

87-115-15879  
3/88

**EZEKIEL EXPLORATIONS LIMITED**  
**Geology, Geochemistry and Geophysics**  
Report on the  
**G NORTH PROPERTY**  
Cariboo Mining Division  
NTS 93J/14 E, W

15,879

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

March 1987

**CLAIMS**

Claim Name	Units	Record No.	Anniversary
GNorth 1	12	3310	April 7
GN 2	20	3311	April 7
GN 6	20	3315	April 7
GN 7	20	3316	April 7
GN 11	20	6866	June 14
GN 12	20	3321	April 7
GN 14	20	3323	April 7
GN 16	20	3965	August 26
GN 17	20	3966	August 26
GN 19	6	5877	March 19

FILMED

**Location:** 54°56' N. Lat., 123°18' W. Long.

**Owner:** Ezekiel Explorations Ltd.

**Operator:** Ezekiel Explorations Ltd.

**Geologist:** L. Holmgren, B.Sc.  
J.M. Kowalchuk, B.Sc.

**SUMMARY**

The G-North property is a gold prospect located in north-central British Columbia. During the 1986 field program ground magnetic surveys, soil sampling, heavy mineral concentrate sampling, and rock sampling were carried out to locate zones of potential gold mineralization.

The results of the 1986 program show scattered anomalous gold values associated with magnetic lows on surface. Anomalous gold values were found in heavy mineral samples, soil samples and rock samples collected in the Garnet Red Creek-Bonnington Creek area. A magnetic low with associated gold values in soils in the Reed Creek area is on strike with a previously delineated VLF-EM conductor with associated gold values in a cataclastic limestone.

Additional geophysics and diamond drilling is recommended.

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## G NORTH PROPERTY

### Cariboo Mining Division

#### 1. INTRODUCTION

The G North property is a gold prospect located 48 km southwest of Mackenzie in north-central British Columbia. The property was staked following a regional geochemical survey undertaken by the A.T. Syndicate in 1980. Ezekiel Explorations Ltd. optioned the property from the A.T. Syndicate in 1981.

Field work, consisting of geophysical and geochemical surveys, was carried out by a four person crew working from two fly camps on the property from June 20 to October 15, 1986. The purpose of this work was to locate on surface airborne magnetic lows and to investigate their potential for gold mineralization.

Field work was directed by L. Holmgren under the supervision of J.M. Kowalchuk.

#### 1.1 Location and Access

The G North property is located on the McDougall River 48 km southwest of Mackenzie in the Cariboo Mining Division of north-central British Columbia (Figure 1). The claims cover an area of 90<sup>2</sup> km and are centered at 54°56'N and 123°18'W.

Access to the property is by helicopter from Mackenzie or Prince George. A good gravel road running from McLeod Lake to Carp Lake Provincial Park intersects the southeast corner of the property. The McLeod River situated between this road and the property presently restricts use of this road for access. A heavily overgrown road also comes in from McLeod Lake and runs through the northern portion of the claim area. This road has seen little use since its construction in the early 1930's and would require several days of clearing by bulldozer to make it passable.

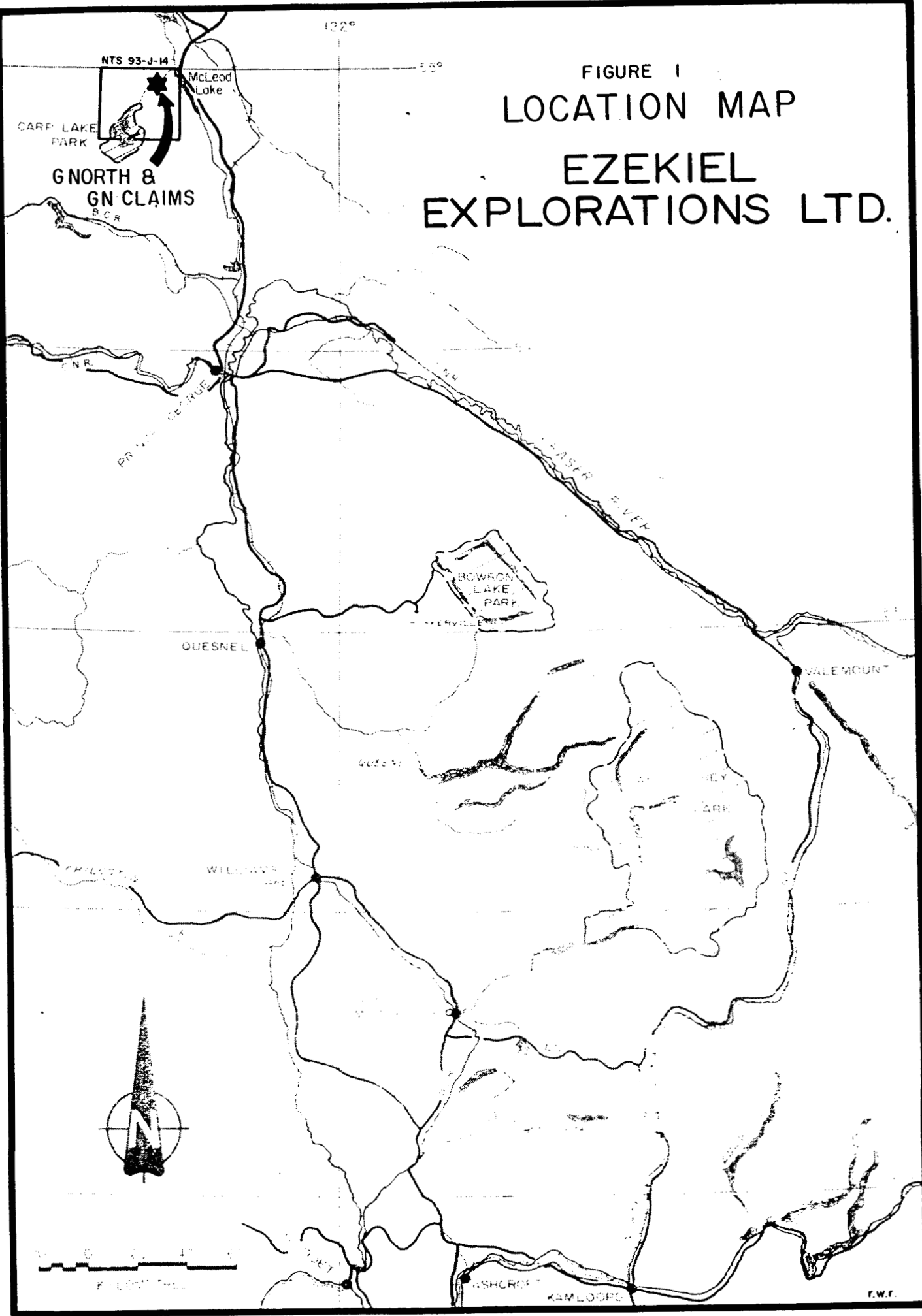
#### 1.2 Physiography

The property is located on the Nechako Plateau, just west of the Rocky Mountain Trench. Much of the claim area lies on glacially deposited material in an area of low topographic relief. Maximum relief is about 1500 ft (457 m); the highest elevation on the property is 4150 ft (1265m). Drumlins and eskers striking northeast are abundant on the eastern half of the property. Most of the property is drained by the McDougall River which flows into the McLeod River on the eastern edge of the property. Numerous small creeks flow north-northwest and northeast across the property into the McDougall River. A few

shallow, swampy lakes present in the southeast and southwest corners of the property are the result of glaciation and beaver activity.

Much of the claim area is covered with buckbrush and second growth. Only the eastern portion of the property is bush free. Thick growths of alder, devil's club and wild rose are found along many of the creeks. Trees are small to medium sized, consisting of fir, spruce, balsam and pine.

FIGURE 1  
LOCATION MAP  
EZEKIEL  
EXPLORATIONS LTD.



### 1.3 Claim Information

The claims are all located within the Cariboo Mining Division and consist of 14 modified grid claims (248 units, Figure 2). Claim information is listed in Table 1.

Mineral claims G NORTH 1 and GN 2-15 were staked by Mark Management Ltd. for the A.T. Syndicate and then optioned to Ezekiel Explorations Ltd. GN 16-19 were later staked by Ezekiel Explorations Ltd.

**TABLE 1**  
**CLAIMS STATUS**

Claim Name	Units	Record No.	Anniversary
GNorth 1	12	3310	April 7
GN 2	20	3311	April 7
GN 3	20	3312	April 7
GN 4	10	3313	April 7
GN 6	20	3315	April 7
GN 7	20	3316	April 7
GN 8	20	3317	April 7
GN 9	20	3318	April 7
GN 11	20	6866	June 14
GN 12	20	3321	April 7
GN 14	20	3323	April 7
GN 16	20	3965	August 26
GN 17	20	3966	August 26
GN 18	20	4067	September 30
GN 19	6	5877	March 19

### 1.4 HISTORY

In 1933 and 1934, the McDougall River area was extensively worked by Cariboo Northern Development Co. Ltd. and Northern Reef Gold Mines Ltd. These two companies held much of the mineralized ground east of the Reed Creek-McDougall River confluence. In 1933, Cariboo Northern Development tested their property and obtained encouraging results. The company manager reported that several low gravel benches ran as high as \$3.15 per yard (1933) with yardage ranging from 2 to 13 yards.

Fourteen random surface samples taken from zones other than quartz veins assayed as much as \$3.60 per ton in gold with all the concentrates carrying assayable platinum concentrations.

In 1934, Northern Reef Gold Mines continued the work begun by Cariboo. Additional work included the construction of a 16-mile (26 km) tractor

trail from McLeod Lake, ditch and dam construction, and underground workings. A 52-foot adit with a 28-foot winze at the end of it was driven in 10 feet above the river. These underground workings were done over a large quartz showing which outcrops close to the north bank of the river. Placer testing was carried out in 1934 at four points adjacent to the river with results averaging \$1.87 (1934) per cubic yard. Hydraulic mining started early in 1935 but the operation was apparently short-lived, since only a small amount of ground was worked.

The property was explored by Ezekiel Explorations Ltd. in 1981 and 1983. During these periods, heavy mineral sampling, reconnaissance (1:50,000) and detailed (1:10,000) geological mapping, detailed rock and soil sampling and detailed VLF Em-16 surveys were carried out over the property to delineate areas of potential gold mineralization.

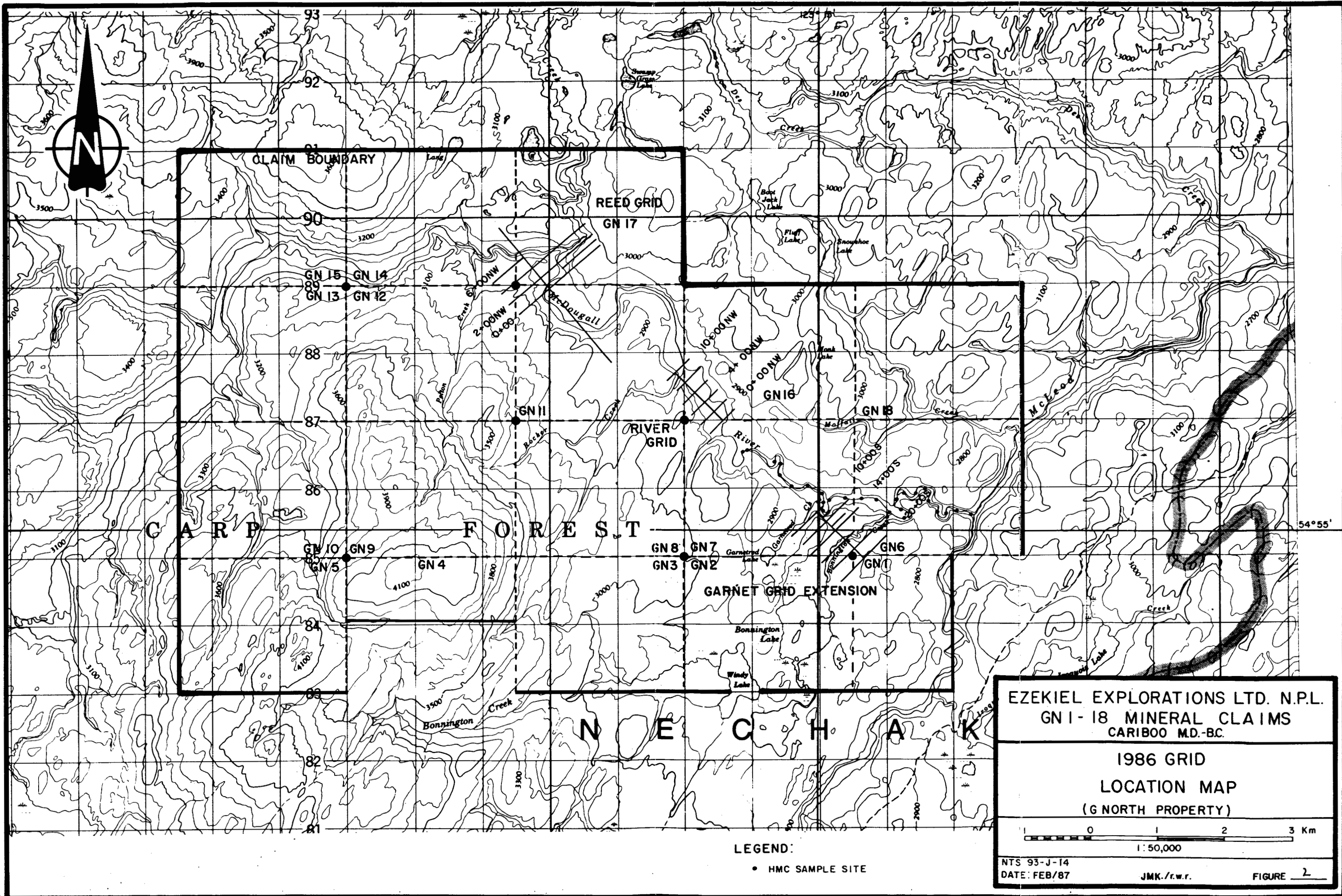
In 1985, a helicopter borne Input-Em and magnetometer survey was flown over the property.

