

GEOPHYSICAL REPORT ON FALCON & LARCH CLAIMS
(July 1 - September 18, 1952)

by

F. McIntosh Galbraith 82 F/3W

Located 15 miles southwest of Salmo, B.C.

49° Lat. 117° Long. S.E. Quad.

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#1 Fig. 1 Map accompanying Diem Geomagnetic
Survey Report.

REPORT ON GEOMAGNETIC SURVEY

of

FALCON AND LARCH CLAIMS

SALMO AREA, BRITISH COLUMBIA

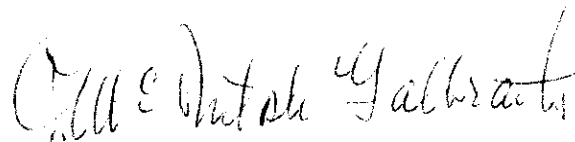
The Falcon and Larch groups of mining claims cover the ground immediately north of the International Boundary, substantially between Boundary Markers 184 and 185. This area is along the high ridge lying between Russian Creek and the West Fork of Russian Creek, and the top of the ridge attains an elevation of slightly more than 5,100 feet above sea level at the west end of the group, running down to about 3,000 feet at the east end. The terrain is relatively rugged and difficult of access; and geological mapping has shown that the area is covered by dark gray argillites, tentatively correlated with the Ledbetter Slate of Ordovician age. A geomagnetic survey of these claims was made under my direction during the summer of 1952, in an effort to determine whether any mineralization underlies the argillites.

The instrument used for this survey was a Davidson Magnetometer, a vertical variometer with a sensitivity of approximately 27 gammas per instrument scale division. Lines running northerly were surveyed and cut out at intervals of 400 feet along the south boundary of the group, and magnetic observations were taken at intervals of 100 feet along each line. A total of 540 observations were taken by the field operators, W. O.

MacKenzie and E. Combs, during the course of the survey in August and September, 1952.

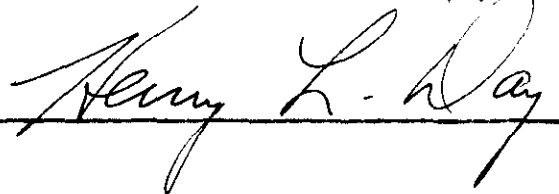
The attached map (Figure 1) shows the results of the survey. The magnetic profiles are shown in red, plotted to a vertical scale of 135 gammas per inch; and the points at which individual magnetometer observations were taken are indicated by short cross-hachures on the magnetometer lines. The West Fork of Russian Creek is shown in blue, and topographic contours are shown in black.

The results of the survey must be considered as totally inconclusive. Magnetic variations were found to be of such low intensity and irregular distribution that the only possible interpretation is that no recognizable magnetic anomalies exist in the area. This was suggested by the early results of the survey; and when the same pattern (or lack of it) was found to persist as the survey progressed easterly, fewer lines at longer intervals were surveyed magnetically. When nothing was found at the longer intervals, the survey was stopped; and the conclusions are that further geophysical work is not warranted on this group of claims. Other methods of investigation, perhaps by geochemistry, must be sought before attempting further exploration of this block of ground.



F. McIntosh Galbraith,
Chief Geologist,

<u>Name</u>	<u>Days Worked</u>	<u>Rate of Pay</u>	<u>Expense Claimed</u>
W. O. MacKenzie	July 1	1 day	\$15.00 per day
	July 3	1 "	
	July 5	1 "	
	July 8	1 "	
	July 22	1 "	
	July 24	1 "	
	July 29	1 "	
	July 31	1 "	
	Aug. 1	1 "	
	Aug. 4-9	6 "	
	Aug. 12	1 "	
	Aug. 22-23	2 "	
	Aug. 25-30	6 "	
	Sept. 10-12	3 "	
		27 days @ \$15.00 per day	\$405.00
E. Combs	July 22-26	5 days	\$13.50 per day
	July 28-31	4 "	
	Aug. 1-2	2 "	
	Aug. 4-9	6 "	
	Aug. 12-16	5 "	
		22 days @ \$13.50 per day	297.00
F. M. Galbraith	July 22	1 day	\$35.00 per day
	Sept. 18	1 "	
		2 days @ \$35.00 per day	<u>70.00</u>
TOTAL FOR MAGNETIC SURVEYING			<u>\$772.00</u>
GRAND TOTAL			\$1,432.80

