

87-47-15540

owner/operator: **BARYTEX RESOURCE CORPORATION**
GEOPHYSICAL REPORT
ON AN
AIRBORNE VLF-ELECTROMAGNETOMETER AND
MAGNETOMETER SURVEY
BOO #2 CLAIM
CARIBOO MINING DIVISION *165'*
LATITUDE $53^{\circ}10'10''$ ~~N~~^N LONGITUDE $122^{\circ}21'$ ~~W~~^W
NTS 93G/1W
AUTHORS: E. Trent Pezzot, B.Sc.
Geophysicist
DATE OF WORK: August 25, 1986
DATE OF REPORT: September 17, 1986

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GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,540



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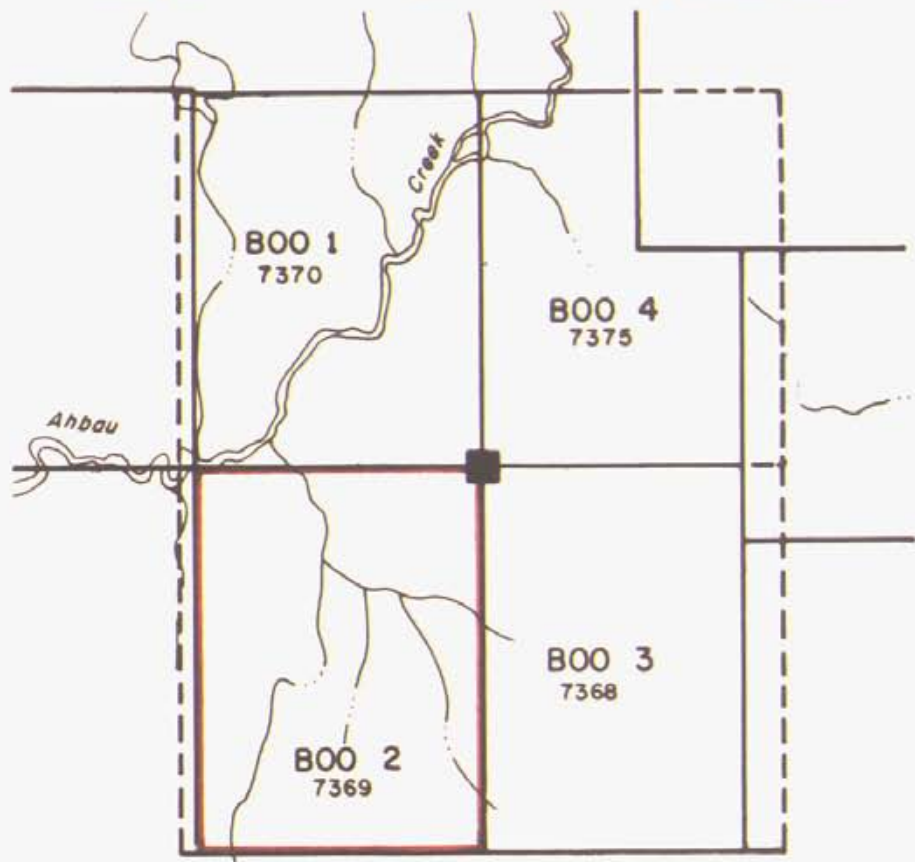
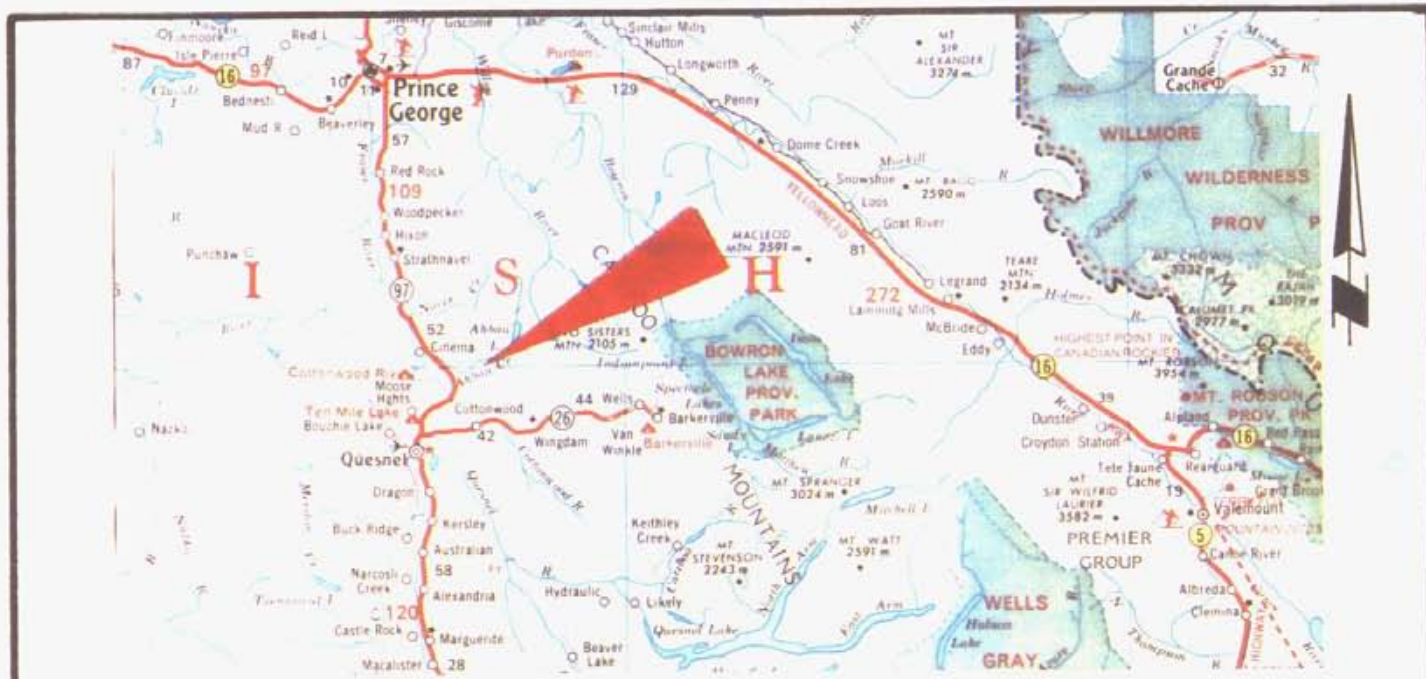
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BARYTEX RESOURCE CORP.
 — BOO 2 CLAIM —
 LOCATION AND CLAIMS MAP



FIGURE 1

INTRODUCTION

Western Geophysical Aero Data Ltd. was commissioned by a group of four companies to conduct airborne magnetic and VLF-electromagnetic surveys across a number of claim groups in the Umiti Creek area some 27 kilometres northeast of Quesnel, B.C. The Boo #2 claim owned by Barytex Resource Corp. was included as part of this program. Approximately 72 kilometres of survey were flown on August 25, 1986 and have been analyzed to evaluate the area of the Boo #2 claim.