#### **1.5 1986 FIELD PROGRAM**

The following field work was completed on the G North property by Ezekiel Explorations Ltd. during the period June 20 to October 15, 1986:

1. Detailed magnetometer surveys were carried out over three grids on the property to locate and define on the ground magnetic lows obtained from the airborne magnetic survey.
2. Detailed soil sampling was carried out at 25 metre intervals on or near magnetic lows delineated by the ground magnetic survey on all of the three grids.
3. Bonnington Creek was resampled at 250 metre intervals with heavy mineral concentrates collected for analysis as samples collected in 1984 were incorrectly analyzed as stream sediment samples.
4. A day was spent mapping along the MacDougall River, from just north of Garnet Red Creek to Bonnington Creek. Several rock samples and soil samples were collected.





EZEKIEL EXPLORATIONS LTD. N.P.L.  
 GN 1- 18 MINERAL CLAIMS  
 CARIBOO MD.-BC.

1986 GRID  
 LOCATION MAP  
 (G NORTH PROPERTY)

0 1 2 3 Km  
 1: 50,000

NTS 93-J-14  
 DATE: FEB/87

JMK./r.w.r. FIGURE 2

LEGEND:  
 • HMC SAMPLE SITE

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,879**

## 2. GEOLOGY

### 2.1 General Geology

Geologic mapping of this area was undertaken in 1946 by Armstrong, Tipper and Hoadley of the Geological Survey of Canada. The work was completed by Tipper in 1961 and the data was compiled as map 1204A (Figure 3). This map shows the claims to be underlain by a variety of lithologies. The western third of the property is underlain by rocks of the Wolverine Metamorphic Complex of unknown age, while the eastern third of the property is underlain by Triassic-Jurassic Takla Group volcanics and Mississippian Slide Mountain Group sediments. The centre of the property is till covered and devoid of outcrop.

In 1981, reconnaissance mapping of the entire property was carried out at a scale of 1:50,000. Detailed mapping at a scale of 1:10,000 was also carried out along river cuts over the eastern end of the property. Mapping was hindered by a thick blanket of Quaternary till and gravel that covers most of the area. Over much of the property rock exposures occur only on ridge tops and along river and creek bottoms. In 1983, detailed mapping at a scale of 1:1,000 was carried out along the McDougall River to delineate faults, shear zones and silicified areas which may be the controlling factors for gold mineralization on the property. In 1984, geologic mapping was carried out on all grids where bedrock is exposed.

### 2.2 Property Geology

The Wolverine Metamorphic Complex outcrops over much of the western third of the property. This unit is comprised of granitoid gneiss, garnetiferous gneiss, micaceous garnetiferous schist, pegmatite and quartzite. Large and often angular blocks of granodiorite float are found in many locations but are not seen in outcrop.

Many of the gneisses and schists are mafic rich approaching amphibolite. Garnets found in the gneisses and schists are of the almandine type and occur as euhedral crystals up to 1 cm in size. Depletion haloes are sometimes seen around the garnets. All schists and gneisses are well foliated with the exception of the granitoid gneiss where the foliation is often masked by the granite texture. The foliation may be locally contorted but generally strikes northeast and dips steeply to the east. Four sets of quartz veins are found in the gneisses. Three are pre-metamorphism and have been deformed by shearing and folding. The fourth is post-metamorphism and lacks deformation. Veins of this set strike  $020^{\circ}$  and dip  $60^{\circ}$  W.

The Wolverine Metamorphic Complex was previously believed to be overlain by the Slide Mountain Group sediments, with the Takla Group volcanics thrust faulted over the sediments. Since the contacts observed between the sediments and the volcanics appear to be gradational and not thrust faulted, it is probable that the previously named Slide Mountain Group sediments are actually a part of the Slocan-King Salmon Group. To the south, the Slocan -King Salmon

group is found immediately beneath the Takla Group volcanics. It is likely that it could extend northwards on to the G North property rather than pinching out as shown on G.S.C. Map 1204A.

The sediments and volcanics appear to have been deposited as a continuous sequence as observed in river cuts along the McDougall River. The Slocan-King Salmon Group rocks are comprised of limestone, argillite, siltstone, silty conglomerate and mudstone. The argillite is a black, pyritiferous and locally graphitic rock often exposed as loose broken slabs and faces. The siltstones and mudstones are a competent, often laminated rock varying in colour from dark grey to light green. The Takla volcanics are a monotonous sequence of olive green andesites and are generally unaltered and unweathered. The andesites are locally tuffaceous and appear interlaminated with the siltstone or mudstone. Occasionally, these rocks display spots and where cut by quartz and calcite veinlets may be stained rusty brown.

This sequence of rocks has undergone several intrusive episodes, resulting in andesite to rhyolite to felsic intrusive dykes cross-cutting all rock types on the property. Multiple fracturing, faulting and shearing events accompany the intrusive episodes.

Rusty quartz, quartz-calcite and calcite veins are found cross-cutting all the sedimentary rocks. The veins display no preferred orientation but usually follow two of the three local fracture directions. The calcite is usually milk white but occasionally is stained rusty brown. It frequently appears as euhedral crystals lining fracture walls or as a matrix surrounding brecciated rock fragments along faults and shear zones.

An outcrop of foliated cataclastic limestone was found proximal to a northwest-southeast trending VLF conductor. The limestone shows pervasive iron staining and strong foliation which parallels the conductor (135°). A mylonitic fabric observed in thin section suggest that the limestone has been sheared. The outcrop stops at a small dried up creek. A one inch crust of iron-manganese oxide occurs in the creek bed for 100 metres to the north and 100 metres to the south of the exposure. A well defined siliceous and phyllitic alteration zone occurs in the eastern half of the limestone, towards the aforementioned creek.

123° 30'

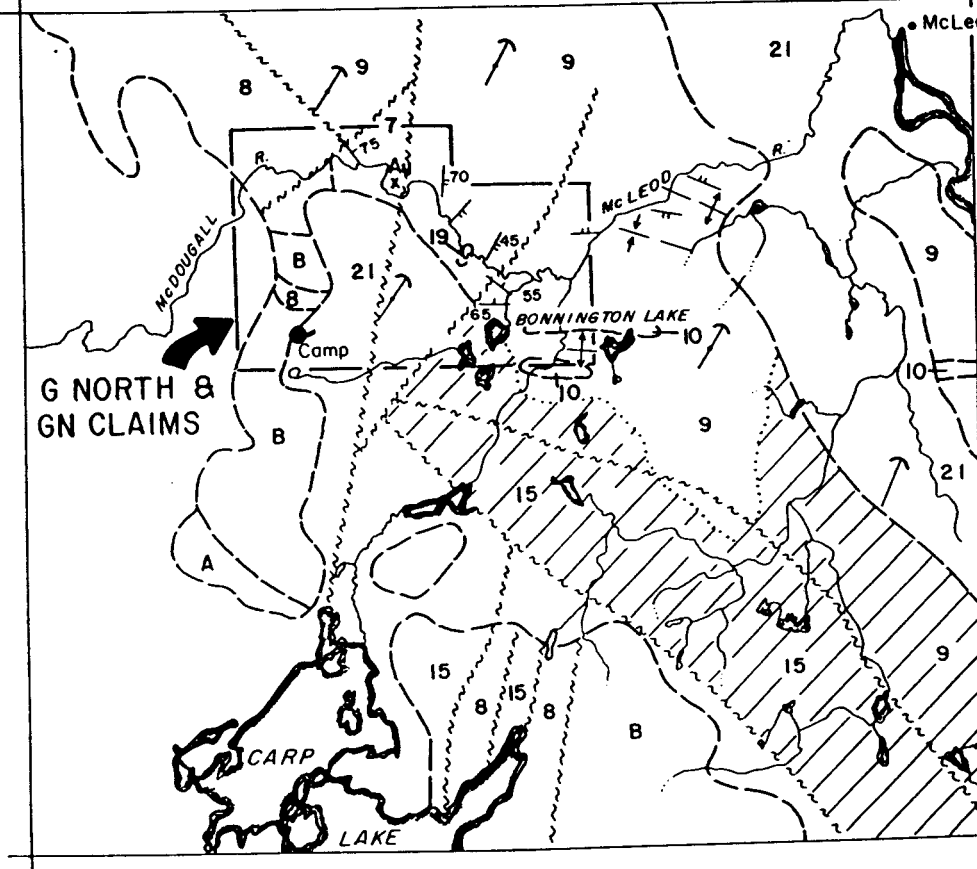
123° 00'

55° 00'

McLeod Lake



G NORTH & GN CLAIMS



CENOZOIC  
QUATERNARY  
21  
19

Till, gravel, silt, clay, silt

Conglomerate, sandstone, mudstone, lignite  
19a may be older than 18

MESOZOIC  
TRIASSIC AND/OR JURASSIC  
UPPER TRIASSIC AND/OR LOWER JURASSIC  
TARNA GROUP  
15

Andesitic and basaltic flows, tuffs, breccias  
15a conglomerate, graywacke, argillite, limestone

PALEOZOIC  
SLIDE MOUNTAIN GROUP (9, 10)  
9 10  
CAMBRIAN AND/OR LATER  
LOWER CAMBRIAN AND/OR LATER  
(ARBOUR GROUP) (7, 8)  
7 8

10 Limestone  
9 Basaltic pillow lavas, andesite related pyroclastic rocks, argillite, chert, graywacke

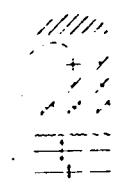
6 SHOALSHOE FORMATION(?) grey micaceous quartzite, shaly quartzite, phyllite, includes minor pegmatite of A  
7 MARS FORMATION(?) blue quartzite, phyllite, argillite

WOLVERINE COMPLEX  
A  
B

Granodiorite, granite, pegmatite

Granitoid gneiss, micaeous, garnetiferous chloritic schists, pegmatite and small bodies of granodiorite, minor feldspathized quartzite

Areas interpreted from aeromagnetic maps  
Geological boundary approximate assumed  
Bedding tops shown horizontal unless  
Bedding tops shown inclined with a  
Schistosity, gneissosity inclined with a  
Fault (defined approximate assumed)  
Anticline (defined approximate)  
Syncline (defined approximate)



Drumlin (direction of ice movement shown)

Mineral occurrence



EZEKIEL EXPLORATIONS LTD.

REGIONAL GEOLOGY MAP

G NORTH & GN CLAIMS

After GSC Map 1204 A

Scale 1:253,440

L.D./r.w.r.

DEC., 83

FIGURE 3

NTS 93-J-14

### 2.3 Mineralization

Pyrite is the most common sulphide found on the G North property. It occurs as fine disseminations in almost all rock types and as blebs and cubes up to 1.5 cm in the siltstone and argillite units. Two one metre wide quartz veins were encountered in different locations on the property. One contained pyrite, malachite and chalcopyrite; the other had abundant pyrite as smears, fracture-fillings and radiating crystals (marcasite?), as well as minor malachite, chalcopyrite and bornite.

Varying amounts of gold were obtained in a number of panned concentrates taken along the eastern six km of the McDougall River and along Bonnington Creek. Although much of the gold is very fine, most of the coarse pieces are wiry or angular suggesting a local source.

Low gold and silver values were obtained from the cataclastic limestone, from quartz veining in graphitic argillite and from a chloritic andesite.

### 3. GEOPHYSICS

#### 3.1 Instrument Techniques and Instrument Performance

The magnetometer survey was conducted over all of the grids using a GEM Systems Model GSM-8 Magnetometer. Readings were taken facing N/NW every 25 metres on the survey line. The raw data was corrected for diurnal variations using a plot of the change of magnetometer readings, taken at three control locations, against time. These control points were checked approximately every two hours.

The magnetic readings over all three grids was quite noisy. Difficulties in repeating magnetic readings at base stations were common. Magnetic storms were first thought to be the problem, however, instrument failure now appears to be the cause of noisy readings. Regardless of the noise problem certain magnetic trends can be observed and will be discussed.

The VLF-EM survey was conducted over the three grids using a Geonics EM-16. Readings were taken facing N80°E every 25 metres along the grid lines. Seattle, Washington (NLK-24.8 khz) was used as the transmitter station.

The VLF-EM results were plotted as both profiles of the in-phase and quadrature readings and contours of the in-phase data, filtered using a technique developed by D.C. Fraser (1969).

#### 3.2 Survey Techniques and Discussion of Data Results

##### 3.2.1 Garnet Grid Extension

During the 1986 field season, the garnet grid was put in utilizing the existing baseline from the 1984 GN 4 geophysical grid. The baseline was cut and flagged at 315°, chained at 25 metre intervals, and extended from 10+00 SE to 20+00 SE. Cross-lines were turned off the baseline at 200 metre intervals and extended from 5+00 SW to 5+00 NE. These lines were hipchained, with stations every 25 metres marked with orange flagging tape. A total of 4.8 line kilometres of grid was located.

