

85-179-13569  
4/86

Assessment Work Report  
VLF Electromagnetic Survey  
on the

BIG APPLE No. 1 - 1982(2)  
Mineral Claim

Lillooet Mining Division  
92-J-15-W

Long. 122 47 30' Lat. 50 52'  
Owned and operated by  
Levon Resources Limited

by  
P.S. Friesen P. Eng.  
2 April 1985

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,569**

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A Report on Very Low Frequency Electromagnetic Survey carried out over part of the BIG APPLE No. 1 Claim, Record No. 1982(2) Mineral Claim, near Goldbridge, B.C. In the Lillooet Mining Division, 92-J-15-W.

by  
P.S. Friesen P. Eng.  
2 April 1985

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## INTRODUCTION

### General Statement

This report describes the very low frequency electromagnetic survey carried out over part of the BIG APPLE No. 1 Claim, Record No. 1982 (2) mineral claim. The survey was carried out to comply with assessment work requirements.

### Property

The property consists of 18 units but is overlapped by the NORMA claim and 5 or 6 reverted crown granted claims.

### Location and Means of Access

The BIG APPLE-1 record No. 1982 [2] is located south of Carpenter Lake and east of McDonald Creek. The northwest corner is connected by about five kilometers of good dirt road with Goldbridge, B.C. Goldbridge is about 3 kilometers due west of the south end of the claim. The village is connected with Lillooet by 110 kilometers of all-weather road. A good summer road follows McDonald Creek and allows fairly easy access to most of the property.

The claim lies in the Lillooet Mining Division, in N.T.S. 92-J-15-W. The north-end of the property lies at the intersection



of longitude 122 degrees 47 minutes 30 minutes and latitude 50 degrees 52 minutes.

#### Owner-Operator

The BIG APPLE 1 mineral claim is wholly owned by Levon Resources Ltd. of 1040 - 609 Granville St., Vancouver, B.C. The survey was paid for by the company.

#### History

The area doubtlessly has been prospected several times over the years. A few lines of soil sampling was carried out over the north end of the claim.

No further data of previous work was found.

#### Economic Potential

The BIG APPLE No. 1 mineral claim is underlain by Fergusson Series of Paleozoic sediments and volcanic flows. An adit was driven about the centre of NORMA claim which overlaps the BIG APPLE claim. It appears that this adit was driven along a strike fault or a vein paralleling the formational strike.

Another adit was driven eastward, just south of the claim block. No information has been found concerning these two adits. However they indicate that economic minerals occur in the area and that exploration work is warranted. It should also be pointed out that the Congress group of zones lie across Carpenter Lake from the BIG APPLE 1 claim.

## GEOPHYSICS

### General Statement

Only a VLF-EM survey over part of the BIG APPLE 1 claim was carried out at this time. This was done to comply with assessment work requirements rather than paying cash in lieu of work. A complete geophysical survey is planned.

### Instrument Used

A SABRE VLF-EM unit was used. It was the Model No. 27 with serial No. 283.

### Instrument Operator

Mr. B. Aelicks operated the instrument during this survey. Mr. Bill Chase of White Rock, B.C. plotted the results.

### Period of Survey

The survey was carried out during the latter part of January and early part of February 1985. Snow conditions made this work extremely difficult.

### Survey Control

A total of 14.65 kilometers of line were established in an east-west direction. The lines were started at the northwest corner of the property and continued southward at 100 meter intervals. The lines were terminated at the top of the bank flanking Steep Creek. Readings were taken at stations established at 25 meter intervals started from the west claim boundary of BIG APPLE 1. Measurements were made from west to east.

### VLF Station Used

All measurements were made on the VLF station at Seattle,

Washington, U.S.A. which operates on a frequency of 18.6 KHz. The tilt angle and field strength of the signal were measured. Both the raw data and the Fraser-filtered data along with the field strength of the signal were plotted.

#### Survey Data Interpretation

Using the Fraser-filtered data, negatives are disregarded and positives indicate conductors. A good mineralized conductor is normally in the order of 10 degrees or more. Overburden, however may dampen or "muffle" a conductor. Relative field strength should increase in the immediate area of a conductor and this can be useful in sorting out anomalous readings.

