180

ELECTROMAGNETIC SURVEY

for

FIDDLER MINERAL CLAIM GROUP

NICOLA MINING DIVISION

BRITISH COLUMBIA

by

Shield Mining Surveys Limited

June 24, 1957.

Ottawa, Ontario.

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Location-

The Fiddler Mineral Claim Group is located two miles north and two miles west of Mamit Lake, in the Nicola Mining Division, British Columbia.

Access-

The Group is easily accessible from the town of Merritt, B. C. by following the Mamit Lake road to a junction two miles north of Mamit Lake where a bush road leads directly to the Group.

Description of the Fiddler Claim Group-

The Fiddler Mineral Claim Group consists of a solid block of 6 Mineral Claims of approximately 50 acres each, more specifically described as follows:

Mineral Claim Numbers

1435K
1436K
1437K
1438K
1439K
1440K

Purpose of the Survey-

The purpose of the survey was to detect sub-surface conductors of electricity on the claims listed above. Examples of such conductors are wet or mineralized shears, graphites, and sulphides.

Method of Survey-

In the present survey a vertical-loop, single frequency electromagnetic unit was used. For this system of grid lines a conductor exists when the readings change from west to east angles while proceeding from the west. This change in the direction of the readings is known as a 'right-way cross-over', and this lies above the axis of the conductor. In the case of parallel conductors, the effect of one may overshadow the effect of another, resulting in a cross-over over one and only a 'dip' or 'rise' in the magnitude of the readings in the vicinity of the other.

All conducting zones are shown on the map by dashed lines. Where the existence of a conductor is uncertain, the line is accompanied by question marks.

Discussion of Results and Conclusions-

Several conductive and potentially conductive zones striking N 30° W were found to occur on the property, and there are shown on the accompanying map.

Conductive overburden effects, and/or small conductive zones

complicate the picture, making the location of the conductor and potential conductor axes difficult to establish.

Generally, the most important zone, and that worthy of first investigation occurs in the central portion of the property, and is bounded by two parallel conductors which extend from 12+00N, 6+00W to 12+00S, 2+75E and 15+00N, 4+50W to 3+00S, 3+50E. Within this zone the ground enclosed within these conductors between 3+00N and 6+00S appears to be the most important. This is based on the continuity of the conductors, magnitude of readings, and the known occurrences of copper mineralization at 0+00N, 0+75W, and 5+00S.

The two other strong cross-over points occur at 6+00N, 13+50W, and 3+00N, 10+25W. These are impossible to extend lineally due to interferences in the readings referred to above.

The other potential conductors were noted and their inferred locations are shown on the map. The cause of these potential conductors will have to await further development work on the known conductors at which time it may be possible to make a more accurate interpretation.

Recommendations-

It is recommended that further development work should be done on the Fiddler Mineral Claim Group, and in the following manner:

1. A geological survey.
2. A geochemical survey.
3. Stripping and trenching in the main zone between 3+00N and 6+00S, and also at 6+00N, 13+50W, and 3+00N, 10+25W.

4. If warranted, diamond drilling should be carried out, commencing on the above three zones.

SHIELD MINING SURVEYS LIMITED

John E. Betz, M. A.
Geophysicist.

William L. Young, Ph. D.
Geologist.

C E R T I F I C A T E

I, John E. Betz, of Toronto in the Province of Ontario, certify:

1. THAT I am a geophysicist and maintain an office at Toronto, Ontario.

2. THAT I am a graduate of the University of Toronto, B. A. Physics and Geology 1952, and M. A. Department of Physics 1954, and have been practising my profession as a geophysicist for more than four years.

3. THAT I have no direct or indirect interest in the mineral claims covered thereby and referred to herein the accompanying report on the vertical loop electromagnetic survey of groups one to six of the Fiddler Mineral Claim Group, Nicola Mining Division, British Columbia, dated this twenty-fourth day of June, 1957, or expect any interest in the securities of the company that owns or may own this mineral claim group.

4. THAT the interpretation involved in the accompanying report is based on field results obtained by Mr. D. Halliday of Shield Mining Surveys Ltd. on the heretofore mentioned group of mineral claims, during the month of June, 1957.

DATED this twenty-fourth day of June, A. D. 1957.

John E. Betz

John E. Betz, M.A.
Geophysicist.

CERTIFICATE

I, William Lee Young, of Ottawa in the Province of Ontario, certify:

1. THAT I am a geologist and maintain an office at Ottawa, Ontario.

2. THAT I am a graduate of McGill University, Ph. D. 1953, and that I have been practising my profession as a geologist for four years.

3. THAT I have no direct or indirect interest whatsoever in the Mineral Claims covered thereby and referred to herein the accompanying report on the Electromagnetic Survey of the Fiddler Mineral Claim Group, Nicola Mining Division, B. C., dated this 24th day of June 1957, or expect any interest in the securities of the company that owns, of may own this Mineral Claim Group.