A large portion of the claim area is covered by glacial overburden and it was the intention of this survey to assist the geological mapping of the area and direct ground exploration of the claim.

PROPERTY

The Boo #2 claim is comprised of 20 units as described below and illustrated on Figure 1.

CLAIM NAME	RECORD NO.	UNITS	RECORD DATE
Boo #2	7369	20	Feb. 28, 1986

LOCATION AND ACCESS

The Boo #2 claim is located approximately 26 kilometres northeast of Quesnel, B.C. in the Cariboo Mining Division and NTS 93G/1W. The approximate geographical coordinates of the claim are latitude 53°10'30"N and longitude 122°17'W (see Figure 1).

Logging activity in the area has produced an extensive road network which provides access to the area. These logging roads are most easily accessible from Quesnel by following highway 97 north for approximately 20 km to Hush Lake. From



LEGEND

MIOCENE AND PLIOCENE

MPvb Olivine basalt flows, breccia, tuff

OLIGOCENE AND MIOCENE

OMe Andesite, basalt, dacite

UPPER CRETACEOUS AND LOWER TERTIARY

KTOL Rhyolite, dacite, trachyte, sandstone, shale, conglomerate

CACHE CREEK TERRANE

UPPER PALEOZOIC

Cache Creek Group

uPc Grey limestone, minor greenstone, chert and argillite, serpentinite, basalt, dark grey ribbon chert and greenish micritic (?) limestone

QUESNEL TERRANE

UPPER TRIASSIC AND/OR LOWER JURASSIC

Takla Group

Td Diorite

uTJTb Greywacke, siltstone, minor conglomerate

uTJTa Andesite, volcanoclastics, greywacke, slate

uTc Sandy limestone, limestone

uTp Siltite, pelite, limestone, minor bioclastic limestone

Tp Phyllite, slate

Nicola Group

TJNi Syenite, monzodiorite, subvolc. intrusions

TJNi Limestone, quartzitic, sandy limestone & slate

TJNd Basalt, agglm., brx., congl., and lesser tuffs and argillite

TJNc Augite porph. basalt tuff, brx., minor flows, tuff, arg. and siltite, local andesite basalt

TJNb Basalt tuff and siltite, org., greywacke, & slate, minor basalt, brx., aggl., polymictic cong.

TJNa Slate, org., phyllite, f. gr. and minor cs. grywke. and lesser tuff, tuff siltite and org.

UPPER PALEOZOIC ?

IPu Crooked amphibolite
Serpentinite, amphibolite

SLIDE MOUNTAIN TERRANE

UPPER TRIASSIC

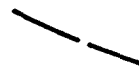
uT Shale, sandstone

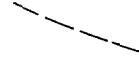
UPPER PALEOZOIC

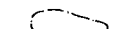
uPsm Slide Mtn. Group; Antler Formation
Phyllite, minor micritic lst., diorite, dacite tuff and aggl., grey and olive ribbon chert, slate and argillite, pillow basalt, brx., dior. and minor serpentinite.

SYMBOLS

 Thrust Fault (teeth on hanging wall)

 Major Fault (approximate)

 Geologic Contact (approximate)

 Outcrop Boundary

BARKERVILLE TERRANE

HADRYNIAN AND PALEOZOIC

Snowshoe Group

HPs Undifferentiated grit, pelite, marble

HPsq Grit, quartzite

PIPs Grey and olive grey schistose, quartzite, schist, phyllite, marble, amphibolite, siltite and minor white to dark grey quartzite.

PIPs0 Light grey orthoquartzite, grey schistose quartzite, schist, phyllite.

CARIBOO TERRANE

HADRYNIAN AND PALEOZOIC

HPc Guyet Fm.; basalt flow, aggl., limestone, conglomerate
Black Stuart Group; chert, black pelite, sandstone

Cariboo Group

Yanks Peak and Midas Fm.; quartzite, phyllite, siltite. Yankee Belle. Fm.; quartzite, phyllite.
Cunningham Fm.; limey marble. Isaac Fm.; phyllite, calcareous phyllite, siltite, quartzite, marble

Kaza Group

Grit, quartzite, phyllite

INTRUSIVE ROCKS

LOWER CRETACEOUS

Naver Pluton

eKg Porphyritic granite, quartz monzonite, granodiorite, aplite and pegmatite

Ki Biotite granite, quartz monzonite, monzonite, granodiorite (satellites of Naver Pluton)

MIDDLE JURASSIC

mJi Potassium feldspar mega crystalline hornblende quartz monzonite, granodiorite and granite

