

**GEOLOGICAL AND GEOPHYSICAL REPORT**

on the

**MERIT M CLAIM (4 UNITS)**

Record No. 4159 (11)  
Slocan Mining Division, British Columbia  
N. Lat. 50°01'30" W. Long. 117°13'00"

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

82 - K - 3E

**14,343**

**FILMED**

Owner

**WEST COLUMBIA ENERGIES INC.**  
705 - 543 Granville Street  
Vancouver, B.C.  
V6C 1X8

**MINISTRY OF ENERGY, MINES  
AND PETROLEUM RESOURCES**  
Rec'd **FEB 26 1986**  
SUBJECT \_\_\_\_\_  
FILE \_\_\_\_\_  
VANCOUVER, B.C.

Operator

**MURJOH RESOURCES INC.**  
705 - 543 Granville Street  
Vancouver, B.C.  
V6C 1X8

Consultant

**BOA SERVICES LTD.**  
302 - 119 West Pender Street  
Vancouver, B.C.  
V6B 1S5

February 19, 1986

**Paul P.L. Chung  
Consulting Geologist**

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## **INTRODUCTION**

The Merit M claim consists of a four unit block of mineral claims situated in the Slocan Mining Division, southeastern British Columbia. The property is owned by West Columbia Energies Inc. and is operated by Murjoh Resources Inc. both of suite 705 - 543 Granville Street, Vancouver, B.C. This report, prepared at the request of the directors of Murjoh Resources Inc., describes the 1985 exploration program.

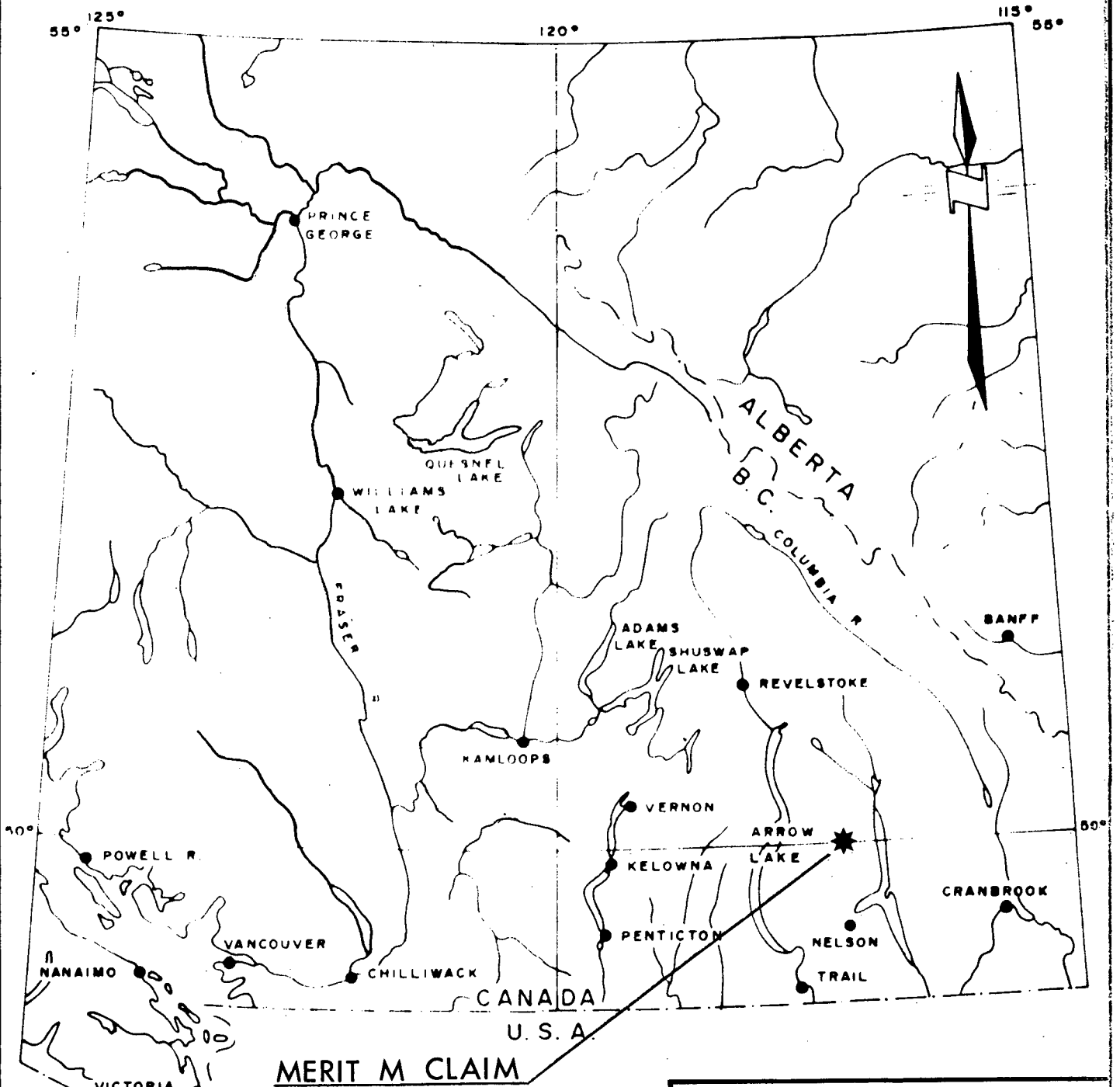
The purpose of the exploration program was to evaluate the exploration potential of the Merit M claim. This assessment work was undertaken between September 26 and October 28, 1985.

## **SUMMARY**

The Merit M property consists of one mineral claim containing four claim units for a total land area of 100 hectares (247 acres), subject to survey.

The ground is located about one kilometre south of Highway 31A between Kalso and New Denver, near the confluence of McGuigan and Seaton Creeks, and about two kilometres south-southwest of the former (now abandoned) Zincton Townsite.

The Town of Sandon is situated some five kilometres to the south of the Merit M claim area.



**MERIT M CLAIM**

BOA SERVICES LTD. GEOLOGICAL CONSULTANTS, Van., B.C.	
WEST COLUMBIA ENERGIES INC. VANCOUVER, BRITISH COLUMBIA	
<b>LOCATION MAP</b>	
<b>MERIT M CLAIM</b>	
<b>SLOCAN MINING DIVISION</b>	
Date: OCT. 1985	Scale: 1" = 64 Miles
Dwn by: P.R.L.C.	Dwg no. 1

Metasediments, belonging to the Slocan Group, underlie the property area and have been intruded by acidic rocks of a granitic nature. This group of rocks is the host, particularly in the vicinity of beds of limestone, to several important former silver, lead and zinc producing mines located nearby, such as the Rambler-Cariboo, and the Payne.

