VLF-EM and MAGNETOMETER SURVEY

on the

O.B. CLAIM GROUP and CROWN GRANTS

GREENWOOD, BRITISH COLUMBIA

ON BEHALF OF

VISCOUNT RESOURCES LTD.

CLAIMS:	O.B.(15 Units)	Record No. 696
	Twin	Record No. 665
	Connection Fr.	Record No. 666
	Marjorie	Record No. 669
	Trilby	Record No. 667
	Clipper Fr.	Record No. 670
	Mountain View	Record No. 671

MINING DIVISION: Greenwood

LOCATION: 2 kilometers S.E. of Greenwood, B.C.
118° 38' W 49' 05° N
N.T.S. 82 E/2

SURVEY DATES: July 26 - August 7, 1980

August 25, 1980
Vancouver, B.C.

Ronald F. Sheldrake
APEX AIRBORNE SURVEYS LTD.

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GRID LOCATION MAP

O.B. CLAIM GROUP & CROWN GRANTS

GRAND FORKS MINING DIVISION
BRITISH COLUMBIA
FOR

VISCOUNT RESOURCES LTD.

NTS 82 E/2	APEX AIRBORNE SURVEYS LTD.

1. SUMMARY

This prospect is situated in an ore productive area as evidenced by the numerous workings and abandoned mines around and throughout the property, however, these geophysical surveys did not identify any anomalous zones that could be considered as targets for mineralization.

2. INTRODUCTION

This report describes the results of ground VLF electromagnetometer and magnetometer surveys undertaken over the O.B. Mineral Claims and Reverted Crown Grants owned by Viscount Resources Ltd, of Vancouver, British Columbia.

The grid is located two kilometers S.E. of Greenwood and rectangular with dimensions about three kilometers (E-W) and 1.5 kilometers (N-S). The traverses were compass positioned and were oriented true N-S at an interval of 200 meters. The station interval was 25 meters.

The survey area has been extensively prospected since the early 1900's as evidenced by the numerous surface workings. At least two of these have been productive, namely the Dynamo C.G. and E. Pluribus Unum C.G., which produced 72 tons and 104 tons respectively*(silver, gold, lead, zinc ore). Neither of these workings are on the Viscount Claims but are in close proximity. (See Figure 1).

*Report on Greenwood Skylark Camp Property by Gordon Gutrath, P.Eng., December, 1977.

The purpose of the geophysical surveys was to identify any areas where anomalous magnetic or conductive conditions exist that might be indicative of mineralization. Further, because of the abundant overburden cover, a broad pseudo-geological analysis of the prospect was made for the geophysical parameters.

3. DATA PRESENTATION

Plate 1 Scale: 1:5,000

Ground Magnetometer Survey showing contacts and interpreted lineaments.

Contours of total magnetic field, uncorrected for regional gradient, in units of gammas (10^{-5} oersted). Contour interval 100 gammas.

Plate 2 Scale: 1:5,000

VLF-Fraser Filtered Contour Map. The data were processed according to the standard technique of D.C. Fraser and contoured.* This process alters the data in the following manner.

1) It transforms e.m. crossovers to contourable anomalies;
2) It diminishes topographic effects; and
3) It enhances higher frequency anomalies.

The map is contoured at $\pm$ 10, 20, 40, 80% per 50 meters.

*

Plate 3 Scale: 1:5,000

VLF-Quadrature Contour Map.

The data were plotted (unprocessed) and contoured (Quadrature data can have either a position or negative crossover, hence Fraser Filtering is not suitable).

Contour interval 10%

4. DISCUSSION OF RESULTS

The magnetic and electromagnetic features coincide in a general way with the geology mapped by D.A. McNaughton.*

The areas of strong magnetization, for example the south ends of L2400W and L2200W, are coincident with rocks mapped as serpentines. The areas of less magnetization that are mapped further north along those traverses coincide with intrusive rocks.