JURASSIC OR YOUNGER

um Ultramafic intrusion

LOWER TRIASSIC

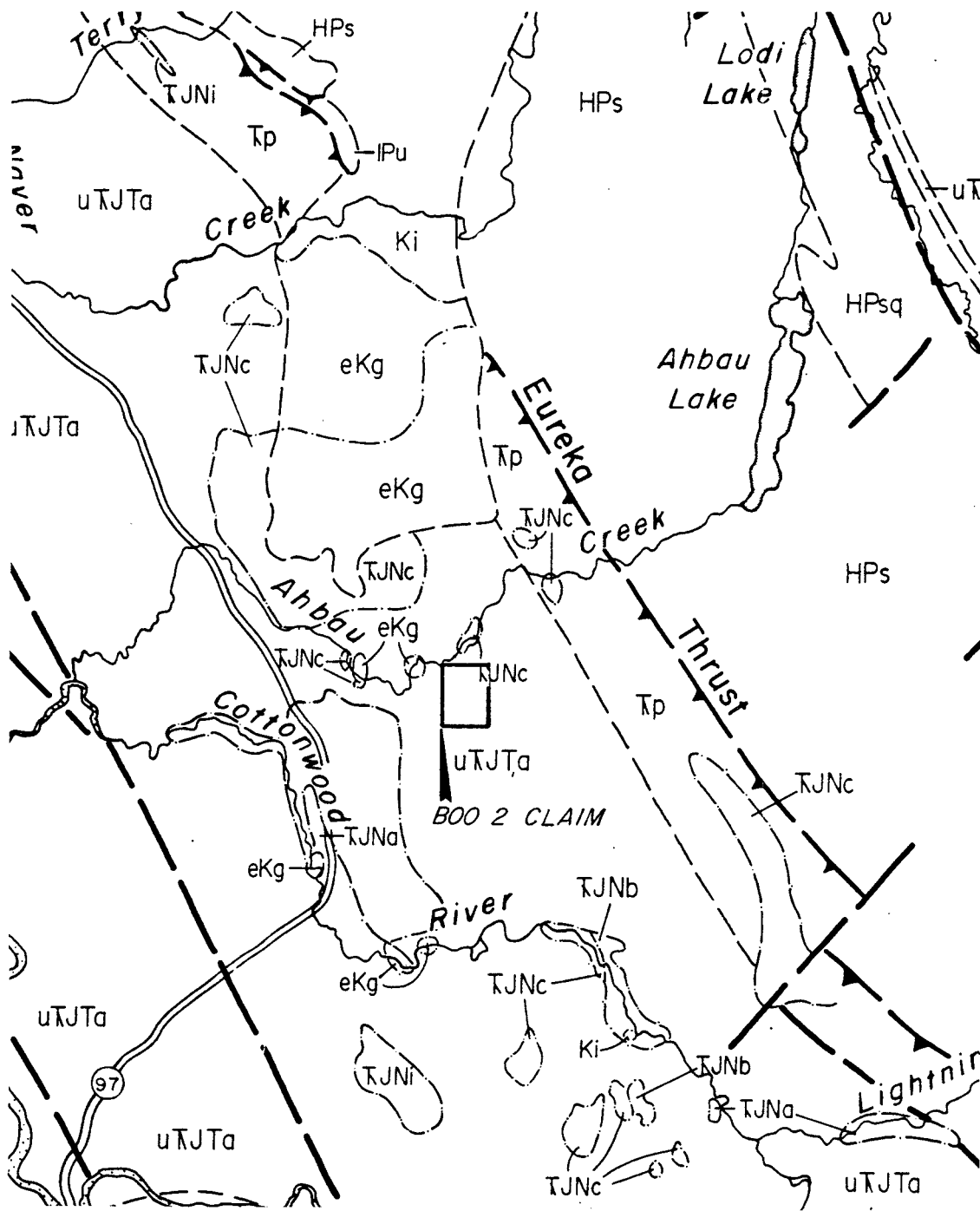
Takomkane Batholith

ITg Porphyritic granite, granodiorite, quartz diorite, quartz monzonite

ITy Hornblende syenite and monzonite

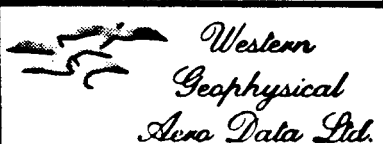
UNKNOWN AGE

gn Augen granite, gneissic biotite granite



GENERAL GEOLOGY

1 : 250,000



NOTE

Geological Compilation by B.P. Butterworth and J.C. Freeze after L.C. Struik (G.S.C. Paper 85-1A, 86-1A and Open File 781, 1101) and Map 1424 A (Parsnip River Map-Area, British Columbia.) This map not to be reproduced without written permission from:- J.C. Freeze or B.P. Butterworth (Copyright)

this point the logging roads branch eastward to the area of the Boo #2 claim.

GENERAL GEOLOGY

The general geology of the claim area is outlined on G.S.C. map 1424A, Geology of the Parsnip River area. The area was originally mapped by Amos Bowman of the Geological Survey of Canada in 1885-86 and subsequently by H.W. Tipper, also of the G.S.C., in 1961 and further updated in 1974. The applicable portion of this map is reproduced as Plate 1 of this report.

The Boo #2 claim lies within the northwesterly trending Quesnel Trough, which is predominantly underlain by the Upper Triassic - Lower Jurassic Takla Group. This unit consists of andesite flows, tuffs, agglomerate, basalt, breccia and argillite. Early Cretaceous intrusions have been mapped both to the north and south of the subject property.

PROPERTY GEOLOGY AND MINERALIZATION

No detailed geological mapping of the property is known of by the authors. Much of the claim area is overlain by glacial cover.

PREVIOUS WORK

No previous work on this property is known of by the authors.



AIRBORNE VLF-ELECTROMAGNETIC AND MAGNETIC SURVEY

This survey simultaneously monitors and records the output signal from a proton precession magnetometer and two VLF-EM receivers installed in a bird designed to be towed 100 feet below a helicopter. A gimbal and shock mounted TV camera, fixed to the helicopter skid, provides input signal to a video cassette recorder allowing for accurate flight path recovery by correlation between the flight path cassette and air photographs of the survey area. A KING KRA-10A radar altimeter allows the pilot to continually monitor and control terrain clearance along any flight path.

Continuous measurements of the earth's total magnetic field intensity and of the total horizontal VLF-EM field strength of two transmission frequencies are stored in three independent modes: an analogue strip chart recorder, digital magnetic tapes and a digital video recovery system. A three-pen analogue power recorder provides direct, unfiltered recordings of the three geophysical instrument output signals. A Hewlett-Packard 9875 tape drive system digitally records all information as it is processed through an onboard micro-computer. The magnetic and electromagnetic data is also processed through the onboard micro-computer, incorporating an analogue to digital converter and a character generator, then superimposed along with the date, real time and terrain clearance upon the actual flight path video recording to allow exact correlation between geophysical data and ground location. The input signals are averaged and updated on the video display every second. Correlation between the strip chart, digital tape and the video flight path recovery tape is controlled via fiducial marks common to all systems. Line identification, flight direction and pertinent survey information are recorded on the audio track of the video recording tape.



DATA PROCESSING

Field data is digitally recorded, with the time of day fiducial, on magnetic cassettes in a format compatible with the Hewlett-Packard 9845 computer. The recovered flight path locations are digitized and the field data is processed to produce plan maps of each of the parameters. A variety of formats are available in which to display this data.

Total field intensity magnetic information is routinely edited for noise spikes and corrected for any diurnal variations recorded on a base magnetometer located in the survey area.

Total field intensity VLF-EM signals are sensitive to topographic changes and sensor oscillation. Oscillation effects can be reduced by filters tuned to the dominant period. Long period effects attributable to topography can be removed by high pass filtering the planimetric data.

DISCUSSION OF RESULTS

The airborne survey covering the **Boo #2 claim** was flown on August 25, 1986. The survey lines were flown in an east-west direction and spaced at 200 metre intervals with data being recorded every second, providing an average station interval of 20 to 30 metres. The sensors maintained a terrain clearance of 60 metres during the course of the survey. Approximately 72 kilometres of survey was completed and analyzed to evaluate the **Boo #2 claim**.

The total field intensity magnetic data is presented in contour form as Figure 2 of this report. The VLF-EM data is presented in profile format on Figures 3 and 4 representing the Seattle and Annapolis frequency information respectively.



The magnetic contour map shows the **Boo #2 claim** lies within a very quiet magnetic area where the contours align in a north-south orientation and exhibit a very gradual gradient of 62.5 nT/kilometre, decreasing to the east. This response is anomalous for the area where the regional trends are northwest-southeast. Strong magnetic highs are observed 1 kilometre to the west and 1 kilometre to the north of the **Boo #2 claim**. The anomalous magnetic contour orientation noted appears to be a residual effect of these features and is not interpreted as reflecting any anomalous structures in the claim area.

A number of small, one line magnetic lows are mapped on the property. They may be reflecting small lenses or very narrow zones which are geologically mappable but they appear to be too small to be reliably delineated in the airborne data.

