Duplicate file #52F14SW0009

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GEOLOGICAL & RADIOMETRIC SURVEY

PROJECTS UNIT,

BOTTLE BAY LAKE PROPERTY TEMPLE TOWNSHIP. KENORA MINING DIVISION ONTARIO

F.O.B. MINING & EXPLORATION LIMITED

MAY 1976

Ъу

M. KREMKO

PROTOSHIELD EXPLORATION SERVICES

Summary and Recomendations

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F. O. B. Mining and Exploration Limited holds 69 unpatented mining claims within concessions 4, 5, and 6, lots 4 to 8 inclusive, Temple Township, Kenora Mining Division, Ontario. The claims are accessible by gravel road 3 miles east of Vermilion Bay off Highway 17 and 4 miles south.

A pace and compass geological and radiometric survey was run concurrently aver about 40 of these claims in search of uranium mineralization. Traverses were run on claim lines and where outcrop was encountered, at various distances between claim lines or enough to establish coverage of the outcrops.

The host rock, an Algoman granite of white to pink colour intruded by red course grained biotite, hornblende pegmatite was encountered throughout the area surveyed.

Uraniferous readings on a McPhar TV 1 scintillometer were at consistent background readings of 10cpm except in areas of known mineralization (up to 2100 cpm U308) and four new localities. These anomalous results are not widespread but occur as local segregations within the pegmatites usually accompanied by yellow uranophane staining and green apatite crystals. It was hoped that this work would locate and possibly extend uraniferous mineralization to the point where surface diamond drilling would be justified.

Since the results of this survey were relatively negative it is recommended that no further work be carried out on this property with the exception of a radon gas survey within the claims where the outcrops carry some uranium. This survey should cover the areas of overburden within these claims (K350713 to K350719, K431546, K431551) on a regular 200 foot spaced grid. As well, a more sensitive radiometric survey could be carried out over the outcrop areas along the same lines. It is also recommended that some of the claims be allowed to expire so that those claims that are most important may be held by the work carried out to date. The claims that should be kept in good standing are in one contiguous block of 31 claims as follows; K 350713 -K 350719 inclusive K431541 - K 431546 "

K 431551 K 431553 - K 431557 inclusive K 431575 - K431586 "

Respectfully submitted,

Myron Ille

Myron B. Kremko (Field Geologist) PROTOSHIELD EXPLORATION SERVICES

May 6, 1976.

GEOLOGICAL & RADIOMETRIC SURVEY BOTTLE BAY LAKE PROPERTY TEMPLE TOWNSHIP F.O.B. MINING AND EXPLORATION LI, ITED

Introduction

During the period April 19 to May 1, 1976 a geological and radiometric survey (McPhar TV 1 Scintillometer) was run over all or part of 40 claims as follows:

K350713 - K350719 inc. K405718 & K405719 K431537 - K431543 inc. K431546 K431551 -K431554 - K431557 inc. K431569 - K431586 "

The claims are held in the name of F. O. B. Mining and Exploration Limited

The claims were traversed along claim lines in search of outcrop. The traverses were terminated along these claim lines if it was reasonably certain that no further outcrop was located along these lines or the property in the direction of the traverse. Where extensive outcrop was located along the claim lines, traverses were made in a sweeping effect between the claim lines so that effective coverage would be obtained. In effect the claims were prospected. The remaining 29 claims were not traversed either because they were underlain by sedimentary rocks or were covered by overburdem.

Location and Access

F. O. B. Mining and Exploration Limited holds 69 contiguous mining claims in Temple Township, Kenora Mining Division within concessions 4-6 and lots 4-8. These are numbered as follows: K350713 - 350719 inc. K406310 - 406315 inc K405718 - 405719 " K431537 - 431586 " K406109 - 406110 ¥ K406286 - 406287 " The claim group is accessible by road 7 miles from Vermilion Bay, Ontario. The group is about 4 miles by gravel road to its centre, south and east of Highway 17.

Personnel Employed on the Survey

F. O. B. Mining and Exploration Limited contracted Protoshield Exploration Services of Thunder Bay, Ontario to carry out this work. M. Kremko was soley responsible for the field and office work.

Topography and Drainage

The topography of the claim 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 spoadic areas within high ground. These all occur as islands within swamp areas. The entire area is covered by clay except in the larger outcrop areas and 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 covered has been logged over in recent years.

Results of the Survey

The results of the survey are shown on the accompanying map at a scale of 1 inch to 400 feet.