The magnetic response over this grid is quite flat with the maximum range of readings between 58390 and 58791 gammas. The magnetic profiles are plotted on **Figures 8** and the contoured magnetics are plotted on **Figure 7**. No good magnetic trends were recognized.

The raw and filtered VLF-EM-16 data are plotted on **Figures 9** and **10**. A strong conductor cuts across the grid from line 18+00 SE; 4+00 SW through 16+00 SE; 2+00 SW to 14+00 SE; 2+00 NW. This cuts off a linear conductor generally following stations 2+00 NW, north of line 14+00 SE. The linear conductor has a reversed quadrature suggesting a possible sulphide body.

### 3.2.2 River Grid

The baseline at the River grid was extended from 0+00 to 10+00 NW at a bearing of 315°. The baseline was cut and chained, with stations flagged every 25 metres. Cross-lines were put in every 200 metres and extended from 3+00 SW to 3+00 NE, with the exception of L10+00 and L8+00, which extended from 2+00 SW to 4+00 NE. The cross-lines were put in with a compass and hipchain, with stations marked at 25 metre intervals with orange flagging. A total of 3.6 line kilometres of grid was completed.

Magnetic readings over the property range from 58349 to 53687 gammas. The magnetic profiles and contours are plotted on **Figures 13 and 14**. The total grid has a magnetic flux of about 58500 gammas and lower. Southwest of the baseline a few narrow zones (greater than 58550 gammas) run sub-parallel to the baseline. A narrow zone of similar magnitude runs northeast and parallel to the baseline. These magnetic "highs" possibly represent magnetite bearing dykes.

The raw and filtered VLF-EM data are plotted on **Figures 15 and 16**. A long linear conductor runs parallel to the McDougall River, about 200 meters west of the river bank. This conductor has been caused by topography since it occurs at a severe break in slope down into the river valley.

### 3.2.3 Reed Grid

The Reed grid was located utilizing the existing baseline from the 1984 GN 11 grid. The baseline, which trends 315°, was already in place, with stations marked at 25 metre intervals. Cross-lines were put in at 200 metre intervals between 6+00 NW and 0+00, and extended from 6+00 SW to 0+00. Lines 2+00 NW and 0+00 were put in from 0+00 to 10+00 NE. All lines were surveyed in using a compass and hipchain, with stations marked at 25 metre intervals. A total of 6.1 line kilometres of magnetometer data was collected.

The corrected magnetic data is plotted, as contours and profiles, on **Figures 21 and 22**. The magnetic values range from 57983 to 58533 gammas. Two areas of low magnetic flux (greater than 58350 gammas) lie at both ends of the grid. The two lows trend northwest to southeast.

The VLF-EM raw data and Fraser Filtered data are plotted on **Figures 23 and 24**. Three weak conductors are located along stations 2+00 E, 4+00 E and 9+00 E across line 0+00 NW to 2+00 NW. A weak coincidence between VLF-EM conductors and low magnetics occurs.



## 4.0 GEOCHEMISTRY

### 4.1 Sampling Techniques and Analytical Procedures

A total of 726 soil samples were collected at 25 metre intervals along survey lines on or near magnetic lows delineated by the ground magnetic survey and/or the airborne magnetic survey on the 1986 geophysical grids. The samples were collected from the "B" horizon at depths between 10 to 25 cm, using a mattock. The samples were placed into numbered Kraft sample bags and shipped to Chemex Laboratories in North Vancouver, B.C. and VanGeochem Laboratories also in North Vancouver, B.C.

All soil samples were dried at approximately 60°C and then sieved to minus 80 mesh. A 0.5 gram portion of each sample was extracted by digestion with nitric acid aqua regia followed by 31 element ICP analysis. Gold values were determined by atomic absorption (AA) methods. Sample locations are shown for the Garnet grid, the River grid, and the Reed grid on **Figures 4, 11, and 18**. Analytical results are given in **Appendix A**.

### 4.2 Presentation and Discussion of Results

#### 4.2.1 Garnet Grid

The gold and silver results are plotted on **Figures 5** and the arsenic, copper, zinc results are plotted on **Figures 6**.

Anomalous values for the various elements are: gold, 10 ppb; silver, 0.5 ppm; arsenic, 15 ppm; copper, 40 ppm and zinc, 100 ppm.

A very strong gold, silver, arsenic, copper, zinc anomaly exists on lines 16+00 SE and 18+0 SE. The anomaly is 100 metres wide and is at least 200 metres long. It is cut by a fault suggested by the VLF-EM. The zone contains gold, up to 25 ppb; silver, up to 3.1 ppm; arsenic, up to 58 ppm; copper, up to 242 ppm and zinc up to 276 ppm. No apparent relationship to magnetics occurs.

A weak gold-copper anomaly occurs on line 10+00 SE, 1+50 NW; 11+00 SE, 2 NW; 12+00 NE, 2+25 NW, etc. Another anomaly occurs along line 12+00 NE, 5+00 NW and 14+00 NE, 5+00 NW. Weak gold anomalies also occur at the southwest ends of lines 20+0 SE and 18+00 SE.

#### 4.2.2 River Grid

The gold and silver results are plotted on **Figure 11** and the arsenic, copper, zinc results are plotted on **Figure 12**. Anomalous results for the various elements are the same as for the Garnet grid.

Weak coincident gold, copper and arsenic results form the narrow bands running from 10+00 NW, 1+00 NE to 6+00 NW, 3+00 NE. Parallel bands of weakly anomalous VLF-EM coincide with this geochemistry. Gold, up to

75 ppb; arsenic, up to 30 ppm and copper, up to 40 ppm make up this anomaly.

#### 4.2.3 Reed Grid

The gold and silver results are plotted on **Figure 19** and the arsenic, copper, zinc results are plotted on **Figure 20**. The tenor of the anomalies is much lower on this grid than the other two grids. Gold anomalies are still greater than 10 ppb; silver is 0.4 ppm; copper is 20 ppm; zinc is 100 ppm; arsenic is 100 ppm.

A narrow (50 metres) anomalous zone of gold and copper trends from line 0+00 NW, 8+00 NE to 2+00 NW, 6+00 NE. This line is bracketed by two weak VLF conductors and lies within a magnetic low.

A few anomalous gold and copper results at 2+00 NW, 1+50 SW lie within another magnetic low. No VLF-EM was done over this part of the grid.

## 5. HEAVY MINERAL CONCENTRATE SAMPLING

### 5.1 Sampling, Sample Preparation and Analytical Procedures

Heavy mineral concentrate samples were collected along Bonnington Creek in 1984, but were incorrectly analyzed as stream sediment samples. A total of 7 heavy mineral samples were collected in 1986 at 250 metre intervals. The samples were sieved in the field to minus 10 mesh, the coarse fraction discarded and the remaining fine-fraction panned down to approximately 1.0 kg. The concentrates were placed in numbered plastic sample bags and sent to Chemex Laboratories Ltd. in North Vancouver, B.C. for analysis.

In the laboratory, the samples were further concentrated by heavy liquid separation and magnetic mineral separation. The non-magnetic fraction was crushed to minus 200 mesh and analyzed for gold by atomic absorption. Samples were also analyzed by ICP for 31 elements.

### 5.2 Presentation and Discussion of Results

Sample locations are shown on **Figure 25**. Geochemical values are given in **Appendix A**. Half of the samples collected were above the detection limit of 10 ppb, with one sample containing 9600 ppb. This sample is down slope from an area where weakly anomalous gold values were obtained in soil samples, suggesting an area of potential mineralization may exist between Garnet Red Creek and Bonnington Creek south of the McDougall River.

## 6. GEOLOGICAL MAPPING

One day was spent mapping the banks of the McDougall River from north of Garnet Red Creek to south of Bonnington Creek. A total of 8 rock samples were collected adjacent to calcite veins found within the rock units. Sample locations are shown on **Figure 11**, and analytical values given in **Appendix B**. A detailed geological description of the rocks within the McDougall River is given in the report by A. Troup and L. Dandy (1983). Sampling in 1986 has reconfirmed the presence of anomalous gold values within the soils near calcite veins. This may be indicative of a mineralized system at depth.

## 7. CONCLUSIONS

Results of the 1986 field program have confirmed the potential for gold mineralization on the property.

The Garnet grid contains a strong multi-element soil geochemical anomaly which is weakly coincident with VLF-EM conductors. Other narrow copper-gold zones coincide with VLF-EM. No significant magnetic response was noted. This zone has the potential for a significant gold deposit in quartz veins.

The River grid contains two narrow bands of coincident copper, arsenic, gold geochemistry with weak VLF-EM conductors all lying with a magnetic low suggests two quartz veins containing copper and gold mineralization.

The Reed grid contains a weak copper, gold anomaly coincident with weak VLF-EM conductors. This target lies within a very deep magnetic low. These targets strike into an area of geochemically anomalous carbonate altered volcanics, located in 1984.

## 8. RECOMMENDATIONS

Additional exploration consisting of geophysical surveys and trenching or diamond drilling is recommended for the property as outlined below:

1. The Bonnington Creek-Garnet Red Creek area should be investigated further. Pulse Em may locate a conductive body if it exists in this area. Once delineated, a conductor should be tested by diamond drilling.
2. The northeast section of the Reed grid should be investigated further, and its association with the sheared cataclastic limestone in the LS2 grid area (1984) should be explained. Geophysics, possibly an I.P. survey, should be carried out to delineate the extension of this zone. Diamond drilling of a conductor would then follow.
3. The magnetic surveys over the property are extremely unreliable and only the grossest features are evident. A new survey, using a base station magnetometer for diurnal corrections should be used.

## 9. COST STATEMENT

## EZEKIEL EXPLORATIONS LTD.

## G-NORTH PROPERTY

20 May - 15 October 1986

## GENERAL COSTS

## FOOD &amp; ACCOMMODATION:

20 Jun-15 Oct, 97 man  
days @ \$16.43

\$ 1,593.76

## SUPPLIES:

1,046.53

## SHIPPING &amp; POSTAGE:

239.55

## FEES &amp; LICENCES:

617.00

## RENTALS:

Kangeld 4WD Jeep, 20 Jun-6 Jul, 6-15 Oct,  
27 days @ \$43.00

\$1,161.00

Ezekiel Field Equipment, 97 man days  
@ \$6.00

582.00

Ezekiel SSB11A, 33 days @ \$11.00

363.00

## Helicom Avionics:

Generator, 1 month

580.00

Channelization & Ant.

225.17

\$ 2,911.17

## FUEL:

329.48

## HELICOPTERS:

CAPITOL 206B, 20 Jun-1 Jul, 5.4 hrs  
@ \$504.57

\$2,724.40

CAPITOL 206B, 6 Oct-14 Oct; 3.6 hrs  
@ \$513.00

1,846.80

HIGHLAND 206B, 6 Jul, 2.3 hrs  
@ \$533.30

1,226.59

\$ 5,797.79

## TELEPHONE SERVICE:

156.00

## MAINTENANCE:

344.12

## CONSULTANT FEES:

Archean Engineering

\$1,500.00

JMK Geological Services

2,145.00

3,645.00

## REPORT PREPARATION:

3,055.17

## DRAFTING:

2,311.53

## TOTAL GENERAL COSTS:

\$ 23,046.93

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## Cost Statement continued

## LINE SURVEYING &amp; CUTTING COST

## SALARIES &amp; WAGES:

4 Pers, 20 man days @ \$85.03	\$ 1,700.59
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BENEFITS: @ 20%	340.12
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## RENTALS:

Ezekiel chainsaw, 7 days @ \$30	210.00
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## GENERAL COSTS APPORTIONED:

20/97 x \$23,046.93	4,751.95
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TOTAL LINE SURVEYING & CUTTING COST:	\$ 7,002.66
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## GEOCHEMICAL SURVEY COST

## SALARIES &amp; WAGES:

3 Pers, 24 man days @ \$90.21	\$ 2,086.49
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BENEFITS: @ 20%	417.30
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## ASSAYS &amp; ANALYSES - Chemex Labs

89 Soils Au & 30 elements @ \$16.10	\$1,432.90	
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117 Soils Au & 30 elements @ \$15.25	1,784.25	
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7 Soils Au & 30 elements @ \$13.85	96.95	
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13 Rocks Au & 30 elements @ \$15.25	198.25	
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7 HMC Au & 30 elements @ \$17.00	119.00	3,631.35
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## ASSAYS &amp; ANALYSES - Vangeochem Labs

236 Soils Au & 27 element ICP @ \$12.10	2,855.60
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## GENERAL COSTS APPORTIONED:

24/97 x \$23,046.93	5,702.34
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TOTAL GEOCHEMICAL SURVEY COST:	\$ 14,693.08
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## GEOPHYSICAL SURVEY COST

## SALARIES &amp; WAGES:

3 Pers, 31 man days @ \$78.04	\$ 2,419.22
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BENEFITS: @ 20%	483.84
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## RENTALS:

Canadian Mining Geophysics, 2 mags,		
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16 Jun-15 Jul @ \$500/mo	\$1,000.00	
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1 mag, month of Oct. @ \$500.00	500.00	
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Gabriel, EM-16, 16 Jun-15 Oct, 33 days		
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@ \$27.00	891.00	2,391.00
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## GENERAL COSTS APPORTIONED:

25/97 x \$23,046.93	5,939.93
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TOTAL GEOPHYSICAL COST:	\$ 11,233.99
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## Costs Statement continued

## GEOLOGICAL MAPPING COST

## SALARIES &amp; WAGES:

4 Pers, 29 man days @ \$91.24	\$ 2,646.08
BENEFITS: @ 20%	529.22
GENERAL COSTS APPORTIONED:	
29/97 x \$20,981.10	6,890.32
	-----
TOTAL GEOLOGICAL MAPPING:	\$ 10,065.62
	=====

## TOTAL SURVEY COSTS:

LINE-CUTTING:	\$ 7,002.66
GEOCHEMICAL:	14,693.08
GEOPHYSICAL:	11,233.99
GEOLOGICAL:	10,065.62
	-----
TOTAL	\$42,995.35
	=====

**10. REFERENCES**


- Armstrong, J.E., Tipper, H.W., and Hoadley, J.W., 1946, Muller, J.E. and Tipper, H.W., 1961; Geology, McLeod Lake, British Columbia: Geological Survey of Canada, Map 1204A, scale 1:253,440.
- British Columbia Minister of Mines Annual Reports, 1933; McLeod River Area: p. A100 - A104.
- British Columbia Minister of Mines Annual Reports, 1934; McLeod River Area: P. C13 - C16.
- Troup, A. and Dandy, L., 1983; Geology, Geochemistry and Geophysics Report on the G North Property, Cariboo Mining Division, Assessment Report.
- Troup, A., Freeze, J.C., and Rublee, V.J., 1985; Geology, Geochemistry and Geophysics Report on the G North Property, Cariboo Mining Division, Assessment Report.

