

REPORT ON

PRELIMINARY GEOPHYSICAL

WORK CONDUCTED ON

THE TATLER MINERAL CLAIM GROUP

50° 25'  
116° 30'

GOLDEN M.D., BRITISH COLUMBIA

82K 7E, 8W  
by

Douglas Wood, B.Sc.

FILMED

NOVEMBER 10, 1985

# Silver Falls Res. Ltd. - owner/operator.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

14,574

### SUMMARY

The Silver Falls Resources Ltd. Tatler Claims Group property is located approximately thirty-five kilometers southwest of Invermere, B.C. at the headwaters of Farnham Creek within the Golden Mining Division.

A preliminary magnetometer survey was completed over a portion of the property by the author and his crew on October 16, 1985. In addition, the lowermost portion of an access road to the claims was brushed out to determine the possibility of using this road during exploration programs planned for the coming season.

Analysis of magnetometer data indicates a possible correlation between magnetic field strength and the geological and mineralogical setting of the Tatler claims.

At the present time, the access road to the claims up the Farnham Creek valley is not serviceable due to several wash-outs. The first of these wash-outs occurs approximately 2 kilometers from the beginning of the access road at Horsethief Creek. The upper portions of the road were examined from the air and it is felt that the road could be made serviceable at a reasonable cost to Silver Falls Resources Ltd.

Respectfully submitted,



Douglas H. Wood, B.Sc.  
Consulting Geologist

November 10, 1985

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## INTRODUCTION

Pursuant to a request from the directors of Silver Falls Resources Ltd., a mineral exploration program consisting of a preliminary magnetometer survey and road clearing was conducted over the Tatler claim group near Invermere on October 15, 16, and 17, 1985.

The purpose of this report is to present the results of preliminary geophysical survey work performed, and to relate these results to the geological setting and copper-barite-silver mineralization known to occur on the property.

## LOCATION AND ACCESS

The Tatler Claims Group comprise 11 grouped reverted crown granted mineral claims and one crown granted claim (Table I) within the Golden Mining Division, British Columbia (Figure 1).

The center of the property is located at approximately 50 degrees 24' North latitude and 116 degrees 30' West longitude. The claims are some 35 km west of Invermere, B.C.

