

86-747-15348

ASSESSMENT REPORT  
Sabre VLF-EM Survey

BEER 1 Mineral Claim  
Kamloops Mining Division

Latitude 50° 36.<sup>5</sup>/<sub>N</sub> NTS 92I/9W Longitude 120° 11.<sup>1</sup>/<sub>W</sub>  
15.9'

by

Dirk Moraal

for

WHOPPER HOLDINGS LTD  
Owner and Operator

Record N° 4265(12)

GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
Kamloops, November 1986

15,348

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TABLE OF CONTENTS

Table of Contents	I
List of Illustrations	II
List of References	III
1.0 INTRODUCTION	Page 1
2.0 LOCATION, ACCESS, AND TOPOGRAPHY	1
3.0 OWNERSHIP AND CLAIM STATUS	2
4.0 HISTORY AND PREVIOUS WORK	2
5.0 WORK DESCRIBED IN THIS REPORT	3
6.0 GEOLOGY	3
7.0 SABRE VLF-EM SURVEY	4
8.0 CONCLUSIONS AND RECOMMENDATIONS	5
Statement of Costs	6
Statement of Qualifications	7

LIST OF ILLUSTRATIONS

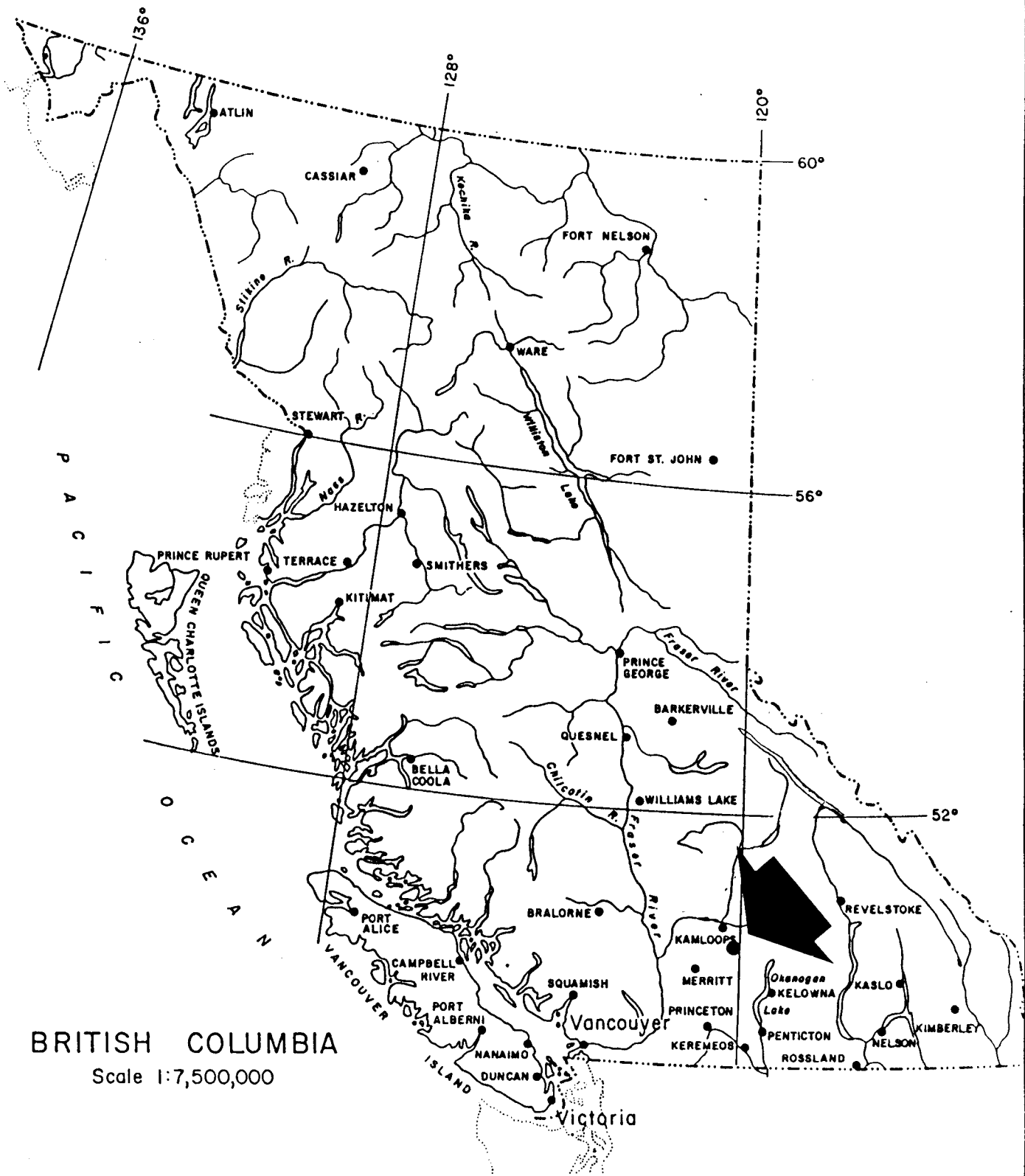
Fig 1	LOCATION MAP	before page 1
Fig 2	INDEX MAP	after page 1
Fig 3	Sabre VLF-EM Fraser Contours, Main grid	after page 4
Fig 4	Sabre VLF-EM Fraser Contours, Detail grid	after page 4
Fig 5	Sabre VLF-EM Sectional View, Line 'A'	after page 4