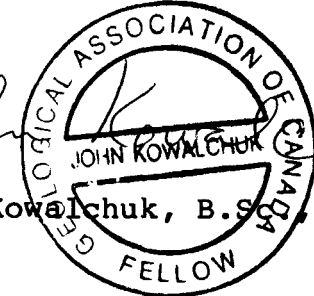
**CERTIFICATE OF QUALIFICATIONS**

**J.M. KOWALCHUK**

I, J.M. Kowalchuk, do hereby certify that:

1. I am a geologist and reside at 3086 Mariner Way, Coquitlam British Columbia.
2. I am a graduate of McMaster University in Hamilton, Ontario with a B.Sc. in Geology (1970).
3. I have practiced my profession continuously in British Columbia and across Canada since 1970.
4. I am a Fellow of the Geological Association of Canada.
5. I have personally supervised the 1986 program and take full responsibility for the results.
6. To the best of my knowledge, the information as stated in this report is correct.

  
John Kowalchuk, B.Sc., F.G.A.C.



The seal is circular with the text "GEOLOGICAL ASSOCIATION OF CANADA" around the top inner edge and "FELLOW" at the bottom. In the center, the name "JOHN KOWALCHUK" is printed.

## STATEMENT OF QUALIFICATIONS

L.D. HOLMGREN

### ACADEMIC:

1982      B.Sc. Geology (Honours)                      University of B.C.

### PRACTICAL:

May - August 1986	Hughes-Lang Group	Project Geologist, Quesnel area, B.C.
May - October 1986	Rio Algom Expl. Inc.	Geologist, Central and South Central, B.C.
May - September 1984 Southern B.C.	Rio Algom Expl. Inc.	Geologist,
May - September 1983	DuPont of Canada Expl	Geologist, Swift River, Y.T.
May - October 1982	DuPont of Canada Expl	Geologist, Newfoundland
June - August 1981	DuPont of Canada Expl	Senior Geological Assistant, North, ern B.C.
May - August 1980	DuPont of Canada Expl	Junior Geological Assistant, North- ern B.C. and the Yukon.

**Appendix A: Soil Sample Results**



# 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

Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. # : A8614404-001-A  
INVOICE # : I8614404  
DATE : 27-AUG-86  
P.O. # : NONE  
NORTH EZEKIEL

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, U and V can only be considered as semi-quantitative.

COMMENTS :

Sample description	Au ppb FA+AA	Al Z	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca Z	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe Z	Ga ppm	K Z	La ppm	Mg Z	Mn ppm	Mo ppm	Na Z	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti Z	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
GN-86-001	<5	1.72	0.2	<10	150	<0.5	<2	0.30	<0.5	6	35	13	2.98	<10	0.04	10	0.35	247	<1	<0.01	17	1600	6	<10	21	0.09	<10	<10	58	<10	90	--
GN-86-002	<5	1.03	0.2	<10	150	<0.5	<2	0.24	<0.5	3	22	10	2.13	<10	0.02	10	0.20	195	<1	<0.01	10	710	2	<10	21	0.09	<10	<10	56	<10	40	--
GN-86-003	<5	1.22	0.8	<10	150	<0.5	<2	0.28	<0.5	5	26	15	2.21	<10	0.04	10	0.25	184	<1	<0.01	13	640	4	<10	19	0.08	<10	<10	49	<10	60	--
GN-86-004	25	1.12	0.4	10	170	<0.5	<2	0.77	<0.5	10	34	35	2.27	<10	0.12	10	0.48	457	1	0.01	24	920	8	<10	33	0.08	<10	<10	56	<10	60	--
GN-86-005	<5	1.45	0.2	20	190	<0.5	<2	1.24	<0.5	16	52	58	3.27	10	0.17	20	0.71	750	1	0.01	45	950	14	<10	41	0.08	<10	<10	63	<10	100	--
GN-86-006	<5	1.16	0.2	10	110	<0.5	<2	0.42	<0.5	6	41	19	2.43	<10	0.05	10	0.44	208	<1	0.01	15	270	8	<10	23	0.10	<10	<10	70	<10	40	--
GN-86-007	<5	0.92	0.2	<10	190	<0.5	<2	0.46	<0.5	6	28	17	2.22	<10	0.07	10	0.35	308	<1	<0.01	14	640	4	<10	24	0.09	<10	<10	61	<10	40	--
GN-86-008	<5	1.51	0.2	<10	190	<0.5	<2	0.38	<0.5	5	32	13	2.53	<10	0.04	10	0.34	285	<1	<0.01	15	1650	6	<10	22	0.09	<10	<10	63	<10	80	--
GN-86-009	10	1.97	0.2	10	90	<0.5	<2	0.30	<0.5	7	36	11	3.06	<10	0.04	10	0.31	298	<1	<0.01	15	1790	4	<10	20	0.09	<10	<10	66	<10	80	--
GN-86-010	<5	2.05	0.4	<10	130	<0.5	<2	0.30	<0.5	6	33	14	2.60	<10	0.04	10	0.32	273	<1	0.01	15	2500	4	<10	19	0.09	<10	<10	57	<10	120	--
GN-86-011	<5	1.91	0.2	<10	90	<0.5	<2	0.22	<0.5	5	32	11	2.84	<10	0.03	10	0.26	157	<1	<0.01	12	1730	6	<10	16	0.08	<10	<10	59	<10	80	--
GN-86-012	<5	2.28	0.2	<10	100	<0.5	<2	0.25	<0.5	6	34	18	2.98	<10	0.03	10	0.33	194	<1	<0.01	17	2500	4	<10	15	0.08	<10	<10	66	<10	70	--
GN-86-013	<5	1.78	0.2	10	140	<0.5	<2	0.30	<0.5	7	36	16	2.87	<10	0.03	10	0.39	203	<1	<0.01	19	1850	8	<10	18	0.08	<10	<10	66	<10	70	--
GN-86-014	<5	2.14	0.2	<10	120	<0.5	<2	0.21	<0.5	6	35	12	2.90	<10	0.05	10	0.25	252	<1	<0.01	12	2130	6	<10	14	0.07	<10	<10	58	<10	90	--
GN-86-015	<5	1.91	0.2	<10	90	<0.5	<2	0.26	<0.5	6	36	19	2.60	<10	0.04	10	0.32	333	<1	<0.01	17	1750	8	<10	14	0.08	<10	<10	60	<10	70	--
GN-86-016	20	2.73	0.2	<10	90	<0.5	<2	0.19	<0.5	7	38	17	3.26	<10	0.04	10	0.35	253	1	<0.01	19	1660	4	<10	14	0.10	<10	<10	64	<10	100	--
GN-86-017	25	2.57	0.2	<10	90	<0.5	<2	0.23	<0.5	5	35	13	3.15	<10	0.04	10	0.30	336	<1	<0.01	14	2250	6	<10	16	0.09	<10	<10	65	<10	90	--
GN-86-018	<5	2.61	0.2	<10	90	<0.5	<2	0.26	<0.5	7	38	16	2.92	<10	0.04	10	0.36	326	<1	<0.01	19	2450	6	<10	16	0.09	<10	<10	63	<10	90	--
GN-86-019	110	2.50	0.2	<10	90	<0.5	<2	0.21	<0.5	6	37	12	3.00	<10	0.04	10	0.30	580	<1	<0.01	15	3260	4	<10	12	0.07	<10	<10	63	<10	90	--
GN-86-020	15	2.18	0.2	<10	130	<0.5	<2	0.26	<0.5	6	36	13	3.38	<10	0.04	10	0.35	305	<1	<0.01	15	3590	4	<10	16	0.09	<10	<10	70	<10	110	--
GN-86-027	<5	1.62	0.2	10	110	<0.5	<2	0.28	<0.5	9	40	40	2.38	<10	0.09	10	0.56	301	<1	0.01	29	900	6	<10	18	0.09	<10	<10	58	<10	60	--
GN-86-028	<5	2.14	0.2	<10	110	<0.5	<2	0.23	<0.5	7	33	14	2.65	<10	0.04	10	0.30	242	<1	<0.01	14	1470	6	<10	13	0.09	<10	<10	55	<10	90	--
GN-86-029	<5	1.33	0.2	<10	70	<0.5	<2	0.19	<0.5	3	26	8	2.11	<10	0.02	10	0.20	136	<1	<0.01	8	1080	6	<10	13	0.08	<10	<10	53	<10	50	--
GN-86-030	<5	1.01	0.2	<10	70	<0.5	<2	0.20	<0.5	3	22	8	1.79	<10	0.02	10	0.19	203	<1	<0.01	8	1120	4	<10	11	0.08	<10	<10	46	<10	50	--
GN-86-031	60	2.21	0.2	<10	80	<0.5	<2	0.20	<0.5	5	44	14	3.33	<10	0.03	10	0.29	254	<1	<0.01	16	2480	8	<10	12	0.09	<10	<10	73	<10	90	--
GN-86-032	<5	1.76	0.2	<10	100	<0.5	<2	0.27	<0.5	6	34	21	2.72	<10	0.03	10	0.37	240	<1	<0.01	16	950	6	<10	16	0.10	<10	<10	70	<10	60	--
GN-86-033	<5	1.85	0.2	10	140	<0.5	<2	0.29	<0.5	10	45	35	2.70	<10	0.06	10	0.51	249	<1	0.01	30	710	8	<10	20	0.11	<10	<10	64	<10	60	--
GN-86-034	<5	1.80	0.2	10	90	<0.5	<2	0.29	<0.5	8	39	24	2.38	<10	0.05	10	0.36	280	<1	0.01	22	1060	4	<10	18	0.09	<10	<10	59	<10	70	--
GN-86-035	<5	2.38	0.2	10	130	<0.5	<2	0.34	<0.5	8	49	28	3.55	10	0.07	10	0.49	327	<1	0.01	24	1640	8	<10	23	0.12	<10	<10	82	<10	80	--
GN-86-036	<5	1.37	0.2	<10	120	<0.5	<2	0.32	<0.5	4	27	9	1.84	10	0.05	20	0.28	184	<1	<0.01	10	570	6	<10	23	0.11	<10	<10	49	<10	70	--
GN-86-037	<5	1.75	0.2	<10	130	<0.5	<2	0.24	<0.5	4	39	12	4.04	<10	0.03	10	0.30	174	<1	<0.01	13	1560	6	<10	18	0.12	<10	<10	95	<10	70	--
GN-86-038	<5	1.87	0.2	10	120	<0.5	<2	0.33	<0.5	8	46	20	3.52	<10	0.04	10	0.46	318	<1	0.01	20	1870	4	<10	21	0.12	<10	<10	84	<10	70	--
GN-86-039	20	1.76	0.2	<10	100	<0.5	<2	0.33	<0.5	8	39	24	2.51	<10	0.05	10	0.41	216	<1	0.01	23	1170	6	<10	18	0.09	<10	<10	59	<10	60	--
GN-86-040	15	1.32	0.2	20	200	<0.5	<2	0.11	<0.5	6	19	35	2.69	<10	0.05	10	0.12	291	3	<0.01	22	930	6	<10	13	0.02	<10	<10	40	<10	90	--
GN-86-041	<5	1.69	0.2	<10	170	<0.5	<2	0.29	<0.5	6	36	11	3.01	10	0.08	10	0.28	263	1	<0.01	14	2090	6	<10	24	0.09	<10	<10	64	<10	110	--
GN-86-042	<5	2.01	0.2	<10	180	<0.5	<2	0.45	<0.5	8	41	23	2.66	10	0.07	20	0.53	258	<1	0.01	27	840	10	<10	31	0.12	<10	<10	59	<10	120	--
GN-86-043	<5	1.78	0.2	<10	150	<0.5	<2	0.29	<0.5	6	35	12	2.82	<10	0.04	10	0.38	229	<1	<0.01	16	1650	4	<10	18	0.10	<10	<10	63	<10	130	--
GN-86-044	<5	1.25	0.2	<10	120	<0.5	<2	0.26	<0.5	4	27	10	2.75	<10	0.04	10	0.26	156	<1	<0.01	10	1830	6	<10	17	0.09	<10	<10	67	<10	70	--
GN-86-045	<5	1.69	0.2	<10	160	<0.5	<2	0.23	<0.5	8	41	28	3.26	<10	0.03	10	0.44	208	<1	<0.01	24	420	6	<10	16	0.11	<10	<10	81	<10	50	--
GN-86-046	25	1.74	0.2	<10	90	<0.5	<2	0.24	<0.5	6	37	22	3.48	<10	0.02	<10	0.38	180	<1	<0.01	17	1780	4	<10	12	0.08	<10	<10	82	<10	70	--