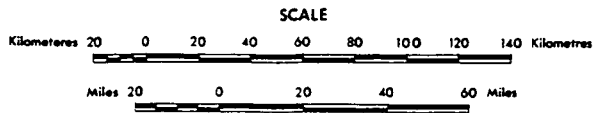
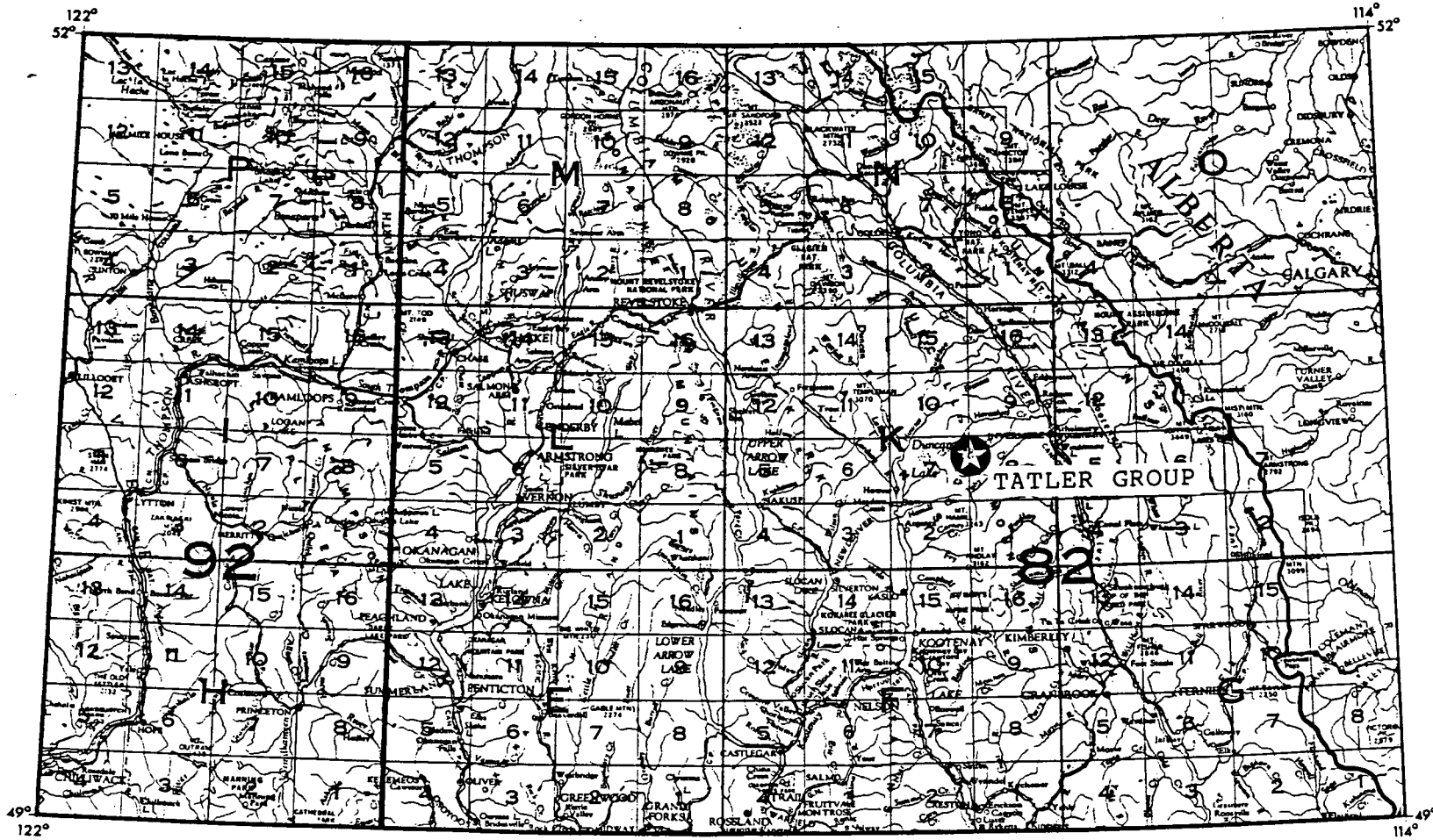
At present the claims can be accessed only by helicopter from the Frontier Helicopters base at Fairmont Hot Springs. All weather gravel logging roads within the Horsethief Creek valley and a drill access road built in the late 1960's could provide vehicle access to the property, but at present the last 10 km of the road is partially overgrown. The road could be repaired at a reasonable cost to Silver Falls Resources should future exploration indicate significant grades of mineralization.

## CLIMATE AND TOPOGRAPHY

The climate of the Tatler claims area is typical of that found at higher elevations within the Purcell Mountains. Winter temperatures are severe and snowfall deep (greater than 10 meters). Summer temperatures range from 15 to 30 deg. C with only slight rainfall.

Due to adverse winter conditions, the exploration season on the Tatler claims is limited to the period between mid July and late September. At the time this survey was completed much of the higher levels on the property were covered to an excess of 1 meter by dry powder snow.

Topography in the Tatler claims area is steep, however the ground covered by the claims is fairly moderate. Elevations range from 1980 meters on the Great Northern claim (L5358) to 2740 meters on the White Bear claim (L9987).



SILVER FALLS RESOURCES LIMITED

FIGURE 1: LOCATION MAP

TABLE I

Tatler Claims

<u>Name</u>	<u>Record Number</u>
World's Fair	500
Great Northern	501
White Bear	502
Butler	503
Iron Mask	504
Imperial	505
Copper King	526
Master	527
Broken Hill	528
North Light	529
Wilderness	1536
Betsy Fraction	lot# 9995

Outcrop exposure is abundant (greater than 20%) over most of the property area due to the alpine nature steepness of the area.

