

REPORT



ON

010

ACME GAS & OIL CO., LIMITED

DRURY TOWNSHIP

SUDBURY MINING DIVISION

ONTARIO

INTRODUCTION:

During November and December of 1966 the writer mapped and completed a reconnaissance geiger-scintillometer survey for uranium over parts of the property - the mapping and radioactive survey were confined to the south part of the property which is largely underlain by Huronian sediments.

DESCRIPTION AND ACCESSIBILITY:

This report covers four claims, S-134890, S-135353, S-137423 and S-137424, occurring in the south half of Lot 6, Concession IV.

The property lies 30 miles west of Sudbury and 10 miles north of Highway 17. An all-weather gravel road leads to the northeast corner of the claim group.

GENERAL GEOLOGY:

The general geology is shown on the Ontario Department of Mines Map No. 2055, which accompanies Report No. 34.

Striking easterly through the centre of Lot 4 is the contact between the granitic-volcanic basement rocks and the overlying sediments believed to be of Huronian age. These sediments are a thick succession of interbedded quartzite, graywacke and argillite which are presumed to be the equivalent of the Mississagi sequence of Elliot Lake. Locally the quartzites contain interbeds of oligomictic quartz-pebble conglomerate and grits which are uranium bearing. The sediments have been extensively intruded by dikes and sills of gabbroic rocks and diabase.

The sediments strike approximately east-west, roughly parallel to the granitic-volcanic contact with steep north and south dips.

GEOLOGY OF THE PROPERTY:

All work to date has been concentrated south of the granitic-volcanic contact and the accompanying map shows the

geology, zones of radioactivity, pits and available assays. Rock outcrop occurs over less than 25% of the map area.

With few exceptions the sediments show a steep dip, 80° - 85° to the north.

ECONOMIC GEOLOGY:

Radioactivity is widespread in the quartzite areas, readings of 2 - 3 times background is most common but unless noted otherwise all zones of radio-activity indicated on the map are in the order of 10 times background. All of the areas chosen for blasting yielded readings over 10 times background, both before and after blasting. The disparity in assay results - that is, the low results obtained in many pits in comparison to No. 1 pit - leads the writer to suspect that possibly in most areas sampled, the shallow pits (average 2 - 3 feet deep) have not penetrated beyond the zone of leaching. Certainly signs of oxidation are present in most of the pits and resultant assays may be low because of this. No. 1 pit which gave the best values (1.56 lbs. U³⁰⁸ over 20 feet) is the freshest in appearance. The original outcrop was of small extent and stripping was necessary to expose the full zone of radioactivity.

The No. 1 showing consists of parallel bands of oligomictic quartz-pebble conglomerate; 1 - 2 feet in width containing small scattered squeezed pebbles within a reddish feldspathic quartzite which is sometimes gritty. Fine pyrite is present. The dip is steeply north. Further work, preferably drilling, will be required to determine if #1 zone strikes westerly into pits 8, 9 and 10 and/or easterly into pits No. 5 and 2.

Approximately 400 feet east and 600 feet north of the south boundary of claim S-137423 on a patented claim not owned by Acme lies a zone of impressive radioactivity. Three parallel bands of radioactive quartzite (10 x b.g.) being 6, 5 and 3 feet in width separated by 3 feet and 5 feet of barren quartzite occur near the edge of a large outcrop. No attempt was made to trace this zone westerly into the Acme ground. However, it shows a possible alignment with fair radioactivity noted in a small area of outcrop in the creek bed approximately 300 feet south of No. 1 showing.

SUMMARY AND CONCLUSIONS:

The limited work that has been completed under adverse conditions (snow was present in varying amounts at all times) has revealed widespread radioactivity associated with a thick succession of quartzite which is believed to be the equivalent of the

Mississagi quartzite of Elliot Lake and which is the host rock for the uranium deposits presently being developed by Kerr-Addison Mines, 6 miles to the west. Only a small portion of the favourable outcrop areas has been thoroughly prospected for uranium but has yielded an impressive number of showings, the most important of which is No. 1, which yielded 1.56 lb. U³⁰⁸ over 20 feet. Considering that overburden covers 75% of the favourable areas, it is apparent that surface prospecting reveals to a very limited extent the possible potential of the ground.

