

A RADIOMETRIC 52F145W8161 2.2261 SURVEY ON PART OF BOTTLE BAY LAKE PROPERTY

TEMPLE TOWNSHIP KENCKA MINING DIDISION ONTARIO OF F.O.B. MINING AND EXPLORATION LIMITED

Introduction

During the period October 15 to October 26, 1976 a radiometric survey (McPhar TV 1 Scintillometer) was run over all or part of 18 claims as follows: K350713 to K350719 inclusive K431541 to K431543 inclusive

K431545 and K431546

K4**31**551

K431553 to K431555

K4**31**581

к431 586

The claims are held in the name of F.O.B. Mining and Exploration Limited of Thunder Bay, Ontario. The work was carried out by M. Kremko of Protoshield Exploration Services of Thunder Bay, Ontario.

Following the recommendations set forth in 2 separate reports and discussions on this property lines were cut over all or parts of the above claims at 400 foot spacing. The base line was centred on claim post 1 of claim K431554 and run at an azimuth of 335° . This orientation for the base line was to parallel a depression which was considered to be a fault depression since it was devoid of rock outcrop in an area of outcrop. As well, another linear expressed by swamp boundaries was found with air photographs. It exists east of the base line trending into the north end of Bottle Bay lake as its north shore line at an azimuth of 315° . Another fault may occupy the centre of Bottle Bay Lake. These postulated faults hold interest as possible sources of more concentrated uranium mineralization.

This survey as well as a radon gas survey were run to probe these fault areas and to cover the areas of known mineralization all within the above 18 claims. The radon

NEVEMBER, 1976

M KREMKO PROTOSHIELD EXPLORATION SERVICES

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gas survey is reported under separate cover by the contractor Robert H. Morse and measures radioactivity due to radon gas from soil gases.

Location and Access

F.O.B. Mining and Exploration Limited holds 69 contiguous, unpatented mining claims in Temple Township, Kenora Mining Division, Ontario within concessions 4 to 6 and lots 4 to 8. These are numbered as follows:

K350713 to	K350719 inclusive	K406286 to 406287 inclusive
K405718 &	к405719	K406310 to 406315 inclusive
K406109 &	к406110	K431537 to 431586 inclusive

The claim group is accessible by road 3 miles east of Vermilion Bay, Ontario on highway 17 and 4 miles south of highway 17 to the centre of the group.

Topography and Drainage

The topography of the daim group is typical of granitic areas of the shield in that the outcrops occur in either large masses of high terrain underlying several claims or sporadic areas within high ground. These all occur as islands within swamp areas. The entire area is covered by clay except in some of the outcrop areas where a sandy residual soil has been developed. The area is generally treed by poplar, jackpine and spruce. Alders occupy the edges of the swamp areas which themselves are grass and spruce covered. About 20% of the area has been logged over in recent years.

Results of the Survey

The results of the survey are shown on the enclosed map entitled "McPhar TV 1 Scintillometer Survey" at scale of 1 inch to 200 feet. The readings as plotted could not be contoured and have been coloured red for +10,000 cpm total radioactivity and blue for 5000 to 9,999 total radioactivity divided by a factor of 10 (for easier plotting) at a height of 2 feet above ground.

Mileage Surveyed

About 13.125 miles of picket line were cut with pickets at 100 foot intervals chained from the base line. Subsequently an additional 2.96 miles of line were ribboned for detail. Readings were taken at 50' intervals on all lines establishing 1751 stations. In addition where anomalous readings were encountered between stations readings were recorded for a total of 1917 samples.

Work Done To Date

In 1975 F.O.B. Mining and Exploration developed several rock trenches and stripping within the present map area These trenches were developed on outcrops prospected with a scintillometer and thus found to contain uranium.

On April 25, 1976 an AXT diamond drill hole, FOB 76-1 was collared at what is now XL - 40N, 8+50 W to drill in a location that promised several radioactive intersections. At this time the granitic areas were being mapped and prospected with a scintillometer.

All of this work is shown on the accompanying 200 scale plan. As well this work is mapped and reported on in two reports of May and June 1976.

General Geology

The geology of this property has been reported on previously in the above mentioned reports. The uranium mineralization is usually detected within red, pegmatitic, course grained granite at times accompanied by uranophane staining along fractures and associated with clusters of small apatite grains.