The relationship is less clear for the electromagnetic parameters. The VLF quadrature map was virtually unresponsive to geological features except indirectly; over magnetic rocks interference from powerlines was enhanced. However, the in-phase data convincingly coincides with the E-W trending parallel features indicated in the magnetic contours. (See Plate I and Plate II south ends L1000 W to L600 W).

*Map 45-20A included with this report.

(Two comments with regard to the VLF data are warranted here. The VLF data, because of the directional nature of the transmitted signal distorts the contour pattern so that it does not accurately represent the conductivity distribution of the underlying rocks. Secondly, the data are severely distorted by cultural features such as powerlines and fences. Unfortunately these were common within the survey area.)

The electromagnetic data did not indicate any anomalies that could be selected as target zones for mineralization. The majority of the anomalous quadrature responses correspond to fences or other cultural features, as do a good number of the in-phase (Fraser Filtered) anomalies.

The magnetic contour map suggest a linear feature extending from the south end of L0 to the north end of L800 W. The linear feature may indicate a fault or contact zone and from a geophysical point of view this area may be the best prospect for exploration.

5. CONCLUSIONS AND RECOMMENDATIONS

The geophysical surveys did not identify any anomalous targets that were indicative of mineralization.

However, because of the numerous mineralized showings within and around the survey area, the property warrants further assessment.

It is recommended that a detailed geochemistry survey be undertaken on a rectangular block bounded by 500W and 900E, station 900N and the baseline in the south.

If a positive geochemistry response resulted from the survey it should then be "detailed" with induced polarization and a low frequency electromagnetic survey to identify a drill target.

Respectfully submitted,

Ronald F. Sheldrake

APPENDIX I

INSTRUMENTATION

Magnetometer:

Manufactured by Exploranium Corporation, Toronto, Canada.

Model No. G826, sensitivity 1 gamma.

Estimated noise level on present survey ± 15 gammas.

VLF-electromagnetometer:

Manufactured by Geonics Ltd, Toronto, Canada.

Model: E.M.-16

Type of measurements made: 1) Percent (angle) of total field rector

2) Phase shift

Stations used: one, Seattle 18.6 khz.

All readings taken facing north.

Estimated noise level on present survey ± 3%.

CERTIFICATION

I, RONALD F. SHELDRAKE, of the City of Vancouver, Province of British Columbia, hereby certify as follows:

1. I am President of APEX AIRBORNE SURVEYS LTD., a company incorporated under the laws of the Province of British Columbia.

2. The Vancouver Office of Apex Airborne Surveys Ltd. is located at Suite 420-890 West Pender Street, Vancouver, British Columbia.

3. I received my B.Sc., in Geophysics from the University of British Columbia in May 1974.

4. I have practised my profession since that date.

5. I am not aware of any claim conflict and believe that the data presented herein are reliable.

6. I have no interest, direct or indirect, in Viscount Resources Ltd. or its affiliates, nor do I expect to receive any.

7. I consent to the use of this report in or in conjunction with a Prospectus or in a Statement of Material Facts.

Ronald F. Sheldrake
Geophycisist

September 5, 1980

MAGNETOMETER SURVEY

1) To identify small magnetic anomalies related to sulphide mineralization within shear rocks; and

2) To map rock units and identify "porphyry" environments.

VLF SURVEY

1) To map the resistivity character of the area;

2) To identify resistive dikes and dike swarms;

3) To identify shear zones;

4) To identify porphyry zones, and

5) To identify faults and structures.

My quotation for the above work, or any portion of it you wish to undertake, including all expenses and reporting, is as follows:

1) Establish Grid:

48 km 200-meter line separation
25 meter station interval $2,875.00

2) Magnetometer and VLF-Electromagnetometer Survey:

48 km $3,765.00

3) Detail readings, if required, at completion of survey:

$450/per crew day (2-men)

Pd $3000
Ch #131
July 18/80

Sincerely,
APEX AIRBORNE SURVEYS LTD.,

Paid $3,340.00 - Oct. 10/80

TOTAL PAID - $6,340.00

Ronald F. Sheldrake

RFS:vm

GEOLOGICAL SURVEY

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8745
NO.

