

LINE CUTTING AND GEOPHYSICAL SURVEY

ANN #1 TO #32 RECORD NUMBERS 31773 TO 31804 INCLUSIVE

LOCATED AT

52° - 122° S.E. QUADRANT - McLEESE LAKE AREA

CARIBOO MINING DIVISION

AUGUST 1st TO OCTOBER 31st, 1966

Performed for Fidelity Mining Investments Limited
on option from the claim owner, L.P. Duquette
(R.N. Granger - Transfer Agent)

by

A.F. Reeve, P.Eng.,
Vancouver, B.C.

January 18, 1967.

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INTRODUCTION AND PROPERTY

From August 1 to October 31, 1966, line cutting and a magnetometer survey were performed under the writer's supervision, covering a group of claims in the McLeese Lake area of British Columbia. These claims are held under option from L.P. Duquette by Fidelity Mining Investments Limited. (Claims held under the name of R.N. Granger, Transfer Agent.)

The property consists of thirty-two contiguous mining claims Ann #1 to #32 inclusive, record numbers 31773 to 31804 inclusive, having a common anniversary date of January 24, 1967.

The claim block is situated one to three miles northeast of McLeese Lake, about twenty miles north of Williams Lake and four miles east of Highway 97.

The property is easily accessible by gravel road from Highway 97.

GEOLOGY

Oldest rocks of the immediate area are mixed volcanics and limestones of the Paleozoic Cache Creek group. These are intruded by a large mass of granite, quartz-diorite and related rocks of Mesozoic age. To the west of the area under discussion, both rock types are capped by a series of Tertiary basalts.

A geological mapping program was carried out immediately prior to the magnetometer survey. The mapping showed the property to be underlain almost entirely by quartz-diorite with a small amount of younger basalt in the southeasterly part of the group.

Copper mineralization of potential economic importance is known on the property of Gibraltar Mines immediately north of the Ann claim block. The copper occurs as chalcopyrite disseminations in fracture zones and shears in the granitic rocks. Copper is also known associated with magnetite and hematite in volcanic inclusions in the granites to the east of the Ann group.

WORK DONE1. Line Cutting

A total of 30.8 miles of line were cut over the claim block. The conventional method of blazing and clearing with pickets stationed at 100-foot intervals by chaining was employed. This work was done under contract by Mr. B. Corrigan of 3957 Perry Street, Vancouver, at a cost of \$3,006.66 to Fidelity Mining Investments Ltd. An invoice supporting this expenditure is included in Appendix "B".

2. Geophysics

Magnetometer readings were taken over the entire grid system at 100-foot intervals and at intervening points where additional detail was required.

GEOPHYSICS

1. Method

A Sharpe MF-1R fluxgate magnetometer was used throughout the survey. Measurements of the vertical component of the total field were made to the nearest 10 gammas with the field work conducted as described above.

A base station was chosen in an area known to be of normal background and all readings tied into this point and corrected for diurnal variation.

Field work was carried out by R.F. Liard, P.Eng. (Ontario), a graduate of the University of Toronto in mining engineering.

GEOPHYSICS (cont'd.)2. Results

The results are plotted and contoured on the accompanying 1 inch to 200 foot plan (back cover).

Magnetic relief is remarkably slight, the maximum variation being 240 gammas. In general, there is a broad high area along the north boundary of the property; this slopes gently downwards and flattens in the central and southerly part of the claim group. A very slight linear relative high extends from north to south across the central part of the property, conforming roughly to a topographic low followed by a swamp and stream. A small area of extreme lows is found in the vicinity of 36 W on line 24S.

The magnetic high area is considered due to inclusions of more basic rock - probably volcanics - which are known to exist immediately to the northeast of the Ann Group and which dip southward at 40° - 45° . The low conforms roughly with an area in which a thin layer of Tertiary basalt outcrops, and may be due to this, although it would be normal to expect a high over these rocks.

The slight linear high coinciding with the swamp area, suggests a shear containing a little pyrrhotite or magnetite.

CONCLUSIONS

1. The magnetometer survey does not outline any definite areas of interest.
2. The postulated shear in the swamp area is too indefinite to justify further attention.
3. The high at the north end of the group may in part be caused by magnetite with associated copper.
4. Since copper mineralization is not always associated with magnetic material, these generally negative results do not necessarily condemn the property. They do indicate, however, that some other type of geophysical survey is required if copper is to be found on the Ann Group.