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Mineral Deposits

This property bears uraniferous pegmatitic granites. Prior to diamond drilling (FOB 76-1) only spots and small areas of radioactivity were encountered by scintillometers as is noted on the accompanying map which indicates a similar discontinuous pattern of local concentrations of radioactivity. DDH. FOB 76-1 encountered throughout its entire length with the exception of the sediment intersections over 0.25 lbs./ton $U_{3}O_{8}$ and one intersection of 3.4 lb. $U_{3}O_{8}$ /ton from 391.0 to 396.0 feet.

Conclusions and Recommendations

It must be realized that only outcrop or very shallow overburden areas are amenable to scintillometer prospecting. Therefore the results of this survey shown on the accompanying plan indicate outcrop readings if followed by an "oc". The remaining readings have little meaning except perhaps in general they indicate comparable overburden thickness. They do not negate the area covered as the overburden may be too thick for detection of any radioactivity.

The postulated fault areas did not prove anomalous from this survey since thay are swamp or water filled. The one exception, near the base line (from 0 to 24N), is lined by outcrop and proved in part to be anomalous along its flanks.

Two anomalous areas can be outlined in general and are as follows:

(1) generally encompassed by claims K350716 & K350717 and,

(2) within the outcrop areas of claims K350713 and K350714. Diamond drill hole F.O.B. 76-1 drilled in area (2) encountered over 0.25 lb. $U_{308}/$ ton throughout the hole. Recent communications with German interests indicate this to be a marginal economic grade. These values or better could be intersected in other localities throughout these anomalous areas.

It is recommended that these anomalous areas be diamond drilled. The amount and location of the drilling must await the results of the Radon gas survey to which this survey is complementary.

Respectfully submitted,

Myron B: Kremko

Mayron Hiento

Thunder Bay, Ontario November 4, 1976

(Field Geologist)/ PROTOSHIELD EXPLORATION SERVICES

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RUJECTS UNIT

RADON SURVEY

BOTTLE BAY LAKE PROPERTY

TEMPLE TOWNSHIP, ONTARIO

for

F.O.B. MINING AND EXPLORATION LTD.

by

R. H. MORSE & ASSOCIATES LTD.

NOVEMBER 22, 1976

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Robert H. Morse, Ph.D., P.Eng. 188 Willow Avenue, Toronto, Ont. 699-5760 (416)

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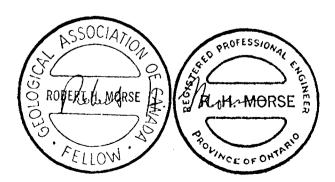
SUMMARY

A survey of radon (Rn²²²) in soil gas has been carried out over part of the Bottle Bay Lake property. Several high readings were observed, the highest being 833 cpm. North from the drill hole an anomalous area extends a minimum of 2000 feet (open to the north) with a width of about 800 feet. South of the swamp a second anomalous area extends about 2000 feet north from the "F" zone with a width of about 900 feet. A small but geologically important radon anomaly occurs on the base line near 10N. The latter constitutes a particularly attractive drill target because it is in one of the two major depressions of the area and may be due to fault-controlled mineralization. A drilling program is recommended.

Respectfully submitted,

November 22, 1976

Robert H. Morse, Ph.D., P.Eng.



INTRODUCTION

A survey of radon (Rn²²²) in soil gas has been carried out over part of the Bottle Bay Lake property of F.O.B. Mining and Exploration Ltd. This property is located in Temple Twp., about 6 miles southeast of Vermilion Bay, Ontario.

The following description of the geology and mineralization of the area is taken from reports by M. Kremko. The area is underlain by granitic rocks and arkosic metasediments. Uranium mineralization is associated with pegmatites intrusive into the above. Mineralization on the surface is spotty but a 501-foot drill hole assayed mainly in the $\frac{1}{4}$ lb U₃0₈/T range with one 5-foot intersection of 3.4 lb/T.

The radon survey was carried out to identify targets for followup drilling, particularly in low-lying, overburden-covered areas over faults. Gamma radiation, measured by the scintillometer, is damped out by a foot or so of barren rock or soil making the scintillometer mainly an outcrop tool. Radon gas is more penetrating in soil than gamma rays so that the two techniques are complementary. In the present state of the art detailed radon surveys are restricted to soils unsaturated with water; thus radon determinations were not possible over several large swamps on the property. Much of the area, however, is considered ideal for this type of survey.

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Soils of the area comprise three types, each of which occupies about a third of the total. The extent of each type can be seen by reference to Fig. 1 or 2. Podzolic soils are developed in the "outcrop areas". Swamps, where radon determinations were generally not possible, are underlain by saturated organic soils. The remainder of the area is underlain by clay. Poplar, jackpine and spruce are the main tree types.