LIST OF REFERENCES

REPORT OF THE B.C. MINISTER OF MINES. 1933

Cockfield, GSC MEMOIR 249

Murphy, J.D. GEOCHEMICAL REPORT ON THE BEER! MINERAL CLAIM, 1985



BRITISH COLUMBIA

Scale 1:7,500,000



LOCATION MAP	
BEER 1 Mineral Cl. Kamloops Mining Div. NTS 921/9	
D.M.	Nov. 1986

## 1.0 INTRODUCTION

The BEER 1 mineral claim was located to cover the area surrounding a shallow shaft constructed in the early 1930 s to explore a quartz-carbonate vein which returned high gold assays.

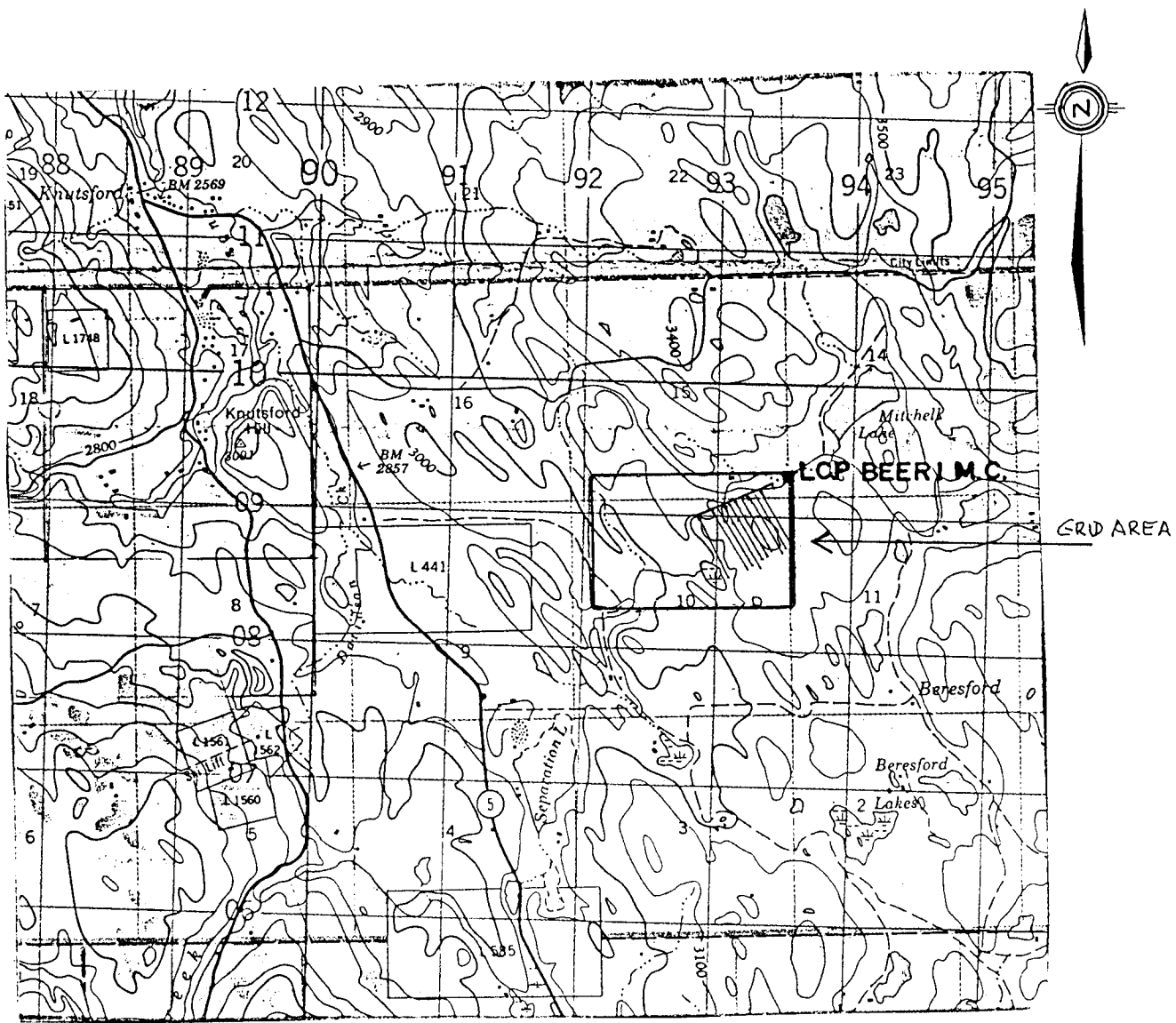
This report explains the geophysical surveys carried out on the claim to test the reaction of the Sabre VLF-EM receiver to this vein and try to find an extension to it.

