

MOSHER LONG LAC GOLD MINES CLAIMS

CONCESSIONS 2 AND 3

ECHO & PICKEREL TOWNSHIPS

DISTRICT OF KENORA, ONTARIO.

REPORT ON MAGNETOMETER SURVEY

MOSHER LONG LAC GOLD MINES CLAIMS

CONCESSIONS 2 AND 3

ECHO & PICKEREL TOWNSHIPS

DISTRICT OF KENORA, ONTARIO

244 Bay Street TORONTO, Ontario December 11, 1947

REPORT ON MAGNETOMETER SURVEY

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CONCESSIONS 2 & 3

ECHO & PICKEREL TOWNSHIPS

DISTRICT OF KENORA, ONTARIO

LOCATION, ACCESSIBILITY, TOPOGRAPHY

The claim group comprises 18 claims at the N-E corner of Franciscan Lake, concessions 2 and 3, Echo and Picker-el townships, Sioux Lookout area, District of Kenora, Ontario.

The Siouz Lookout Dinorwic highway passes along the S-E margin of the claims. Bulldozed roads of the Dryden Pulp and Paper Company cross the claims so that they are readily accessible.

Considerable outcrop is present on the N claims. The S claims are covered by muskeg, a N-W striking esker, and the E part of Franciscan Lake.

FIELD WORK

A magnetometer survey of the claims was carried out by Mr. J. McGregor, B. Sc., during April, May, June of 1947. N.S lines were cut 400' apart and readings were taken at 50' intervals. A new Watt vertical magnetometer of scale constant approximately 28 gamma per division was used. The customary corrections for magnetic changes during the day and from day to day were applied. The corrected results are shown, contoured and interpreted on the magnetic survey sheet.

The geological outcrops have also been carefully mapped by Mr. McGregor and are shown on the geological map of the claims.



ARTHUR A. BRANT

CONSULTANT IN

MINING GEOPHYSICS AND ENGINEERING PHYSICS

244 Bey Street TORONTO, Ontario December 11, 1947

REPORT ON MACHETOMETER SURVEY MOSHER LONG LAC GOLD MINES CLAIMS

CONCESSIONS 2 & 5

ECHO & PICKEREL TOWNSHIPS

DISTRICT OF KENORA, ONTARIO

LOCATION, ACCESSIBILITY, TOPOGRAPHY

The claim group comprises 18 claims at the N-R corner of Pranciscan lake, concessions 2 and 3, Echo and Picker-el townships, Sioux Lookout area, District of Kenora, Ontario.

The Sioux Lookout Dinorwic highway passes along the S-R margin of the claims. Bulldozed roads of the Dryden Pulp and Paper Company cross the claims so that they are readily accessible.

Considerable outcrop is present on the H claims. The 6 claims are covered by muskog, a N-H striking eakor, and the E part of Franciscan lake.

FIELD WORK

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The geological outcrops have also been carefully mapped by Mr. McGregor and are shown on the geological map of the claims.

GEOLOGY

According to M. E. Hurst, Ontario Department of Mines, Volume XLI, Part VI, 1932, the formations present are:

Algoman - Granite and Quartz Porphyry Granite

Diorite and Granodiorite

<u>Timiskaming</u> - Greywacke Conglomerate

Keewatin - Volcanics, Massive, Pillow Lavas, Agglomerates, Tuff,

Chlorite Schist.

Observed on the property in outcrop (see geological map) were greywackes at the S side of Franciscan Lake, volcanics with some allomerates, and quartz and feldspar porphyries.

INTERPRETATION

The interpretation of the magnetic results show that from S to N. across the claims the following formations and conditions are present:

The S claim fraction is underlain by greywackes striking N 70° E, the contact showing some left-handed flexuring. Directly to the N under the central part of Franciscan lake is a band of porphyry approximately 600' wide with fairly regular boundaries. Along its N margin is a slight magnetic low interpreted as a shear, followed by altered volcanics and volcanics for a width of 600'. This is followed again essentially by a belt of porphyries perhaps 800' wide with a narrow belt of volcanics included. This brings us to the central portion of the claims.

From the central portion of the claims northward the irregular bodies of porphyry intruded into the volcanics are present. Many of the magnetic anomalies are felt to be the result of these porphyry intrusions localising the original magnetic content of the volcanics near these intrusive contacts.

The impression is also derived that in the northerly 9 claims the main porphyry intrusive mass is near the surface, thus occounting for the many irregularly shaped porphyry suboutcropings thought to exist. It is felt therefore that in this area mineralization and quartz stringers will be found, but that it is unlikely that a major structure going to depth exists.

