

2776

Electromagnetic Survey

On

Marge, Mike and M Claims

Lat. $119^{\circ} 30'$ Long. 51°

In

Kamloops Mining Division

For

LICHEN MINES LTD. (N.P.L.)

By

STRATO GEOLOGICAL LTD.

And

C. H. DONALDSON, P. ENG.

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 2776	N.P.L.
2776	

July 8, 1970

TABLE OF CONTENTS

	<u>Page</u>
Location Map	1
Introduction	2
Property	2
Geology (General)	2 - 3
Method of Survey	3 - 4
Personnel	4
Conclusions	4 - 5
Costs	5
Certification	6
Maps	Pocket
# 1 E M Survey	1" = 100'
# 2 " "	" "

INTRODUCTION:

Lichen Mines Ltd. (N.P.L.) of Vancouver, B. C. requested Strato Geological Ltd., Mineral Exploration Contractors and C. H. Donaldson, Professional Engineer to carry out an electro-magnetic survey on the Mike and Marge claims of their Adams Plateau Property.

PROPERTY:

The property is composed of the following 34 claims held by location:

<u>Claim</u>	<u>Record Number</u>	<u>Expiration Date</u>
Marge 4	65699	August 15, 1970
Marge 1 - 3	65700-65702	August 15, 1970
Mike 1 - 14	65703-65716	August 15, 1970
M 1 - 16	65717-65732	August 15, 1970

All the above claims have been transferred to Lichen Mines Ltd. (N.P.L.).

GEOLOGY (GENERAL):

The property is within the area commonly known as the Adams Plateau.

GEOLOGY cont'd:

The preliminary map of the Geological Survey No. 48 - 1963 shows the geology of the Adams Plateau on a scale of 4 miles per inch. No detailed map is available of the property, but the geology may be summarized as follows.

The area is underlain by a thick series of sedimentary and volcanic rocks which have been intruded by granite, granodiorite and porphyry dykes. The general strike is northeasterly. The most abundant rock comprise limestone, argillaceous limestone greenstone schist, quartz sericite schist, quartzite and phyllite.

Throughout the sedimentary and metamorphic rocks there are replacement zones of silver-lead-zinc and iron mineralization.

The principal minerals are sphalerite, galena, pyrrhotite, arsenopyrite, chalcopyrite, tetrahedrite and argentite along with minor quartz, epidote, chlorite calcite and mica.

METHOD OF SURVEY:

The E.M. Survey was carried out by Strato Geological Ltd., 37 - 615 West Hastings Street, Vancouver 2, B. C. using a Sharpe S.E. 200 E.M. instrument, from May 30 to June 11, 1970

METHOD OF SURVEY cont'd:

Five lines of 2,000 feet each in an east-west direction and one of 1,200 feet in a north-south direction were cut with stations at 100 foot intervals.

Readings were taken at 100 foot and 300 foot coil separations on both Method 'A' and Method 'B' as indicated on maps accompanying this report.

PERSONNEL:

The programme was under the supervision and direction of Mr. U. Leis, a graduate of Carleton University. Mr. U. Leis has completed geochemical and geophysical surveys throughout British Columbia.

Mr. Leis was assisted by Messrs. Ed Thorburn and Howard Hong, both of whom have had previous experience in Mining Exploration in British Columbia.

CONCLUSIONS:

The E.M. Survey showed a small anomaly at the Eastern end of the area surveyed on the Mike 2 and Marge 4 claims.

CONCLUSIONS cont'd:

Additional work will have to be completed to determine the significance of the anomaly.

COSTS:

E. M. Survey

Line Cutters 13 days @ \$70		\$ 910.00
Geophysicist and Instrument 13 days @ \$90		1,170.00
Professional Engineer's Report		300.00

Mobilization	\$ 602.96	
Room and Board	99.74	
Field Supplies	45.68	
Miscellaneous Supplies	<u>5.85</u>	<u>754.23</u>
TOTAL		<u>\$ 3,134.23</u>

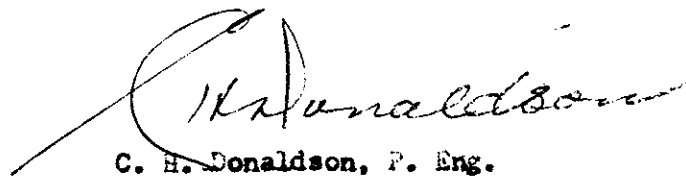

C. H. DONALDSON, P. ENG.

CERTIFICATION:

