

5770

REPORT ON MAGNETOMETER SURVEY
of B-D mineral Claims Nos. 1-6
Coquihalla

NEW WESTMINSTER MINING DISTRICT

by

R. E. Chaplin

October 17, 1975

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT

NO. 5770 M.P.

REPORT OF MAGNETOMETER SURVEY
of
E-D Mineral Claims, Nos. 1-6 inclusive
Fifteen Mile Creek
near Coquihalla River
Hope, B.C. area
NEW WESTMINSTER MINING DISTRICT
PROVINCE OF BRITISH COLUMBIA

Performed August 25, 26, 27, 1975
October 13, 14, 15, 1975

by

R. E. Chaplin, P. Eng.

for

Marvin Sherman

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Introduction:

This report is submitted by R. E. Chaplin, P. Eng. to support assessment work credits on the B-D Mineral Claims Nos. 1-6 in the New Westminster Mining District in the Province of British Columbia. The subject report describes the results of a geophysical survey (magnetometer) performed in August and October 1975 by R. E. Chaplin for M. Sherman, Prospector and registered owner of the said claims.

Location and Access:

The B-D, 1-6 mineral claims were located Oct. 6, 1974 by Marvin Sherman at $121^{\circ}16'30''$ W. longitude and $49^{\circ}28'30''$ N. latitude. The location line for the mineral claims is in the valley bottom of Fifteen Mile Creek which flows into the Coquihalla River about 10 miles N.E. of the Municipality of Hope. The property is about 3500 N.W. of Canadian Pacific Railway Bridge across Fifteen Mile Creek on the westerly bank of the Coquihalla River. The topography of the claim group is rugged and well forested except for talus slopes. Access is by all weather gravel road from Hope.

General Geology:

The B-D claim group geology is obtained from the Geological Survey of Canada, Map 12-1969, paper 69-47, Hope (west half) at a scale of 1:250,000. The westerly half of the claim group is underlain by Hozameen group of Devonians, Carboniferous or Permian age, Basic Volcanic rocks; and the easterly half of the claim group is underlain by older ultramafic serpentine and serpentized peridotite. The claim group lies westerly and almost adjacent to the Hozameen fault, trending north-northwest. There are a number of reported mineralized occurrences (gold in arsenopyrite and pyrite) near the subject claim group.

Description of Survey:

The magnetometer survey was performed over 6 days: August 25, 26, 27, and October 13, 14, 15, 1975 by R. E. Chaplin P. Eng. The survey was conducted on a grid with base line on location line in Fifteen Mile Creek with lines spaced 400 ft. apart, perpendicular to the location line for claims B-D 1, 2, 3, 4. The readings were taken using a Sharps MF-1 Fluxgate magnetometer utilizing a base station at the C.P.R. Bridge 3500 ft. S/E from Line O. Readings were taken in gammas and corrected for daily diurnal variations to ± 50 f. The area covered by the survey covered B-D 1, 2, 4, 5, 6. Claim B-D 3 was steep and rocky and was not surveyed due to terrain problems. The readings were taken at 100' stations on the grid lines and base lines and contoured at an interval of 100 f at a scale of 200 Ft. equals one inch, plan of magnetometer survey which accompanies this report.

Interpretations of Results:

As shown on the accompanying plan, the magnetic gradient was fairly constant and trending northerly with an east-west gradient of approximately 500-1000 per 1000 feet, increasing to the west over most of claim group. The notable exception is a large and significant anomaly (probably magnetite) discerned to be on the boundary between B-D 4 and B-D 6. The anomaly has a long axis of about 1500' trending true north and a width of 600-750 feet. The conformation of the anomaly does not conform to the topography of the claim group, and is therefore considered by the writer to be of significance and worthy of more detailed geophysical and geological examination in light of the other known auriferous mineral occurrences in the area. The magnetic variation of the anomaly is 1500 gammas over 300 lineal feet on each flank of the anomaly.

Recommendations:

The writer recommends detailed magnetometer survey over the B-D 4 and 6 mineral claims with detailed prospecting and geological mapping to investigate the anomaly area.

Summary and Conclusions:

The B-D, 1-6 mineral claim group on Fifteen Mile Creek near Hope B.C. was surveyed for magnetic variations in August and October 1975 and a significant anomaly of 1500 gammas intensity of a well defined nature 1500 feet long and 700 feet wide was located on the boundary between the B-D 4 and 6 mineral claims. The anomaly warrants further investigation by prospecting, geophysics and geology to determine the presence of any possible economic mineral occurrences. The survey was performed at a total cost of \$1325.00 as supported by the accompanying statement of expenditures.