The VLF-EM data is illustrated on Figures 3 and 4. No data is presented for lines 114 to 118 and 125 because of a temporary malfunction of the digital tape drive system. The information was recorded on analogue strip charts and has been reviewed and included in this interpretation. Any conductivity features observed in these records has been duly noted and flagged on the appropriate maps.

The strongest VLF-EM signals were observed in the Annapolis frequency data. The Seattle frequency information reflects some of the same conductivity features observed in the Annapolis data but not all. Two areas of increased VLF-EM amplitude are observed. One area is spotted on the eastern ends of lines 119 to 122, to the east of the **Boo #2 claim**. The second area is noted on the western portions of lines 115 to 121. Although distinct conductivity features appear to be evident within these areas, the large zone itself is



the more interesting anomaly. Similar amplitude variations are observed to the east of the map area and the combined overall responses define a narrow conductivity lineation striking approximately 100° - 280° which coincides with a discontinuity in a northwesterly trending regional magnetic anomaly. The VLF-EM defined conductivity zone is likely reflecting a major structural break in this area.

SUMMARY AND CONCLUSIONS

During August, 1986, Western Geophysical Aero Data Ltd. flew 72 kilometres of airborne magnetometer and VLF-electromagnetometer survey across the **Boo #2 claim** northeast of Quesnel, B.C.

No anomalous magnetic features were observed on the **Boo #2 claim**. Magnetic highs were observed both to the west and north of the claim and are interpreted as reflections of dioritic intrusions in the Takla Group rocks.

A narrow, north-northwesterly trending zone of increased surficial conductivity is mapped by the VLF-EM system as crossing the **Boo #2 claim**. This feature coincides with discontinuity of northwesterly trending magnetic lineations mapped to the east of the **Boo #2 claim** and is interpreted as reflecting a major structural break. Individual, high conductivity lenses observed within the regional feature are currently unexplained.

A popular theory concerning the origin of the gold deposits in the Quesnel trough is that the gold has been remobilized from the Snowshoe group which underlies the Takla group in the claim area. The mobilization is thought to be initiated by thermal activity generated by the intrusion of dioritic magma into the country rock. Gold eventually precipitated



out of percolating solutions in any structural or lithologically permeable sites around the intrusive mass. The results of the airborne survey suggest that these conditions are present in the Boo #2 claim area and that further exploration is warranted.

RECOMMENDATIONS

Ground investigation of the west-northwesterly trending high conductivity zone is recommended as the next exploration phase. Special attention should be afforded to the flagged conductors within the larger zone. This geophysical anomaly is interpreted as reflecting a major fault and/or alteration zone which would have a high potential for gold accumulation, particularly in the proximity of diorite intrusions.

Ground exploration should consist of geological mapping, VLF-EM profiling and soil geochemical analysis for gold and the common sulphide mineralization elements. Based on encouraging results, trenching and diamond drilling may be warranted.

Respectfully submitted,



E. Trent Pezzot, B.Sc.
Geophysicist



INSTRUMENT SPECIFICATIONSBARRINGER AIRBORNE MAGNETOMETER

MODEL: Nimbin M-123
 TYPE: Proton Precession
 RANGE: 20,000 to 100,000 gammas
 ACCURACY: ± 1 gamma at 24 V d.c.
 SENSITIVITY: 1 gamma throughout range
 CYCLE RATES:
 Continuous - 0.6, 0.8, 1.2 and 1.9 seconds
 Automatic - 2 seconds to 99 minutes in 1 second steps
 Manual - Pushbutton single cycling at 1.9 seconds
 External - Actuated by a 2.5 to 12 volt pulse longer than 1 millisecond.

OUTPUTS:
 Analogue - 0 to 99 gammas or 0 to 990 gammas
 - automatic stepping
 Visual - 5 digit numeric display directly in gammas

EXTERNAL OUTPUTS:
 Analogue - 2 channels, 0 to 99 gammas or 0 TO 990 gammas at 1 m.a. or 1 volt full scale deflection.
 Digital - BCD 1, 2, 4, 8 code, TTL compatible

SIZE: Instrument set in console
 30 cm X 10 cm X 25 cm

WEIGHT: 3.5 Kg.

POWER

REQUIREMENTS: 12 to 30 volts dc, 60 to 200 milliamps maximum.

DETECTOR: Noise cancelling torroidal coil installed in air foil.



INSTRUMENT SPECIFICATIONSSABRE AIRBORNE VLF SYSTEM

Source of Primary Field: -VLF radio stations in the
frequency range of 14 KHz to 30 KHz

Type of Measurement: -Horizontal field strength

Number of Channels: Two;
Seattle, Washington at 24.8 KHz
Annapolis, Maryland at 21.4 KHz

Type of Sensor: -Two ferrite antennae arrays, one
for each channel, mounted in
magnetometer bird

Output: -0 - 100 mV displayed on two
analogue meters (one for each
channel)
-recorder output posts mounted on
rear of instrument panel

Power Supply: -Eight alkaline "AA" cells in main
instrument case (life 300 hours)
-Two 9-volt alkaline transistor
batteries in bird (life 300 hours)

Instrument Console: -Dimensions - 30 cm X 10 cm X 25 cm
-Weight - 3.5 Kg



INSTRUMENT SPECIFICATIONSFLIGHT PATH RECOVERY SYSTEMi) T.V. Camera:

Model: RCA TC2055 Vidicon
Power Supply: 12 volt DC
Lens: variable, selected on basis of
expected terrain clearance.
Mounting: Gimbal and shock mounted in
housing, mounted on helicopter
skid.

ii) Video Recorder:

Model: Sony SLO-340
Power Supply: 12 volt DC / 120 volt AC (60Hz)
Tape: Betamax 1/2" video cassette -
optional length.
Dimensions: 30 cm X 13 cm X 35 cm
Weight: 8.8 Kg
Audio Input: Microphone in - 60 db low
impedance microphone
Video Input: 1.0 volt P-P, 75 Ω unbalanced, sync
negative from camera.

iii) Altimeter:

Model: KING KRA-10A Radar Altimeter
Power Supply: 27.5 volts DC
Output: 0-25 volt (1 volt /1000 feet) DC
signal to analogue meter,
0-10 v (4mv/ft) analogue signal to
microprocessor.
Mounting: fixed to T.V. camera housing,
attached to helicopter skid.



INSTRUMENT SPECIFICATIONSDATA RECORDING SYSTEMi) Chart Recorder

Type: Esterline Angus Miniservo III
Bench AC Ammeter - Voltmeter
Power Recorder.

Model: MS 413B

Specification: S-22719, 3-pen servo recorder

Amplifiers: Three independent isolated DC
amplifiers (1 per channel)
providing range of acceptable
input signals.

Chart: 10 cm calibrated width z-fold
chart.

Chart Drive: Multispeed stepper motor
chart drive, Type D850, with
speeds of 2,5,10,15,30 and 60
cm/hr. and cm/min.

Controls: Separate front mounted slide
switches for power on-off,
chart drive on-off, chart
speed cm/hr. - cm/min. Six
position chart speed selector
individual front zero
controls for each channel.

