



32D04NW0252 2.4035 LEBEL

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JUL 3 01981

MINING LANDS SECTION

LAMPE RESOURCE CO. LTD.

REPORT OF GEOPHYSICAL SURVEYS

LEBEL TOWNSHIP OPTION

SURVEYS & MAPPING
BRANCH
1981 07 29
RECEIVED
MINISTRY OF NATURAL RESOURCES

M. LEAHY
JULY, 1981.

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L.D

INTRODUCTION

LOCATION + ACCESS

Lampe Resource Co. Ltd. holds under option a group of 11 contiguous claims situated in central Lebel Township. The property lies south and east of the village of King Kirkland, approximately four miles east of Kirkland Lake. Highway 66 crosses the northerly claims and the Ontario Northland Railway traverses the southern claims. A secondary road from King Kirkland extends south to the O.N.R. and the King Kirkland shaft. A gravel road runs along the northern boundary of the group.

HISTORY

The Lampe property consists of parts of the former holdings of King Kirkland Gold Mines Ltd. and Lebel Oro Mines Ltd. Both properties were subjected to surface and underground exploration between 1920-1948. Two shafts are located within the present group.

In the fall of 1980 a program of trenching and sampling was conducted in the vicinity of the King Kirkland shaft by Lampe Resource Co. Ltd.

GEOLOGY

Most of the property is underlain by a felsic algomian intrusive termed 'porphyrite' a term which includes porphyry and those parts of the intruded country rock which have been porphyritized to such an extent that no definite contacts exist between them and the intrusive.

On the King Kirkland property gold was found in quartz veins cutting the porphyrite while on the Lebel Oro the contact between a body of undigested andesite and agglomerate and porphyrite was the

locus of the most encouraging values.

Alternating bands of Timiskaming sediments and volcanics with an east-west trend occupy the claims south of the railway.

Detailed geological descriptions of the property may be found in the Resident Geologists files in Kirkland Lake as well as in O.D.M. Bulletin 150, accompanying geological map number 53a and O.D.M. Circular No. 3.

GEOPHYSICAL PROGRAM

GENERAL

A control system of base and picket lines was cut on the property in May 1981. A base line was cut east-west between the north end of King Lake and the south end of Mud Lake. A parallel base line was cut from L2E + 18S to the west boundary of the group. North-south picket lines were cut at 400 foot intervals and stations were established every 100 feet. Baselines totalled one mile and picket lines totalled 9.15 miles.

The claims surveyed are numbered as follows:

L - 531082	L - 531040
L - 531083	L - 531042
L - 531084	L - 531043
L - 531691	L - 531044
L - 531755	L - 548487
L - 531765	

MAGNETIC SURVEY

A Sharpe MF-1 fluxgate magnetometer was used to read a total of 496 readings, some of which were taken at 50 foot intervals. Diurnal variation was recorded and corrections made before plotting.

ELECTROMAGNETIC SURVEY

A Geonics EM-16 VLF receiver was used to read a total of 404 stations. Transmitter used was Seattle, Washington at 18.6 KHz. North dips were recorded as positive and profiles plotted with a vertical scale of 1 inch = 50%.

RESULTS OF MAGNETIC SURVEY

Two anomalous highs within the porphyrite were found in the northern portion of the property. One is near the Lebel Oro shaft and the other is south of Mud Lake. Both the porphyrite and the varved graywache south of the railway show little magnetic variation. A long, narrow high along the south baseline appears to conform with the contact between the varved graywache and trachyte to the south. The tuff breccia and agglomerate south of the trachyte appear as a complex pattern of highs and lows.

RESULTS OF ELECTROMAGNETIC SURVEY

Interference from the numerous power lines traversing the property so distort the profiles that only the area south of the railway can be interpreted realistically. Only two positive crossovers occur - one on line 8W and the other line 16W. These weak conductors are underlain by trachyte and lie just south of the magnetic high along the north margin of the trachyte.

CONCLUSIONS AND RECOMMENDATIONS

The magnetic anomaly in the Lebel Oro shaft area appears to be caused by the undigested andesite and agglomerate associated with gold values in that area. The magnetic anomaly south of Mud Lake may be caused by a similar condition. Detailed magnetometer surveys with line spacings of 100 feet should be conducted to better outline these features. This work should be done during the winter so that readings may be taken over the parts of Mud Lake not covered by the present survey.

Since power line interference prevented the VLF survey from detecting known faults in the above mentioned area a further Electromagnetic survey is recommended. The system used should have a built-in 60 cycle filter to eliminate the power line interference. The two weak conductors south of the railway do not warrant further investigation at this time due to the fact that they are well removed from the known gold occurrences.

Since no geophysical anomalies were encountered in the King Kirkland shaft area a program of stripping, trenching, sampling and geological mapping is recommended to better evaluate the known veins there. Some surface work should also be done in the Lebel Oro shaft area.

Michael Leahy

M. LEAHY

JULY, 1981.



