



52F05SE0141 2.852 ROWAN LAKE

Geophysical Survey Report  
Zahavy Mines Limited  
Beggs Lake Property  
Kenora Mining Div. - Ontario.

Description

The property comprises of twenty-eight unsurveyed mining claims located at Beggs Lake, Rowan Lake Area, Kenora Mining District, Ontario.

The property is readily accessible via a short aircraft flight from Nestor Falls, a small tourist settlement mid-way between the towns of Fort Frances and Kenora.

Claim No's as follows:

325237 to 325262 incl.

302984 and 302985 (28 Claims)

The geophysical survey, magnetic and electromagnetic, was carried out over the entire property.

General Geology

The consolidated rocks in the Rowan Lake Area comprise of the following; Basaltic and Andesitic Massive Lava, Pillow Lava, Tuff, Agglomerate, Hornblende and Chlorite Schist.

Basic and ultra-basic igneous rocks, mainly of gabbroic composition. Granite and related rocks. Metasediments, possibly gregwacke, occurs throughout the general area.

General Geology, cont'd.

Structural features include numerous major and minor faulting with abundant lineaments, suggesting a major folded structure, the base of which may possibly lie within the Beggs Lake claim group.

Numerous varieties of economic minerals occur throughout the area, including mainly, gold, nickel, copper and zinc.

Geophysical

A base line was laid out and cut across the central part of the property in an east-west direction for a distance of 8800 feet.

Picket lines were turned off in a north-south direction every 400 feet along the base line and were cut and chained to the respective claim boundaries. (See map accompanying this report). A total of 30.5 miles of lines were established.

Magnetometer Survey.

A magnetometer survey was carried out over the entire property employing a Sharpe's fluxgate MF-1 magnetometer. Readings were taken every 100' (in some cases every 50') along picket lines.

The results of the survey were plotted and contoured on a map to a scale of one inch equals 200 feet. (A copy of which accompanies this report.)

Magnetometer Survey, cont'd.

The magnetic data reveals a fairly high isolated anomalous trend through the west central part of the property. Some of the magnetic features coincide with rusty sheared outcrops where known gold occurrences exist, mainly on claims 325241 and 325249.

Due to snow conditions on the ground at the time of the survey, it was not possible to observe all rock types where magnetic anomalies occurred.

Magnetic readings in gammas were recorded with a sensitivity of 10 gammas per scale division.

Electro-magnetic Survey

The electromagnetic survey was carried out employing a Sharpe's SE 200 portable vertical-loop instrument. The parallel method was used whereas the transmitter and receiver operators are positioned on parallel picket lines with a 400' separation, opposite each other. Readings were taken every 100'. Results were plotted to the left of the picket lines as shown on the accompanying map.

Summary & Conclusion

The EM data revealed weak to negative readings over the property. This is understandable due to the disseminated nature of the known sulphide deposits in the immediate area. Also, the overburden appears to be quite thick in some parts, particularly the western portion of the property.

Summary & Conclusion, cont'd.

The fairly abrupt termination of the magnetic feature at the central portion of the property suggests a folded structure with the axis roughly paralleling the base line and in a general east-west direction.

If this theory has any basis of fact, the nose of the fold would be in the vicinity of Lines 28W and 36W.

Fairly extensive diamond drilling has been carried out in past years, along what is assumed to be the limbs of a folded structure where highly interesting gold values occur. The magnetic features appear to be very closely related to these mineral occurrences, therefore it is recommended that the following locations be drilled to determine whether any commercial deposits exists.

D.D.H. No. 1      L-28W, at Base Line. Direction South.  
Dip 45°. Length 500'.

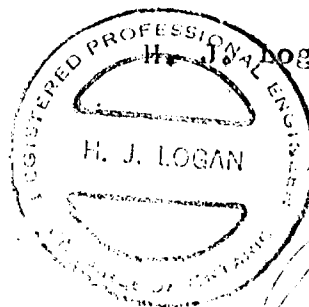
D.D.H. No. 2      L-20W. 1000' S of Base Line. Direct. South.  
Dip 45°. Length 350'.

D.D.H. No. 3      L-12W. 600' N of Base Line. Direct. South.  
Dip 45°. Length 350'.

