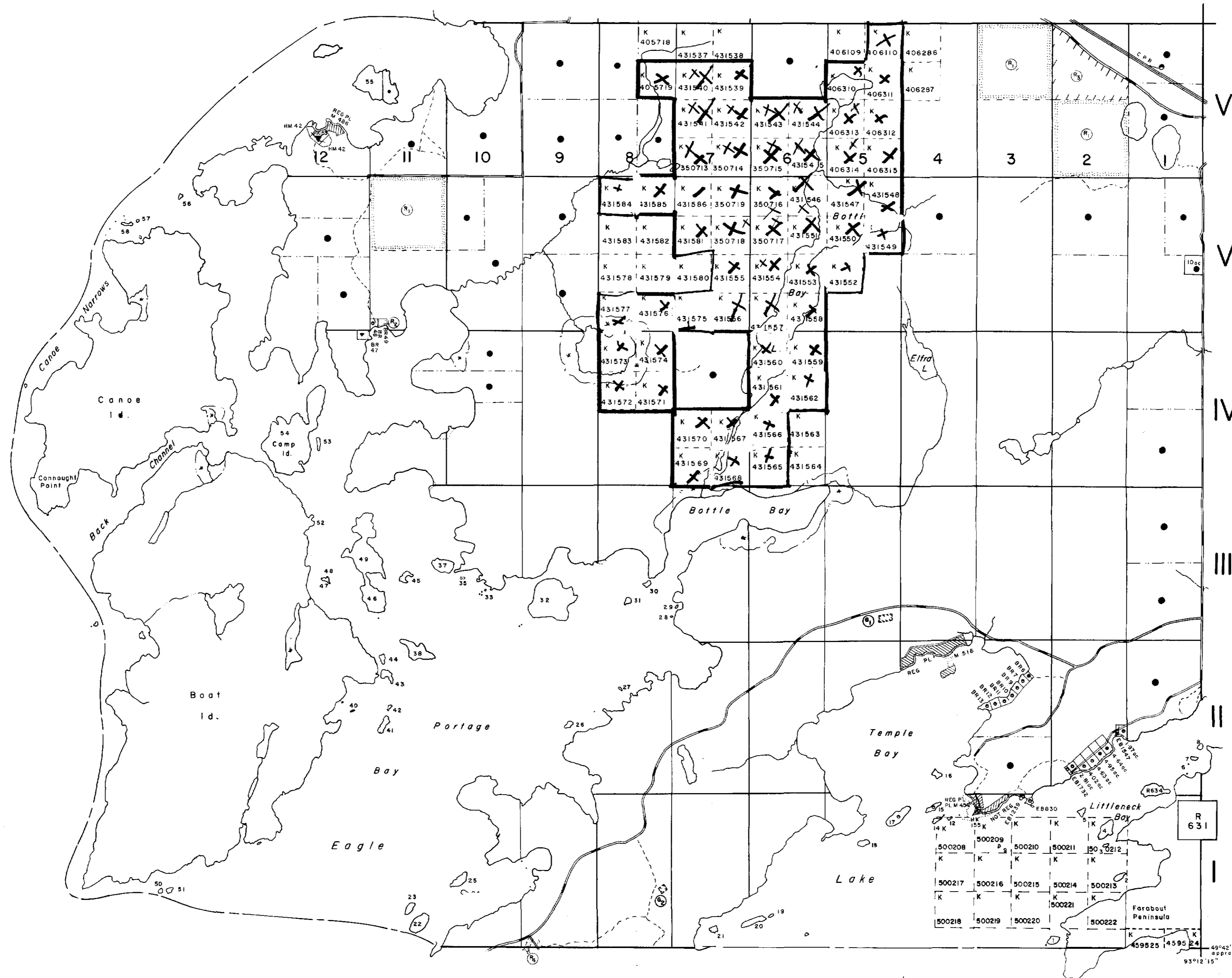
52P145W8100 2.2668 TEMPLE

200

MUTRIE Tp. M.2013

VERMILION BAY M.2046

M.1729



GARNET BAY M.1729

BUCHAN BAY M.1288

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
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

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	◄
CROWN LAND SALE	C.S.
ORDER-IN-COUNCIL	OC
RESERVATION	Ⓡ
CANCELLED	Ⓢ
SAND & GRAVEL	Ⓡ