Power Requirements: 115/230 volts AC at 50/60 Hz
(Approximately 30 W).

Writing System: Disposable fibre tipped ink
cartridge (variable colors)

Dimensions: 38.6 cm X 16.5 cm X 43.2 cm

Weight: 9.3 kg.



ii) Digital Video Recording System

Type: L.M. Microcontrols Ltd.
Microprocessor Control Data
Acquisition System.

Model: DADG - 68

Power Requirements: 10 - 14 volts DC, Maximum 2
amps.

Input Signal: 3,0 - 100 mvolt DC signals
1,0 - 25 DC signals

Microprocessor: Motorola MC-6800

CRT Controller: Motorola MC-6845

Character Generator: Motorola MCM-6670

Analogue/Digital
Convertor: Intersil 7109

Multiplexer: Intersil IH 6208

Digital Clock: National MM 5318 chip
9 volt internal rechargeable
nickle-cadmium battery.

Fiducial Generator: internally variable time set
controls relay contact and
audio output.

Dimensions: 30 cm X 30 cm X 13 cm

Weight: 3 kg.

iii) Digital Magnetic Tape

Type: Hewlett Packard cartridge
tape unit.

Model: 9875A

Power Requirements: 24 volt d.c.

Data Format: HP'S Standard Interchange
Format (SIF)

Tape Cartridge: HP 98200A 225K byte cartridge
compatible with HP Series
9800 desktop computers.



Tape Drive: Dual tape drives providing up to 8 hours continual recording time.

Controller: Internal micro-computer provides 23 built in commands External computer generated commands.



COST BREAKDOWN

PRESURVEY PREPARATION

Mosaic	450.00
Video, Digital, Analogue Tapes and Consumables	<u>110.00</u>
Subtotal	\$560.00

SURVEY COSTS

Personnel	Position	Production	Rate
M. Seyward	Operator	Mar.24-27/86	280/day .. 1120.00
J. Seyward	Navigator	Mar 24-27/86	180/day ... 720.00

Equipment Lease	1250.00
Helicopter Charter 8 hours @ 460/hr	3680.00
9 hours @ 410/hr	3690.00
Fuel 4 drums @ 175/drum	700.00
Vehicle 4 days @ 100/day all inclusive	400.00
Meals & Accommodations 10 man days @ 50/day	<u>500.00</u>
Subtotal	\$12,060.00

Total Logistical Costs \$12,620.00

This survey was completed as part of a larger participation survey which covered 268 mineral claim units. **Barytex Resources Corps.** portion of the Total Logistical cost is 8%.

12,620.00 x 8% = \$1,010.00



The following costs are attributed directly to the **Boo #2 claim** project.

Flight Path Recovery	72 km @ 2.05/km	148.00
Computer Processing: Magnetic Posting & Contouring		
	72 km @ 5.50/km	396.00
	VLF-EM profiling	
	i) Seattle 72km @ 3.50/km	252.00
	ii) Annapolis 72km @ 3.50/km	252.00
Interpretation and report		750.00
Drafting		152.00
Reproduction		<u>240.00</u>
	Subtotal	2,190.00

TOTAL ASSESSMENT VALUE	\$3,200.00
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STATEMENT OF QUALIFICATIONS

NAME: PEZZOT, E. Trent

PROFESSION: Geophysicist - Geologist

EDUCATION: University of British Columbia -
B.Sc. - Honors Geophysics and Geology

PROFESSIONAL
ASSOCIATIONS: Society of Exploration Geophysicist

EXPERIENCE: Three years undergraduate work in geology -
Geological Survey of Canada, consultants.

Three years Petroleum Geophysicist,
Senior Grade, Amoco Canada Petroleum Co. Ltd.

Two years consulting geophysicist,
Consulting Geologist - British Columbia,
Alberta, Saskatchewan, N.W.T., Yukon,
Western U.S.A.

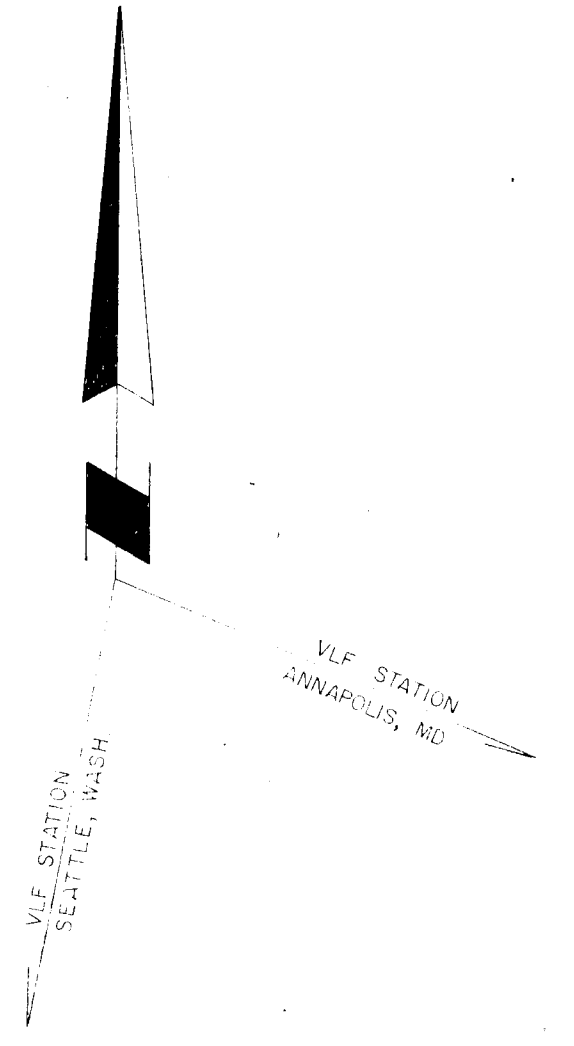
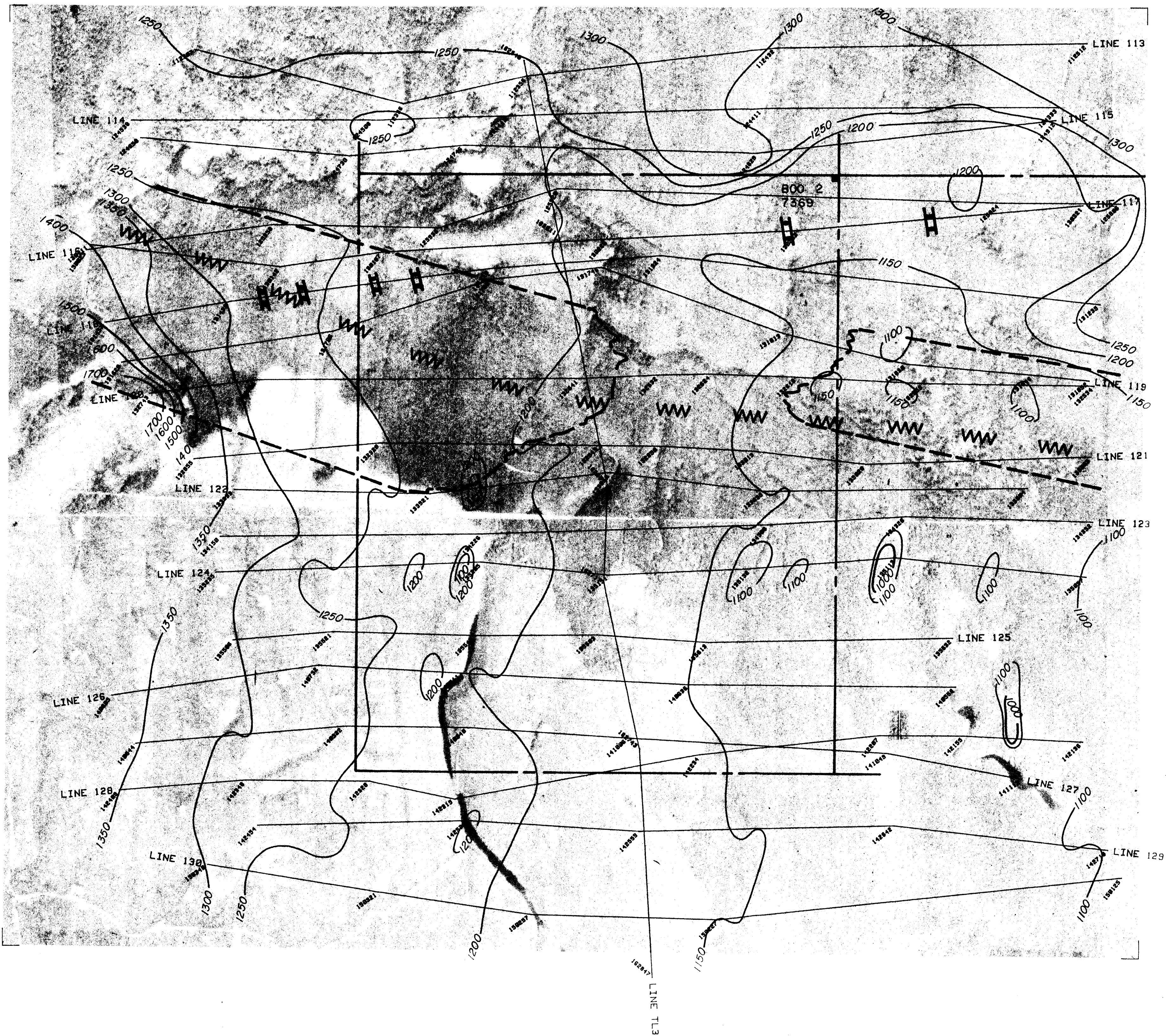
Seven years geophysicist with
White Geophysical Inc. and Western
Geophysical Aero Data.



