

84-1012-13063,

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**13,063**

**GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL 11/85  
REPORT ON THE LL #1-14  
MINERAL CLAIMS**

**QUESNEL LAKE AREA, BRITISH COLUMBIA  
CARIBOO MINING DIVISION  
NTS 93A/12  
LATITUDE 52° 37' N      LONGITUDE 121° 48' W**

**for**

**GRAND CANYON RESOURCES INC.**

**by**

**E & B EXPLORATIONS INC.  
1440-800 West Pender Street  
Vancouver, B.C.  
V6C 2V6**

**FIELD WORK PERIOD: June 26 to August 3, 1984**

**WRITTEN BY: R.G. Simpson, Project Geologist**

**DATE OF REPORT: October 15, 1984**

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SECTION A

SECTION A - SUMMARY OF WORK

INTRODUCTION

The Little Lake property, located at Morehead Lake in south central British Columbia, was staked for E & B Explorations Inc. in October 1982. The area has been worked extensively for placer gold since the late 1800's and has been subjected to porphyry copper exploration in the 1960's and 1970's. Several copper occurrences are present on the property and the geologic environment is considered favourable for the presence of bulk tonnage disseminated gold deposits. Three km to the north lies the QR deposit containing a reported 950,000 tonnes of material grading 6.8 g/t Au. The Cariboo-Bell copper-gold porphyry deposit lies 6 km to the southeast.

The Little lake claims were optioned by Grand Canyon Resources Inc. in 1983. An airborne magnetometer and VLF-EM survey flown the same year detected 34 VLF-EM anomalies.

CLAIM STATUS

The property consists of 14 mineral claims totalling 270 units. Claim details are summarized as follows:

CLAIM NO.	UNITS	RECORD NO.	RECORD DATE	EXPIRY DATE	WORK REQUIRED
LL 1	20	4560(11)	12/11/82	12/11/84	2,000.00
LL 2	20	4561(11)	12/11/82	12/11/84	2,000.00
LL 3	20	4562(11)	12/11/82	12/11/84	2,000.00
LL 4	20	4563(11)	12/11/82	12/11/84	2,000.00
LL 5	20	4564(11)	12/11/82	12/11/84	2,000.00
LL 6	20	4565(11)	12/11/82	12/11/84	2,000.00
LL 7	20	4566(11)	12/11/82	12/11/84	2,000.00
LL 8	20	4567(11)	12/11/82	12/11/84	2,000.00
LL 9	20	4568(11)	12/11/82	12/11/84	2,000.00
LL 10	20	4569(11)	12/11/82	12/11/84	2,000.00
LL 11	20	4570(11)	12/11/82	12/11/84	2,000.00
LL 12	10	4571(11)	12/11/82	12/11/84	1,000.00
LL 13	20	5759(1)	30/01/84	30/01/85	2,000.00
LL 14	20	5760(1)	30/01/84	30/01/85	2,000.00

14 claims 270

## LOCATION AND ACCESS

The property is located 58 km northeast of Williams Lake in south central British Columbia. Access is via the Likely road which leaves Highway 97 at 150 Mile House and passes through the Claim group at Morehead Lake. Logging roads provide good access to the southern claim blocks and several dirt roads leading to placer workings traverse the central and northern claims.

## TOPOGRAPHY AND PHYSICAL ENVIRONMENT

The LL claims cover an area of moderate topographic relief extending northwest from the east end of Morehead Lake to the Quesnel River and north to Jackpine Lake. Elevations range from 610 to 1140 metres.

The area is drained by three main creeks; Morehead, Little Lake and Jackpine, and all have been worked for placer gold in the past. The alluvial deposits of the Quesnel River have been worked for placer gold since the 1860's.

With the exception of the southern claim blocks, which have been partially logged, the area is heavily timbered with spruce, balsam, cedar and fir.

## HISTORY

Both Morehead and Little Lake creeks have been worked periodically for placer gold since the Cariboo Gold Rush days. The main source of the gold seems to be in older E-W trending channels.

Following the discovery of the Cariboo-Bell deposit in 1964 the area was extensively explored for similar porphyry-copper type mineralization.

In 1966 and 1967, Milestone Mines Ltd. conducted exploration work on claims located southwest of Morehead Lake including geochemical sampling, EM IP surveys, 20,000 feet of bulldozer stripping and 2 BX diamond drill holes. Low grade disseminated chalcopyrite and native copper was found in basic volcanic flows and monzonitic intrusive rocks.

In 1967, Silver City Petroleums Ltd. conducted a soil geochemical survey over the Sue claims, formerly located northeast of Jackpine Lake. No significant copper anomalies were located and the claims lapsed. North of Jackpine Lake a series of unrecorded trenches cut across a massive limestone lens containing minor copper mineralization.

Lecmac Mines Ltd. completed one diamond drill hole on the Mary Bell claims in 1973. The location is uncertain but thought to be on Morehead Creek.

In 1975 Dome Exploration and Newconex conducted geologic mapping and trenching on the ML claims located directly southwest of Morehead Lake where copper mineralization occurs in carbonate lenses and sandstone.

In 1976 and 1977 Quintana performed work on the Train property formerly located between Morehead Lake and Little Lake. Six percussion drill holes were completed along the Likely road but only four intersected bedrock. Three of these were in sediments but the westernmost hole intersected porphyritic volcanics.

In 1981, following the release of government stream sediment survey data, three claim groups were staked in the area now occupied by the LL claims but no work was recorded and the ground became open in 1982.

## GEOLOGY

The property is underlain by Upper Triassic to Lower Jurassic volcanic and sedimentary rocks intruded by comagmatic alkalic stocks and dyke complexes. Structurally, the rocks form a homoclinal sequence striking northwest and dipping moderately northeast.

Massive maroon basaltic breccia (unit 1) underlies the southwest corner of the claim group and is intruded by a small syenite stock on Morehead Hill east of the Likely road. Near the top of this unit lies a sedimentary sequence consisting of felsic to intermediate feldspathic sandstone, grit and conglomerate (unit 1a). Lenses of massive limestone (unit 1b) are exposed within this sequence south of Morehead Lake and north of Jackpine Lake.

Lying stratigraphically above unit 1 are poly lithologic laharic breccias (unit 2) consisting primarily of maroon basalt fragments with varying amounts of felsic and intermediate volcanic fragments. A body of monzonite porphyry intrudes this unit and is exposed along Morehead Creek at the old Prior placer workings.

The northeast corner of the claim group is underlain by green and grey basaltic breccia of unit 3. This rock type is also exposed along Jackpine creek.

Weak copper mineralization is widespread in the region and several occurrences on the LL claims are summarized below.

1. Sediment/carbonate hosted.

Bornite and copper oxides occur as veinlets and fracture coatings in a limestone lenses west of Morehead Lake and north of Jackpine Lake. Disseminated tetrahedrite and covellite occur in feldspathic sandstone west of Morehead Lake.

2. Volcanic hosted.

Native copper and bornite occur as amygdules and along shear zones within basaltic flows and breccias on Morehead Hill.

3. Porphyry type.

Minor chalcopyrite occurs as disseminations and fracture fillings within feldspar porphyry stocks and dykes.

The current exploration target is a bulk tonnage disseminated gold deposit. The QR property, which adjoins the LL claims to the north, hosts such a deposit containing a reported 950,000 tonnes of material grading 6.8 g/t Au. The gold mineralization occurs with sulphides in volcanic rocks adjacent to a monzonite porphyry stock.

A total of 33 rock samples were collected during the course of soil sampling and geologic mapping. The samples were geochemically analyzed for gold and copper at Min-en Laboratories in Vancouver using the standard atomic absorption method.

Copper content was highly erratic, commonly varying from 10 to 100 ppm with a mean value of 54 ppm. One sample with visible copper mineralization ran 2413 ppm copper.

Gold content was low, averaging 5 ppb with a maximum value of 25 ppb correlating with the anomalous copper sample.

A sample taken from a quartz-carbonate-jasperoid vein on Morehead Hill contained only background values of copper, lead, zinc, silver, gold and tungsten.

Silver content was determined for 14 of the samples and averaged 0.7 ppm with a maximum value of 1 ppm.

Geology and rock geochemical results are plotted on map LL-84-4.

#### SOIL GEOCHEMICAL SURVEY

A soil geochemical survey program was carried out over the LL claim group between June 26 and August 3, 1984. A total of 900 soil samples were obtained and geochemically analyzed for gold and copper at Vangeochem Laboratories in Vancouver.

Soil sampling was carried out over 7 separate grids throughout the property labelled from A to G. The areas sampled were selected on the basis of airborne VLF-EM results and outcrop exposure. Areas known to be covered by thick accumulations of glacial till or alluvial deposits were generally avoided.



The grids consisted of a north-south oriented baseline and east-west sample lines spaced from 100 to 400 meters apart. Soil samples were collected from the "B" horizon at a depth of 10 to 30 cm and placed in gusseted envelopes. Samples were collected at 50 meter intervals with the exception of area G where 100 meter intervals were necessary due to the length of the lines.

Soil samples for geochemical analysis were dried and sieved to minus 100 mesh. A 5 to 10 gram sample was then digested with Aqua Regia and analyzed for gold by atomic absorption spectroscopy. Copper determinations were also carried out by the atomic absorption method.

A soil geochemical summary by area is detailed below.

GRID DESIGNATION	LINE-KM SAMPLED	NO. OF SAMPLES	STATISTICAL ANALYSIS - Au			
			MEAN ppb Au	ANOMALOUS THRESHOLD ppb Au	NO OF SAMPLES $\geq$ THRESHOLD	MAX VALUE ppb Au.
A	13	253	5	20	5	80
B	5.1	90	5	20	5	50
C	2.4	48	5	20	1	20
D	2.5	40	5	20	0	15
E	3	57	5	20	3	20
F	6	121	5	20	6	40
G	27.5	291	15	30	11	60
TOTAL	59.5	900			31	80

\*Anomalous threshold = mean + 2 (standard deviation)

The highest background gold content (15 ppb) and the greatest number of samples above threshold (weakly anomalous) were collected from area G. However, no continuity is evident within the current grid framework and the higher values are attributed to erratic background gold content rather than mineralized zones.

## GROUND GEOPHYSICS

A program of ground geophysics was carried out in conjunction with the geochemical survey using the same grid system. Interpretex Resources Ltd. was contracted to conduct VLF and magnetometer surveys in an effort to delineate airborne VLF-EM anomalies and determine their validity.

A total of 27.3 line km of VLF and magnetometer surveying was completed over six grids labelled from A to F. Moderate to strong conductors were detected in areas D, E and F. Some of the anomalies defined on the ground in area "A" were tested using a Crone C.E.M. electromagnetic system. Results from the survey indicate that airborne VLF anomalies with magnitude at least 10% above relative field strength can be detected by ground geophysical methods.

A more detailed report by E.R. Rockel is appended at the end of section A and geophysical data is plotted on maps LL-84-5, 6 and 7.

## SUMMARY AND RECOMMENDATIONS

The Little Lake claims are underlain by an assemblage of basic volcanic and related sedimentary rock belonging to the Quesnel River Group of Upper Triassic to Lower Jurassic age. The rocks are intruded by small comagmatic alkalic stocks and dyke complexes. Lenses of massive limestone are associated with the sedimentary sequence.

Minor copper showings are present on Morehead Hill, along Morehead Creek and north of Jackpine Lake.

The aim of the current exploration program is to search for bulk disseminated gold mineralization within the volcanic sequence. Rocks of similar age and composition are known to host such deposits north of the Quesnel River (e.g. Q.R. and Maude Lake).

A total of 900 soil samples were collected over seven separate grids throughout the claim group. No significant gold anomalies were detected.

A ground geophysical survey was able to detect previously obtained airborne VLF-EM anomalies with magnitude at least 10% above relative field strength. VLF conductors of moderate strength were detected under several of the grid areas surveyed but due to lack of coincident geochemical response they are not considered viable drill targets.

Further soil geochemical sampling is recommended over the untested LL-2 and LL-3 claim blocks in order to complete this first phase of exploration. Estimated cost of the program is \$12,000.



Respectfully submitted,

A handwritten signature in black ink, appearing to read "R. G. Simpson".

R. G. Simpson

APPENDIX

GEOPHYSICAL SURVEY REPORT

by

E.R. Rockel  
Interpretex Resources Ltd.

FIELD REPORT  
ON  
GEOPHYSICAL SURVEYS  
WITHIN THE  
LITTLE LAKE PROJECT AREA  
CARIBOU MINING DIVISION  
NEAR LIKELY, B.C.

FOR  
E. & B. EXPLORATIONS INC.

BY  
INTERPRETEX RESOURCES LTD.

Vancouver, B.C.  
Aug. 30, 1984

Project #84508  
E.R. Rockel

1. SUMMARY

Airborne VLF EM anomalies in Area A, which were delineated on the ground, are believed to be caused by conductive structure. One very weak conductor may contain pyrrhotite.

VLF EM results from areas B, C, E and F suggest mainly structural conductivity and/or conductive overburden as the cause of the airborne anomaly.

Area D may contain sulphides with magnetite and possibly pyrrhotite within structural traps formed by intersecting north-south and north-easterly trending structures.

Follow-up priorities may be modified depending on geological and geochemical information. Detail vertical loop surveys possibly leading to drilling are warranted in areas D, F and E in order of priority. No further work is recommended in other areas.

2. INTRODUCTION

This report pertains to electromagnetic and magnetic surveys carried out between June 28 and July 13, 1984 on airborne VLF electromagnetic anomalies in various regions of the Little Lake project area. Anomaly locations, as shown by J.T. Walker of Walker Mining Geophysics on "Airborne VLF EM Anomaly Map", were followed up on the ground using VLF electromagnetic, Crone C.E.M. electromagnetic and magnetic methods.

The project area is near Likely, B.C., in the Caribou mining district, as shown on Figure #1. Access to all anomaly areas was by four wheel drive truck on forestry or provincial roads.

3. OBJECTIVES

The objectives of the surveys were as follows:

- to determine the location of airborne VLF EM anomalies on the ground"
- to obtain ground geophysical data over the anomalies in order to assess their significance.

4. METHOD

A Geonics EM-16 VLF EM receiver and Exploranium G-816 total field magnetometer were used for the "airborne anomaly location" surveys.

In-Phase and Out-of-Phase VLF EM readings (in percent) were taken using

the Seattle-Washington, Cutler-Maine and Annapolis-Maryland VLF transmitting stations.

Variations of the earth's magnetic field were controlled using an Exploranium G-856 total field digital memory magnetometer in base station mode recording at 30 second intervals. Each field magnetic reading was individually corrected using a base station reading recorded at the same time. All magnetic readings were taken using a staff modified for mountain use.

Airborne follow-up was carried out by establishing a grid across the anomalous area, as indicated by the Airborne VLF EM Anomaly Map, with lines spaced at 100 or 200 meter intervals and geophysical stations at 25 meter intervals along lines. VLF EM and magnetic readings were taken along the lines in order to locate airborne VLF anomalies.

A few of the VLF EM anomalies defined on the ground in "Area A" were tested using a Crone C.E.M. electromagnetic system in the shoot-back and vertical loop modes. Atmospheric noise and time constraints prevented testing of VLF EM conductors with the C.E.M. in other areas.

All data were profiled and presented on plan map Figures LL-84-5a, 5b & 5c.

## 5. DISCUSSION AND CONCLUSIONS

### 5.1 Area A

The first airborne anomaly followed up was designated "A". Two long and two short reconnaissance lines were surveyed using the VLF EM and magnetic methods. Of the various VLF anomalies obtained, four were followed up using the Crone C.E.M. system. The shootback method was used first. However, this method was abandoned due to curves apparently complicated by conductive overburden. The vertical loop EM method was then used to follow up all four previously mentioned VLF targets.