I, Clarence H. Donaldson, of the City of Vancouver in the Province of British Columbia, hereby certify as follows:

1. That I am a registered Professional Engineer of the Province of British Columbia and reside at Suite 101, Brentwood Apts., 2050 Barclay Street, Vancouver 5, B. C.
2. That my mining experience embraces all phases of the mining industry and have worked throughout Canada, Australia, South Seas and parts of U. S. A. and Mexico.
3. That I have no interest either directly or indirectly in the claims or securities of Lichen Mines Ltd. (N.P.L.) (Non Personal Liability) nor do I expect to receive any.
4. That the information contained herein was obtained through an examination of plans and reports of Strato Geological Ltd. as well as my previous knowledge of the area.

Vancouver, B. C.
July 8, 1970


C. H. Donaldson, P. Eng.



10°
5°
0
5°
10°
N E
S W

10°
5°
0
5°
10°
N E
S W

10°
5°
0
5°
10°
N E
S W

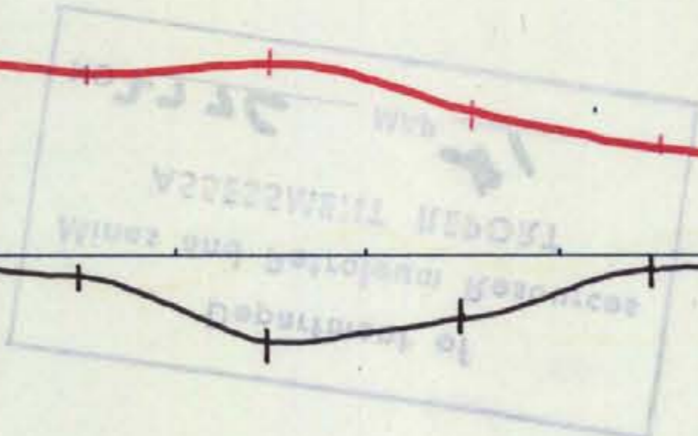
10°
5°
0
5°
10°
N E
S W

10°
5°
0
5°
10°
N E
S W

Mike 1
Marge 3

Mike 2
Marge 4

10°
5°
0
5°
10°
W S
E N



← Anomalous Area

H. Donaldson P. Eng.

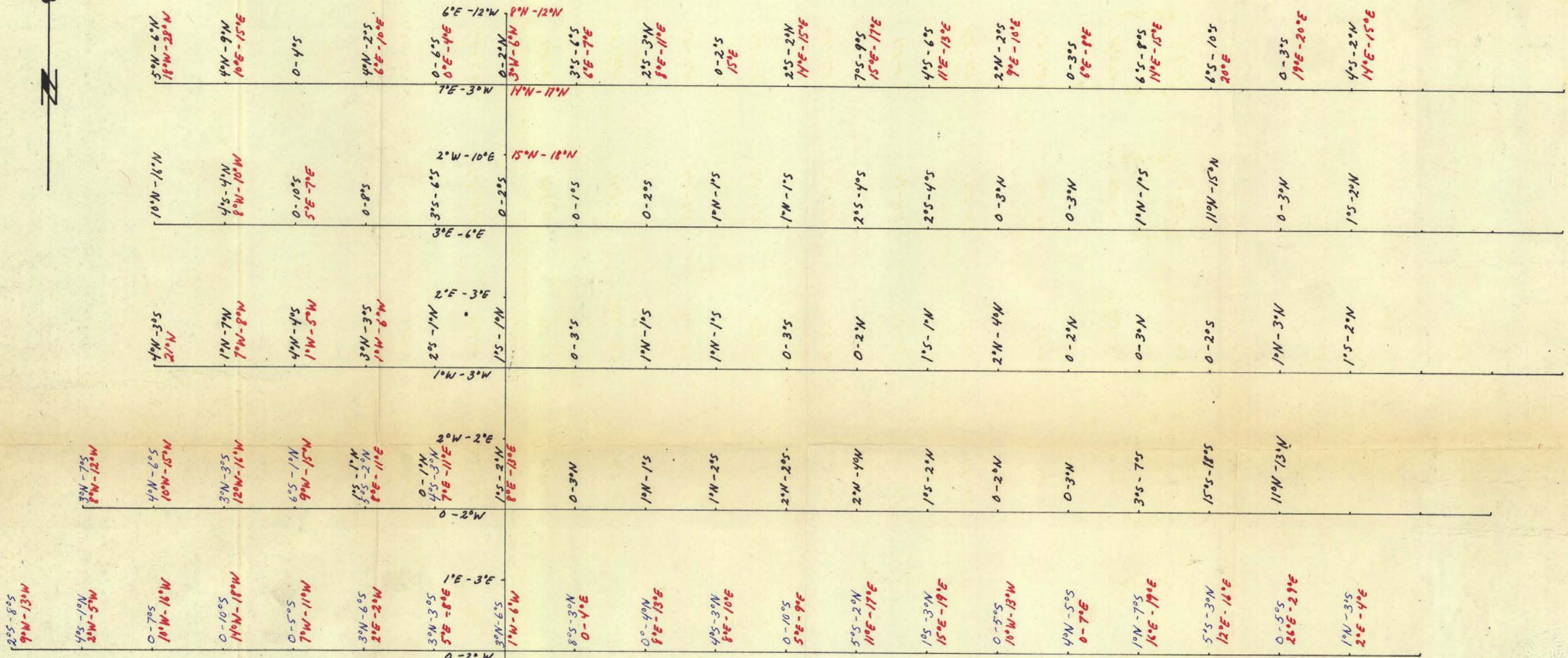
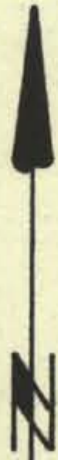
- METHOD "A" AT 300 FT. COIL SEPARATIONS —
- METHOD "A" AT 100 FT. COIL SEPARATIONS —