R. D. Chaplin P. Eng
to accompany report on B-D mineral claims
New Westminster M.O. B.C.
Oct 17th/75

STATEMENT OF EXPENDITURES

Rental of Sharp MF-1 Magnetometer-----	\$125.00
Cost of travel (truck) -----	\$100.00
Subsistence costs (6 man days) -----	\$200.00
Wages for field work -----	\$700.00
Drafting and report -----	<u>\$200.00</u>
Total cost of survey	\$1325.00

QUALIFICATIONS OF SURVEYOR

I, Robert E. Chaplin of Vancouver B.C. am a member of the Association of Professional Engineers of British Columbia and a graduate of The University of British Columbia (B.A. Sc.) in Geological Engineering in 1958.

I have been engaged in geological, geophysical and other mineral exploration activities continuously since 1958 in Western Canada.

I am normally employed as a geological consultant and a geophysical survey contractor and have been employed since 1965.

Robert E. Chaplin P. Eng
to accompany report on B-D mineral claim
New Westminster M.A. P.E.
Oct 17/75

121° 25'

121° 20'

121° 15' W
49° 30' N



KEY MAP
OF
BD 1-6 Mineral Claims
Scale 1:50,000

after NTS Series
92 H/6 WEST HALF
Edition 1 ASE
HOPE
YALE District



Fifteen
Mile Creek

CPR
Railway
Bridge

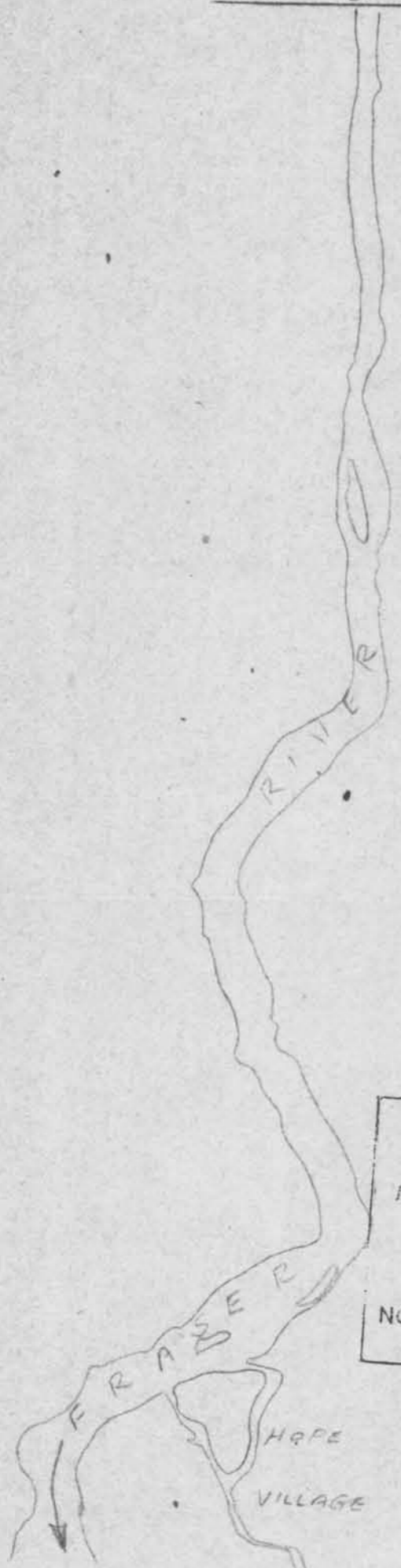
Jessie

49°
25'

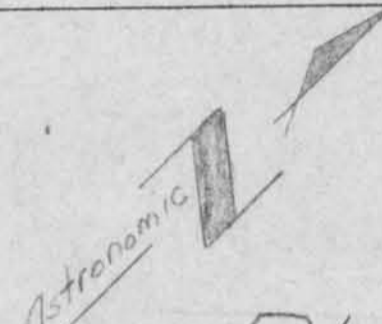
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INDEX MAP
to accompany
Magnetometer Survey
Plan and Report
of
BD. 1-6 Mineral Claims
NEW WESTMINSTER M.D
BRITISH COLUMBIA