RECOMMENDATIONS:

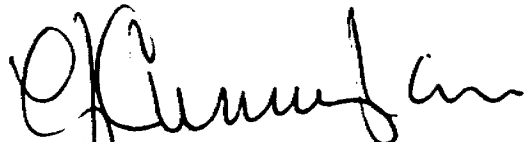
Winter Program

- (1) Drill No. 1 showing - attempt to extend the zone both vertically and horizontally.
- (2) Extend the program from No. 1 showing to test the quartzites in the vicinity of pits 2 - 5 and 8 - 15.
- (3) Drill one or more deep holes to reach the granitic-volcanic contact.
- (4) If snow conditions are light, continue scintillometer surveys over obvious outcrop area.

Summer Program

- (1) Complete mapping and scintillometer survey.

Respectfully submitted,



L. J. Cunningham, B.Sc., P.Eng.,
Mining Engineer.

Dated at
Kirkland Lake, Ontario
28th December, 1966

ASSESSMENT WORK BREAKDOWN

GEOLOGICAL

- 1. Type of Survey Geological
- 2. Township or Area DRURY TOWNSHIP
- 3. Numbers of Mining Claims Traversed by Survey S-134890, S-135353, S-137423, S-137424



900

- 4. Number of Miles of Line Cut 41 Flowm _____
- *5. Number of Stations Established _____
- *6. Make and type of Instrument Used _____
- *7. Scale Constant or Sensitivity _____
- *8. Frequency Used and Power Output _____

- 9. Summary of Assessment Credits (details on reverse side)
- Total 8 hour Technical Days (Include Consultants, Draughting etc.) 23
- Total 8 hour Line-Cutting Days 8

Calculation

$$\frac{23}{\text{Technical}} \times 7 = \frac{161}{\text{Line-cutting}} + \frac{8}{\text{Number of claims}} = \frac{169}{\text{Number of claims}} \div \frac{4}{\text{Assessment credits per claim}} = \frac{42.2}{\text{Assessment credits per claim}}$$

The dates listed on this form represent working time spent entirely within the limits of the above listed claims Check
 If otherwise, please explain _____

Dated: 7 April 1967 Signed: L. J. Cunningham

- Note:
- (A) * Complete only if applicable.
 - (B) Complete list of names, addresses and dates on reverse side.
 - (C) Submit separate breakdown for each type of survey.
 - (D) Submit in duplicate.

ASSESSMENT WORK BREAKDOWN

1. FIELD WORK

<u>Type of Work</u>	<u>Name & Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
<u>Geologist Assistant</u>			
	S. Ormsell, Worthington, Ontario.	Nov. 18 - Dec. 20/66	5
	W. Gloster, Timmins, Ontario	Nov. 18 - Dec. 15/66	5

2. CONSULTANTS

<u>Name & Address</u>	<u>Dates Worked (specify in field or office)</u>	<u>Number of 8 hour days</u>
L. J. Cunningham, Kirkland Lake, Ontario		
L. J. Cunningham, Kirkland Lake, Ontario	Nov. 17 - Dec. 22/66 Field	10
	Dec. 27 - 28/66 Office	2

3. DRAUGHTSMAN, TYPING, OTHERS (specify)

<u>Name & Address</u>	<u>Type of Work</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
R. Breitner, Toronto, Ontario	Typing	Dec. 30/66	1

TOTAL 8 HOUR TECHNICAL DAYS 23

4. LINE-CUTTING

<u>Name</u>	<u>Address</u>	<u>Dates Worked</u>	<u>Number of 8 hour days</u>
P. Kocour, Timmins, Ontario		Nov. 2 - 15/66	4
W. Wilson, Timmins, Ontario		Nov. 2 - 15/66	4
W. Wilson, Timmins, Ontario		NOV. 2 - 15/66	

TOTAL 8 HOUR LINE-CUTTING DAYS 8

EASTERN ONTARIO
MINING DIVISION



ONTARIO

DEPARTMENT OF MINES

OFFICE OF MINING RECORDER

63A.521

PARLIAMENT BUILDINGS
TORONTO 2, ONTARIO
TEL. 365-1322

November 28th, 1967

Re: S 134890 et. al.
Drury Twp

Dear Sir:

The geological assessment work credits as listed with my Notice of Intent dated November 13, 1967 have been approved as of the above date. Please inform the recorded holder and so indicate on your records.