The first two targets were seen on line 1600 N at approximately 5375 E and 5050 E, with the anomaly at 5050 E believed to reflect the airborne EM anomaly. Vertical loop data indicate that the conductor at approximately 5375 E is very weak, of low conductivity and may represent a shallow structural feature. Correlation with a magnetic high may signify the presence of pyrrhotite within the fracture. The conductor at approximately 5050 E on line 1600 N is slightly stronger but still with low conductance and again is believed to be a structural conductor. A slight magnetic high nearby to the west is not believed to be related to conductivity.

VLF EM anomalies at approximately 2300 N and 350 N on Base Line A (5000 E) were tested by surveying an "Inco Square" around the anomaly using the vertical loop mode (see Figure #2). Negative vertical loop results indicate that these two VLF EM anomalies are of short strike length, having low conductivity and are probably due to conductive overburden.

#### 5.2 Area B

Area B follow-up involved a search for three different airborne EM anomalies, two narrow and one wide. Reconnaissance lines were placed to cover the area indicated by the airborne anomaly map, however, only one of the narrow anomalies is believed to have been found on the ground. The weak short wavelength VLF EM anomalies are believed to reflect conductive overburden. The possibility must be considered that the airborne anomalies not found may have been caused by turbulence or equipment noise. Magnetism does not appear to be related to conductivity.

#### 5.3 Area C

Reconnaissance survey on airborne anomaly "C" produced only one weak VLF EM conductor system. Magnetic readings showed no significant magnetic expression. The VLF EM conductor is believed to be caused by conductive overburden.

#### 5.4 Area D

Area D is the most active of all areas. Various moderate and strong VLF EM conductors trend roughly north-south with one strong system trending northeasterly. High magnetic activity in the region of VLF EM anomalies suggests that much of the conductivity is related to bedrock conductivity such as sulphides with magnetite and possibly pyrrhotite. It is possible that the VLF EM and magnetic results reflect a mineralized area of intersection of two structural directions producing structural traps. An attempt to more accurately define various systems and to determine relative conductivity had to be discontinued due to excessive atmospheric noise. Time constraints prevented additional detail survey attempts.

#### 5.5 Area E

Survey of Area E produced two moderate strength conductors. An anomaly on line 4500 N near the cliff down to Morehead Creek, even though affected by topography, is believed to represent a short, probably water filled, fault. Moderate to weak anomalies in the vicinity of 6400 E may also be structural conductors.



### 5.6 Area F

Although Area F reconnaissance coverage did not completely delineate the conductors found, it was sufficient to locate the airborne anomaly on the ground. Most conductive trends are north-northeast and are believed to be structural. All conductors seem to diminish in strength to the north and south suggesting possible dilation within the structure or possibly mineralization in the areas of stronger VLF EM response. Magnetic lows may reflect oxidation of magnetic minerals within structure in the vicinity of 7675 E and 7650 W on lines 3800 N and 3900 N respectively.

## 6. RECOMMENDATIONS

Follow-up priorities should be based on geophysical, geological and geochemical knowledge. Geophysical priorities for follow-up stated here are based only on geophysical attributes and may be modified depending on geological and geochemical information.

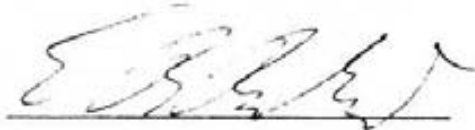
Follow-up should take the form of inexpensive vertical loop detail surveys over VLF EM conductors to determine dip, depth extent and conductance. Drilling, if warranted, should then be carried out on the vertical loop conductor locations.

No further geophysical work is recommended in Area A.

In order of priority the following areas have geophysical attributes which warrant geophysical follow-up. They are Area D, Area F and Area E.

VLF EM conductors in Areas B and C would probably not produce a response when using the Crone C.E.M. system due to weakness and low conductance. Therefore, no additional geophysical work is recommended in these areas.

RESPECTFULLY SUBMITTED

A handwritten signature in dark ink, appearing to read 'E.R. Rockel', is written over a horizontal line.

E.R. ROCKEL

INTERPRETEX RESOURCES LTD.

**SECTION B**

SECTION B - STATEMENT OF COSTS

ACCOMMODATION:	\$1,560.62
ANALYTICAL:	7,369.65
DRAFTING & REPORT PREPARATION:	861.06
EQUIPMENT RENTAL:	1,236.92
4 Wheel vehicle	
FIELD SUPPLIES:	693.51
GROUND GEOPHYSICS:	7,506.87
SALARIES:	
R. Simpson, geologist: 31 days @ \$250/day = \$7,750	
R. Williams, sampler-linecutter: 13 days @ \$100/day = \$1,300	
B. Bachofer, sampler-linecutter: 4 days @ \$100/day = \$400.00	
D. Hutton, assistant: 18 days @ \$75/day = \$1,350	
D. Lindstrom, assistant: 18 days @ \$75/day = \$1,350	\$12,150.00
SHIPPING:	213.25
TRAVEL:	898.54
TOTAL	<u>\$32,490.42</u>

**B.2 COST DISTRIBUTION BY MINERAL CLAIM**

CLAIM	GEOCHEMICAL	GEOPHYSICAL	GEOLOGY	DRAFTING	TOTAL
LL-1	\$ 487.75	\$ 86.55	\$ 444.13	\$ 27.72	\$ 1,046.15
LL-2	81.29	-	444.13	14.30	539.72
LL-3	-	-	-	-	-
LL-4	1,381.96	1,904.05	444.13	101.55	3,831.69
LL-5	2,926.50	4,092.51	888.26	215.26	8,122.53
LL-6	487.75		1,332.35	49.55	1,869.65
LL-7	1,951.00		444.13	65.20	2,460.33
LL-8	2,113.58	649.11	444.13	87.30	3,294.12
LL-9	3,007.79			81.89	3,089.68
LL-10	1,869.70	1,125.12		81.53	3,076.35
LL-11					
LL-12					
LL-13	1,300.66	2,077.15		91.96	3,469.77
LL-14	650.33	995.30		44.80	1,690.43
TOTAL	\$16,258.31	\$10,929.79	\$4,441.26	\$ 861.06	\$ 32,490.42

SECTION C

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS  
RONALD G. SIMPSON

---

1. Attended the University of British Columbia and graduated in May 1975 with an honours B.Sc. degree in Geology.
2. Is a fellow of the Geological Association of Canada.
3. Has carried out his profession continuously since 1975 and has been employed as a project geologist with E & B Explorations Inc. since March 1981.



Respectfully submitted,

A handwritten signature in dark ink, appearing to read "R. G. Simpson".

R.G. Simpson  
Project Geologist

/cp

SECTION D

LABORATORY REPORTS



Little Lake  
~~Little Lake~~

**VANGEOCHEM LAB LIMITED**

-----  
1521 Pemberton Ave.  
North Vancouver B.C. V7P 2S3  
(604)986-5211 Telex: 04-352578

**GEOCHEMICAL ANALYTICAL REPORT**

CLIENT: E & B EXPLORATION INC.  
ADDRESS: #1440, 800 West Pender Street  
: Vancouver B.C.  
: V6C 2V6

DATE: July 12 1984

REPORT#: 84-39-025

PROJECT#: 5145  
COPY SENT TO: E & B EXPLORATION INC.  
SAMPLES ARRIVED: July 5 1984  
REPORT COMPLETED: July 12 1984  
ANALYSED FOR: Cu Au Ag

JOB#: 84208  
INVOICE#: 7963  
TOTAL SAMPLES: 1  
SAMPLE TYPE: 1 Rock  
REJECTS: SAVED

\$ 14.25

PREPARED FOR: E & B EXPLORATION INC.



ANALYSED BY: VGC Staff

SIGNED: \_\_\_\_\_

GENERAL REMARK: Au done by FA/AAS

VANGECHEM LAB LIMITED  
1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 986-5211 Telex: 04-352576

PREPARED FOR: E & B EXPLORATION INC.  
NOTES: nc = none detected  
: - = not analysed  
: is = insufficient sample

REPORT NUMBER: 84-39-025

JOB NUMBER: 84208

PAGE 1 OF 1

SAMPLE #	Cu ppm	Au ppb	As ppm
1800N 5550E	51	nd	2
DETECTION LIMIT	:	5	2

**VANGEOCHEM LAB LIMITED**

-----  
1521 Pemberton Ave.  
North Vancouver B.C. V7P 2S3  
(604)986-5211 Telex: 04-352578

**GEOCHEMICAL ANALYTICAL REPORT**

CLIENT: E & B EXPLORATION INC.  
ADDRESS: #1440, 600 West Pender Street  
: Vancouver B.C.  
: V6C 2V6

DATE: July 17 1984

REPORT#: 84-39-029

PROJECT#: 5145  
COPY SENT TO: E & B EXPLORATION INC.  
SAMPLES ARRIVED: July 5 1984  
REPORT COMPLETED: July 17 1984  
ANALYSED FOR: Cu Au As

JOB#: 84207  
INVOICE#: 8001  
TOTAL SAMPLES: 225  
SAMPLE TYPE: 225 Soil  
REJECTS: DISCARDED

PREPARED FOR: E & B EXPLORATION INC.

ANALYSED BY: VGC Staff

SIGNED: 

GENERAL REMARK: None

**WASSERMAN LAB LIMITED**  
 1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.

NOTES: nd = none detected  
 : - = not analysed  
 : is = insufficient sample

REPORT NUMBER: 04-39-029

JOB NUMBER: 04207

PAGE 1 OF 6

SAMPLE #	Cu ppm	Au ppb	As ppm
2+00N 5000E	14	5	nd
3+00N 5000E	25	nd	nd
4+00N 5000E	19	nd	nd
5+00N 5000E	31	10	2
6+00N 5000E	23	nd	2
7+00N 5000E	19	10	2
8+00N 5000E	20	nd	2
9+00N 5000E	20	nd	2
10+00N 5000E	76	15	nd
11+00N 5000E	21	nd	2
12+00N 5000E	166	5	10
13+00N 5000E	29	nd	2
14+00N 5000E	32	5	4
15+00N 5000E	20	10	2
16+00N 5000E	59	5	2
17+00N 5000E	29	5	4
100N 5000E	24	5	4
200N 4000E	88	5	2
200N 4050E	26	nd	2
200N 4100E	129	nd	4
200N 4150E	12	nd	2
200N 4200E	145	5	10
200N 4250E	36	nd	4
200N 4300E	53	5	4
200N 4350E	19	5	2
200N 4400E	40	nd	4
200N 4450E	99	5	10
200N 4500E	86	5	15
200N 4550E	21	nd	2
200N 4600E	49	nd	4
200N 4650E	15	nd	2
200N 4700E	12	5	2
200N 4750E	34	10	4
200N 4800E	30	nd	4
200N 4850E	22	nd	2
200N 4900E	24	nd	nd
200N 4950E	26	5	2
400N 4000E	23	nd	2
400N 4050E	11	5	nd
DETECTION LIMIT	1	5	2

**WILSON LAB LIMITED**  
 1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.  
 NOTES: nd = none detected  
 : — = not analysed  
 : is = insufficient sample

REPORT NUMBER: 04-39-029 JOB NUMBER: 04207

PAGE 2 OF 6

SAMPLE #	Cu ppm	Au ppb	As ppm
400N 4100E	40	nd	nd
400N 4150E	74	nd	15
400N 4200E	68	nd	2
400N 4250E	19	5	nd
400N 4300E	26	nd	2
400N 4350E	29	80	2
400N 4400E	17	5	nd
400N 4450E	49	nd	15
400N 4500E	25	10	2
400N 4550E	17	5	2
400N 4600E	31	nd	2
400N 4650E	29	nd	2
400N 4700E	28	10	nd
400N 4750E	47	nd	2
400N 4800E	132	5	2
400N 4850E	18	nd	2
400N 4900E	29	nd	nd
400N 4950E	24	nd	2
1550N 5000E	20	nd	2
1600N 5000E	40	nd	2
1600N 5050E	31	nd	4
1600N 5100E	18	nd	2
1600N 5150E	85	10	nd
1600N 5200E	40	nd	2
1600N 5250E	19	5	2
1600N 5300E	31	nd	4
1600N 5350E	42	nd	4
1600N 5400E	30	5	4
1600N 5450E	21	nd	2
1600N 5500E	30	5	4
1600N 5550E	24	5	4
1600N 5600E	36	5	2
1600N 5650E	29	5	4
1600N 5700E	19	nd	4
1600N 5750E	20	5	2
1600N 5800E	40	nd	2
1600N 5850E	46	nd	4
1600N 5900E	19	10	4
1600N 5950E	30	nd	4
DETECTION LIMIT	1	5	2

**WILSON LAB LIMITED**  
 1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.

NOTES: nd = none detected  
 : - = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-39-029

JOB NUMBER: 84297

PAGE 3 OF 6

SAMPLE #	Cu ppm	Au ppb	Ag ppm
1600N 600E	25	nd	2
1600N 605E	25	5	2
1600N 610E	29	10	4
1600N 615E	34	nd	4
1600N 620E	21	nd	2
1650N 500E	26	nd	2
1750N 500E	12	10	2
1800N 500E	38	5	2
1800N 505E	19	nd	4
1800N 510E	34	5	4
1800N 515E	15	nd	4
1800N 520E	28	nd	4
1800N 525E	56	5	4
1800N 530E	38	nd	4
1800N 535E	39	5	4
1800N 540E	39	nd	4
1800N 545E	32	5	4
1800N 550E	19	nd	2
1800N 555E	33	5	2
1800N 560E	28	5	4
1800N 565E	37	10	4
1800N 570E	28	5	4
1800N 575E	43	10	4
1800N 580E	69	5	4
1800N 585E	40	nd	4
1800N 590E	57	5	4
1800N 595E	11	nd	2
1800N 600E	8	nd	2
1800N 605E	26	5	4
1800N 615E	22	nd	4
1800N 620E	61	nd	4
1850N 500E	22	nd	2
1900N 500E	35	nd	4
1950N 500E	14	5	2
2000N 500E	26	nd	4
2000N 505E	77	nd	4
2000N 510E	20	nd	2
2000N 515E	30	nd	2
2000N 520E	26	5	4
DETECTION LIMIT	1	5	2

**LABORATORY LTD**

1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 966-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.

NOTES: nd = none detected  
 : — = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-39-029

JOB NUMBER: 84207

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SAMPLE #	Cu ppm	Au ppb	As ppm
2000N 5250E	43	nd	4
2000N 5300E	42	nd	4
2000N 5350E	35	5	2
2000N 5400E	16	5	4
2000N 5450E	15	nd	4
2000N 5500E	35	nd	2
2000N 5550E	39	nd	4
2000N 5650E	29	nd	4
2000N 5700E	25	nd	2
2000N 5750E	18	5	2
2000N 5800E	34	5	4
2000N 5850E	22	5	4
2000N 5900E	24	5	2
2000N 5950E	25	10	2
2000N 6000E	41	5	4
2000N 6050E	29	nd	2
2000N 6100E	18	nd	2
2000N 6150E	34	10	4
2000N 6200E	26	5	2
2000N 6250E	25	5	4
2000N 6300E	46	nd	10
2000N 6350E	14	10	2
2000N 6400E	14	nd	2
2000N 6450E	16	5	4
2000N 6500E	32	5	2
2000N 6550E	29	5	4
2000N 6600E	23	nd	2
2000N 6650E	21	15	4
2100N 5000E	25	5	4
2200N 5000E	27	nd	4
2200N 5000E	20	nd	2
2200N 5050E	34	5	2
2200N 5100E	25	nd	2
2200N 5150E	29	nd	2
2200N 5200E	26	nd	2
2200N 5250E	21	5	2
2200N 5350E	18	5	4
2200N 5400E	42	5	4
2200N 5500E	40	10	4
DETECTION LIMIT	1	5	2

*Duplicate*

**LABORATORY**

1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.

