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GEOLOGICAL SURVEY  
OF THE  
SHAKESPEARE TOWNSHIP PROPERTY  
FOR  
RODNEY GOLD MINES LIMITED  
SUITE 1800, RICHMOND-ADELAIDE CENTRE  
120 ADELAIDE STREET WEST  
TORONTO M5H 1S8

by

Michael Ogden, B.A.Sc., P.Eng.

Toronto, Ontario

December, 1973

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INTRODUCTION

The recent increase in the price of gold from \$42 to \$100 an ounce, plus the possibility of strata-bound mineralization, required a new study to be made of the old property. Hence, a geological mapping survey was done of the shaft area and nearby claims. The report is based on that survey plus the old maps, assay plans and reports of the company files.

CONCLUSIONS

1. The gold mineralization tends to occur in a quartzite environment, near or at the contact with greywacke. The old level plans show this.
2. The gold occurs, with or without sulphides, in minor quartz veins, seemingly parallel to the bedding which is northeast. But the mineralized zones trend northerly for 40 to 70 feet from an east-west fault, e.g., the two zones on the 50-foot level, the 2 or 3 on the 88-foot level, one of two on the 128th and one of two on the 175th level.
3. The mineralization is found on either side of the east-west fault, and close to it (within 70 feet). The ones mentioned in 2 above are all north of the fault, whereas south of the fault there is gold mineralization on the 175-foot level and in surface hole #3.
4. The area north of the fault has been well explored by drilling and underground work, whereas to the south, it has only been partly explored.

5. There is another east-west fault, 500 feet to the south which has never been seriously tested for gold zones. Holes 7 and 8 nibbled nearby and encountered minor gold over good lengths. This fault has a lot of parallel quartz veining nearby as it cuts through the gabbro, to the east.

6. There is no evidence to support the idea of gold-bearing quartz-pebble-conglomerates in the sediments. This concept looked reasonable during a short visit last summer, but not after a long look now.

#### RECOMMENDATIONS

Bulldoze three trenches down to bedrock alongside the east-west faults. Wash them down with water from the nearby lake, prospect, geological map, and sample them for gold mineralization.

Each trench should be between 400 and 500 feet in length. One would lie just to the south of the northerly east-west fault, and the other two, about 80 to 100 feet apart, should straddle the southerly fault.

#### PROPERTY, LOCATION AND ACCESS

The property, of one leased claim No. S-110445 and four recently-staked claims numbered S-373462, -463, -464, and -465, lies two miles north of Highway 17, just east of Webbwood, Ontario. This location is 50 miles west of Sudbury and 10 miles west of Espanola. Access is simple by car, along Highway 17, north at the western edge of Webbwood for about 1½ miles and then east to the property until the road is under the big power line, a distance of two miles more.

#### BRIEF HISTORY

During the initial period of exploration and development from 1903 to 1907, a shaft was sunk to 315 feet, 6 levels established at 50-foot

intervals, 2,600 feet of drifting and crosscutting were done and some 7,000 tons of rock were mined, which is reported in government files to have averaged 0.30 ounces of gold per ton.

After a long dormant period, it was worked again in 1945-46 by a Mr. Oreck who hand cobbled some 9 tons of high grade during the two years, averaging between 22 and 30 ounces per ton.

The last active period of exploration was 1950 to 1961, during which various companies tried to ascertain the key to ore deposition and to find enough of it to go into production. An adit was driven into the 3rd level from the north, which drained the workings down to 128 feet. A four-ton bulk sample of 10-ounce rock was removed. Seventeen drill holes were put down from both surface and underground for a total of 3,481 lineal feet of drilling. A magnetometer survey was completed over the area. Numerous check assays were taken from both surface and underground in the course of various examinations.

#### REFERENCES

1. O.D.M. 1929 Vol. 38 Pt. 7, E.S. Moore.
2. Ensign Gold Mines, Colin Campbell, 1936.
3. Greenray Mines Ltd., H.R. Kempthorne, 1950.
4. Magnetometer Survey, R.A. Poutanen, 1959.
5. Shakespeare Property, P.S. Broadhurst, 1960.
6. Vermont Mines, R.S. Stronach, 1961.
7. Shakespeare Property, Broadhurst & Ogden, 1961.
8. Rodney Gold Mines, Michael Ogden, 1971.

