

5872

A S S E S S M E N T R E P O R T

on

BEV AND TW CLAIMS AND LEASES

729 and 2879

GREENWOOD MINING DIVISION

BRITISH COLUMBIA. 82E/E½

LONGITUDE 118° 37' W

LATITUDE 49° 03' N

for

SILVER FALLS RESOURCES INC.

Department of  
Mines and Petroleum Resources  
ASSESSMENT REPORT

NO. 5872 MAP.....

by

James W. McLeod, B.Sc.

June 7, 1976.

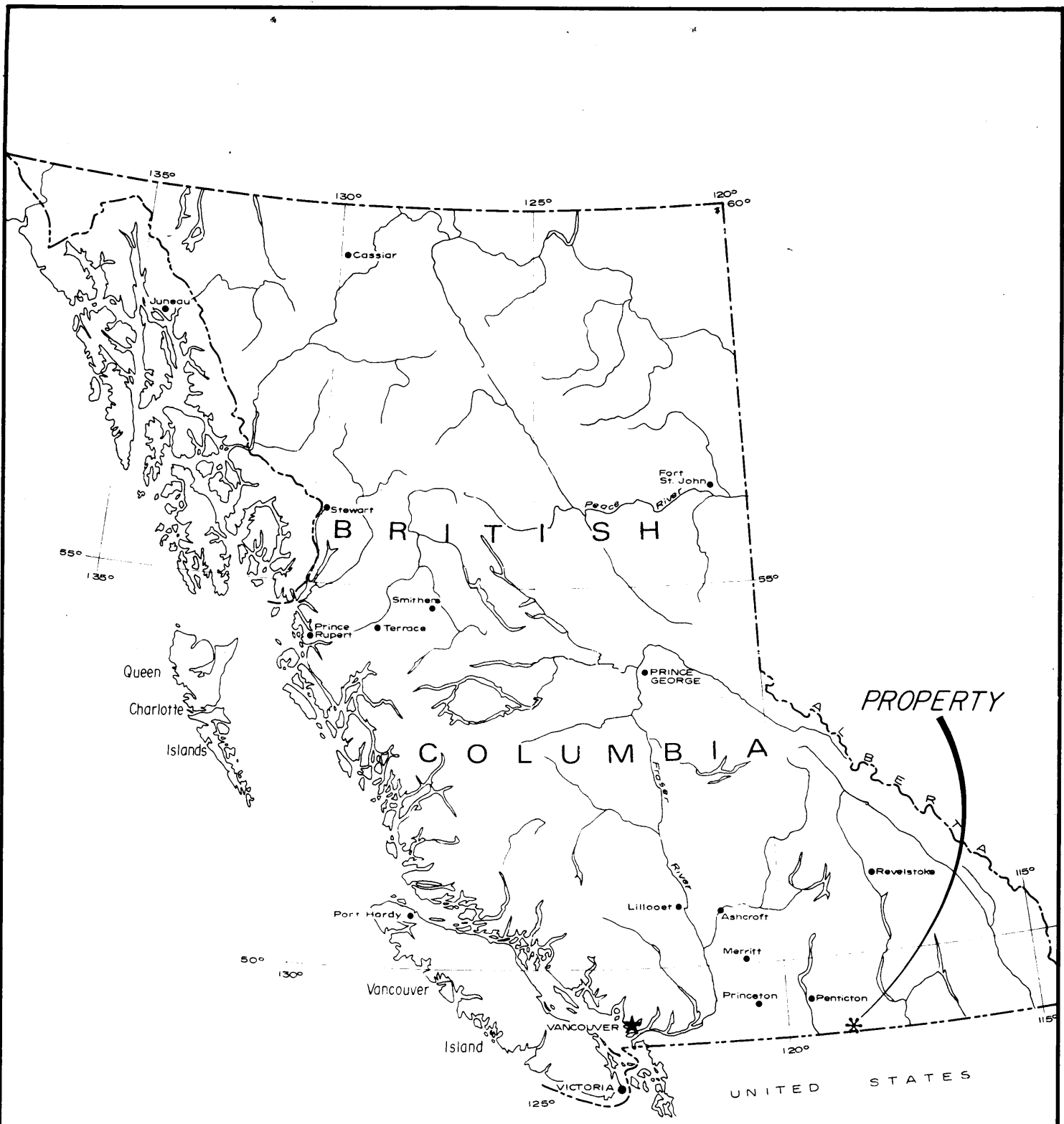


FIG. 1  
 SILVER FALLS RESOURCES LTD.  
 FANNY JOE & SUNNYSIDE LEASES  
**GENERAL LOCATION MAP**  
 GREENWOOD M.D., B.C.



## TABLE OF CONTENTS

INTRODUCTION .....	1
LOCATION AND ACCESS .....	1
PROPERTY AND OWNERSHIP .....	1
TOPOGRAPHICAL AND PHYSICAL ENVIRONMENT .....	2
GEOLOGY .....	2
1. General	
2. Local	
MINERALIZATION .....	3
WORK PROGRAM .....	3
1. Physical Work	
2. Geology and Prospecting .	
3. Geochemical Soil and Magnetometer Surveys	
GEOCHEMICAL SOIL AND MAGNETOMETER SURVEY METHODS .....	4
DISCUSSION OF DATA .....	5
COST OF PROGRAMS .....	6
PERSONNEL .....	7
CERTIFICATE .....	8

## APPENDIX

1. GEOCHEMICAL SOIL AND ROCK SAMPLE RESULTS	I
2. MAGNETOMETER READINGS	2

## FIGURES

1. Index Map
2. Claim Group Map
3. L. 2879 Geochemical and  
Magnetometer Grid Plan
4. L. 2879 Geology Map
5. BEV #2 Geology, Geochemical and  
Magnetometer Grid Plan

INTRODUCTION

From May 16 to May 26, 1976, a work program was conducted over the Bev 1 - 6, TW 1 - 16 mineral claims and leases 729 and 2879.

The work was carried out under the supervision of the writer and at the request of the directors of Silver Falls Resources Ltd., of Vancouver, B.C.

LOCATION AND ACCESS

The property is located 5.6 airkilometers at N 130° from Greenwood, B.C. on both the north and south - facing slopes of Attwood Mountain.

