



41114NE0032 0021A1 ROBERTS

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REPORT ON THE GEOLOGICAL SURVEY OF
MINERAL CLAIMS S-64824 TO S-64951 INCLUSIVE
ROBERTS TOWNSHIP - ONTARIO

FOR
ELBRIDGE MINES LIMITED

by

Sinard and Knight

Toronto, Ontario

December 31, 1954

REPORT ON THE GEOLOGICAL SURVEY OF
MINERAL CLAIMS 2-64834 to 2-64881 INCLUSIVE
ROBERTS TOWNSHIP - ONTARIO

PROPERTY, LOCATION, ACCESS

The property examined comprises eighteen unsurveyed and unpatented mineral claims situated in the north eastern part of Roberts Township Ontario. The claims are numbered 2-64834 to 2-64881 inclusive. They form a compact block being three claims wide in a north-south direction by six claims long in an east-west direction.

The area is situated approximately twenty-two miles north from the town of Capreol on the Canadian National Railway line. This line passes across the easterly part of the property. Access is by means of a local train which uses this line on runs to and from Capreol on alternate days. A hydro-electric power line passes approximately three miles to the west.

The Vermilion River flows in a southerly direction through the eastern portion of the property averaging perhaps 500 feet wide. Roberts Lake, a body of water elongated in a north-south direction, is situated on the western part of the mapped area. Two smaller lakes or ponds lie on the property between the Vermilion River and Roberts Lake.

The area is gently rolling with the more important elevations being due to large outcrop areas. The most striking of these is situated to the east of the Vermilion River where outcrops rise for about 100 feet above the surrounding terrain. Growth is predominantly jackpines with scattered spruce and birch.

PURPOSE OF THE SURVEY

The survey was conducted as a preliminary means to investigate the mineral potential of the property.

REGIONAL GEOLOGY

The property is situated on the south westerly rim of what appears to be a large sedimentary basin, somewhat circular in its surface exposure. This sedimentary area in which outcrop exposures are predominantly of the Cobalt group, has been traced to the south as far as Scadding, Davis and James Townships, eastward through the Cobalt area into the Province of Quebec and northward to Darnestown, Fewell and Cairo Townships.

Within this area, erosion has exposed the underlying Proterozoic granitic basement rock in many places. The sedimentary formations have been intruded throughout the basin area by sills and dykes of quartz diabase.

PROPERTY GEOLOGY

The property is underlain by quartzite of Huronian (possibly Gowanda and Lorrain) age. Among exposures found on the property some areas, notably in the north-east corner on Claim S-64843, were of an impure variety being somewhat calcareous.

Scattered conglomerate horizons are found within the quartzites. These appear to be conformable as to strike and dip. The conglomerates consist of a quartzitic matrix containing large pebbles and boulders composed predominantly of granitic material and to a lesser extent quartz pebbles.

The largest exposure of conglomerates occurs in a railroad rockcut close to the west shore of the Vermilion River on claims S-64844 and S-64847. The exposure is about 1000 feet in length and upward of 80 feet wide. Other conglomerate outcrops are found as follows:

- (a) straddling the common boundary between claims S-64845 and S-64848.
- (b) in the north western part of claim S-64835.
- (c) along the west shore of Roberts Lake on claim S-64841.
- (d) in the southwest, south, east and north east parts of claim S-64842.

Several outcrops of arkose are found in the south eastern part of the property on claim S-64867.

MINERALIZATION

Sulphide mineralization has been found in three places on the property. The conglomerates in the railroad cut along the west shore of the Vermillion River is well mineralized with pyrite and pyrrhotite throughout. These rocks are also somewhat radioactive with the entire mass registering something over three times normal background on a geiger counter.

A second mineralized area is found, centrally situated on mineral claim S-64851 along the south shore of a small pond. In this area, small patches of conglomerate are found in the quartzite host. The quartzite is cut locally by small quartz stringers, containing minor amounts of molybdenite in the slip planes. Low radioactivity is found in the conglomerates at the westerly end of this area, with much stronger indications of radioactive mineralization in the vicinity of the trench "B" at the east end of the area.

Finally quartz boulders containing chalcopyrite were found on the east side of a small lake in the north western part of claim S-64850. Two small pits located here by previous owners, failed to reveal similar mineralized material in place.

APPENDIX

The property was prepared for mapping by cutting two north-south trending base lines. One of these is centrally located while the second was placed to the west of Roberts Lake. These base lines served as a control for a series of east west trending picket lines placed at intervals of approximately 400 feet on the property. The lines out to the east of the Vermillion River were lined up by sighting on the pickets at the ends of the picket lines on the west shore of the river. All lines were measured and marked chainage pickets

were placed at intervals of 100 feet.