FIELD METHODS

Radon determinations were made in the field using two different model RD-200 portable radon detectors manufactured by E.D.A. Electronics Ltd. (Serial numbers 1106 and 1111) and one model CPD-284A, a prototype of the above, manufactured by Atomic Energy of Canada Ltd.

Holes were made 12 inches deep in the soil with $1\frac{1}{4}$ " soil sampling augers manufactured by Oakfield apparatus Co. Soil gas was transferred immediately to the radon detector by inserting a $\frac{1}{4}$ " tube into the hole and pumping with a rubber bulb pump. Inside the instrument the gas sample is placed inside a chamber whose inside walls are coated with silver-activated zinc sulfide and viewed with a photomultiplier tube. Each time an alpha particle from a decaying radon atom hits the zinc sulfide a pulse of light is emitted which is detected by the photomultiplier tube and recorded as a count on a digital readout.

Instrument background was monitored for one minute before sampling and the samples were counted for three 1-minute intervals each. Thoron (Rn²²⁰ from the thorium decay series) is charactarized by a decreasing count rate during the first three minutes due to its short half-life, 55 seconds. Radon-222, from the uranium decay series, on the other hand, exhibits a rising count rate owing to build-up of daughter products. The amount of each isotope present can therefore be determined by analysing the change in count rate over the first three minutes. Cpm due to radon-222 is equal to

 $.87C_3 + .32C_2 - .34C_1$

Page 5

where C_1 , C_2 and C_3 are the net counts (instrument background removed) in each of the first three minutes respectively. All the readings obtained in the field were reduced to radon-222 content by means of this formula. The calculations were done with a Hewlett Packard HP-25 programmable calculator. Results were plotted in Fig. 1.

The radon survey commenced Oct. 14 and the field work was completed Oct. 26. The work was carried out by D. Crawford, the writer and M. Kremko, and supervised by the writer.

Most of the readings were at 50- or 100- foot intervals along lines 200 or 400 feet apart but a few were more closely spaced. Results with this technique are available immediately and sample spacings were adjusted by the field operator to give more detail in the anomalous areas. A total of 1148 readings were taken over about 16 miles of line.

ROLLING MEAN ANALYSIS

Owing to the erractic nature of the mineralization on this property and to the sampling error inherent in the radon technique, the results of the radon survey (Fig. 1) are erractic and not contourable. In order to smooth out the data to make contouring possible and provide a more general indication of mineralization trends on the property, a five-point rolling mean map was prepared (Fig. 2). The centre sample was weighted by 0.4, the two nearest by 0.2 and the two next nearest by 0.1. This weighted average was then plotted for the centre sample point. The calculation was carried out on the HP-25 programmable calculator.

RESULTS AND INTERPRETATION

The results of the radon survey are presented in Fig. 1. Several high values are noted, the highest being 833 cpm 25 feet east of the drill collar of F.O.B. 76-1. By way of comparison, in the Bancroft Camp radon readings over 100 cpm are generally considered to be worthy of further investigation.

Two anomalous areas were identified, separated by a swamp where radon readings were not possible. These general patterns are well illustrated on the rolling mean map (Fig. 2). Most of the rolling mean values within these anomalous areas are over 20 cpm and several are over 100 cpm.

North from the drill hole an anomalous area extends a minimum of 2000 feet (open to the north) with a width of about 800 feet. Besides the 833 cpm reading mentioned above, this anomalous area contains a reading of 539 cpm, one of 333 cpm and several others over 100 cpm.

South of the swamp a second anomalous area extends about 2000 feet north from the "F" zone with a width of about 900 feet. It includes a reading of 306 cpm and several others over 100 cpm. This anomalous area can be correlated with a weaker radon anomaly on strike at L44N-19E giving a total possible length of 4500 feet or more. The highest radon reading observed on this extension is 68 cpm and the highest rolling mean value is 37 cpm. A good correlation exists between the radon anomalous areas, represented by the rolling-mean contours, and the general areas of high scintillometer readings. In detail, however, this correlation is poor with several radioactive zones in areas of near-zero radon values. This is not surprising in view of the nature of the two types of survey involved. The scintillometer works best in areas of very thin or no soil and it was in these areas that known radioactive zones were found. The radon counter, on the other hand, does not work well in soil less than a foot thick and so the radon survey missed some of the zones which the scintillometer found. Adapted as they are to the two different environments the two techniques, radon and scintillometry, complement each other.