Access to the property may be gained by travelling approximately 19.7 Kilometers from Greenwood, B.C. on the gravel-surfaced, Lind Creek road or by travelling approximately 13 Kilometers on the gravel-surfaced McCarran Creek road.

PROPERTY AND OWNERSHIP

The property consists of the Bev 1 - 6 and TW 1 - 16 mineral claims and mineral leases 729 and 2879.

The group is owned by Silver Falls Resources Ltd. of Vancouver, B.C.

## TOPOGRAPHICAL AND PHYSICAL ENVIRONMENT

The property lies between 1200 meters and 1600 meters M.S.L. in rounded, moderately mountainous terrain. The south-facing slopes in this area are much more sparsely wooded with mainly coniferous trees.

The claim area experiences moderate precipitation.

## GEOLOGY

### 1. GENERAL:

The general geology of the property as described by LITTLE, G.S.C. Map 6 - 1957, KETTLE RIVER, East Half, is as being underlain by Permian rocks assigned to the Anarchist Group. The rocks comprising the Anarchist Group at this location are greenstone, greywacke, limestone and paragneiss.

### 2. LOCAL

The rocks observed on the property are mainly sediments (Anarchist Group) and intruding fine to medium grained diorite which are probably phases of the Nelson Intrusives. The close proximity of the intrusive rocks to the areas of mineralization, mainly as replacement zones in the limestone, suggests an intimacy between these rock types, the intrusive could be the cause of the replacement zones.

## MINERALIZATION

Three areas of mineralization were encountered. In each case the metallic minerals encountered were present in differing amounts.