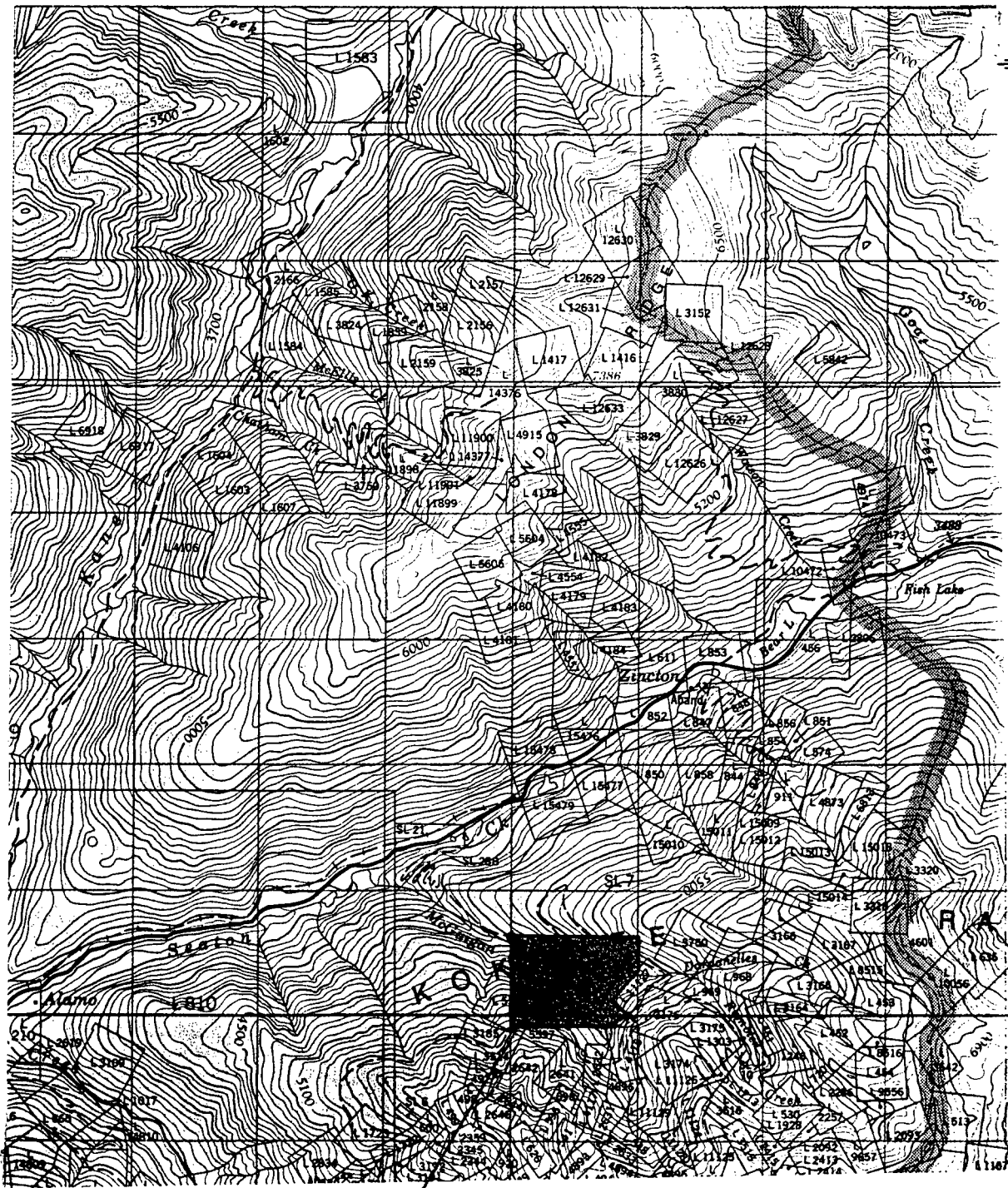
A number of moderate to strong geophysical anomalies have been delineated on the property and further work is warranted to test the property.

#### PROPERTY AND OWNERSHIP

The Merit M claim comprises four claim units for a total land area of 100 hectares (247 acres), subject to survey, and is located in the Slocan Mining Division, British Columbia

Claim Name	Record No.	Units	Record Date	Record Holder
Merit M	4159 (11)	4	Nov. 29, 1983	West Columbia Energies Inc.

The Merit M claim is shown on the British Columbia Mineral Titles Map M82-K-3E (Figure 2).



MERIT M CLAIM

BOA SERVICES LTD.  
GEOLOGICAL CONSULTANTS, VANCOUVER, B.C.

WEST COLUMBIA ENERGIES INC.  
VANCOUVER, BRITISH COLUMBIA

CLAIM MAP

MERIT M CLAIM  
SLCCAN MINING DIVISION, B.C.

Drawn by: P.P.L.C.

Scale: 1 : 50,000

Date: OCT. 1985

Figure No.: 2

To accompany report by P.P.L. Chung

### **LOCATION, PHYSIOGRAPHY AND ACCESS**

The Merit M ground is situated some five kilometres north of the Town of Sandon, and some eleven road kilometres northwest of New Denver, Kootney Land District, British Columbia.

The property is located about a kilometre south of Highway 31A and astride McGuigan Creek.

Road access is readily available along Highway 31A from either Kaslo or New Denver to a bush road leading southward along McGuigan Creek to the property.

The topography is steep, north-facing, and travel over the claim area is best on foot.

Elevations vary from about 4500 to about 5300 feet above sea level over the property terrain.

In the environmental sense, the Merit M property area is considered to be moderately sensitive.

### **HISTORY**

The ground now held by the Merit M mineral claim may have been part of the former Payne, Rambler, Cariboo and St. Keverne Groups of claims.

The Payne vein was discovered on September 9, 1891. The property was sold to Scott McDonald and S.S. Bailey, and later,

about 1896, to A.W. McCune. After taking out a large amount of high-grade ore, McCune sold out to the Payne Consolidated Mining Company of Montreal. The company built a concentrator with capacity of 110 tons a day. The property was then sold at an auction around 1909. In 1910, a fire destroyed or seriously damaged all the surface equipment including the mill, tramway, and pipe lines.

Records of production are incomplete. Up to 1905, shipments amounted to over 50,000 tons of silver-lead ore, averaging 120 ounces silver to the ton and 68 percent lead, and some 6000 tons of zinc blende, crude and concentrated. The aggregate value of this ore is estimated at about \$5,000,000.



