



31E01SE0201 2.2997 CARDIFF

2.2997

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JUN 18 1979

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REPORT ON THE RADIOMETRIC SURVEY OF LOTS 30, 31 & 32

CONCESSION 17 OF MONMOUTH TOWNSHIP, HALIBURTON COUNTY, ONTARIO

FOR:

LACANA MINING CORPORATION

TORONTO, ONTARIO

JUNE 5, 1979

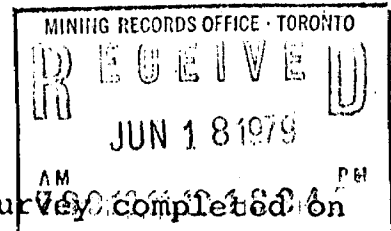
MICHAEL H. WILSON

GEOLOGIST

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MINING LANDS SECTION



INTRODUCTION

This report covers the radiometric survey completed on claims

E0: 520721-724

E0: 521243-245

during the field season of May 15 - 29, 1979, by the author and assistant for Lacana Mining Corporation, Toronto, Ontario, holders of the claims.

LOCATION & ACCESS

The claim block consists of 7 unpatented claims in the northeast corner of Monmouth Township, easily accessible by gravel road, one kilometer west of Wilberforce, Ontario.

PREVIOUS WORK SUMMARY

Initial surveys covering the present claim block by Homer Yellowknife Mines, 1954, (ODM File #36) consisted of geology, trenching-stripping and diamond drilling (17 holes: total footage - 2810').

A small adit was later developed in 1955 for bulk sample purposes by Desmont Mining Corporation (ODM Annual Report, Volume LXV, Part 6, 1956).

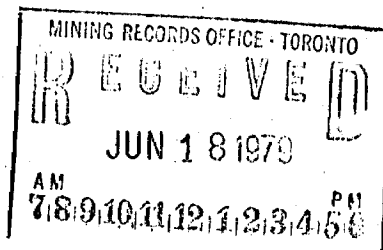
In 1965, Moly Corporation of Canada optioned the southern two-thirds of Lot 31, 32, Conc. 17 from New Far North Exploration and completed minor trenching and 13 diamond drill holes (total footage - 2713' - ODM File #63 6.7).

Their program was orientated exclusively to molybdenite mineralization in a radioactive diopsidic skarn, and the property

M.H.W.

subsequently covered by geochemical and magnetometer surveys.

Geochemical assays (26) of the various trenches were completed in 1976 by Highland Mercury Mines Ltd. over the Southern two-thirds of Lot 31, Conc. 17 testing the extent of uranium and molybdenum mineralization (ODM Files).



GEOLOGY

Outcrop exposures are largely limited to the ridges trending north to north-northwest and consist of rusty quartzo-feldspathic paragneiss overlying a thick calc-silicate marble sequence containing uranothorite-uranite mineralization within diopside-tremolite skarn, most commonly found near zones of pegmatite (granitic) intrusive.

RESULTS & CONCLUSIONS OF SURVEY

Radioactivity within the claims is mainly composed of uranothorite mineralization within the diopsidic skarn, the zones of which are traceable over 800 meters along strike.

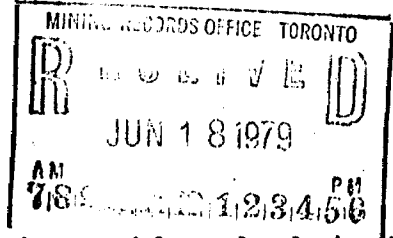
Trace uraninite mineralization is found within crystalline marble to the west.

Previous trenching has exposed the major radioactive zones and the results of this survey conclude the credibility and extent of previous work. Northern and eastern portions of the claims have limited coverage due to overburden cover and cottage construction.

SURVEY DETAILS

Radioactivity measurements, using a McPhar TV-1A scintillometer, were conducted on a compassed grid composed of N-S lines spaced 100 meters apart, measured and flagged using topofil

M.H.W.



every 50 meters.

Grid control was obtained using a blazed claim line and a previously cut survey line (azimuth 340°) which transects the eastern portion of the claims.

Background readings were established daily on a barren marble outcrop alongside the access road 1 kilometer south of the property. Readings varied between 2,000 - 2,500 cpm (T1).

Stations were established every 50 meters along the grid pattern and 200 stations were recorded covering 10 line kilometers within the claim boundaries.