Yours truly,

A handwritten signature in cursive script, appearing to read "Fred W. Matthews".

Fred W. Matthews,
Mining Recorder.

:sm

cc. Mr. B. W. Lang
Acme Gas & Oil Co. Ltd.
Mr. J. F. McFarland
Dr. J. F. Donovan

Mr. K. M. Halleck
Mining Recorder
Sudbury, Ontar. o

Rec. in Sudbury
Rev. Head. Office
Apr. 19/71



ONTARIO

THE MINING ACT REPORT OF WORK

A separate form is required for each type of work to be recorded.

To the Recorder of Sudbury Mining Division

I, Acme Gas & Oil Co., Limited A-31770
name of Recorded Holder Miner's Licence

..... Suite 401 - 80 Richmond St. West, Toronto 1, Ontario
Post Office Address

do hereby report the performance of 1,440 days of Geological
type of work

not before reported to be applied on the following contiguous claims

Claim No.	Days	Claim No.	Days	Claim No.	Days
.....	See attached list of claims - S-138813 et al
.....
.....
.....
.....
.....

All the work was performed on claim(s) See attached list of claims Deery Two
(In the case of geological and/or geophysical survey (s) where more than 13 claims are involved attach a schedule)

READ CAREFULLY: THE FOLLOWING INFORMATION IS REQUIRED BY THE MINING RECORDER.

- For Manual Work, Stripping or Opening up of Mines, Sinking Shafts or Other Actual Mining Operations - Names and addresses of the men who performed the work and the dates and hours of their employment.
- For Diamond and other Core Drilling - Footage, No. and angle of holes and diameter of core. Name and address of owner or operator of drill. Dates when drilling was done. Signed core log and sketch in duplicate.
- For Compressed Air or Other Power Driven or Mechanical Equipment - Type of drill or equipment. Names and addresses of men engaged in operating equipment and the dates and hours of their employment.
- For Power Stripping - Type of equipment. Name and address of owner or operator. Amount expended. Dates on which work was done. Proof of actual cost must be submitted within 30 days of recording.
- With each of the above types of work sketches are required to show the location and extent of the work in relation to the nearest claim post. In the case of diamond or other core drilling the sketch must be submitted in duplicate.
- For Geological and Geophysical Survey - The names and addresses of men employed as well as dates. Type of instrument used in the case of geophysical survey. Reports and maps in duplicate must be filed with the Minister within 60 days of recording.
- For Land Survey - the name and address of Ontario Land surveyor.

The Required Information is as Follows: (Attach a list if this space is insufficient)

Geological Survey: under Special Provisions
see attached form for details.

Date March 5, 1971

E. A. Rigulski
Signature of Recorded Holder or Agent

The Mining Act
Certificate Verifying Report of Work

I, E. A. Rigulski
Suite 401 - 80 Richmond St. West, Toronto 1, Ontario
(Post Office Address)

hereby certify:

- That I have a personal and intimate knowledge of the facts set forth in the report of work annexed hereto, having performed the work or witnessed its completion.
- That the annexed report is true.