### TIMBER, POWER, AND WATER

Water supplies are plentiful and hill sides at lower elevations on the property are covered with sufficient stands of fir and pine for mining purposes.

The nearest source of hydro-electric power is presently 35 km to the east in the Columbia River Valley. The high cost of bringing this power to the Tatler claims necessitates the use of diesel power for any mining activity on the property.

### GENERAL PROPERTY GEOLOGY

The rock types exposed on the Tatler claims are classified by the Geological Survey of Canada (Reesor, 1957) as belonging within the Toby Formation of the lower Windermere Group and the Mt. Nelson Formation of the upper Purcell Group. Both the Windermere and Purcell Groups are of late PreCambrian Age. The Toby Formation consists of polymictic conglomerate with a matrix of quartzite, argillite, and limestone. The Mt. Nelson Formation is comprised of buff to orange weathering, grey dolomitic limestone with minor argillite, slate and quartzite.

The dominant structure in the area is a broad northwesterly trending anticline which spans the eastern and central portion of the Tatler claims area. Two relatively closely spaced normal faults can be traced from the property area for approximately 8 km to the south.

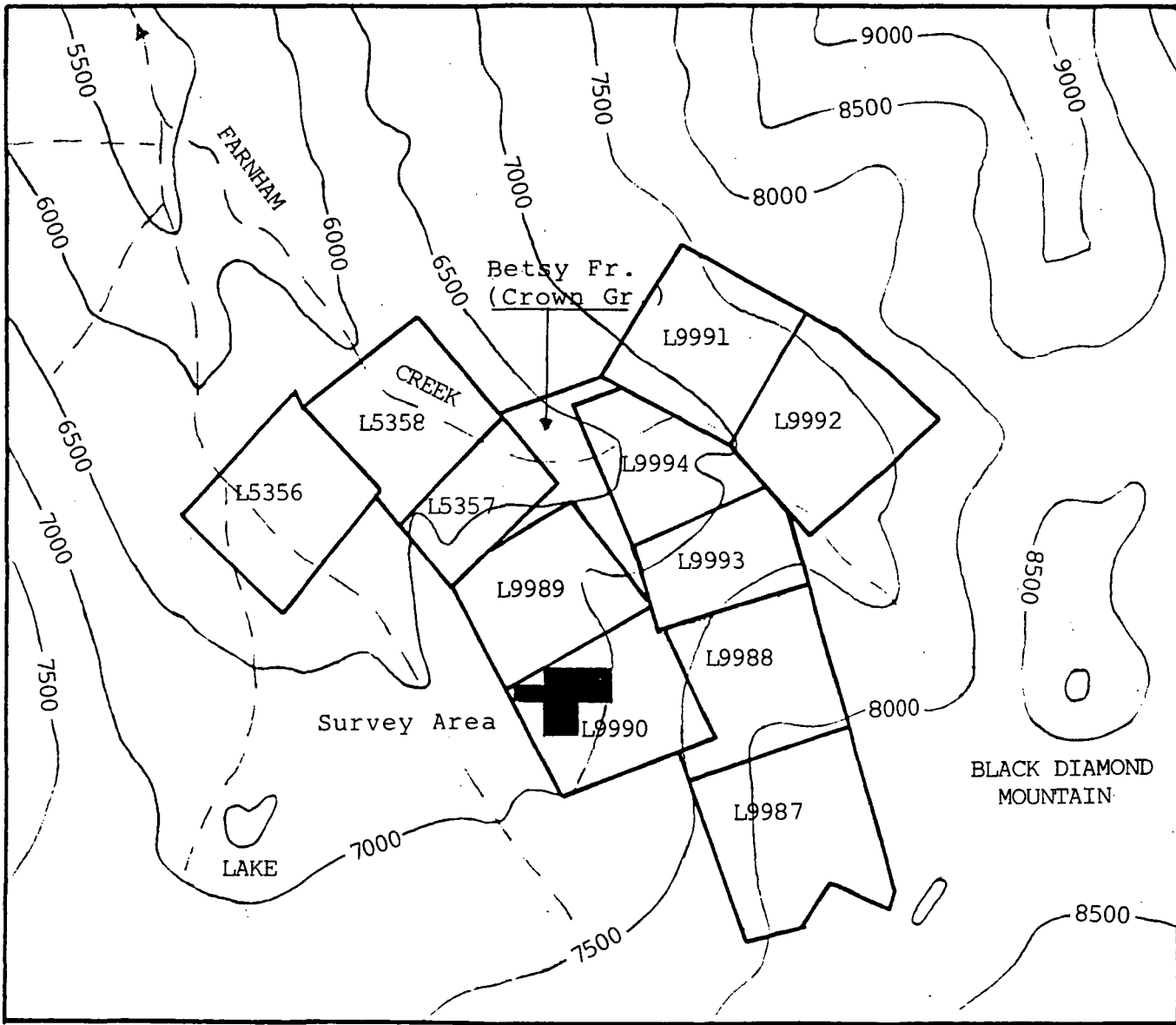
Mineralization on the property occurs as replacement bodies which form where fault related quartz-barite veins intersect favorable horizons within the Mt. Nelson Formation.