DEPARTMENT OF MINES AND RESOURCES
MINES AND GEOLOGY BRANCH
BUREAU OF GEOLOGY AND TOPOGRAPHY

NO LEGEND

CENOZOIC
- TERTIARY
  - MIOCENE (?)
    - Porphyritic palaeolite
    - Diorite, augite porphyrite
  - MIDWAY GROUP
    - Augite basalyte
  - OLIGOCENE
    - KETTLE RIVER FORMATION: conglomerate, sandstone, shale

MESOZOIC
- CRETACEOUS OR EARLIER
  - Granodiorite
  - Diorite, gabbro, pyroxenite
  - Serpentine

PALAEOZOIC
- CARBONIFEROUS (?)
  - Limestone
  - Argillite
  - Andesite, tuffite
  - Lime-silicate rock, with sulphides
  - Jasperoid
  - Chert
  - Undivided chert, sediments, and volcanic rocks

Heavily drift-covered areas
Bedding (inclined, vertical)
Adit
Shaft
Glory hole
Mineral property (location)

Geology by D. A. McNaughton, 1936

Providence Creek
Boundary Creek
GREENWOOD
PHOENIX
Lind Creek
Boundary District
CANADIAN PACIFIC RAILWAY

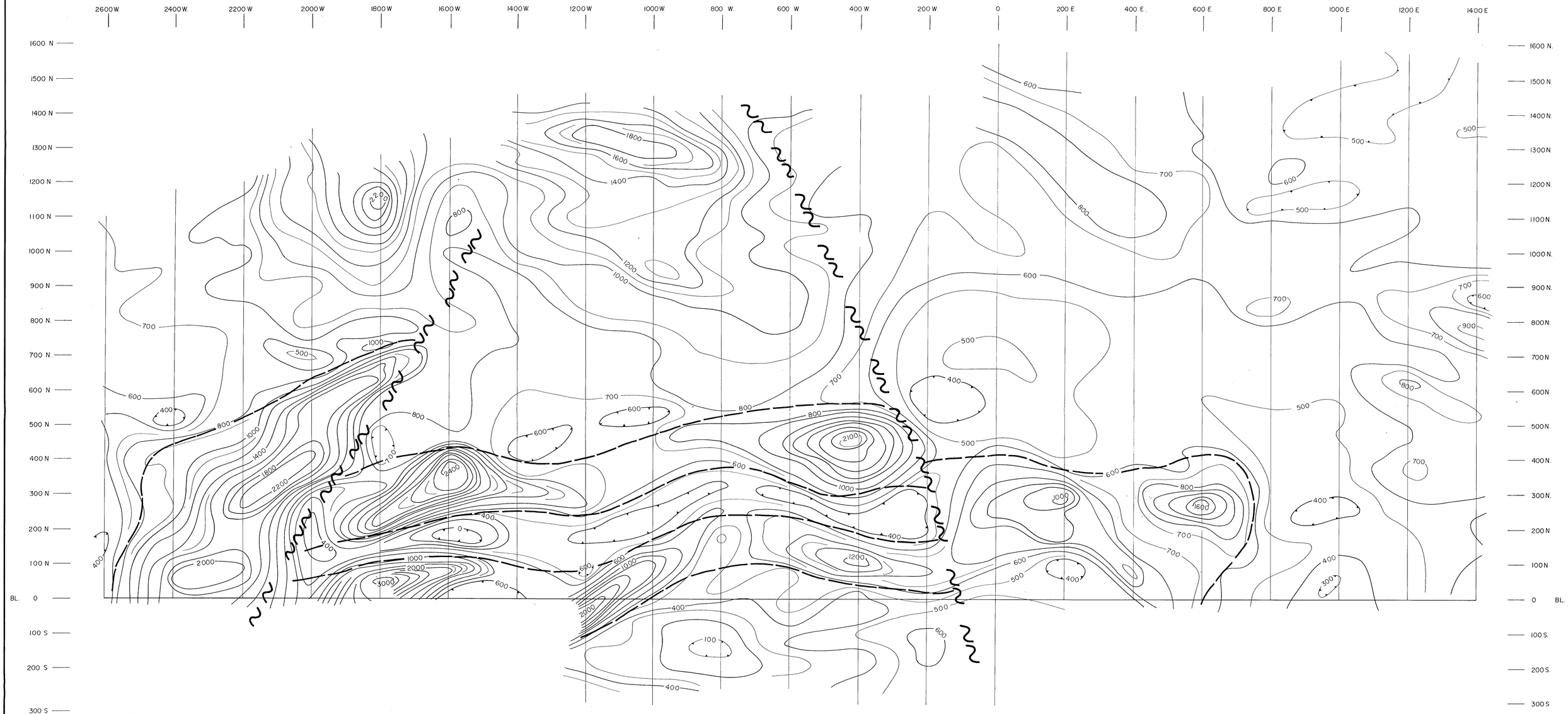
LIST OF PROPERTIES
1. Providence
2. Elkhorn
3. Lotta
4. Last Chance
5. Ben
6. B. P. G.
7. Barbara
8. Dundee
9. Argo
10. Helen
11. Birch
12. Crescent
13. Brooklyn
14. Idaho
15. Commander
16. Gilt Edge
17. Red Rock
18. Red Eagle
19. Grey Eagle
20. Knob Hill
21. Old Ironsides
22. Aetna
23. Victoria
24. War Eagle
25. Monarch
26. Bank of England
27. Riverside
28. Carlow
29. Yellow Jacket
30. Emmerdale
31. Gold Drop
32. Morrison
33. Golden Crown
34. Winnipeg