1. Pyrite, minor chalcopyrite and sphalerite in a light green, siliceous sheared sediment, approximately 1.2 meters in width (See Figure 5), marked 'PIT'. This material was not assayed.
2. Galena, sphalerite, magnetite, chalcopyrite in a limestone zone. (See Figure 4), marked 'PIT A' and 'MAIN'.
3. Chalcopyrite, pyrrhatite and minor arsenopyrite in a skarny, limestone zone (See Figure 4), marked 'PIT B'.

## WORK PROGRAM

1. Physical Work

Both roads to the property were cleared and repaired to allow vehicle access. The work entailed clearing deadfalls and filling washouts. The trenches and pits were cleaned out and extended to allow examination and sampling.

## 2. Geology and Prospecting

The areas where mineralization was found to occur were mapped and sampled.

The entire claim area was prospected.

## 3. Geochemical Soil and Magnetometer Surveys

The three areas where mineralization was encountered had 30 meter - spaced lines installed over them and geochemical soil samples and magnetometer readings were taken at 30 meter intervals along the lines (See Figures 3 and 5).

### Geochemical Soil and Magnetometer Survey Method

A total of 62 soil and 5 rock samples were taken. All soil samples were taken from the 'B' soil horizon.

The samples were placed in brown kraft bags and taken to Vancouver Geochemical Laboratories Ltd., 1521 Pemberton Avenue, North Vancouver, B.C. V7P 2S3. The soil samples were dried and screened to 80 mesh and analyzed for copper, lead and gold (See Appendix I). The metals were brought into solutions by a standard method and subsequently analyzed on an atomic absorption unit.

The magnetometer used in the survey was a Geometrics - Model G110 unit. The stations are the same ones as used for the geochemical survey (See Figures 3 and 5 for the locations) and (Appendix II for the values).

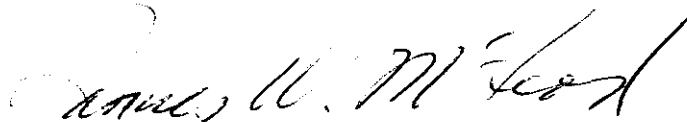


DISCUSSION OF DATA

The two mineral showings marked "Pit A", 'Main' and 'Pit B' are sufficiently mineralized to warrant further investigation by possibly shallow diamond core drilling to see if they have any depth.

The geochemical soil survey and the magnetometer survey did not add lateral size to the areas of mineralization, therefore these types of surveys are not recommended for further use on this property.

Respectfully submitted

A handwritten signature in cursive script, appearing to read "James W. McLeod".

James W. McLeod, Geologist

COST OF PROGRAM

Wages	\$ 3,900.00
Camp and board	480.00
Meals on road	30.00
Equipment rental; magnetometer	
gas plugger, 2 chain saws	350.00
Truck rental and mileage	246.00
Car mileage	72.00
Fuels and Supplies	130.00
Geochemical Analyses	384.00
Report and Maps	220.00
	<hr/>
	\$ 5,812.00
	<hr/> <hr/>

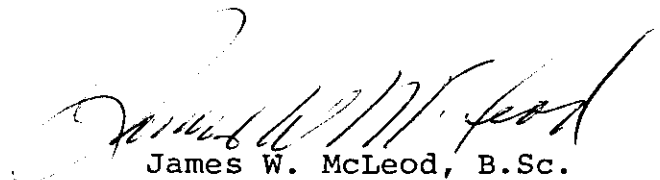
PERSONNEL

- Terry Wrixon - Vancouver, B.C.  
20 years experience as a prospector and  
geochemical assistant. \$65.00/day.
- John Young - Vancouver, B.C.  
10 years experience as a geophysical  
technician. \$75.00/day.
- Doug. Hopper - Vancouver, B.C.  
12 years experience as a geological  
technician, Haileybury School of Mines  
\$75.00/day.
- Syd Visser - Vancouver, B.C.  
10 years experience as a geological  
technician, Haileybury School of Mines.  
\$65.00/day.