The results of these drill holes should be used as a basis as to whether any further work is warranted.

Respectfully submitted,

Rouyn, Quebec.  
April 10th, 1972.



GE



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900

KENORA MINING DIV.

RECEIVED

MAY - 3 1972

8 9 10 11 12 1 2 3 4 5 6 PM

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 Geophysical  
Township or Area Rowan Lake Area, Kenora District.  
Claim holder(s) Zahavy Mines Ltd.  
55 York St., Toronto, Ontario.  
Author of Report H. J. Logan, P.Eng.  
Address 84 Main St., Rouyn, Quebec.  
Covering Dates of Survey March 12/72 to April 10/72  
(linecutting to office)  
Total Miles of Line cut 30.5

MINING CLAIMS TRAVERSED  
List numerically

<u>1/3 covered</u> 325237	325258
<u>1/3</u> (prefix)	(number)
325238	325259
<u>1/3</u>	
325239	325260
325240	325261
325241	325262
325242	302984
325243	302985
325244	
325245	
325246	
325247	
325248	
325249	
325250	
325251	
325252	
325253	
325254	
325255	
325256	
325257	

SPECIAL PROVISIONS  
CREDITS REQUESTED

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

Geophysical  
--Electromagnetic 40  
--Magnetometer 20  
--Radiometric \_\_\_\_\_  
--Other \_\_\_\_\_  
Geological \_\_\_\_\_  
Geochemical \_\_\_\_\_

Days per claim at 90

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

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

DATE: April 15/72 SIGNATURE: John Casey  
Author of Report or Agent

PROJECTS SECTION

Res. Geol. Kenora Qualifications on this file  
Previous Surveys LD

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

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

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

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

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

TOTAL CLAIMS 28

OFFICE USE ONLY

~~28 x 40 = 1120 ÷ (25 + 1) = 44.8  
326 days per claim~~

If space insufficient, attach list

Show instrument technical data in each space for type of survey submitted or indicate "not applicable"

### GEOPHYSICAL TECHNICAL DATA

#### GROUND SURVEYS

Number of Stations 1615 Number of Readings 1669  
Station interval 100' (Some intermediate readings)  
Line spacing 400'  
Profile scale or Contour intervals Contour base 600 gammas  
(specify for each type of survey)

#### MAGNETIC

Instrument Sharpe MF-1 Fluxgate  
Accuracy - Scale constant 10 gammas per scale division  
Diurnal correction method Check-in time 2 hour intervals  
Base station location 0-00, 8E, 16E, 8W, 16W, 24W, 32W, 40W, 48W, 56W, 64W

#### ELECTROMAGNETIC

Instrument Sharpe SE-200 Vertical Loop (Portable)  
Coil configuration Broadside method  
Coil separation 400'  
Accuracy 1° dip angle  
Method:  Fixed transmitter  Shoot back  In line  Parallel line  
Frequency 1250 cps  
(specify V.L.F. station)