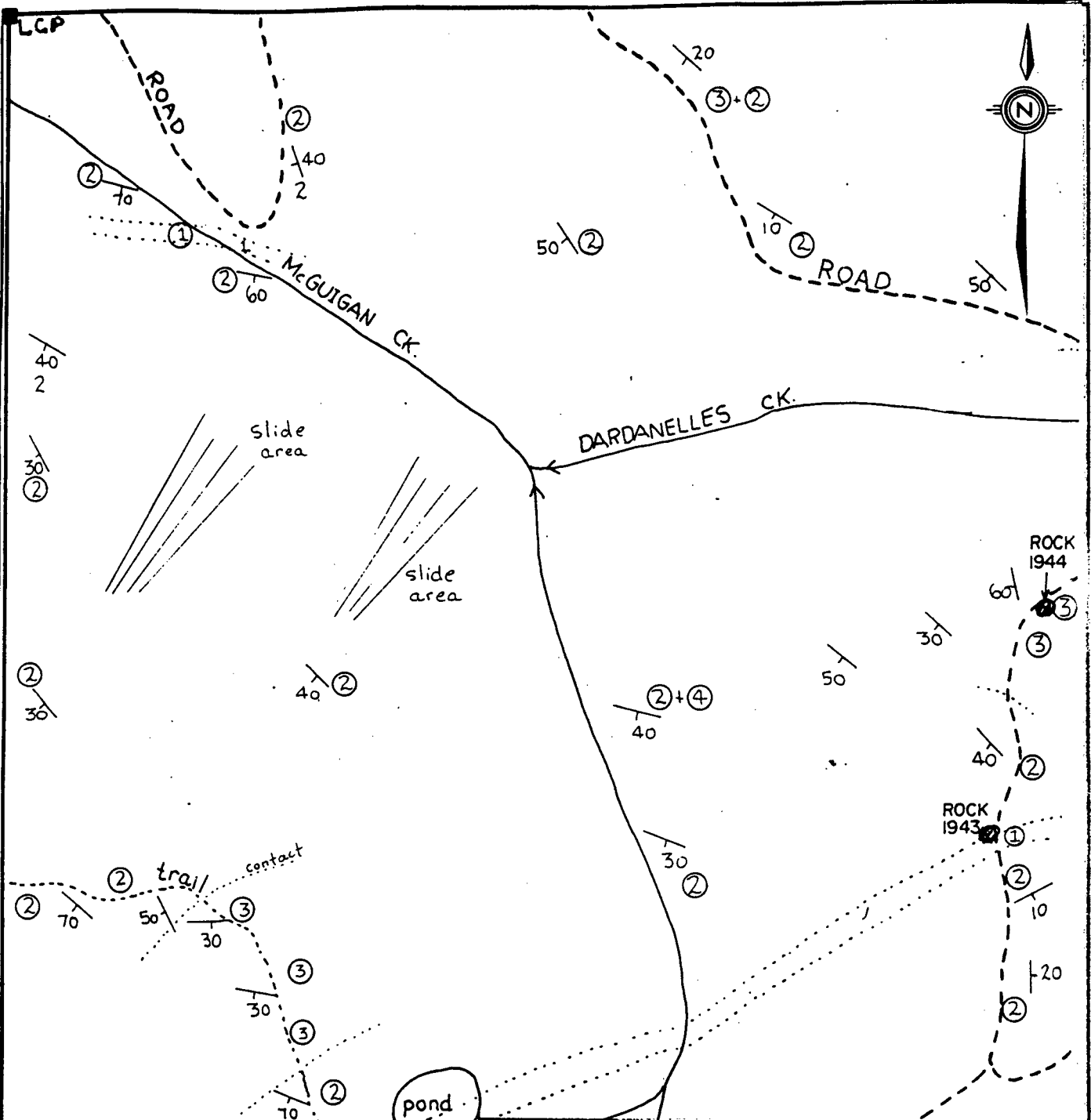
**GEOLOGY** (Figure 3)

Mr. M. Linn of Kalso, B.C., an independent geologist, was commissioned by Murjoh Resources Inc. to map the Merit M claim in September, 1985. The following is a summary based on the work performed by Mr. Linn.

Three lithological units underlie the claim area. They are phyllites, slates, and carbonates (limestones) belonging to the Triassic-Jurassic Slocan Group. Acidic intrusives, probably associated to the Nelson Batholith Complex are emplaced into the metasediments.

Slate crops out at the southwestern portion and near the eastern boundary of the claim. A small amount of limestone was found in the central and the northeast portion of the property. The remainder of the claim is underlain by phyllite with occasional granitic dykes. Bedding attitudes tend to strike in a northwesterly direction, but may vary from east-west to northeast. Dips are generally moderately to steeply west, but can change to southern or eastern dip. The variation in primary bedding attitudes is probably due to folding, which in the area, commonly has a northwesterly axis.

Two rock samples (Nos. 1943 and 1944) were taken by Mr. M. Linn and were sent to Chemex Labs for analysis. The results were not encouraging. However, since only two samples were taken, the results cannot be considered as conclusive.



25

**LEGEND**

- 1 syenite
- 2 phyllite
- 3 slate
- 4 carbonate
- LCP ( legal corner post
- 1943 x rock chip sample

To accompany report by P.P.L. Chung

MODIFIED AFTER A PLAN BY  
M. LINN SUBMITTED TO  
WEST COLUMBIA ENERGIES INC.

BOA SERVICES LTD.  
GEOLOGICAL CONSULTANTS, VAN., B.C.

WEST COLUMBIA ENERGIES INC.  
VANCOUVER, BRITISH COLUMBIA

**GENERAL GEOLOGY MAP**  
**MERIT M CLAIM**  
**SLOCAN MINING DIVISION, B.C.**

Drawn by:	Scale: 1: 5,000
Date: Oct. 27, 1985	Figure No.: 3

## **GEOPHYSICAL SURVEY**

A combined magnetometer and very low frequency (VLF) survey was carried out over the Merit M claims between October 22 - 28. Due to adverse weather conditions, the survey was terminated before completion and thus only the northern portion of the claim was surveyed. A total of 4.5 line kilometres of survey was carried out. Readings were taken at intervals of 25 metres along east-west control lines which were 100 metres apart.

### **Magnetometer Survey**

A Barringer GM-122 proton magnetometer (Serial No. 7534) with a standard 5 foot staff for the sensor head was used in the survey. Six-second cycles were used for more consistent measurements.

The area covered by the magnetometer survey (Figure 8) is considered to be relatively "flat" except a single reading magnetic "high" on Line 3+00S at 6+50E. This reading is some 500 gammas above the magnetic intensity of the area surveyed. The reason for this magnetic "high" is unclear, however, it does correspond to an anomaly from the accompanying VLF-EM survey.

