



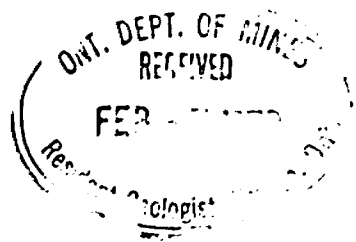
52J09SW9232 2.517 SAVANT

010

R E P O R T

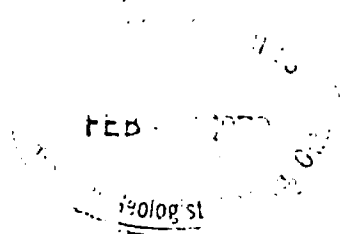
O N

G E O P H Y S I C A L S U R V E Y S
N E W C I N C H U R A N I U M M I N E S L I M I T E D
S A V A N T T O W N S H I P
P A T R I C I A M I N I N G D I V I S I O N
O N T A R I O



July 14, 1971.

W. G. Wahl Limited



Suite 416, 25 Adelaide Street,
Toronto 1, Ontario

July 14, 1971.

Mr. A. W. White,
Suite 416,
25 Adelaide Street West,
Toronto 1, Ontario

Dear Mr. White:

Submitted herewith is the report on:

GEOPHYSICAL SURVEYS
NEW CINCH URANIUM MINES LTD.
SAVANT TOWNSHIP
PATRICIA MINING DIVISION
ONTARIO

Several conductors were mapped by the geophysical surveys some of which appear to be caused by conductive overburden; whereas, others appear to be associated with a bedrock source and are coincident with areas of high magnetic relief.

It is recommended that these more interesting anomalies be detailed on a 200 foot grid using a vertical loop EM survey unit to further define the existing conductors.

MINERAL

The claim group is located in Savant Township on the eastern shore of Savant Lake approximately 50 miles northeast from the town of Savant Lake. The survey was conducted by R. Mercir and C. Miller of Mid-North Engineering Services Limited over the following mineral claims:

PA 254494 PA 254495 PA 254497

held in trust by Mid-North Engineering Services Limited, Suite 416, 25 Adelaide Street West, Toronto, Miner's Licence No. A-22041.

The geology of this area is shown as Geological Map No. 37j "Savant Lake Gold Area" by the Ontario Department of Mines. Airborne data covering this area is published in Geophysical Paper 920G "Neverfreeze Lake" by the Geological Survey of Canada. This area is coded under the National Topographic Series 52 - J - 9.

A grid system, comprising of 12,125 feet, including baselines was carried out under the supervision of Mr. C. Huston, P.Eng, of Wawa, Ontario. The baseline trends east-west with picket lines trending north-south at 400 foot intervals. One hundred foot stations were established on all lines.

MAGNETOMETER SURVEY

Mr. C. Miller during the period from June 15 to June 17, 1971. A Sharp PMF - 3 magnetometer with a sensitivity of ± 10 gammas recorded the vertical magnetic field intensities at fifty foot intervals on all lines.

A total of 242 stations were occupied during the course of the survey.

The magnetic data is assumed to be correct and has been adjusted for magnetic diurnal, and reduced to a local datum. The data is presented on the enclosed map as station values as well as contoured interpretation of these data.

EM SURVEY

The electromagnetic survey was conducted by Mr. R. Mercier during the period from June 15 to June 17, 1971. employing a Ronka EM-16 (VLF) survey unit. This unit measured the inphase component and the out of phase component or quadrature effect, with a sensitivity of $\pm 1\%$. The VLF station used was Cutler, Maine, having a frequency of 17.8 KH_2 . Stations were occupied at 50 foot intervals and the station value plotted on the enclosed map in profile form reading north on all lines. Two hundred and forty-two stations were occupied taking 484 readings; that is, two per station.

GEOLOGY

The Ministry of Northern Development and Mines was extended and defined the geophysical surveys.

The granite is characterized by low uniform magnetics. The volcanics are characterized by moderate magnetic relief. Within the volcanics are lenticular bands of higher magnetic relief. These bands are thought to be tuffaceous horizons. The contact between the granite and the volcanics is characterized by very high magnetic relief +10,000 gammas. This high magnetic relief is thought to be caused by magnetite along the contact.