CERTIFICATE

I, JAMES W. McLEOD, of the City of Vancouver,  
Province of British Columbia, hereby certify as follows:-

1. I am a geologist and an Associate Member of the Geological Association of Canada.
2. I reside at 4086 West 17th Avenue, Vancouver, B.C.
3. I graduated in 1969 from the University of British Columbia, B.Sc. (Major - Geology).
4. I do not have any shares of Silver Falls Resources Ltd. nor do I expect to receive any as a result of doing this report.
5. The above report is based on fieldwork and research performed by myself from May 14 to May 26, 1976.

  
James W. McLeod, B.Sc.

DATED AT VANCOUVER, B.C. this 7th day of June, 1976.



VANGEOCHEM LAB LTD.  
 1521 PEMBERTON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

TELEPHONE: 988 2172  
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

# Certificate of Geochemical Analyses

-IN ACCOUNT WITH-  
 Silver Falls Resources Ltd.,  
 # 625 - 510 West Hastings Street,  
 Vancouver, B. C. V6B 1L8

Attention:

Report No: 76 82 001 Page 1 of 2  
 Samples Arrived: June 2, 1976  
 Report Completed: June 4, 1976  
 For Project:  
 Analyst: E.T., R.N.  
 Invoice # 3725 Job # 76-40

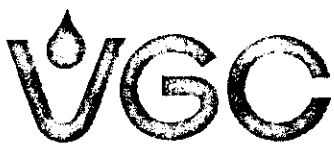
Sample Marking	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	
Pit A	1100	4200	22500	54.0	1955	Saddle
Pit B	1060	60	120	2.0	150	
S - 1	20	138	127	2.4	nd	
1 NH 75 E	42	50	55	1.6	nd	
Main	1900	22000	27800	30.0	165	
00 + 00	23	23	-	-	nd	
1 + 00 E	22	35	-	-	nd	
2	5	10	-	-	15	
3	9	14	-	-	10	
4	14	20	-	-	10	
5	30	23	-	-	10	
6	21	47	-	-	70	
7	26	23	-	-	10	
8 + 00 E	25	30	-	-	10	
1 + 00N-00 + 00E	11	22	-	-	nd	
1	17	16	-	-	nd	
2	16	15	-	-	nd	
3	7	16	-	-	nd	
4	16	25	-	-	nd	
1 + 00N- 5 + 00E	18	23	-	-	nd	
1 + 00N- 6 + 00E	18	18	-	-	nd	
7	32	20	-	-	10	
1 + 00N- 8 + 00E	26	25	-	-	nd	
1 + 00N- 1 + 00W	16	15	-	-	nd	
1 + 00S-00 + 00E	45	33	-	-	nd	
1	27	120	-	-	15	
2	30	34	-	-	15	
3	30	23	-	-	60	
4	58	20	-	-	nd	
5	23	20	-	-	nd	
1 + 00S- 6 + 00E	17	12	-	-	nd	
2 + 00S-00 + 00E	21	16	-	-	15	
1	24	36	-	-	nd	
2	23	27	-	-	25	
3	62	30	-	-	10	
4	38	24	-	-	15	
5	47	27	-	-	nd	
2 + 00S- 6 + 00E	35	18	-	-	nd	
2 + 00S- 1 + 00W	23	42	-	-	nd	

REMARKS: ppb = parts per billion = 1000 x ppm.

Signed:

% Mo x 1.6683 = % MoS<sub>2</sub>      1 Troy oz./ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million  
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

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-IN ACCOUNT WITH-  
 Silver Falls Resources Ltd.

Report No: 76 82 001 Page 2 of 2  
 Samples Arrived:  
 Report Completed:  
 For Project:  
 Analyst:

Attention:

Sample Marking	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	
2 + 00S- 2 + 00W	9	20	-	-	nd	Pit
0 - 0	50	20	-	-	10	
0 L - 1 N	36	23	-	-	nd	
2	41	22	-	-	nd	
3	66	23	-	-	nd	
4	35	21	-	-	nd	
0 L - 5 N	32	24	-	-	nd	
1 W - 0	28	18	-	-	10	
1 N	25	15	-	-	nd	
2	27	17	-	-	nd	
3	53	32	-	-	30	
4	26	22	-	-	nd	
5 N	34	20	-	-	nd	
1 S	36	18	-	-	nd	
2	26	20	-	-	10	
3	27	17	-	-	nd	
1 W - 4 S	30	20	-	-	nd	
2 W - 0	27	16	-	-	nd	
1 N	32	20	-	-	nd	
2 W - 2	27	23	-	-	nd	
2 W - 3	17	13	-	-	120	
4	20	15	-	-	nd	
5 N	33	18	-	-	10	
1 S	28	15	-	-	10	
2	29	20	-	-	nd	
3	25	18	-	-	nd	
4 S	35	23	-	-	nd	
2 W - 5 S	60	40	-	-	nd	

MASTER PRINTING LTD

REMARKS:

Signed:

% Mo x 1.6683 = % MoS<sub>2</sub>      1 Troy oz./ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million  
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

APPENDIX 2

MAGNETOMETER READINGS

Relate to Figure 3

<u>STATION</u>	<u>READING</u>	<u>STATION</u>	<u>READING</u>
00 + 00	5461	1 + 00N - 1 + 00W	5435
1 + 00E	5463	1 + 00S - 00 + 00E	5441
2 + 00E	5446	1 + 00S - 1 + 00E	5458
3 + 00E	5472	1 + 00S - 2 + 00E	5469
4 + 00E	5459	1 + 00S - 3 + 00E	5471
5 + 00E	5462	1 + 00S - 4 + 00E	5465
6 + 00E	5485	1 + 00S - 5 + 00E	5469
7 + 00E	5462	1 + 00S - 6 + 00E	5464
8 + 00E	5465	2 + 00S - 00 + 00E	5424
1 + 00N - 00E	5457	00S - 1E	5408
1 + 00N - 1E	5430	00S - 2E	5418
1 + 00N - 2E	5435	00S - 3E	5426
1 + 00N - 3E	5447	00S - 4E	5420
1 + 00N - 4E	5463	00S - 5E	5454
1 + 00N - 5E	5454	11 - 6E	5429
1 + 00N - 6E	5459	2 + 00S - 1 + 00W	5410
1 + 00N - 7E	5439	00S - 2 2 00W	5405
1 + 00N - 8E	5458		

APPENDIX 2

MAGNETOMETER READINGS

Relate to Figure 5

<u>STATION</u>	<u>READING</u>	<u>STATION</u>	<u>READING</u>
0 - 0	5490	- 3S	5398
0L - 1N	5474	- 4S	5424
- 2N	5506	2W - 0	5347
- 3N	5453	- 1N	5346
- 4N	5473	- 2N	5310
- 5N	5412	- 3N	5424
1W - 0	5392	- 4N	5361
- 1N	5421	- 5N	5374
- 2N	5413	- 1S	5437
- 3N	5367	- 2S	5426
- 4N	5446	- 3S	5438
- 5N	5430	- 4S	5485
- 1S	5315	- 5S	5454
- 2S	5425		