NOTES: nd = none detected  
 : — = not analysed  
 : is = insufficient sample

REPORT NUMBER: 04-39-029

JOB NUMBER: 04207

PAGE 5 OF 6

SAMPLE #	Cu ppm	Au ppb	As ppm
2200N 5550E	5	5	2
2200N 5600E	27	nd	4
2200N 5650E	24	nd	4
2200N 5700E	15	10	4
2200N 5750E	15	20	4
2200N 5800E	18	5	4
2200N 5900E	16	20	4
2200N 5950E	17	15	2
2200N 6000E	12	15	4
2200N 6050E	17	5	4
2200N 6100E	64	10	10
2200N 6150E	19	10	2
2200N 6200E	64	10	4
2200N 6250E	23	5	4
2200N 6300E	25	10	10
2200N 6700E	21	nd	4
2250N 5000E	69	5	2
2300N 5000E	31	10	2
2350N 5000E	26	10	2
2400N 5000E	23	5	2
2400N 5050E	23	5	2
2400N 5150E	76	5	4
2400N 5200E	24	10	4
2400N 5250E	15	nd	4
2400N 5300E	26	5	4
2400N 5450E	29	5	4
2400N 5550E	19	5	2
2400N 5600E	29	10	4
2400N 5700E	17	10	4
2400N 5750E	24	10	4
2400N 5800E	26	10	2
2400N 5850E	19	15	4
2400N 5900E	16	10	4
2400N 6000E	37	10	4
2450N 5000E	48	10	4
2500N 5000E	21	5	4
2550N 5000E	66	5	4
2600N 5000E	38	25	4
2600N 5050E	20	15	2
DETECTION LIMIT	1	5	2



**WATERSON LAB LIMITED**  
1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.

NOTES: nd = none detected  
: - = not analysed  
: is = insufficient sample

REPORT NUMBER: 04-39-029

JOB NUMBER: 04207

PAGE 6 OF 6

SAMPLE #	Cu ppm	Au ppb	Ag ppm
2600N 5100E	29	5	4
2600N 5150E	45	5	4
2600N 5200E	11	nd	2
2600N 5250E	26	10	4
2600N 5350E	41	10	4
2600N 5450E	26	5	4
2600N 5500E	13	5	4
2600N 5550E	26	10	2
2600N 5600E	18	10	2
2600N 5650E	16	nd	4
2600N 5700E	29	nd	4
2600N 5750E	22	5	4
2600N 5800E	16	20	2
2600N 5900E	54	10	4
2600N 5950E	29	10	10
2600N 6000E	15	5	2
2650N 5000E	23	5	4
2700N 5000E	34	nd	4
2750N 5000E	11	5	2
2800N 5000E	37	nd	2
2850N 5000E	75	10	4
2900N 5000E	8	nd	2
2900N 5650E	14	nd	4
2950N 5000E	18	10	4
3000N 5000E	16	5	2
3050N 5000E	25	5	4
3100N 5000E	14	15	4
3150N 5000E	16	5	4
3200N 5000E	18	nd	2
3250N 5000E	32	nd	4
DETECTION LIMIT	1	5	2

**VANGEOCHEM LAB LIMITED**

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1521 Pemberton Ave.  
North Vancouver B.C. V7P 2S3  
(604)986-5211 Telex: 04-352578

**GEOCHEMICAL ANALYTICAL REPORT**

=====

CLIENT: E & B EXPLORATION INC.  
ADDRESS: #1440, 800 West Pender Street  
: Vancouver B.C.  
: V6C 2V6

DATE: July 20 1984

REPORT#: 84-39-030

PROJECT#: 5145  
COPY SENT TO: E & B EXPLORATION INC.  
SAMPLES ARRIVED: July 16 1984  
REPORT COMPLETED: July 20 1984  
ANALYSED FOR: Cu Au

JOB#: 84251  
INVOICE#: 8027  
TOTAL SAMPLES: 57  
SAMPLE TYPE: 57 soil  
REJECTS: DISCARDED

PREPARED FOR: E & B EXPLORATION INC.

ANALYSED BY: VGC Staff

SIGNED: \_\_\_\_\_



GENERAL REMARK: None

WAMBOLDEN LAB LIMITED  
1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.  
NOTES: nd = none detected  
: - = not analysed  
: is = insufficient sample

REPORT NUMBER: 84-39-030

JOB NUMBER: 84251

PAGE 1 OF 2

SAMPLE #	Cu ppm	Au ppb
4400N 5850E	32	10
4400N 5900E	19	15
4400N 5950E	29	nd
4400N 6000E	24	10
4400N 6050E	35	nd
4400N 6100E	55	10
4400N 6150E	16	5
4400N 6250E	19	5
4400N 6300E	25	10
4400N 6350E	9	nd
4400N 6400E	19	nd
4400N 6450E	14	10
4400N 6500E	31	10
4400N 6550E	26	10
4400N 6600E	15	nd
4400N 6650E	11	10
4400N 6700E	15	15
4500N 6800E	31	nd
4500N 6850E	20	10
4500N 6100E	29	10
4500N 6150E	21	20
4500N 6250E	34	nd
4500N 6300E	30	nd
4500N 6350E	18	5
4500N 6400E	14	10
4500N 6450E	29	15
4500N 6500E	28	nd
4500N 6550E	19	5
4500N 6600E	13	10
4500N 6650E	25	5
4500N 6700 E		
4500N 7000E	14	nd
4600N 6850E	36	10
4600N 6100E	21	20
4600N 6150E	19	10
4600N 6200E	35	nd
4600N 6250E	12	5
4600N 6300E	19	nd
4600N 6350E	20	nd
4600N 6400E	24	nd
DETECTION LIMIT	1	5

**WIMBACHEN LAB LIMITED**  
 1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.

NOTES: nd = none detected  
 : - = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-39-038

JOB NUMBER: 84251

PAGE 2 OF 2

SAMPLE #	Cu ppm	Au ppb
4600N 6450E	16	15
4600N 6500E	19	10
4600N 6550E	23	15
4600N 6600E	20	5
4800N 6250E	9	20
6200N 4250E	14	10
6200N 4400E	10	nd
6200N 4450E	21	10
6200N 4500E	19	10
6200N 4550E	35	10
6200N 4650E	14	10
6200N 4700E	30	10
6200N 4750E	24	5
6200N 4800E	26	nd
6200N 4850E	30	15
6200N 4950E	34	nd
6200N 5000E	28	10
6200N 5050E	40	10
DETECTION LIMIT	1	5

6200 E

E N  
 6200N 4250E  
 6200N 4400E  
 6200N 4450E  
 6200N 4500E  
 6200N 4550E  
 6200N 4650E  
 6200N 4700E  
 6200N 4750E  
 6200N 4800E  
 6200N 4850E  
 6200N 4950E  
 6200N 5000E  
 6200N 5050E

**VANGEOCHEM LAB LIMITED**

MAIN OFFICE  
1521 Pemberton Ave.  
North Vancouver B.C. V7P 2S3  
(604) 986-5211 Telex: 04-352578

BRANCH OFFICE  
1637 Pandora St.  
Vancouver B.C. V5L 1L6  
(604) 251-5656

**GEOCHEMICAL ANALYTICAL REPORT**

CLIENT: E & B EXPLORATION INC.  
ADDRESS: #1440, 800 West Pender Street  
: Vancouver B.C.  
: V6C 2V6

DATE: July 25 1984

REPORT#: 84-39-031  
JOB#: 84242

PROJECT#: 5145  
SAMPLES ARRIVED: July 12 1984  
REPORT COMPLETED: July 25 1984  
ANALYSED FOR: Cu Au  
SAMPLES FROM: R. SIMPSON  
COPY SENT TO: E & B EXPLORATION INC.

INVOICE#: 8049  
TOTAL SAMPLES: 224  
SAMPLE TYPE: 224 soil  
REJECTS: DISCARDED

PREPARED FOR: E & B EXPLORATION INC.

ANALYSED BY: VGC Staff

SIGNED: 

GENERAL REMARK: None

**VANGUARD LAB LIMITED**

1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 84-352578

PREPARED FOR: E & B EXPLORATION INC.

NOTES: nc = none detected  
 : — = not analysed  
 : is = insufficient sample

REPORT NUMBER: BA-39-031

JOB NUMBER: 84242

PAGE 1 OF 6

SAMPLE #	Cu ppm	Au ppb
7800E - 3500N	27	5
7800E - 3550N	25	10
7800E - 3600N	9	20
7800E - 3650N	16	5
7800E - 3700N	89	15
7800E - 3750N	60	15
7800E - 3800N	20	20
7800E - 3850N	36	nc
7800E - 3900N	32	15
7800E - 3950N	15	nc
7800E - 4000N	17	20
7800E - 4050N	23	nc
7800E - 4100N	16	5
7800E - 4150N	26	15
7800E - 4200N	11	10
7800E - 4250N	30	nc
7800E - 4300N	42	40
7800E - 4350N	125	40
2400N - 4300E	30	10
2400N - 4350E	23	nc
2400N - 4400E	19	10
2400N - 4450E	34	5
2400N - 4500E	15	5
2400N - 4550E	16	15
2400N - 4600E	29	20
2400N - 4650E	21	5
2400N - 4700E	30	nc
2400N - 4750E	19	15
2400N - 4800E	23	15
2400N - 4850E	36	5
2400N - 4900E	35	5
2400N - 4950E	25	10
2600N - 4300E	17	10
2600N - 4350E	204	nc
2600N - 4400E	29	15
2600N - 4450E	30	20
2600N - 4500E	16	nc
2600N - 4550E	35	10
2600N - 4600E	21	20
DETECTION LIMIT	1	5

**WAGBODCHEN LAB LIMITED**  
 1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 84-352578

PREPARED FOR: E & E EXPLORATION INC.  
 NOTES: nd = none detected  
 : -- = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-39-031

JOB NUMBER: 84242

PAGE 2 OF 6

SAMPLE #	Cu	Au
	ppm	ppm
2600N - 4650E	22	18
2600N - 4700E	54	5
2600N - 4750E	21	18
2600N - 4800E	15	5
2600N - 4850E	61	nc
2600N - 4900E	17	nc
2600N - 4950E	33	5
3800N - 4600E	51	nc
3800N - 4700E	19	nc
3800N - 4800E	18	nc
3800N - 4850E	26	nc
3800N - 4900E	13	5
3800N - 4950E	16	5
3800N - 5000E	18	nc
3800N - 5050E	15	nc
3800N - 5100E	25	5
3800N - 5150E	33	nc
3800N - 5200E	26	nc
3900N - 4650E	31	nc
3900N - 4700E	14	nc
3900N - 4750E	18	18
3900N - 4900E	15	15
3900N - 4950E	26	nc
3900N - 5000E	38	nc
3900N - 5050E	14	nc
3900N - 5100E	32	nc
3900N - 5150E	12	nc
4000N - 4600E	21	5
4000N - 4650E	15	nc
4000N - 4700E	18	nc
4000N - 4750E	34	nc
4000N - 4800E	28	nc
4000N - 4950E	14	nc
4000N - 5000E	18	nc
4000N - 5050E	18	nc
4000N - 5100E	66	15
4100N - 650E	28	18
4100N - 700E	31	18
4100N - 750E	19	nc
DETECTION LIMIT	1	5

**WIMBECHER LAB LIMITED**

1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352576

PREPARED FOR: E & B EXPLORATION INC.

NOTES:    nc = none detected  
           :    — = not analysed  
           :    is = insufficient sample

REPORT NUMBER: 64-39-031

JOB NUMBER: 64242

PAGE 3 OF 6

SAMPLE #	Cu ppm	Au ppb
4100N - 800E	41	nc
4100N - 850E	22	nc
4100N - 900E	24	nc
4100N - 950E	30	nc
4100N - 1000E	39	10
4100N - 1050E	31	5
4100N - 1100E	25	nc
4100N - 1150E	46	5
4100N - 1200E	30	nc
4100N - 1250E	34	nc
4100N - 1300E	21	5
4100N - 1350E	26	5
4100N - 1400E	24	nc
4100N - 1450E	35	nc
4100N - 1500E	31	10
4100N - 1550E	30	50
4100N - 1600E	19	5
4100N - 1650E	30	nc
4100N - 1700E	18	nc
4100N - 1750E	27	10
4100N - 1800E	103	nc
4100N - 1850E	15	10
4100N - 1900E	24	20
4100N - 1950E	16	nc
4100N - 2000E	23	nc
4100N - 2050E	25	nc
4100N - 2100E	91	nc
4100N - 2150E	23	5
4100N - 2200E	20	nc
4100N - 2250E	31	nc
4100N - 2300E	24	nc
4100N - 2350E	26	nc
4100N - 2400E	25	nc
4100N - 2450E	22	nc
4100N - 2500E	23	nc
4100N - 2550E	16	5
4100N - 2600E	16	nc
4100N - 2650E	15	nc
4100N - 2700E	24	nc
DETECTION LIMIT	1	5



## VANSEDCHEN LAB LIMITED

1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352576

PREPARED FOR: E &amp; E EXPLORATION INC.

NOTES: nd = none detected  
 : -- = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-39-031

JOB NUMBER: 84243

PAGE 4 OF 6

SAMP_E #	Cu ppm	Au ppb
4100N - 2750E	23	nd
4100N - 2800E	30	nd
4100N - 2850E	31	nd
4100N - 2900E	30	nd
4100N - 2950E	20	nd
4100N - 3000E	36	5
4100N - 3050E	26	nd
4100N - 3100E	27	nd
4100N - 3150E	14	nd
4100N - 4500E	21	15
4100N - 4550E	24	5
4100N - 4700E	33	10
4100N - 4750E	21	10
4100N - 4800E	35	nd
4100N - 4850E	36	5
4100N - 4900E	21	nd
4100N - 4950E	13	5
4100N - 5000E	24	nd
4100N - 5050E	26	nd
4100N - 5100E	22	5
4500N - 400E	21	nd
4500N - 450E	25	nd
4500N - 500E	31	10
4500N - 550E	20	nd
4500N - 600E	21	nd
4500N - 650E	66	10
4500N - 700E	72	nd
4500N - 750E	96	nd
4500N - 800E	21	nd
4500N - 850E	21	nd
4500N - 900E	20	20
4500N - 950E	19	nd
4500N - 1000E	33	5
4500N - 1050E	27	nd
4500N - 1100E	20	nd
4500N - 1150E	26	nd
4500N - 1200E	24	nd
4500N - 1250E	31	20
4500N - 1300E	17	nd
DETECTION LIMIT	:	5

**WAGGONER LAB LIMITED**  
 1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352578

PREPARED FOR: E & E EXPLORATION INC.

