



52J02SE8651 2.14053 SQUAW LAKE

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2.14053

MINING AND PHYSICAL SURVEY

ON THE

NORMAN LEE PROPERTY

East side of Sturgeon Lake

Section 14-3140

County of Sturgeon Division

of the

RECEIVED

APR 16 1991

MINING LANDS SECTION

MINING RECORDER
PATRICIA
MINING DIVISION

91 MAR 22 P4:18

prepared by:

*Read
this report*

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MAPS

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VLF Survey

in pocket

INTRODUCTION

Mr. Norman Lee of Sioux Lookout holds a block of six claims near East Bay of Sturgeon Lake. A VLF survey was conducted over these claims. This report documents the results of that survey and recommendations.

LOCATION AND ACCESS

The property is located on the north shore of the central part of East Bay of Sturgeon Lake.

Access is by way of Great Lakes Paper camp 700 road that starts 1 mile south of the village of Savant Lake. From the camp 700 road an old road and trail accesses the north boundary of the property.

Alternate access is by boat from one of the several tourist camps on the west side of Sturgeon Lake. Winter access is by snowmobile.

Savant Lake is located in Northwestern Ontario, 75 miles north of Ignace, Ontario via paved Hwy 599. Ignace is approx. half way between Thunder Bay and Winnipeg.

CLAIMS

The property consists of six mining claims numbered:

Pa 1124731 to Pa 1124736 inclusive.

The claims are owned by Norman Lee of Sioux Lookout, Ontario.

PREVIOUS WORK

There is no record of the original trenching.

The following references of previous work were taken from the Ministry of Northern Development and Mines assessment files in Sioux Lookout.

Amax did an airborne mag survey in Aug. & Sept of 1969 that included the area of the claims.

Sherritt Gordon Mines optioned the property from Stan Johnson in 1981. A program of geological mapping was completed. In 1982 they conducted a program that consisted of cleaning out and assaying the old trenches.

In the fall of 1990 Norman Lee stripped and blasted the trenches. There is no report of assays from this work.

GENERAL GEOLOGY

The general geology of the area is shown on O.D.M. Preliminary Geological Map No. 842.

East-west trending felsic to mafic volcanic rocks are predominant. The local schistosity is north-south. Quartz veins of varying widths lightly mineralized with pyrite and chalcopryite are present.

ECONOMIC GEOLOGY

Numerous gold showings are in the area. Gold bearing quartz veins on this property are of interest. From previous mapping program these veins are of narrow widths and up to 4 feet wide. They are lenticular with a strike length of 200-400 feet and a NNE strike of 15 to 40 degrees. The wall rocks are silicified with up to 5% euhedral pyrite. There is no evidence of shearing.

Assay results from 165 samples by Sherritt Gordon Mines have produced numerous values in the .20 to .40 oz./ton range with a high of 1.15 oz./ton.

GEOPHYSICAL SURVEY

The survey was done Jan. 11 and 15/1991 by Ken Bernier on 3.8 miles of grid lines spaced 400 feet apart and picketed every 100 feet. A total of 210 readings were taken at intervals of 50 feet. The instrument used was a Geonics EM-16 using Cutler Maine for a signal. Readings were taken facing north.

The VLF survey indicated four parallel anomalies named "A" to "D". They appear to be structural in nature, being either faults or shear zones. Whether or not they are of any economic significance can only be determined by visual examination.

There is no anomalous expression over the area of the trenches. The grid seems to be about 45 degrees off. The base line should be oriented at 045 degrees true. The anomalies at 5N and 9N on line 0 are interesting because of the strength of the response. More lines to the north would be required to resolve their significance. They do seem to have a relationship to anomalies "B" & "C" even though they are truncated by no response on L4S.

CONCLUSIONS

A VLF survey seems to be of no value in tracing any extension of the known quartz vein system. What the survey does do though is indicate the general direction of the structural features over the claims and suggests a NE-SW direction from the trenches should be examined for quartz bearing outcrop.

RECOMMENDATIONS

Prospecting NE and SW of the trenched areas would seem to be the only practical way of extending the quartz vein zones. The area north east of the claim group should be examined in an effort to resolve the cause of the anomalies on line 0.

QUALIFICATIONS

The author of this report has been actively engaged in all aspects of the exploration industry since 1970. I have conducted and interpreted Mag., VLF and Max-Min surveys since 1975. I have also given instruction on geophysical surveys at Ministry of Northern Development and Mines prospecting courses.