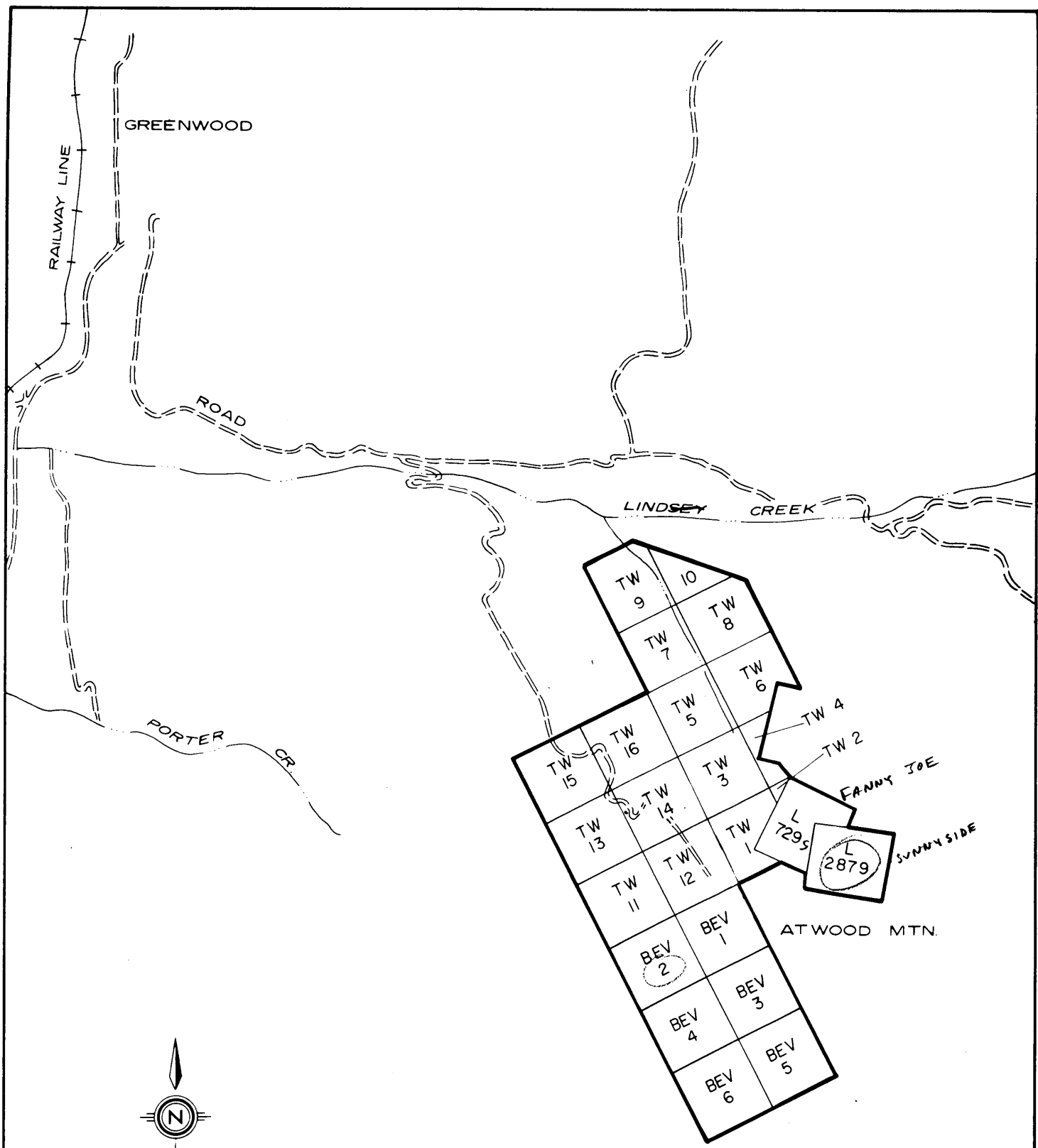


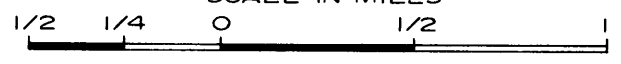
FIG. 2

SILVER FALLS RESOURCES LTD.

CLAIM GROUP MAP

GREENWOOD M.D., B.C.