The radon readings closest to the "F" zone are not anomalous but a value of 100 cpm occurs 100 feet to the northwest, and additional high values 600 to 1100 feet to the southeast suggest an extension in this direction (see Fig. 2).

The radon anomaly with perhaps the most commercial potential lies in a depression near the base line at L10N. It is over 200 feet long and includes a radon value of 162 cpm and another of 93 cpm. It lies in a steep long depression, probably a fault, a likely place geologically for high grade uranium mineralization. Scattered areas of high radioactivity in outcrop occur along the flanks of this depression (see report by M. Kremko). Also particularly high radon readings were observed along the east flank from L16N to L22N. Low radon values elsewhere in the depression do not rule out the possibility its being occupied by a uranium

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orebody. The overburden here is thicker than elsewhere and could easily prevent the upward migration of recognizable amounts of radon. On the other hand the radon anomaly could conceivably be due to movement in solution of radium (the parent of radon) from the known occurrences on the high ground into this valley and deposition in the form of a transported anomaly.

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RECOMMENDATIONS

Any recommendations for follow-up on this property must take account of geology, scintillometry and drill results, as well as the radon survey. As pointed out in Kremko's report the mineralization exposed on surface is spotty, and the erratic nature of the radon values substantiates this. This spottiness is not completely due to incomplete rock exposure because in many of the radioactive areas exposure is good and the mineralized zones can be seen to constitute only a small fraction of the exposed rock. In view of this the assay results from the drill core, which indicated substantial footages of about $\frac{1}{2}$ lb/T and a 5-foot intersection of 3.4 lb/T, are surprising. The drill core was examined by the writer with a McPhar TV-1 spectrometer and no radioactivity was detected. This is not consistent with the assay results but more what one would expect from the surface exposure.

The radon survey tends to confirm the picture of spotty but widespread mineralization indicated by the scintillometer. The hypothesis that the two anomalous areas outlined by the rolling mean contours represent large low-grade uranium orebodies must assume that the assay results as reported are in fact valid. This should be established before any substantial follow-up of this hypothesis is undertaken. If the assays prove to be valid then each of these anomalous areas should be drilled as indicated on Figs. 1 and 2.

The smaller radon anomaly in the fault at BL-10N should be drilled regardless of the above. The proposed drill hole is indicated on Figs. 1 and 2.

Ministry of Nature GEOPHYSICAL – GEOLOGIC TECHNICAL DATA STATEMEN TO BE ATTACHED AS AN APPENDIX TO TECHNICA FACTS SHOWN HERE NEED NOT BE REPEATED T TECHNICAL REPORT MUST CONTAIN INTERPRETATION,	DEC 2 7 1976 AL REPORT MINER OF LANGES STREAMS
Type of Survey(s) <u>RID 10 METRIC</u> Township or Area <u>TEMPLE</u> <u>TOWMSHIP</u> Claim Holder(s) <u>FO.B. Minning Exploration Colleg</u> <u>P.O. Kox 2717 StaP Thurder Bay On7</u>	MINING CLAIMS TRAVERSED List numerically
Survey Company Protostice W Exploration Services Author of Report Myrin Kreako Address of Author P.D. Box 1237 Hunder Bay Ontario Covering Dates of Survey Oct 7 to Nov A 1976	$K = \frac{3.50.213}{\text{(prefix)}}$ $K = \frac{3.50.21.3}{\text{(number)}}$ $K = \frac{3.50.71.57}{\text{FFCEJVED}}$ $K = \frac{3.50.71.6}{\text{FFCEJVED}}$ $K = \frac{3.50.71.6}{\text{FFCEJVED}}$ $K = \frac{3.50.71.6}{\text{FFCEJVED}}$
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OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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Type of electrode	•				

INDUCED POLARIZATION RESISTIVITY

SELF POTENTIAL

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Survey Method	
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Additional information (for understan	nding results)
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AIRBORNE SURVEYS	
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Accuracy	(specify for each type of survey)
Sensor altitude	
	nethod
Aircraft altitude	Line Spacing
	Over claims only