4. THAT the accompanying report is based on a survey conducted by personnel of Shield Mining Surveys Limited, interpretation of the results, by Mr. John E. Betz, M. A., consulting geophysicist, and on personal observations made during a one day visit to the property in May, 1957.

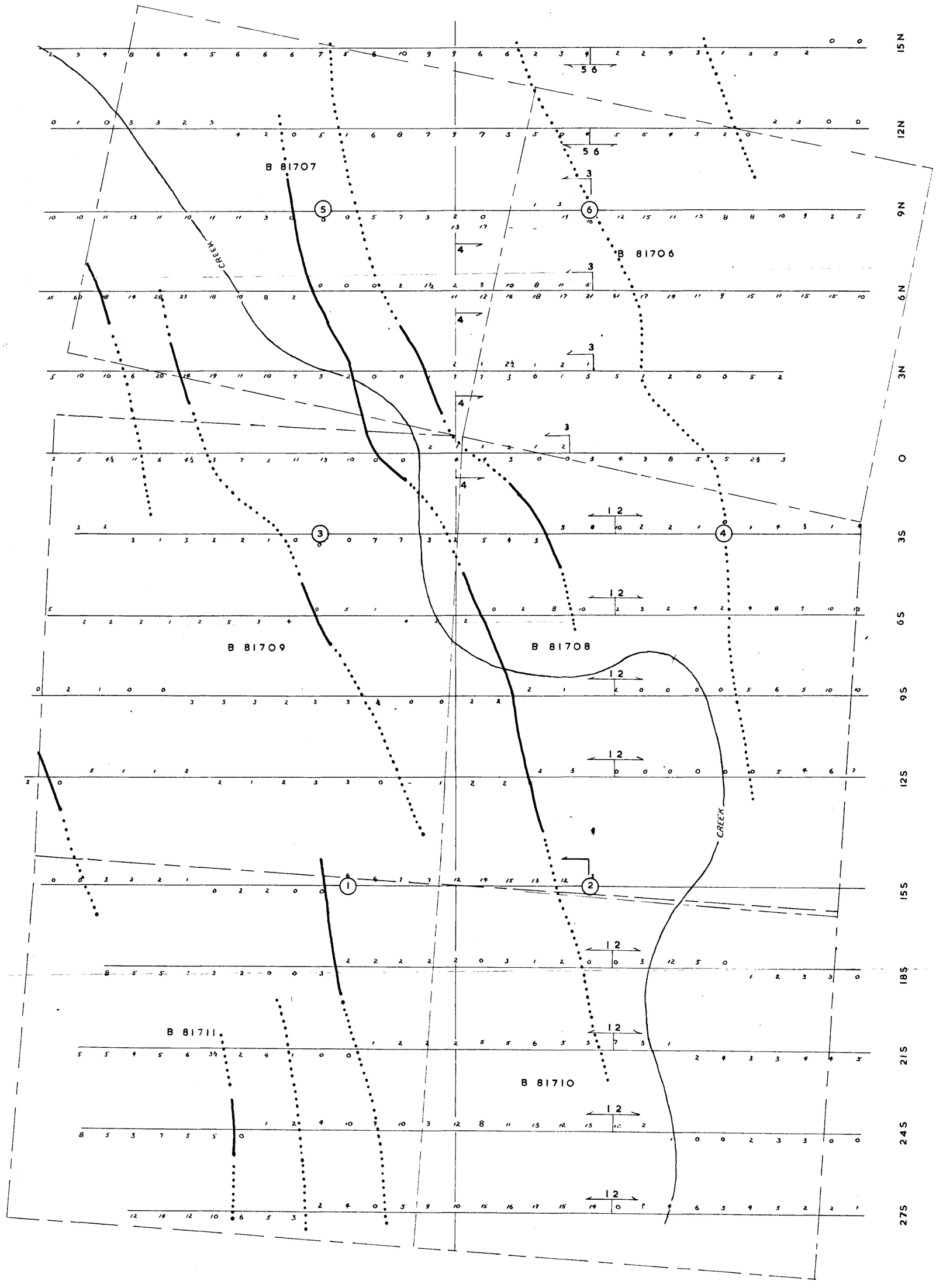
DATED this twenty-fourth day of June, A. D. 1957.

William Lee Young

William Lee Young Ph. D.
Geologist.

FIDDLER MINERAL CLAIM GROUP

CLAIMS ONE TO SIX INCLUSIVE



LEGEND

(2) TRANSMITTER LOCATIONS

CONDUCTOR AXIS

POTENTIAL CONDUCTOR AXIS

EAST ANGLES NORTH OF LINE
WEST ANGLES SOUTH OF LINE

SCALE - 1 INCH = 200 FEET

JUNE 24, 1957.

ELECTROMAGNETIC SURVEY

BY

SHIELD MINING SURVEYS LIMITED

Certified Correct
William E. Young Ph.D.
John E. Hoy, M.A.