PRELIMINARY MAP 45-35A

GREENWOOD - PHOENIX
SIMILKAMEEN DISTRICT
BRITISH COLUMBIA

Scale: 1 inch to 800 feet

Surveyed and compiled by the Topographical Survey, Summer 1935



NOTES:

INSTRUMENT :- GEOMETRICS G-826

UNITS OF MEASUREMENT :- GAMMAS (10^{-5} OERSTED)

CONTOUR INTERVAL :- 100 GAMMAS.

LEGEND

1000 — MAGNETIC DEPRESSION

FAULT ZONE

INTERPRETED CONTACT

PLATE I

GROUND MAGNETOMETER SURVEY TOTAL FIELD CONTOUR MAP

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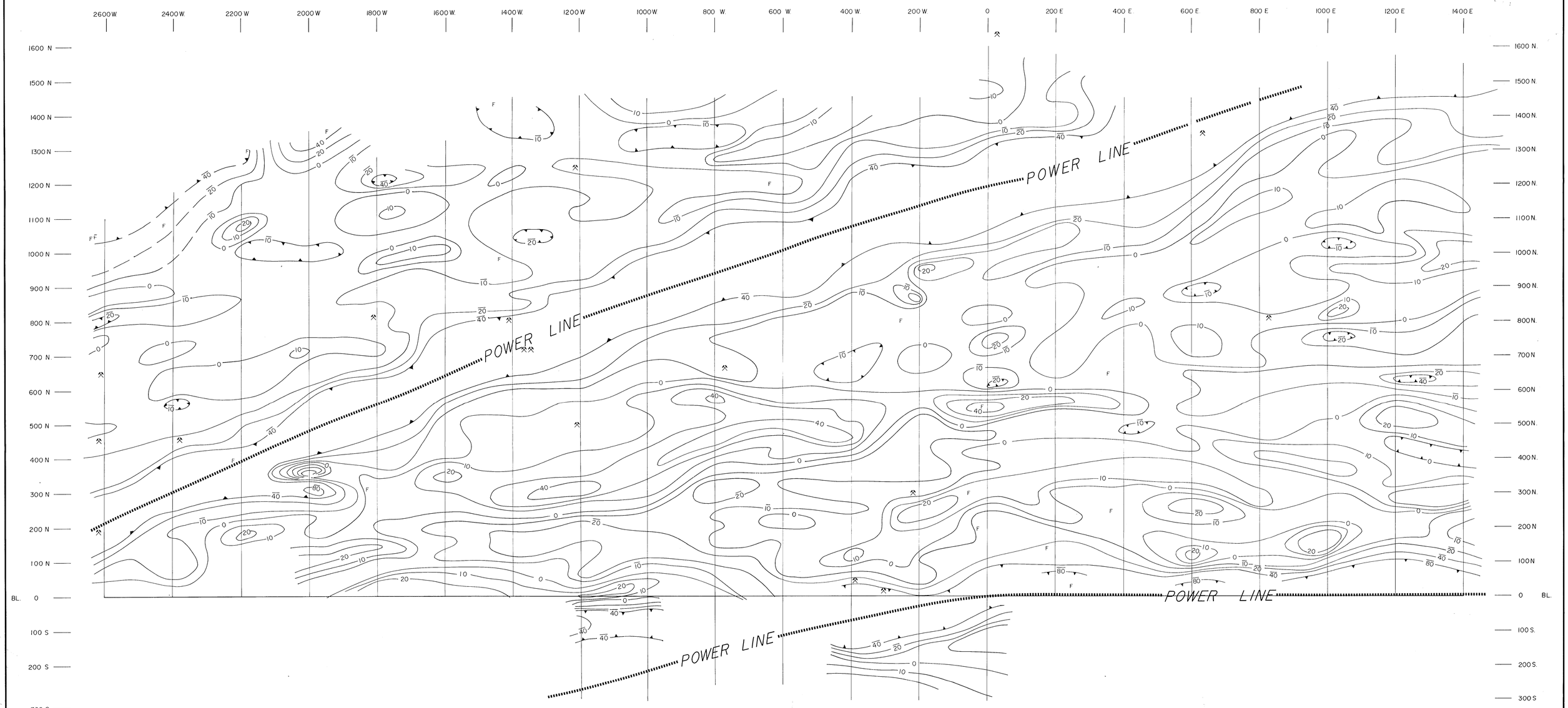
NTS 82 E/2 49°05' N 118° 38' W

Metres 100 50 0 100 200 300 400 500 600 Metres

SCALE 1: 5,000

To accompany a report by Ronald F. Sheldrake, dated August 25, 1980



NOTES:

INSTRUMENT :- EM. - 16

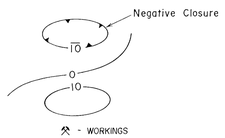
UNITS OF MEASUREMENT :- % / 50 METERS

TRANSMITTER :- SEATTLE 18.6 KHRTZ.

READINGS COLLECTED :- FACING NORTH

CONTOUR INTERVAL :- ± 10, 20, 40, 80 %

LEGEND



⚒ - WORKINGS

F - FENCE

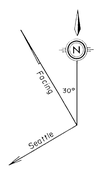


PLATE 2

VLF - FRASER FILTER CONTOUR MAP

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NTS 82 E/2 49°05' N 118° 38' W