At this time the effect of topography and of the depth of overburden is not known.

#### Survey Results

Three strong conductors are indicated by the survey. The most prominent one begins on line 21+00 S at 2+00 E and runs roughly north for 1200 meters and possibly further when it leaves the grid at the east end of line 9+00 but continues in the unexplored part of the property.

The second strong anomaly begins on line 21+00 S at 10+25 E and bears roughly north-northwest for at least 800 meters. It continues on the property through station 7+25 E on line 13+00 S.

The third good conductor, passing through station 8+60 E on line 21+00 S, more or less parallels the second conductor about 150 meters to the west of the second. It may be masked by overburden after 7+00 E on line 16+00 S and continue from 5+25 E on line 15+00 S through 4+50 E on line 12+00 S.

A few shorter conductors paralleling the others lie between the first and third conductors.

Furthur studies of the topography and claim location must be made. It would appear that the survey has overlapped the NORMA claim and the first conductor may actually lie near the adit reported to lie a short distance to the south. As there is no definite way of determining the relationship of the conductor to the adit at this time, furthur assessment is not possible.

#### Conclusion

The survey, as far as it was carried out, has indicated several conductors to be present. A magnetometer survey, surface prospecting and possibly trenching if feasible must be carried out.

#### Recommendations

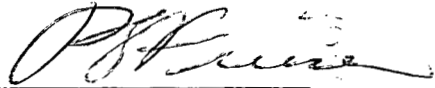
- [1] The VLF electromagnetic survey should be carried over to the rest of the property.
- [2] The same control used for the VLF-EM survey should be used to carry out a magnetometer survey.
- [3] The area over the conductors should be thoroughly prospected and trenched where possible.
- [4] Soil samples should be taken at 10 meter intervals, along the grid lines for 50 meters on either side of the conductor. There are 39 intersections of conductors with the grid lines. This would require 429 samples to be taken. The samples should be analysed for gold and silver at least.
- [5] The geology of the claim block should be mapped in



detail using the grid lines for control.

[6] The results of the above work should indicate the direction of further exploration.

Respectfully Submitted:



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P.S Friesen P. Eng  
2 April 1985

ESTIMATION OF COSTS

[1]	Completion of VLF-EM Survey (approx)	4,000.00
[2]	Magnetometer survey	6,000.00
[3]	Prospecting & trenching	3,000.00
[4]	Soil Sampling - 429 samples (min)	4,290.00
[5]	Soil Sample Analyses	4,290.00
[6]	Geological Mapping	3,500.00
[7]	Field expenses	2,500.00
[8]	Supervision & Engineering	<u>2,500.00</u>
		30,080.00
	Office overhead @ 10%	<u>3,000.00</u>
		33,080.00
	Contingencies	<u>3,300.00</u>
		\$ 36,380.00

CERTIFICATE OF QUALIFICATION

This is to certify that:

- 1) I, Peter S. Friesen reside at 6780 Sumas Prairie Road, Sardis, B.C.
- 2) I am a graduate of the University of Saskatchewan where I received a degree of Bachelor of Engineering in Geological Science in 1950.
- 3) I have practiced my profession for 34 years.
- 4) The information in this report is based upon available government records, personal knowledge of the area and supervision of the work performed.
- 5) I am a professional engineer registered in the Province of British Columbia.
- 6) I have no interest directly or indirectly in the Property of Levon Resources Ltd.
- 7) This report may be used in a prospectus or in a Statement of Material Facts for the purpose of raising funds for the projects.



P.S. Friesen P. Eng.