NOTES:    nc = none detected  
           :    — = not analysed  
           :    is = insufficient sample

REPORT NUMBER: 84-35-031

JOB NUMBER: 64242

PAGE 5 OF 6

SAMPLE #	Cu ppm	Au ppb
4500N - 1350E	26	5
4500N - 1400E	32	nd
4500N - 1450E	19	nd
4500N - 1500E	25	nc
4500N - 1550E	21	15
4500N - 1600E	14	nc
4500N - 1650E	12	nd
4500N - 1700E	22	12
4500N - 1750E	11	nc
4500N - 1800E	32	nc
4500N - 1850E	14	nc
4500N - 1900E	14	5
4500N - 1950E	22	nc
4500N - 2000E	22	nc
4500N - 2050E	56	nc
4500N - 2100E	26	5
4500N - 2150E	75	nd
4500N - 2200E	75	12
4500N - 2250E	32	nc
4500N - 2300E	15	nc
4500N - 2350E	19	nc
4500N - 2400E	25	nc
4500N - 2450E	22	nc
4500N - 2500E	42	nc
4500N - 2550E	15	5
4500N - 2600E	31	15
4500N - 2650E	26	nc
4500N - 2700E	32	nc
4500N - 2750E	22	nc
4500N - 2800E	15	nc
4500N - 2850E	24	nc
4500N - 2900E	26	nc
4500N - 2950E	25	12
4500N - 3000E	15	nc
4500N - 3050E	12	12
4500N - 3100E	15	12
4900N - 900E	16	nc
4900N - 950E	45	nc
4900N - 1000E	47	nc
DETECTION LIMIT	1	5

**WINGECHEM LAB LIMITED**  
1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.  
NOTES: nd = none detected  
: — = not analysed  
: is = insufficient sample

REPORT NUMBER: 84-39-031 JOB NUMBER: 84242

PAGE 6 OF 6

SAMPLE #	Cu ppm	Au ppb
4900N - 1050E	26	nd
4900N - 1100E	14	nd
4900N - 1150E	15	5
4900N - 1200E	28	nd
4900N - 1250E	61	5
4900N - 1300E	25	nd
4900N - 1350E	33	nd
4900N - 1400E	24	nd
4900N - 1450E	119	nd
4900N - 1500E	64	5
4900N - 1550E	16	nd
4900N - 1600E	18	nd
4900N - 1650E	15	5
4900N - 1700E	19	10
4900N - 1750E	20	20
4900N - 1800E	51	nd
4900N - 1850E	38	5
4900N - 1900E	18	nd
4900N - 1950E	24	nd
4900N - 2000E	35	nd
4900N - 2050E	36	nd
4900N - 2100E	44	nd
4900N - 2150E	12	nd
4900N - 2200E	15	nd
4900N - 2250E	33	5
4900N - 2300E	28	10
4900N - 2350E	27	20
4900N - 2400E	36	5
4900N - 2450E	69	nd
DETECTION LIMIT	1	5

**VANGEOCHEM LAB LIMITED**

MAIN OFFICE  
1521 Pemberton Ave.  
North Vancouver B.C. V7P 2G3  
(604) 986-5211 Telex: 04-352578

BRANCH OFFICE  
1630 Pandora St.  
Vancouver B.C. V5L 1L6  
(604) 251-5656

**GEOCHEMICAL ANALYTICAL REPORT**

CLIENT: E & B EXPLORATION INC.  
ADDRESS: #1440, 800 West Pender Street  
: Vancouver B.C.  
: V6C 2V6

DATE: July 25 1984

REPORT#: 84-39-032  
JOB#: 84243

PROJECT#: 5145  
SAMPLES ARRIVED: July 13 1984  
REPORT COMPLETED: July 25 1984  
ANALYSED FOR: Cu Au  
SAMPLES FROM: R. SIMPSON  
COPY SENT TO: E & B EXPLORATION INC.

INVOICE#: 8049  
TOTAL SAMPLES: 73  
SAMPLE TYPE: 73 Soil  
REJECTS: DISCARDED

PREPARED FOR: E & B EXPLORATION INC.

ANALYSED BY: VGC Staff

SIGNED: 

GENERAL REMARK: None

VANGECHEM LAB LIMITED  
 1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 966-5211 Telex: 04-352578

PREPARED FOR: E & E EXPLORATION INC.  
 NOTES: nd = none detected  
 : — = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-39-032 JOB NUMBER: 84243

PAGE 1 OF 2

SAMPLE #	Cu ppm	Au ppb
3600N 7700E	38	nd
3600N 7750E	19	nd
3600N 7800E	11	nd
3600N 7850E	38:	5
3600N 7900E	49	5
3600N 8000E	78	nd
3600N 8050E	48	25
3600N 8100E	72	nd
3600N 8150E	51	nd
3600N 8200E	16	5
3600N 8250E	122	nd
3600N 8300E	29	nd
3800N 7600E	28	nd
3800N 7650E	36	nd
3800N 7700E	75	28
3800N 7750E	18	nd
3800N 7850E	233	28
3800N 7900E	17	15
3800N 7950E	88	25
3800N 8000E	36	18
3800N 8050E	19	nd
3800N 8100E	25	38
3800N 8150E	71	15
3800N 8200E	26	5
3800N 8250E	18	nd
3800N 8300E	35	18
3900N 7550E	9	nd
3900N 7600E	68	nd
3900N 7650E	23:	nd
3900N 7700E	43	15
3900N 7750E	45	5
3900N 7850E	47	18
3900N 7900E	85	nd
3900N 7950E	25	nd
3900N 8000E	26	nd
3900N 8050E	32	18
3900N 8100E	288	18
3900N 8150E	65	18
3900N 8200E	37	nd
DETECTION LIMIT	:	5

WAGBODCHEN LAB LIMITED  
1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 986-5211 Telex: 04-352578

PREPARED FOR: E & I EXPLORATION INC.  
NOTES: nd = none detected  
: -- = not analysed  
: is = insufficient sample

REPORT NUMBER: BA-39-032

JOB NUMBER: 84243

PAGE 2 OF 2

SAMPLE #	Cu ppm	Au ppb
3900N 6250E	27	5
3900N 8300E	49	10
4100N 7550E	47	5
4100N 7500E	25	5
4100N 7650E	40	10
4100N 7700E	44	5
4100N 7750E	51	5
4100N 7800E	19	10
4100NA 7850E	28	5
4100NA 7900E	30	5
4100NA 7950E	11	nd
4100NA 8000E	37	nd
4100N 8000E	24	10
4100N 8050E	21	5
4100N 8100E	40	20
4100N 8150E	35	nd
4100N 8200E	44	5
4100N 8250E	176	5
4100N 8300E	59	5
4200N 7550E	32	5
4200N 7600E	26	5
4200N 7650E	79	10
4200N 7700E	22	5
4200N 7750E	40	nd
4200N 7800E	31	5
4200N 7850E	17	5
4200N 7900E	28	5
4200N 7950E	51	5
4200N 8000E	69	10
4200N 8050E	238	5
4200N 8100E	52	5
4200N 8200E	146	10
4200N 8250E	313	10
4200N 8300E	50	5
DETECTION LIMIT	1	5

**VANGEOCHEM LAB LIMITED**

MAIN OFFICE  
1521 Pemberton Ave.  
North Vancouver B.C. V7P 2S3  
(604)986-5211 Telex: 04-352578

BRANCH OFFICE  
1638 Pandora St.  
Vancouver B.C. V5L 1L6  
(604)251-5656

**GEOCHEMICAL ANALYTICAL REPORT**

CLIENT: E & B EXPLORATION INC.  
ADDRESS: #1440, 800 West Pender Street  
: Vancouver B.C.  
: V6C 2V6

DATE: August 16 1984

REPORT#: 84-39-835  
JOB#: 84337

PROJECT#: 5145  
SAMPLES ARRIVED: August 7 1984  
REPORT COMPLETED: August 16 1984  
ANALYSED FOR: Au  
SAMPLES FROM: E & B EXPLORATION INC.  
COPY SENT TO: E & B EXPLORATION INC.

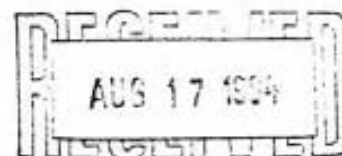
INVOICE#: 8148  
TOTAL SAMPLES: 321  
SAMPLE TYPE: 321 Soil  
REJECTS: DISCARDED

PREPARED FOR: E & B EXPLORATION INC.

ANALYSED BY: VGC Staff

SIGNED: 

GENERAL REMARK: None



WIMBACHEN LAB LIMITED  
1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 966-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.

NOTES: nd = none detected  
: - = not analysed  
: is = insufficient sample

REPORT NUMBER: 84-39-835

JOB NUMBER: 84337

PAGE 1 OF 9

SAMPLE #	Au ppb
4000N 7550E	10 ✓
4000N 7600E	nd
4000N 7650E	nd
4000N 7700E	15
4000N 7750E	5
4000N 7850E	nd
4000N 7900E	10
4000N 7950E	nd
4000N 8000E	10
4000N 8050E	5 ✓
4000N 8100E	10 ✓
4000N 8150E	10
4000N 8200E	10
4000N 8250E	nd
4000N 8300E	5 ✓
4300N 7550E	15
4300N 7600E	nd
4300N 7650E	nd
4300N 7700E	nd
4300N 7750E	10
4300N 7850E	10
4300N 7900E	nd
4300N 7950E	nd
4300N 8000E	10
4300N 8050E	10
4300N 8100E	15
4300N 8150E	15
4300N 8200E	nd
4300N 8250E	10
4300N 8300E	5
5000N 8200E	nd ✓
5000N 8300E	10
5000N 8400E	nd
5000N 8400E (DUP)	10
5000N 8500E	5
5000N 8700E	5
5000N 8800E	10
5000N 8900E	nd
5000N 9000E	5 ✓
DETECTION LIMIT	5

*Handwritten:* 5.6 F



WIMBERGEN LAB LIMITED  
1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 966-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.  
NOTES: nd = none detected  
: -- = not analysed  
: is = insufficient sample

REPORT NUMBER: 84-39-035 JOB NUMBER: 84337

PAGE 2 OF 9

SAMPLE #	Au ppb
5000N 9100E	nd ✓
5000N 9200E	nd ✓
5000N 9300E	10 ✓
5000N 9500E	15 ✓
5000N 9600E	10 ✓
5200N 9700E	nd ✓
5200N 8600E	5 ✓
5200N 8700E	nd ✓
5200N 8800E	nd ✓
5200N 8900E	nd ✓
5200N 9000E	nd ✓
5200N 9100E	nd ✓
5200N 9200E	nd ✓
5200N 9300E	nd ✓
5200N 9400E	nd ✓
5200N 9500E	nd ✓
5200N 9600E	nd ✓
5200N 9700E	nd ✓
5200N 9800E	nd ✓
5400N 7500E	5 ✓
5400N 7600E	nd ✓
5400N 7700E	5 ✓
5400N 7800E	nd ✓
5400N 7900E	nd ✓
5400N 8000E	nd ✓
5400N 8100E	5 ✓
5400N 8200E	nd ✓
5400N 8300E	nd ✓
5400N 8400E	5 ✓
5400N 8600E	nd ✓
5400N 8700E	5 ✓
5400N 8800E	5 ✓
5400N 8900E	5 ✓
5400N 9000E	nd ✓
5400N 9100E	10 ✓
5400N 9200E	nd ✓
5400N 9300E	5 ✓
5400N 9400E	5 ✓
5400N 9500E	nd ✓
DETECTION LIMIT	5

WASSERMAN LAB LIMITED

1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.

NOTES: nd = none detected  
 : - = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-39-835

JOB NUMBER: 84337

PAGE 3 OF 9

SAMPLE #	Au ppb
5400N 9600E	nd ✓
5400N 9700E	nd ✓
5400N 9800E	nd ✓
5500N 8600E	10 ✓
5500N 8700E	5 ✓
5500N 8800E	nd ✓
5500N 8900E	10 ✓
5500N 9000E	25 ✓
5500N 9100E	nd ✓
5500N 9200E	20 ✓
5500N 9300E	nd ✓
5500N 9400E	30 ✓
5500N 9500E	20 ✓
5500N 9600E	5 ✓
5500N 9700E	10 ✓
5500N 9800E	10 ✓
5800N 8600E	5 ✓
5800N 8700E	15 ✓
5800N 8800E	10 ✓
5800N 8900E	10 ✓
5800N 9000E	5 ✓
5800N 9200E	10 ✓
5800N 9300E	nd ✓
5800N 9400E	10 ✓
5800N 9500E	20 ✓
5800N 9600E	10 ✓
5800N 9700E	10 ✓
5800N 9800E	15 ✓
5800N 7000E	10 ✓
5800N 7100E	10 ✓
5800N 7300E	20 ✓
5800N 7400E	5 ✓
5800N 7500E	15 ✓
5800N 7600E	30 ✓
5800N 7700E	20 ✓
5800N 7800E	5 ✓
5800N 7900E	10 ✓
5800N 8000E	15 ✓
5800N 8100E	25 ✓
DETECTION LIMIT	5

**WIMBLEDEN LAB LIMITED**  
 1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.  
 NOTES: nd = none detected  
 : — = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-39-035

JOB NUMBER: 84337

PAGE 4 OF 9

SAMPLE #	Au ppb
5800N 8200E	15 ✓
5800N 8300E	10 ✓
5800N 8400E	15 ✓
6000N 8600E	nd ✓
6000N 8700E	20 ✓
6000N 8800E	10 ✓
6000N 8900E	20 ✓
6000N 9000E	25 ✓
6000N 9100E	nd ✓
6000N 9200E	20 ✓
6000N 9300E	10 ✓
6000N 9400E	20 ✓
6000N 9500E	20 ✓
6000N 9600E	10 ✓
6000N 9700E	20 ✓
6000N 9800E	10 ✓
6200N 6500E	20
6200N 6700E	20
6200N 6800E	10
6200N 6900E	15
6200N 7000E	20
6200N 7100E	5
6200N 7200E	10
6200N 7300E	20
6200N 7400E	5
6200N 7500E	10
6200N 7600E	15
6200N 7700E	10
6200N 7800E	20
6200N 7900E	10 ✓
6200N 8000E	30 ✓
6200N 8100E	60 ✓
6200N 8200E	10 ✓
6200N 8300E	15 ✓
6200N 8400E	10 ✓
6200N 8500E	10 ✓
6200N 8600E	15 ✓
6200N 8700E	10 ✓
6200N 8800E	nd ✓
DETECTION LIMIT	5

**WARRIZON LAB LIMITED**

1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.

NOTES: nd = none detected  
 : — = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-39-035

JOB NUMBER: 84337

PAGE 5 OF 9

SAMPLE #	Au ppb
6200N 8900E	10 ✓
6200N 9000E	15 ✓
6200N 9100E	10 ✓
6200N 9200E	20 ✓
6200N 9300E	5 ✓
6200N 9400E	20 ✓
6200N 9500E	20 ✓
6200N 9600E	15 ✓
6300N 6550E	15 ✓
6300N 6600E	15 ✓
6300N 6650E	15 ✓
6300N 6700E	15 ✓
6300N 6750E	25 ✓
6300N 6800E	10 ✓
6300N 6850E	20 ✓
6300N 6950E	15 ✓
6300N 7000E	15 ✓
6300N 7150E	15 ✓
6300N 7250E	15 ✓
6300N 7300E	20 ✓
6300N 7350E	10 ✓
6300N 7400E	20 ✓
6300N 7450E	5 ✓
6300N 7500E	10 ✓
6300N 7550E	20 ✓
6300N 7600E	15 ✓
6300N 7650E	20 ✓
6300N 7700E	30 ✓
6300N 7750E	nd ✓
6300N 7800E	10 ✓
6300N 7850E	nd ✓
6300N 7900E	15 ✓
6300N 7950E	30 ✓
6300N 8000E	15 ✓
6300N 8050E	10 ✓
6300N 8100E	10 ✓
6300N 8150E	15 ✓
6300N 8200E	10 ✓
6300N 8250E	10 ✓
DETECTION LIMIT	5

**WINDITION LAB LIMITED**

1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.

NOTES: nd = none detected  
 : - = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-39-035

JOB NUMBER: 84337

PAGE 6 OF 9

SAMPLE #	Au ppb
6300N 8300E	30 ✓
6300N 8350E	15 ✓
6300N 8400E	nd ✓
6300N 8450E	15 ✓
6600N 6340E	5 ✓
6600N 6400E	10 ✓
6600N 6500E	15 ✓
6600N 6600E	5 ✓
6600N 6700E	10 ✓
6600N 6800E	10 ✓
6600N 6900E	10 ✓
6600N 7000E	5 ✓
6600N 7100E	10 ✓
6600N 7200E	15 ✓
6600N 7300E	5 ✓
6600N 7400E	20 ✓
6600N 7500E	15 ✓
6600N 7600E	20 ✓
6600N 7700E	5 ✓
6600N 7800E	5 ✓
6600N 7900E	10 ✓
6600N 8000E	10 ✓
6600N 8100E	15 ✓
6600N 8300E	25 ✓
6600N 8400E	5 ✓
6600N 8500E	10 ✓
6600N 8700E	25 ✓
6600N 8800E	nd ✓
6600N 8900E	10 ✓
6600N 9000E	15 ✓
6600N 9100E	20 ✓
6600N 9200E	25 ✓
6600N 9400E	20 ✓
6600N 9500E	30 ✓
6600N 9600E	10 ✓
6600N 9700E	20 ✓
6600N 9800E	10 ✓
7000N 6200E	20 ✓
7000N 6300E	15 ✓
DETECTION LIMIT	5

WARRICKSON LAB LIMITED

1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.