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It will be noted that the areas of porphyry are grouped in belts along the regional strike, and that over the N-S width of the claims 3 main porphyry belts are present striking approximately N 60° E. This inducates that the intrusion of the porphyry has likely been controlled by structures already present, the areas of existing outcrop likely conforming to original minor anticlinal structures.

STRUCTURAL CONSIDERATIONS

On the basis of the last statement of the above section, it would be indicated that any work contemplated should be confined to those areas where the volcanic belts have a reasonable width and coatinuity along the strike, The northerly 9 claims on this basis would be eliminated as likely being largely underlain by porphyry intrusions.

The main structural feature to my mind seems to be the possible shear interpreted as existing along the north margin of the porphyry at the greywacke volcanic contact. This shear would pass through the central part of Franciscan lake and if extended to the E would line up with Pickerel Arm where marked shearing definitely exists.

The left-handed flexuring aforementioned at the greywacke and volcanic contacts with the S porphyry body could be explained as due to the N margin of a westward plunging anticline.

DEPTH OF DRIFT

Depths of drift were computed for several points on the property and all were found to be under 60'.

CONCLUSIONS

It is concluded that the S half of this claim group is by far the more promising. Within the S half attention should first be given to the porphyry volcanic contact just north of the main greywacke body.

WORK SUMMARY

Time spent on field work and drafting has been submitted to the Mining Recorder, Sioux Lookout by Mr. J. McGregor. Additional items are contouring, printing, colouring, 7 days; interpretation and report by Arthur Brant, 5 days.

Arthur A. Brant

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Arthur A. Brant

Curpu Beaut



52F16NE8580 52F16NW0041A1 PICKEREL

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July 14, 1950

Dear Mr. Smith:

We have been notified of the incorporation on May 30, 1950, of Lun-Echo Gold Mines, Limited, with head office at Room 1003, 67 Yonge Street, Toronto.

The company holds the following unpatented mining claims - KRL 22832-37 inclusive, KRL 22839-40-42-43, KRL 23060, in the townships of Echo and Pickerel. One hundred and twenty days assessment work has been done on each of the claims and the company proposes to carry on surface exploration and diamond drilling during the summer.

Yours very truly,

Office of the Chief Inspector of Mines.

DF/tm

Mr. R. L. Smith, Inspector of Mines, Box 310 KENORA, Ontario

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SUMMARY OF DAYS WORKED IN GEOPHYSICAL SURVEY

MOSHER LONG LAC GOLD MINES. LIMITED

	Line Cutting	Line Chaining	Magnet- ometer	Calcula- tions	Maps and Reports	Total
J.P. McGregor D. Duffy R. Nordstorm G. Wright V. Smith W. Gravelle	7 22 19 7 25 14	2 7 7 1 1	20	4		33 29 26 28 26 14
Dr. A. A. Brant A. Johnson, M.A.					5 7	-5 γ
	94	18	40	4	12	168

Total days worked 168 Working day 10 hrs.

Actual days' work credit at 10 hrs. per working day - $\frac{10 \times 168}{8}$ - 210

Days' credit at 4 days per man - 4 x 210 - 840

Part of time spent cutting lines for geophysical survey was credited to a geological survey.

A total of 40 days' work was credited to each of the claims on which the survey was done. The excess time was necessary to finish the job.

The claim numbers, on which the survey was done, are as follows:

KRL	22832	KRL	22840	KRL	23060
	22833		22841		23061
	22834		22842		
	22835		22843		
	22836		22844		
	22837		22845		
	22838		22846		
	22839		22847		

Main base control station is station 00N 00E. This station is 10-cated at the intersection of the Echo-Pickerel Township line and concession 2-3 line. It is marked by a 4" wooden stake driven into the ground.

December 24, 1947.

SUBMARY OF TAYS NOWED IN CLOSSICAL SURVEY

LOSHER LONG LAC GOLD MINES, LIKITED

	94	18	40	4	12	168
J. P. LoGregor D. Luffy R. Nordstrom G. Wright Y. Smith W. Gravelle Dr. A. A. Brant A. Johnson, E.A.	22 19 7 25 14	7 1 1	20	4	5 7	33 29 26 28 26 14
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•			
KRL.	22832	KRL 22840	
	22833	22841 🕶	
	22834	22842 /	,
•	22835 🗸	22843 🗸	
	22836	22844	
	22837 -	22845 V	
	22838 🗸	22846	
	22839 🗸	22847.	•

Main base control station is station OCN COE. This station is located at the intersection of the Echo-Pickerel Township line and concession 2-3 line. It is marked by a 4" wooden stake driven into the ground.

December 24, 1947.



KRL 23060 23061

SEE ACCOMPANYING MAP(S) IDENTIFIED AS 52 F/16NW-0041-A1(1,213)

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