Previous Work

No previous work has been recorded. The claims appear to have been staked several times. Trenching of outcrops where uranium was detected was carried out on claims K350713, K350714, K350716, K350717 and K350718 by F. O. B. Mining and Exploration Limited. These have been shown on the map as zones "F", "O", "B", "N", "I" & "G". Diamond drilling has commenced on claim K350714 on zone "N" and will be reported on separately. The area is included in a map and report by W. W. Moorehouse, Volume XLVIII, part 4, Ontario Department of Mines Annual Report, 1939, Map No. 48d.

General Geology

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The consolidated rocks of the area consist of a massive grey to pink biotite, hornblende granite of Algoman This granite intruded arkosic sediments of Timiskaming age. The sediment occurs within the granite as unmappable age. lenses and blocks, giving the only strike and dip measurements available within the area mapped. According to Moorehouse the sediments surround the granite to the south east and west. The arkose is fairly siliceous and well baked at its contacts and is almost gneissic in character carrying biotite and hornblende and is medium to course grained. The perimeter of the granite was not observed, but near the supposed contact as mapped by Moorehouse the amount of sediment increases to whole outcrop proportions.

These rocks in turn have been intruded by masses and dikes of a red, pegmatitic, course grained granite. This unit consists of red potash feldspar, biotite and quartz up to 3 inches in diameter and is concentrated in the central part of the area covered. Wherever uranium mineralization has been uncovered it is always within these pegmatitic granites and is usually accompanied by yellow uraophane staining along fractures and clusters of fine to medium grained apatile crystals.

Table of Formations

<u>Cenozoic</u>

Recent and Pleistocene

Swamp and stream deposits, sand and clay. -----Great Unconformity------Precambrian

Proterozoic

<u>Algoman</u> - Pegmatitic granite -----Intrusive Contact------- Biotite, hornblende granite -----Intrusive Contact------<u>Timiskaming</u> - Arkosic sediment

Economic Geology

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This property bears uraniferous pegmatitic granites as located by scintillometer prospecting and subsequent trenching. These localities bear quantities of up to 1 lb. per ton of U_3O_8 as read on the scintillometer (1 lb/ ton $U_3O_8 = 2500$ cpm) but probably up to 4 lb / ton (assaying). These are economic values. But, the greatest extent of any of these showings appears to be about 40 feet with a 2 foot width. This amount of mineralization cannot reasonably be expected at greater depths than 40 feet. As such the present showings cannot be expected to "blossum into ore bodies". Diamond drilling on these zones would be futile as the mineralization cannot be reasonably expected at depth.

Radiometric Survey and Results

The radiometric survey encountered only 4 additional localities of above background radiation due to Uranium. None of these localities was exceptional in amounts of $U_{3}O_{8}$ and in extent of mineralization covering only about 10 square feet.

The mileage covered in this survey cannot be given as the measurements were on a random sampling of favouable rock accompanying the geological survey. Only positive results were recorded and located. This work was carried out in this way to give the best results with a minimum of work and maximum coverage.

The survey failed to locate any commercial quantities of uranium.

Respectfully submitted,

Billipon Palas

Myron B. Kremko (Field Geologist) PROTOSHIELD EXPLORATION SERVICES

May 6, 1976



OFFICE USE ONLY

Ministry of Natural Resources

GEOPHYSICAL – GEO TECHNICAL

TO BE ATTACHED AS AN A



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File 2.2109.

FACTS SHOWN HERE NEE. TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC. ROJECTS UNIT.

Type of Survey(s) <u>Radiometric</u> and Geological			
Township or Area Temple Township	MINING CLAIMS TRAVERSED		
Claim Holder(s) F. O. B. Mining and Exploration Ltd.	List numerically		
p. o. Box 2717, Thunder Bay P, Ont			
Survey Company Protoshield Exploration Services	K350713 K431556 (prefix) (number)		
Author of Report Myron Kremko	Varanth Vhatssa		
Address of Author P. O. Box 1237, Thunder Bay F, Ont.	к350715 к431569		
Covering Dates of Survey April 19 to May 7, 1976 (linecutting to office)	К350715 К431570		
Total Miles of Line Cut_Nil			
	к350717 к431571		
SPECIAL PROVISIONS DAYS	к350718 К431572		
<u>CREDITS REQUESTED</u> Geophysical per claim			
ENTER 40 days (includesElectromagnetic	<u> 7,7,16,47</u>		
ENTER 40 days (includes line cutting) for first —Magnetometer	K405718 K431574		
survey. –Radiometric 20 5	к405719 к431575		
ENTER 20 days for each	к431537 к431576 s		
additional survey using Geological 20/m			
same grid. Geochemical	<u>K431538</u> <u>K431577</u>		
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	K431539 K431578		
Magnetometer Electromagnetic Radiometric (enter days per claim)	к431540 к431579		
DATE: May 7, 1976 SIGNATURE: My Kill	<u>K431541 K431580</u>		
	<u>к431542</u> <u>к431581</u>		
	K431543 K431582		
Res. GeolQualifications 63,3467.			
Previous Surveys	<u>K431546</u> <u>K431583</u>		
File No. Type Date Claim Holder	<u>к431551</u> <u>к431584</u>		
no previous survey	<u>к431554 к431585</u>		
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	TOTAL CLAIMS40		