NOTES: nd = none detected  
 : - = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-39-035

JOB NUMBER: 84337

PAGE 7 OF 9

SAMPLE #	Au ppb
7000N 6400E	10 ✓
7000N 6500E	10 ✓
7000N 6600E	5 ✓
7000N 6700E	20 ✓
7000N 6800E	15 ✓
7000N 6900E	20 ✓
7000N 7000E	10 ✓
7000N 7200E	5 ✓
7000N 7300E	20 ✓
7000N 7400E	15 ✓
7000N 7600E	5 ✓
7000N 7700E	25 ✓
7000N 7800E	20 ✓
7000N 7900E	30 ✓
7000N 8000E	25 ✓
7000N 8100E	25 ✓
7000N 8200E	15 ✓
7000N 8300E	15 ✓
7000N 8400E	10 ✓
7000N 8600E	10 ✓
7000N 8700E	40 ✓
7000N 8800E	5 ✓
7000N 8900E	5 ✓
7000N 9000E	15 ✓
7000N 9100E	10 ✓
7000N 9200E	20 ✓
7000N 9300E	15 ✓
7000N 9400E	15 ✓
7000N 9500E	15 ✓
7000N 9600E	15 ✓
7000N 9700E	15 ✓
7000N 9800E	20 ✓
7300N 9700E	10 ✓
7300N 9800E	10 ✓
7400N 6200E	10 ✓
7400N 6300E	10 ✓
7400N 6400E	20 ✓
7400N 6700E	10 ✓
7400N 6800E	15 ✓
DETECTION LIMIT	5

WINDRICH LAB LIMITED  
1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.  
NOTES: nd = none detected  
: - = not analysed  
: is = insufficient sample

REPORT NUMBER: 04-39-035 JOB NUMBER: 04337

PAGE 8 OF 9

SAMPLE #	Au ppb
7400N 6900E	5
7400N 7000E	10
7400N 7100E	10
7400N 7200E	15
7400N 7300E	20
7400N 7400E	15
7400N 7500E	15
7400N 7500E	15
7400N 7700E	15
7400N 7800E	10
7400N 7900E	10
7400N 8000E	15
7400N 8100E	15
7400N 8200E	20
7400N 8400E	10
7400N 8500E	5
7400N 8700E	15
7400N 8800E	nd
7400N 8900E	25
7400N 9000E	25
7400N 9100E	10
7400N 9200E	10
7400N 9300E	10
7400N 9400E	15
7400N 9500E	10
8500E 5000N	10
8500E 5100N	20
8500E 5200N	25
8500E 5300N	15
8500E 5400N	5
8500E 5500N	15
8500E 5600N	15
8500E 5700N	20
8500E 5800N	10
8500E 6000N	15
8500E 6100N	5
8500E 6400N	15
8500E 6500N	20
8500E 6600N	15

DETECTION LIMIT 5

WIMBICHEN LAB LIMITED  
1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 986-5211 Telex: 04-352578

PREPARED FOR: E & B EXPLORATION INC.

NOTES: nd = none detected  
: - = not analysed  
: is = insufficient sample

REPORT NUMBER: 84-39-035 JOB NUMBER: 84337

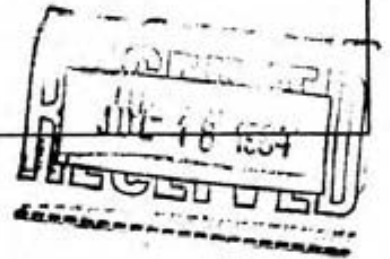
PAGE 9 OF 9

SAMPLE #	Au ppb
8500E 6700N	20 ✓
8500E 6800N	15 ✓
8500E 6900N	10 ✓
8500E 7000N	30 ✓
8500E 7100N	10 ✓
8500E 7200N	10 ✓
8500E 7300N	10 ✓
8500E 7400N	10 ✓
8500E 7500N	nd ✓
DETECTION LIMIT	5



# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814



## ANALYTICAL REPORT

Project ..... 5145 ..... Date of report July 18/84.....

File No. .... 4-572 ..... Date samples received July 13/84.....

Samples submitted by: .....

Company: ..... E & B Explorations .....

Report on: ..... (assay prep)14 rock ..... Geochem samples .....

..... Assay samples .....

Copies sent to:

1. .... E & B Explorations, Vancouver, B.C. ....
2. ....
3. ....

Samples: Sieved to mesh ..... Ground to mesh ..... -100.....

Prepared samples stored  discarded

rejects geo stored  discarded

Methods of analysis: .... Cu, Pb, Zn, Ag nitric, perchloric digestion A.A. analysis  
Au aqua regia A.A. analysis., W. multi-acid, .....

Remarks: .....

SPECIALISTS IN MINERAL ENVIRONMENTS

MIN-EN Laboratories Ltd.  
Specialists in Mineral Environments  
705 WEST 15th STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: 04-352628

GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: E & B EXPLORATIONS  
PROJECT: 5145  
ATTENTION: LEN SALEKEN

FILE: 4-572  
DATE: JULY 18/84  
TYPE: ROCK GEOCHEM

We hereby certify that the following are the results of the geochemical analysis made on 14 samples submitted.

SAMPLE NUMBER	CU PPM	PB PPM	ZN PPM	AG PPM	AU PPB	W PPM
28463	195			0.5	5	
64	43			0.5	5	
65	19			0.7	5	
66	27			0.7	5	
67	25	30	63	1.0	10	<2
68	26			0.8	5	
69	10			0.8	5	
70	32			0.7	10	
71	37			0.6	5	
72	36			0.5	5	
73	32			0.7	5	
74	32			0.7	5	
75	70			0.8	5	
28476	116			0.5	5	

Certified by



# MIN-EN Laboratories Ltd.

705 WEST 15th STREET,  
NORTH VANCOUVER, B.C., CANADA V7M 1T2  
TELEPHONE (604) 980-5814

## ANALYTICAL REPORT

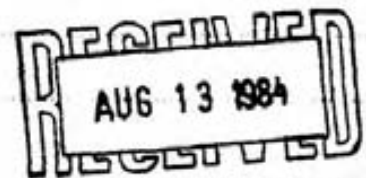
Project 5145 Date of report August 11/84.  
File No. 4-760 Date samples received August 8/84.  
Samples submitted by:  
Company: E & B Explorations  
Report on: 18 rocks (assay prep) Geochem samples  
Assay samples

### Copies sent to:

1. E & B Explorations, Vancouver, B.C.
- 2.
- 3.

Samples: Sieved to mesh Ground to mesh -100  
Prepared samples stored  discarded   
rejects stored  discarded   
Methods of analysis: Cu- nitric, perchloric digestion. A.A., Au-aqua regia.  
A.A.

Remarks:



SPECIALISTS IN MINERAL ENVIRONMENTS

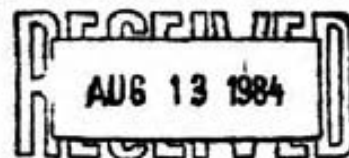
GEOCHEMICAL ANALYSIS CERTIFICATE

COMPANY: E & B EXPLORATIONS  
PROJECT: 5145  
ATTENTION: L. SALEKEN

FILE: 4-760  
DATE: AUGUST 11/84  
TYPE: ROCK GEOCHEM

We hereby certify that the following are the results of the geochemical analysis made on 18 samples submitted.

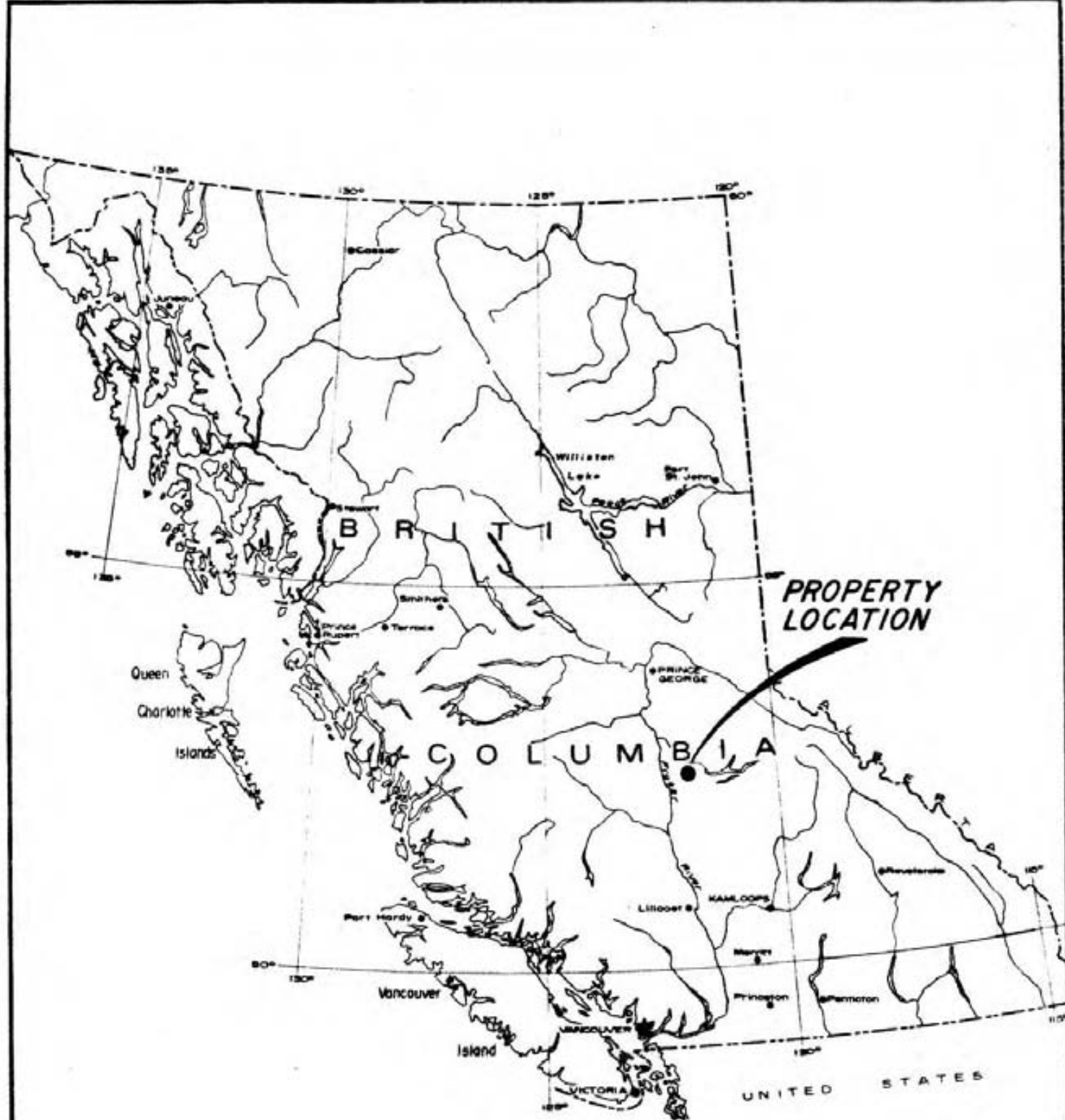
SAMPLE NUMBER	CU PPM	AU PPB
2B477 ✓	14	5
78 ✓	20	5
79 ✓	61	10
80 ✓	24	5
81 ✓	99	5
82 ✓	107	<5
83 ✓	37	15
84 ✓	10	10
85 ✓	9	5
86 ✓	64	10
87 ✓	22	5
88 ✓	37	5
89 ✓	24	25
90 ✓	81	<5
91 ✓	80	5
92 ✓	133	5
93 ✓	96	5
2B494 ✓	101	10



Certified by *[Signature]*

SECTION E - ILLUSTRATIONS

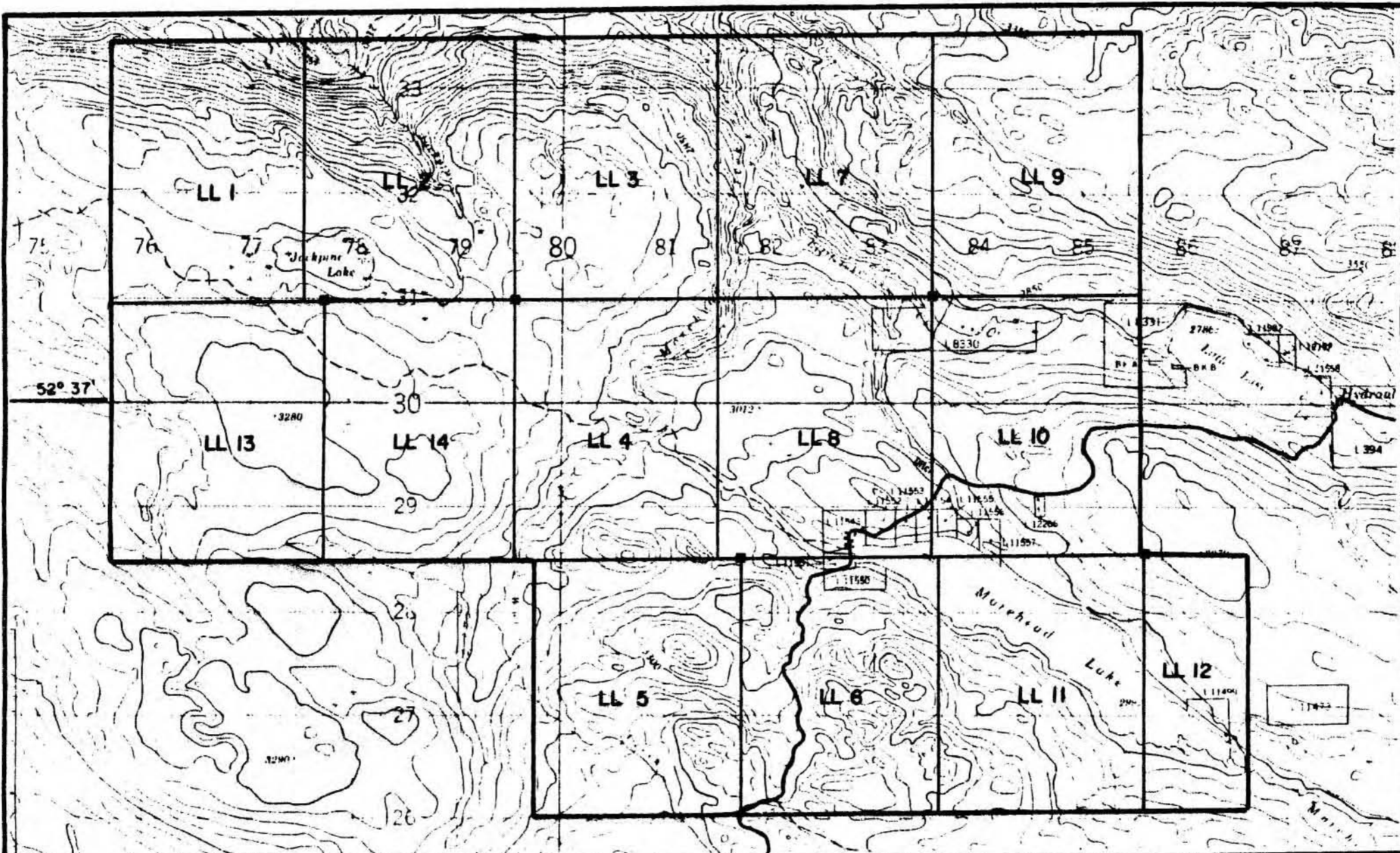
<u>Map No.</u>	<u>Title</u>	<u>Scale</u>
LL-84-1	Location Plan	
LL-84-2	Claim Map	1:50,000
LL-84-3	Geochemical Soil Survey	1:10,000
LL-84-4	Geology and Rock Geochemistry	1:10,000
LL-84-5	Geophysical Plan - grid A	1:2,500
LL-84-6	Geophysical Plan - grids A, E	1:2,500
LL-84-7	Geophysical Plan - grids B, C, D, F	1:2,500