### **VLF-EM Electromagnetic Survey**

A Geonics EM-16 VLF Electromagnetometer (Serial No. 18975) was used in the survey. This instrument acts as a receiver only. It utilizes the primary electromagnetic fields generated by VLF (very low frequency) marine communication stations. These

stations operate at a frequency between 15 to 25 KHz, and have a vertical antenna current resulting in a horizontal primary field. Thus, this VLF-EM measures the dip angle of the secondary field induced in a conductor.

For maximum coupling, Cutler, Maine (24.0 KHz) was chosen to be the primary transmitting station, while the Seattle, Washington (24.8 KHz) transmitting station was selected as a secondary, perpendicular transmitter to delineate any cross-cutting structures.

Readings were filtered in the field by the operator, as described by D.C. Fraser, Geophysics Vol. 34, No. 6, (December, 1969). The advantage of this method is that it removes the dc and attenuates long spatial wave lengths to increase resolution of local anomalies, and phase shifts the dip angle data by 90 degrees so that crossovers and inflections will be transformed into peaks to yield contourable quantities.

Figures 5 and 7 show the VLF-EM Fraser filter data for transmitting stations Seattle, Washington and Cutler, Maine, respectively. The percent dip angle data has also been plotted for each transmitting station on Figures 4 and 6.

A study of the Fraser plots and the dip angle plots shows moderate to strong anomalies on Lines 0+00S thru 4+00S in the area of 1+00E and also in the area of 7+00E thru 8+00E.

## CONCLUSIONS

The results of the geological and the geophysical surveys are quite encouraging despite the low rock geochemical results. Geological mapping has established competent rocks similar to former producing silver, lead-zinc properties in the area.

The VLF-EM survey was successful in delineating two anomalous zones. It is unfortunate that the survey had to be postponed due to weather conditions, since the anomalies appear to extend eastward beyond the surveyed area.

## RECOMMENDATIONS

1. Completion of the combined magnetometer and VLF - EM electromagnetic survey.
2. A soil geochemical survey on existing grid lines should be conducted over areas of the claim deemed acceptable to soil geochemistry (areas uncontaminated by transported overburden).
3. Geochemical anomalies should be detailed by closely spaced soil sampling and geological mapping. Areas of geophysical anomalies should also be mapped in detail.

**COST ESTIMATE**


Completion of geophysical survey and soil geochemistry survey.

Soil Sampling	\$2,000.00
Analyses	1,500.00
Combined VLF-EM and Magnetometer Survey	1,700.00
Vehicle	600.00
Room and Board	400.00
Report and Map Preparation	<u>1,200.00</u>
	7,400.00
Contingency ( 10%)	<u>700.00</u>
<b>TOTAL</b>	<b>\$8,100.00</b>

**CERTIFICATE**

I, Paul P.L. Chung, of the City of Richmond, Province of British Columbia, DO HEREBY CERTIFY THAT:

1. I am a Consulting Geologist with business address office at Suite 302 - 119 West Pender Street, Vancouver, British Columbia, V6B 1S5; and President of Boa Services Ltd.
2. I am a graduate in geology with a Bachelor of Science (Major: Geology) degree from the University of British Columbia, in 1981.
3. I have practised my profession for the past five years.  
  
Pre-graduate experience in Geology, Geochemistry, Geophysics in British Columbia and Yukon (1979-1980).  
  
Two years as Exploration Geologist with Sulpetro Minerals Limited conducting geological and geophysical (VLF-EM, magnetometer, I.P. gravity, H.L.E.M.) programs in British Columbia, Yukon, Ontario, Quebec and Nova Scotia. (1981-1982).  
  
Three years as Consulting Geologist with Boa Services Ltd. Active geological and geophysical exploration in British Columbia, Yukon and Western United States.
4. I supervised the geophysical survey and conducted the VLF-EM survey on the Merit M claims during the period of October 22-28, 1985; and prepared this report documenting all of the data from the 1985 exploration program. This report is based upon field work and research by the author.
5. I own no direct, indirect or contingent interest in the property, nor shares in or securities of WEST COLUMBIA ENERGIES INC. or MURJOH RESOURCES INC.

  
**Paul P.L. Chung**  
 Consulting Geologist

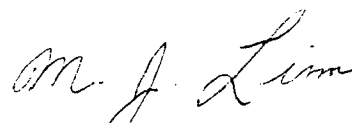
Dated at Vancouver, British Columbia, this 19<sup>th</sup> day of February, 1986.

CERTIFICATE

I Micheal Linn, of the village of Kaslo, Province of British Columbia, hereby certify as follows :

- I am a Geologist residing at 660 Arena Avenue, Kaslo B.C., with a mailing address of Box 422, Kaslo, B.C., VOG 1M0.
- I graduate with a degree of Bachelor of Science, Major in Geology, from the University of British Columbia in 1970.
- I conducted the geological mapping program on the MERIT M claim during September - October 1985.
- I have no direct, indirect or contingent interest in the securities of West Columbia Energies Inc., or of Murjoh Resources Inc.

Dated at Kaslo, B.C. this 4th day of December, 1985.

  
Micheal Linn  
Geologist



**STATEMENT OF COSTS**

- Establishment of 6 line kilometres of survey control grid
- Combined VLF-EM and magnetometer survey
- Geological mapping at a 1:5000 scale
- Collection and analysis of two rock samples for gold, silver and zinc
- Filing of assessment work with the Mining Recorder's Office at Kalso
- Collection, plotting, drafting, interpretation and documentation of all data from the 1985 exploration program

**1. Personnel**

P. Chung: VLF-EM operator 7 days at \$200/day	\$1400.00	
G. Caulfield - magnetometer operator - 7 days at \$180/day	1260.00	
M. Linn - geologist 3 days at \$130/day	390.00	
J. Settle - geological assistant 3 days at \$100/day	<u>300.00</u>	\$3350.00

2. Line cutting		1022.00
-----------------	--	---------

3. Vehicles: 1 GMC 4x4 3/4 ton truck		
7 days at \$35/day	\$ 245.00	
450 kms at \$.35/km	157.50	
1 Datson 4x4		
3 days at \$40/day	<u>120.00</u>	522.50

Food		277.24
------	--	--------

Lodging		262.15
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Geophysical Equipment Rental		
VLF-EM (EM-16): 1 week	\$ 250.00	
GM-122 proton magnetometer: 1 week	<u>250.00</u>	500.00
Recording Fees for Merit M claim		280.00
Expendable supplies		<u>39.18</u>
<b>Total Field Expense</b>		<b>6253.07</b>