*1 = geological*

SCALE: 1 INCH = 40 CHAINS



ACRES      HECTARES



TOWNSHIP 2.2668,3

**TEMPLE**

DISTRICT  
KENORA  
MINING DIVISION  
KENORA

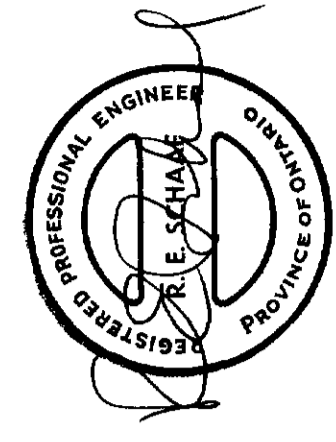
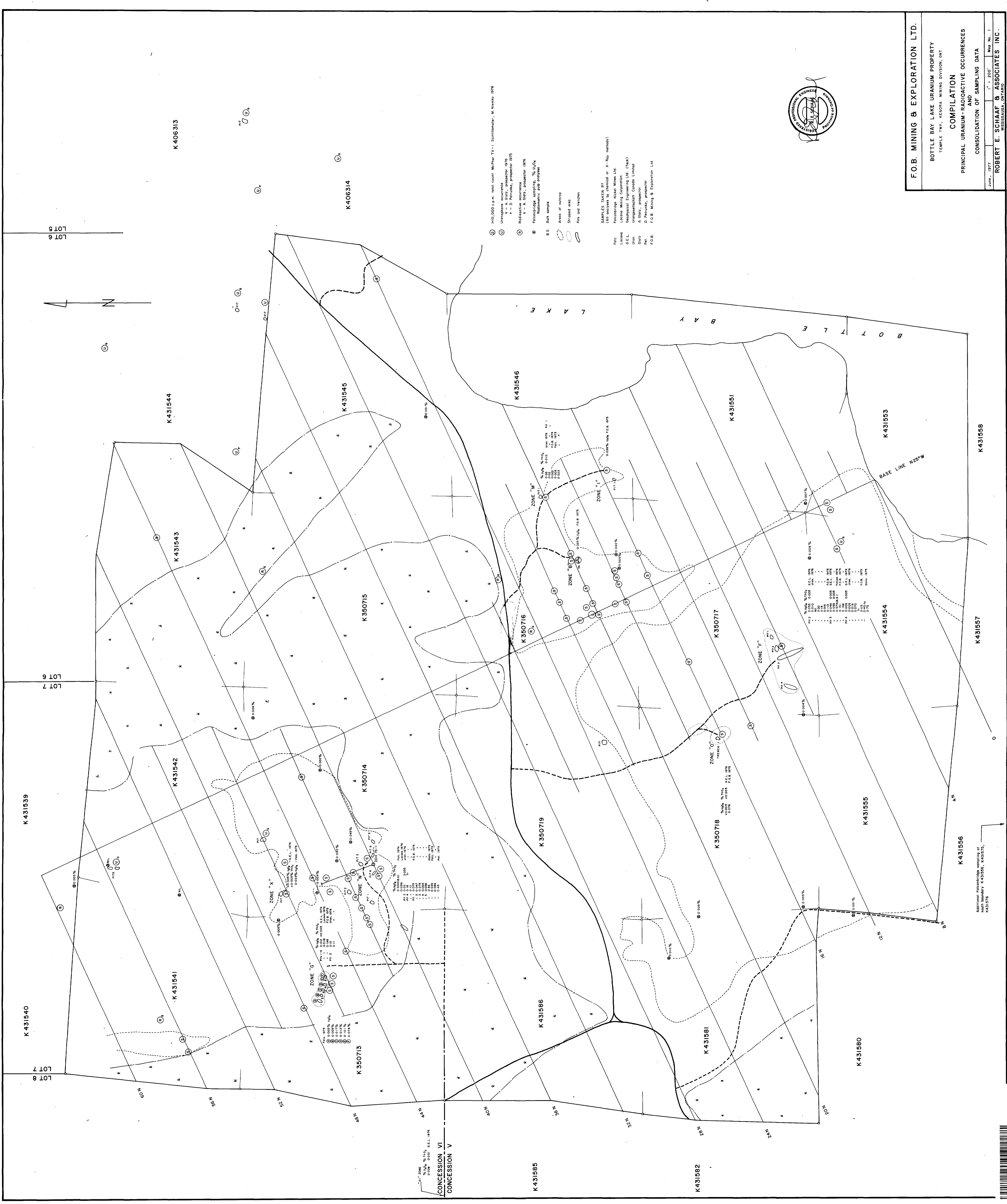
Ministry of Natural Resources

Ontario Surveys and Mapping Branch

Date 9-75 Plan No.

Whitney Block Queen's Park, Toronto **M.2047**

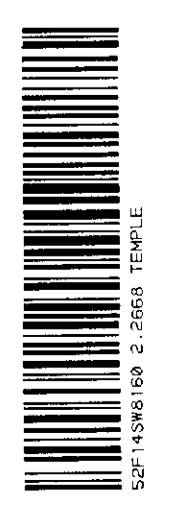
AUBREY Tp. M. 1944



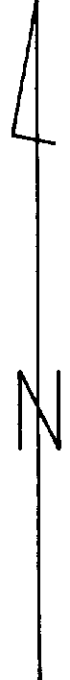
**F.O.B. MINING & EXPLORATION LTD.**  
 BOTTLE BAY LAKE URANIUM PROPERTY  
 TEMPLE TWP., KENORA MINING DIVISION, ONT.  
**COMPILATION**  
 PRINCIPAL URANIUM-RADIOACTIVE OCCURRENCES  
 AND  
 CONSOLIDATION OF SAMPLING DATA  
 Scale: 1:200 Map No. 1  
**ROBERT E. SCHAAF & ASSOCIATES INC.**  
 MISSISSAUGA, ONTARIO

**SAMPLES TAKEN BY:**  
 (1) Samples by contract or X-Ray methods  
 (2) Samples by contract or X-Ray methods  
 (3) Samples by contract or X-Ray methods  
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 (100) Samples by contract or X-Ray methods

