

49° 115° S.W. 82G/5W
Report on Magnetometer Survey
on
Bert, Elephant, and St. Joseph #1 Groups
Property of Rimrock Mining Corp.
by: S. B. Hamilton Work: July 16/66-
Aug. 22/66

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REPORT

ON

MAGNETOMETER SURVEY

ON

PROPERTY OF RIMROCK MINING CORPORATION

FORT STEELE MINING DIVISION

British Columbia

BY

S. B. HAMILTON, B.A. (Geol.)

January, 1967

INDEX

	Page
Introduction	1
Procedure	1
Property, Location and Access	2
Method of Survey and Instrument Data	2
1. Method	
2. Instrument	
3. Data	
Discussion of Results	3
Personal employed - Time	Appendix
(POCKET) MAGNETOMETER SURVEY #1	

REPORT ON MAGNETOMETER SURVEY ON THE PROPERTY OF

RIMROCK MINING CORPORATION

FORT STEELE M.D., CRANBROOK, B.C.

INTRODUCTION

During the summer of 1966 between the period July 16th 1966 to August 22nd 1966 a magnetometer survey was carried out over twenty-eight of the claims held by Rimrock Mining Corporation on their property located 7 miles West of Cranbrook, British Columbia and located in the Fort Steele Mining Division.

The survey was conducted by R. Buckley, of Calgary a Geological Engineer, employed by Placid Oil ^{CO} ~~Limited~~. The survey was ^{NOT} conducted in cooperation with Rimrock Mining Corporation. R Buckley was the geophysical operator. Interpretations of geophysical data was made by S. B. Hamilton, B.A., Geologist, a graduate of the University of British Columbia, 1948.

The survey covered 28 of the claims held by Rimrock Mining Corporation.

PROCEDURE

A basic line running approximately East-West, was established along the main access road to the property. Lines were cut at approximate right angles to the South of the base line at 400 foot intervals. Readings were taken along all lines at 100 foot spacings. The results of the survey are plotted on the accompanying map.

LOCATION AND ACCESSIBILITY

The Rinrock Mining Corporation ground consists of 48 claims located about 7 miles West of the City of Cranbrook. The property is serviced by a good gravel road that cuts the property.

West longitude $115^{\circ} - 30'$ and north longitude $49^{\circ} - 29'$ pass through the property.

TOPOGRAPHY AND TERRAIN

The property is located between the elevations of 3500 and 4300 feet, on an elevated knoll located to the North and West of Jim Smith Lake. The terrain consists of rolling ground, dropping off on the West to the Kiahko Creek Valley, and to the East sloping gradually to Jim Smith Lake. A steep bluff, drops off to the South along the Southern boundary of the property.

The property is heavily wooded, with lodgepole pine, fir, tamarack and scrub alder making up most of the tree growth.

METHOD OF SURVEY

The magnetometer survey was conducted on a parallel line system with spacing of 400 feet between lines, and readings taken at 100 foot intervals. Where higher readings were indicated, a closer spacing of points was taken.

Lines were run by sighting with a Brunton compass. These lines were slashed out and marked with blazes and red flagging. At 100 foot intervals stakes were placed. Readings were recorded at each of these stations.

A Jalander Electronic magnetometer, model 46-65 was used. This is a lightweight, readily portable reconnaissance type instrument employing an oil dampened fluxgate with automatic leveling device. The instrument is temperature compensated up to 2 gammas per degree, and has an improved voltage stabilization circuit that insures that a decrease in battery life will not affect the readings within the given limits. Readings were taken on the No. 2 sensitivity range. This instrument is transistorized. Power is fed by twelve 1.5 volt standard batteries.

The readings recorded on the property ranged from a low of 7200 gammas to a high of 8200. The average readings fell within the 7400 to 7500 range, with little variation over most of the property.

The most significant readings were detected in the area of the main workings. Several small anomalies were recorded in the zone lying North of the workings, with some pronounced anomalous conditions both to the East and West. The Eastern anomaly ranged from 7500 to 8200, a difference of 700 feet in field strength. The smaller anomalies, located to the North and East showed a magnitude of 7400 to 7900 gammas. No orientation could be determined for the latter anomalies. These measured 300 to 400 feet in length. The largest anomaly located due North of the workings measured 500 feet in length.

SUMMARY AND CONCLUSIONS

The area in which the best magnetometer readings were obtained was located late in the season. There are indications that stronger anomalous conditions may be obtained in a continuation of the survey to the North of the main access road.

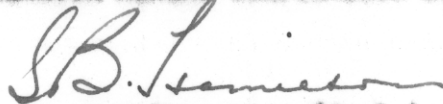
The higher readings were located in an area in which disseminated mineralization is prevalent. A few, well mineralized quartz veins also occur in this vicinity. Unfortunately, the ground in which many of the higher readings were detected is covered with overburden, so that no surface verification of mineralization could be made.

The general area surveyed consists of shallow dipping beds of the middle Aldridge sediments. Some major folding has been detected in the area, consisting of a gradual Z shaped warp. The area is underlain at a depth of 500 to 700 feet by a large diorite sill or sills. Several granodiorite stocks occur on the property.