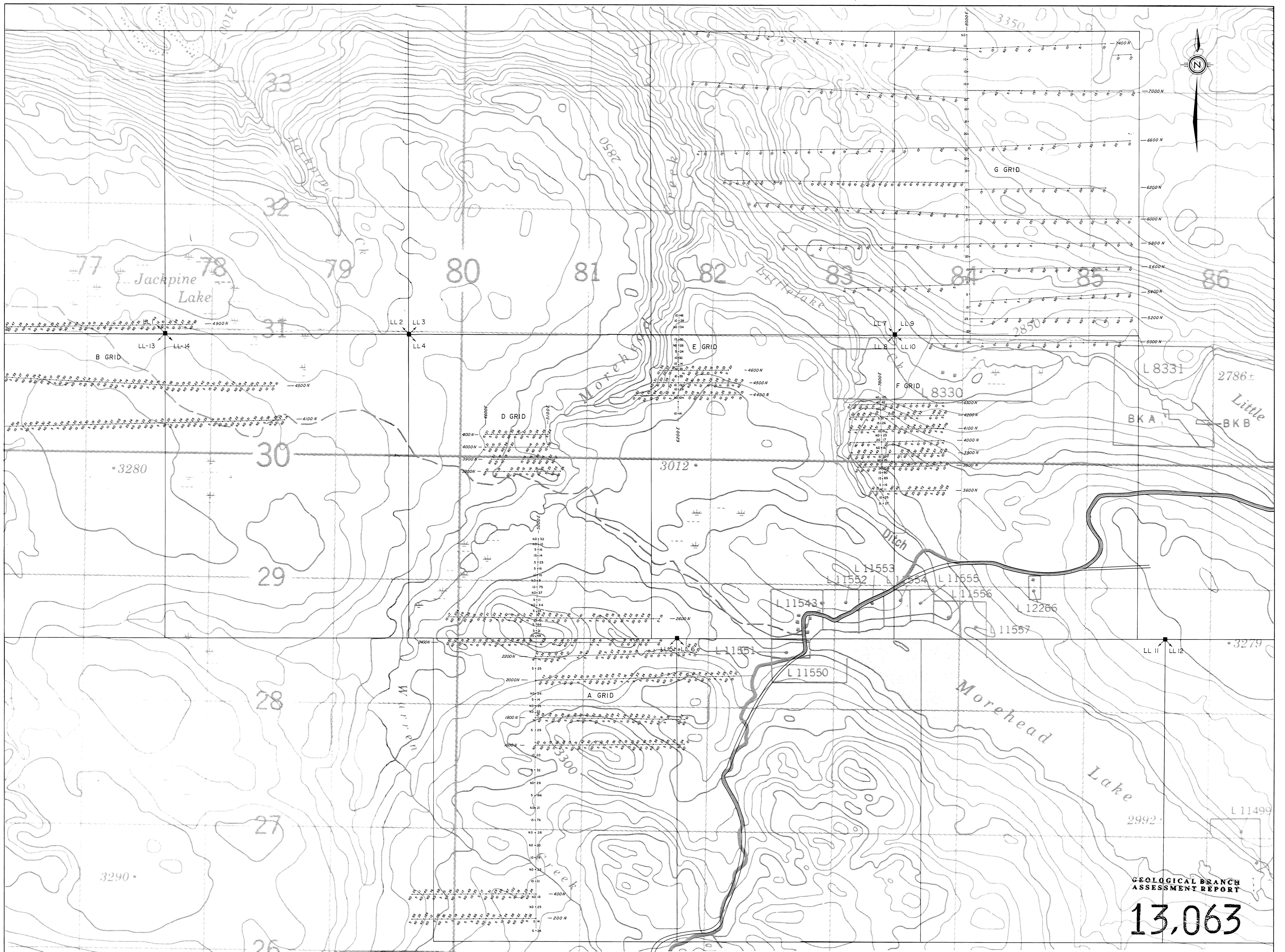
**E & B EXPLORATIONS INC.**  
**GRAND CANYON RESOURCES INC.**  
**LITTLE LAKE PROJECT**  
**LOCATION MAP**

100 50 0 100 200  
 SCALE IN MILES

Date: SEPT. / 1984      Fig. No. LL-84-1



	<b>E &amp; B EXPLORATIONS INC.</b> VANCOUVER CANADA		<b>GRAND CANYON RESOURCES INC.</b> LITTLE LAKE PROJECT <b>CLAIM MAP</b>			
	DATE	OFFICE	DEPARTMENT	MAP INDEX NO.	SCALE	DRAWING NO.
	Aug. / 1984				1: 50,000	LL - 84 - 2

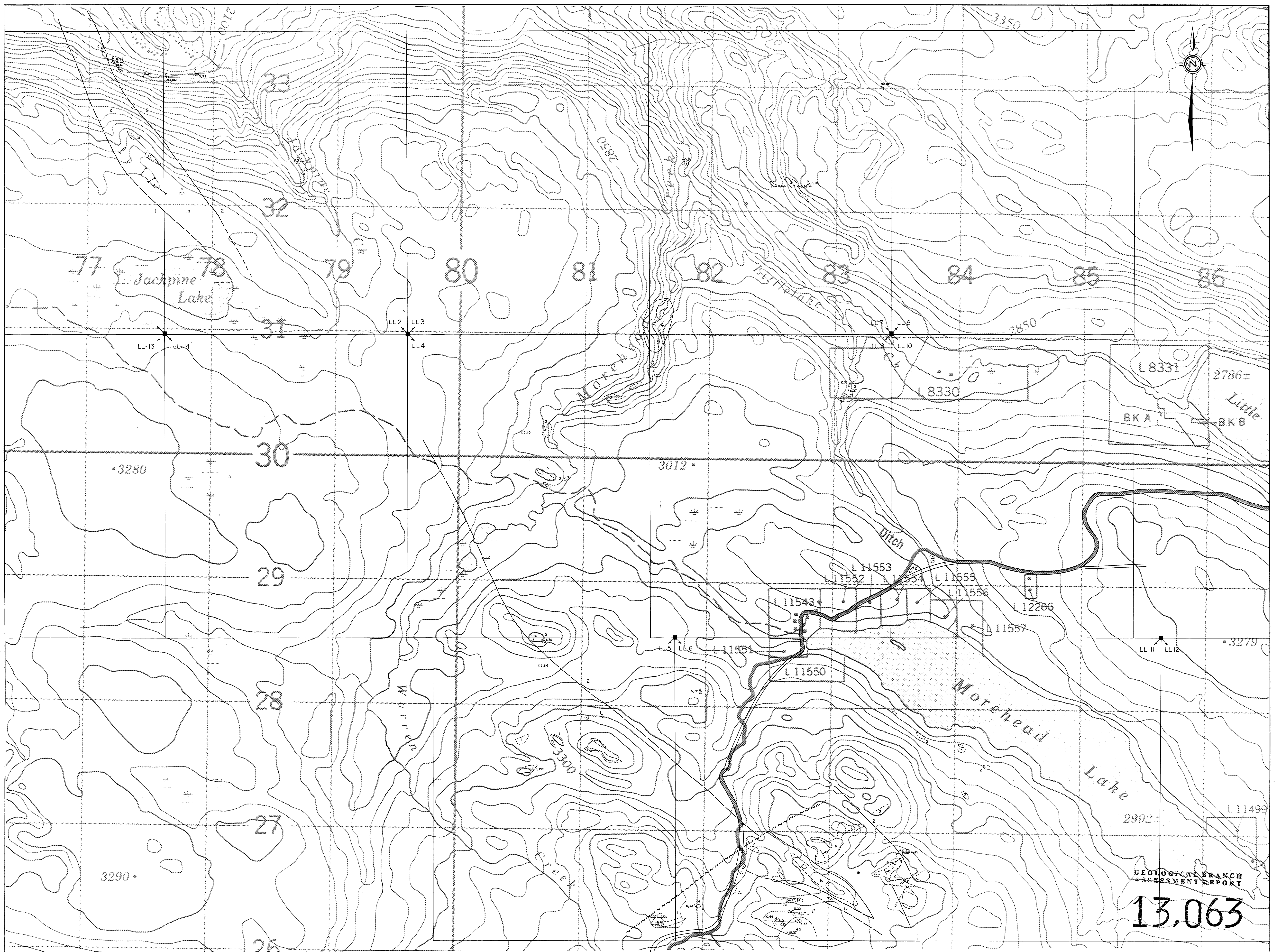


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**13,063**

MAP SCALE 1" = 200' 0 200 400 600 m N.T.S.	No. 1 Date: 1988 MADE BY: m.k. DESCRIPTION:	E & B Explorations Inc. OFFICE: _____ DEPARTMENT: _____	GRAND CANYON RESOURCES LTD. LITTLE LAKE PROJECT <b>GEOCHEMICAL SOIL SURVEY</b> Au ppb, Cu ppm MAP INDEX NUMBER: LL-84-3 SCALE: 1:10,000 DRAWING NUMBER: LL-84-3
	REVISIONS:		
	DATE: _____ DRAWN BY: _____ CHECKED: _____ APPROVED: _____		
	L 11550 L 11551 L 11552 L 11553 L 11554 L 11555 L 11556 L 11557 L 12266 L 8330 L 8331		
	3280 3012 3279 3290		

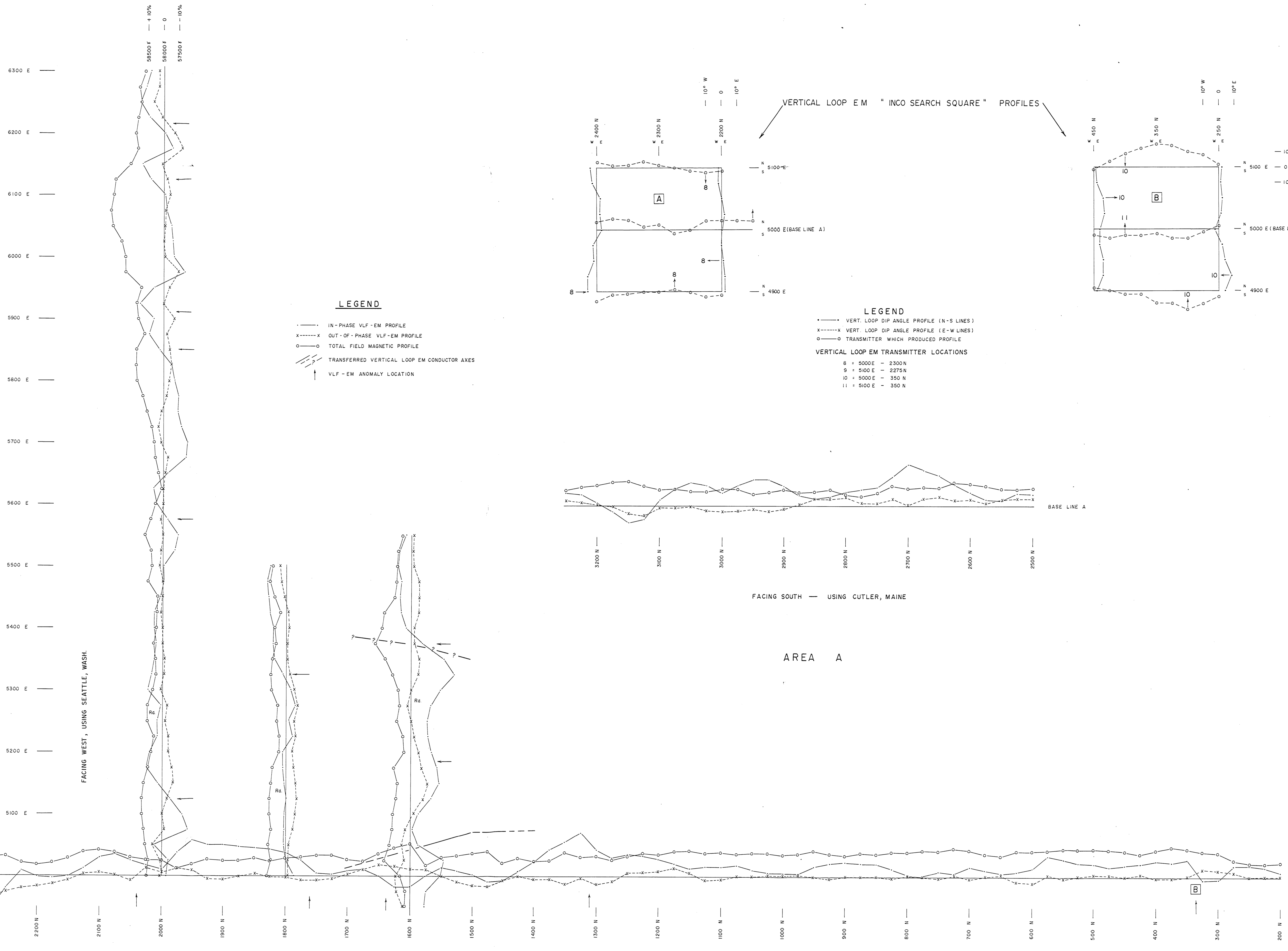
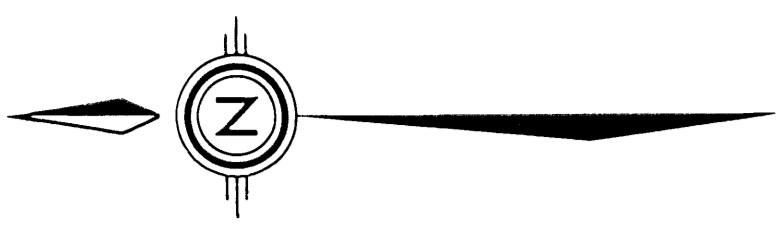




GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**13,063**

<p>1 Maroon basaltic breccia, locally amygdaloidal minor basic sandstone and</p> <p>1a Felsic to intermediate felspathic sandstone, grit and conglomerate</p> <p>1b Massive grey limestone</p>		<p>2 Poly lithologic tephritic breccia, maroon basalt fragments predominate with varying amounts of felsic and intermediate volcanic fragments</p> <p>2a Grey, calcareous argillite, sandstone and conglomerate</p>		<p>GUESNEL RIVER GROUP</p> <p>4 Upper Triassic To Lower Jurassic</p> <p>4a Grey monzonite and syenodiorite, pink syenite, minor diorite</p> <p>4b Pink fine grained to porphyritic monzonite and syenite</p> <p>3 Green and grey basaltic breccia, minor grey sandstone and conglomerate</p>		<p>MAP SCALE</p> <p>m 200 0 200 400 600m</p> <p>NTS</p>		<table border="1"> <thead> <tr> <th>No</th> <th>Date</th> <th>MADE BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td></tr> </tbody> </table>		No	Date	MADE BY	DESCRIPTION	1				2				3				4				5				<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DRAWN BY</th> <th>CHECKED</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td>SEPT./1984</td> <td>m.k.</td> <td></td> <td></td> </tr> </tbody> </table>		DATE	DRAWN BY	CHECKED	APPROVED	SEPT./1984	m.k.			<p><b>E &amp; B Explorations Inc.</b></p>		<p>GRAND CANYON RESOURCES LTD. LITTLE LAKE PROJECT GEOLOGY AND ROCK GEOCHEMISTRY</p>	
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				<p>x 5,19 = Rock Chip Sample Au(ppb), Cu (ppm)</p>		<p>OFFICE</p>		<p>DEPARTMENT</p>		<p>MAP INDEX NUMBER</p>		<p>SCALE 1" = 10,000'</p>		<p>DRAWING NUMBER LL-84-4</p>																																	



**LEGEND**

- IN-PHASE VLF-EM PROFILE
- - - - - X - - - - - OUT-OF-PHASE VLF-EM PROFILE
- .....○..... TOTAL FIELD MAGNETIC PROFILE
- TRANSFERRED VERTICAL LOOP EM CONDUCTOR AXES
- ↑ VLF-EM ANOMALY LOCATION