REFERENCES

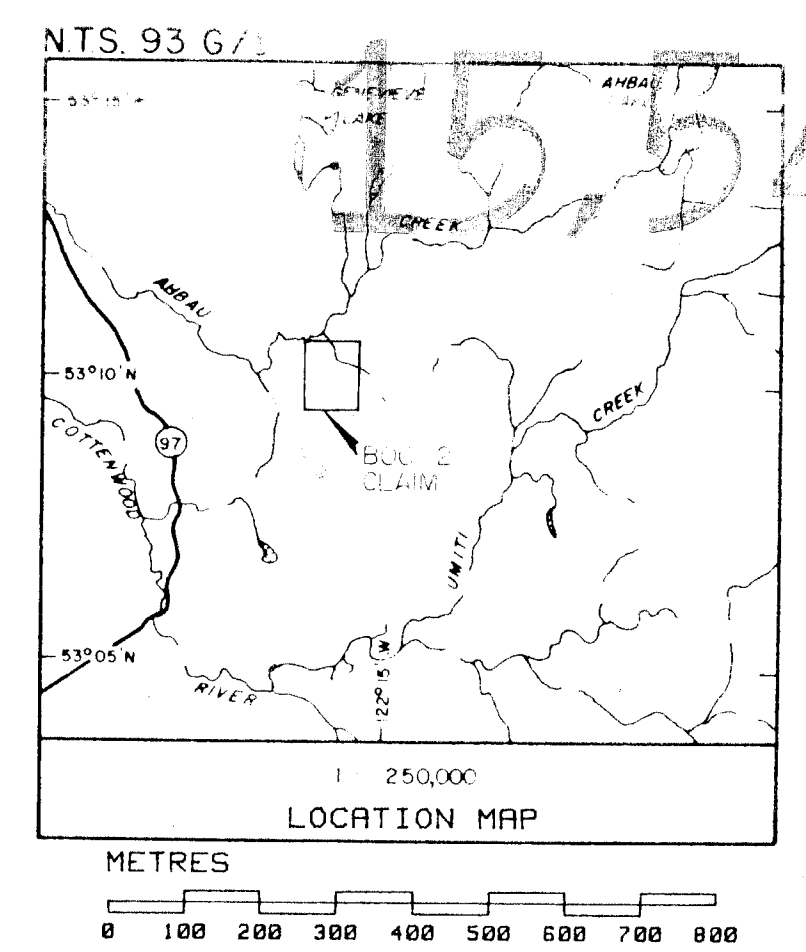
- FREEZE, J.C. Geological and Geochemical report on the Umiti Creek Property, Cariboo Mining Division for Kargen Development Corp.; Jan. 1986.
- TIPPER, H.W. Geology of the Parsnip River Area: G.S.C. map 1424A; 1961, 1974.





- KEY
- INSTRUMENT: Barringer M-123 Magnetometer
 - Data corrected for diurnal variations
 - Base value = 57000 nT
 - Contour interval = 50 nT
 - Sensor Elevation = 60 metres
 - Claim boundary
 - Claim post
 - Magnetic Low
 - W W W Inferred Fault
 - || VLF-EM Conductor
 - Area of increased VLF-EM signal amplitude