Pertinent field data including claim post locations, outcrops, swamp lake and river outlines were located with respect to chainage markers on the picket lines by pace and compass methods. All outcrops located by the survey were tested with a geiger counter for the presence of radioactivity. This aforementioned field data has been plotted on the accompanying plan whose scale is 1 inch equals 200 feet.

Length of picket lines cut	9,500 feet
" " base " "	<u>71,600 "</u>
Total	81,100 feet

SUMMARY OF ASSESSMENT WORK

<u>Claim No.</u>	<u>Days Credit Requested for Geological Mapping</u>
S-64834	40
64835	40
64836	40
64837	40
64838	40
64839	40
64840	40
64841	40
64842	40
64843	40
64844	40
64845	40
64846	40
64847	40
64848	40
64849	40
64850	40
64851	<u>40</u>
Total	720

Line Outting and Chaining

Jonas Merew - Tweed, Ontario
Frank McDowell - 415 Trout Lake Rd., Lockport, Ontario
Period - October 28 to November 30, 1974.

Geological Mapping - Field Work

R.M. Lewis - Sudbury, Ontario
W.L. Huns - Sudbury, Ontario
Period - October 25 to November 30, 1954

Harold Barry, Allan Barry - R.R. No. 1, Sudbury Junction, Ontario
Period - November 8 to 10 inclusive, 1954.

Tom McKee - Mileage 21.5 - Capreol, Ontario
Period - November 4 to 15 inclusive, 1954.

Louis Asselin - Sudbury, Ontario
Period - November 8 to 20 inclusive, 1954.

Draughting, Reports, etc.

Sinard and Knight, 403 - 25 Adelaide St. W., Toronto, Ontario

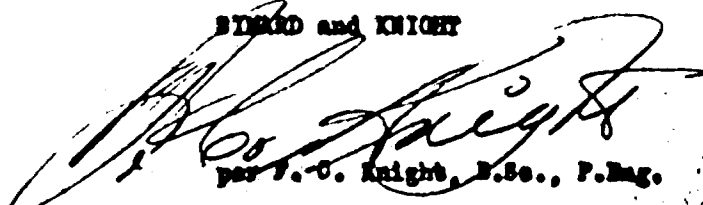
Breakdown

<u>Days</u>	<u>Hrs/day</u>	<u>Total Hrs.</u>	<u>Factor</u>	<u>Total Hrs. x Factor</u>	<u>Net Days 8 hrs. each</u>
<u>Line Cutting and Chaining</u>					
70	8	560	x 4	2240	280
<u>Geological Mapping - Field Work</u>					
110	8	880	x 4	3520	440
<u>Reports, etc.</u>					
		40	x 4	160	<u>20</u>
				Total	740

Apportionment of Work

Total days - 750
Total claims - 18
Days per claim - $740 \div 18 = 41$
Days requested per claim - 40

Toronto, Ontario
December 31, 1954.

SINARD and KNIGHT

per F.C. Knight, B.Sc., P.Eng.

Beaumont Twp M 655

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OF

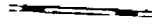
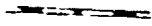