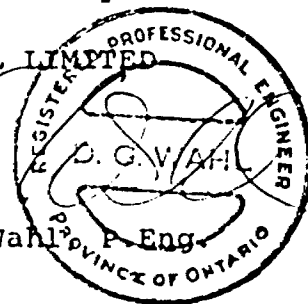
Several conductors were mapped some of which appear to be caused by conductive overburden; whereas, others appear to be associated with a bedrock source and are coincident with areas of high, above background, magnetic relief.

It is recommended that several of the more promising conductors be detailed on a 200 foot grid using a vertical loop EM survey unit to further define the existing conductors.

Yours very truly,

W. G. WAHL LIMITED

D. G. Wahl P. Eng.





February 1, 1972

Mr. W. A. Buchan, ~~the~~
Mining Recorder,
Court House,
Sioux Lookout, Ontario.

Dear Sir:

Re: Mining Claims Pa. 254494, et al,
Savant Township, File 2.517

The Geophysical (Magnetometer and Electromagnetic) assessment
work credits as shown on the attached list have been approved
as of the date above. Please inform the recorded holder and
so indicate on your records.

JUL 22 1972

Yours very truly,

F. W. Matthews (vertical field)

Fred W. Matthews,
Supervisor
Projects Section

OJ/w

encl.

cc: Mr. D. G. Wahl, P. Eng.,
Suite 1101, 302 Bay Street,
Toronto 105, Ontario.

cc: Mid-North Engineering Services Ltd.,
416 - 25 Adelaide Street W.,
Toronto 1, Ontario.

cc: Mr. A. W. White,
416 - 25 Adelaide Street W.,
Toronto 1, Ontario.

cc: Resident Geologist,
Kenora, Ontario.

PROJECTS SECTION
SUPERVISOR PROJECTS SECTION
MINING & CLAIMS
QUEEN'S PARK
TORONTO, ONTARIO

FEB 1972
Geologist

work credits do not apply to all land surveys

ASSESSMENT WORK DETAILS

Type of Survey Magnetometer Survey
A separate form is required for each type of survey

Township or Area Savant Township

Chief Line Cutter Mr. C. Huston, P. Eng.
Name
Wawa, Ontario.
Address

Party Chief Mr. R. Mercier
Name
416 Adelaide St. West.
Address

Consultant Mr. D. G. Wahl P. Eng.
Name
1101 - 302 Bay St., Toronto.
Address

Geological field mapping by -
Name
-
Address

COVERING DATES

Line Cutting March 10 to April 6, 1971.

Field June 15 to June 17, 1971.
Instrument work, geological mapping, sampling etc.

Office July 13 & 14, 1971

INSTRUMENT DATA

Make, Model and Type Sharp PMF 3 (vertical field)

Scale Constant or Sensitivity ± 10 gammas
Or provide copy of instrument data from Manufacturer's brochure.

Radiometric Background Count -

Number of Stations Within Claim Group 242

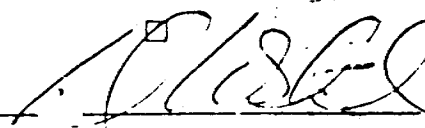
Number of Readings Within Claim Group 242

Number of Miles of Line cut Within Claim Group 2.28

Number of Samples Collected Within Claim Group -

CREDITS REQUESTED

	<u>20 DAYS</u> per claim	<u>40 DAYS</u> per claim	Includes (Line cutting)
Geological Survey	<input type="checkbox"/>	<input type="checkbox"/>	
Geophysical Survey	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Show Check ✓
Geochemical Survey	<input type="checkbox"/>	<input type="checkbox"/>	

DATE July 14 '71 SIGNED 

SPECIAL PROVISION CREDITS
for
PERFORMANCE & COVERAGE

MINING CLAIMS TRAVERSED
List numerically

PA 254494

PA 254495

PA 254497

RECEIVED

JUL 22 1971

PROJECTS
SECTION

TOTAL CLAIMS 3

Send in Duplicate to:
 FRED W. MATTHEWS
 SUPERVISOR-PROJECTS SECTION
 DEPARTMENT OF MINES &
 NORTHERN AFFAIRS
 WHITNEY BLOCK
 QUEEN'S PARK
 TORONTO, ONTARIO

If space insufficient, attach list

ASSESSMENT WORK DETAILS

Type of Survey Electromagnetic Survey
A separate form is required for each type of survey

Township or Area Savant Township

Chief Line Cutter Mr. R. Huston, P.Eng.
Name
Wawa, Ontario
Address

Party Chief Mr. C. Mercier
Name
416 Adelaide St. West
Address

Consultant Mr. D. G. Wahl, P.Eng.
Name
Suite 1101, 302 Bay St., Toronto.
Address

Geological field mapping by -
Name
-
Address

COVERING DATES

Line Cutting March 10 to April 6, 1971

Field June 15 to June 17, 1971
Instrument work, geological mapping, sampling etc.

