

50° 117' S.E.

**GEOPHYSICAL REPORT  
ON PROPERTY OF**

**SILVER SUMMIT MINING COMPANY LIMITED (N.P.L.)**

**Claims Surveyed:**

PAK	# 1 - 16 inc.	9779 - 9794
ANT	# 1 - 8 inc.	9429 - 9436
MARI	# 1 - 12 inc.	9437 - 9448
SPARKLE	# 1 - 12 inc.	8435 - 8346
T	# 1 - 4 inc.	8024, 8023, 8025, 8026

which are located in the Tenderfoot and Mobbs Creeks  
Area, Slocan Mining Division, Province of British  
Columbia.

The survey was conducted during the period July 3  
to August 19, 1966

The report is written by G. E. White, B.Sc.

**SULMAC EXPLORATION SERVICES LIMITED**

October 4, 1966

82K/6W

82K6



915

**GEOPHYSICAL REPORT  
ON PROPERTY OF**

**SILVER SUMMIT MINING COMPANY LIMITED  
TROUT LAKE AREA  
SLOCAN MINING DIVISION  
PROVINCE OF BRITISH COLUMBIA**

**SULMAC EXPLORATION SERVICES LIMITED  
OCTOBER 4, 1966**

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In Pocket:

Map of Electromagnetic Survey #1

Scale: 1" = 400'

~~Location Map # 2~~

## INTRODUCTION

During the period July 3 to August 19, 1966, Sulmac Exploration Services Limited, conducted an electromagnetic survey over the property of Silver Summit Mining Company Limited, Slocan Mining Division, Province of British Columbia.

The programme was carried out over two grids, the relative locations of which can be seen on the accompanying location map.

The first base line runs north-south with east-west picket lines turned off every 400 feet. The second is established in a south-east direction with north-east to south-west cross lines at spacings of 400 feet. In both cases where detail work was done, intermittent lines were turned off every 200 feet. All lines were chained and marked at 100 foot intervals.

Readings of dip angle were taken every 100 feet using a vertical loop electromagnetic unit. In all, a total of 19.4 miles of line were cut and 1,179 readings or 22.3 miles of electromagnetic survey were completed.

The results and the interpretation of the survey are shown on the accompanying map at a scale of one inch to four hundred feet.

PROPERTY AND LOCATION

The property of Silver Summit Mining Company Limited is located in the Trout Lake area, Slocan Mining Division in the Province of British Columbia and consists of 52 contiguous unpatented mining claims designated as follows:

PAK	# 1 - 16 inc.	9779 - 9794
ANT	# 1 - 8 inc.	9429 - 9436
MARI	# 1 - 12 inc.	9437 - 9448
SPARKLE	# 1 - 12 inc.	8435 - 8346
T	# 1 - 4 inc.	8024,8023,8025,8026

The electromagnetic survey was confined to portions of the claim group, which were indicated by the geologist who had examined the area.

Access to the property is by means of helicopter from Revelstoke, British Columbia, where there is a helicopter base.

PURPOSE

The purpose of the survey was to try and detect any lenses or bands of sulphides that could be associated with the favourable geological environment as predicated by the initial assessment of the property.

GENERAL GEOLOGY\*

The general area of the property is underlain by the Lardeau series of phyllites, schists, grits, slates, quartzites and limestones and the Kaslo group of both siliceous and calcareous schisted volcanics and sediments. The former is of Pre-Cambrian age and the latter Mesozoic. Granite forms much of the high rugged terrain and occurs in masses of batholithic proportions. Near Tenderfoot Lake a weakly schistose dyke of

peridotite, that appears to be contemporaneous or slightly younger than the granite, can be found striking parallel to the long axis of Tenderfoot Lake.

\*Report on Geological Examination on property of:-

Silver Summit Mining Company Limited,  
Sulmac Exploration Services Limited, December, 1965.

#### SURVEY SPECIFICATIONS

The basic principle of any electromagnetic survey is that when an electrical conductor is subjected to a primary alternating field, a secondary current is induced in the conductor. This in turn produces a secondary alternating field which, together with the primary field, causes a resultant field of different amplitude and phase from the primary field. Thus, a conductor would be indicated by such distortions of the primary field.

This electromagnetic survey was carried out employing a Squires vertical loop electromagnetic prospecting unit. The primary field was set up by suspending a large triangular transmitting coil, fed by a portable generator, vertically from a mast and orienting it so that it was pointed at the receiver coil position. The primary field consists of an induced alternating electromagnetic field of approximately 1000 c.p.s. over an area of approximately 2000 feet by 2400 feet with the transmitter centered within this area.