Two grids were placed over and around the showing. The results obtained are described, and submitted for assessment credits.

## 2.0 LOCATION, ACCESS, AND TOPOGRAPHY

The BEER 1 mineral claim is situated some 6 km SW of the location of Knutsford on Hwy 5 south, and 10 km south of Kamloops B.C. Access is via a maintained rural road known as the Old Rose Hill Road, which leaves Hwy 5 1.6 km south of Knutsford and then east some 4 km to the claim. Year round access is possible with 2 wheel drive vehicles.

This claim lies on gently rolling rocky grassland, mainly devoid of trees, with a mean elevation of 940m ASL. A few shallow ponds are located on the claim, but only one holds water all year round.



**INDEX MAP**

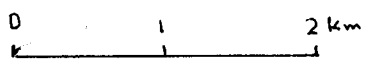
**BEER 1 Mineral Claim**

**Kamloops Mining District**

**NTS 92I/9**

**Scale 1:50000**

**Plate 2**



### 3.0 OWNERSHIP AND CLAIM STATUS

The BEER 1 mineral claim consists of two units south and three units west, staked under the modified grid system. The claim is owned by Whopper Holdings Ltd. of Kamloops, B.C.

The writer visited the LCP and found it to be as plotted. The claim is held in good standing.

### 4.0 HISTORY AND PREVIOUS WORK

The 1933 Annual Report of the B.C. Minister of Mines describes work on the property which was then called the Constant Group of eight mineral claims. A 6 meter deep shaft was cut into a mineralized shear zone, and assays collected.

A considerable amount of trenching, open cutting, and sampling was reportedly done on the numerous quartz veins.

The ground was largely ignored until the Afton rush, when it was staked, but nothing was done to develop it. It was staked under the name of Mitchell, after which it was abandoned and restaked as the BEER 1.

A geochemical report was written by J.D. Murphy in 1985 to report on a line of soil samples taken over the pit area.

Sampling and prospecting has been done on an informal basis, the grab samples being assayed for gold.



## 5.0 WORK DESCRIBED IN THIS REPORT

Two grids were placed over the shaft and surrounding area, the first totalling 3800 m, and consisting of a baseline and 7 500m long lines spaced 50 m apart and 12.5 m stations.

A smaller, detailed grid, over the shaft consisted of three lines spaced 25 m apart and with 10 m stations, for a total of 740 m. The larger grid was surveyed with a Sabre VLF-EM receiver tuned to the Cutler, Maine transmitter on 24.0 KHz. The same unit was used to survey the smaller grid, using the Seattle, Wash. transmitter on 24.8 KHz.

