



42A01NE0089 2.10204 LEBEL

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REPORT ON  
MAGNETIC SURVEY  
EAST BLACK PROPERTY  
LEBEL TOWNSHIP  
LARDER LAKE MINING DIVISION  
ONTARIO

MICHAEL LEAHY

JULY, 1987

**RECEIVED**  
JUL 14 1987  
MINING LANDS SECTION

*Qual.*  
*2.2689*

INTRODUCTION: The property herein described consists of two contiguous unpatented claims located at the center of the west boundary of Lebel Township, Larder Lake Mining Division, Ontario. The property lies on the eastern outskirts of the town of Kirkland Lake about 3,000 feet south of Highway 66 and the Toburn Mine property. Two powerlines, one along the township line and the second along the central claim line, traverse the property. The total area covered by both claims is about 50 acres. The claims are numbered as follows: L-893697 and L-893818.

ACCESS: The property is accessible from the parking lot of the Kirkland Lake Community Complex, situated in the south-east section of the townsite of Kirkland Lake, off of Allen Avenue. The #4 post of L-893697 lies about 50 feet south of the cross-country ski trail as it emerges onto the powerline, approximately 500 feet from the parking lot.

HISTORY: The claims were mapped at a scale of 1" = 1000' from 1936- 1939 and appear on coloured geological map #53a, 1944 which accompanies the report covering the township. An airborne mag. and EM survey funded by The OGS [Map P2264] covers all of Lebel Township. Some old trenches were found by the author; but to his knowledge no further work has been done on the property.

GEOLOGY:

The claims are underlain by steeply dipping Timiskaming sediments including conglomerate, graywacke and tuffaceous rocks. The tuffaceous unit sandwiched between two conglomerate bodies has been altered by porphyritic intrusion and it is cut off to the south by the NE trending North Harvey fault zone.

MAGNETIC SURVEY:

On May 17, 1987, a magnetic survey was carried out over the property. A baseline was established along the north boundary with lines running south from it at 400' intervals. All lines were chained with stations established every 100'. A total of 1.3 miles of line were traversed and <sup>74</sup> readings were taken. The instrument used was a Geometrics proton magnetometer with an accuracy of +/- 1 gamma. Readings were plotted on a map with a scale of 1" = 100' and values were contoured at 100 gamma intervals. The purpose of the survey was to locate geological boundaries between the different rock units present on the property.

RESULTS OF MAGNETIC SURVEY:

Magnetic relief over the group was found to be quite low with readings ranging from 58,000 gammas over the graywacke and tuff to 60,000 gammas over local highs in the conglomerate. The most prominent feature is a fold near the west boundary where the strike varies 90° from the normal E-W direction. Evidence of the North Harvey fault was not apparent although the folded unit appears to be cut off by the fault just south of the survey area, [see geology map].

CONCLUSIONS AND RECOMMENDATIONS:

The magnetic survey corroborates the mapping depicted on Map 53a although the North Harvey fault was not located. Two miles to the east along the Harvey fault system the Highland Kirkland shaft and workings including significant gold mineralization can be found in similar porphyritized sediments. Since most gold mineralization in the area is structure-related a VLF-EM survey is recommended to try to locate the North Harvey fault along the south boundary of the East Black property. Further work on the group would be considered as results warrant, eg. if the fault is located a gold in humus geochem survey would be recommended.

*Michael Leahy*

CERTIFICATE

THIS IS TO CERTIFY THAT:

1. I am a graduate in Prospecting Techniques from the Northern College of Applied Arts and Technology, Haileybury campus, 1976. I have been active as a prospector and exploration contractor since 1974.
2. I am a member in good standing of the P.D.A., C.I.M.M., and I reside and hold office at 139 Carter Ave., Kirkland Lake, Ontario.
3. I have no interest in this property.
4. My report is based upon having personally carried out the magnetic survey, interpretation of the results, and upon my familiarity and experience as a prospector in the Kirkland Lake gold area.

Kirkland Lake, Ontario

July, 1987

Signed  
Michael Leahy  
Prospector

*Michael Leahy*



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# MAGNETIC SURVEY EAST BLACK PROPERTY LEBEL TOWNSHIP SCALE : 1" = 100'