2 April 1985

STATEMENT OF COSTS  
VLF-EM - BIG APPLE 1  
JANUARY 1985

OPERATOR - 9.67 days @ 200.00/day	1,933.35
Expenses	420.62
DRAFTING - 14 hours @ 12.50 =	175.00
ENGINEERING & SUPERVISION-5 days @ 200.00/day	1,000.00
Expenses - report covers	10.59
blueprinting	45.76
typing	20.00
subtotal	<u>3,605.32</u>
Office O.H. @ 10%	360.53
total	<u><u>3,965.85</u></u>

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,569

LEVON RESOURCES LTD

BIG APPLE MINERAL CLAIM  
GOLDBRIDGE, BC  
LILLOOET MINING DIVISION

VERY LOW FREQUENCY ELECTROMAGNETICS

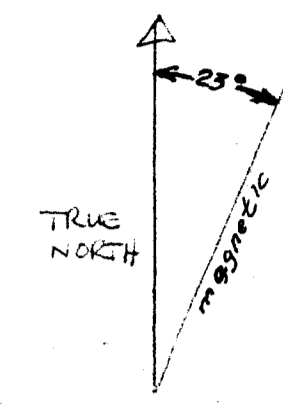
RAW DATA PROFILES (TILT ANGLE)  
STATION: SEATTLE WASH (FREQ. 18.6 kHz)

HORIZONTAL SCALE: 1" = 2500'