Certified by *Stacy B. Bollen*



# 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 ANALYSIS

TO : MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. # : A8614404-002-A  
INVOICE # : I8614404  
DATE : 27-AUG-86  
P.O. # : NONE  
NORTH EZEKIEL

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :

Sample description	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
GN-86-047	35	1.82	0.4	10	100	<0.5	<2	0.22	<0.5	11	41	35	2.76	<10	0.05	10	0.53	376	<1	<0.01	33	1540	8	<10	11	0.08	<10	<10	57	<10	80	--
GN-86-048	<5	1.39	0.4	<10	70	<0.5	<2	0.14	<0.5	3	22	9	2.47	<10	0.01	<10	0.19	137	<1	<0.01	8	1400	6	<10	7	0.07	<10	<10	59	<10	60	--
GN-86-049	<5	1.59	0.2	<10	90	<0.5	<2	0.19	<0.5	3	32	10	3.02	<10	0.03	10	0.22	158	<1	<0.01	10	2230	8	<10	13	0.08	<10	<10	71	<10	50	--
GN-86-050	<5	1.49	0.2	<10	70	<0.5	<2	0.21	<0.5	4	27	12	2.26	<10	0.03	10	0.23	216	<1	<0.01	11	1340	6	<10	14	0.08	<10	<10	56	<10	50	--
GN-86-051	<5	2.34	0.2	<10	120	<0.5	<2	0.20	<0.5	7	40	16	3.31	<10	0.04	10	0.34	280	<1	<0.01	20	1760	6	<10	14	0.09	<10	<10	68	<10	90	--
GN-86-052	<5	2.26	0.2	<10	160	<0.5	<2	0.26	<0.5	10	42	21	3.69	<10	0.05	10	0.39	392	<1	<0.01	25	2320	6	<10	16	0.10	<10	<10	80	<10	130	--
GN-86-053	<5	2.15	0.2	<10	90	<0.5	<2	0.16	<0.5	6	43	16	4.54	<10	0.05	20	0.36	207	1	<0.01	16	1410	8	<10	13	0.10	<10	<10	75	<10	90	--
GN-86-054	<5	2.39	0.2	10	70	<0.5	<2	0.16	<0.5	6	36	19	3.45	<10	0.04	20	0.31	232	<1	<0.01	19	1880	8	<10	12	0.08	<10	<10	63	<10	80	--
GN-86-055	<5	2.55	0.2	<10	80	<0.5	<2	0.12	<0.5	9	38	17	3.15	<10	0.04	10	0.33	250	<1	<0.01	18	2090	6	<10	8	0.07	<10	<10	51	<10	110	--
GN-86-056	<5	2.60	0.2	<10	90	<0.5	<2	0.17	<0.5	9	39	22	3.50	<10	0.06	10	0.39	282	<1	<0.01	24	2050	8	<10	12	0.08	<10	<10	56	<10	130	--
GN-86-057	<5	2.32	0.4	20	220	<0.5	<2	0.51	<0.5	11	62	39	5.14	10	0.09	20	0.65	275	8	0.01	24	570	12	<10	33	0.15	<10	<10	120	<10	60	--
GN-86-058	<5	3.70	0.2	10	80	<0.5	<2	0.20	<0.5	6	55	22	4.82	<10	0.04	10	0.30	302	1	<0.01	16	4100	8	<10	13	0.09	<10	<10	76	<10	90	--
GN-86-059	50	2.24	0.2	20	140	<0.5	<2	0.18	<0.5	5	44	25	4.87	<10	0.05	10	0.34	215	1	0.01	15	2230	18	<10	18	0.10	<10	<10	87	<10	90	--
GN-86-060	<5	2.42	0.2	<10	140	<0.5	<2	0.25	<0.5	6	35	21	2.92	<10	0.06	10	0.39	341	<1	<0.01	17	2820	8	<10	14	0.10	<10	<10	68	<10	60	--
GN-86-061	<5	2.40	0.2	<10	70	<0.5	<2	0.09	<0.5	4	28	13	2.78	<10	0.03	10	0.24	155	<1	<0.01	12	2190	8	<10	7	0.06	<10	<10	47	<10	80	--
GN-86-062	<5	3.57	0.2	<10	80	<0.5	<2	0.12	<0.5	5	40	13	3.60	<10	0.03	10	0.25	157	<1	<0.01	11	4150	6	<10	7	0.05	<10	<10	57	<10	80	--
GN-86-063	<5	1.59	0.2	<10	70	<0.5	<2	0.12	<0.5	4	29	13	3.83	<10	0.02	10	0.28	236	<1	<0.01	12	2490	10	<10	8	0.06	<10	<10	68	<10	90	--
GN-86-064	<5	1.76	0.2	<10	100	<0.5	<2	0.13	<0.5	8	41	21	2.87	<10	0.05	10	0.43	238	2	<0.01	19	780	10	<10	10	0.06	<10	<10	48	<10	50	--
GN-86-065	<5	1.13	0.2	10	240	<0.5	<2	0.36	<0.5	10	34	22	2.47	<10	0.07	20	0.40	298	2	<0.01	19	590	10	<10	22	0.06	<10	<10	48	<10	50	--
GN-86-066	<5	1.30	0.2	10	140	<0.5	<2	0.30	<0.5	9	33	26	2.58	<10	0.08	10	0.44	306	<1	<0.01	22	1120	8	<10	16	0.07	<10	<10	50	<10	60	--
GN-86-067	<5	1.70	0.2	10	210	<0.5	<2	0.35	<0.5	10	41	40	3.80	<10	0.08	10	0.50	568	<1	<0.01	28	2280	12	<10	17	0.08	<10	<10	66	<10	70	--
GN-86-068	<5	1.37	0.2	10	130	<0.5	<2	0.35	<0.5	11	30	31	2.52	<10	0.12	10	0.53	441	1	<0.01	33	1140	16	<10	17	0.07	<10	<10	45	<10	70	--
GN-86-069	<5	1.39	0.2	<10	540	<0.5	<2	0.40	<0.5	11	23	15	2.09	<10	0.05	20	0.31	1069	1	<0.01	16	890	8	<10	32	0.04	<10	<10	34	<10	50	--
GN-86-070	<5	1.85	0.2	<10	440	<0.5	<2	0.35	<0.5	13	33	24	2.63	<10	0.07	30	0.41	779	1	<0.01	21	1200	10	<10	27	0.05	<10	<10	44	<10	60	--
GN-86-071	<5	2.32	0.2	<10	690	<0.5	<2	0.34	<0.5	17	42	32	2.91	<10	0.10	30	0.48	674	1	<0.01	31	1640	14	<10	29	0.05	<10	<10	46	<10	100	--
GN-86-072	<5	1.88	0.2	<10	380	<0.5	<2	0.34	<0.5	8	36	16	2.45	<10	0.09	20	0.48	274	<1	<0.01	22	1220	6	<10	26	0.07	<10	<10	41	<10	80	--
GN-86-073	<5	1.90	0.2	<10	120	<0.5	<2	0.20	<0.5	9	40	25	2.61	<10	0.09	10	0.48	339	<1	<0.01	24	1050	10	<10	17	0.09	<10	<10	51	<10	80	--
GN-86-074	<5	1.67	0.2	<10	90	<0.5	<2	0.19	<0.5	6	33	17	3.06	<10	0.04	10	0.33	221	<1	<0.01	14	1520	10	<10	14	0.08	<10	<10	67	<10	90	--
GN-86-075	<5	1.66	0.2	10	110	<0.5	<2	0.27	<0.5	7	37	22	3.60	<10	0.09	20	0.43	266	1	0.01	18	720	12	<10	20	0.13	<10	<10	86	<10	80	--
GN-86-076	<5	1.45	0.2	10	70	<0.5	<2	0.26	<0.5	7	37	25	3.30	<10	0.05	20	0.38	206	1	<0.01	18	960	8	<10	16	0.09	<10	<10	68	<10	50	--
GN-86-077	<5	2.08	0.2	10	100	<0.5	<2	0.19	<0.5	6	36	17	4.03	<10	0.03	20	0.33	225	<1	<0.01	15	1910	6	<10	14	0.10	<10	<10	83	<10	100	--
GN-86-078	<5	1.90	0.6	30	120	<0.5	<2	0.30	<0.5	8	37	28	4.90	<10	0.07	10	0.43	270	2	0.01	18	650	12	<10	24	0.15	<10	<10	101	<10	90	--
GN-86-079	<5	1.01	0.2	<10	160	<0.5	<2	0.39	<0.5	6	27	11	1.71	<10	0.07	20	0.34	559	1	<0.01	10	230	10	<10	25	0.09	<10	<10	41	<10	40	--
GN-86-080	<5	1.77	0.2	<10	110	<0.5	<2	0.20	<0.5	5	38	13	3.50	<10	0.08	20	0.32	178	<1	<0.01	13	3120	12	<10	13	0.08	<10	<10	73	<10	60	--
GN-86-081	<5	1.70	0.2	<10	90	<0.5	<2	0.27	<0.5	6	36	17	3.10	<10	0.08	20	0.38	308	<1	<0.01	15	1720	10	<10	19	0.10	<10	<10	69	<10	60	--
GN-86-082	<5	2.32	0.2	10	90	<0.5	<2	0.23	<0.5	8	48	19	3.77	<10	0.06	30	0.38	239	<1	<0.01	20	2330	10	<10	17	0.09	<10	<10	74	<10	120	--
GN-86-083	<5	1.37	0.2	<10	140	<0.5	<2	0.31	<0.5	4	30	11	1.98	<10	0.07	20	0.30	251	<1	<0.01	10	1130	8	<10	23	0.08	<10	<10	47	<10	70	--
GN-86-084	<5	0.83	0.2	<10	110	<0.5	<2	0.21	<0.5	1	15	7	0.96	<10	0.04	20	0.12	101	<1	<0.01	4	650	10	<10	17	0.05	<10	<10	28	<10	30	--
GN-86-085	<5	1.08	0.4	<10	170	<0.5	<2	0.26	<0.5	3	25	10	-1.60	<10	0.07	20	0.25	133	<1	<0.01	9	1400	6	<10	19	0.07	<10	<10	42	<10	50	--
GN-86-086	<5	0.74	0.6	<10	180	<0.5	<2	0.27	0.5	3	19	10	1.11	<10	0.09	20	0.16	288	<1	<0.01	6	720	6	<10	21	0.06	<10	<10	32	<10	40	--



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Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. # : A8614404-003-A  
INVOICE # : I8614404  
DATE : 27-AUG-86  
P.O. # : NONE  
NORTH EZEKIEL

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :

Sample description	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
GN-86-087	<5	1.39	0.4	10	280	<0.5	<2	0.53	1.0	11	39	45	2.49	<10	0.14	20	0.39	1006	1	0.01	28	990	12	<10	36	0.07	<10	<10	51	<10	90	--
GN-86-088	<5	1.24	0.2	10	160	<0.5	<2	0.44	<0.5	7	34	24	2.09	<10	0.09	20	0.39	393	<1	0.01	20	800	8	<10	26	0.08	<10	<10	47	<10	60	--
GN-86-089	<5	0.60	0.2	<10	100	<0.5	<2	0.30	<0.5	2	22	24	1.70	<10	0.05	10	0.13	172	1	<0.01	12	430	8	<10	23	0.06	<10	<10	49	<10	20	--
GN-86-090	<5	0.65	0.2	<10	120	<0.5	<2	0.18	<0.5	3	20	20	1.71	<10	0.05	10	0.15	110	<1	<0.01	10	330	6	<10	14	0.06	<10	<10	50	<10	30	--
GN-86-091	<5	1.26	0.2	10	130	<0.5	<2	0.34	<0.5	9	34	25	2.43	<10	0.09	10	0.42	321	<1	0.01	21	670	8	<10	21	0.08	<10	<10	52	<10	50	--
GN-86-092	<5	2.17	0.2	10	150	<0.5	<2	0.28	<0.5	9	41	30	4.38	<10	0.08	10	0.45	257	1	0.01	22	3170	16	<10	18	0.09	<10	<10	79	<10	150	--
GN-86-093	<5	1.06	0.2	<10	70	<0.5	<2	0.26	<0.5	3	19	10	1.97	<10	0.03	10	0.17	242	<1	<0.01	7	1280	8	<10	14	0.07	<10	<10	46	<10	50	--
GN-86-094	<5	4.35	0.2	<10	80	<0.5	<2	0.23	<0.5	8	48	25	4.42	<10	0.05	10	0.47	306	<1	0.01	16	6930	10	<10	14	0.09	<10	<10	88	<10	90	--
GN-86-095	<5	1.18	0.2	<10	80	<0.5	<2	0.14	<0.5	4	28	11	2.60	<10	0.05	20	0.22	162	1	<0.01	10	1460	8	<10	11	0.07	<10	<10	57	<10	50	--
GN-86-096	<5	1.27	0.2	10	160	<0.5	<2	0.40	<0.5	7	34	23	2.14	<10	0.06	30	0.44	464	2	0.01	17	820	10	<10	27	0.07	<10	<10	45	<10	60	--
GN-86-097	<5	1.07	0.2	10	220	<0.5	<2	0.35	<0.5	9	31	24	2.28	<10	0.08	20	0.39	579	2	0.01	19	940	12	<10	20	0.06	<10	<10	46	<10	70	--
GN-86-098	<5	1.20	0.2	10	200	<0.5	<2	0.43	<0.5	11	35	25	2.40	<10	0.11	20	0.49	615	2	0.01	23	1020	12	<10	26	0.07	<10	<10	44	<10	100	--
GN-86-099	<5	0.97	0.2	10	160	<0.5	<2	0.43	<0.5	9	25	22	2.04	<10	0.06	10	0.43	482	2	0.01	21	950	10	<10	24	0.05	<10	<10	37	<10	50	--
GN-86-100	<5	1.05	0.2	<10	170	<0.5	<2	0.38	<0.5	6	31	19	2.05	<10	0.08	20	0.39	222	<1	0.01	16	490	8	<10	24	0.08	<10	<10	50	<10	40	--
GN-86-101	<5	0.98	0.2	<10	170	<0.5	<2	0.37	<0.5	5	28	14	1.95	<10	0.08	10	0.33	266	<1	<0.01	12	990	8	<10	20	0.07	<10	<10	46	<10	60	--
GN-86-102	<5	1.14	0.2	10	140	<0.5	<2	0.48	<0.5	9	38	26	2.36	<10	0.13	20	0.45	470	<1	0.01	22	920	12	<10	24	0.08	<10	<10	53	<10	60	--
GN-86-103	<5	1.10	0.2	10	160	<0.5	<2	0.52	<0.5	9	38	25	2.18	<10	0.21	20	0.54	409	<1	0.01	21	960	10	<10	28	0.09	<10	<10	48	<10	60	--
GN-86-104	<5	1.17	0.4	<10	170	<0.5	<2	0.42	<0.5	10	37	21	2.19	<10	0.14	20	0.47	444	<1	0.01	21	570	8	<10	25	0.09	<10	<10	49	<10	50	--
GN-86-105	<5	1.18	0.4	10	210	<0.5	<2	0.51	<0.5	12	48	33	3.13	<10	0.13	40	0.57	749	3	0.01	31	1090	14	<10	25	0.07	<10	<10	61	<10	80	--
GN-86-106	<5	1.22	0.2	10	230	<0.5	<2	0.62	<0.5	11	35	27	2.39	<10	0.12	30	0.50	788	2	0.01	26	1070	12	<10	35	0.07	<10	<10	45	<10	80	--
GN-86-107	<5	0.86	0.2	<10	140	<0.5	<2	0.39	<0.5	5	32	14	2.08	10	0.07	30	0.31	224	1	<0.01	13	400	8	<10	23	0.09	<10	<10	62	<10	40	--
GN-86-108	<5	1.17	0.2	<10	70	<0.5	<2	0.20	<0.5	4	25	9	2.31	<10	0.03	20	0.18	140	<1	<0.01	9	1420	8	<10	12	0.06	<10	<10	45	<10	60	--
GN-86-109	<5	1.02	0.2	<10	100	<0.5	<2	0.18	<0.5	3	25	9	2.29	<10	0.04	20	0.22	134	<1	<0.01	9	1560	8	<10	11	0.05	<10	<10	48	<10	60	--
GN-86-110	<5	0.69	0.2	20	190	<0.5	<2	0.42	<0.5	3	33	6	2.53	<10	0.03	10	0.26	945	<1	<0.01	9	740	4	<10	29	0.04	<10	<10	24	<10	30	--
GN-86-111	20	0.86	0.2	<10	80	<0.5	<2	0.18	<0.5	2	15	7	0.84	<10	0.03	20	0.18	100	<1	<0.01	6	390	6	<10	13	0.05	<10	<10	24	<10	30	--
GN-86-112	<5	2.39	0.4	10	220	<0.5	<2	0.30	<0.5	11	57	29	3.17	<10	0.17	20	0.79	335	<1	0.01	31	820	14	<10	24	0.12	<10	<10	66	<10	110	--
GN-86-113A	<5	1.68	0.2	10	70	<0.5	<2	0.15	<0.5	4	30	13	2.98	<10	0.03	20	0.23	242	<1	<0.01	12	1360	8	<10	14	0.09	<10	<10	60	<10	60	--
GN-86-113B	<5	1.70	0.2	10	90	<0.5	<2	0.22	<0.5	6	34	17	3.37	<10	0.06	20	0.34	437	<1	<0.01	15	1450	16	<10	19	0.10	<10	<10	67	<10	100	--
GN-86-114	<5	3.45	0.2	10	90	<0.5	<2	0.20	<0.5	11	54	36	4.23	<10	0.07	20	0.44	315	1	<0.01	24	2710	10	<10	16	0.10	<10	<10	70	<10	130	--
GN-86-115	15	4.10	0.2	<10	100	<0.5	<2	0.14	<0.5	10	51	19	4.01	<10	0.05	10	0.33	202	<1	<0.01	24	3280	6	<10	12	0.09	<10	<10	66	<10	170	--
GN-86-116	<5	2.94	0.2	10	90	<0.5	<2	0.21	<0.5	10	43	27	3.57	<10	0.05	20	0.38	344	<1	<0.01	23	2190	10	<10	15	0.09	<10	<10	66	<10	130	--
GN-86-117	<5	1.89	0.2	<10	110	<0.5	<2	0.14	<0.5	15	41	19	2.53	<10	0.07	20	0.39	296	1	<0.01	26	640	6	<10	12	0.07	<10	<10	47	<10	70	--
GN-86-118	<5	1.02	0.2	<10	70	<0.5	<2	0.15	<0.5	3	24	7	1.75	<10	0.04	20	0.19	118	1	<0.01	7	1000	10	<10	13	0.07	<10	<10	47	<10	30	--
GN-86-119	<5	1.76	0.2	<10	140	<0.5	<2	0.26	<0.5	6	40	14	2.99	<10	0.05	30	0.41	183	<1	<0.01	19	580	8	<10	21	0.10	<10	<10	54	<10	50	--
GN-86-120	<5	1.15	0.2	<10	100	<0.5	<2	0.45	<0.5	6	40	15	2.26	10	0.05	70	0.33	223	1	<0.01	17	1570	10	<10	19	0.07	<10	<10	51	<10	50	--
GN-86-121	<5	1.74	0.2	<10	90	<0.5	<2	0.31	<0.5	6	37	16	3.28	<10	0.03	30	0.36	175	<1	<0.01	16	750	6	<10	22	0.09	<10	<10	68	<10	60	--
GN-86-122	<5	1.77	0.2	<10	70	<0.5	<2	0.27	<0.5	7	35	16	2.81	<10	0.03	30	0.26	324	<1	<0.01	15	2540	6	<10	11	0.06	<10	<10	52	<10	80	--
GN-86-123	<5	1.53	0.2	<10	90	<0.5	<2	0.17	<0.5	6	25	11	2.29	<10	0.02	20	0.22	233	<1	<0.01	11	2290	6	<10	10	0.06	<10	<10	49	<10	90	--





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## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED  
1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. # : A8614598-001-A  
INVOICE # : I8614598  
DATE : 20-JUL-86  
P.O. # : NONE  
EZEKIEL-GNORTH

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :  
ATTN: L. HOLMGREN

Sample description	Au ppb FA-AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
GM-86-124	<5	1.11	0.2	<10	110	<0.5	<2	0.37	<0.5	6	27	18	1.92	<10	0.03	30	0.27	199	<1	<0.01	15	570	6	<10	24	0.09	<10	<10	49	<10	50	--
GM-86-125	1450	3.21	0.2	20	150	<0.5	<2	0.80	<0.5	8	32	21	5.77	10	0.04	10	0.84	933	1	<0.01	12	2650	10	<10	26	0.14	<10	<10	107	<10	100	--
GM-86-126	<5	1.03	0.2	10	60	<0.5	<2	0.23	<0.5	4	34	11	2.68	<10	0.04	30	0.27	181	1	<0.01	11	340	8	<10	14	0.08	<10	<10	71	<10	50	--
GM-86-127	70	0.69	0.2	10	60	<0.5	<2	0.18	<0.5	3	30	8	2.25	<10	0.02	50	0.14	132	1	<0.01	7	700	4	<10	12	0.06	<10	<10	62	<10	30	--
GM-86-128	265	1.15	0.2	10	100	<0.5	<2	0.25	<0.5	7	29	14	2.29	<10	0.04	30	0.26	226	<1	<0.01	15	380	6	<10	18	0.07	<10	<10	51	<10	40	--
GM-86-129	<5	1.21	0.2	<10	80	<0.5	<2	0.21	<0.5	4	34	15	2.98	<10	0.04	30	0.24	194	<1	<0.01	12	1550	8	<10	11	0.06	<10	<10	70	<10	50	--
GM-86-130	770	0.81	0.2	20	150	<0.5	<2	0.48	<0.5	11	25	31	2.80	<10	0.09	50	0.25	763	<1	<0.01	22	870	8	<10	17	0.04	<10	<10	34	<10	60	--

Certified by

*Hart Bickler*



# Chemex Labs Ltd.

-Analytical Chemists -Geochemists -Registered Assayers

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Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. # : A8614814-001-A  
INVOICE # : I8614814  
DATE : 28-JUL-86  
P.O. # : NONE  
EZEKIEL/G NORTH