GEOPHYSICAL TECHNICAL DATA

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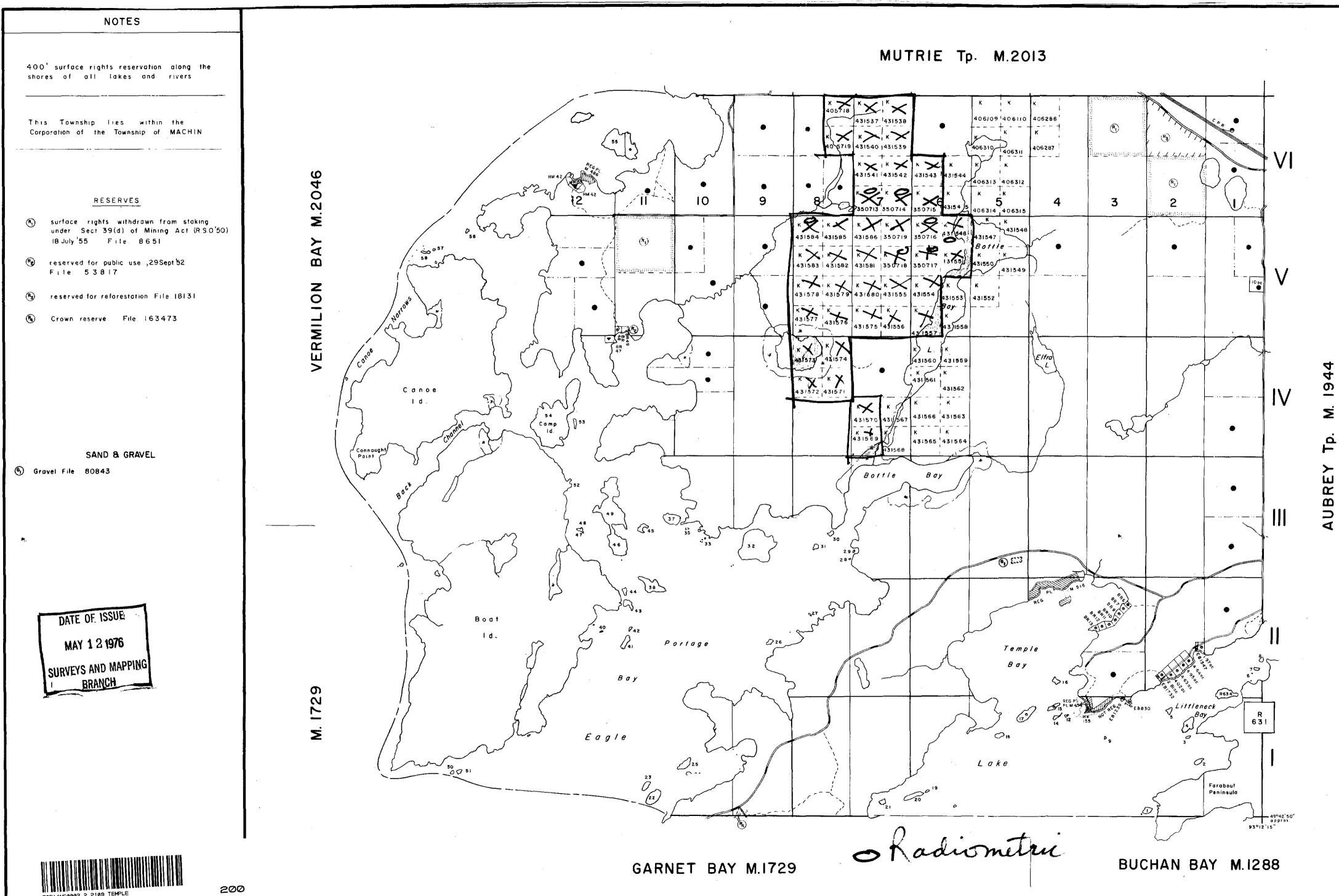
SELF POTENTIAL	
Instrument	Range
Survey Method	
Corrections made	na na sana na s An sana na sana n
RADIOMETRIC	and the second
Instrument McPhar TV 1 scintillometer seri	al no. 175-10
Values measured counts per minute U208	
Energy windows (levels) (3) at 2.5, 1.6 & 0.2 MEV	
Height of instrumentat bedrock (anomalous) & 3'	
Size of detector <u>Sodium iodide crystal 1" diamet</u>	5
Overburden clay, sand and water - depth ur	
(type, depth - include outcr	op map) in the second s
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<u>AIRBORNE SURVEYS</u>	
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Accuracy	
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Aircraft altitude	Line Spacing
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GEOCHEMICAL SURVEY - PROCEDURE RECORD