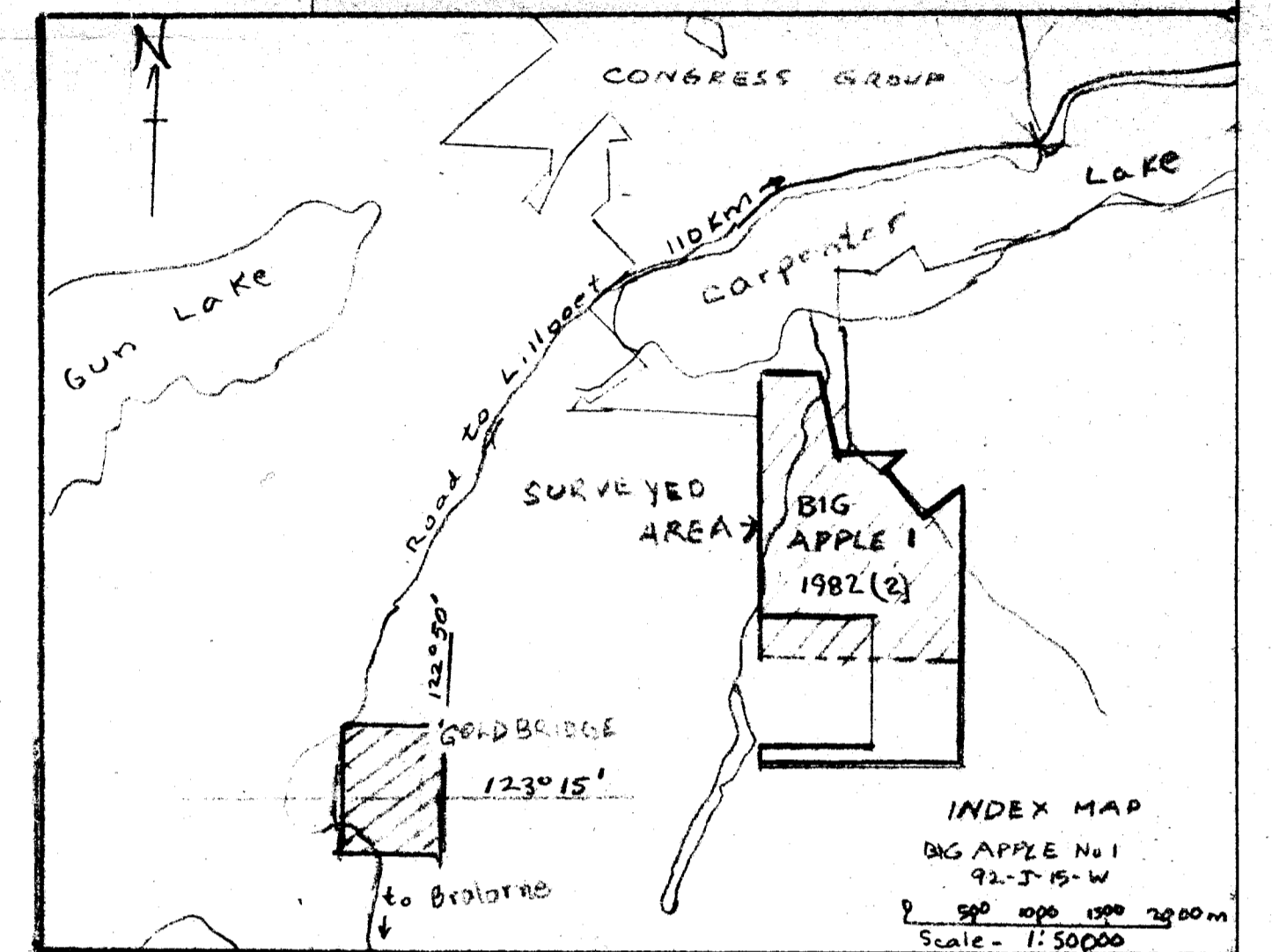
VERTICAL SCALE: 1cm = 25 meters

FIELDWORK: JAN-FEB 1985 by B. ALVICK

PLOTTING BY: BILL CARR

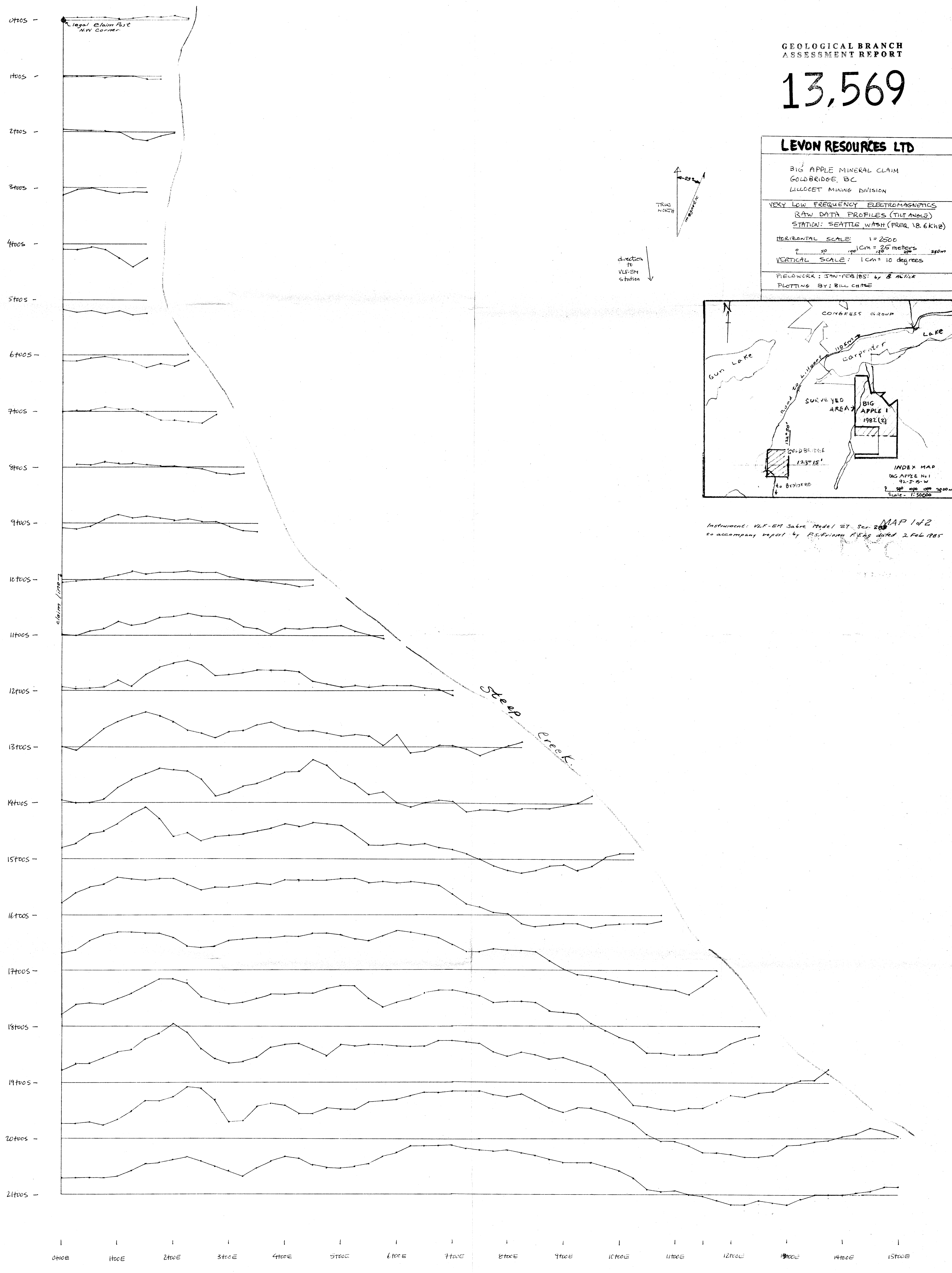


direction  
to  
VLF-EM  
station



Instrument: VLF-EM Sabre Model 27 Ser. 200  
to accompany report by P.S. Friday P.E.G. dated 2 Feb 1985

MAP 1 of 2



GEOLOGICAL BRANCH  
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LEVON RESOURCES LTD.

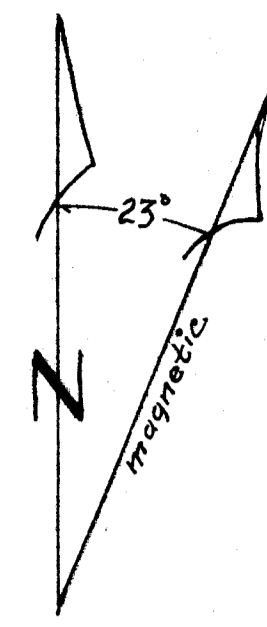
BIG APPLE MINERAL CLAIM - 1982 (2)  
GOLDBRIDGE, B.C.  
LILLOOET MINING DIVISION 92-J-15-W

VERY LOW FREQUENCY ELECTROMAGNETICS  
FRASER FILTERED DATA  
STATION: SEATTLE, WASH (FREQ. 18.6 kHz)