Parameters measured \_\_\_\_\_

#### GRAVITY

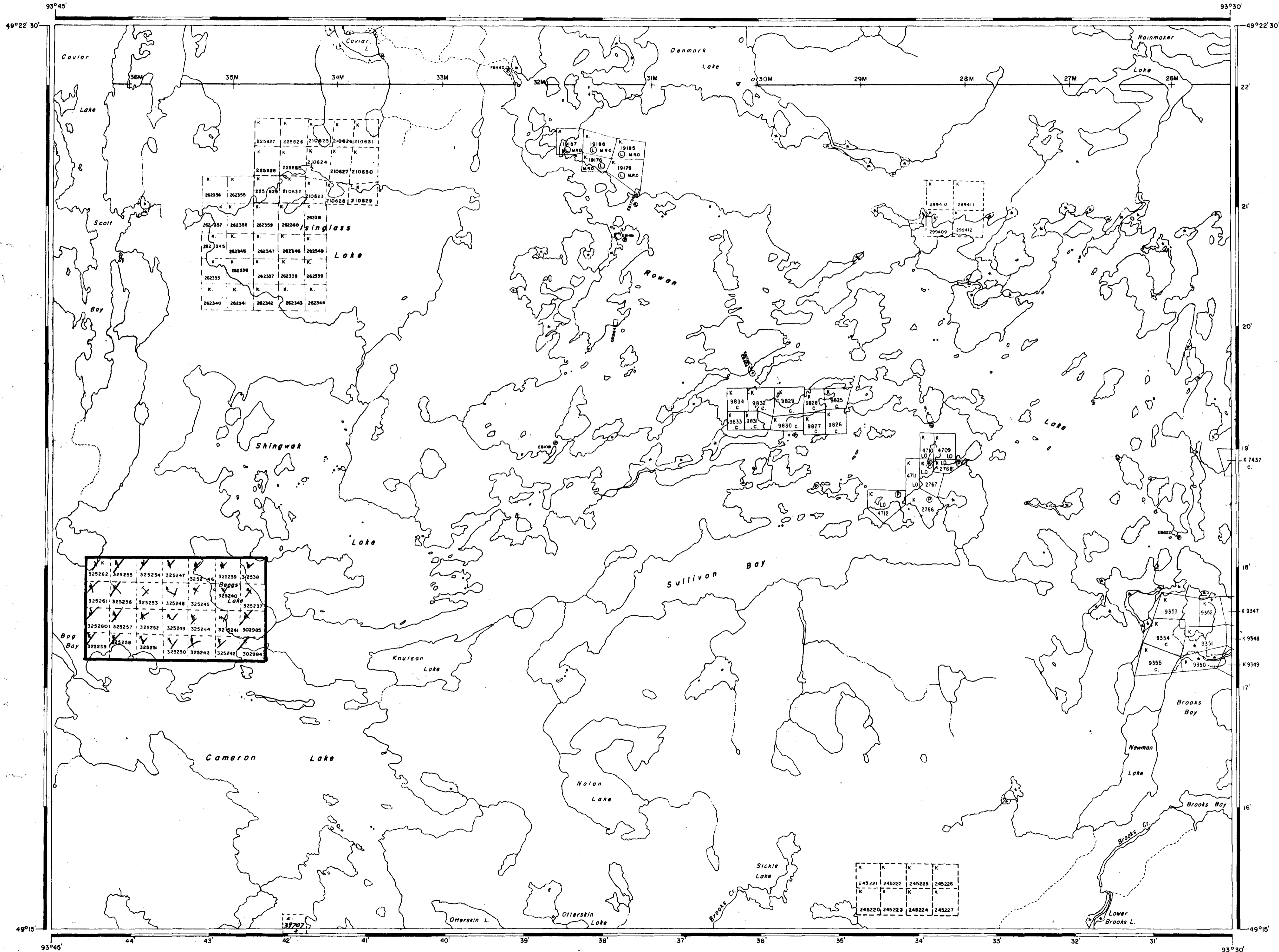
Instrument \_\_\_\_\_  
Scale constant \_\_\_\_\_  
Corrections made \_\_\_\_\_

Base station value and location \_\_\_\_\_

Elevation accuracy \_\_\_\_\_

#### INDUCED POLARIZATION - RESISTIVITY

Instrument \_\_\_\_\_  
Time domain \_\_\_\_\_ Frequency domain \_\_\_\_\_  
Frequency \_\_\_\_\_ Range \_\_\_\_\_  
Power \_\_\_\_\_  
Electrode array \_\_\_\_\_  
Electrode spacing \_\_\_\_\_  
Type of electrode \_\_\_\_\_



AREA OF  
**ROWAN LAKE**  
 DISTRICT OF  
 KENORA  
 KENORA  
 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	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	—
IMPROVED ROADS	—
KING'S HIGHWAYS	—
RAILWAYS	—
POWER LINES	—
MARSH OR MUSKEG	—
MINES	—
CANCELLED	C

**NOTES**  
 400' Surface Rights Reservation around  
 all lakes and rivers.

2.852

NATIONAL TOPOGRAPHIC SERIES 52 F 5  
 PLAN NO. **M.2580**  
 ONTARIO  
 DEPARTMENT OF MINES  
 AND NORTHERN AFFAIRS





**GEOPHYSICAL SURVEYS**  
**ZAHAVY MINES LTD**  
**BEGGS LAKE GROUP**  
 KENORA MINING DISTRICT  
 SCALE: 1" = 200'  
 DATE: APRIL 1972