Office July 13 & 14, 1971.

INSTRUMENT DATA

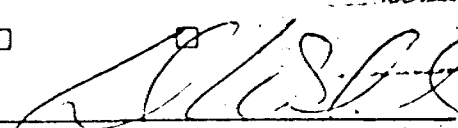
Make, Model and Type Ronka - EM - 16 (VLF)

Scale Constant or Sensitivity ± 1%
Or provide copy of instrument data from Manufacturer's brochure.

Radiometric Background Count	<u>-</u>
Number of Stations Within Claim Group	<u>242</u>
Number of Readings Within Claim Group	<u>484</u>
Number of Miles of Line cut Within Claim Group	<u>2.28</u>
Number of Samples Collected Within Claim Group	<u>-</u>

CREDITS REQUESTED

	<u>20 DAYS</u> <small>per claim</small>	<u>40 DAYS</u> <small>per claim</small>	<small>----- Includes (Line cutting)</small>
Geological Survey	<input type="checkbox"/>	<input type="checkbox"/>	
Geophysical Survey	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<small>Show Check ✓</small>
Geochemical Survey	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

DATE July 14 '71. SIGNED 

SPECIAL PROVISION CREDITS
for
PERFORMANCE & COVERAGE

MINING CLAIMS TRAVERSED
List numerically

PA 254494

PA 254495

PA 254497

RECEIVED

JUL 22 1971

PROJECTS
SECTION

TOTAL CLAIMS 3

Send in Duplicate to:

FRED W. MATTHEWS
SUPERVISOR-PROJECTS SECTION
DEPARTMENT OF MINES &
NORTHERN AFFAIRS
WHITNEY BLOCK
QUEEN'S PARK
TORONTO, ONTARIO

If space insufficient, attach list



TECHNICAL ASSESSMENT WORK CREDITS

Recorder Holder

Mid-North Engineering Services Limited,

Township or Area

Savant Township

Type of Survey and number of Assessment Days Credits per claim

GEOPHYSICAL

Magnetometer 40 days

Electromagnetic 20 days

Radiometric days

GEOLOGICAL days

GEOCHEMICAL days

Man days

Ground

Special Provision

Airborne

NOTICE OF INTENT TO BE ISSUED

Credits have been reduced because of partial coverage of claims.

Credits have been reduced because of corrections to work dates and figures of applicant.

NO CREDITS have been allowed for the following mining claims as they were not sufficiently covered by the survey:

Mining Claims	
Pa. 254494	
254495	
254497	

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40;

ASSESSMENT WORK DETAILS

Type of Survey Magnetometer Survey
As defined in the regulations

Township or Area Savant Township

Chief Line Cutter Mr. R. Mercier
Name
 or Contractor Wawa, Ontario.
Address

Party Chief Mr. R. Mercier
Name
416 Adelaide St. West.
Address

Consultant Mr. D. E. Wahl P. Eng.
Name
1101 - 302 Bay St., Toronto.
Address

Geological field mapping by -
Name
-
Address

COVERING DATES

Line Cutting March 10 to April 6, 1971.

Field June 15 to June 17, 1971.
Instrument work, geological mapping, sampling etc.

Office July 13 & 14, 1971

INSTRUMENT DATA

Make, Model and Type Sharp PMF 3 (vertical field)

Scale Constant or Sensitivity ± 10 gammas
Or provide copy of instrument data from Manufacturer's brochure.