Additional Radioactive sampling at  
 locations K431536, K431537,  
 K431538





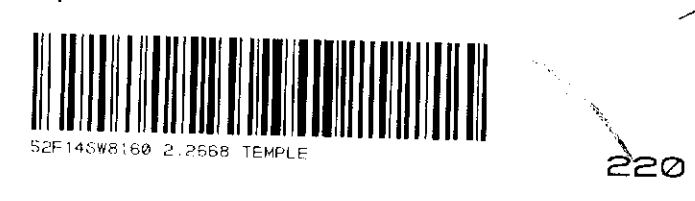


4 PATENT

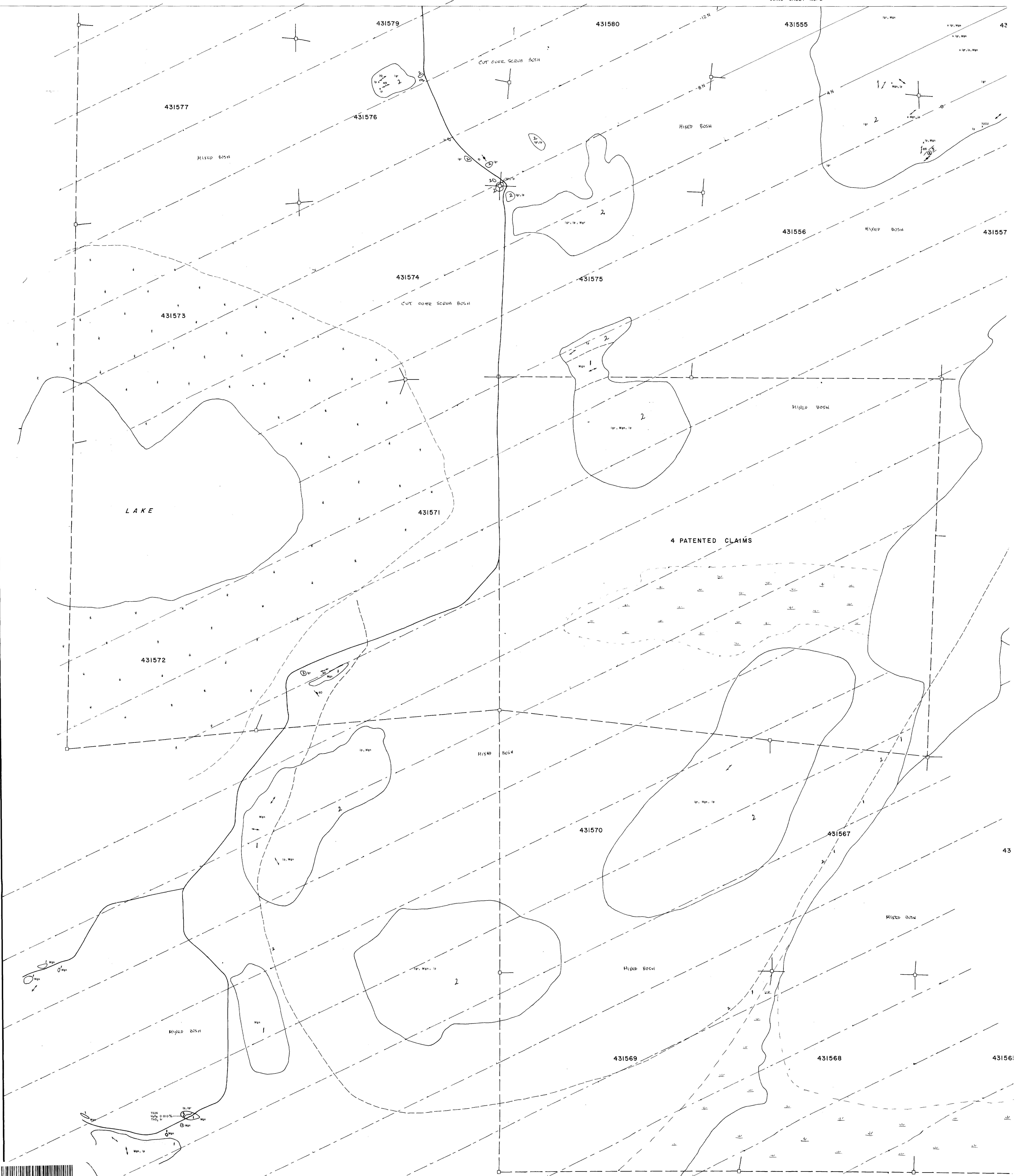
4 PATENTED CLAIMS

SEE DETAIL MAP

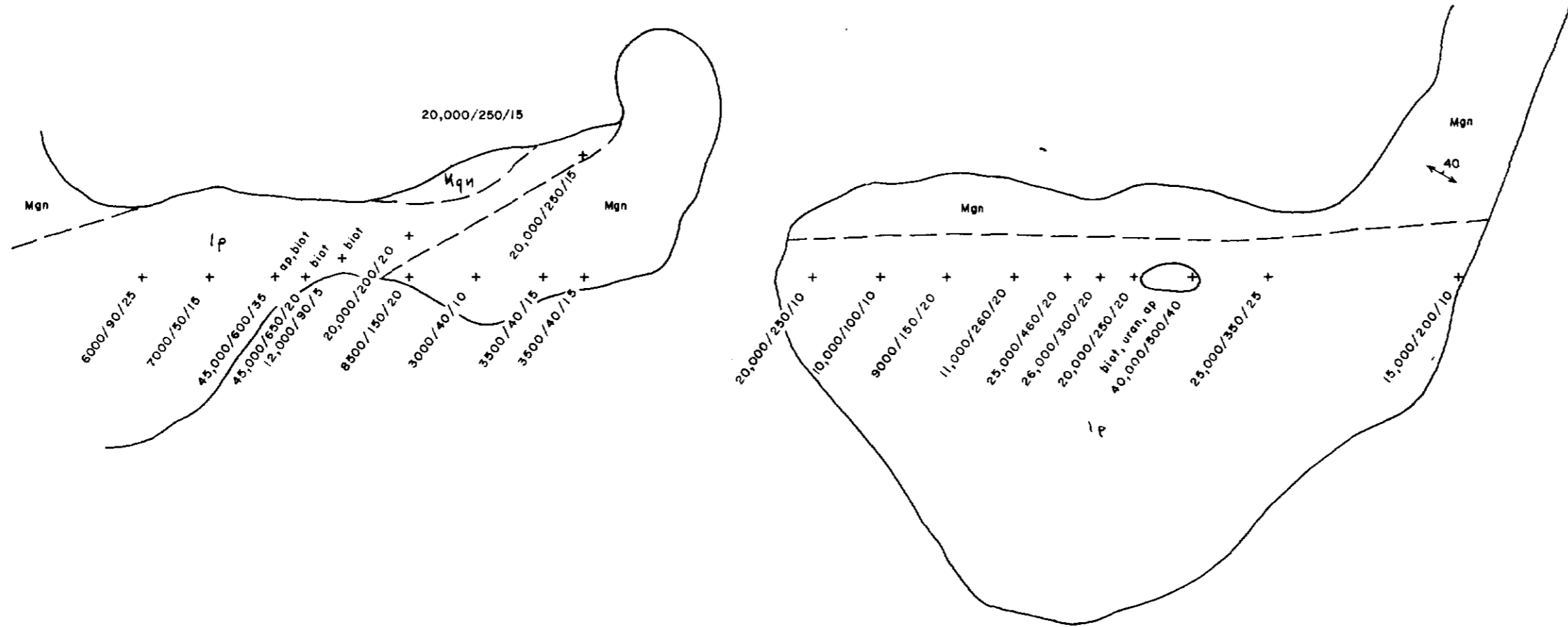
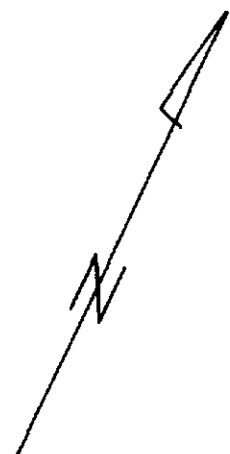
SEE DETAIL MAP







2+00E      2+25E      2+50E      2+75E      3+00E      3+25E      3+50E      20+00N



**LEGEND**

- Mgn - PARAGNEISS
- Ip - PEGMATITE
- Gneissosity
- x 7000/50/15 K+U+Th/U+Th/Th counts per minute