- METHOD "B" AT 100 FT. COIL SEPARATIONS —
- METHOD "B" AT 300 FT. COIL SEPARATIONS —

TO ACCOMPANY A REPORT BY:

LICHEN MINES LTD (N.P.L.)		
E.M. SURVEY		
MIKE 1&2, MARGE 3&4, CLAIMS		
KAMLOOPS M.D., B.C.		
USING SHARPE - S.E.200		
WORK BY STRATO	DATE 30 MAY - 11 JUNE, 1970	SCALE 1" = 100'



2776 M-1



2°S - 8°S
 9°N - 13°N
 4°S - 10°S
 2°W - 5°W
 0 - 7°S
 10°W - 16°W
 0 - 10°S
 14°W - 18°W
 0 - 5°S
 7°W - 11°W
 3°N - 6°S
 2°E - 2°W
 3°N - 3°S
 5°E - 8°E
 3°W - 3°S
 1°E - 3°E
 3°N - 6°S
 1°W - 6°W
 8°S - 3°N
 0 - 4°E
 0° - 4°N
 4°E - 13°E
 4°S - 3°N
 8°E - 10°E
 0 - 10°S
 5°E - 9°E
 5°S - 2°N
 3°E - 3°N
 1°S - 3°N
 15°E - 19°E
 0 - 5°S
 10°W - 13°W
 4°N - 5°S
 0 - 7°E
 1°N - 7°S
 16°E - 19°E
 5°S - 3°N
 12°E - 16°E
 0 - 5°S
 26°E - 29°E
 1°N - 3°S
 2°E - 4°E



Department of
 Geological Resources
 REPORT
 METHOD "A" AT 300 FT. COIL SEPARATION
 METHOD "A" AT 100 FT. COIL SEPARATION
 METHOD "B" AT 100 FT. COIL SEPARATION
 METHOD "B" AT 300 FT. COIL SEPARATION

2776 M-2

K. McDonald

TO ACCOMPANY A REPORT BY:

LICHEN MINES LTD (N.P.L.)

E.M. SURVEY

MIKE 1&2, MARGE 3&4, CLAIMS
KAMLOOPS M.D., B.C.

USING SHARPE - S.E.200

WORK BY STRATO	DATE 30 MAY - 11 JUNE, 1970	SCALE 1"=100'
-------------------	--------------------------------	------------------