GEOCHEMICAL SURVEY -- PROCEDURE RECORD

Numbers of claims from which samples taken_____

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Total Number of Samples					
Type of Sample(Nature of Material)					
	D. D. m				
Average Sample Weight	h.h.n.				
Method of Collection	Cu, Pb, Zn, Ni, Co, Ag,	Mo, As,-(circle)			
Soil Horizon Sampled	Others				
Horizon Development	Field Analysis (tcsts)			
Sample Depth	Extraction Method				
Terrain	Analytical Method				
	Reagents Used				
Drainage Development	Field Laboratory Analysis				
Estimated Range of Overburden Thickness	No. (tests)				
	Extraction Method				
	Analytical Method				
	Reagents Used				
SAMPLE PREPARATION	Commercial Laboratory (tests)			
(Includes drying, screening, crushing, ashing)	Name of Laboratory				
Mesh size of fraction used for analysis	Extraction Method				
General	General				
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Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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. NO LARDS SCONCEN

File 2.2261.

MEC 2 1 (973

Type of Survey(s) Radon	
Township or Area Temple Twp.	MINING CLAIMS TRAVERSED
Claim Holder(s) F.O.B. Mining and Exploration Ltd. Box 2717 Stn P, Thunder Bay	List numerically
Survey Company Robert H. Morse	K 350713 (prefix) (number)
Author of Report Robert H. Morse	K 350714
Address of Author 188 Willow Ave., Toronto	K 350715
Covering Dates of Survey Oct. 7 to Nov. 23 (linecutting to office) Total Miles of Line Cut 16.1	K 350716
Total Miles of Line Cut 16.1	к 350717
SPECIAL PROVISIONS DAYS	К 350718
<u>CREDITS REQUESTED</u> Geophysical per claim	K 350719
ENTER 40 days (includes ————————————————————————————————————	K 431541 PECEN
line cutting) for firstMagnetometer surveyRadiometric	K 431542
survey. Radiometric ENTER 20 days for each Other	11. [1.2
additional survey using Geological	K 431543 PROJECTS UNIT
same grid. Geochemical 20	K 431545
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	K 431546 // ₁₂
MagnetometerElectromagnetic Radiometric	K 431551 1/4
DATE: Mor 23 SIGNATURE: Robert H Thom-	к 431553 ³ /4
Author of Report or Agent	K 431554
	K 431555
Res. Geol. Qualifications 2. 1260	K431581
Previous SurveysFile No.TypeDateClaim Holder	K 431586
	TOTAL CLAIMS $\frac{18}{8}$
	TOTAL CLAIMS70