## 6.0 GEOLOGY

The host rock to the mineralized veins has been mapped as Cache Creek Group schistose metasediments, of perhaps Mississippian or Permian age. Along this belt of metasediments can be found numerous mineralized zones, which trend to the north west.

To the east of the metasediment belt are the pink granites of the Wildhorse Mountain Batholith, while to the east are the Ironmask Intrusives.

The showing itself is a quartz-calcite polymetallic vein striking to the north west and dipping 35° to the south. It varies from 5 to 45 cm in width. Visible mineralization consists of pyrite, arsenopyrite, chalcopyrite, malachite and azurite. Gold and silver are not visible to the naked eye.

Early assays returned 3.0, 2.1, and 0.7 oz/ton Au, and up to 11.5 oz/ton Ag.

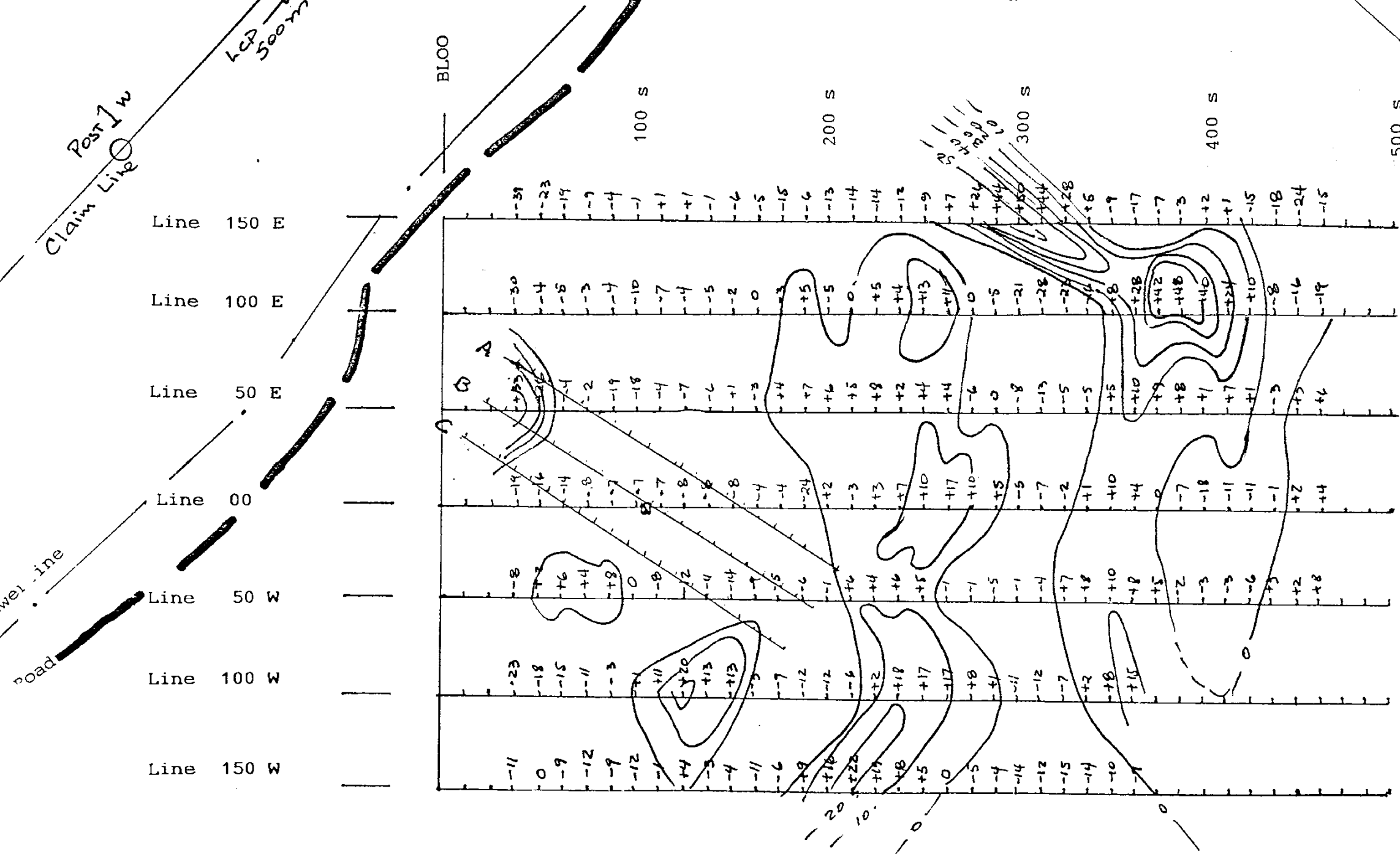
Recent assays of grab samples returned between 0.7 and 0.3 oz/ton