For a more detailed explanation of the geology and mineralization on the Tatler claims the reader is referred to September 1983 "Geological Report on the Tatler Group Property" by Thomas R. Tough, P.Eng.

### GEOPHYSICAL SURVEY

A magnetometer survey was conducted over a small portion of the Master claim (L9990) to determine the advisability of using magnetics in future exploration programs. The survey was conducted using a Scintrex model MP-2 proton precession magnetometer.

A total of 650 meters of east-west grid lines were emplaced



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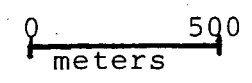


FIGURE 2  
CLAIM MAP

D.W.

OCT. 1985



near the NE corner of the Master claim (figure 2). Stations were established and readings taken at 25 meter intervals on the grid lines for a total of 30 readings. A base station was maintained at station 0+00 on Line 0, and all lines were looped to correct for diurnal variation. Variation at the base station was on the order of 10 gammas, so correction was deemed to be unnecessary.

Magnetometer readings from the survey were plotted and contoured at ten gamma intervals (figure 3). Visual analysis of the contoured readings indicates that small variations in field strength (approximately 30-60 gammas) follow a roughly north-south linear trend. This corresponds well with north-south VLF-EM conductors reported by R.H. Parker in his July 1970 report on other portions of the Tatler claims.

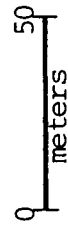
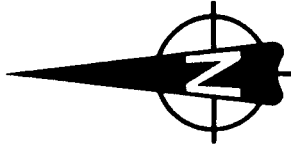
Due to the presence of in excess of 1 meter of snow at the time this survey was completed, it was not possible to correlate magnetometer data directly with geology. Mr. T.R. Tough in his 1983 report on the Tatler claims reports that preliminary mapping indicates the presence of northerly trending normal faults and geological stratification.

This survey is intended as a preliminary investigation only. The results obtained indicate a possible correlation between magnetic field strength and either stratification or faulting. A larger survey covering the entire claims area would be needed to draw conclusions as to the presence of mineralization accompanied by magnetic field strength anomalies.