Analyses (Chemex Labs Ltd., Vancouver B.C.)		
2 rock samples for Au, Ag, Zn plus preparation	\$ 53.50	
Report and Map Preparation		
P. Chung - geologist 4 days at \$200/day	800.00	
Drafting 3 hours at \$15/hr	45.00	
Typing	127.01	
Reproduction and printing	<u>93.60</u>	<u>1119.11</u>
<b>Total Expenses for 1985 Exploration Program</b>		<b>\$7372.18</b>

**REFERENCES**

Information relevant to the Merit M mineral claim is contained in the following publications:

Geological Survey of Canada, Memoirs 173, 184, MAP 273A

Report of the Zinc Commission 1906, pp. 194-197

Annual Report of the Minister of Mines for the years:

1892, p. 531;  
1893, p. 1047, 1052, 1058, 1074, 1083;  
1895, p. 679;  
1896, p. 6, 37, 49, 57, 60, 88, 90, 560;  
1897, p. 533;  
1899, pp. 688, 843, 846;  
1902, p. 147, 148;  
1904, pp. 186-189, 200;  
1905, p. 160, 161;  
1913, p. 126;  
1914, p. 286;  
1921, pp. 134;  
1928, p. 308;  
1935, pp. E35, A26.

Report on the MERIT WEST Mineral Claim (4 units) for Aegis Energy Ltd. and dated March 5, 1984 by Donald W. Tully, P.Eng.

Report on the MERIT SOUTH Mineral Claim (8 units) for Kobold Resources Ltd. and dated April 2, 1984 by Donald W. Tully, P.Eng.

Report on the MERIT Mineral Claim (4 units) for Trove Resources Ltd. and dated April 3, 1984 by Donald W. Tully, P.Eng.

Report on the SMOKE #1, #2, #3, #4, SILVER, MERIT M Mineral Claims (14 units) for West Columbia Energies Inc. and dated November 4, 1985 by Donald W. Tully, P.Eng.

APPENDIX I

Chemex Lab Ltd.  
Certificate of Analysis - Rocks

# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1

Phone: (604) 984-0221  
Telex: 043-52597

## CERTIFICATE OF ASSAY

TO : PROSOURCE MANAGEMENT LTD.

705 - 543 GRANVILLE ST.  
VANCOUVER, B.C.  
V6C 1X8

\*\* CERT. # : A8517518-001-  
INVOICE # : I8517618  
DATE : 25-OCT-85  
P.O. # : NONE

Sample description	Prep code	Zn %	Ag oz/T		Au oz/T		---	---	---
			RUSH	FA	RUSH	FA			
1942	236	0.06	0.01	<0.003					
1943	236	0.07	0.16	<0.003					
1944	236	0.06	0.20	<0.003					

VOI rev. 4/85

*W. Santonini*  
.....  
Registered Assayer, Province of British Columbia

APPENDIX II

GM - 122 Proton Magnetometer  
Principle of Operation  
Specifications

## GM-122 PROTON MAGNETOMETER

### General Description, Principle of Operation

If a proton rich fluid such as kerosene, jet fuel, heptane, etc. is placed into a magnetic field the protons will align along the magnetic field vector. The magnetic field is induced in the sensor upon depressing the pushbutton. Then this field is suddenly removed. Protons which behave as elementary gyroscopes will start precessing around the remaining magnetic field - that of the earth. The precession frequency is directly proportional to the magnetic field of the earth. The magnetometer counts this frequency, divides it by the appropriate constant to obtain a reading in gammas ( $1 \gamma = 10^{-5}$  gauss) and displays the reading in the form of a 5 digit number.

## Section 1

### SPECIFICATIONS

### GM-122 PROTON MAGNETOMETER

Range:	20,000 to 99,999 in 12 ranges
Accuracy:	$\pm 1 \gamma$ through operating temperature range.
Sensitivity:	1 $\gamma$
Gradient Tolerance:	600 $\gamma$ /ft.
Power:	12 "D" cells
Power Consumption:	50 Joules (Wsec) per reading.
Polarizing Power:	0.8 A @ 13.5 V for 1.5 sec. (3 second cycle). 0.8 A @ 13.5 V for 3 sec. (6 second cycle).
Number of Readings with 1 Battery Set:	2,000 - 10,000 depending on type of batteries
Frequency of Readings:	1 every 3 seconds. 1 every 6 seconds.
Controls:	Pushbutton switch - Slide switch for 3 and 6 sec. located on P/C Board.
Output:	5 digit incandescent filament readout.
Indicators:	LED point. Lock Indicator - last three digits of the display blanked off when phaselock not achieved. Segment Function Indicator - all segments light up to permit visual inspection of the display function.



APPENDIX III

Geonics EM-16 Electromagnetometer

Principle of Operation  
Specifications

## EM-16 VLF-EM METER

### Principles or Operation

The VLF-transmitting stations operating for communications with submarines have a vertical antenna. The Antenna current is thus vertical, creating a concentric horizontal magnetic field around them. When these magnetic fields meet conductive bodies in the ground, there will be secondary fields radiating from these bodies. This equipment measures the vertical components of these secondary fields.

The EM-16 is simply a sensitive receiver covering the frequency band of the VLF-transmitting stations with means of measuring the vertical field components.

The receiver has two inputs, with two receiving coils built into the instrument. One coil has normally vertical axis and the other is horizontal.