Dated March 5 1971

SUDBURY
RECEIVED
MAR 9 1971
7 8 9 10 11 12 13 14 15 16

E. A. Rigulski
Signature

S.138813

THE PENALTY FOR MAKING A FALSE STATEMENT IN THIS REPORT AND/OR CERTIFICATE IS \$500. OR SIX MONTHS IMPRISONMENT OR BOTH

ACME GAS & OIL CO., LIMITED
 DISTRIBUTION OF DAYS FOR GEOLOGICAL SURVEY
 IN DRURY TOWNSHIP, ONTARIO

<u>Claim No.</u>	<u>No. of Days</u>	<u>Claim No.</u>	<u>No. of Days</u>
S-138813	40 ✓	S-139133	40 ✓
138814	40 ✓	139134	40 ✓
138815	40 ✓	139404	40 ✓
138816	40 ✓	139407	40 ✓
138817	40 ✓	139412	40 ✓
138818	40 ✓	139413	40 ✓
138819	40 ✓	139414	40 ✓
138820	40 ✓	139416	40 ✓
138821	40 ✓	139440	40 ✓
138824	40 ✓	139442	40 ✓
138845	40 ✓	139443	40 ✓
138842	40 ✓	139444	40 ✓
138843	40 ✓	139445	40 ✓
138844	40 ✓	139446	40 ✓
139126	40 ✓	139447	40 ✓
139127	40 ✓	139448	40 ✓
139128	40 ✓	140892	40 ✓
139132	40 ✓	140893	40 ✓

1,440 Days

E. G. Pegulski
 March 5, 1971

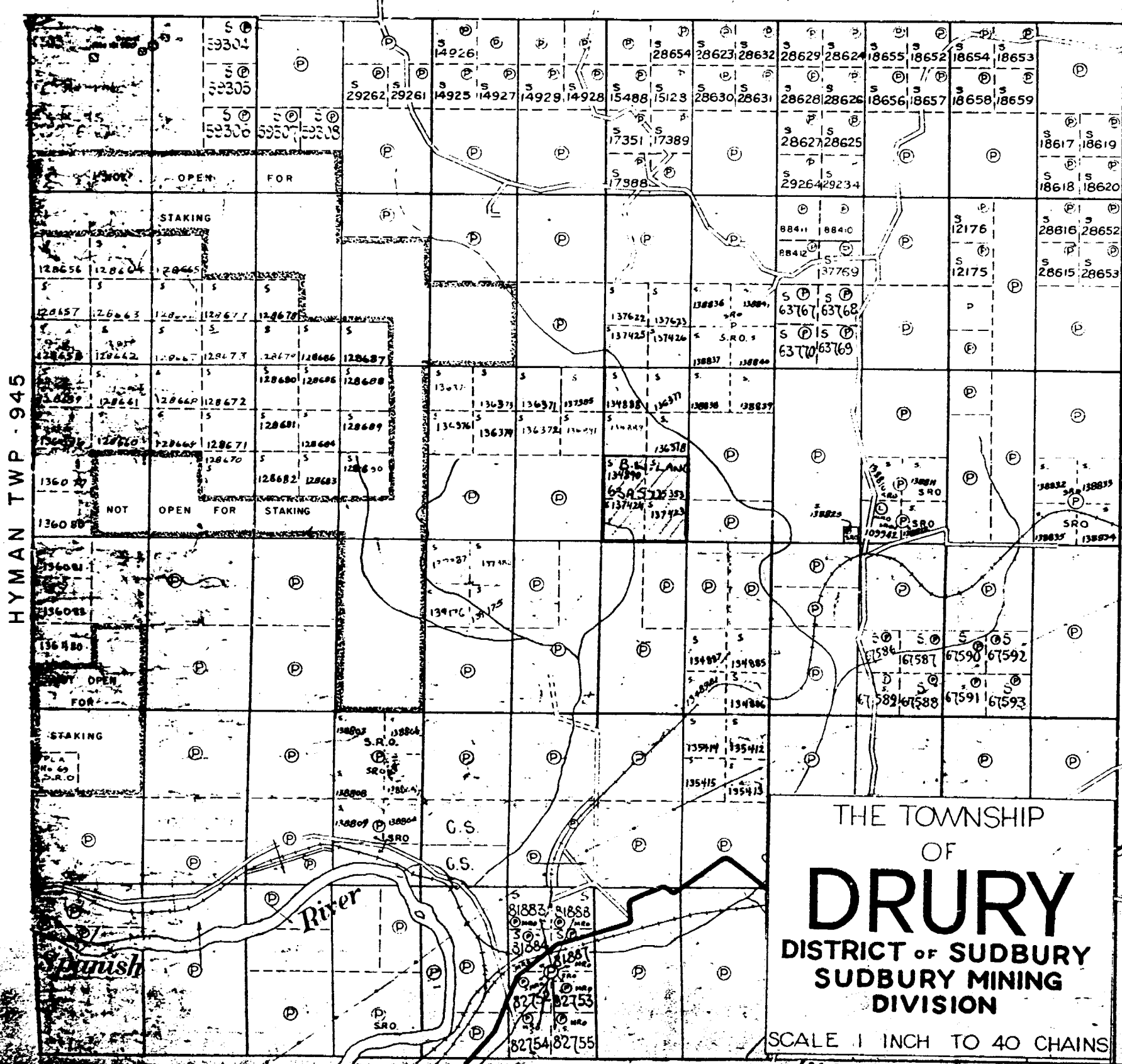
ACME GAS & OIL CO., LIMITED
 DISTRIBUTION OF DAYS FOR GEOLOGICAL SURVEY
 IN DREY TOWNSHIP, ONTARIO