*E. Hoffman*      2.2668,2

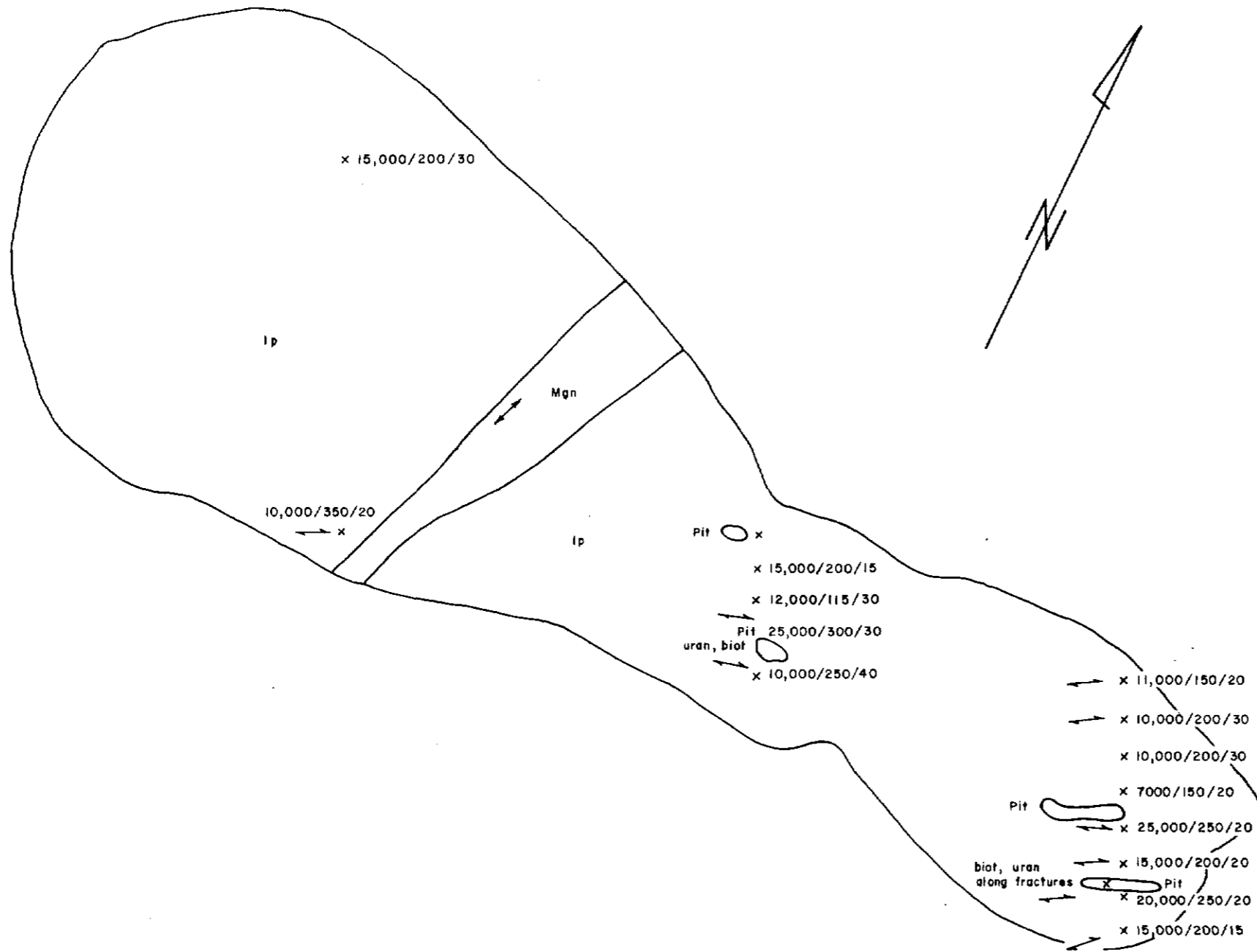
**F.O.B. MINING & EXPLORATION LTD.**

BOTTLE BAY LAKE URANIUM PROPERTY  
 TEMPLE TWP., KENORA MINING DIVISION, ONT.

**GEOLOGICAL & RADIOMETRIC MAPPING**  
**ZONE - B**

August, 1977	Geology by: E. Hoffman	1" = 10'	Map No.
<b>ROBERT E. SCHAAF &amp; ASSOCIATES INC.</b>			
MISSISSAUGA, ONTARIO			





- LEGEND**
- Mgn - PARAGNEISS
  - Ip - PEGMATITE
  - $\longleftrightarrow$  Gneissosity
  - $\rightarrow$  Foliation
  - x 7000/50/15 K+U+Th/U+Th/Th counts per minute