ROCK TYPES

Intrusive Rocks

**Gabbro:** A medium to coarse grain almost black rock of about half and half hornblende and dark plagioclase. The O.D.M. map No. P-614 made by K.D. Card et al in 1970, shows this rock as a "meta-gabbro".

Interbedded Rocks

**Greywacke:** The most common sediment. A micaceous, sheared, medium to fine grain hard rock, usually with clearly defined bedding of magazine-like thickness. K.D. Card used the name "muscovite chlorite pelite".

**Quartzite:** A very fine grain, grey, very hard, conchoidal fracturing rock with magazine thick bedding, often undulating. This was termed "feldspathic sandstone or protoquartzite" by K. D. Card.

**Arkose:** A coarse grain clastic sediment of pieces of very fine light grey rock in a darker medium grain matrix. Card also called it arkose.

**Basalt:** A fine grain, dark green to almost black rock, that looks like a volcanic. This was called metagabbro by Card.

**Amygdaloidal Basalt:** A variety of basalt, possibly a flow top.

All the consolidated rocks are of precambrian age. The sediments are mapped as archaean but the presence of minor radioactivity along strike plus

small amounts of quartz pebble conglomerate is suggestive that they may be lower Huronian.

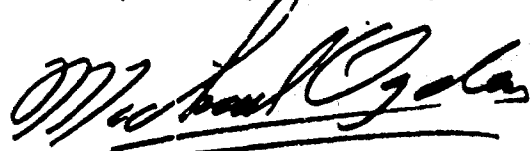
Bedrock is overlain by a light layer of glacial deposits up to 20 or 25 feet thick in the shallow valleys.

#### GEOLOGICAL SURVEY

The ground survey was done by the author, during the period October 30 to November 10. The map and report were completed in November and December. The survey was done on north-south, pace and compass lines, at 300-foot separations, using a carefully paced control line along the wagon road through the property.

All the old maps, surveys, assay plans, drill plans and magnetometer survey were studied again in the light of the geological survey results. Although these plans are not included with this report, it is clear that many of the conclusions have been derived from a study of them.

Respectfully submitted,



Michael Ogden

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL  
TECHNICAL DATA STATEMENT

RECEIVED

DEC 14 1973

PROJECTS  
SECTION

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 GEOLOGICAL  
Township or Area SHAKESPEARE  
Claim holder(s) ANDY BYBERG OF  
RR-1 NEW LISKEARD  
Author of Report MICHAEL OGDEN  
Address RR-1 STONCEVILLE, ONT.  
Covering Dates of Survey OCT. 30 TO DEC 10, 1973  
(linecutting to office)  
Total Miles of Line cut NIL

MINING CLAIMS TRAVERSED  
List numerically

S-373462  
(prefix) (number)  
S-373463  
S-373464  
S-373465

SPECIAL PROVISIONS  
CREDITS REQUESTED

DAYS  
per claim

ENTER 40 days (includes  
line cutting) for first  
survey.  
ENTER 20 days for each  
additional survey using  
same grid.

Geophysical  
- Electromagnetic \_\_\_\_\_  
- Magnetometer \_\_\_\_\_  
- Radiometric \_\_\_\_\_  
- Other \_\_\_\_\_  
Geological 20  
Geochemical \_\_\_\_\_

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

Magnetometer \_\_\_\_\_ Electromagnetic \_\_\_\_\_ Radiometric \_\_\_\_\_  
(enter days per claim)

DATE: DEC. 12/73 SIGNATURE: Michael Ogden  
Author of Report or Agent

PROJECTS SECTION

Res. Geol. LD Qualifications 63A.383  
Previous Surveys 63.2908 Survey on Leased  
63.1091 claim only.  
Geophysical Surveys