GEOPHYSICAL TECHNICAL DATA

(GROUND SURVEYS - If more than one survey, sp	occify data for each typ	oc of survey	
N	lumber of Stations	Number o	f Readings	
Station interval		Line spaci	ng	
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C	ontour interval			
С	Instrument		*	
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GN	Diurnal correction method			
MA	Base Station check-in interval (hours)			
	Base Station location and value			
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IC	Instrument			
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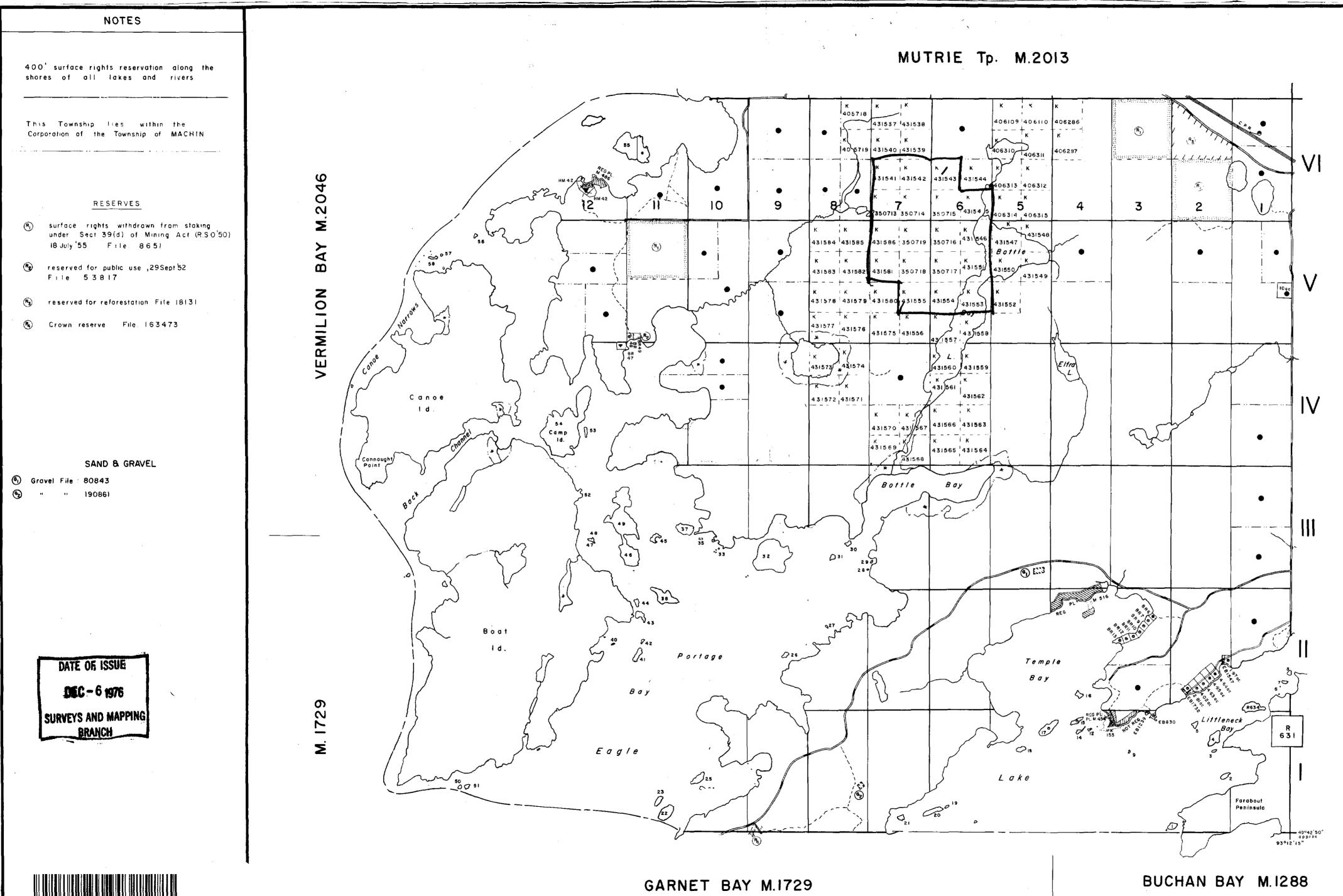
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SELF POTENTIAL	• • • · · · · · · · · · · · · · · · · ·
Instrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	£
Overburden	
	(type, depth — include outcrop map)
OTHERS (SEISMIC, DRILL WELL LO	GGING ETC.)
Type of survey	
Instrument	
Accuracy	
Parameters measured	
Additional information (for understand	ing results)
	
AIRBORNE SURVEYS	
Type of survey(s)	
	(specify for each type of survey)
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Aircraft altitude	Line Spacing
	Over claims only



Numbers of claims from which samples taken <u>K350713-19;K431541,42,43,45,46;</u> K431551, 53,54,55,81,86 i.e. same as listed on front page.

Total Number of Samples1148	ANALYTICAL METHODS
Type of Samplesoil gas	Values expressed in: per cent \Box
(Nature of Material)	$cpm Rn^{222} p. p. m. \square$
Average Sample Weight	$11 D D_{-}$
Method of Collection make hole with 12" auger	r Cu Bh. Za Ni Co Az Mo Az (circle)
remove gas with rubber bulb pump	Cu, Pb, Zn, Ni, Co Radon (Rn ²²²)
Soil Horizon Sampled <u>B</u> and C	Others
Horizon Development none to fair	Field Analysis (1148tests)
Sample Depth12"	Extraction Method
Terrain gently rolling granite hills,	Analytical Method Alpha scintillometry (using E.D.A. RD-200) Reagents Used none
clay plains and swamp.	Reagents UsedNONE
Drainage Developmentpoor	Field Laboratory Analysis
Estimated Range of Overburden Thickness	No. (tests)
0 to 30'	Extraction Method
	Analytical Method
	Reagents Used
	none
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)	Commercial Laboratory (tests)
Mesh size of fraction used for analysis	Name of Laboratory
none	Extraction Method
	Analytical Method
	Reagents Used
General	General
	<u> </u>



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 TYPE OF DOCUMENT 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 ORDER-IN-COUNCIL RESERVATION

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Тр.

AUBREY

CANCELLED SAND & GRAVEL SCALE: 1 INCH - 40 CHAINS FEET METRES 0 200 400 600 ACRES 40 TOWNSHIP DISTRICT MINING DIVISION

Ø Ontario Date 9.75 Whitney Block Queen's Park, Toronto