*E. A. Hoffman* 2.2668, 1

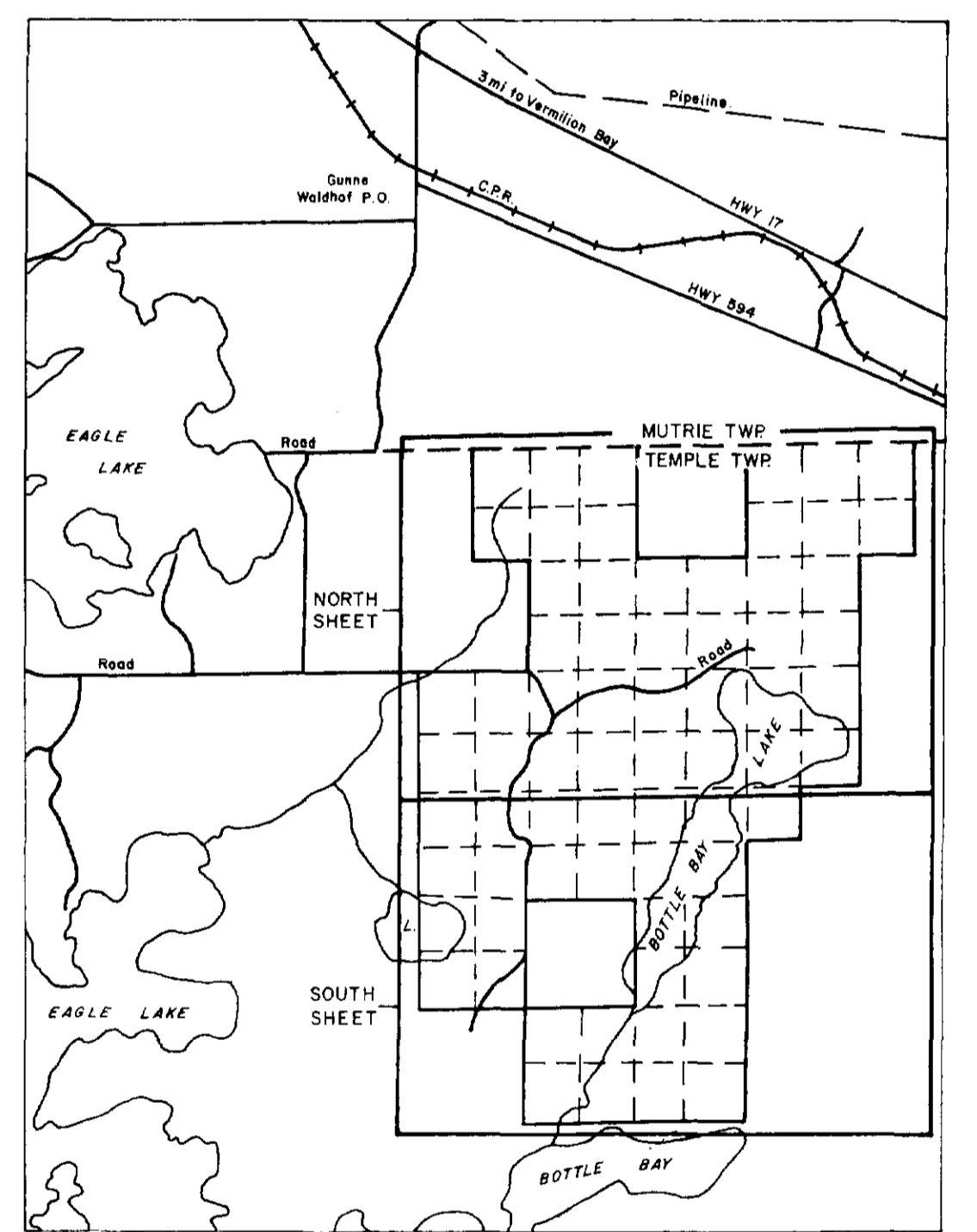
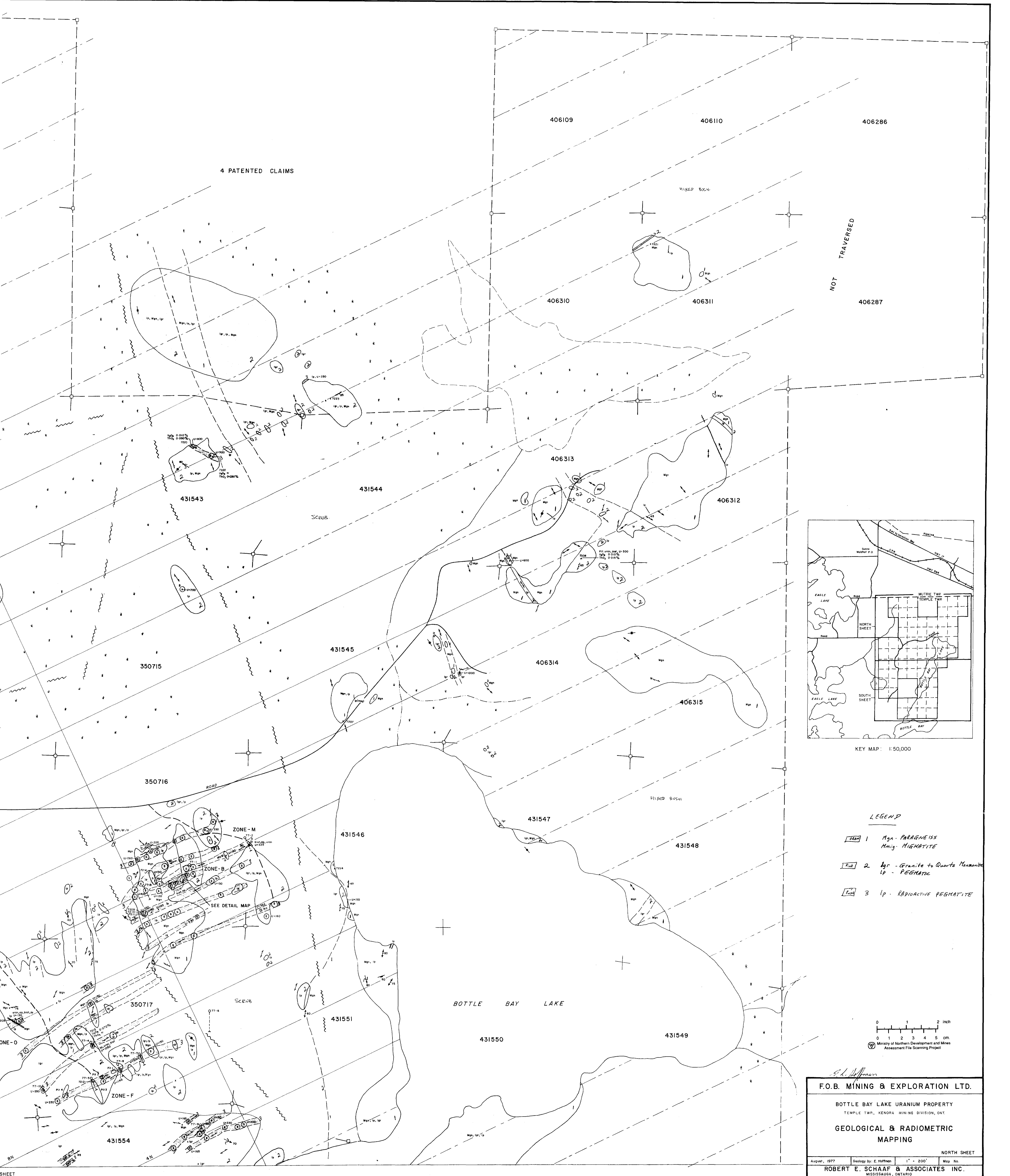
**F.O.B. MINING & EXPLORATION LTD.**

BOTTLE BAY LAKE URANIUM PROPERTY  
 TEMPLE TWP., KENORA MINING DIVISION, ONT.