Checked by \_\_\_\_\_ date \_\_\_\_\_

GEOLOGICAL BRANCH \_\_\_\_\_

Approved by \_\_\_\_\_ date \_\_\_\_\_

GEOLOGICAL BRANCH \_\_\_\_\_

Approved by \_\_\_\_\_ date \_\_\_\_\_

TOTAL CLAIMS 4



900

If space insufficient, attach list

OFFICE USE ONLY

DEC #188



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  
ANDY BYBERG J-5614  
name of Recorded Holder Miner's Licence  
RR-1 NEW LISKEARD, ONT.  
Post Office Address  
do hereby report the performance of 80 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
S-373463	20	NW 1/4 N 1/2 lot 4 Con 1			
S-373464	20	SW 1/4 N 1/4 Lot 4 Con 1			
S-373465	20	SE 1/4 N 1/4 Lot 5 Con 1 E			
S-373462	20	SW 1/4 S 1/2 lot 4 Con II			

All the work was performed on Mining Claim (s) AS ABOVE + 3110445 (LHASND)  
(In the case of geological and/or geophysical survey (s) where more than 18 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 Geophysical, Geological, Geochemical Surveys and Expenditure Credits - the name of author of report. Covering dates of survey (if recutting & office). Type of instrument used. Total amount of expenditure. Technical reports, maps, expenditure breakdown, receipts must be filed in duplicate 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)

THE GEOLOGICAL SURVEY WAS DONE BY MICHAEL OGDEN FROM OCT. 30 TO DEC. 10, 1973 AT A TOTAL COST (ALL 5 CLAIMS) OF \$1000.00  
DEC 17 1973

Date DEC 12, 1973

Michael Ogden  
Signature of Recorded Holder or Agent

The Mining Act  
Certificate Verifying Report of Work

I, MICHAEL OGDEN  
RR-4 STOUFVILLE, ONT.  
(Post Office Address)

hereby certify:

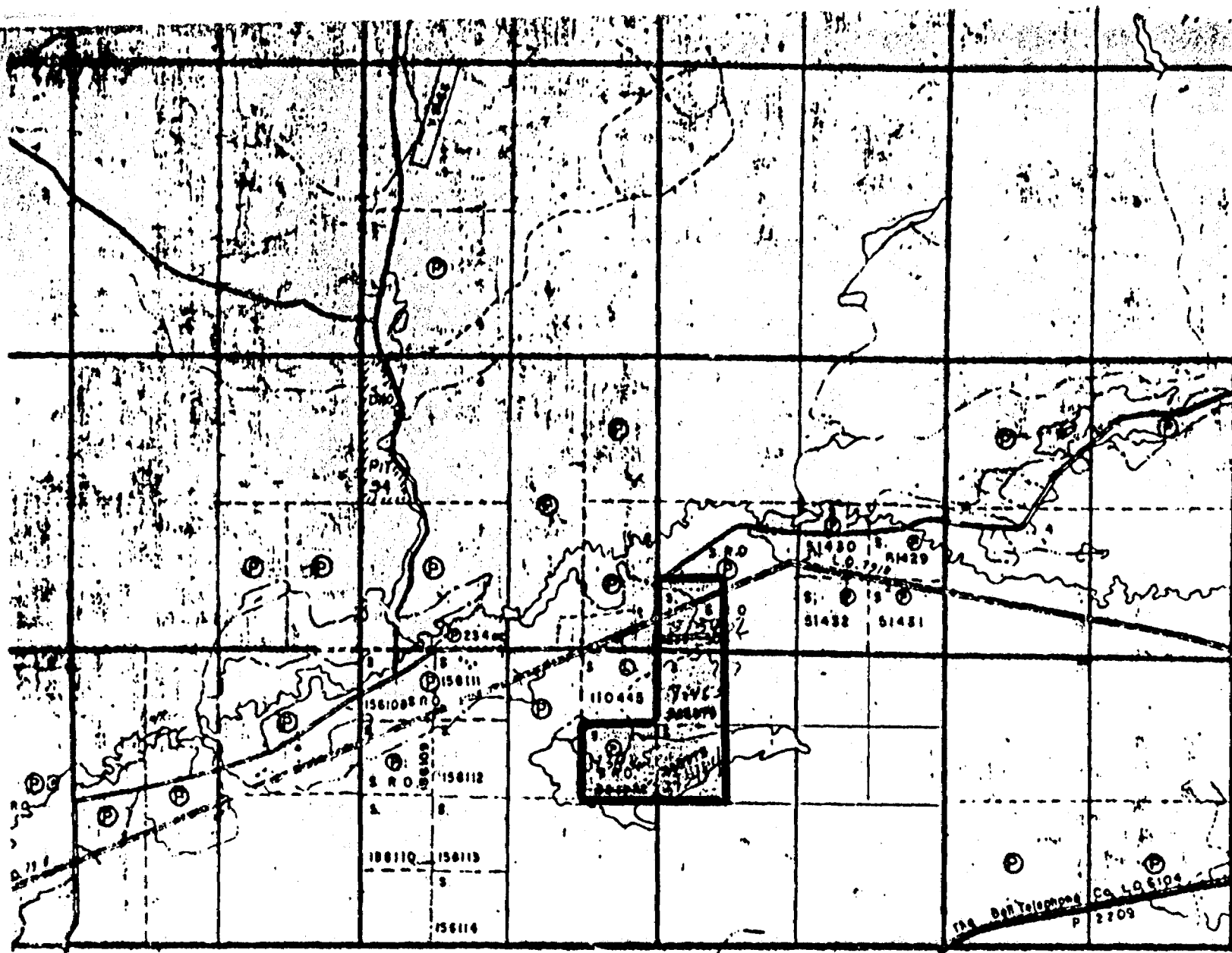
- That I have a personal and intimate knowledge of the facts set forth in the report of work annexed hereto, having performed the work or witnessed same during and/or after its completion.
- That the annexed report is true.