At each station, 3 levels of gamma radioactivity were recorded as follows:

- T1 : K & U & Th >1,000 counts per minute
- T2 : U & Th >50 cpm
- T3 : Th >50 cpm

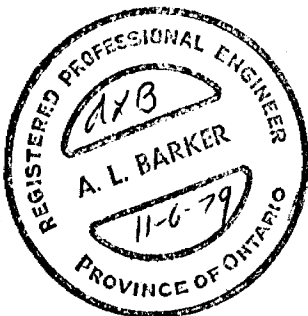
I, Michael H. Wilson

- am a graduate geologist from the University of Western Ontario
- am employed by Lacana Mining Corporation of Toronto, Ontario for the summer field season of 1979
- will complete my Masters of Mining Engineering at McGill University in spring 1980
- have no specific interest in the property examined

Respectfully Submitted,

Michael H. Wilson

Michael H. Wilson
June 6, 1979





GEOP.



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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) Radiometric
Township or Area Monmouth Township
Claim Holder(s) Lacana Mining Corporation

Survey Company Lacana Mining Corporation
Author of Report Michael H. Wilson
Address of Author 61 Penetang Street, Barrie, Ontario
Covering Dates of Survey May 15 - June 6, 1979
(linecutting to office)
Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED	
List numerically	
(prefix)	(number)
EO	521244 ^{3/4 N.C}
EO	521243 ^{3/4}
EO	521245 ^{1/2}
EO	520721 ✓
EO	520722 ^{1/4}
EO	520723 ✓
EO	520724 ✓

Area of claims N.C.
2 1/4
2087: 100 - (200) = 15
~~15 days~~ 15 days

TOTAL CLAIMS 7

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	Geophysical	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	--Electromagnetic _____	
	--Magnetometer _____	
ENTER 20 days for each additional survey using same grid.	--Radiometric <u>20</u>	
	--Other _____	
	Geological _____	
	Geochemical _____	

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

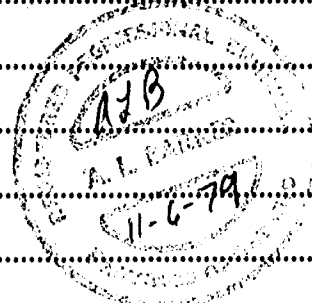
Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE June 6/79 SIGNATURE: Michael H. Wilson
Author of Report or Agent

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

Previous Surveys

File No.	Type	Date	Claim Holder



OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

Number of Stations 181 Number of Readings 543
Station interval 50 - 100 m Line spacing 100 m
Profile scale
Contour interval 1000 cpm above 3000 cpm

MAGNETIC

Instrument
Accuracy - Scale constant
Diurnal correction method
Base Station check-in interval (hours)
Base Station location and value

ELECTROMAGNETIC

Instrument
Coil configuration
Coil separation
Accuracy
Method: Fixed transmitter Shoot back In line Parallel line
Frequency (specify V.L.F. station)
Parameters measured

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument
Method Time Domain Frequency Domain
Parameters - On time Frequency
- Off time Range
- Delay time
- Integration time
Power
Electrode array
Electrode spacing
Type of electrode

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument McPhar TV-1A

Values measured T₁, T₂, T₃: counts per minute

Energy windows (levels) T₁: 0.2 Mev, T₂: 1.6 Mev, T₃: 2.5 Mev

Height of instrument Waist Level Background Count 2,000 - 2,500 cpm

Size of detector Na 1 crystal 1.5 inches diameter & 1.5 inches thick

Overburden 0-1' on ridges; topo lows unknown '>5'
(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
 p. p. m.
 p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