**GEOLOGICAL & RADIOMETRIC MAPPING  
 ZONE - G**

August, 1977	Geology by: E. Hoffman	1" = 20'	Map No.
<b>ROBERT E. SCHAAF &amp; ASSOCIATES INC.</b> MISSISSAUGA, ONTARIO			

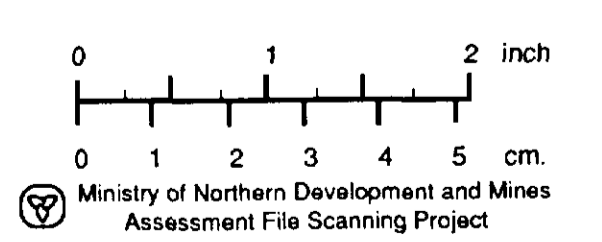




KEY MAP: 1:50,000

LEGEND

- 1 Mgn - PARAGNEISS  
Mnig - MICHMATITE
- 2 Ig - Granite to Quartz Monzonite  
lp - PEGMATITE
- 3 lp - RADIOACTIVE PEGMATITE



*E. Hoffman*

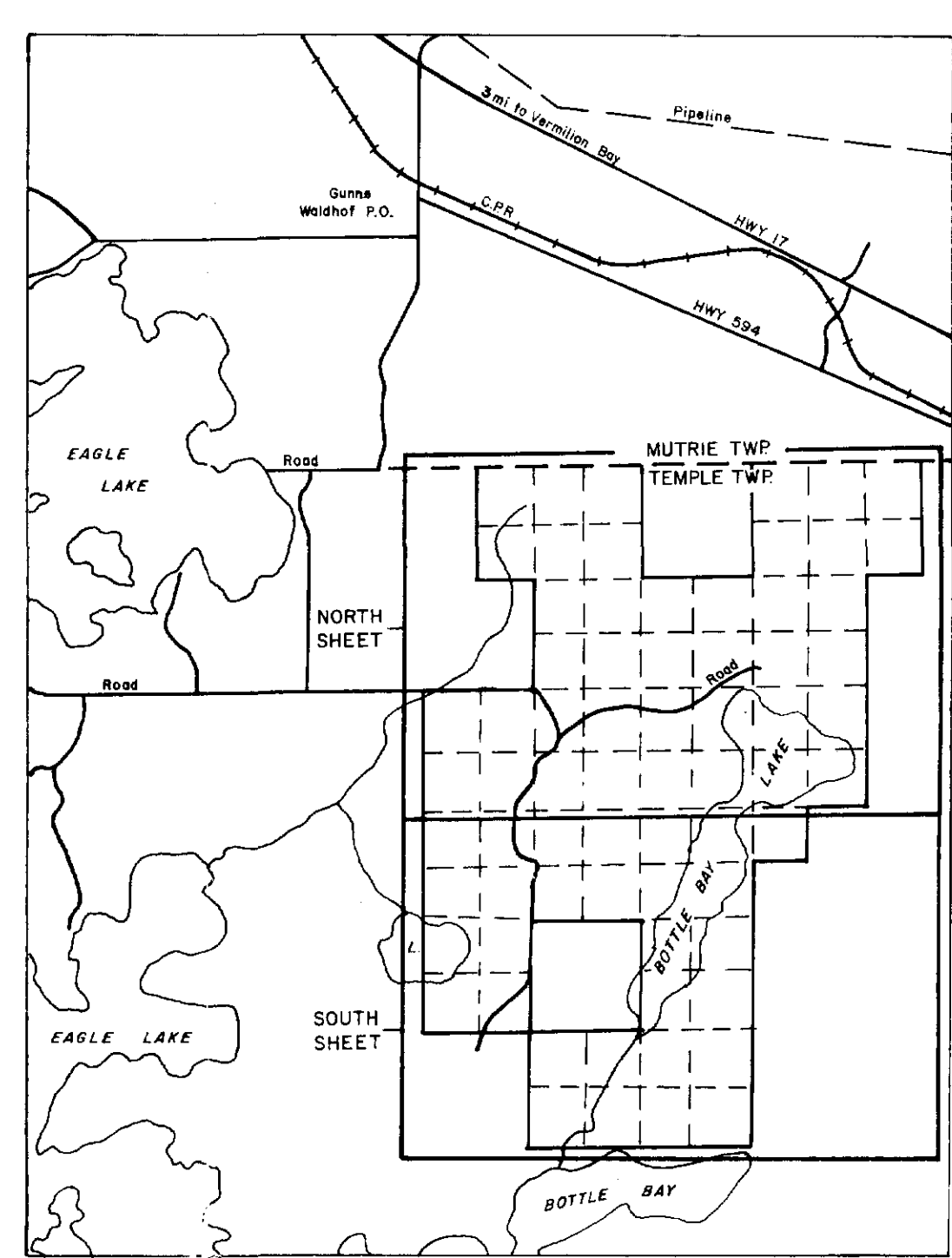
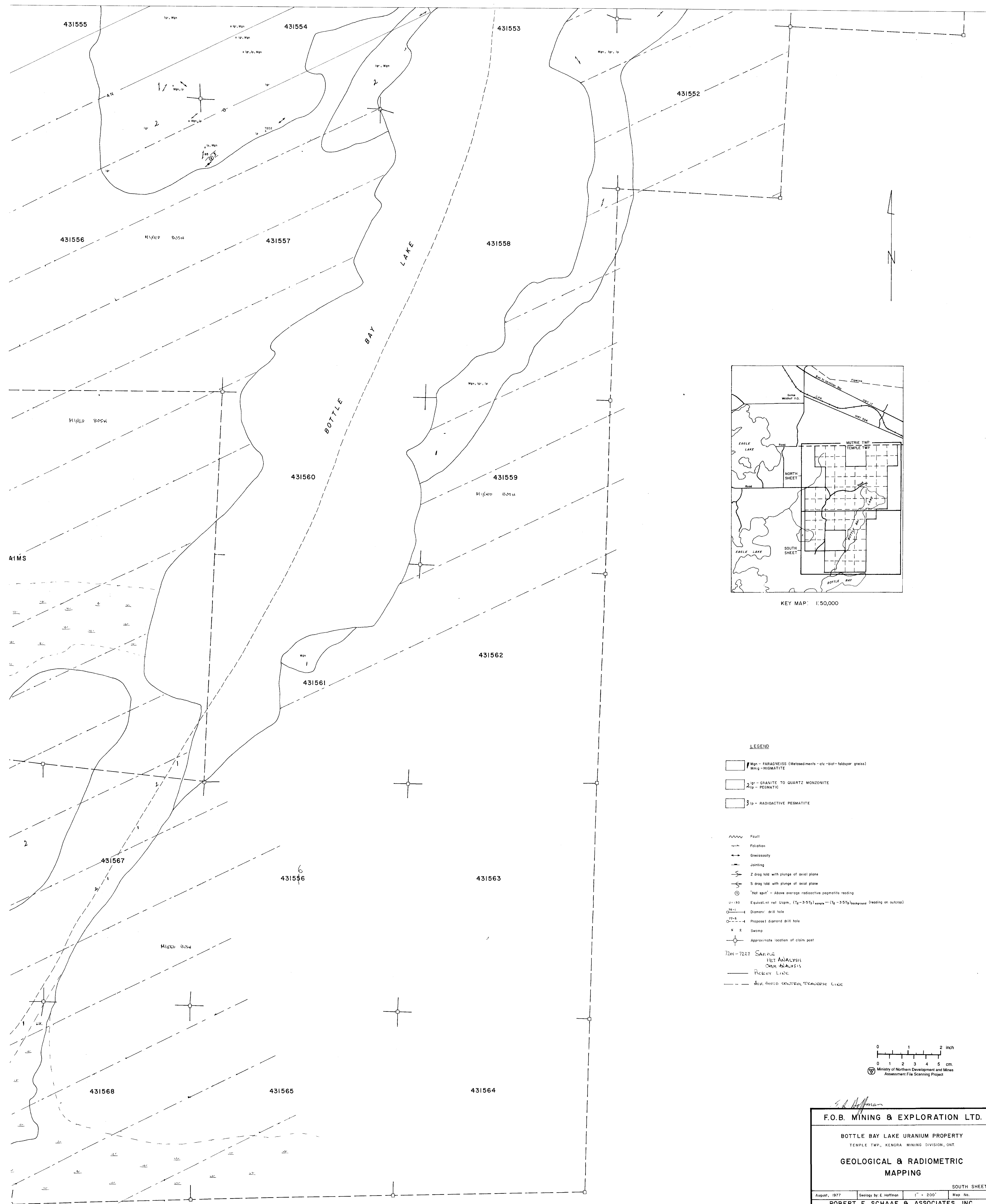
**F.O.B. MINING & EXPLORATION LTD.**