Dated DEC 12 19 73

Michael Ogden  
Signature

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



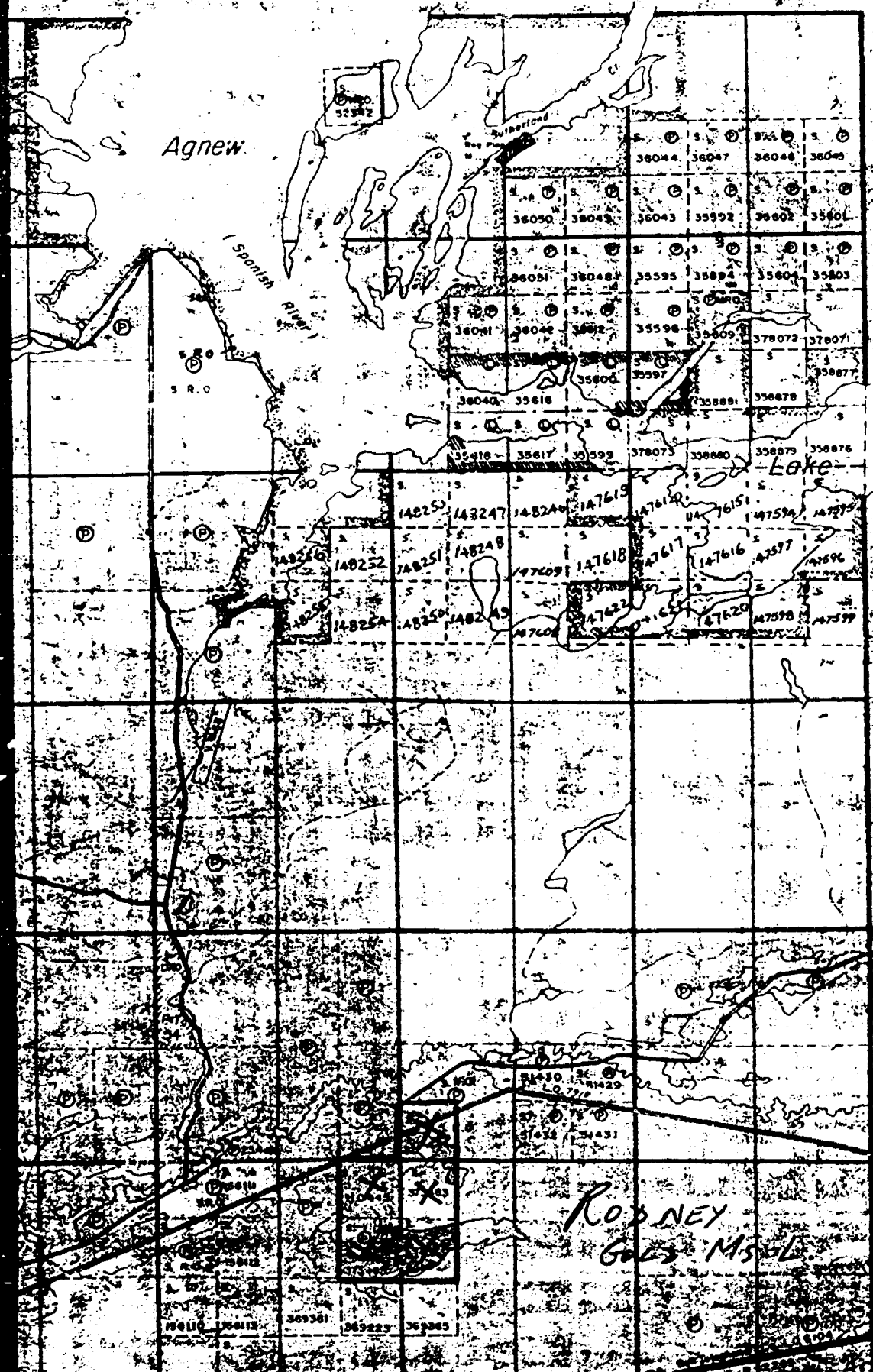


Baldwin Twp. U

Hallam Twp. (M.909)

PL  
MIN

Dunlop Twp. (M. 771)



# SHAKESPEARE

DISTRICT OF SUDBURY

SUDBURY 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
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED

### NOTES

- 400 SURFACE RIGHTS RESERVED AROUND LAKE AND RIVERS.
- AREA SHOWN IN THIS MAP IS FOR MINING CLAIMS WITHIN THIS AREA FOR MINING RIGHTS ONLY.

MINING LANDS  
 DATE OF ISSUE  
 DEC 17 1973  
 MINISTRY OF NATURAL RESOURCES

Baldwin Twp. (M. 645)