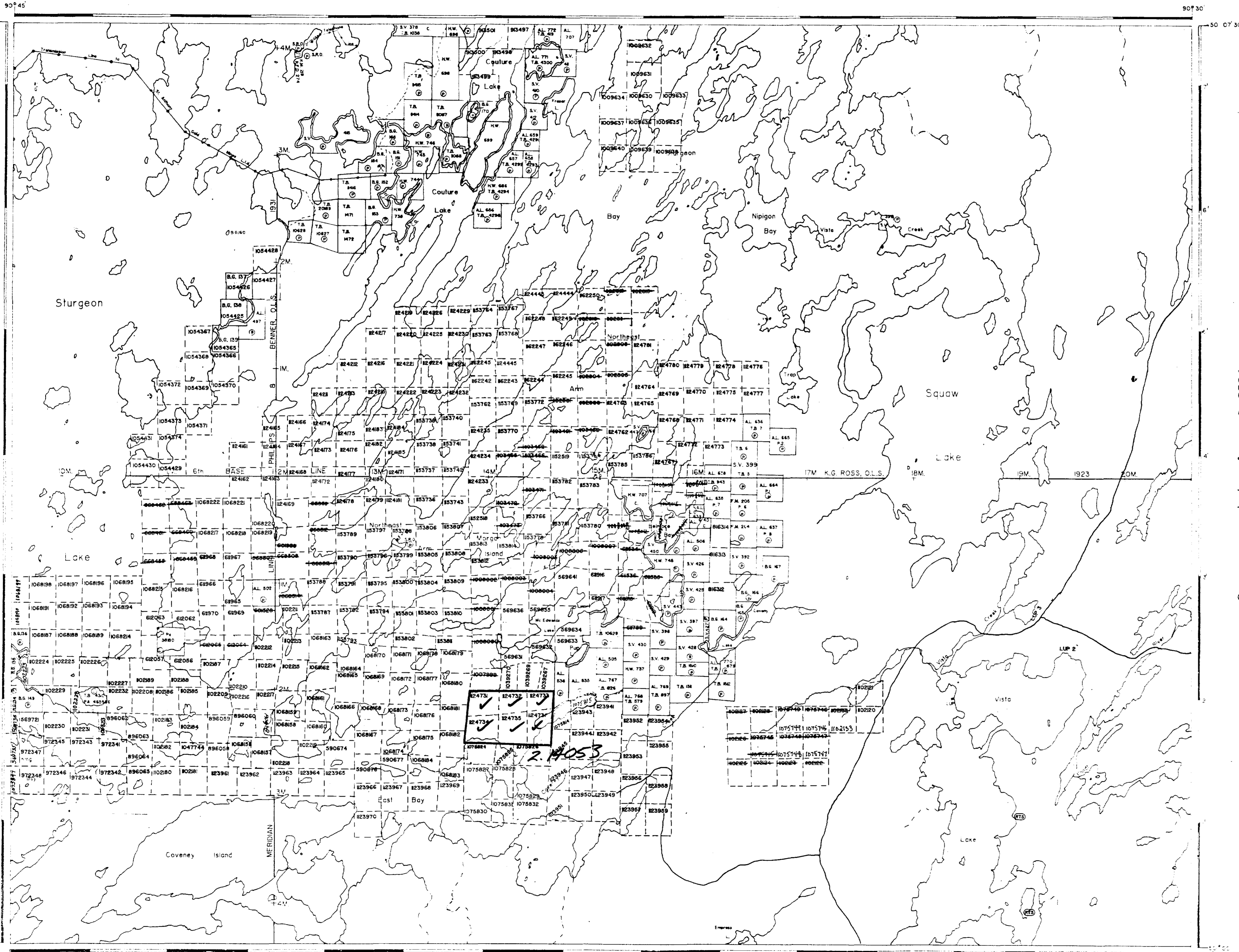
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OCT. 19/80
 Jan 14/81 R.C.
 Jan 23/81 C.
 Feb 04/81 C.
 March 13/81 C.

Beckington Lake Area G-2523

1071 10:15



LEGEND

- PATENTED LAND (C)
- CROWN LAND SALE (C.S.)
- LEASES (L)
- 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 LUP 1 (DOCKING SITE) (C)

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Disposition Order No. Date Disposition Fee

(RTS) REMOTE TOURIST SET-UP

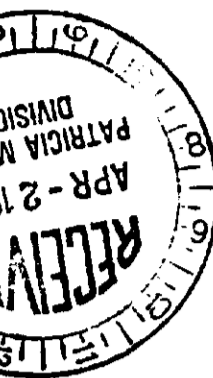
SQUAW LAKE

M.N.R. ADMINISTRATIVE DISTRICT
 IGNACE
 MINING DIVISION
 PATRICIA
 LAND TITLES / REGISTRY DIVISION
 THUNDER BAY

Ministry of Natural Resources
 Land Management Branch

Date FEBRUARY, 1984 Number

G-3140



Fourbay Lake Area G-2543

Sesegagan Lake Area G-2524