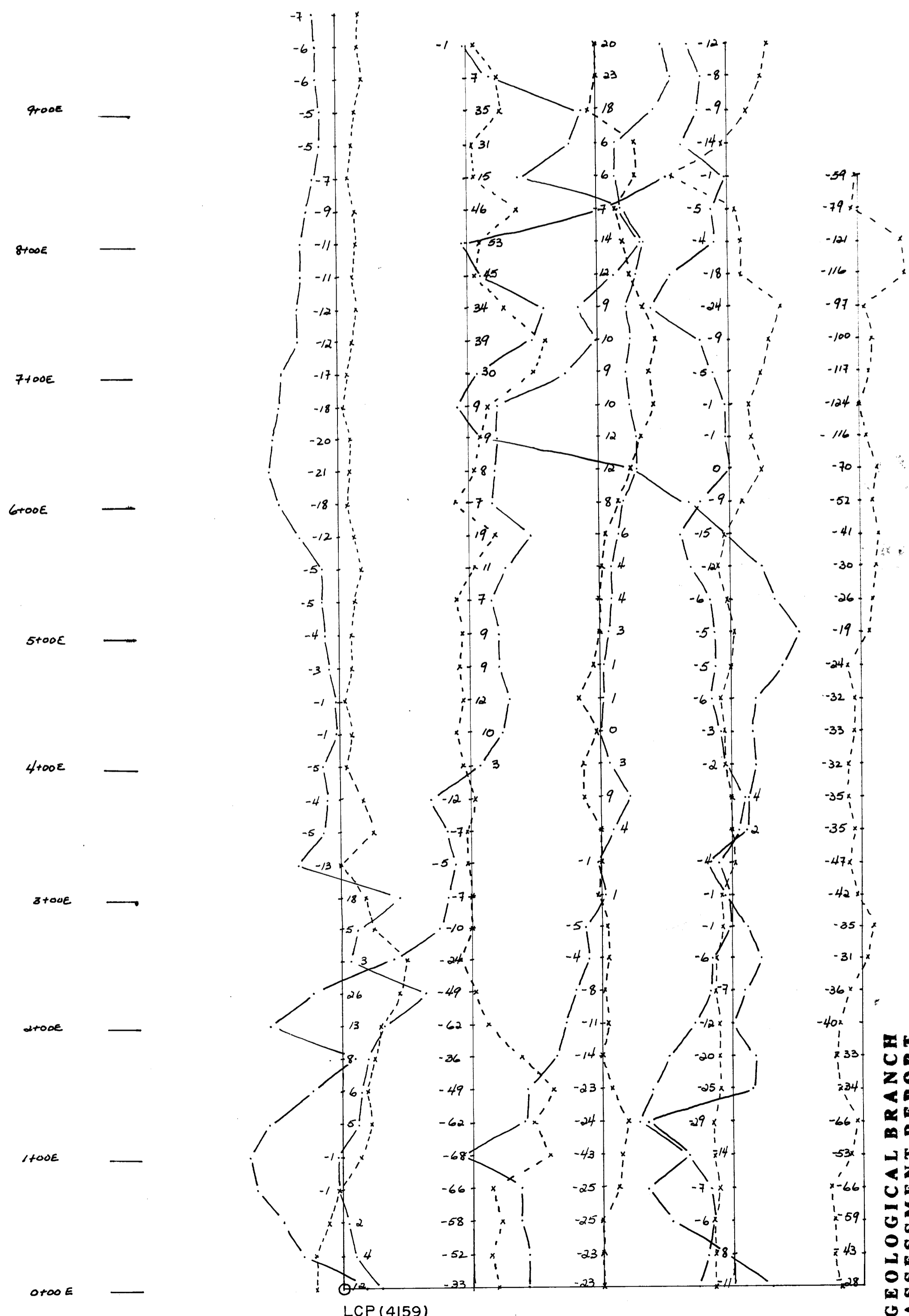
The signal from one of the coils (vertical axis) is first minimized by tilting the instrument. The tilt-angle is calibrated in percentage. The remaining signal in this coil is finally balanced out by a measured percentage of a signal from the other coil, after being shifted by  $90^\circ$ . This coil is normally parallel to the primary field.

Thus, if the secondary signals are small compared to the primary horizontal field, the mechanical tilt-angle is an accurate measure of the vertical real-component, and the compensation  $\pi/2$ -signal from the horizontal coil is a measure of the quadrature vertical signal.

## EM 16 SPECIFICATIONS

Measured Quantity	Inphase and quad-phase components of vertical magnetic field as a percentage of horizontal primary field (i.e., tangent of the tilt angle and ellipticity).
Sensitivity	Inphase: $\pm 150\%$ Quad-phase: $\pm 40\%$
Resolution	$\pm 1\%$
Output	Nulling by audio tone. Inphase indication from mechanical inclinometer and quad-phase from a graduated dial.
Operating Frequency	15 - 25 kHz VLF Radio Band. Station selection done by means of plug-in units.
Operator Controls	ON/OFF switch, battery test push button, station selector switch, audio volume control, quadrature dial, inclinometer.
Power Supply	6 disposable 'AA' cells.
Dimensions	42 x 14 x 9 cm.
Weight	Instrument: 1.6 kg Shipping: 5.5 kg.

LINE 05  
LINE 1005  
LINE 21005  
LINE 31005  
LINE 4005



**LEGEND**

INSTRUMENTATION	GEONICS EM-16
TRANSMITTER STATION	SEATTLE (NLK)
FREQUENCY	24.8 KHz
LINE INTERVAL	100 m
STATION INTERVAL	25 m
PROFILE SCALE	1cm = 10 %