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Numbers of claims from which samples taken_____

Total Number of Samples	ANALYTICAL METHODS				
Type of Sample(Nature of Material)	Values expressed in:				
(Nature of Material) Average Sample Weight.		per cent p. p. m.			
Method of Collection		թ.թ			
	Cu, Pb, Zn, Ni, C	o, Ag, Mo,	As,-(circle)		
Soil Horizon Sampled	Others				
Horizon Development	Field Analysis (<u> </u>	tests)		
Sample Depth					
Terrain	Analytical Method				
	Reagents Used				
Drainage Development	Field Laboratory Analysis				
Estimated Range of Overburden Thickness	No. (tests		
SAMPLE PREPARATION	Extraction Method				
	Analytical Method				
	Reagents Used				
	Commercial Laboratory	(tests		
(Includes drying, screening, crushing, ashing)	Name of Laboratory				
Mesh size of fraction used for analysis	Extraction Method				
	Analytical Method				
	Reagents Used				
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General	General				
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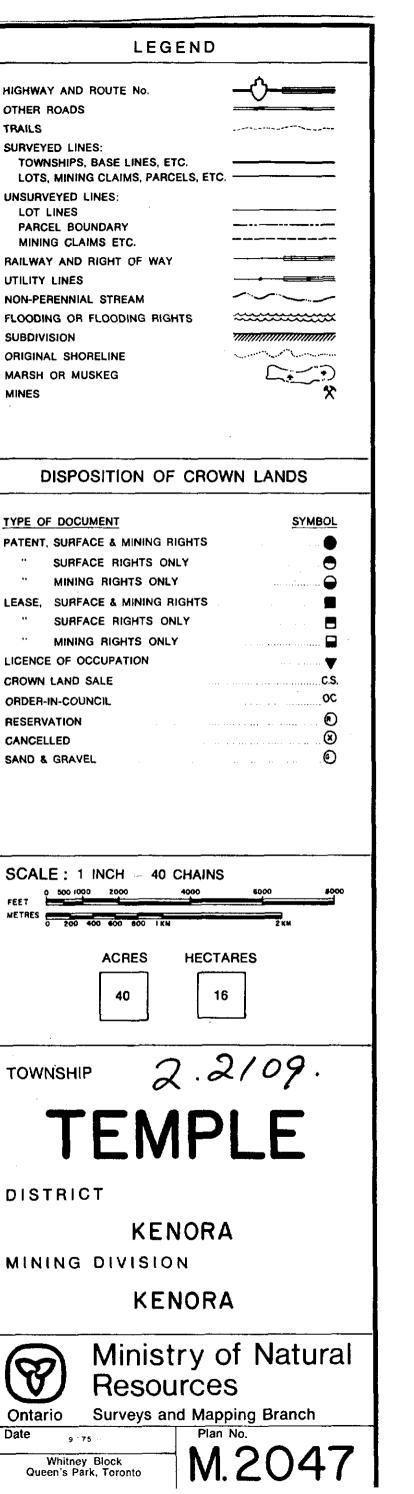