## 7.0 SABRE VLF-EM SURVEY

The initial work over the showing consisted of 3500 m of VLF-EM survey using the Cutler, Maine transmitter on 24.0 KHz. Four parameters were recorded. The Dip angle in degrees, Residual Field strength in percent, Horizontal field strength in percent and an experimental observation employed perhaps only by this writer and termed 'sensitivity' which is a measure of the reaction of the field strength meter to the proximity of the top of the dipping structure or body, and perhaps in the future can be proved to indicate the presence of a metallic conductor over a shear or other structure.

The detailed grid over the showing was oriented at a different angle and employed the Seattle transmitter on 24.8 KHz, and readings were taken each 10 m.

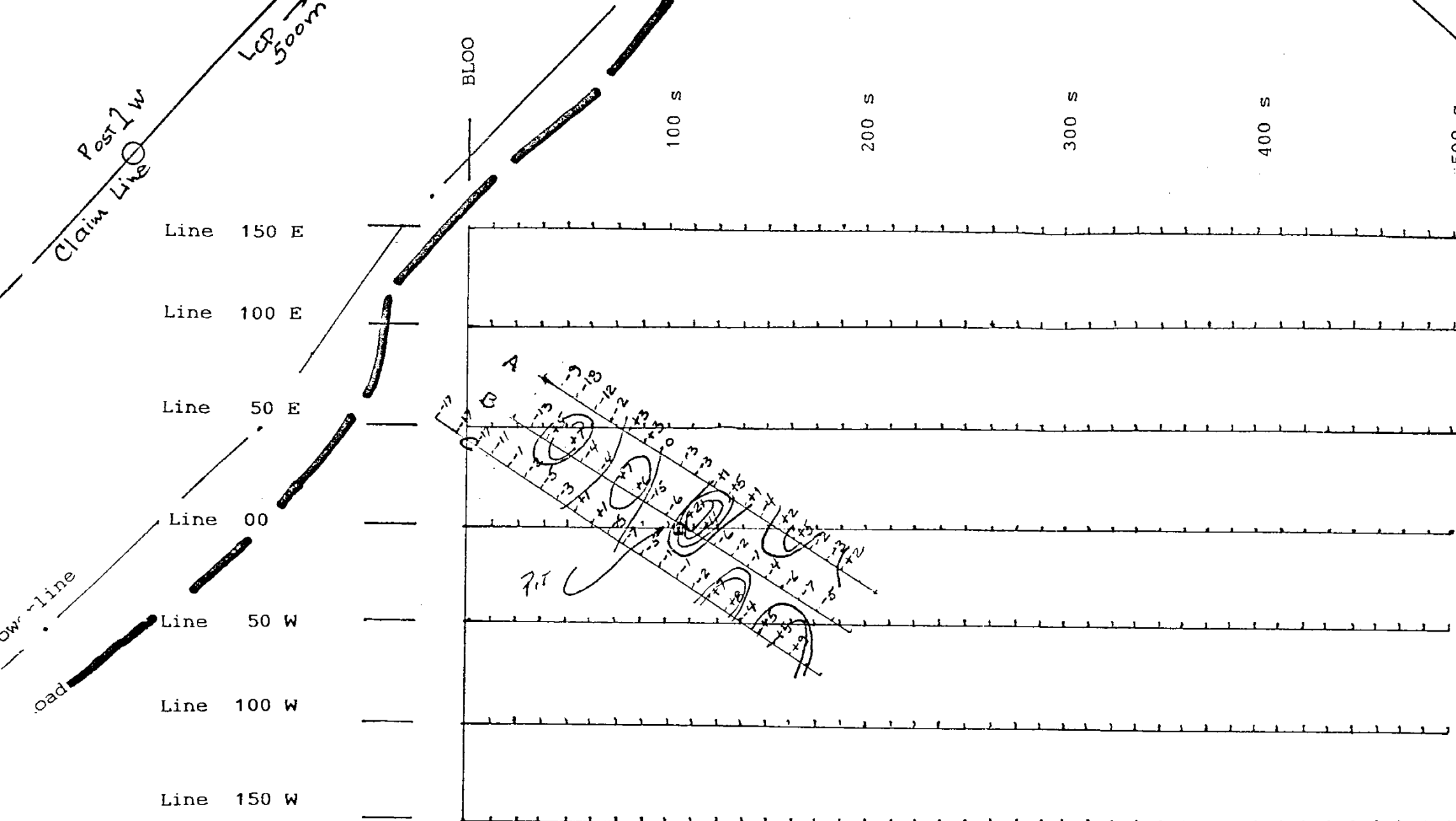
Dip data was subjected to Fraser Filter, using a microcomputer and using software designed by the writer, to produce a controllable set of readings. One line, line 'A' of the detailed grid was further subjected to a series of filtering steps to produce a sectional view of the anomaly to a depth of 40 m. Readings over the grid area were generally flat, except for two anomalous zones on lines 100 E and 150 E of the larger grid, where a strong anomaly is open to the east. Filtering has shown several minor anomalies, corresponding to normal structure associated with schistose metasediments.