GEOLOGICAL BRANCH
ASSESSMENT REPORT

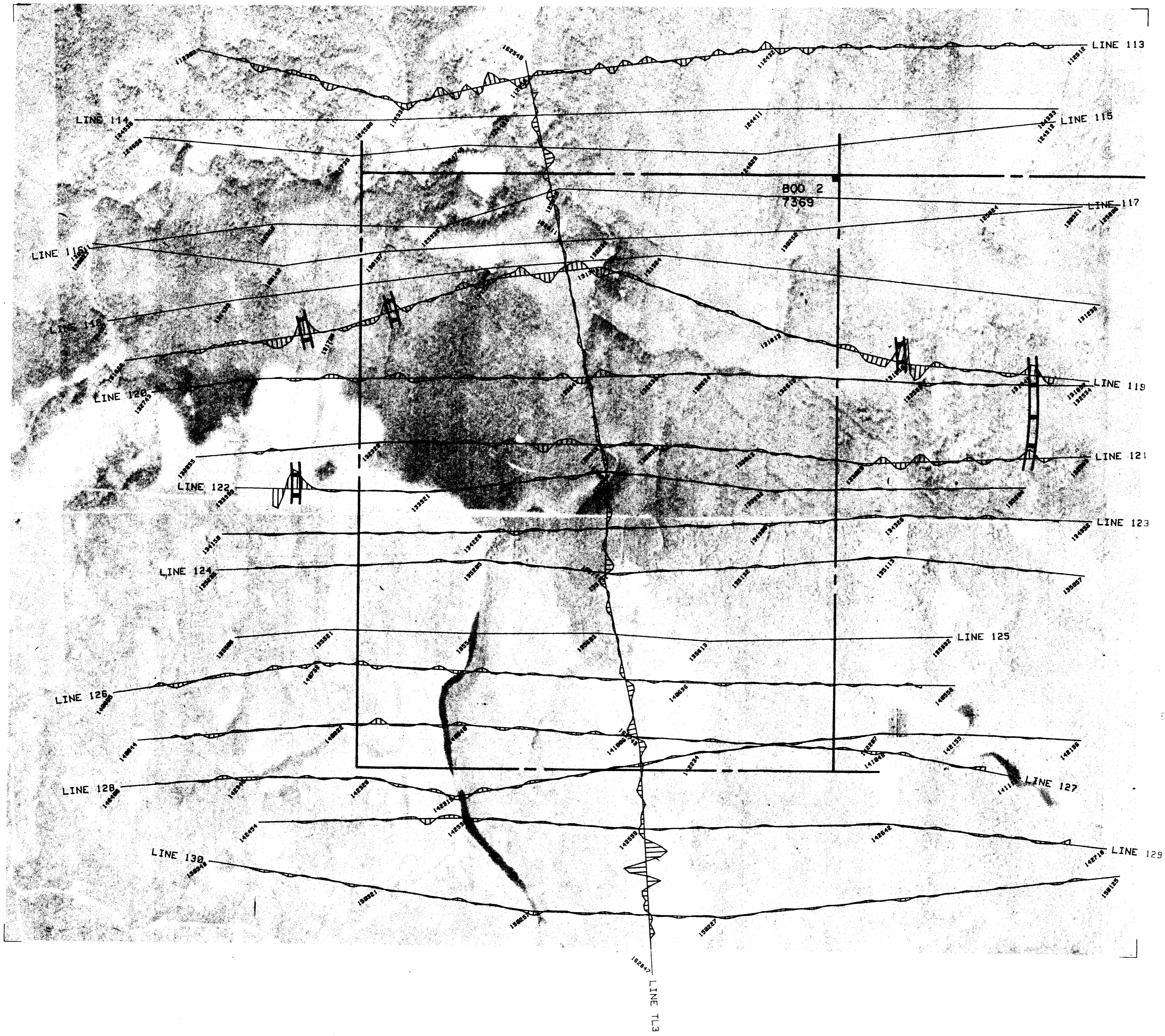


BARYTEX RESOURCE CORP.
BOO #2 CLAIM
MAGNETIC CONTOUR MAP
TOTAL FIELD INTENSITY (nT)

DATE: AUG.25/86 FIG.: 2

Western Geophysical Aero. Data Ltd.

To accompany the Geophysical Report on the Boo #2 Claim

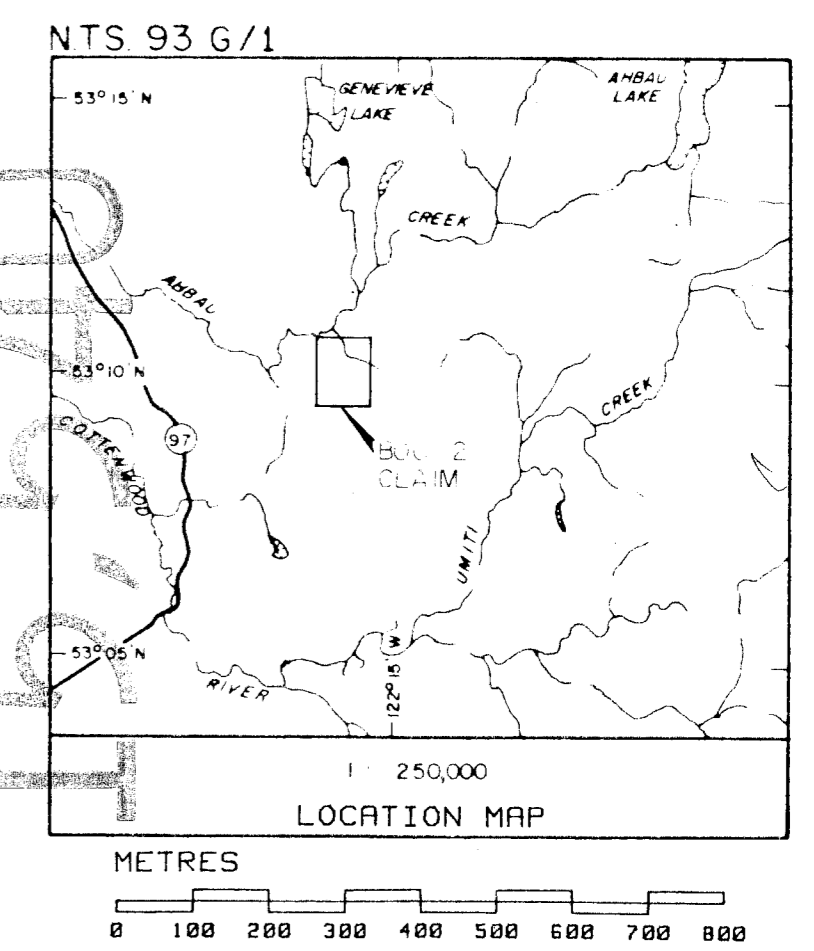


KEY

INSTRUMENT: Sabre Total Field Intensity VLF-EM
 Transmitter Station: Seattle, Wa. (24.8 Khz.)
 Vertical Scale: 10%/cm.
 Sensor Elevation: 60 metres