The receiver coil is then tilted about a horizontal axis until a minimum signal is obtained and the degree and direction of tilt or "dip angle" is measured by means of an attached clinometer. If there is no induced secondary field present, a minimum signal will be obtained when the receiver coil is in the horizontal position, so that any tilt or dip is indicative of a secondary field.

#### DISCUSSION OF RESULTS

The results of the reconnaissance vertical loop electromagnetic survey indicated the presence of one strong conductor and two others of weak intensity. These were further substantiated by a detailed investigation from which it would appear that the causative body is located at a shallow depth. It strikes approximately N20 W, is situated on the Kay Lake grid, is some 800 feet long, and is found on lines 68E at 1S; 66E at 2+50N; 64E at 2N, and 62E at 4N.

The weaker conductors are situated on the Tenderfoot grid and both exhibit occasional discontinuity. The one conductor axis is striking from line 0 at 4E to line 16S at 5E and the other from line 44S at 7W to line 32S at 6W. The crossover points of the conductors are marked on the map accompanying this report. All

anomalous responses are following the shear lineations and are probably primarily due to associated sulphides rather than the shear itself.


SUMMARY AND CONCLUSIONS

Sulmac Exploration Services Limited completed an electromagnetic survey over the property of Silver Summit Mining Company Limited. The results indicated the presence of one strong and two weak conductors which are shown on the accompanying map at a scale of 1 inch to 400 feet.

The geophysical survey gives no direct information as to the precise cause of the conductor. However, correlation with the geological survey shows that sulphide mineralization is likely to be present in the anomalous areas. Thus it is recommended that further investigation be carried out by diamond drilling.

Respectfully submitted,

SULMAC EXPLORATION SERVICES LIMITED

  
G.E. White, B.Sc.,  
Geophysicist.

October 4, 1966.



CERTIFICATION

TO WHOM IT MAY CONCERN

I, GLEN ELMO WHITE, of the City of Vancouver  
in the Province of British Columbia, hereby certify:

1. That I am a Geophysicist and Geologist and reside at 2390 West 7th Avenue, Vancouver, B.C.
2. That I studied Geophysics and Geology and graduated from the University of British Columbia in 1966 with the degree of B.Sc.
3. That I have been engaged in Mining Exploration for five years and have been practising as an Exploration Geophysicist and Geologist for seven months.
4. That I do not have nor do I expect to receive either directly or indirectly, any interest in the above property, or in the securities of Silver Summit Mining Company Limited.
5. That the information contained in this report is based on geological and geophysical data provided by Sulmac Exploration Services Limited.

Dated this 11th day of October



G.E. White, B.Sc.

PERSONNEL EMPLOYED ON GEOPHYSICAL SURVEY, AND DATES

<b>M. Laurin</b>	<b>Geophysical Assistant</b>	<b>July 3 - August 19, 1966</b>
<b>L. Perrault</b>	<b>Geophysical Operator</b>	<b>July 3 - August 19, 1966</b>
<b>T. Gowing</b>	<b>Geological Assistant</b>	<b>July 20 - July 30, 1966</b>
<b>I.E. Thurber</b>	<b>Geologist</b>	<b>July 3 - August 27, 1966</b>
<b>G.E. White</b>	<b>Geophysicist</b>	<b>July 15, 1966</b>
<b>C.T. Pasioka</b>	<b>Consultant</b>	<b>July 3 - 5, 1966 July 9 - 11, 1966 July 18 - 20, 1966 July 31 - August 2, 1966</b>
<b>D. Grant</b>	<b>Draftsman</b>	<b>August 29 and 30, 1966</b>
<b>J.A. Hewitt</b>	<b>Typist</b>	<b>September 5, 1966</b>

**STATEMENT OF COST**

to **\*SILVER SUMMIT MINING COMPANY LIMITED, (N.P.L.)**

**RE: Lardeau Property  
Slocan Mining Division  
British Columbia**

**2-man Geophysical Crew  
and Equipment:**

period July 3-15 @ \$100/day	\$ 1,300.00
period July 16-31 " "	1,600.00
period August 1-15 " "	1,500.00
period August 16-19 " "	400.00