RECOMMENDATIONS

1. Some additional detailed prospecting could be done at the northern end of the claim group.

2. A limited amount of induced polarization work is recommended in the magnetic high area and to check anomalous geochemical features indicated by that survey.

APPENDIX "A"

STATEMENT OF EXPENDITURES

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Line Cutting \$ 3,006.66

(See Appendix "B")

Geophysical Survey

Magnetometer operator @ \$600.00/mo.

10 days - 1/3 x \$600.00 = \$ 200.00

Rental of magnetometer @ \$225.00/mo

1/3 x \$225.00 = 75.00

Meals and accommodation @ \$15.00/man

day 10 x \$15.00 = 150.00

Report preparation and stenographer = 125.00

550.00

\$ 3,556.66

NOTE: \$3,200.00 to be applied to fulfill assessment work requirements on 32 claims for a period of 1 year.

APPENDIX "B"

INVOICE IN SUPPORT OF EXPENDITURE

June 14, 1966

I N V O I C E

To: Fidelity Mining Investments Ltd.,
c/o L.G. Phelan,
508 - 80 Richmond St. West,
Toronto, Ontario

From: Mr. B. Corrigan,
3957 Perry St.,
Vancouver, B.C.

Re: Line cutting - Ann Claim Group
Cariboo Mining Division, B.C.

30.8 miles of picket line cut and chained
@ \$85.00/mi. \$ 2618.00

Claim staking - 6 claims
(Ann #33 to #38) @ \$20/claim 120.00

Auto mileage, 974 miles @ 10¢ 97.40

Food supplies at cost (receipts attached) 291.26

\$ 3126.66

- 120.00

Less -

\$3,006.66

Advances paid by A.F. Reeve . . . \$ 610.00

15% holdback (to be paid on
completion of inspection) . . . 470.00 1080.00

Amount Due: \$ 2046.66

Forward payment to Mr. B. Corrigan,
c/o Plaza Hotel,
Kamloops, B.C.
not later than June 18, 1966.

Approved: _____
[Signature]

3126.66
- 120.00
\$3006.66

APPENDIX "C"

AFFIDAVIT IN SUPPORT OF EXPENDITURES

DOMINION OF CANADA: }
PROVINCE OF BRITISH COLUMBIA. }
To Wit:

In the Matter of

A STATEMENT OF EXPENDITURES REGARDING THE
ANN 1 TO 32 MINERAL CLAIMS -
RECORD NUMBERS 31773 TO 31804 INCLUSIVE

I, ALBERT F. REEVE

of 400, 837 W. Hastings Street, Vancouver

in the Province of British Columbia, do solemnly declare that

1. The attached statement of expenditures regarding exploration of the ANN #1 to #32 mineral claims is true.
2. I was retained by Fidelity Mining Investments Ltd. to supervise the exploration work to which the expenditures apply
3. The aforesaid statement of expenditures is herewith annexed, and marked Exhibit "A", to this my statutory declaration.

And I make this solemn declaration conscientiously believing it to be true, and knowing that it is of the same force and effect as if made under oath and by virtue of the "Canada Evidence Act."

Declared before me at the City
of Vancouver, in the
Province of British Columbia, this
day of _____, A.D.]

*A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.*

APPENDIX "D"

WRITER'S CERTIFICATE

ALBERT F. REEVE, P.ENG.

GEOLOGICAL ENGINEER

400 - 837 West Hastings Street, Vancouver 1, B.C.