--- Claim boundary
 ■ Claim post
 WW Inferred Fault
 III VLF-EM Conductor Axis

GEOLOGICAL BRANCH
ASSESSMENT REPORT

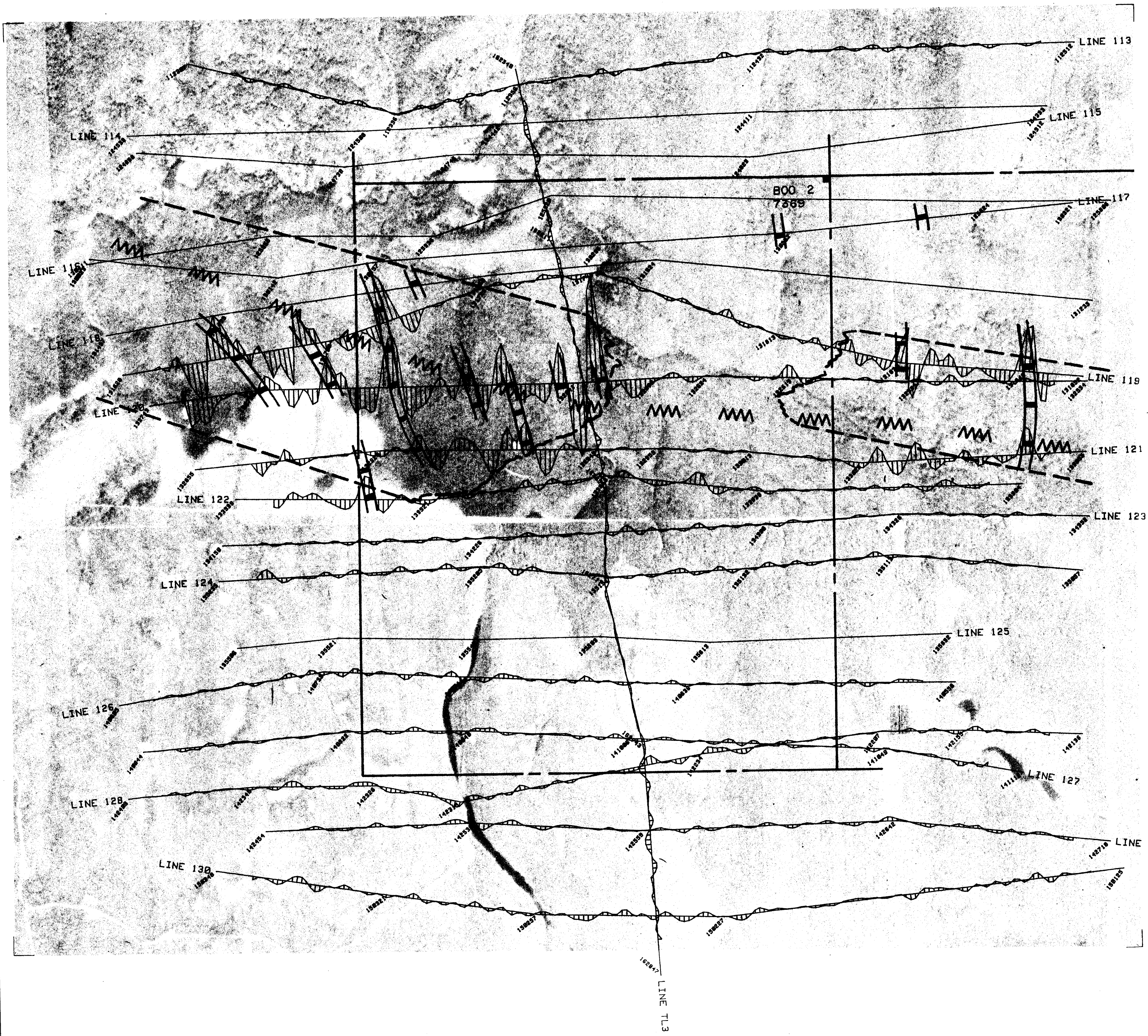


*Western
Geophysical
Serv Data Ltd.*

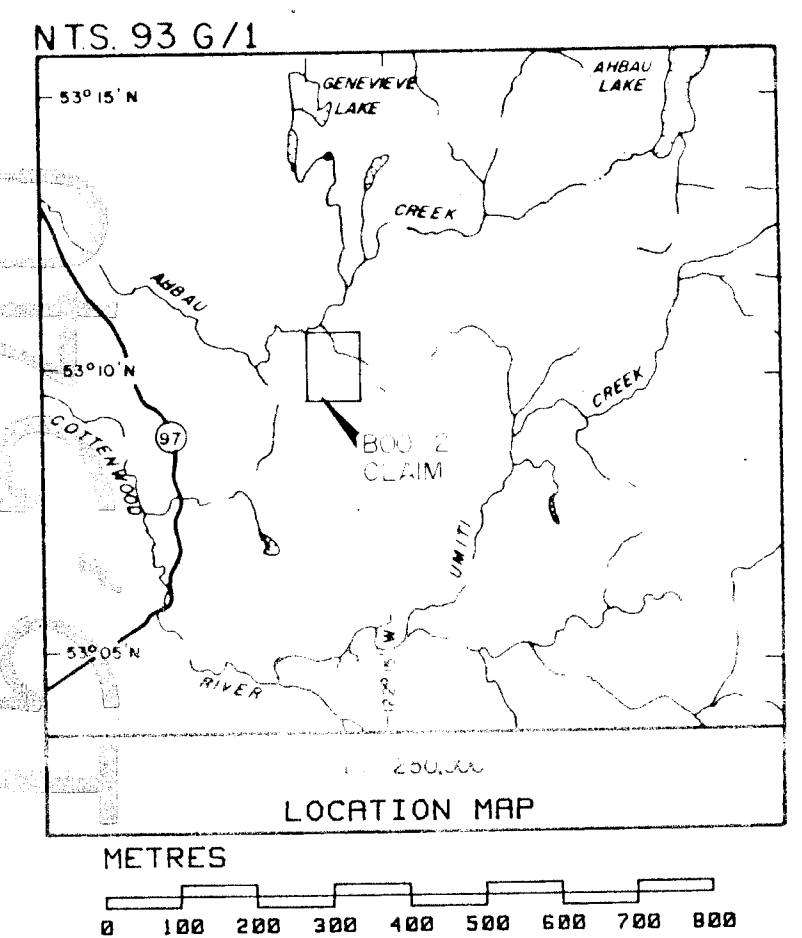
To accompany the Geophysical Report on the Boo #2 Claim

BARYTEX RESOURCE CORP.
 BOO #2 CLAIM
 VLF-EM PROFILE MAP (SEATTLE)
 TOTAL HORIZONTAL FIELD INTENSITY (%)

DATE: AUG. 25/86	FIG.: 3
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- KEY
- INSTRUMENT: Sabre Total Field Intensity VLF-EM
 - Transmitter Station: Annapolis, Md. (21.4 Khz.)
 - Vertical Scale: 10%/cm.
 - Sensor Elevation: 60 metres
 - Claim boundary
 - Claim post
 - W W Inferred Fault
 - || VLF-EM Conductor Axis
 - Area of increased VLF-EM signal amplitude



1000
900
800
700
600
500
400
300
200
100
0

BARYTEX RESOURCE CORP.
 BOO #2 CLAIM
 VLF-EM PROFILE MAP (ANNAPOLIS)
 TOTAL HORIZONTAL FIELD INTENSITY (%)
 DATE: AUG.25/86 FIG.: 4

*Western
 Geophysical
 Aero Data Ltd.*

To accompany the Geophysical Report on the Boo #2 Claim