Rodney Gold Mine

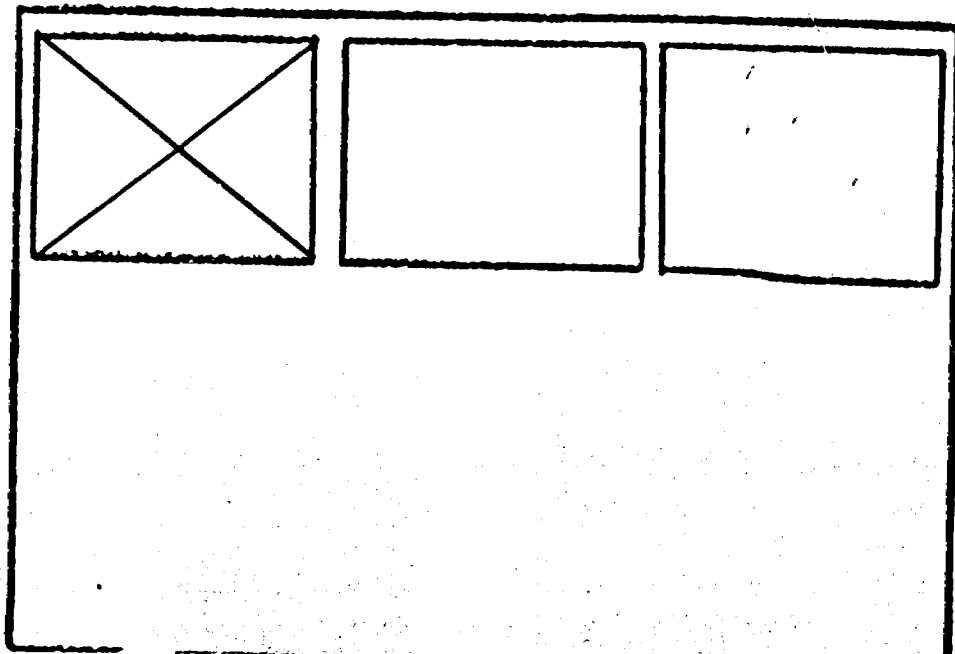
SEE ACCOMPANYING  
MAP(S) IDENTIFIED AS

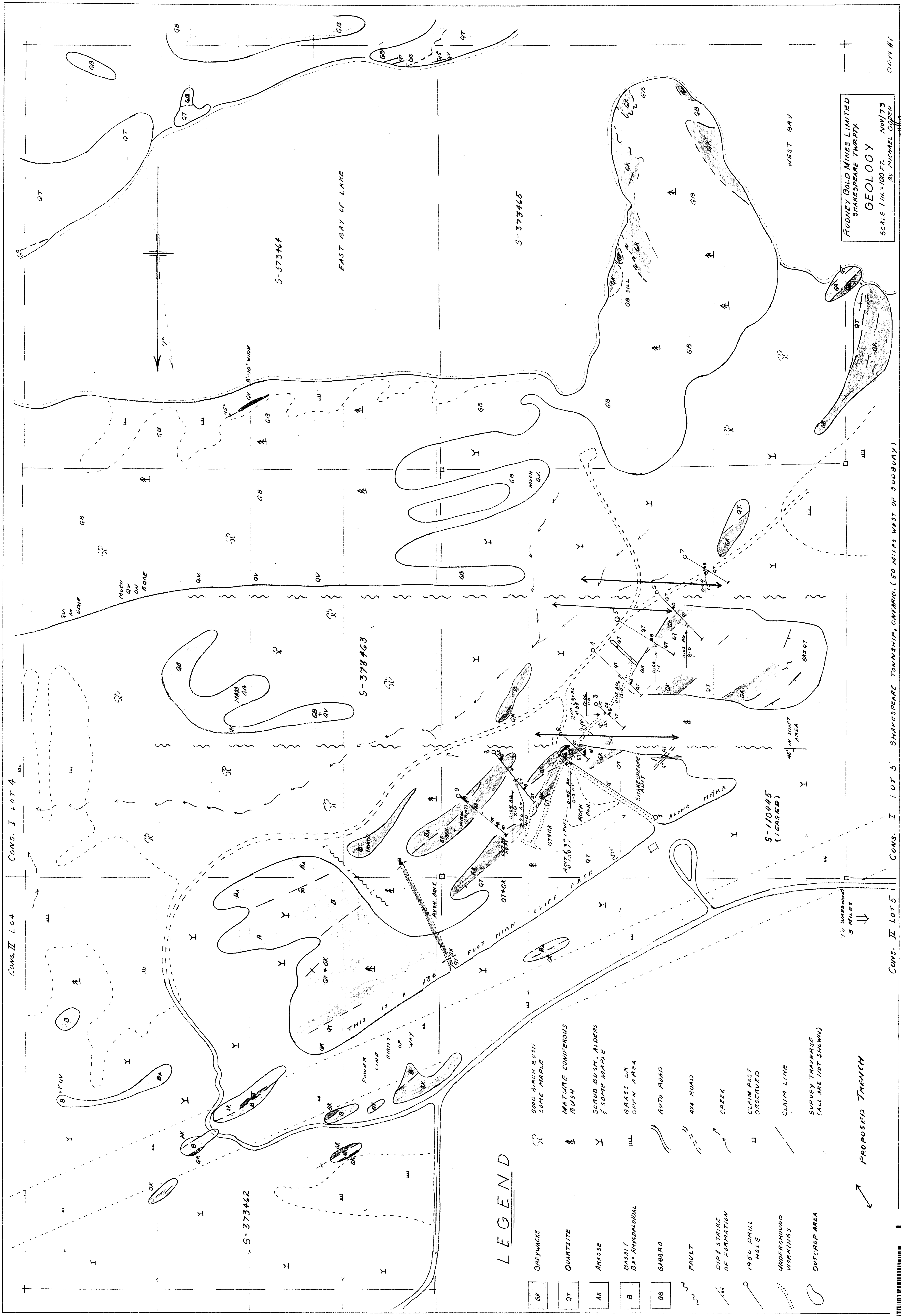
SHAKESPEARE - 0026-A1, #1