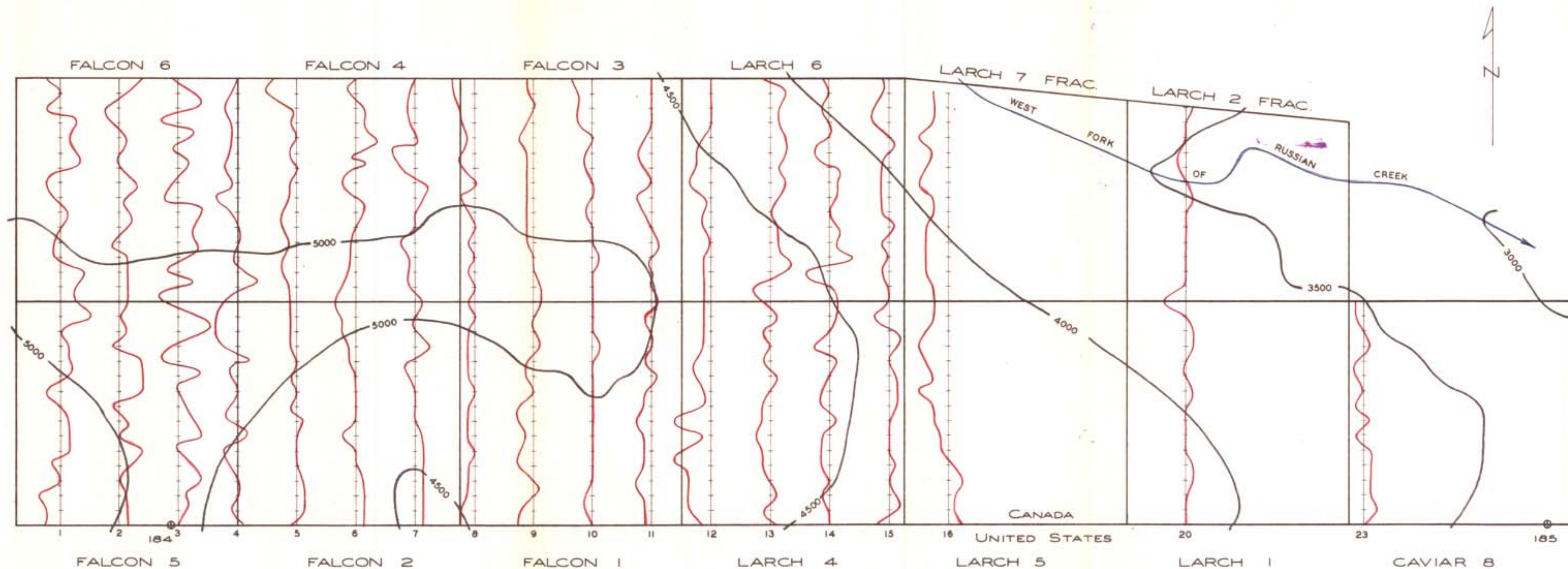


Subscribed and sworn to before me, the undersigned, this
22nd day of September, 1952.

Kathryn A. Eichwald

Notary Public in and for the State of Idaho,
residing at Wallace.

My Commission expires March 10, 1954.



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **75** MAP **#1**

DIEM MINES LTD.
GEOMAGNETIC SURVEY OF FALCON-LARCH GROUP SALMO AREA - B.C.
SCALE: 1 INCH = 500 FEET
BY: *W.O. MacKenzie*
APPROVED: *W. L. Dutch Galbraith*
DATE: *September 20, 1952*

#75
Map #1
FIGURE 1