BOTTLE BAY LAKE URANIUM PROPERTY  
TEMPLE TWP., KENORA MINING DIVISION, ONT.

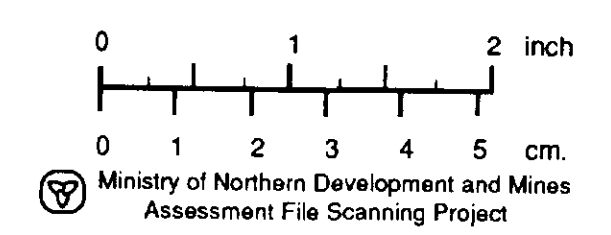
**GEOLOGICAL & RADIOMETRIC  
MAPPING**

NORTH SHEET

August, 1977	Geology by: E. Hoffman	1" = 200'	Map No.
ROBERT E. SCHAAF & ASSOCIATES INC. MISSISSAUGA, ONTARIO			



- LEGEND**
- Mon - FARANGNEISS (Metasediments - orz - biot - feldspar gneiss)
  - Mmig - MIGMATITE
  - 2gr - GRANITE TO QUARTZ MONZONITE
  - 4ip - PEGMATITE
  - 3ip - RADIOACTIVE PEGMATITE
  - Fault
  - Foliation
  - Gneissosity
  - Jointing
  - Z drag fold with plunge of axial plane
  - S drag fold with plunge of axial plane
  - 'Hot spot' - Above average radioactive pegmatite reading
  - Equivalent net Ucpm, (T<sub>2</sub>-3.5T<sub>3</sub>)<sub>avg</sub> - (T<sub>2</sub>-3.5T<sub>3</sub>)<sub>background</sub> (reading on outcrop)
  - Diamond drill hole
  - Proposed diamond drill hole
  - Swamp
  - Approximate location of claim post
  - 7201-7227 SAMPLE NET ANALYSIS CHEM ANALYSIS
  - PICKET LINE
  - - - AIR PHOTO CONTROL TRIANGULATION LINE



*E. Hoffman*

**F.O.B. MINING & EXPLORATION LTD.**

BOTTLE BAY LAKE URANIUM PROPERTY  
TEMPLE TWP., KENORA MINING DIVISION, ONT.

**GEOLOGICAL & RADIOMETRIC  
MAPPING**

SOUTH SHEET

August, 1977	Geology by: E. Hoffman	1" = 200'	Map No.
ROBERT E. SCHAAF & ASSOCIATES INC.			
MISSISSAUGA, ONTARIO			

22668,0