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :  
CC: L. HOLMGREN

Sample description	Au ppb EA+AA	Al Z	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca Z	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe Z	Ga ppm	K Z	La ppm	Mg Z	Mn ppm	Mo ppm	Na Z	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti Z	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
GN-86-131	<5	3.07	0.2	<10	80	<0.5	<2	0.16	<0.5	6	40	20	3.66	<10	0.06	20	0.35	226	<1	<0.01	19	2010	12	<10	13	0.09	<10	<10	58	<10	90
GN-86-132	155	2.63	0.2	<10	70	<0.5	<2	0.11	<0.5	5	40	14	4.13	<10	0.04	20	0.29	146	<1	<0.01	17	1390	12	<10	9	0.08	<10	<10	79	<10	70
GN-86-133	<5	1.77	0.2	<10	80	<0.5	<2	0.16	<0.5	5	26	15	2.46	<10	0.05	20	0.26	362	<1	<0.01	14	1350	10	<10	9	0.06	<10	<10	45	<10	80
GN-86-134	<5	2.05	0.2	<10	60	<0.5	<2	0.13	<0.5	5	34	15	2.54	<10	0.06	20	0.28	159	<1	<0.01	16	1510	12	<10	8	0.05	<10	<10	46	<10	70
GN-86-135	<5	2.27	0.2	<10	60	<0.5	<2	0.15	<0.5	6	47	19	3.33	10	0.04	20	0.39	187	<1	<0.01	16	1520	8	<10	10	0.13	<10	<10	66	<10	80
GN-86-136	<5	2.02	0.2	<10	50	<0.5	<2	0.14	<0.5	3	27	12	1.99	10	0.04	30	0.15	117	<1	<0.01	8	1680	8	<10	10	0.06	<10	<10	42	<10	60
GN-86-137	15	3.86	0.2	<10	80	<0.5	<2	0.14	<0.5	8	49	20	3.60	10	0.07	30	0.33	183	<1	<0.01	21	2110	12	<10	11	0.07	<10	<10	57	<10	130
GN-86-138	25	2.47	0.2	<10	80	<0.5	<2	0.27	<0.5	7	46	20	3.42	10	0.08	30	0.40	346	<1	0.01	21	2230	16	<10	12	0.09	<10	<10	66	<10	80
GN-86-139	15	2.57	0.2	<10	80	<0.5	<2	0.16	<0.5	5	43	15	3.66	10	0.06	30	0.28	208	<1	<0.01	16	1840	12	<10	13	0.09	<10	<10	67	<10	80
GN-86-140	<5	2.79	0.4	<10	70	<0.5	<2	0.18	<0.5	4	40	12	3.71	10	0.07	20	0.26	208	<1	<0.01	14	1700	12	<10	12	0.08	<10	<10	62	<10	80
GN-86-141	<5	1.69	0.2	<10	100	<0.5	<2	0.23	<0.5	5	22	16	2.80	10	0.08	20	0.30	289	<1	<0.01	16	1410	12	<10	14	0.07	<10	<10	58	<10	60
GN-86-142	<5	1.59	0.2	<10	240	<0.5	<2	0.36	<0.5	9	34	23	2.53	10	0.11	30	0.36	773	<1	<0.01	22	1040	14	<10	22	0.07	<10	<10	50	<10	90
GN-86-143	<5	1.97	0.2	10	450	<0.5	<2	0.56	<0.5	13	50	52	3.22	10	0.10	60	0.40	1565	2	0.01	32	860	18	<10	40	0.09	10	10	64	<10	90
GN-86-144	<5	1.94	0.2	10	220	<0.5	<2	0.33	<0.5	7	37	16	3.67	<10	0.11	30	0.37	221	<1	<0.01	22	3180	12	<10	23	0.01	<10	<10	82	<10	90
GN-86-145	<5	1.16	0.2	<10	170	<0.5	<2	0.35	<0.5	7	30	26	2.15	<10	0.15	30	0.41	264	<1	<0.01	22	930	10	<10	18	0.07	<10	<10	46	<10	50
GN-86-146	<5	1.35	0.2	<10	160	<0.5	<2	0.43	<0.5	8	31	22	2.40	<10	0.12	20	0.40	455	<1	<0.01	22	1630	12	<10	19	0.07	<10	<10	48	<10	70
GN-86-147	<5	1.55	0.2	<10	190	<0.5	<2	0.32	<0.5	5	32	18	2.54	10	0.07	40	0.25	174	<1	<0.01	13	1490	10	<10	22	0.06	<10	<10	50	<10	60
GN-86-148	<5	1.03	0.2	<10	100	<0.5	<2	0.42	<0.5	6	43	19	2.73	10	0.11	30	0.34	239	<1	<0.01	19	1280	10	<10	19	0.08	<10	<10	64	<10	50
GN-86-149	<5	1.57	0.2	<10	170	<0.5	<2	0.31	<0.5	9	40	31	2.67	<10	0.15	30	0.53	286	<1	0.01	31	630	12	<10	19	0.09	<10	<10	66	<10	60
GN-86-150	<5	1.49	0.2	10	330	<0.5	<2	0.45	<0.5	11	35	38	2.51	10	0.15	30	0.47	968	1	0.01	28	1070	22	<10	28	0.08	<10	<10	49	<10	80
GN-86-151	<5	1.37	0.2	<10	200	<0.5	<2	0.42	<0.5	10	39	31	2.55	10	0.16	40	0.49	395	<1	0.01	26	890	14	<10	28	0.10	<10	<10	57	<10	60
GN-86-152	<5	1.20	0.2	<10	120	<0.5	<2	0.32	<0.5	5	33	18	2.35	10	0.12	30	0.36	201	<1	<0.01	16	680	8	<10	20	0.09	<10	<10	58	<10	50
GN-86-153	<5	1.06	0.2	<10	100	<0.5	<2	0.26	<0.5	4	26	15	2.28	<10	0.08	20	0.29	153	<1	<0.01	14	1060	10	<10	15	0.06	<10	<10	51	<10	50
GN-86-154	<5	0.63	0.2	<10	80	<0.5	<2	0.19	<0.5	1	13	9	0.95	<10	0.07	30	0.09	101	<1	<0.01	4	390	4	<10	13	0.06	<10	<10	25	<10	20
GN-86-155	<5	1.62	1.6	<10	320	<0.5	<2	0.39	<0.5	9	46	33	3.76	10	0.28	20	0.60	304	<1	0.01	26	1490	18	<10	24	0.12	<10	<10	72	<10	80
GN-86-156	<5	0.96	0.4	<10	170	<0.5	<2	0.34	<0.5	5	26	15	1.84	10	0.13	20	0.25	258	<1	<0.01	12	710	6	<10	22	0.09	<10	<10	50	<10	50
GN-86-157	<5	3.71	0.2	10	140	<0.5	<2	0.35	<0.5	10	51	23	3.49	10	0.11	30	0.74	347	<1	<0.01	30	2290	16	<10	20	0.06	<10	<10	76	<10	100
GN-86-158	<5	3.80	0.2	<10	100	<0.5	<2	0.21	<0.5	10	51	20	3.74	10	0.09	20	0.41	375	<1	<0.01	25	2870	16	<10	15	0.08	<10	<10	61	<10	150
GN-86-159	<5	3.11	0.2	<10	70	<0.5	<2	0.19	<0.5	6	44	18	3.61	10	0.06	30	0.35	261	<1	<0.01	20	2370	12	<10	14	0.08	<10	<10	58	<10	90
GN-86-160	<5	3.03	0.2	<10	100	<0.5	<2	0.18	<0.5	9	42	19	3.28	<10	0.06	20	0.39	207	<1	<0.01	25	2240	10	<10	12	0.08	<10	<10	53	<10	120
GN-86-161	155	2.03	0.2	<10	70	<0.5	<2	0.27	<0.5	11	46	24	3.08	<10	0.06	40	0.43	251	<1	<0.01	29	1580	12	<10	16	0.08	<10	<10	65	<10	80
GN-86-162	5	1.42	0.2	<10	70	<0.5	<2	0.28	<0.5	8	187	22	2.24	<10	0.12	20	0.39	297	<1	0.02	21	870	8	<10	16	0.08	<10	<10	42	<10	50
GN-86-163	<5	3.10	0.2	<10	80	<0.5	<2	0.16	<0.5	9	40	21	2.96	<10	0.05	20	0.37	226	<1	<0.01	23	1660	12	<10	11	0.07	<10	<10	50	<10	110
GN-86-164	<5	3.02	0.2	<10	80	<0.5	<2	0.19	<0.5	6	44	15	4.27	10	0.06	20	0.32	321	<1	<0.01	17	3530	16	<10	12	0.08	<10	<10	79	<10	90
GN-86-165	<5	1.85	0.2	<10	300	<0.5	<2	0.21	<0.5	4	35	17	3.79	10	0.09	20	0.34	183	<1	<0.01	16	810	10	<10	17	0.12	<10	<10	100	<10	70
GN-86-166	<5	1.98	0.2	<10	210	<0.5	<2	0.22	<0.5	10	32	16	3.36	10	0.09	20	0.30	526	<1	<0.01	13	1500	12	<10	14	0.07	<10	<10	66	<10	90
GN-86-167	<5	3.34	0.2	<10	100	<0.5	<2	0.17	<0.5	6	41	16	3.45	<10	0.05	20	0.29	222	<1	<0.01	17	2690	10	<10	10	0.06	<10	<10	58	<10	70
GN-86-168	<5	2.85	0.2	<10	70	<0.5	<2	0.13	<0.5	3	37	14	2.71	10	0.06	20	0.41	128	<1	<0.01	10	2070	10	<10	11	0.06	<10	<10	52	<10	50
GN-86-169	<5	1.68	0.2	<10	130	<0.5	<2	0.19	<0.5	6	38	18	2.57	<10	0.11	30	0.23	220	<1	0.01	16	1110	10	<10	16	0.09	<10	<10	55	<10	40
GN-86-170	<5	1.18	0.2	<10	170	<0.5	<2	0.29	<0.5	4	23	14	1.63	<10	0.08	20	0.32	154	<1	0.01	13	800	6	<10	15	0.07	<10	<10	36	<10	30

Certified by *L. Holmgren*



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Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. # : A8614814-002-A  
INVOICE # : I8614814  
DATE : 28-JUL-86  
P.O. # : NONE  
EZEKIEL/G NORTH

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :  
CC: L. HOLMGREN

Sample description	Au ppb EA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Hg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
GN-86-171	<5	1.11	0.6	<10	120	<0.5	<2	0.17	<0.5	2	19	12	1.58	<10	0.04	20	0.20	126	<1	<0.01	7	350	4	<10	12	0.07	<10	<10	37	<10	30	--
GN-86-172	<5	0.71	0.2	<10	120	<0.5	<2	0.17	<0.5	2	16	10	1.08	<10	0.05	30	0.12	169	<1	<0.01	4	710	4	<10	13	0.06	<10	<10	29	<10	20	--
GN-86-173	<5	1.38	0.2	<10	230	<0.5	<2	0.31	<0.5	4	32	18	1.90	10	0.10	30	0.39	182	<1	<0.01	14	610	8	<10	20	0.08	<10	<10	47	<10	40	--
GN-86-174	<5	1.25	0.2	<10	230	<0.5	<2	0.32	<0.5	5	32	20	1.91	10	0.11	40	0.39	203	<1	<0.01	14	690	10	<10	18	0.08	<10	<10	46	<10	40	--
GN-86-175	<5	1.49	0.2	<10	250	<0.5	<2	0.27	<0.5	6	29	20	2.22	<10	0.08	20	0.37	218	<1	<0.01	17	910	8	<10	15	0.07	<10	<10	47	<10	50	--
GN-86-176	<5	1.71	0.2	<10	120	<0.5	<2	0.21	<0.5	5	24	19	1.82	<10	0.04	20	0.26	142	<1	<0.01	17	1440	2	<10	9	0.05	<10	<10	36	<10	40	--
GN-86-177	<5	1.69	0.2	<10	120	<0.5	<2	0.19	<0.5	6	25	17	2.47	<10	0.06	20	0.26	378	<1	<0.01	13	2160	10	<10	9	0.06	<10	<10	51	<10	50	--
GN-86-178	<5	1.71	0.2	<10	120	<0.5	<2	0.18	<0.5	5	32	11	3.55	<10	0.04	20	0.29	186	<1	<0.01	13	1060	10	<10	11	0.09	<10	<10	69	<10	50	--
GN-86-179	<5	1.38	0.2	<10	170	<0.5	<2	0.26	<0.5	5	28	11	2.17	<10	0.07	20	0.36	159	<1	<0.01	15	1020	10	<10	15	0.08	<10	<10	47	<10	50	--
GN-86-180	<5	1.51	0.2	<10	170	<0.5	<2	0.31	<0.5	8	32	11	2.57	10	0.10	30	0.38	233	<1	<0.01	17	770	10	<10	14	0.09	<10	<10	47	<10	80	--
GN-86-181	<5	1.59	0.2	10	610	<0.5	<2	0.40	<0.5	7	33	19	2.97	10	0.09	20	0.43	226	1	0.01	19	430	16	<10	40	0.12	<10	<10	72	<10	60	--
GN-86-182	<5	1.37	0.2	10	250	<0.5	<2	0.36	<0.5	8	319	20	2.90	<10	0.21	20	0.45	629	<1	<0.03	24	1200	14	<10	21	0.11	<10	<10	52	<10	60	--
GN-86-183	<5	2.21	0.2	<10	100	<0.5	<2	0.16	<0.5	7	32	15	2.49	<10	0.06	30	0.30	173	<1	<0.01	20	1670	10	<10	10	0.06	<10	<10	43	<10	100	--
GN-86-184	<5	1.82	0.2	<10	70	<0.5	<2	0.14	<0.5	3	25	5	2.31	<10	0.05	20	0.16	205	<1	<0.01	9	1410	12	<10	12	0.07	<10	<10	42	<10	60	--
GN-86-185	<5	1.80	0.2	<10	50	<0.5	<2	0.14	<0.5	3	29	7	2.78	10	0.02	30	0.17	153	<1	<0.01	10	1440	12	<10	11	0.09	<10	<10	67	<10	40	--
GN-86-186	<5	1.38	0.2	<10	60	<0.5	<2	0.16	<0.5	3	26	9	3.06	<10	0.04	20	0.20	147	<1	<0.01	21	1880	14	<10	13	0.08	<10	<10	61	<10	40	--
GN-86-187	<5	1.77	0.2	<10	60	<0.5	<2	0.13	<0.5	3	33	7	3.70	10	0.03	20	0.19	149	1	<0.01	9	2130	18	<10	13	0.08	<10	<10	83	<10	40	--
GN-86-188	125	1.90	0.2	<10	60	<0.5	<2	0.10	<0.5	4	34	9	2.98	<10	0.05	20	0.25	127	<1	<0.01	11	1480	14	<10	8	0.06	<10	<10	57	<10	50	--
GN-86-189	<5	1.81	0.2	<10	70	<0.5	<2	0.17	<0.5	4	29	11	2.53	10	0.06	30	0.22	246	<1	<0.01	12	1560	12	<10	14	0.07	<10	<10	53	<10	60	--
GN-86-190	<5	3.94	0.2	10	80	<0.5	<2	0.14	<0.5	8	48	18	3.90	10	0.06	20	0.38	249	1	<0.01	23	2100	16	<10	13	0.10	<10	<10	63	<10	130	--
GN-86-191	<5	3.65	0.4	<10	80	<0.5	<2	0.10	<0.5	5	35	8	3.26	<10	0.03	10	0.28	182	1	<0.01	14	2320	16	<10	9	0.08	<10	<10	57	<10	110	--
GN-86-192	<5	0.87	0.2	<10	90	<0.5	<2	0.19	<0.5	4	132	11	1.67	<10	0.10	10	0.28	192	<1	<0.02	13	600	8	<10	12	0.06	<10	<10	34	<10	30	--
GN-86-193	<5	2.22	0.2	<10	80	<0.5	<2	0.14	<0.5	4	35	11	4.14	<10	0.04	20	0.23	151	<1	<0.01	13	2430	12	<10	9	0.07	<10	<10	66	<10	60	--
GN-86-194	<5	2.71	0.4	<10	80	<0.5	<2	0.15	<0.5	4	35	10	3.69	<10	0.03	20	0.22	198	1	<0.01	12	2350	14	<10	11	0.07	<10	<10	62	<10	70	--
GN-86-195	<5	2.66	0.6	10	90	<0.5	<2	0.15	<0.5	5	43	16	4.50	<10	0.04	20	0.31	373	1	<0.01	18	3380	14	<10	10	0.08	<10	<10	71	<10	80	--
GN-86-196	<5	2.34	0.6	<10	90	<0.5	<2	0.12	<0.5	6	33	16	3.45	<10	0.03	20	0.28	150	1	<0.01	20	1190	14	<10	9	0.08	<10	<10	59	<10	60	--
GN-86-197	<5	1.05	0.2	<10	120	<0.5	<2	0.23	<0.5	5	259	15	2.00	<10	0.11	10	0.32	282	<1	<0.02	17	600	8	<10	15	0.08	<10	<10	38	<10	30	--
GN-86-198	<5	2.74	0.2	<10	70	<0.5	<2	0.10	<0.5	4	31	10	3.34	<10	0.02	10	0.24	131	1	<0.01	13	1900	14	<10	9	0.08	<10	<10	58	<10	60	--
GN-86-199	<5	1.92	0.2	<10	80	<0.5	<2	0.09	<0.5	5	27	8	2.15	<10	0.04	20	0.21	120	<1	<0.01	13	1270	8	<10	8	0.06	<10	<10	42	<10	60	--
GN-86-200	<5	3.24	0.2	<10	130	<0.5	<2	0.10	<0.5	7	44	13	3.21	<10	0.06	20	0.33	168	1	<0.01	22	1320	12	<10	10	0.07	<10	<10	54	<10	80	--
GN-86-201	<5	3.27	0.2	<10	80	<0.5	<2	0.12	<0.5	6	35	14	3.72	<10	0.04	20	0.28	181	1	<0.01	15	2590	14	<10	9	0.08	<10	<10	58	<10	100	--
GN-86-202	<5	1.81	0.2	<10	60	<0.5	<2	0.14	<0.5	3	31	8	3.57	<10	0.02	20	0.21	141	<1	<0.01	10	1780	12	<10	12	0.08	<10	<10	65	<10	60	--
GN-86-203	<5	2.03	0.2	<10	90	<0.5	<2	0.14	<0.5	5	32	13	3.14	<10	0.05	20	0.32	166	<1	<0.01	19	960	14	<10	12	0.09	<10	<10	58	<10	70	--
GN-86-204	<5	1.45	0.2	<10	90	<0.5	<2	0.17	<0.5	4	166	10	2.31	<10	0.08	10	0.27	161	<1	<0.02	12	1250	10	<10	13	0.09	<10	<10	51	<10	50	--
GN-86-205	<5	2.75	0.2	<10	80	<0.5	<2	0.11	<0.5	4	34	6	3.61	<10	0.03	10	0.23	170	1	<0.01	10	2260	16	<10	9	0.07	<10	<10	65	<10	80	--
GN-86-206	<5	0.87	0.2	<10	170	<0.5	<2	0.24	<0.5	5	20	10	2.07	<10	0.06	20	0.16	466	1	<0.01	9	450	10	<10	19	0.08	<10	<10	53	<10	50	--
GN-86-207	<5	1.30	0.2	<10	240	<0.5	<2	0.33	<0.5	7	31	13	2.71	10	0.06	20	0.31	508	<1	<0.01	17	730	12	<10	24	0.09	<10	<10	57	<10	80	--
GN-86-208	<5	1.94	0.2	<10	70	<0.5	<2	0.13	<0.5	3	30	8	3.08	<10	0.03	20	0.19	132	<1	<0.01	12	1350	14	<10	10	0.06	<10	<10	54	<10	60	--
GN-86-209	<5	2.31	0.2	<10	50	<0.5	<2	0.13	<0.5	3	40	9	4.23	<10	0.03	20	0.21	182	1	<0.01	11	2500	16	<10	11	0.06	<10	<10	71	<10	50	--
GN-86-210	<5	2.26	0.2	<10	80	<0.5	<2	0.13	<0.5	5	38	11	4.02	<10	0.03	20	0.27	184	<1	<0.01	15	2160	16	<10	10	0.08	<10	<10	68	<10	70	--