Radiometric Background Count -

Number of Stations Within Claim Group 242

Number of Readings Within Claim Group 242

Number of Miles of Line cut Within Claim Group 2.28

Number of Samples Collected Within Claim Group -

<u>CREDITS REQUESTED</u>	<u>20 DAYS</u> <small>per claim</small>	<u>40 DAYS</u> <small>per claim</small>	<small>Includes (Line cutting)</small>
Geological Survey	<input type="checkbox"/>	<input type="checkbox"/>	
Geophysical Survey	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Geochemical Survey	<input type="checkbox"/>	<input type="checkbox"/>	

DATE July 14, 1971 SIGNED [Signature]



MINING CLAIMS TRAVERSED
 List numerically

PA 254494

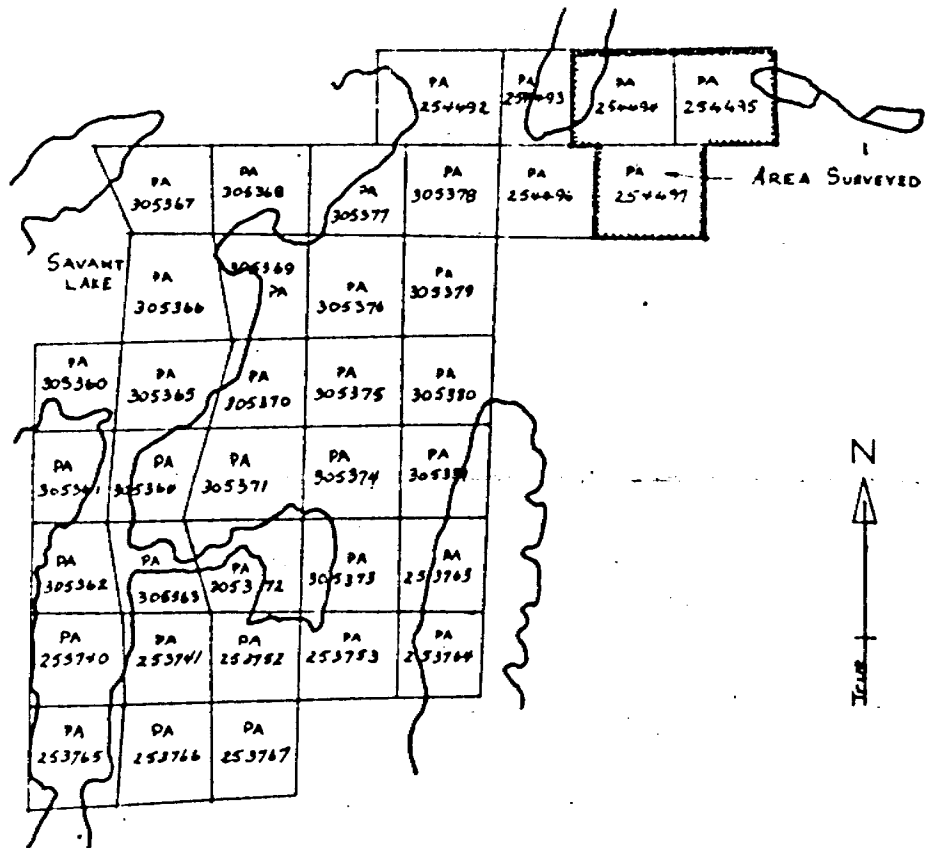
PA 254495

PA 254497

RECEIVED
 JUL 22 1971
 PROSPECTOR SECTION

TOTAL CLAIMS 3

If space insufficient, attach list



Savant Twp.

McGillis Twp.