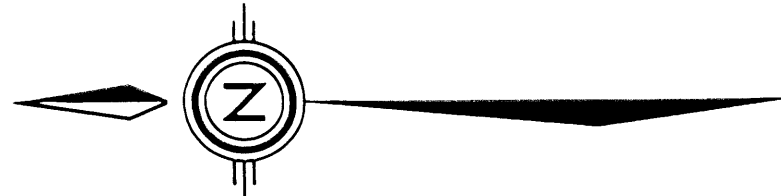
**LEGEND**

- VERT. LOOP DIP ANGLE PROFILE (N-S LINES)
  - - - - - X - - - - - VERT. LOOP DIP ANGLE PROFILE (E-W LINES)
  - TRANSMITTER WHICH PRODUCED PROFILE
- VERTICAL LOOP EM TRANSMITTER LOCATIONS**
- 8 = 5000E - 2300N
  - 9 = 5100E - 2275N
  - 10 = 5000E - 350N
  - 11 = 5100E - 350N

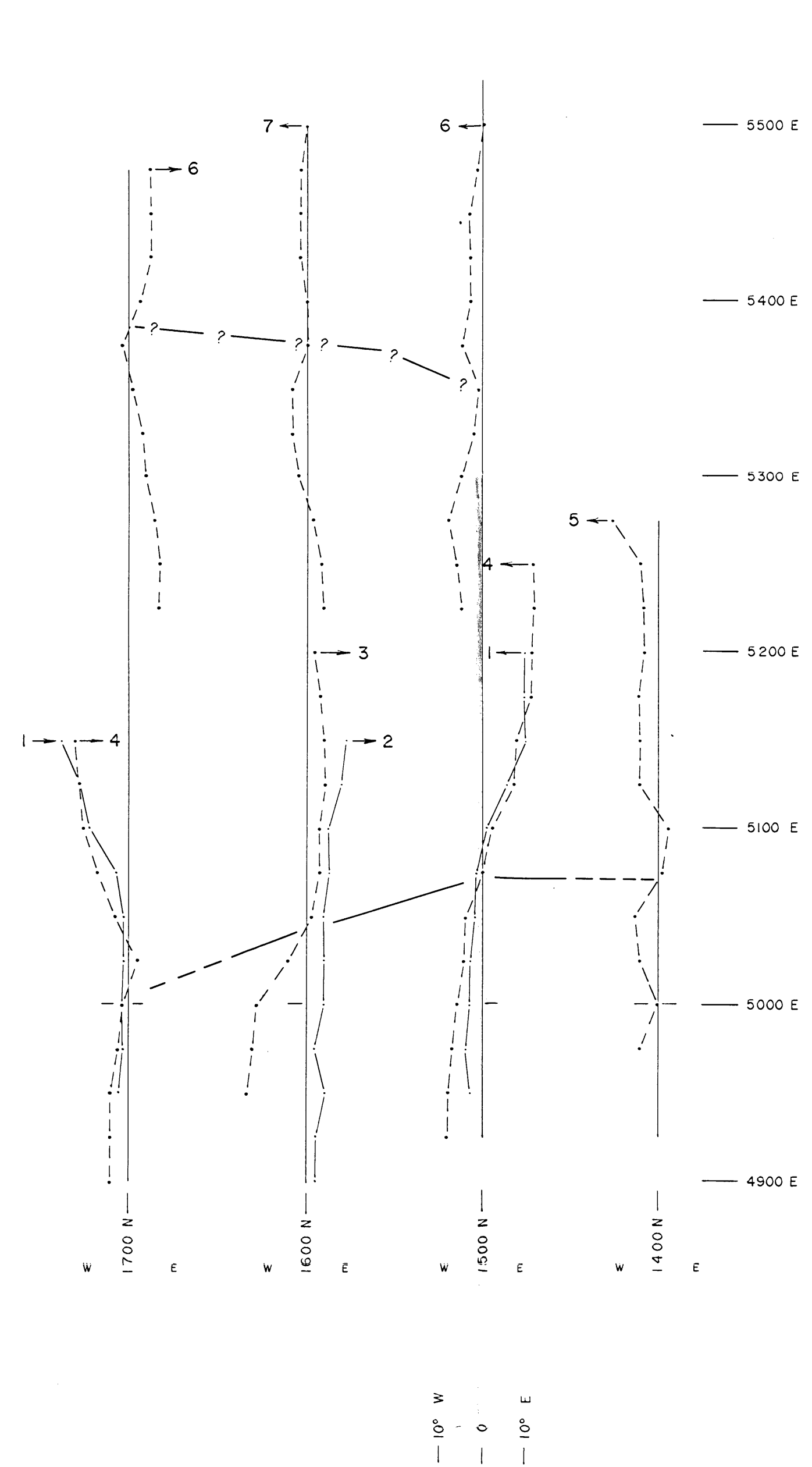
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**13,063**

MAP SCALE 	No. 1 Date MADE BY DESCRIPTION		LITTLE LAKE PROJECT VLF-EM MAGNETIC VERT. LOOP EM PROFILES EM-16, G 816, CEM
	DATE: SEPT. 84 DRAWN BY: J.V.V. CHECKED: _____ APPROVED: _____		OFFICE: _____ DEPARTMENT: _____



VERTICAL LOOP EM PROFILES



**LEGEND**

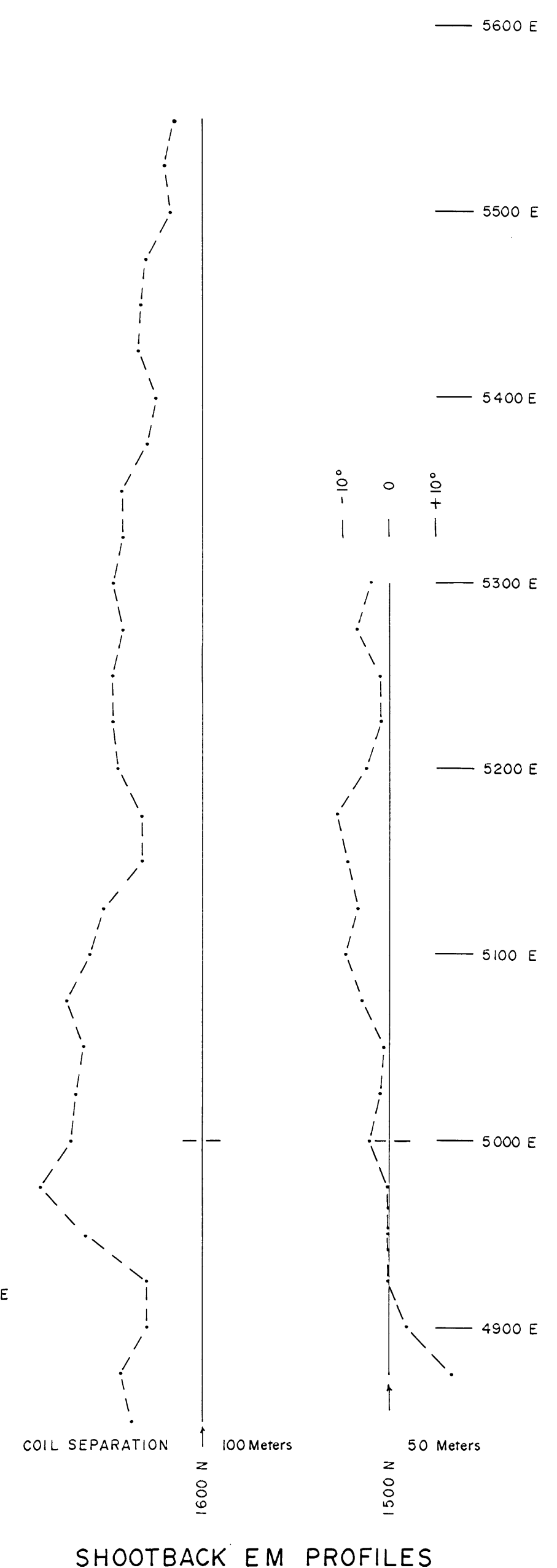
- VERT. LOOP EM PROFILES
- CONDUCTOR AXIS (Medium, Weak, Questionable)

**Vertical Loop EM Transmitter Locations**

- 1 = 1600 N - 5025 E
- 2 = 1500 N - 5000 E
- 3 = 1500 N - 5100 E
- 4 = 1600 N - 5050 E
- 5 = 1500 N - 5075 E
- 6 = 1600 N - 5375 E
- 7 = 1700 N - 5375 E