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RESOURCES LIMITED

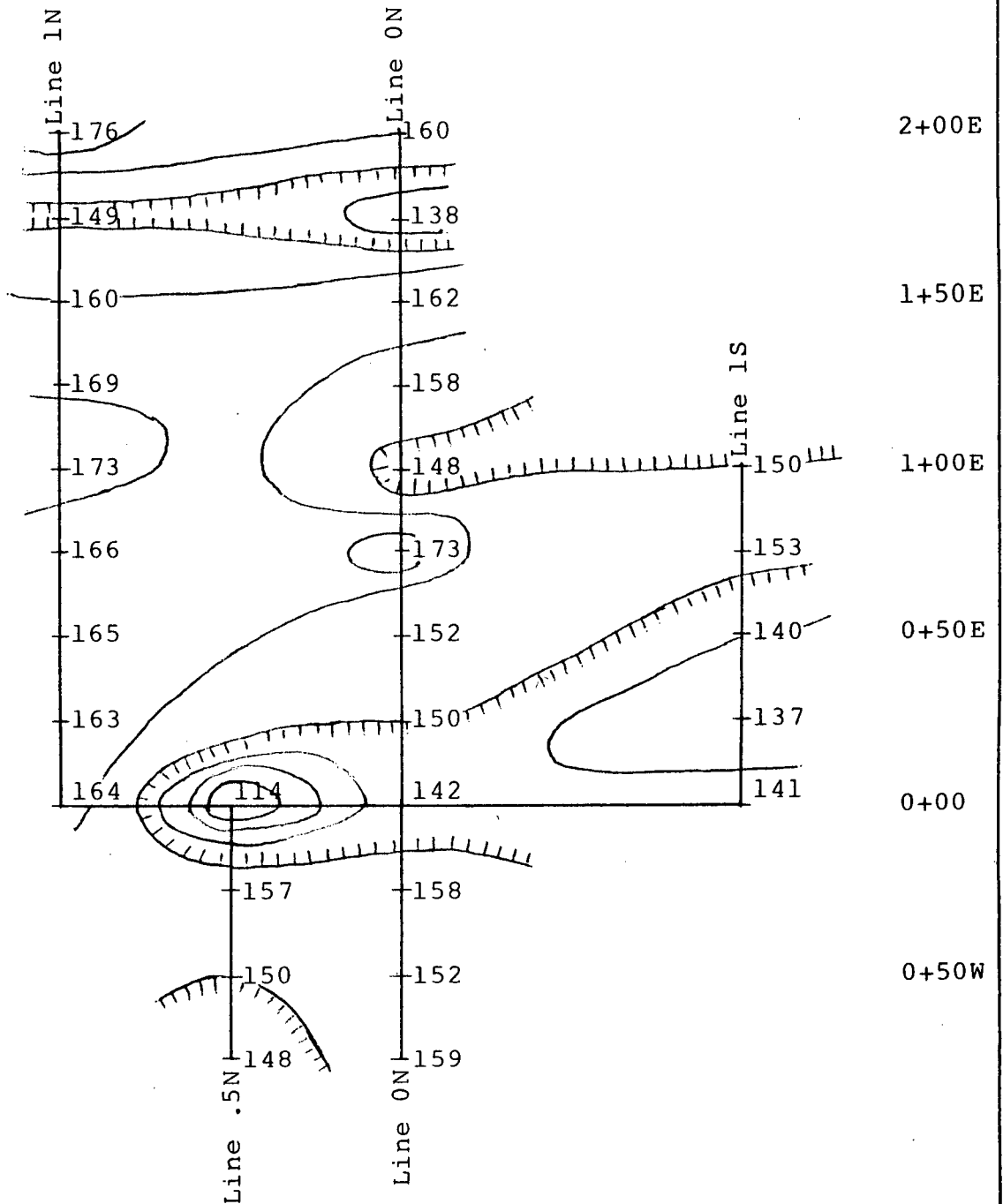
TATLER GROUP

FIGURE #3  
MAGNETOMETER SURVEY



CONTOUR INTERVAL = 10 Gammas  
DATUM = 58,000 Gammas

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## CONCLUSIONS AND RECOMMENDATIONS

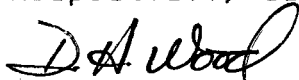
Analysis of the results of this survey indicate the possibility that a magnetometer survey covering the claims in their entirety could prove useful as an exploration tool on the Tatler claims.

Contoured magnetometer field strength readings indicate a possible correlation between magnetic field strength and the geological and mineralogical setting of the Tatler claims.