Metres 100 50 0 100 200 300 400 500 600 Metres

SCALE 1 : 5,000

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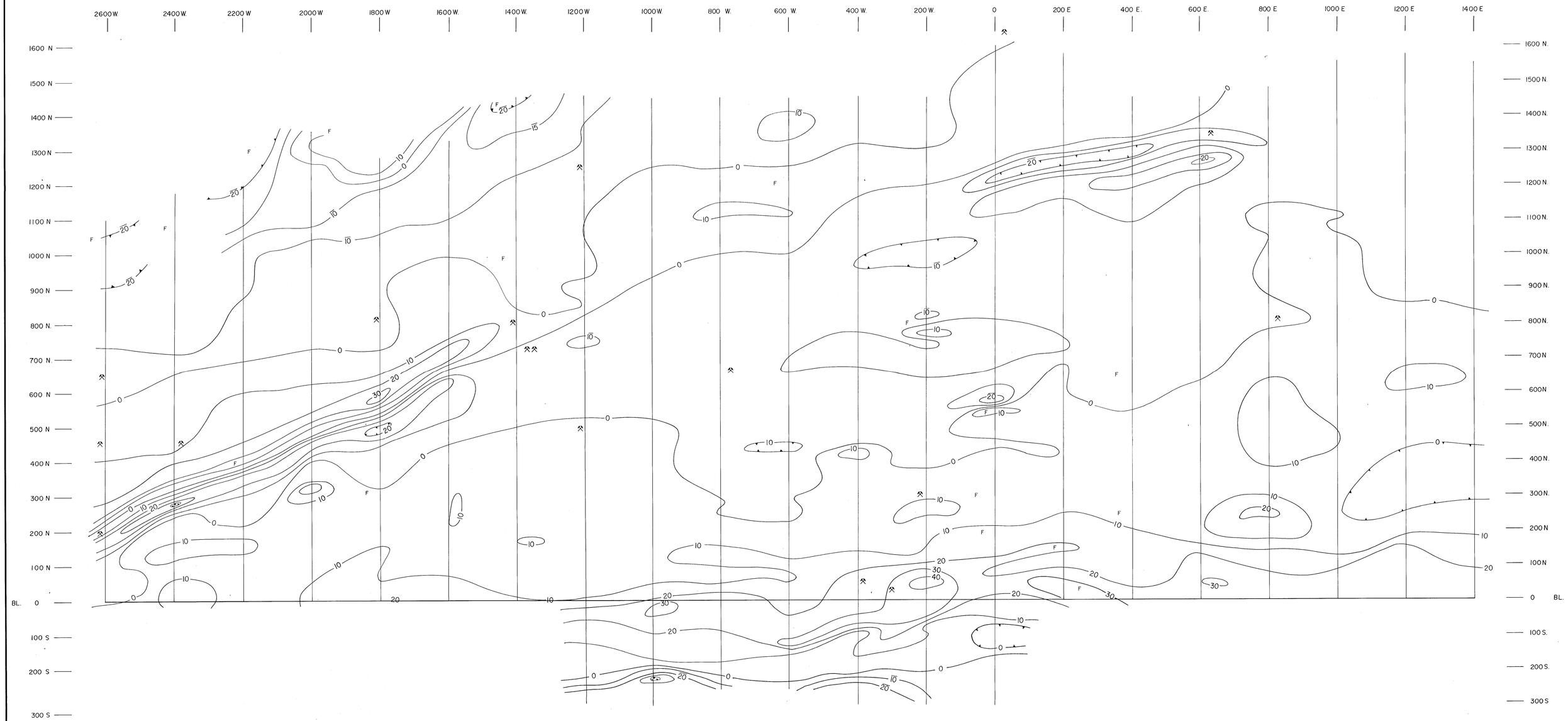


NOTES:

INSTRUMENT :- E M-16

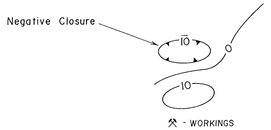
UNITS OF MEASUREMENT :- PHASE CHANGE-%

TRANSMITTER :- SEATTLE 18.6 KHRTZ.

READINGS COLLECTED :- FACING NORTH

CONTOUR INTERVAL :- 10 PERCENT

LEGEND



⚒ - WORKINGS
F - FENCE

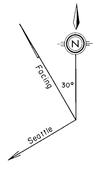


PLATE 3

VLF QUADRATURE CONTOUR MAP

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NTS 82 E/2 49°05' N 118°38' W

Metres 100 50 0 100 200 300 400 500 600 Metres

SCALE 1: 5,000

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