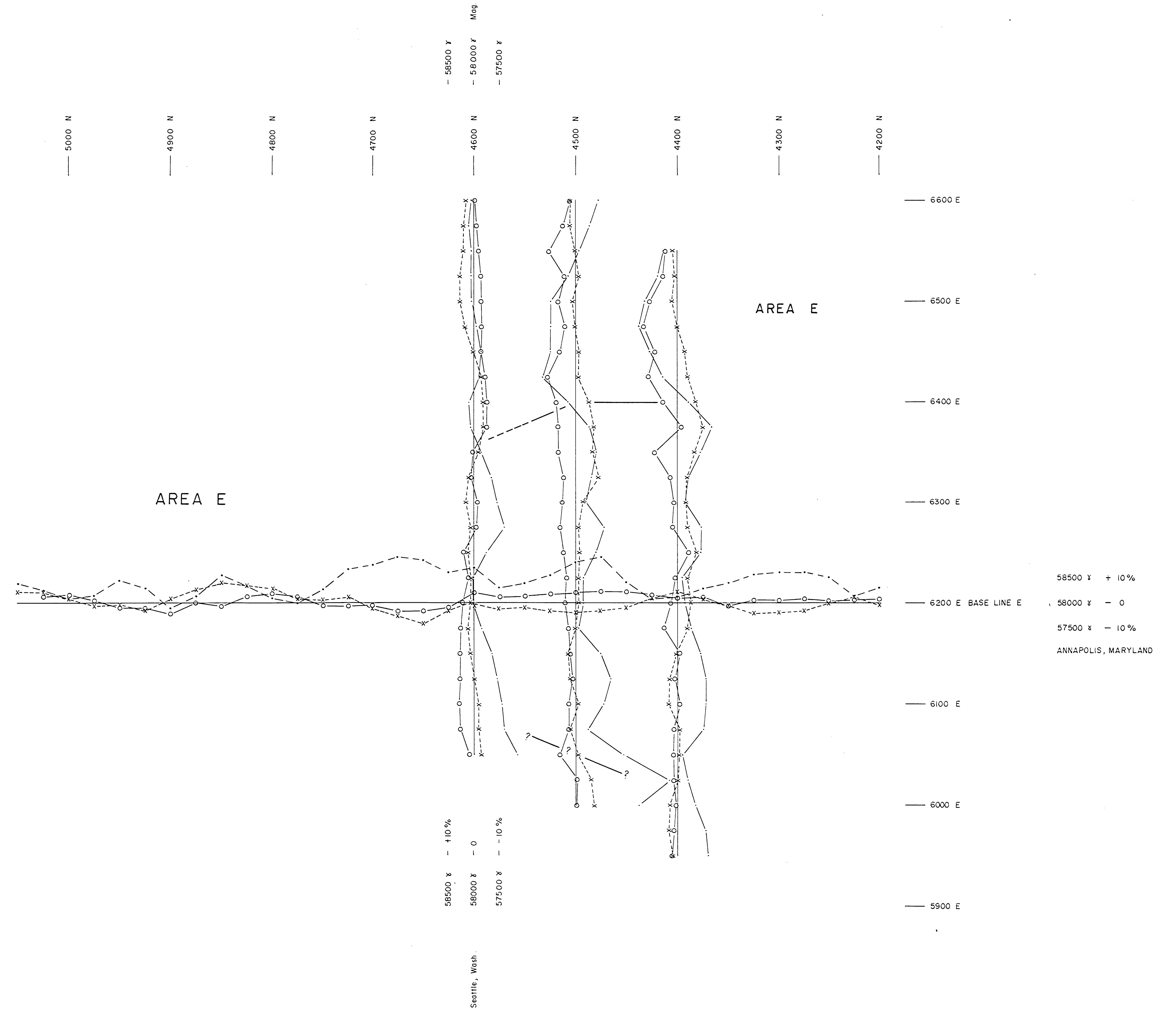
**LEGEND**

- HORIZONTAL SHOOTBACK EM PROFILE



SHOOTBACK EM PROFILES

**AREA A**  
VLF - EM, MAGNETIC & VERT. LOOP EM PROFILES  
EM - 16, G 816, CEM.



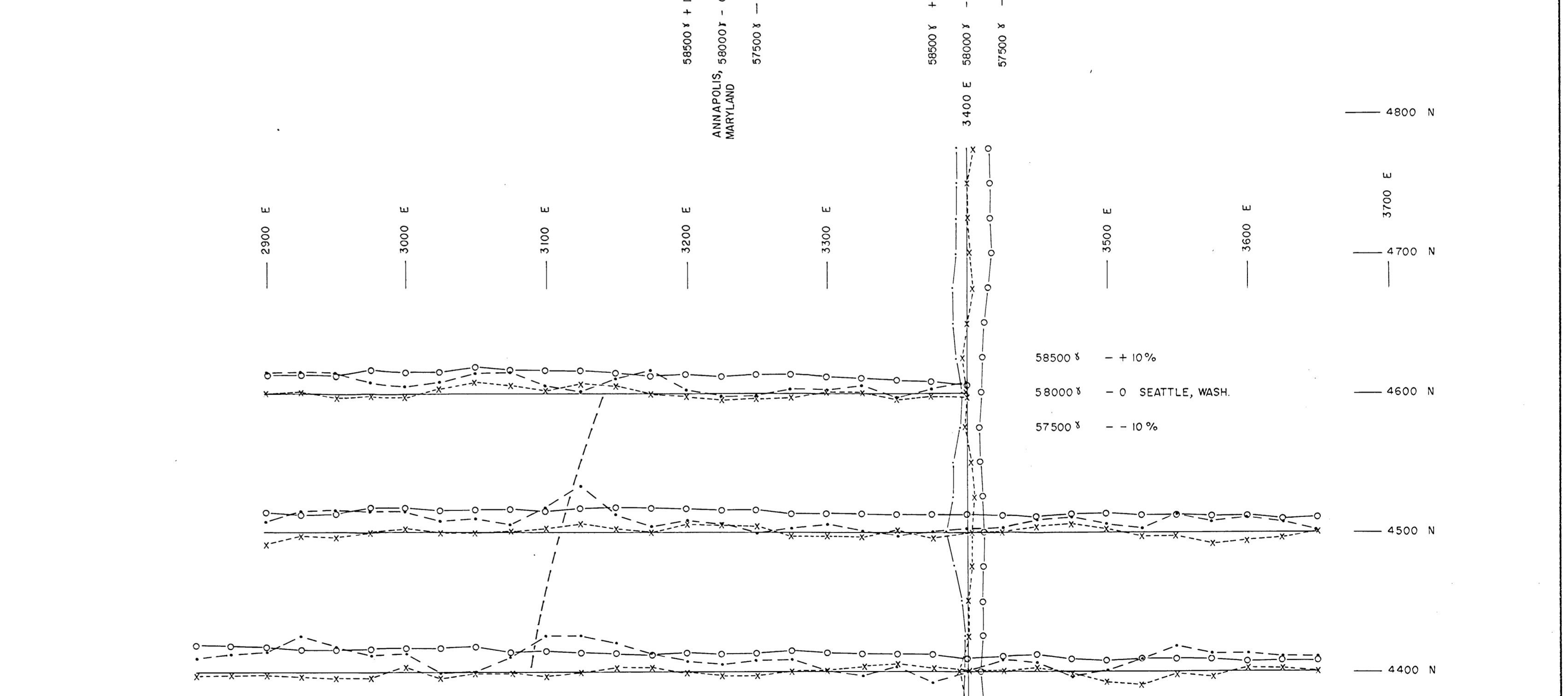
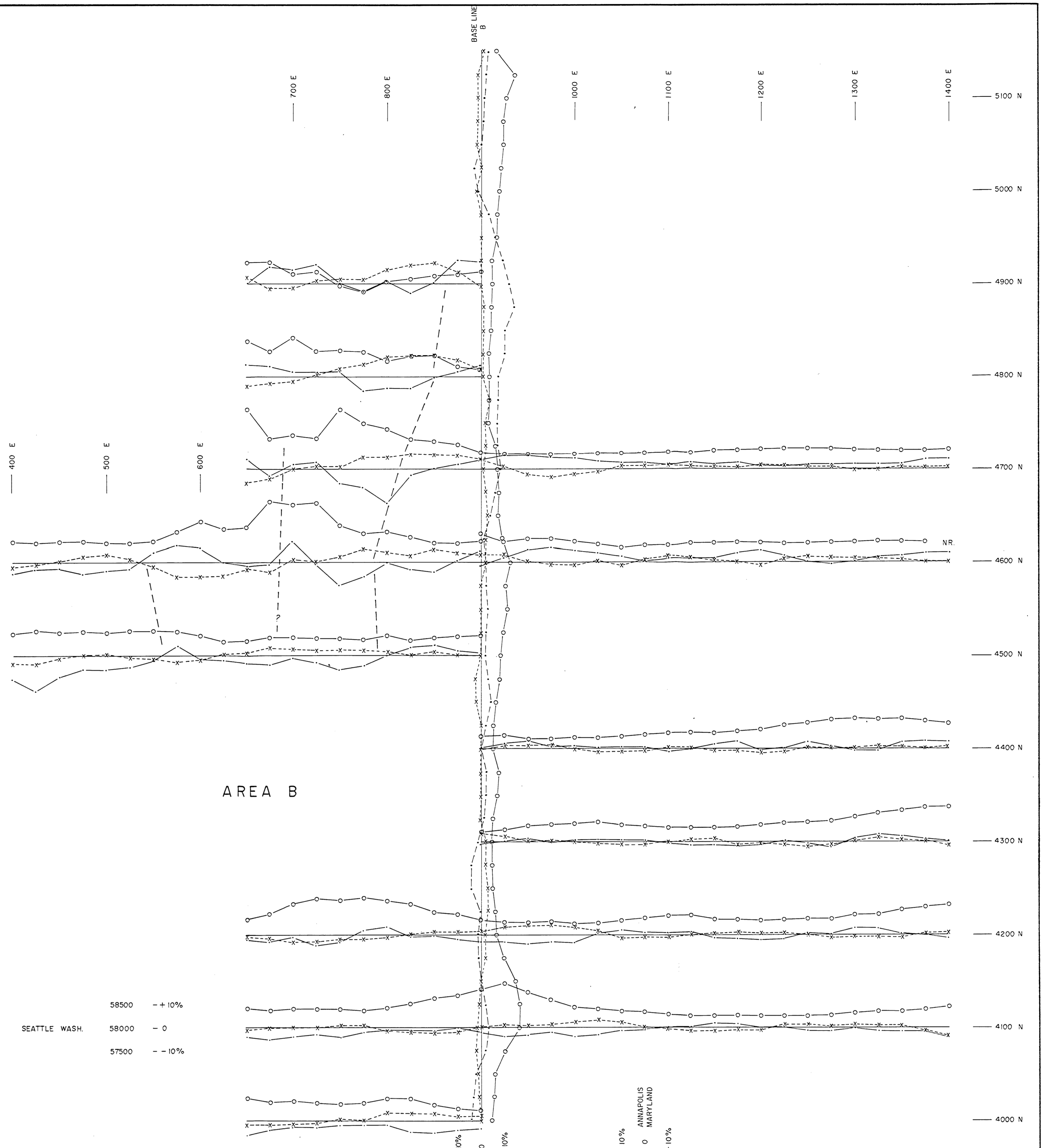
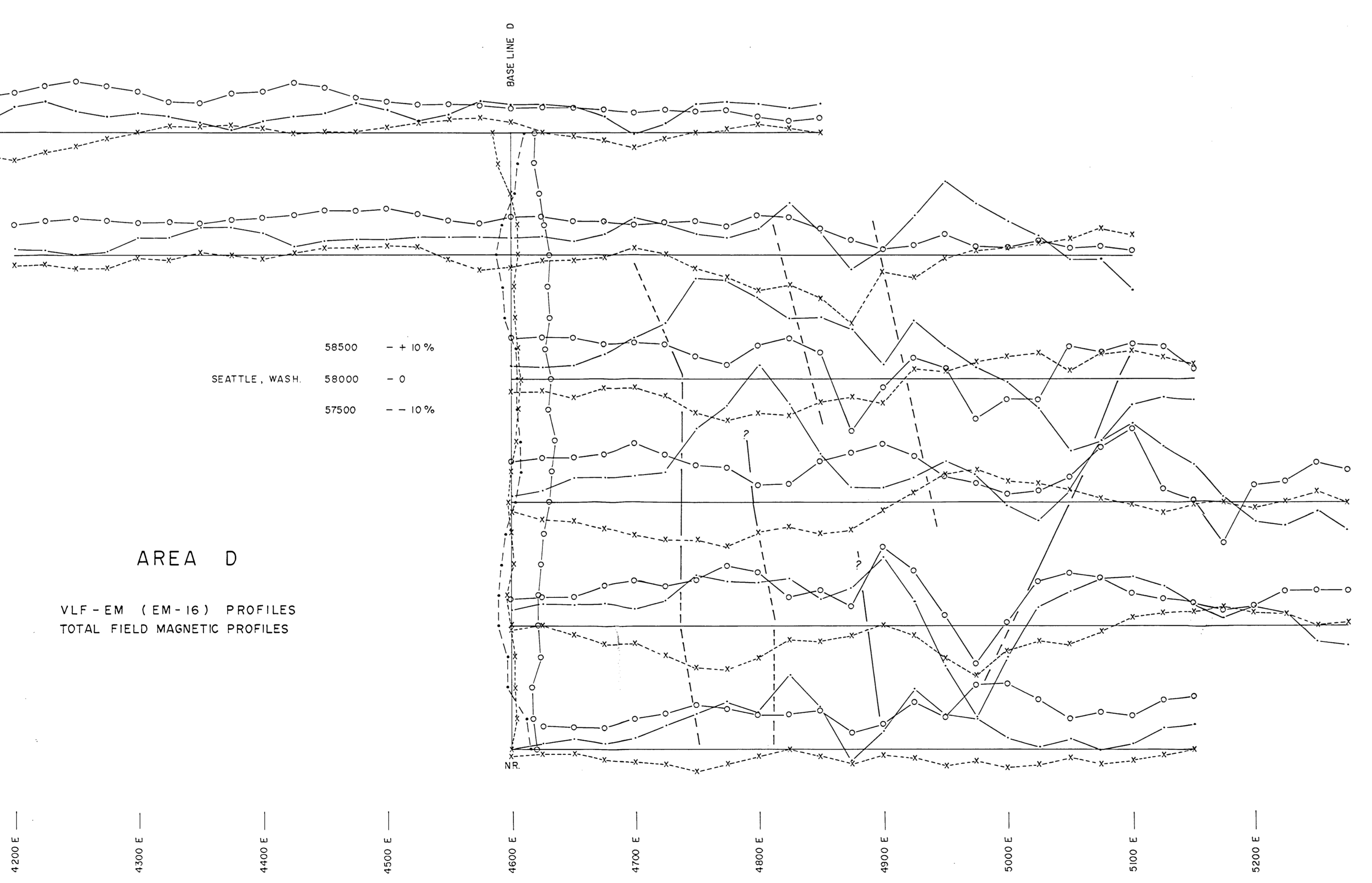
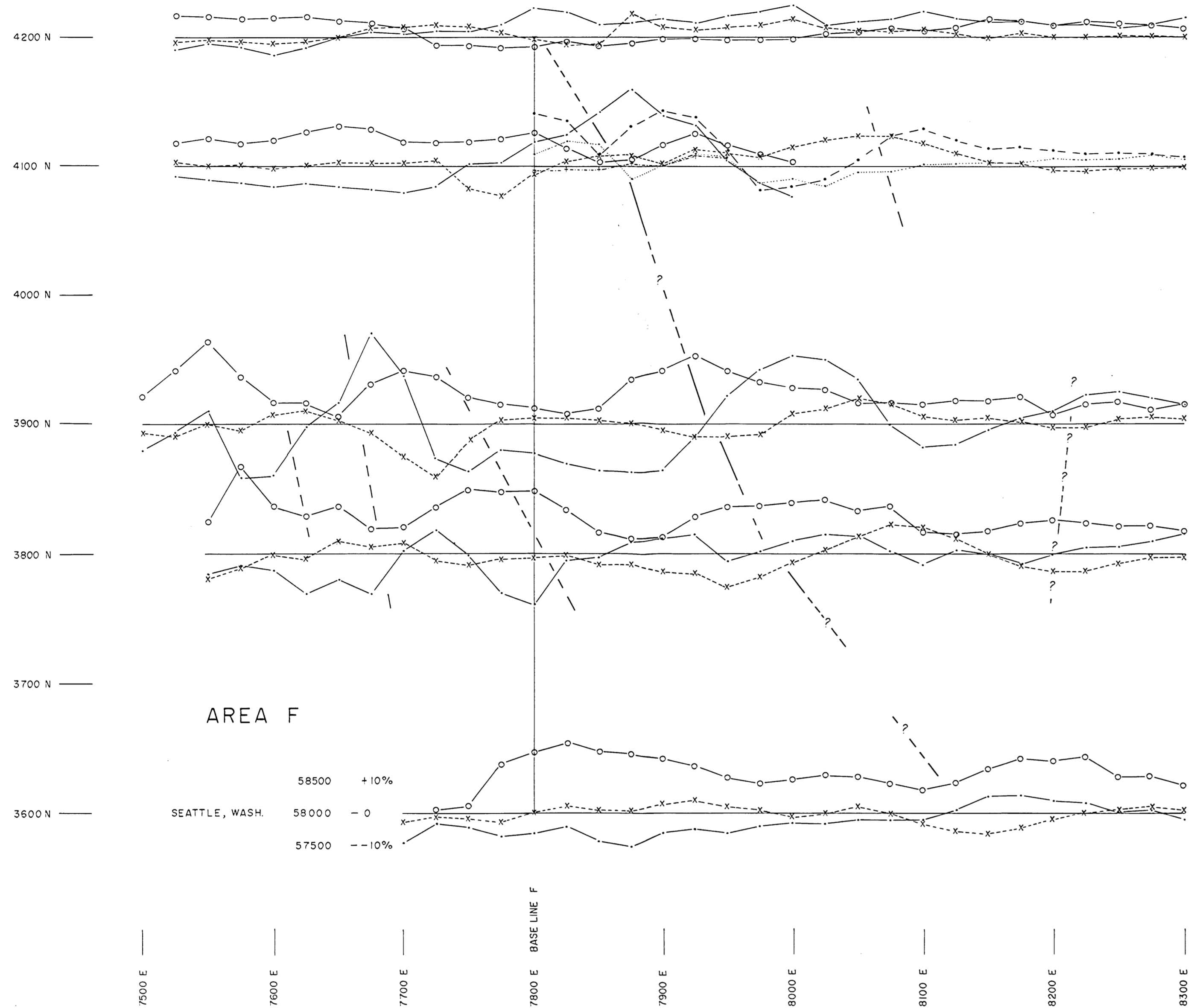
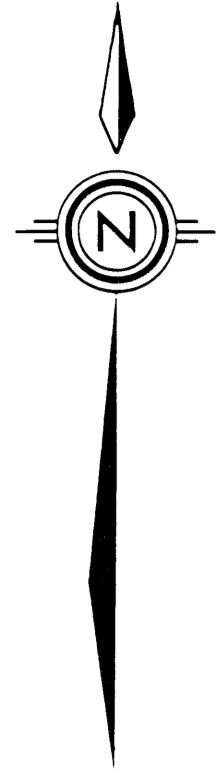
**LEGEND**

- IN-PHASE VLF - EM PROFILE (East - West Lines)
- IN-PHASE VLF - EM PROFILE (North - South Lines)
- x-x-x OUT-OF-PHASE VLF - EM PROFILE
- INTERGRATED VLF - EM CONDUCTOR AXIS (Strong, Weak)
- o---o---o TOTAL FIELD MAGNETIC PROFILE

VLF - EM SURVEY CARRIED OUT FACING WEST & SOUTH

**GEOLOGICAL BRANCH ASSESSMENT REPORT**  
**13,063**

<p>MAP SCALE</p> <p>NTS</p>		<table border="1"> <tr> <th>No</th> <th>Date</th> <th>MADE BY</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> </tr> </table>	No	Date	MADE BY	DESCRIPTION	1				2				3				4				5				<p><b>E &amp; B Explorations Inc.</b></p> <p>OFFICE: _____ DEPARTMENT: _____</p>	<p>LITTLE LAKE PROJECT</p> <p>VLF - EM</p> <p>TOTAL FIELD MAGNETIC PROFILES</p> <p>EM - 16, G - 816</p> <p>MAP INDEX NUMBER: _____ SCALE: 1:2500 DRAWING NUMBER: LL - 84 - 6</p>
No	Date	MADE BY	DESCRIPTION																									
1																												
2																												
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5																												
<p>DATE: SEPT. 84</p> <p>DRAWN BY: JvV</p> <p>CHECKED: _____ APPROVED: _____</p>																												



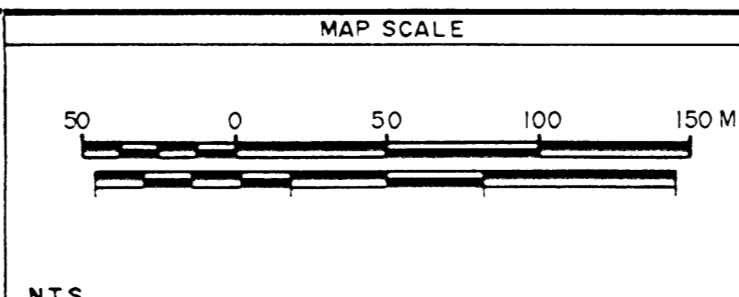
VLF - EM (EM-16) PROFILES  
TOTAL FIELD MAGNETIC PROFILES

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,063

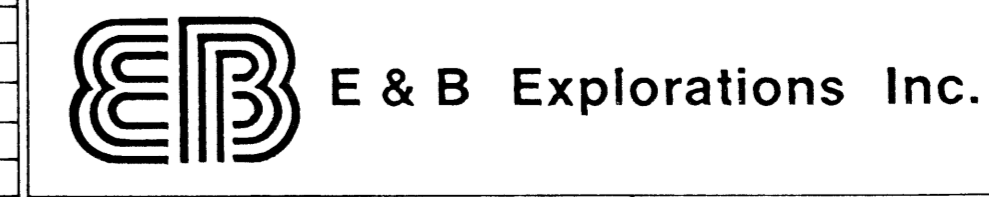
- IN-PHASE VLF - EM PROFILE (East-West Lines)
- IN-PHASE VLF - EM PROFILE (North-South Lines)
- OUT-OF-PHASE VLF - EM PROFILE
- INTEGRATED VLF - EM CONDUCTOR AXIS (STRONG, WEAK)
- TOTAL FIELD MAGNETIC PROFILE

VLF - EM SURVEY CARRIED OUT  
WEST AND SOUTH



REV.	DATE	MADE BY	DESCRIPTION
1			
2			
3			
4			
5			

DATE	DRAWN BY	CHECKED	APPROVED
SEPT. 84	JwV		



LITTLE LAKE PROJECT	
VLF - EM TOTAL FIELD MAGNETIC PROFILES EM - 16, G - 816	
MAP INDEX NUMBER	DRAWING NUMBER
SCALE	
1:2500	LL - 84 - 7