<u>Claim No.</u>	<u>No. of Days</u>	<u>Claim No.</u>	<u>No. of Days</u>
S-138813	40	S-139133	40
138814	40	139134	40
138815	40	139404	40
138816	40	139407	40
138817	40	139412	40
138818	40	139413	40
138819	40	139414	40
138820	40	139416	40
138821	40	139440	40
138824	40	139442	40
138845	40	139443	40
138842	40	139444	40
138943	40	139445	40
138844	40	139446	40
139126	40	139447	40
139127	40	139448	40
139128	40	140892	40
139132	40	140893	40

1,440 Days

E. G. P. Piquelstein
 March 5, 1921

TRILL TWP
(M. 1163)



VI
V
IV
III
II
I

HYMAN TWP - 945

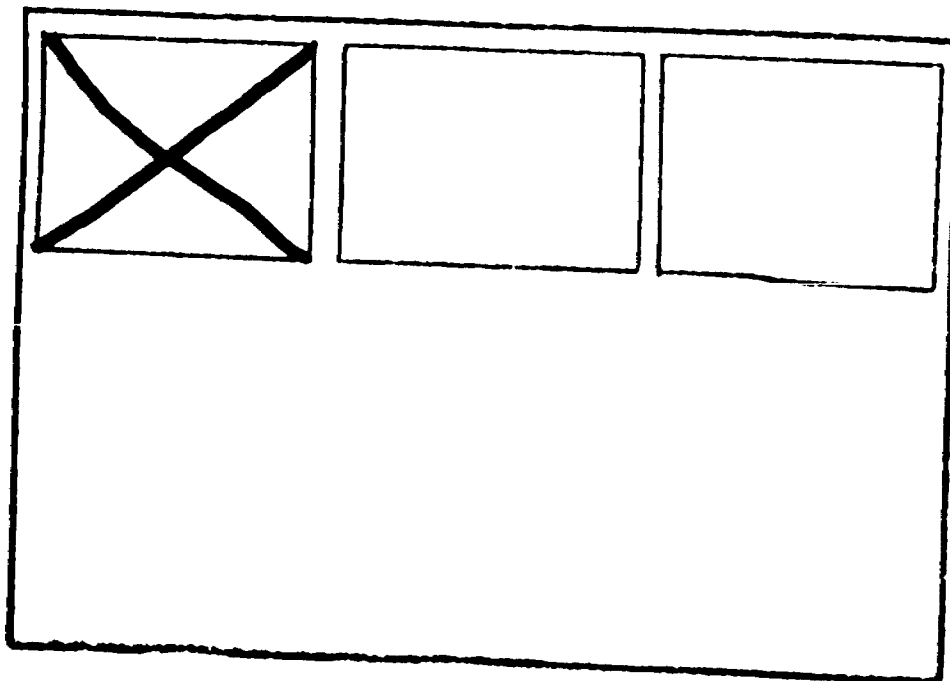
DENISON TWP
(M. 756)