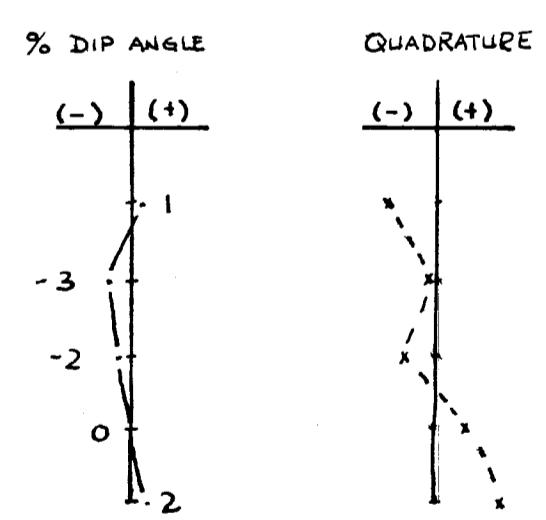


Figure 4

**WEST COLUMBIA ENERGIES INC.**

MERIT M CLAIM  
VLF-EM SURVEY  
DIP ANGLE PROFILE

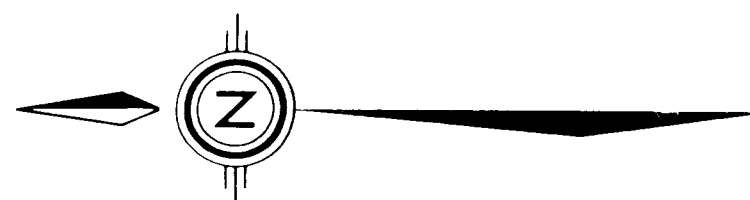
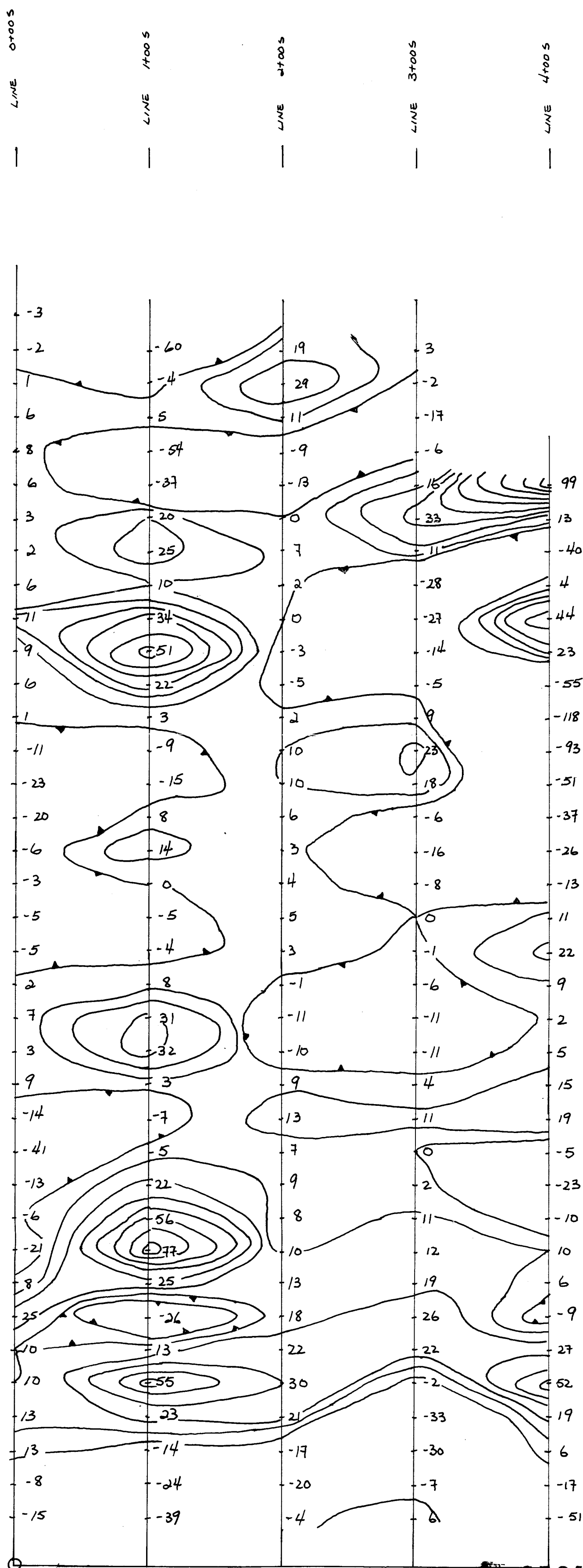
0 50m 100m 150m  
1 : 2500

Date	Oct. 1985	NTS	82 K / 3 E
BOA SERVICES LTD.			

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**14,343**

LCP (4159)



**LEGEND**

INSTRUMENTATION GEONICS EM-16  
 TRANSMITTER STATION SEATTLE (NLK)  
 FREQUENCY 24.8 KHz  
 LINE INTERVAL 100 m  
 STATION INTERVAL 25 m  
 CONTOUR INTERVAL 10 units

Figure 5

WEST COLUMBIA ENERGIES

MERIT M CLAIM  
 VLF EM SURVEY  
 FRASER PLOT



1:2500

Date Oct. 1985 NTS 82 K / 3 E

BOA SERVICES LTD.

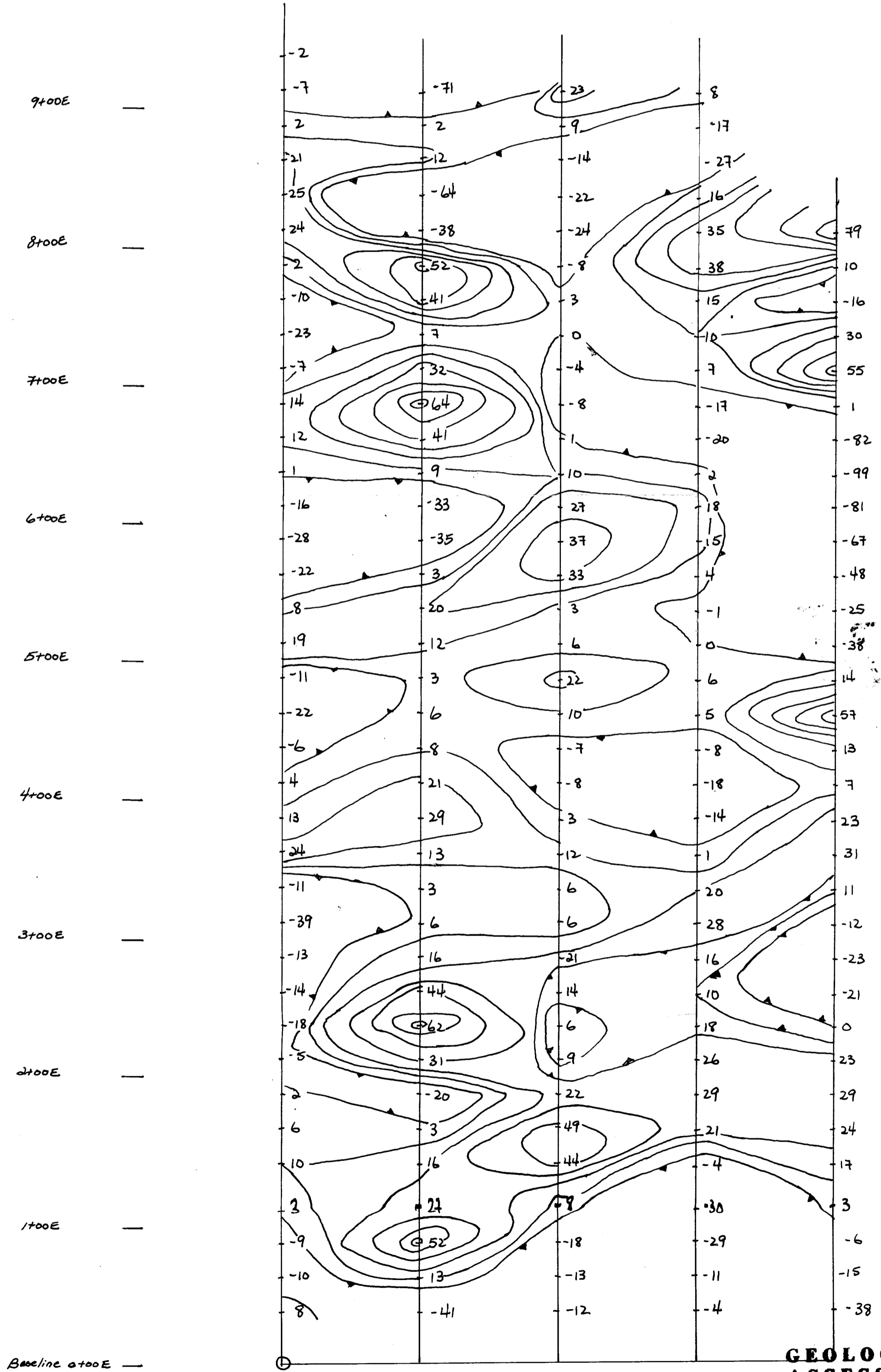
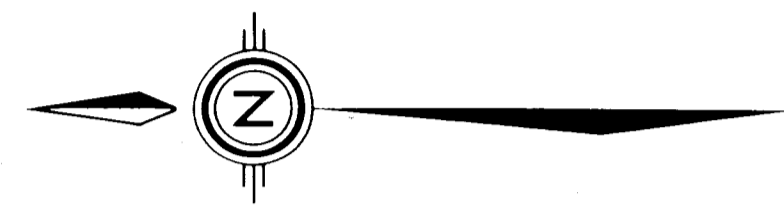
LCP (4159)