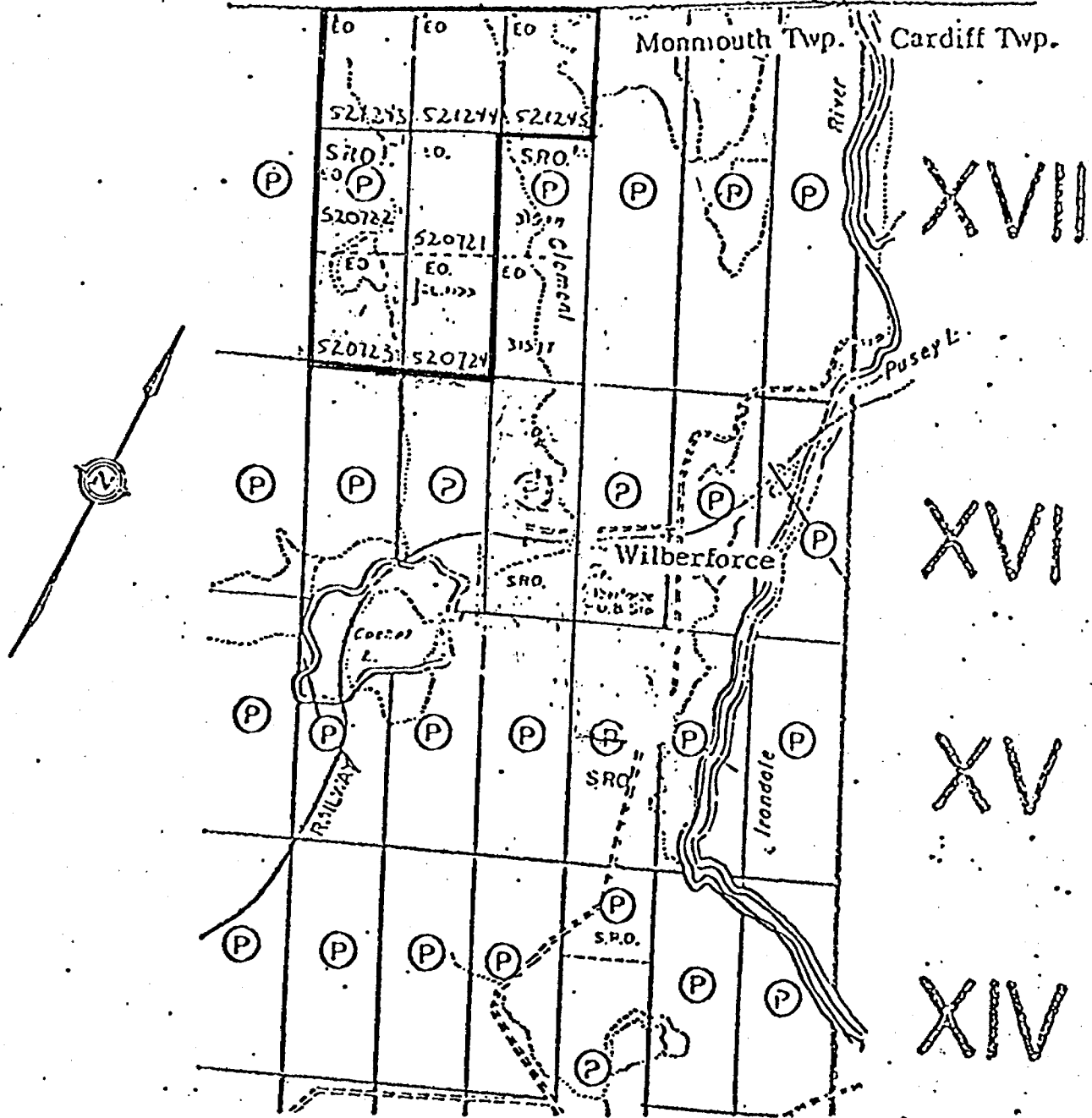
Analytical Method _____

Reagents Used _____

General _____

29 30 31 32 33 34 35
 Dudley Twp. Harcourt Twp.

Monmouth Twp. Cardiff Twp.



LACANA E & B EXPLORATIONS LTD.
 RANGER OIL (CANADA) LIMITED
 LACANA MINING CORPORATION

LACANA URANIUM JOINT VENTURE

BANCROFT PROJECT

PREPARED BY: M.W.	SCALE: 1" = 1/4 mi	DATE: June 4/78	N.T.S. SHEET: 31 E/1	FIGURE:
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Dudley Twp. M.84

THE TOWNSHIP OF
OF

MONMOUTH

PROVISIONAL COUNTY OF
HALIBURTON

EASTERN ONTARIO
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND
- CROWN LAND SALE
- LEASES
- LOCATED LAND
- LICENSE OF OCCUPATION
- MINING RIGHTS ONLY
- SURFACE RIGHTS ONLY
- ROADS
- IMPROVED ROADS
- KINGS HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES

NOTES

This Map Is Not To Be Used
FOR SURVEY PURPOSES—

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

Original shoreline shown thus:
F.R.I. shoreline shown thus:
Patents Map shoreline shown thus:

For status of summer resort locations shown
thus
Please contact Ministry of Natural Resources.