It is recommended that a magnetometer survey be completed over the property area in conjunction with the exploration program proposed by Mr. T.R. Tough, P.Eng. in his September 1983 report on the Tatler Group.

If the survey is completed at the same time as other exploration programs it could be done at minimal extra cost to Silver Falls Resources Ltd. (approximately \$1000 over and above the \$25,000 suggested by Mr. Tough).

Respectfully Submitted



Douglas H. Wood, B.Sc.  
Consulting Geologist

November 10, 1985

CERTIFICATE

I, Douglas Harold Wood, of the city of Vancouver, Province of British Columbia, hereby certify as follows:

1. I am a Consulting Geologist with offices at 808-1844 Barclay Street, Vancouver, British Columbia, Canada.
2. I graduated from the University of British Columbia in 1981 and hold the degree of Bachelor of Science in Geology.
3. I am an Associate in good standing of the Geological Association of Canada.
4. I worked as a Geological Assistant each summer from May 1977 to September 1981 with Cities Service Minerals Ltd. and the Geological Survey of Canada.
5. I have worked continuously as a Geologist from May 1982 to present on numerous projects throughout Canada and the western United States.
6. This report, dated November 10, 1985, is based on field examinations made by myself on October 15, 16, and 17, 1985, and a study of available public and private data and reports pertaining to the area.

Dated at Vancouver, Province of British Columbia, this 10th day of November, 1985.



D.H. Wood, B.Sc.

Consulting Geologist

## REFERENCES

Publications and reports, public and private, available to the writer and containing information pertinent to the property area and subject of this report are as follows:

**Parker, R.H. (1970)**

ULF-EM Survey of the Tatler Claims for Jumbo Mines Ltd., Golden Mining Div., B.C.

**Reesor, J.E. (1957)**

Geology of the Lardeau Map Area (East Half); Geological Survey of Canada, Map 1957-12

**Walker, J.F. (1926)**

Geology and Mineral Deposits of Windermere Map Area, B.C.; Geological Survey of Canada, Memoir 148.

**Tough, T.R. (Sept. 11, 1983)**

Geological Report on the Tatler Group Property, Golden Mining Division, B.C. for Silver Falls Resources Ltd.

APPENDIX A

STATEMENT OF COSTS

STATEMENT OF COSTS

TATLER PROJECT

WAGES

D.H. Wood	(5 days @ \$150/day)	\$750.00
M.M. Pardek	(5 days @ \$150/day)	750.00
L. Wong	(5 days @ \$150/day)	750.00
Vehicle Rental	(5 days @ \$ 80/day)	676.50
Vehicle Fuel		223.40
Helicopter Charter	(1.7 hrs @ \$450/hr)	756.00
Helicopter Fuel		85.00
Magnetometer Rental	(5 days @ \$40/day)	100.00
Food and Accomodation		263.17
Field supplies and equipment		110.53
Report preparation		450.00

**Total Costs** **\$ 4,914.60**

Dated at Vancouver, Province of British Columbia, this 10th day  
of November, 1985.

*D. H. Wood*

Douglas H. Wood, B.Sc.

Consulting Geologist

APPENDIX B

GEOPHYSICS DATA



Base Station @ 10:23 AM = 58142 gammas

Line 0N (East from Base Stn.)

Station	Reading	Station	Reading
0+00E	58142	0+25E	58150
0+50E	58152	0+75E	58173
1+00E	58148	1+25E	58158
1+50E	58162	1+75E	58138
2+00E	58160		

Line 1N

2+00E	58176	1+75E	58149
1+50E	58160	1+25E	58169
1+00E	58173	0+75E	58166
0+50E	58165	0+25E	58163
0+00E	58164		

Line 0N (West from Base Stn.)

0+00W	58147	0+25W	58158
0+50W	58152	0+75W	58159

Line .5N

0 75W	58148	0+50W	58150
0+25W	58157	0+00W	58114

Line 1S

0+00E	58141	0+25E	58137
0+50E	58140	0+75E	58153
1+00E	58150		

Base Station @ 12:35 PM = 58141 gammas