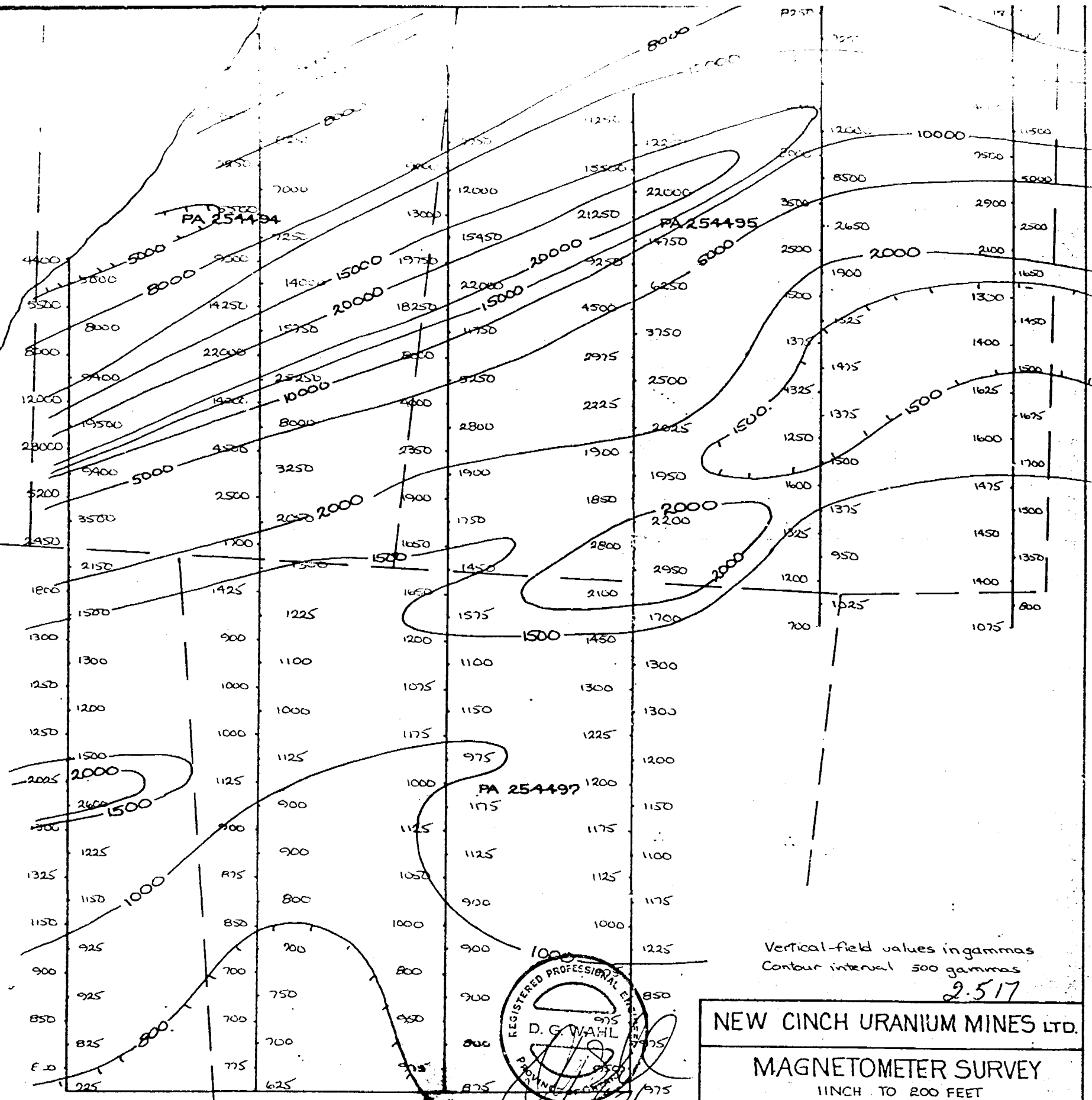
Scale 1 inch to 1/2 mile

2-517

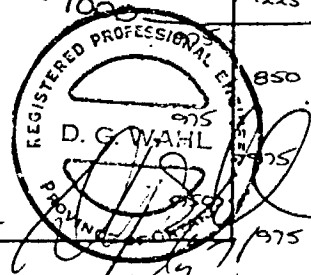
NEW CINCH URANIUM MINES LTD


CLAIM LOCATION MAP

JULY 1971



Vertical-field values in gammas
Contour interval 500 gammas
2.517



NEW CINCH URANIUM MINES LTD.	
MAGNETOMETER SURVEY	
1 INCH TO 200 FEET	
W.G. WAHL Ltd.	
JULY 1971	

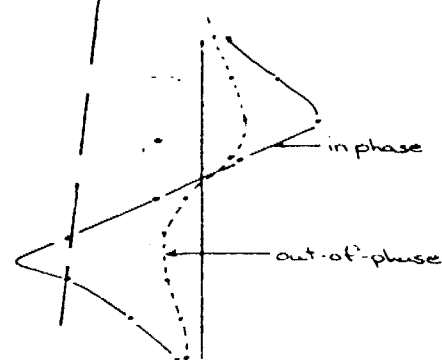
SCALE



PA 254484

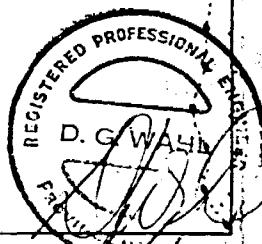
PA 254485

PA 254497



1" To 20%

2517



NEW CINCH URANIUM MINES LTD.

RONKA EM-16 SURVEY

1 INCH TO 200 FEET

WG.WAHL Ltd.



JULY 1971