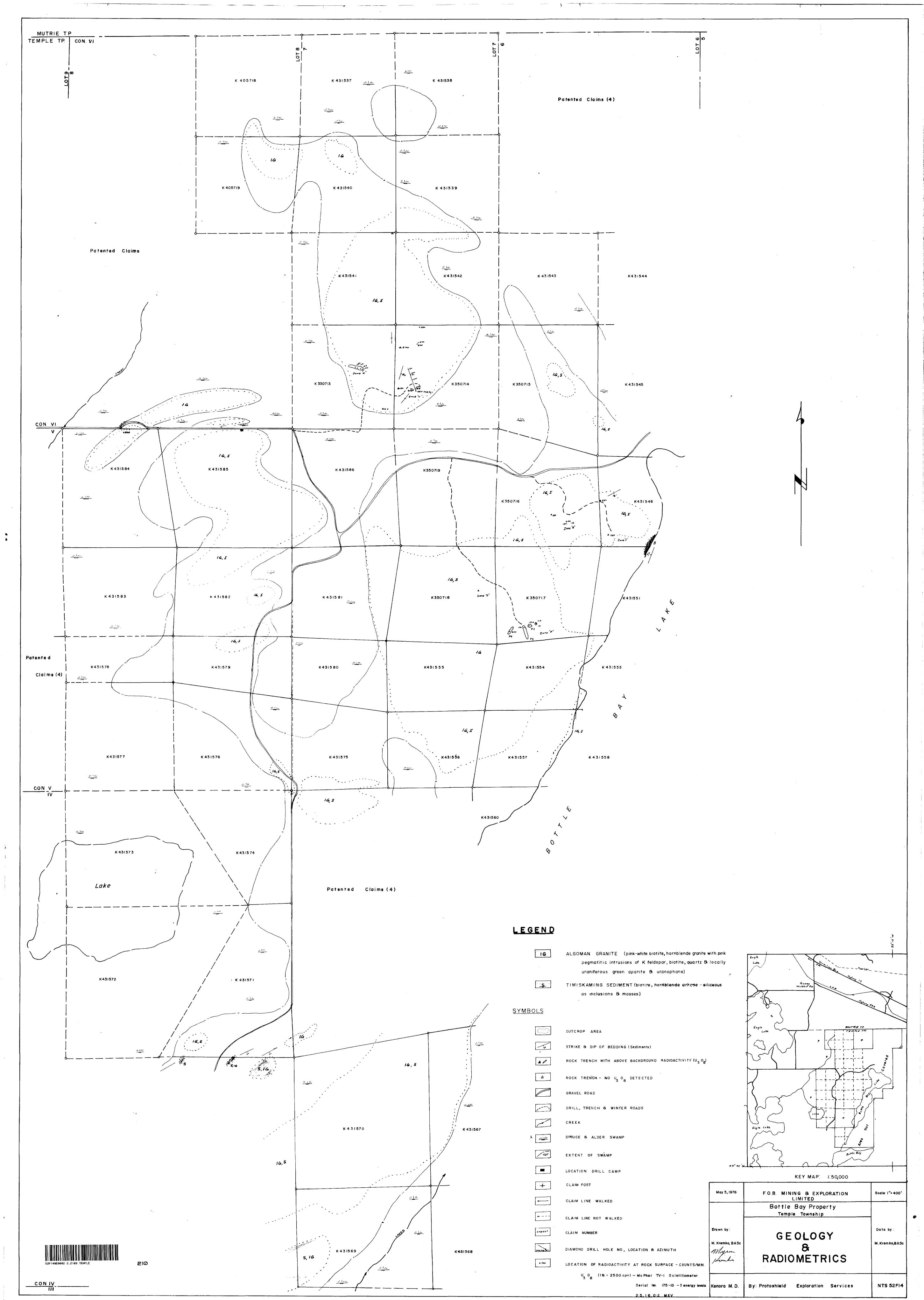
HIGHWAY AND ROUTE No. OTHER ROADS TRAILS SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC. UNSURVEYED LINES: LOT LINES PARCEL BOUNDARY MINING CLAIMS ETC. RAILWAY AND RIGHT OF WAY UTILITY LINES NON-PERENNIAL STREAM FLOODING OR FLOODING RIGHTS SUBDIVISION ORIGINAL SHORELINE MARSH OR MUSKEG MINES TYPE OF DOCUMENT PATENT, SURFACE & MINING RIGHTS LEASE, SURFACE & MINING RIGHTS LICENCE OF OCCUPATION CROWN LAND SALE ORDER-IN-COUNCIL RESERVATION CANCELLED SAND & GRAVEL FEET METRES 0 200 400 600 1 TOWNSHIP DISTRICT MINING DIVISION Ø

Ontario

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Date





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