THE TOWNSHIP
OF
DRURY
DISTRICT OF SUDBURY
SUDBURY MINING
DIVISION
SCALE 1 INCH TO 40 CHAINS

LORNE TWP (M. 999)

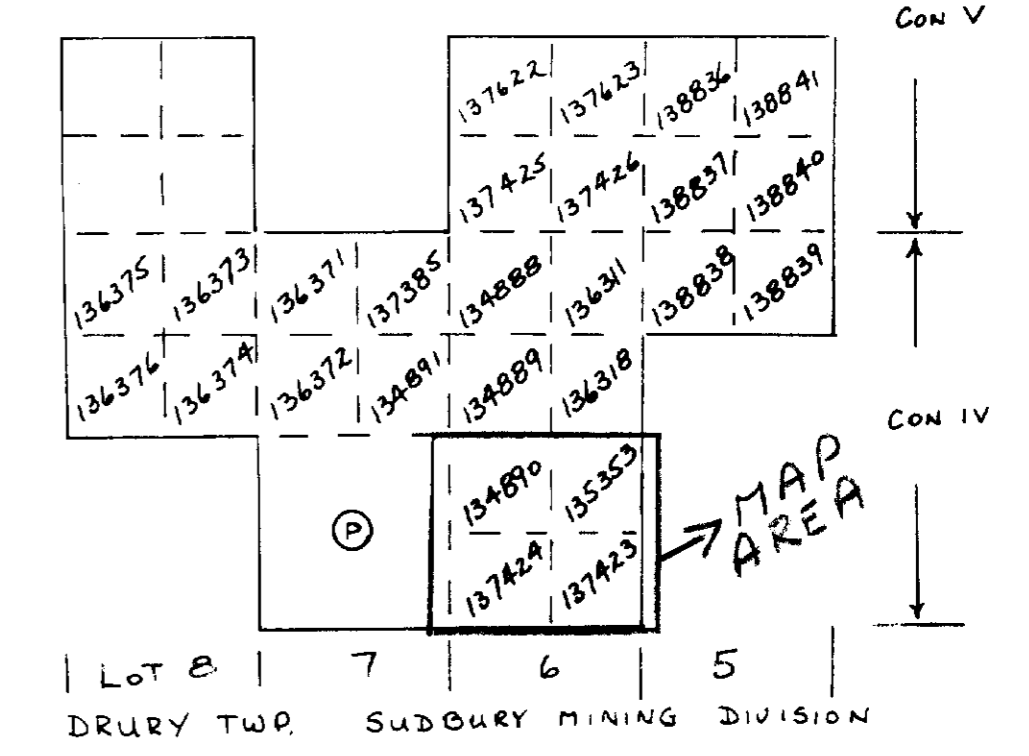
SEE ACCOMPANYING
MAP(S) IDENTIFIED AS
DRURY-0022-A1 #1

LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)