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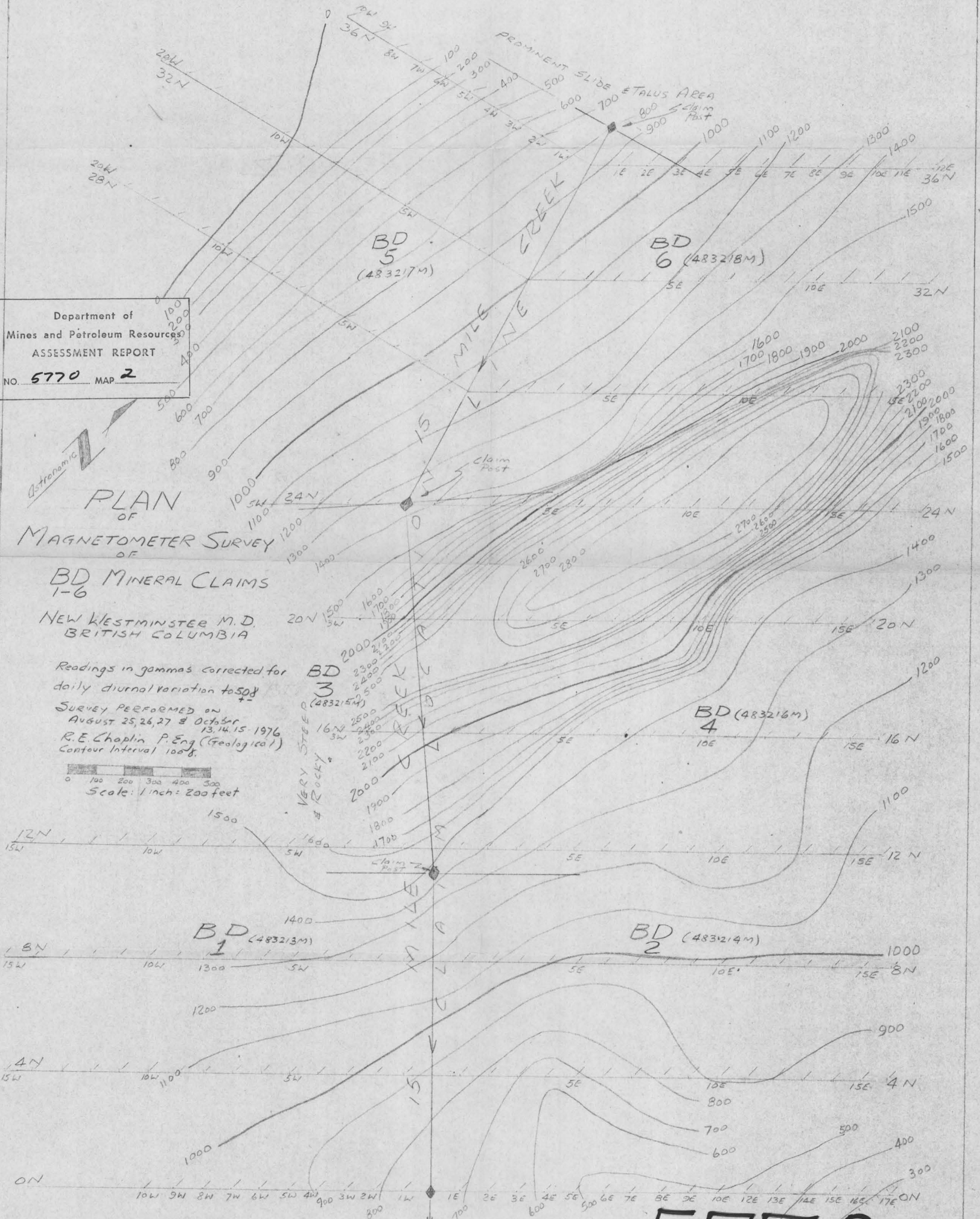
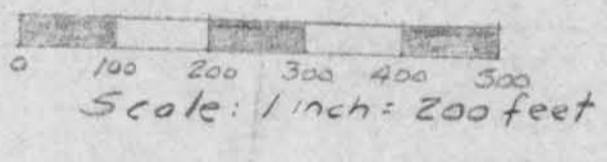


PLAN
OF
MAGNETOMETER SURVEY

BD MINERAL CLAIMS
1-6

NEW WESTMINSTER M.D.
BRITISH COLUMBIA

Readings in gammas corrected for
daily diurnal variation to 50γ ±
SURVEY PERFORMED ON
AUGUST 25, 26, 27 & October
13, 14, 15, 1976
R.E. Chaplin P. Eng (Geological)
Contour Interval 100γ.



Magnetometer Base Station
3500' SE at CPR Bridge.

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