HORIZONTAL SCALE: 1" = 2500'  
0 500 1000 1500 2000 2500 M

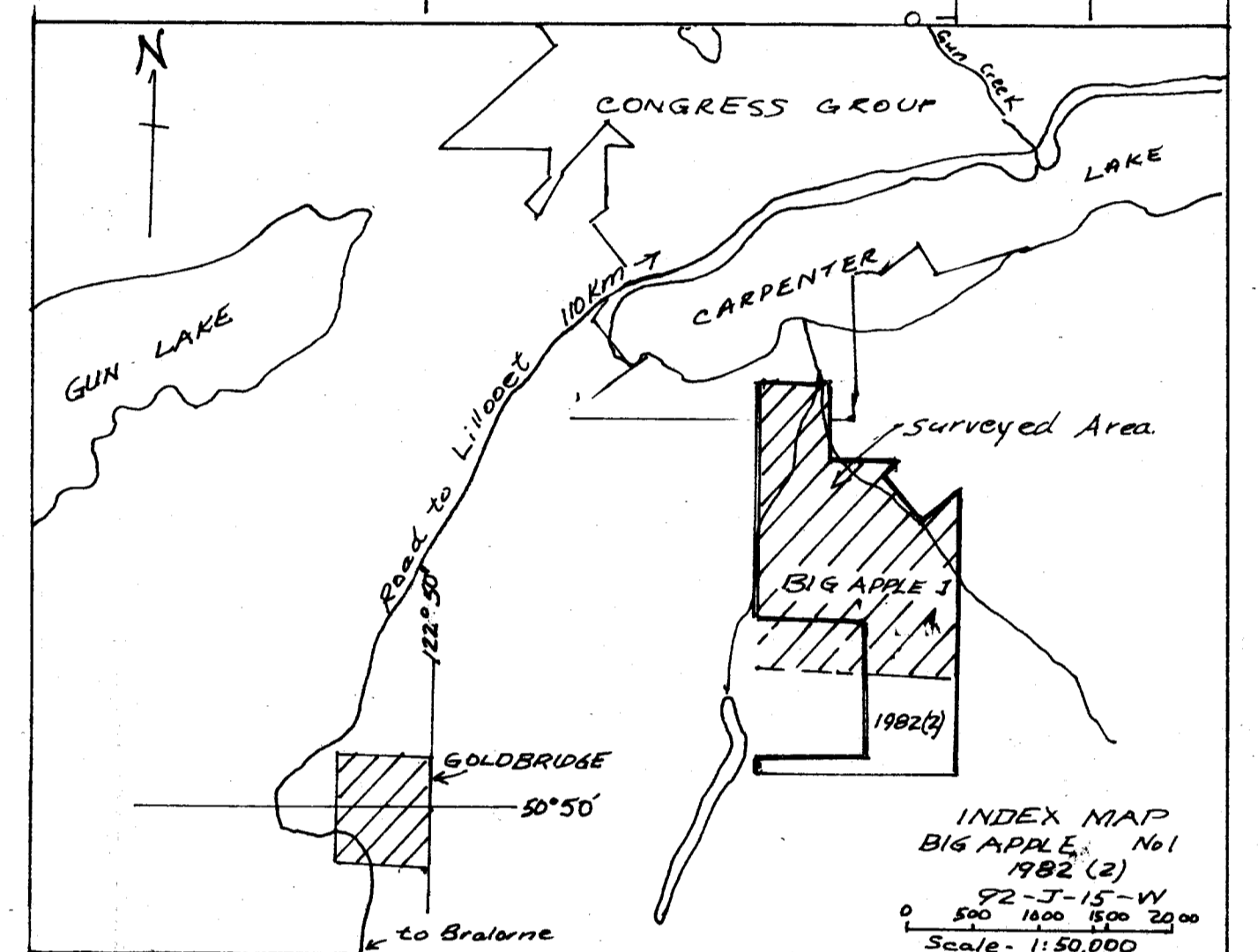
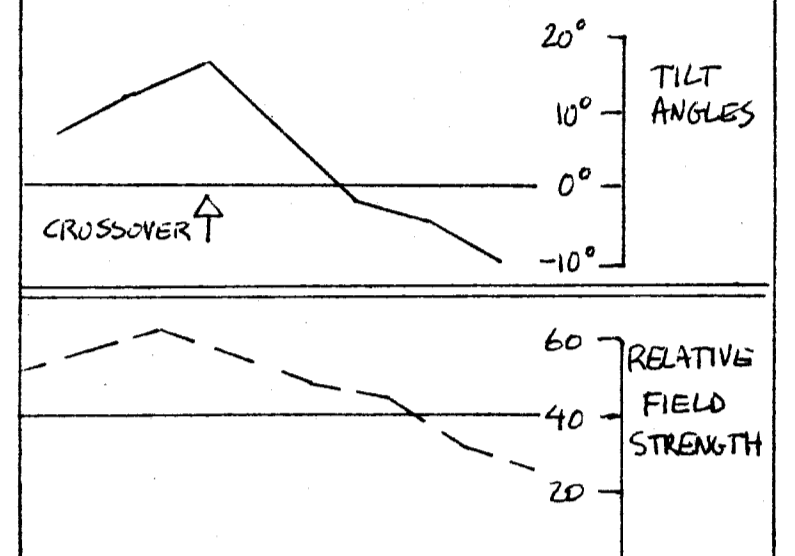
FIELD WORK JAN-FEB 1985 by B. Helvik

INK BY BILL CHASE



Direction  
to  
VLFEM  
station

LEGEND (VERTICAL SCALE)



MAP 2 of 2

Instrument: VLF-EM Sabre Model 27, Serial No. 283  
To accompany report by R.S. Fritsch, P. Eng. dated 2 April 1985