GRANITE VOLCANIC CONTACT

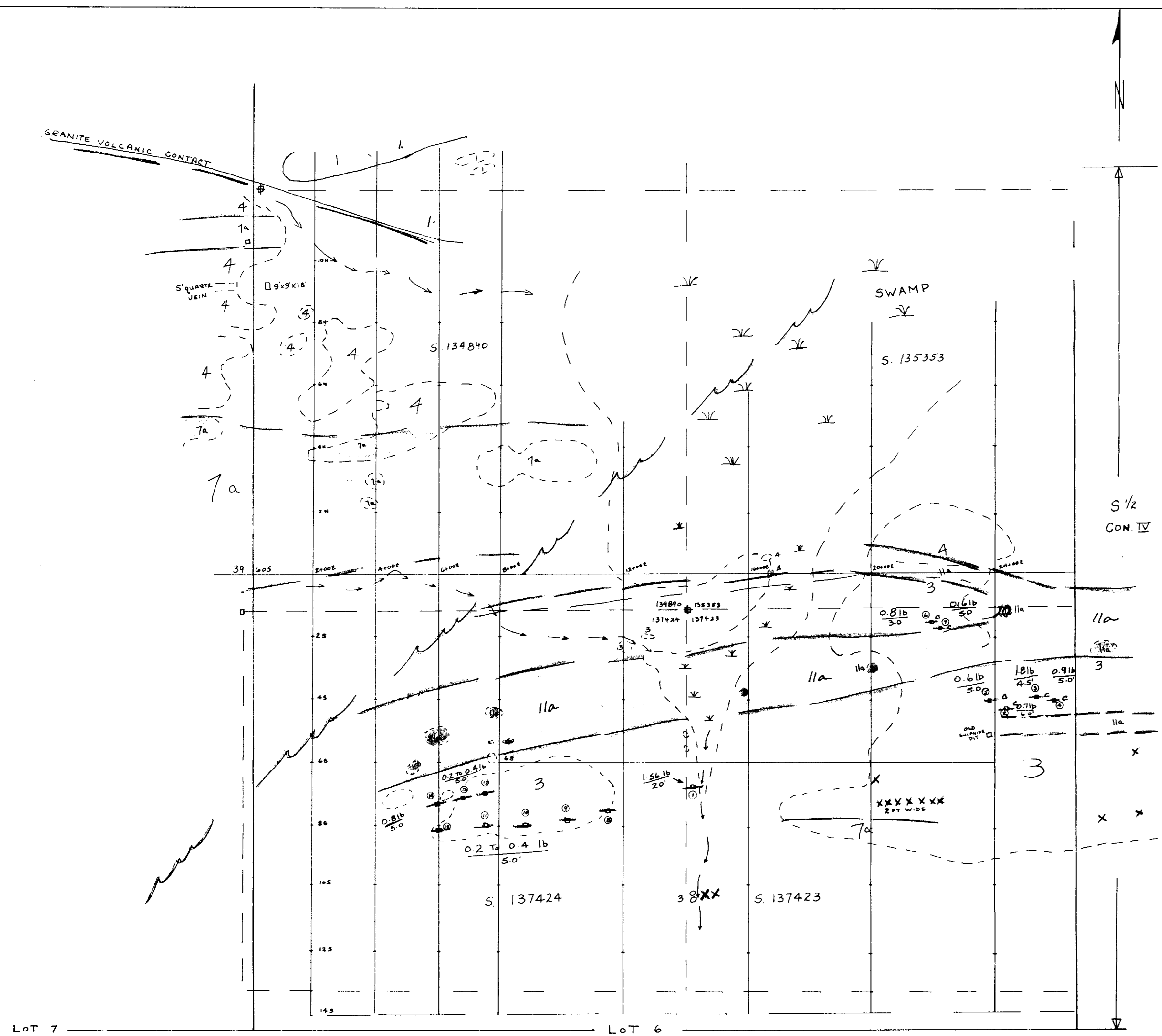
KEY MAP
SCALE 1" = 1/2 MILE



- LEGEND**
- 1/a [shaded box] OLIVINE DIABASE INTRUSIVE
 - 7a [shaded box] GABBROIC ROCKS INTRUSIVE
 - 4 [shaded box] ARGILLITE SLATE
 - 3 [shaded box] QUARTZITE ARKOSE
 - c [shaded box] OLIGOMICTIC QUARTZ PEBBLE CONGLOMERATE
 - 2 [shaded box] GRANITIC ROCKS
 - 1 [shaded box] VOLCANICS
 - RADIOACTIVE ZONES
 - R/a [X] RADIOACTIVE SHOWING
 - PITS

NOTE 3 PARALLEL BANDS OF RADIOACTIVE QUARTZITE BEING 4, 5 AND 3 FEET WIDE SEPARATED BY 3FT AND 5FT BARREN QUARTZITE

ACME GAS & OIL Co. LTD.
DRURY TWP.
SCALE 1" = 200'
27 DEC 1966 L. J. CUNNINGHAM B.Sc.
P. ENG.



DRURY-0022-AI-1
7 April 1967