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GEOPHYSICAL - GEOLO
TECHNICAL DA



32D04NW0252 2.4035 LABEL

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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(s) ULF - EM
Township or Area LEBEL Tp.
Claim Holder(s) Lampe Resource CO. Ltd.
230 Bynq Ave. Willowdale, Ont.
Survey Company M. LEAHY
Author of Report M. LEAHY
Address of Author 24 Dixon Ave. Kirkland Lake, Ont.
Covering Dates of Survey June 2 - June 5 181
(linecutting to office)
Total Miles of Line Cut 10.15

MINING CLAIMS TRAVERSED	
List numerically	
(prefix)	(number)
L-	531691
L-	531082
L-	531040
L-	531765
L-	531042
L-	531043
L-	531044
L-	531083
L-	531084
L-	531755
L-	548487
TOTAL CLAIMS <u>11</u>	

If spec insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	Geophysical	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	-Electromagnetic	<u>20</u>
	-Magnetometer	_____
	-Radiometric	_____
	-Other	_____
ENTER 20 days for each additional survey using same grid.	Geological	_____
	Geochemical	_____

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

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Nov 5/81 SIGNATURE: Michael Leahy
Author of Report or Agent

Res. Geol. _____ Qualifications _____

<u>Previous Surveys</u>			
File No.	Type	Date	Claim Holder
			<u>H.O</u>

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

Number of Stations 404 Number of Readings 404
Station interval 100' Line spacing 400'
Profile scale 1" = 50%
Contour interval _____

MAGNETIC

Instrument ~~GEOONICS EM-16 ULF Receiver~~
Accuracy - Scale constant _____
Diurnal correction method _____
Base Station check-in interval (hours) _____
Base Station location and value _____

ELECTROMAGNETIC

Instrument GEOONICS EM-16 ULF Receiver
Coil configuration _____
Coil separation _____
Accuracy _____
Method: Fixed transmitter Shoot back In line Parallel line
Frequency 18.6 KHz
(specify V.L.F. station)
Parameters measured Dip + Quad.

GRAVITY

Instrument _____
Scale constant _____
Corrections made _____
Base station value and location _____
Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters - On time _____ Frequency _____
- Off time _____ Range _____
- Delay time _____
- Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

Morrisette Tp. (M.374)

THE TOWNSHIP
OF

LEBEL

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

DISPOSITION OF CROWN LANDS

- PATENT, SURFACE AND MINING RIGHTS
- " SURFACE RIGHTS ONLY
- " MINING RIGHTS ONLY
- LEASE, SURFACE AND MINING RIGHTS
- " SURFACE RIGHTS ONLY
- " MINING RIGHTS ONLY
- LICENCE OF OCCUPATION

- ROADS
- IMPROVED ROADS
- KING'S HIGHWAYS
- RAILWAYS
- POWER LINES
- MARSH OR MUSKEG
- MINES
- CANCELLED
- SURFACE RIGHTS
- MINING RIGHTS

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O.1970).

Order No.	File	Date	Disposition
(R)	165484	20/11/69	S.R.

SAND and GRAVEL

- (G) Gravel File 38581
- (G) Gravel File 8816
- (G) MTC Gravel Pit No 513
- (G) Gravel File 29795
- (G) Gravel File 42354
- (G) Gravel File 105110

2.4035

JAN 4 1982
Ministry of Natural Resources
TORONTO

PLAN NO. **M.359**

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

Teck Tp. (M.392)

Gauthier Tp. (M.350)