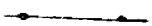



ROBERTS

DISTRICT OF
SUDBURY

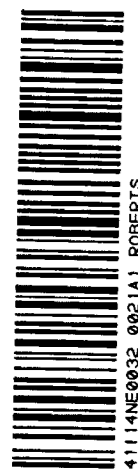
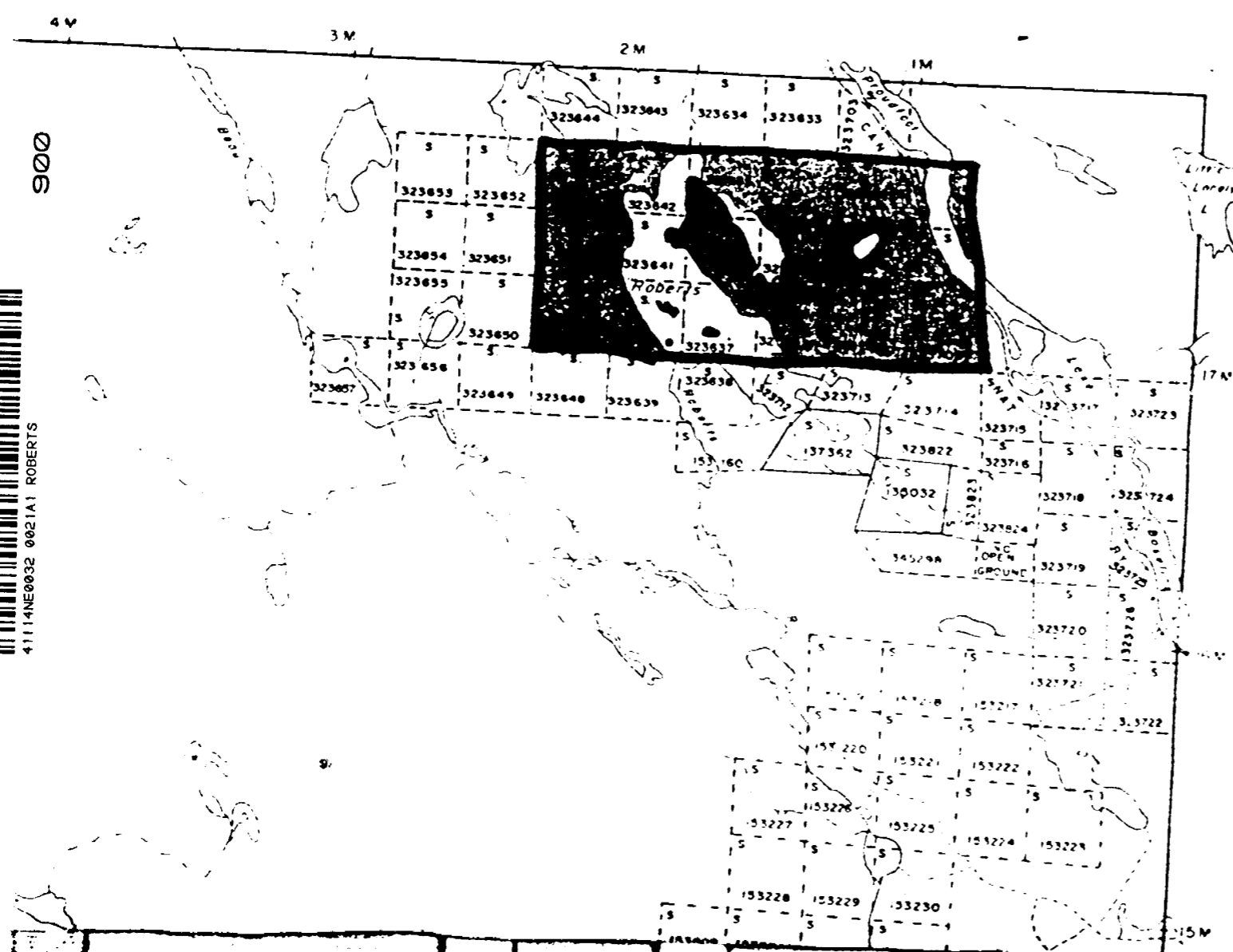
SUDBURY
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND Ⓟ
- CROWN LAND SALE C.S.
- LEASES Ⓛ
- LOCATED LAND Loc.
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY MRO
- SURFACE RIGHTS ONLY SRO
- ROADS 
- IMPROVED ROADS 
- KING'S HIGHWAYS 
- RAILWAYS 
- POWER LINES 
- MARSH OR MUSKEG 
- MINES 
- CANCELLED 