A continuation of the survey is planned for 1967 to cover the area North of the main access road. Further work is required in order to come to any definite conclusions as to the depth and lateral extent of the conductors.

Respectfully Submitted,

RIMROCK MINING CORPORATION LTD.


S. B. Hamilton, B.A.(Geol.)
Property Geologist.

Dec. 10, 1966

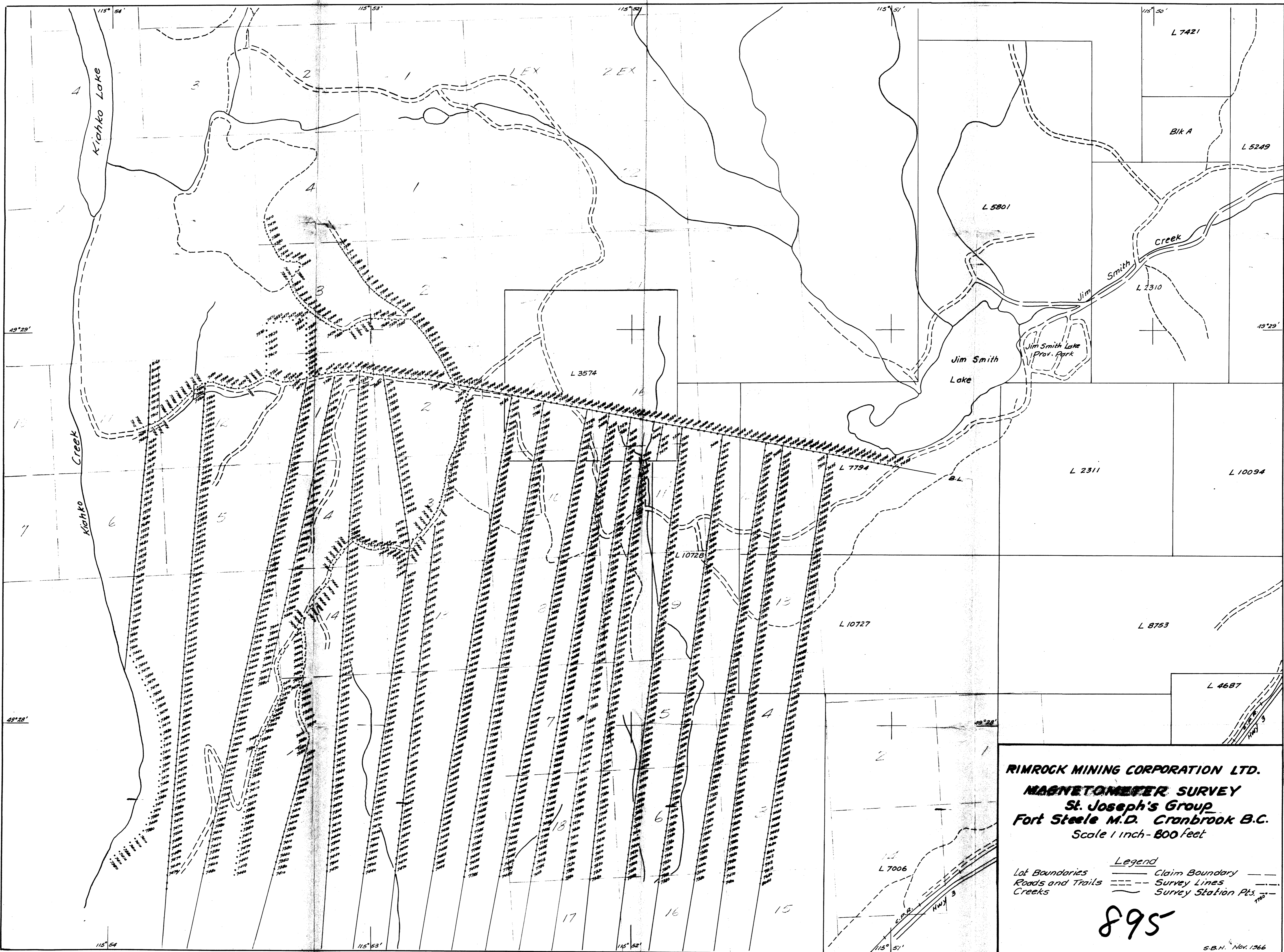
APPENDIX

The following is a breakdown of man-time expended on the property.

- | | |
|--------------------------------|---------------------------------|
| 1. Geophysical operator | Aug. 16 to Sept. 22, 1966 incl. |
| 2. Geophysical assistants | Aug. 16 to Sept. 22, 1966 incl. |
| 3. Linecutters and Compass men | Aug. 16 to Sept. 22, 1966 incl. |
| Draftsman - 3 days | Sept., 1966 |

A total of 22 working days were expended on the property during the above noted period.

Two vehicles were used during the survey period.



RIMROCK MINING CORPORATION LTD.
MAGNETOMETER SURVEY
St. Joseph's Group
Fort Steele M.D. Cranbrook B.C.
 Scale 1 inch = 800 feet

Legend
 Lot Boundaries ———
 Roads and Trails - - -
 Creeks ~~~~~
 Claim Boundary ———
 Survey Lines - - -
 Survey Station Pts. +

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