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

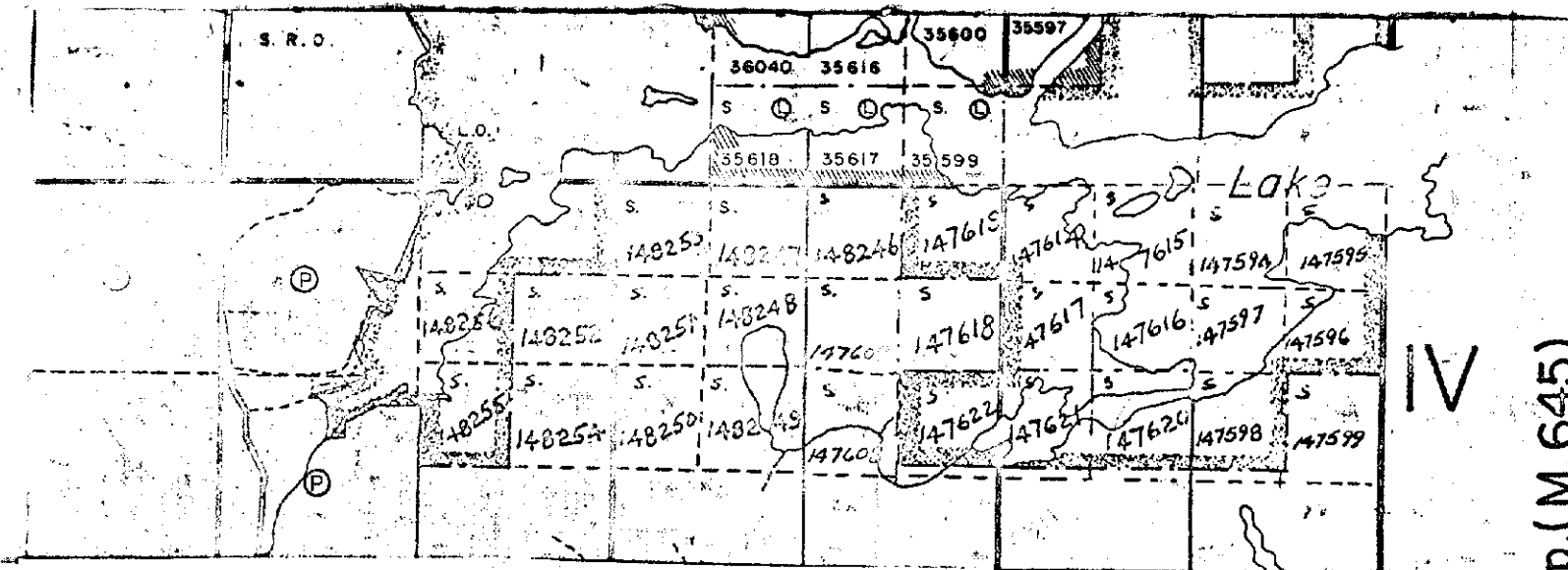




SHAKESPEARE - 0026-A1, #1

SHAKESPEARE TOWNSHIP, ONTARIO. (50 MILES WEST OF SUDBURY)