Twp. M. 737

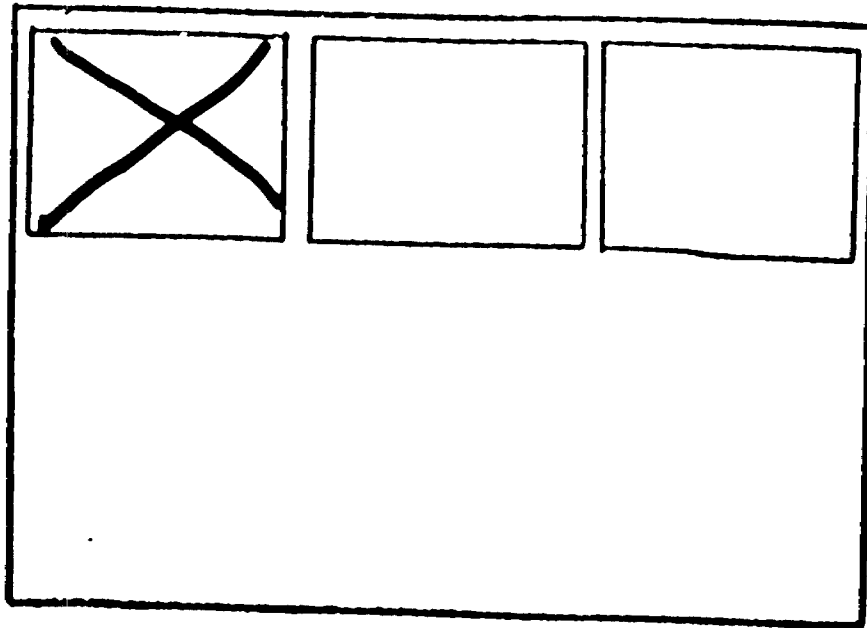


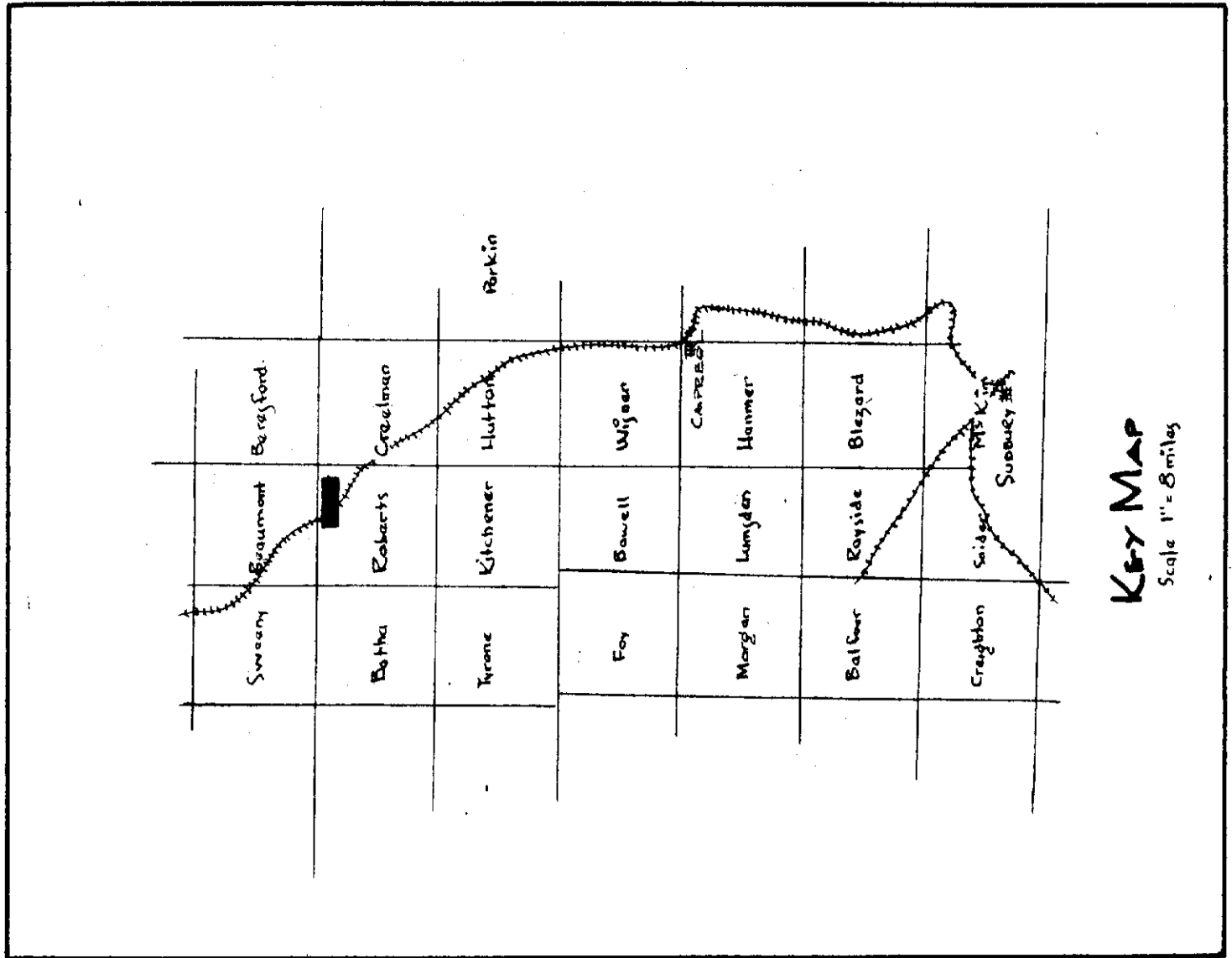
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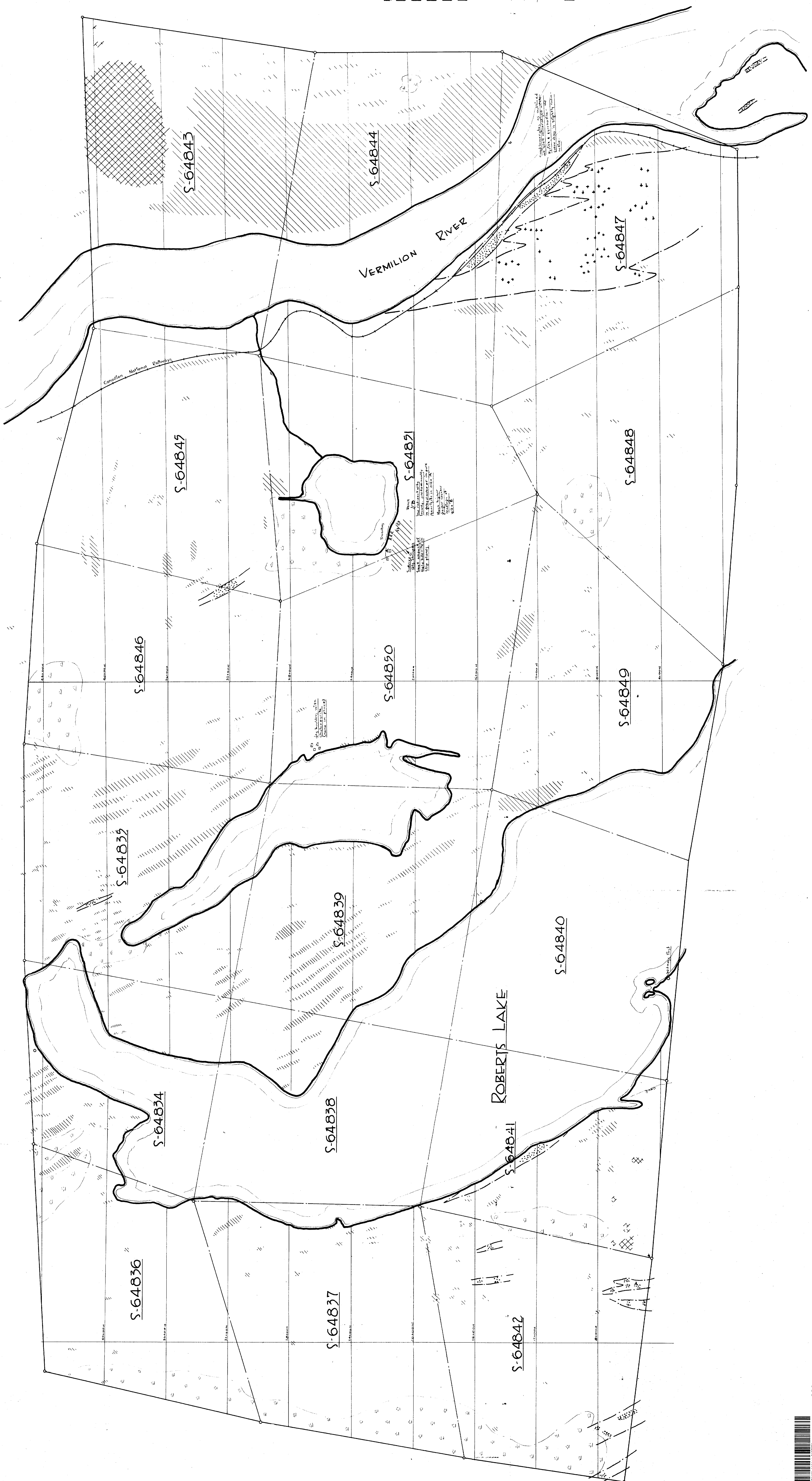
SEE ACCOMPANYING
MAP(S) IDENTIFIED AS
ROBERTS-0021-A1-#1

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





- Legend**
- arise
 - conglomerate
 - quartzite
 - impure quartzite
 - swamp
 - creek
 - railroad
 - geological contact (inferred)
 - claim post & claim line
 - picket line
 - radioactive mineralization
- Note:** outcrop areas shown hatched



ELMIRIDGE MINES LIMITED
 Roberts Township Sudbury Mining Division Ontario

SURFACE PLAN

Scale - Feet

ROBERTS-0021-A1-#1