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**14,343**



LINE 0+00S  
LINE 1+00S  
LINE 2+00S  
LINE 3+00S  
LINE 4+00S



LEGEND

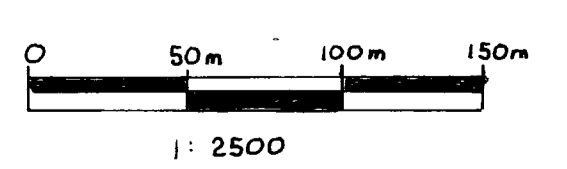
INSTRUMENTATION GEONICS EM-16  
 TRANSMITTER STATION CUTLER (NAA)  
 FREQUENCY 24.0 KHz  
 LINE INTERVAL 100 m  
 STATION INTERVAL 25 m  
 CONTOUR INTERVAL 10 units

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

Figure 7

WEST COLUMBIA ENERGIES

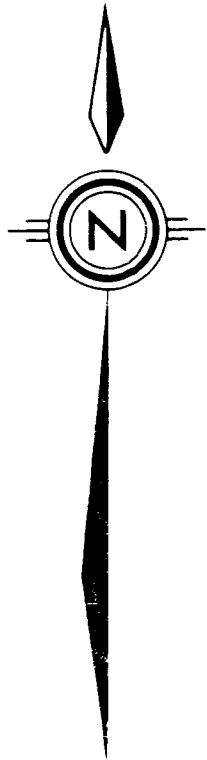
MERIT M CLAIM  
VLF EM SURVEY  
FRASER PLOT



LCP (4159)

14,343

Date Oct. 1985 NTS 82 K/3 E  
BOA SERVICES LTD.



Baseline cross —

1700E —

0700E —

3700E —

4700E —

5700E —

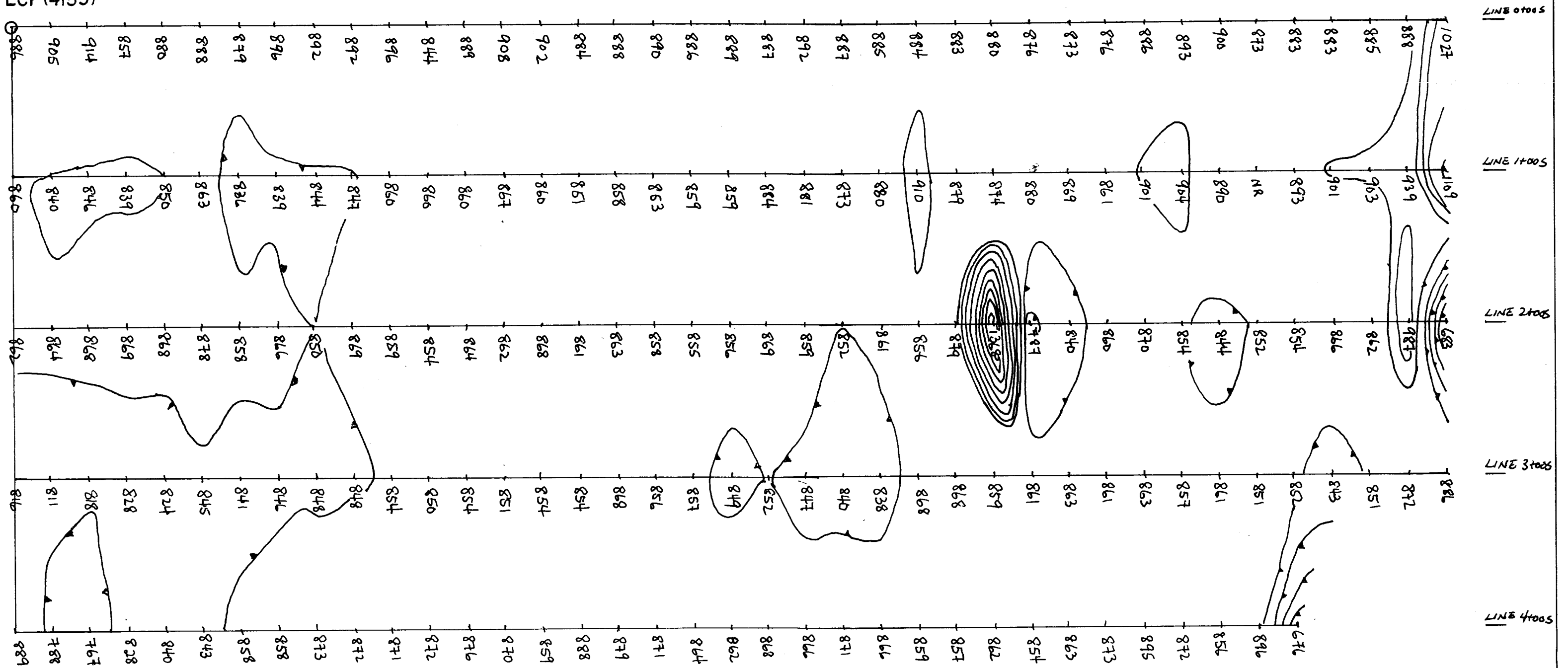
6700E —

7700E —

8700E —

9700E —

LCP (4159)



**LEGEND**

INSTRUMENTATION : BARRINGER GM- 122  
 LINE INTERVAL : 100 m  
 STATION INTERVAL : 25 m  
 CONTOUR INTERVAL : 50 γ  
 DATUM SUBTRACTED 57000 γ  
 PERSONNEL G. CAULFIELD

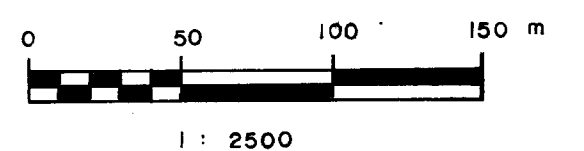
**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**14,343**

Figure 8

**WEST COLUMBIA ENERGIES INC.**

**MERIT M CLAIM  
 MAGNETOMETER SURVEY**



Date Oct. 1985 NTS 82 K / 3 E

BOA SERVICES LTD.