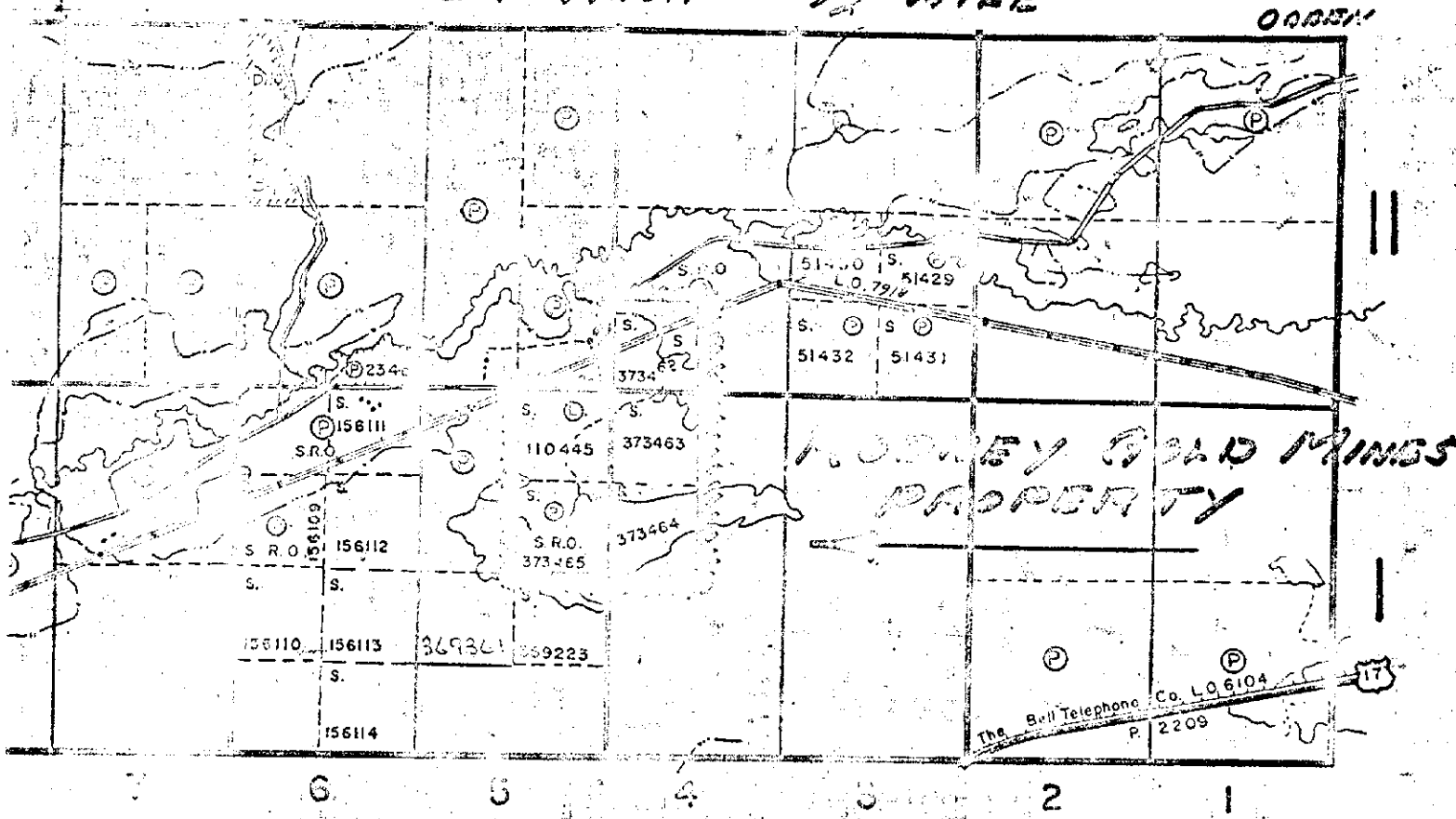




LOCATION KEY MAP

SOUTHEAST PORTION OF SHAKESPEARE TOWNSHIP  
 FROM CLAIM MAP NO. 9, OCT 31/73

SCALE: 1 INCH = 1/2 MILE



Baldwin Twp. (M. 645)

(M. 909)