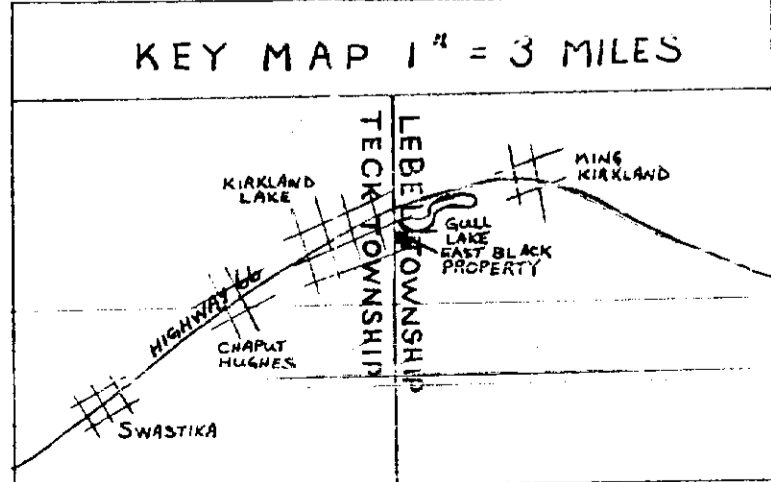
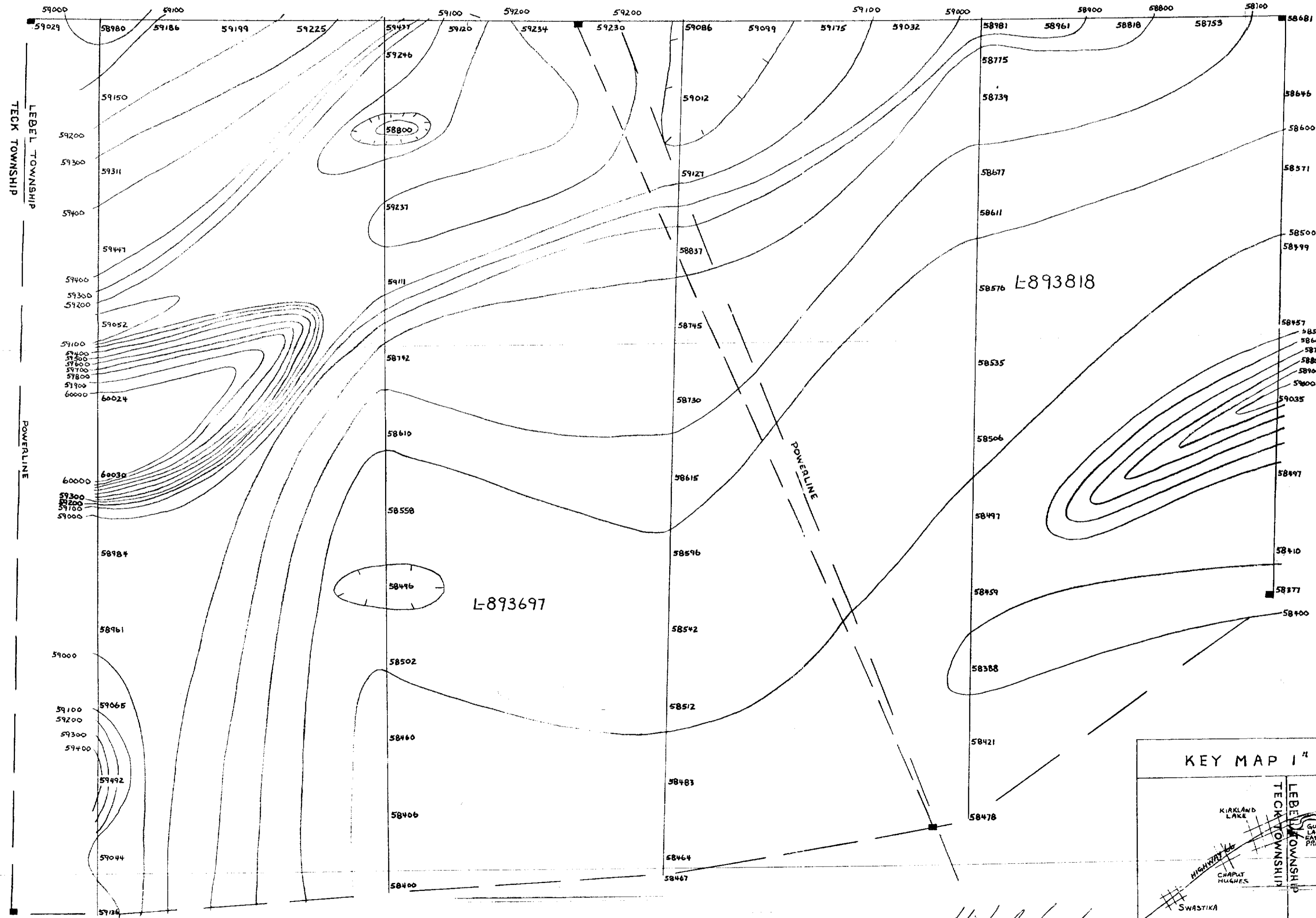
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*Michael Lerby*

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