SCALE IN MILES



*J. M. Lead, Geologist  
June 10, 1976*

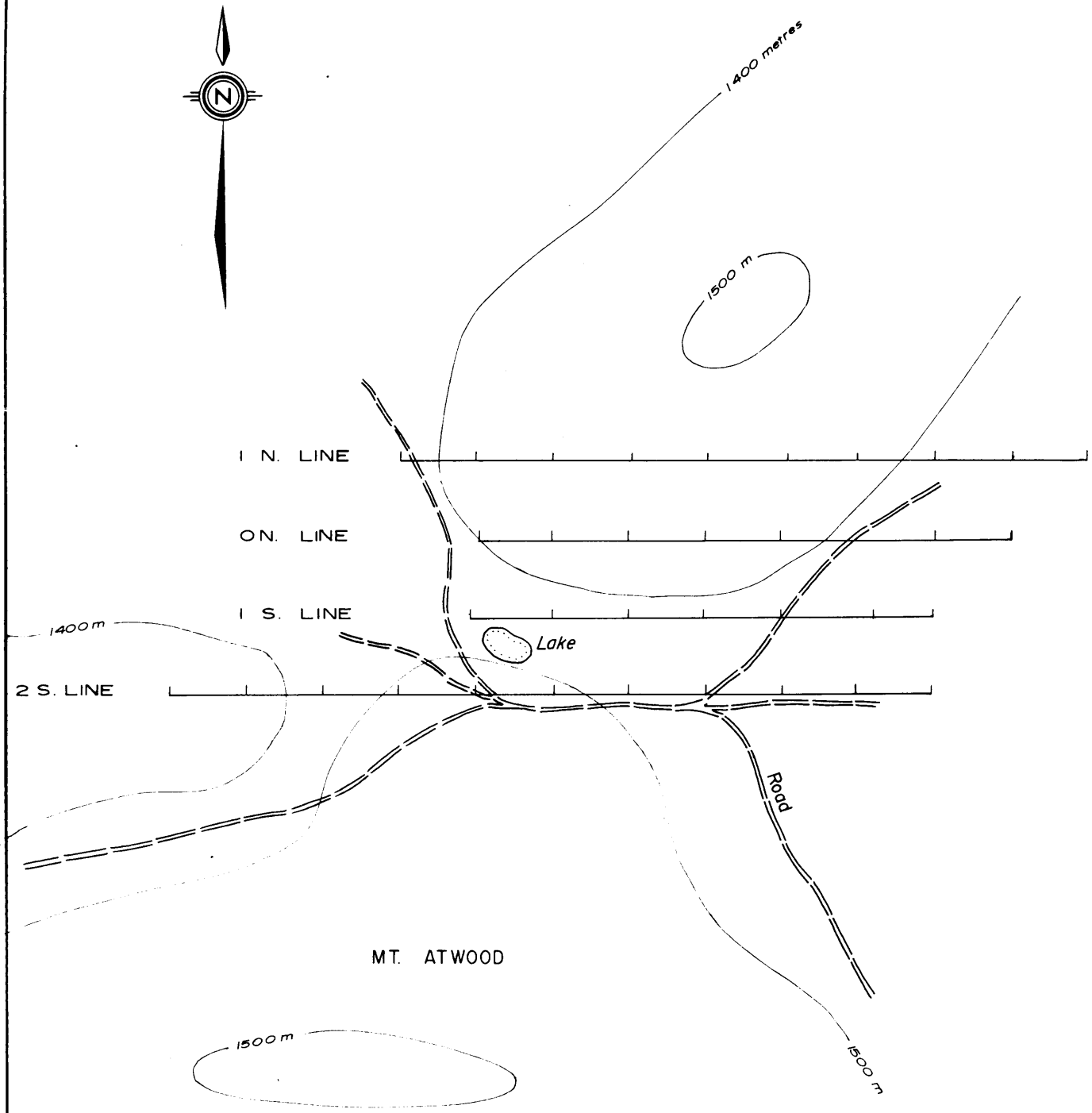


FIG. 3

SILVER FALLS RESOURCES LTD.  
 LEASE 2879  
 GEOCHEMICAL SOIL &  
 MAGNETOMETER GRID PLAN

*D. McLeod, Geologist  
 June 10, 1976*

GREENWOOD M.D., B.C.  
 SCALE IN METRES





1400 metres

1500 m

Green fine grained sediments

N.130°/50°N.

1 N. LINE

U X

LIMESTONE

ON. LINE

U A

MAIN

1 S. LINE

Lake

B

1400m

2 S. LINE

0 M

Medium to fine grained diorite

Road

MT. ATWOOD

1500 m

1500 m

LEGEND

X Sample location number

Bedding

Trenches

Limestone

Green fine grained sediments } Anarchist Grp

Nelson Intrusives

Strike and dip of shear.