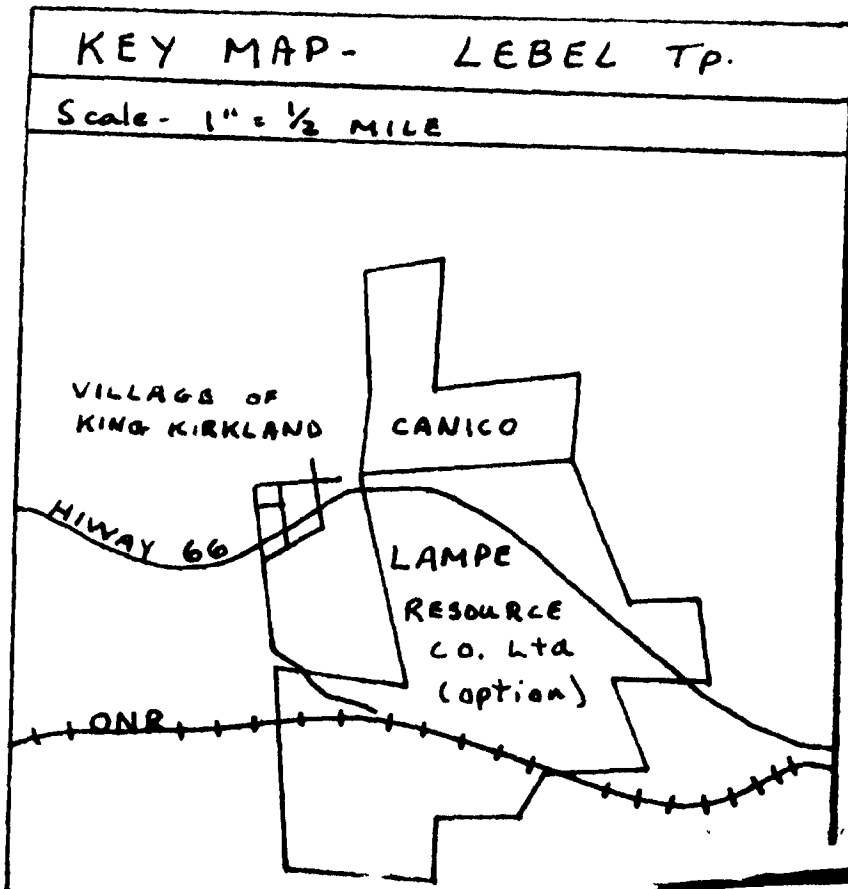
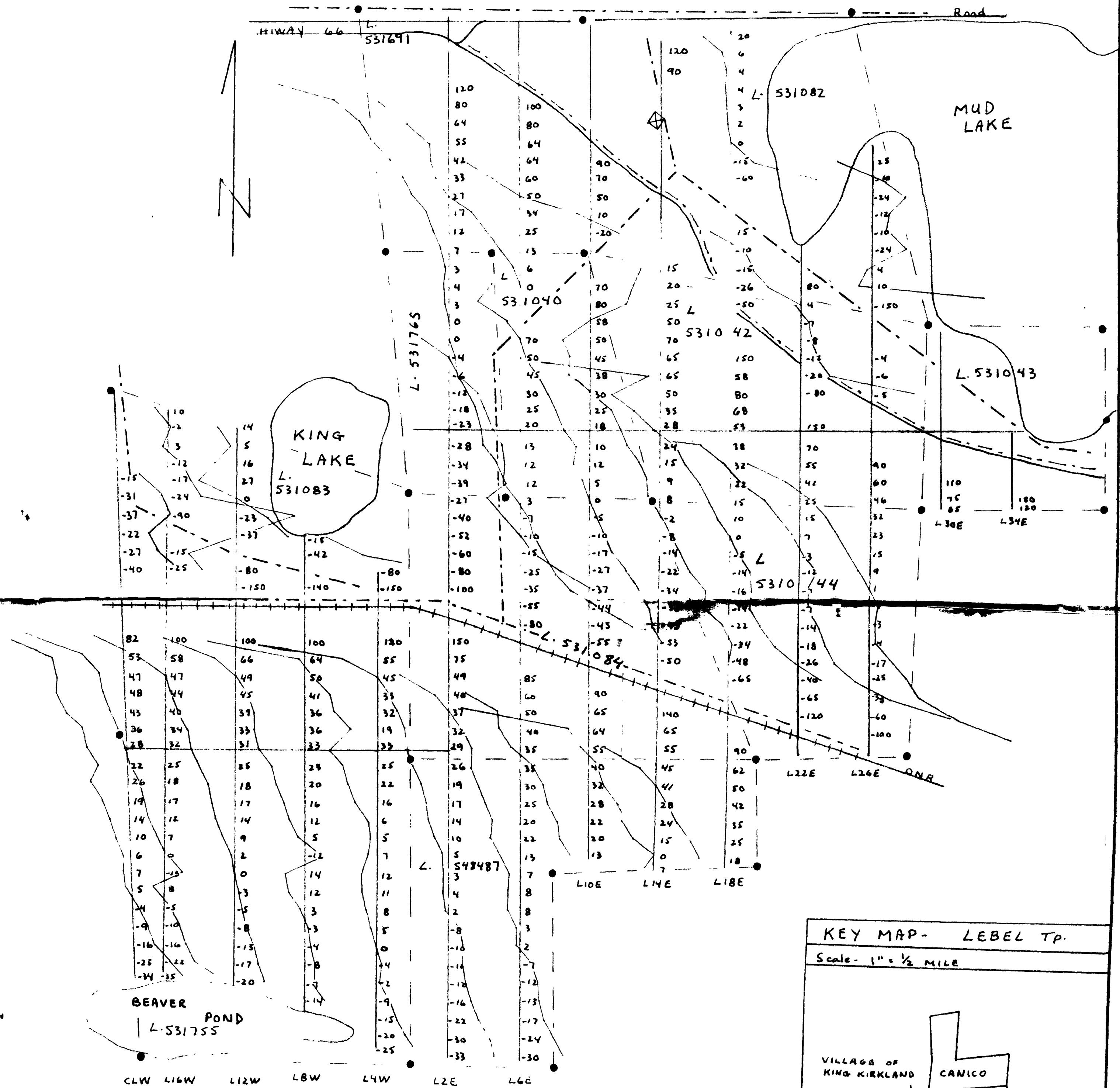
Boston Tp. (M.332)



VLF-EM SURVEY
 LAMPE
 RESOURCE CO. LTD.
 LEBEL T_p Option

SCALE - 1" = 400'

--- Power line
 Vert. Scale - 1" = 50%
 North dip +
 + Plotted left
 - Plotted right
 ☒ TRANSFORMER STN.



Michael Leahy July, 1981