**Geological Supervision  
and Services:**

(Services) period July 3-15 @ \$ 50/day	\$ 650.00
(Supervision) 7 days @ \$100/day	700.00
(Services) period July 16-31 @ \$50/day	800.00
(Supervision) 7 days @ \$100/day	700.00
(Services) period August 1-15 @ \$50/day	750.00
(Supervision) 3 days @ \$100/day	300.00
(Services) period August 16-27 @ \$50/day	600.00
(Supervision) 4 days @ \$100/day	400.00
(Supervision) 3 days @ \$100/day	300.00
(Supervision) 4 days @ \$100/day	400.00

**Travelling and  
Transportation:**

**511.35**

**Preparation of  
Topographical Map:**

**\$ 2,438.53**

**Assay Costs:**

**\$ 263.25**

**Board, Communication,  
Drafting and Miscellaneous  
Expenses:**

**\$ 826.98**

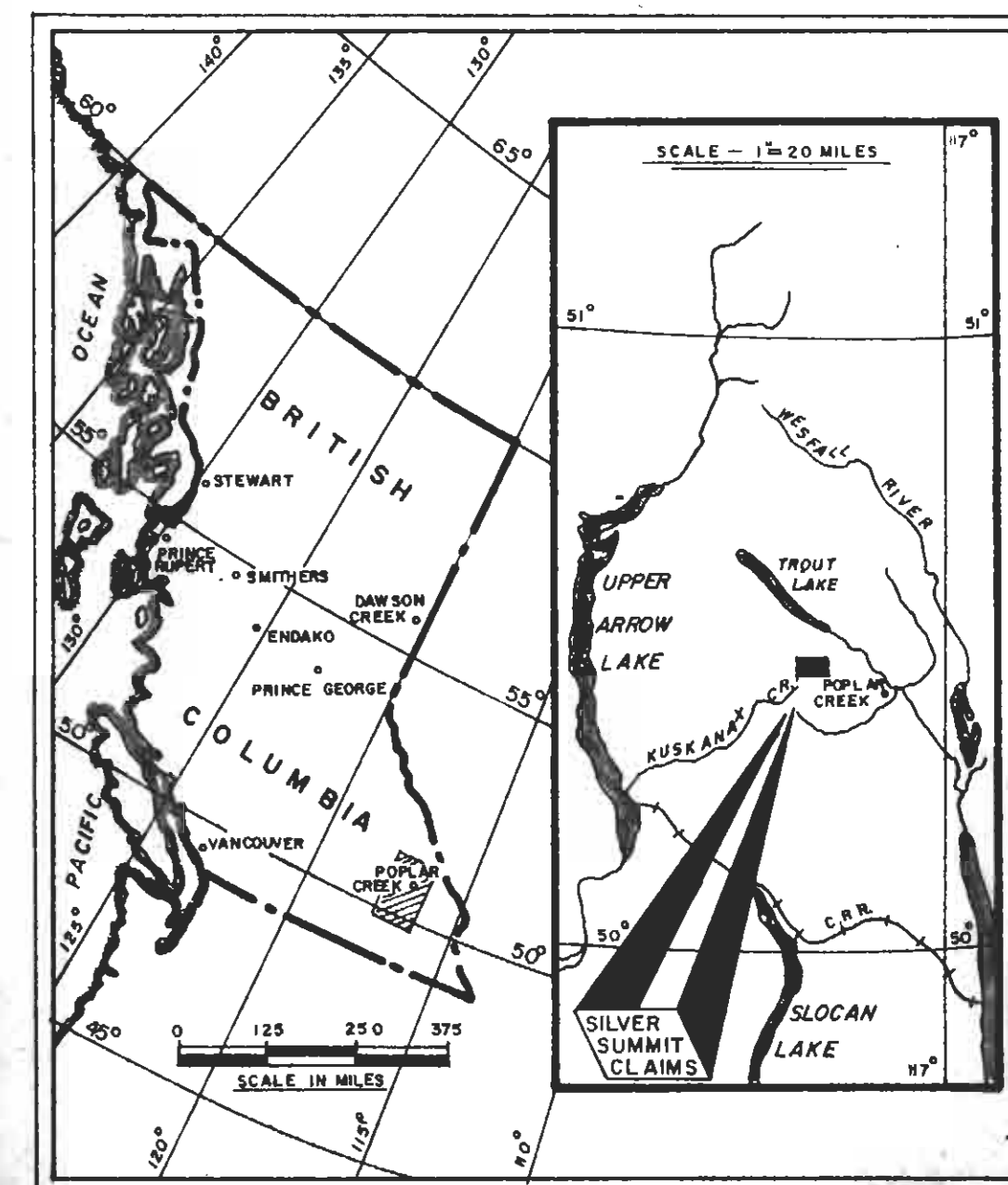
**\$ 14,440.11**

**The above was invoiced to and paid by**

**\*SILVER SUMMIT MINES LTD. (N.P.L.)\***

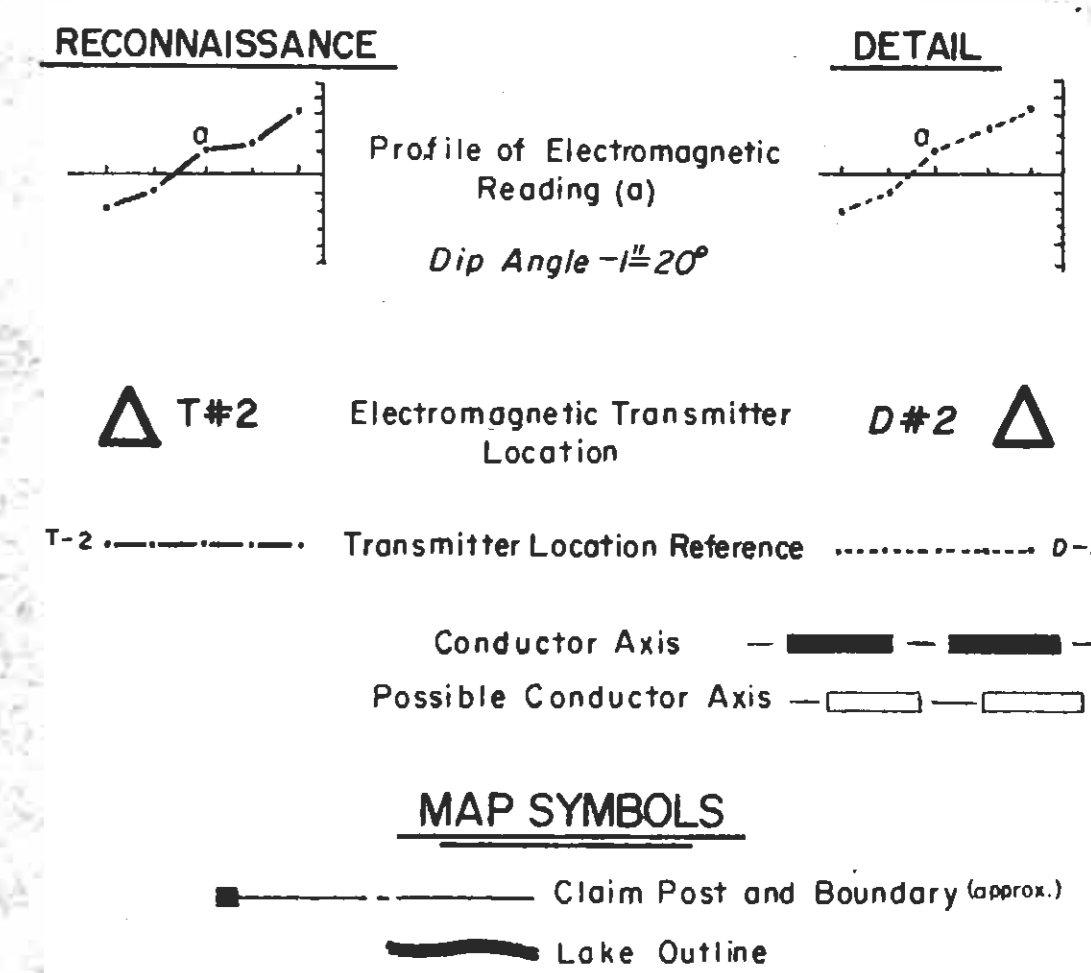


LOCATION MAP



LEGEND

ELECTROMAGNETIC SURVEY



TO ACCOMPANY REPORT BY GLEN WHITE, DATED OCT. 4, 1966.

**SILVER SUMMIT MINING COMPANY LIMITED**  
 MOSES CREEK  
 POPLAR CREEK, BRITISH COLUMBIA  
 FROST LAKE MINING DIVISION  
 SLOCAN

VERTICAL LOOP  
**ELECTROMAGNETIC SURVEY**

915