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

15,348

BEER 1 Mineral Claim	
Sabre VLF EM Fraser Filter Contours (N=2)	
Date Nov. 17 1986 NTS 92 I/9	Plate: 3
Map by: D.M.	Survey: D.M.

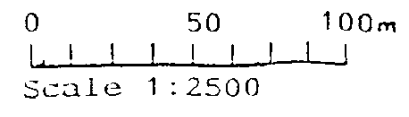
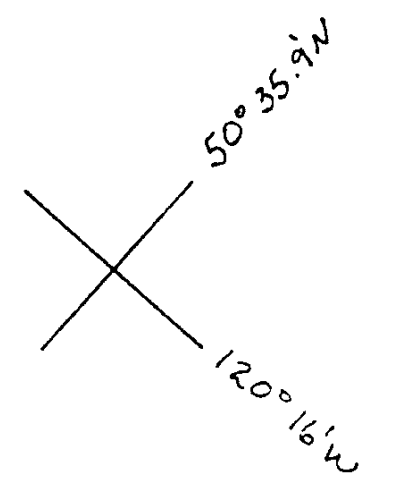


Contours: 0, 5, 10, 20 degrees

GEOLOGICAL RESEARCH  
ASSESSMENT REPORT

15348

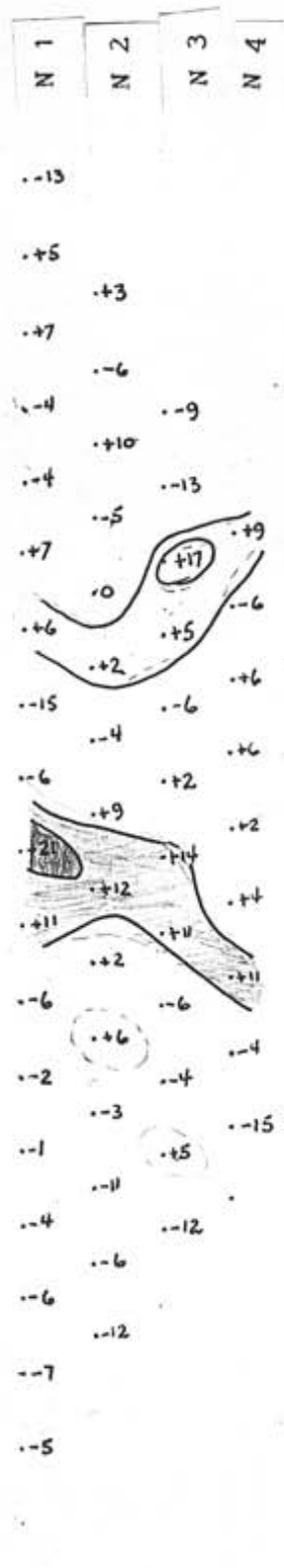
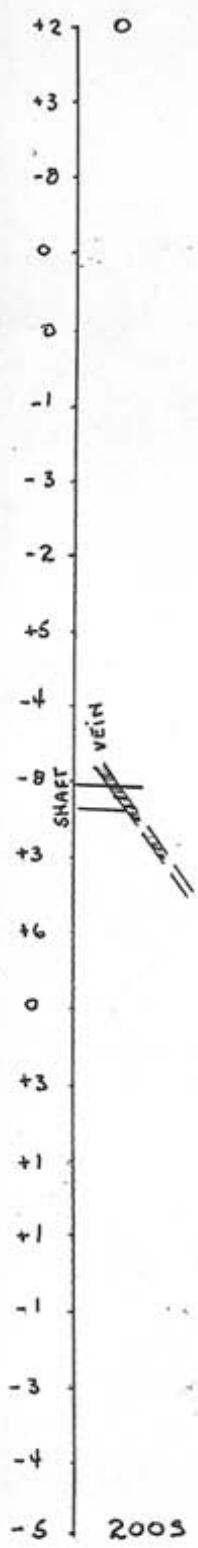
Transmitter  
Cutler, 24.8 KHz