**ASSOCIATE
RONALD A. GRANGER**

Phone 685-0167

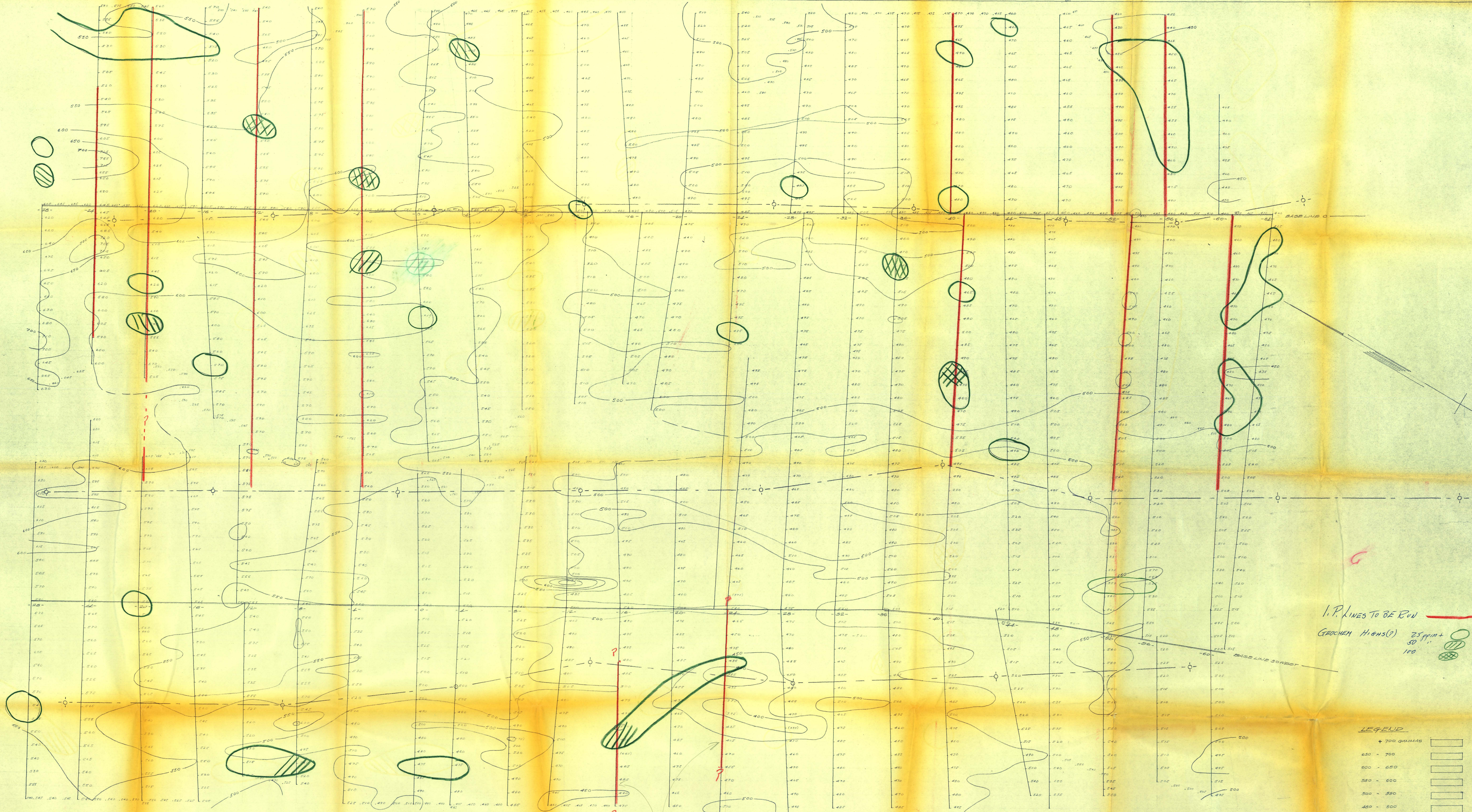
January 18, 1967

WRITER'S CERTIFICATE

I, Albert F. Reeve, of Vancouver, B.C.
hereby certify that:

1. I am a geological engineer residing at 2557 West 3rd Avenue, with an office at 400, 837 West Hastings Street.
2. I am a graduate of the Provincial Institute of Mining, Haileybury, Ontario (1958) and received a Bachelor of Science degree from Michigan Technological University, Houghton, Michigan (1961).
3. I am a certified member of the Association of Professional Engineers of Ontario and British Columbia
4. I have compiled this report and the work described herein was carried out under my supervision.

Albert F. Reeve



L.P. LINES TO BE RUN
 GEOCHEM HIGH(S) 25 ppm + 50 100

POSSIBLE POWER LINE INTERFERENCE?

LEGEND

| | |
|--------------|-----|
| + 700 GAMMAS | [] |
| 650 - 700 | [] |
| 600 - 650 | [] |
| 550 - 600 | [] |
| 500 - 550 | [] |
| 450 - 500 | [] |
| 400 - 450 | [] |
| - 500 GAMMAS | [] |

INSTRUMENT: SHARPE M-14 MAGNETOMETER

FIDELITY MINING INVESTMENTS LTD
 MAGNETOMETER SURVEY OF
 McLEESE LAKE PROPERTY

SCALE ONE INCH = 200 FEET
 SEPTEMBER 1966