GRAVEL AND SAND

QUARRY PERMIT

Glamorgan Twp. M. 95

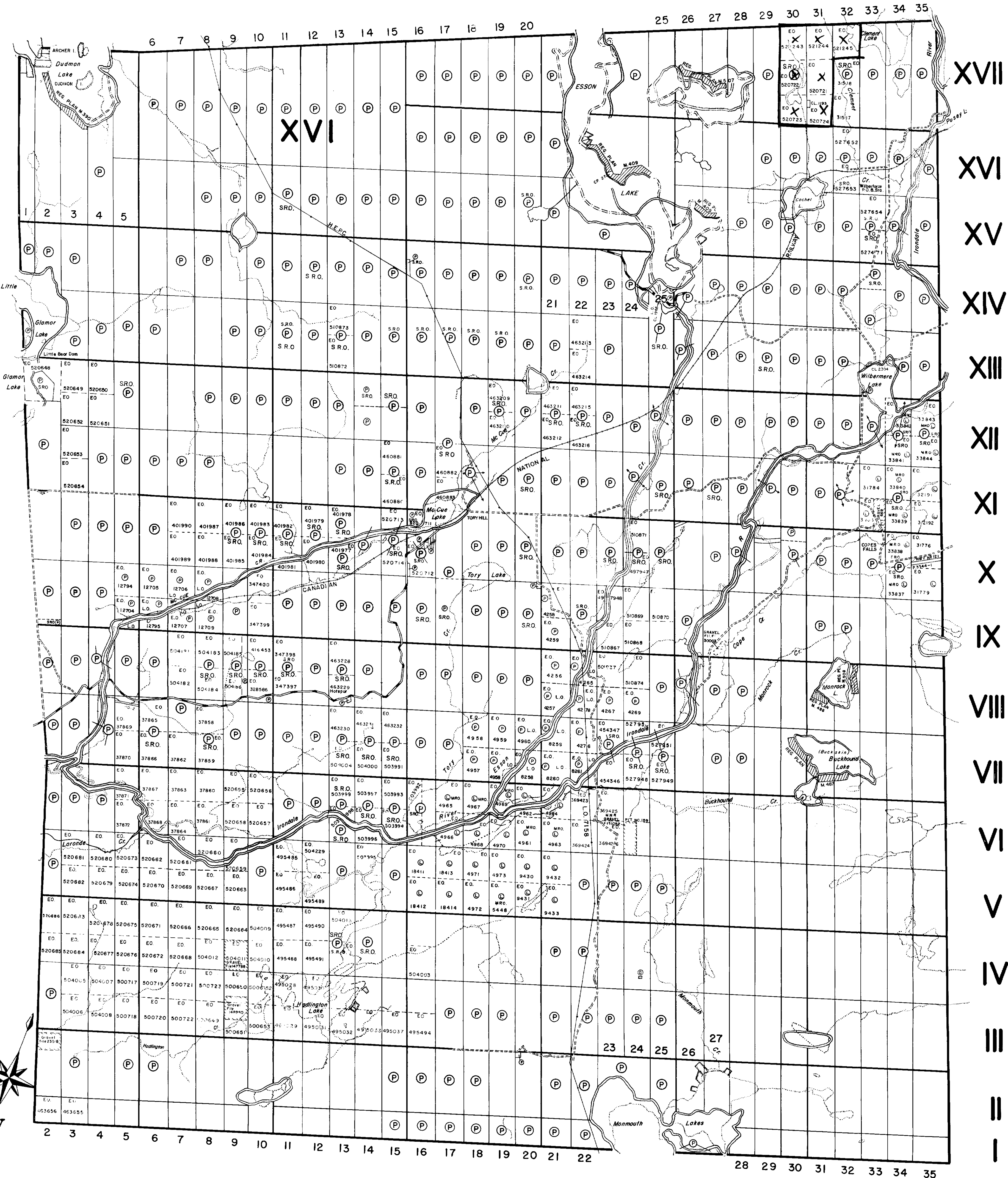
Cardiff Twp. M. 69

Anstruther Twp. M.45

PLAN NO.-M.164

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

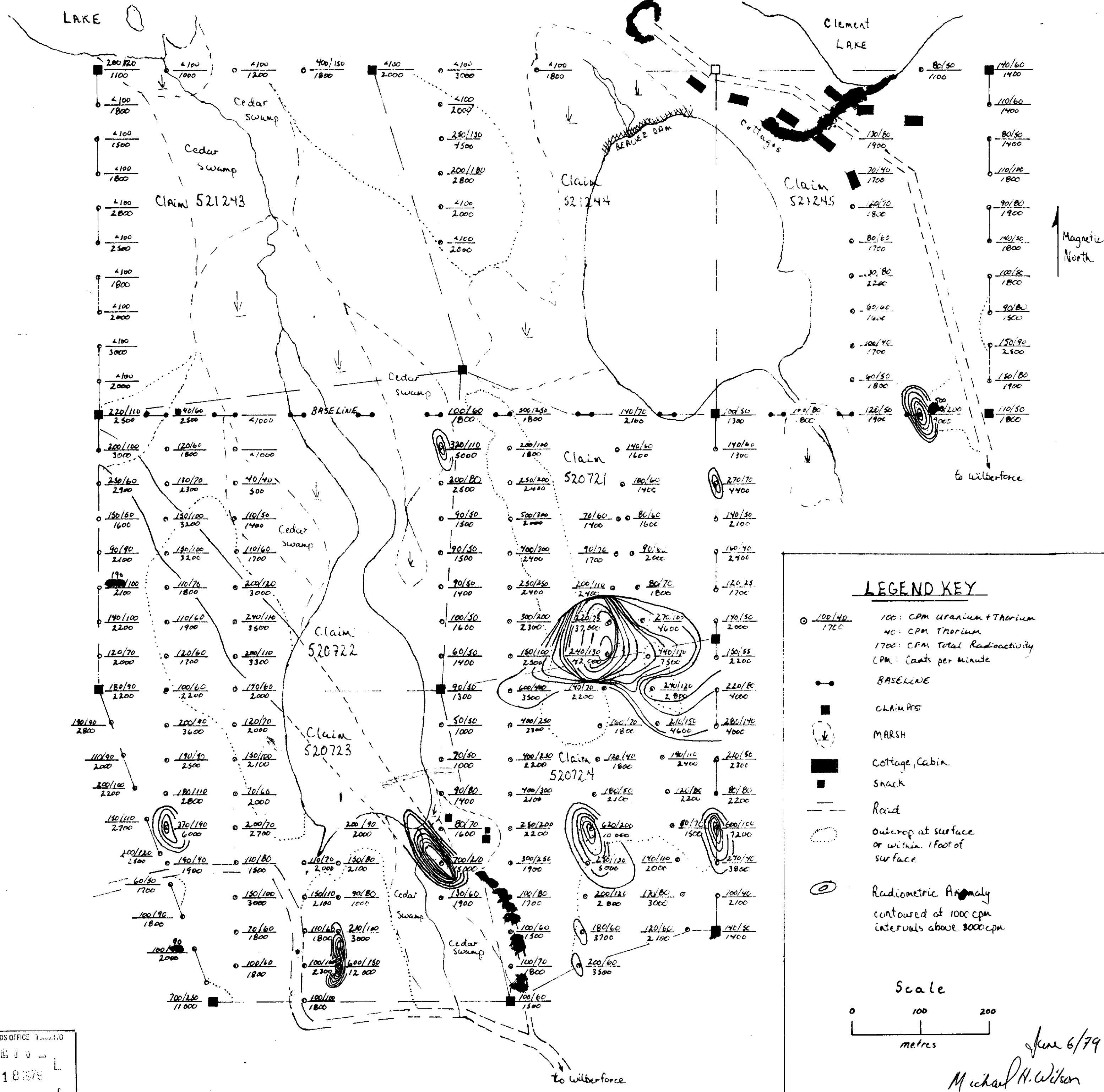
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JUL 12 1979
SURVEYS AND MAPPING
BRANCH



Lot 30

Lot 31

Lot 32



Magnetic North

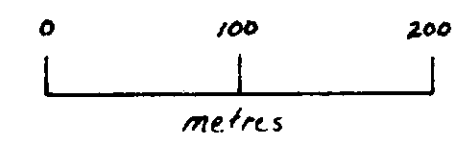
Concession

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LEGEND KEY

- 100/40 100: CPM Uranium + Thorium
1700 1700: CPM Total Radioactivity
- 40/40 40: CPM Thorium
- 1700/1700 1700: CPM Total Radioactivity
- CPM: Counts per minute
- BASELINE
- CLAIM POST
- ⊕ MARSH
- ▣ Cottage, Cabin
- SNACK
- ROAD
- Outcrop at surface or within 1 foot of surface.
- ⊙ Radiometric Anomaly contoured at 1000 cpm intervals above 3000 cpm

Scale



June 6/79

Michael H. Wilson

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