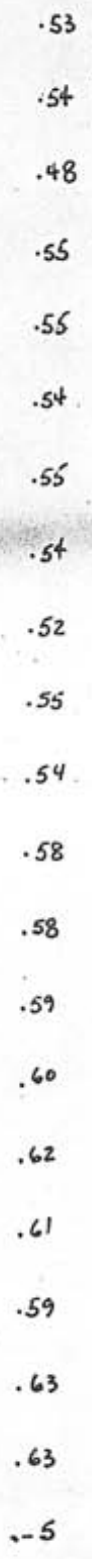
BEER 1 Mineral Claim	
Sabre VLF EM Fraser Filter Contours n=1	
Date Nov 17 1986 NTS 92 1/9	Plate: 4
Map by: D.M.	Survey: D.M.



Dip Angle



Field Strength



se -tle 24.8KHz

BEER 1 Mineral Claim  
 Sectional View, Shaft Vein  
 Scale 1 cm = 10m  
 Contours 10, 15 degrees  
 N= 10m approx  
**PLATE 5**

## 8.0 CONCLUSIONS AND RECOMMENDATIONS

The present survey shows that the Sabre VLF-EM method can be used successfully to locate veins of the type found at the Beer 1 showing, but that a detailed approach would be necessary.

The strong anomaly on lines 100 E and 150 E take on added importance as they are three times as strong as the Beer vein.

It is recommended to expand the VLF grid to cover the entire claim, using 50 m lines and 12,5 m stations. Carefull geochem sample collection should be carried out over any strongly anomalous area. Subsequent geochemical analysis of these samples should be for Au, Ag, As, and Cu. These last two as pathfinder elements.

STATEMENT OF COSTS

Personnel

L. Ovington	1 day @ 150/day	150.00
D. Moraal	3 days @ 150/day	450.00

Transportation

4x4 truck	4 days @ 45/day	180.00
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Miscellaneous

Instrument rental,	3 days @ 15/day	45.00
Surveying supplies		8.00

Report Fee

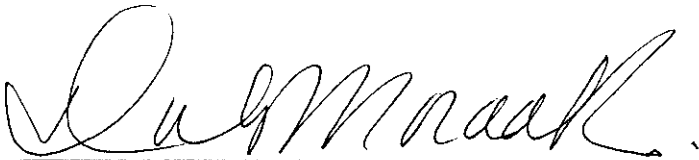
Compilation, typing, draughting, data reduction and supplies		375.00
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Total		<u>1208.00</u>
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STATEMENT OF QUALIFICATIONS

I, Dirk Moraal, of the City of Kamloops, in British Columbia do hereby state:

1. I am a professional prospector and geophysical operator
2. I have been carrying out my profession continually since 1969
3. I am a graduate of the British Columbia Department of Mines Mineral exploration Course for prospectors and the Yukon College Underground Mining Course.
4. This report is based on information gathered during the 1986 field season



Dirk Moraal

November, 1986