FIG. 4

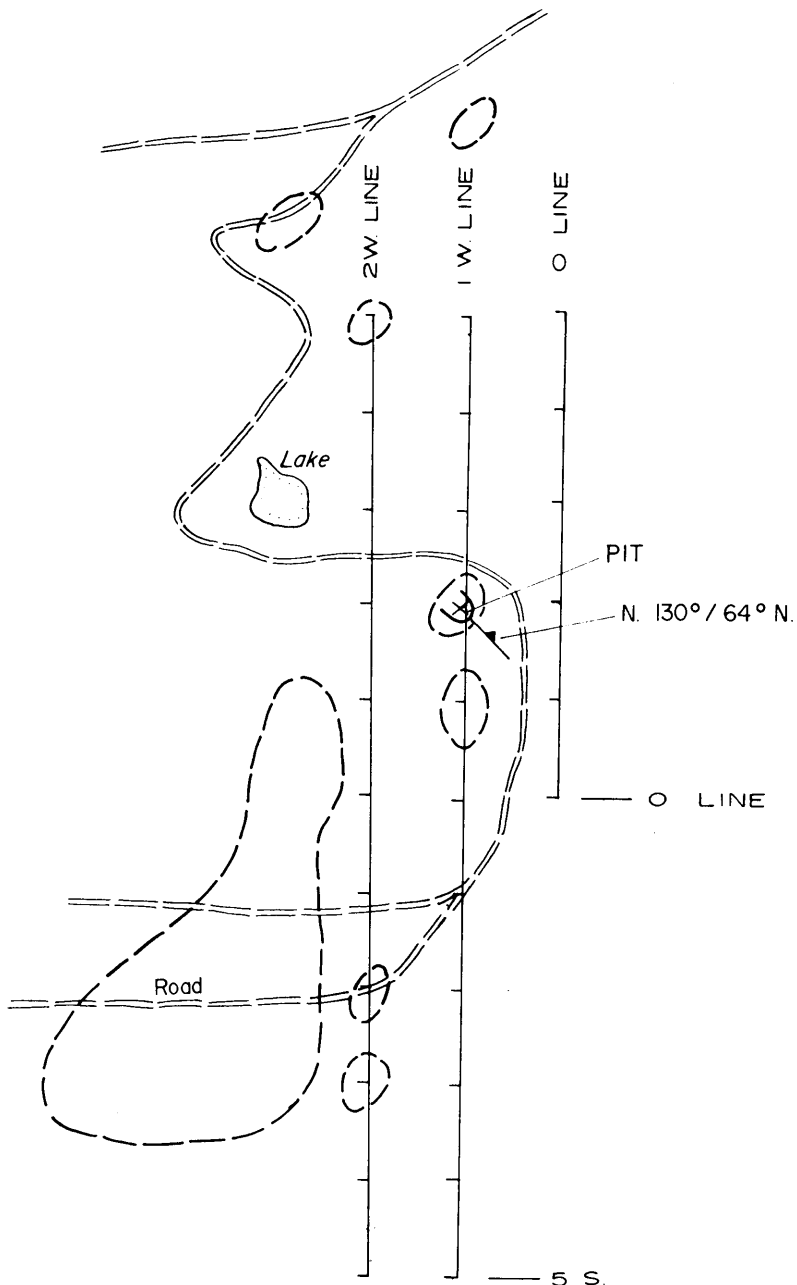
SILVER FALLS RESOURCES LTD.  
LEASE 2879

GEOLOGY MAP

GREENWOOD M.D., B.C.  
SCALE IN METRES

*Geologist*  
*June 10, 1976*





LEGEND




-  Pit
-  Strike and dip of shear
-  Light green, fine grained sediments

FIG. 5  
SILVER FALLS RESOURCES LTD.  
BEV. NO. 2 CLAIM  
GEOLOGY, GEOCHEMICAL  
MAGNETOMETER GRID PLAN

GREENWOOD M.D., B.C.

SCALE IN METRES



*D. J. Leach, Geologist*  
*June 10, 1976*