Certified by: *Stuart Buchler*



# Chemex Labs Ltd.

-Analytical Chemists -Geochemists -Registered Assayers

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

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

## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED  
1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. # : A8614814-003-A  
INVOICE # : I8614814  
DATE : 28-JUL-86  
P.O. # : NONE  
EZEKIEL/G NORTH

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :  
CC: L. HOLMGREN

Sample description	Au ppb EA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
GN-86-211	<5	2.36	0.2	<10	70	<0.5	<2	0.19	<0.5	5	35	14	3.04	<10	0.05	28	0.30	215	1	<0.01	17	2180	14	<10	12	0.08	<10	<10	56	<10	80	--
GN-86-212	<5	2.17	0.2	<10	80	<0.5	<2	0.20	<0.5	5	41	13	3.89	10	0.06	30	0.29	234	1	<0.01	16	2370	12	<10	14	0.10	<10	<10	77	<10	90	--
GN-86-213	<5	2.15	0.2	10	70	<0.5	<2	0.16	<0.5	8	37	16	2.77	<10	0.07	20	0.31	176	1	<0.01	19	1960	12	<10	11	0.07	<10	<10	51	<10	90	--
GN-86-214	75	2.44	0.2	<10	70	<0.5	<2	0.13	<0.5	6	41	12	3.15	10	0.06	30	0.23	278	1	<0.01	16	1950	16	<10	10	0.07	<10	<10	58	<10	100	--
GN-86-215	80	3.17	0.2	<10	80	<0.5	<2	0.16	<0.5	8	47	14	3.84	10	0.05	30	0.31	283	1	<0.01	20	3180	16	<10	11	0.08	<10	<10	69	<10	130	--
GN-86-216	<5	3.09	0.2	<10	90	<0.5	<2	0.17	<0.5	7	42	12	3.43	10	0.06	30	0.31	228	1	<0.01	18	2050	12	<10	13	0.09	<10	<10	59	<10	120	--
GN-86-217	<5	1.69	0.2	<10	70	<0.5	<2	0.18	<0.5	6	31	15	2.26	<10	0.07	20	0.31	213	<1	<0.01	19	1480	10	<10	10	0.06	<10	<10	44	<10	70	--
GN-86-218	<5	1.14	0.2	<10	60	<0.5	<2	0.10	<0.5	2	13	4	1.33	<10	0.02	10	0.10	71	<1	<0.01	6	620	10	<10	8	0.05	<10	<10	27	<10	40	--

Certified by *Hart Bichler*



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212 Brooksbank Ave.  
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Telephone: (604) 984-0221  
Telex: 043-52597

Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED  
1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. # : A8614405-001-A  
INVOICE # : I8614405  
DATE : 21-JUL-86  
P.O. # : NONE  
6 NORTH EZEKIAL

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :

Sample description	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
GN-HM-300	10	2.69	1.4	60	80	<0.5	<2	2.17	2.5	34	392	164	10.67	20	0.05	30	0.87	3646	7	0.05	91	1470	38	10	126	0.24	<10	<10	101	<10	260	—
GN-HM-301	9600	2.94	0.8	50	70	<0.5	<2	2.21	1.0	34	406	106	11.02	20	0.05	40	0.90	4193	5	0.05	80	1290	30	10	128	0.26	<10	<10	106	<10	170	—
GN-HM-302	<5	2.78	0.6	40	810	<0.5	<2	2.72	0.5	26	410	129	8.70	20	0.09	50	0.96	2343	5	0.08	70	2130	26	10	184	0.28	<10	<10	122	<10	170	—
GN-HM-303	15	2.46	0.6	80	110	<0.5	<2	2.51	1.0	34	349	124	9.33	20	0.08	20	0.93	2061	7	0.07	85	1490	58	10	160	0.25	<10	<10	114	<10	160	—
GN-HM-304	<5	1.86	0.2	90	40	<0.5	<2	1.50	0.5	30	204	126	9.41	10	0.03	20	0.60	2156	3	0.03	72	950	28	<10	82	0.19	<10	<10	71	<10	110	—
GN-HM-305	20	2.19	0.6	60	150	<0.5	<2	1.63	0.5	30	308	97	9.15	10	0.02	30	0.64	2941	3	0.03	69	1280	24	10	88	0.21	<10	<10	78	<10	120	—
GN-HM-306	<5	2.22	0.4	20	280	<0.5	<2	2.28	<0.5	20	371	56	6.37	10	0.06	50	0.87	1769	2	0.08	48	1750	24	10	144	0.23	<10	<10	104	<10	90	—

Certified by

*Hart Bickler*



# VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1521 PEMBERTON AVE.  
NORTH VANCOUVER, B.C. V7P 2S3  
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT NUMBER: 860548 GA

JOB NUMBER: 860548

MARK MANAGEMENT LIMITED

PAGE 1 OF 7

SAMPLE #	Au
	oob
300	nd
301	nd
302	nd
303	nd
304	nd
305	nd
306	nd
307	nd
308	nd
309	10
310	5
311	5
312	5
313	5
314	5
315	5
316	5
317	5
318	nd
319	nd
320	nd
321	nd
322	nd
323	nd
324	nd
325	nd
326	nd
327	nd
328	nd
329	nd
330	nd
331	nd
332	nd
333	nd
334	nd
335	nd
336	nd
337	nd
338	nd

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



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REPORT NUMBER: 860548 GA

JOB NUMBER: 860548

MARK MANAGEMENT LIMITED

PAGE 2 OF 7

SAMPLE #	Au
339	oob
340	75
342	nd
343	nd
344	nd
345	nd
346	nd
347	5
348	5
349	10
350	nd
351	nd
352	nd
353	nd
354	nd
355	nd
356	nd
357	nd
358	nd
359	nd
360	nd
361	nd
362	nd
363	nd
364	nd
365	nd
366	nd
367	nd
368	nd
369	nd
370	nd
371	nd
372	nd
373	nd
374	nd
375	nd
376	nd
377	nd
378	nd

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



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REPORT NUMBER: 860548 GA

JOB NUMBER: 860548

MARK MANAGEMENT LIMITED

PAGE 3 OF 7

SAMPLE #	Au
379	nd
380	nd
381	nd
382	nd
383	nd
384	5
385	20
386	5
387	nd
388	nd
389	nd
390	nd
391	nd
392	nd
393	nd
394	nd
395	nd
396	nd
397	nd
398	nd
399	5
400	5
401	10
402	nd
403	nd
404	nd
405	nd
406	nd
407	nd
408	nd
409	nd
410	nd
411	5
412	10
413	10
414	nd
415	nd
416	nd
417	nd

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample





# VANGEOCHEM LAB LIMITED

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(604) 251-5656

REPORT NUMBER: 868548 GA

JOB NUMBER: 868548

MARK MANAGEMENT LIMITED

PAGE 4 OF 7

SAMPLE #	Au
418	20
419	10
420	5
421	5
422	10
423	10
424	10
425	5
426	5
427	5
428	5
429	10
430	5
431	10
432	10
433	20
434	5
435	5
436	5
437	10
438	5
439	5
440	5
441	5
442	5
443	5
444	5
445	5
446	10
447	10
448	10
449	5
450	15
452	5
453	5
454	5
455	10
456	5
457	5

DETECTION LIMIT 5

nd = none detected

-- = not analysed

is = insufficient sample



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(604) 251-5656

REPORT NUMBER: 860548 GA

JOB NUMBER: 860548

MARK MANAGEMENT LIMITED

PAGE 5 OF 7

SAMPLE #	Au
458	nd
459	nd
460	nd
461	nd
462	nd
463	15
464	10
465	5
466	15
467	10
468	30
469	5
470	5
471	70
472	5
473	5
474	5
475	5
476	5
477	5
482	5
483	25
485	10
486	10
487	5
489	nd
490	nd
491	nd
492	nd
493	nd
494	nd
495	nd
496	5
497	5
498	10
499	10
500	20
501	10
502	5

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



# VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1521 PEMBERTON AVE.  
NORTH VANCOUVER, B.C. V7P 2S3  
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE  
1630 PANDORA ST.  
VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT NUMBER: 860548 GA

JOB NUMBER: 860548

MARK MANAGEMENT LIMITED

PAGE 6 OF 7

SAMPLE #	Au
503	10
504	5
505	5
506	20
507	5
508	5
509	nd
510	nd
511	nd
512	nd
513	nd
514	30
515	5
516	5
517	5
518	5
519	nd
520	nd
521	nd
522	nd
523	nd
524	nd
525	nd
526	nd
527	nd
528	nd
529	nd
530	nd
531	nd
532	nd
533	nd
534	nd
535	20
536	10
537	15
538	10
539	5
540	10
541	5

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



# VANGEOCHEM LAB LIMITED

MAIN OFFICE  
1521 PEMBERTON AVE.  
NORTH VANCOUVER, B.C. V7P 2S3  
(604) 986-5211 TELEX: 04-352578

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VANCOUVER, B.C. V5L 1L6  
(604) 251-5656

REPORT NUMBER: 860548 GA

JOB NUMBER: 860548

MARK MANAGEMENT LIMITED

PAGE 7 OF 7

SAMPLE #	Au
542	20
543	10

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

VANGEOCHEM LAB LIMITED

MAIN OFFICE: 1521 PEMBERTON AVE. N. VANCOUVER B.C. V7P 2S3 PH: (604)986-5211 TELEX: 04-352578  
 BRANCH OFFICE: 1630 PANDORA ST. VANCOUVER B.C. V5L 1L6 PH: (604)251-5656

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR SN, MN, FE, CA, P, CR, MG, BA, PD, AL, Na, K, W, FT AND SR. AU AND PD DETECTION IS 3 PPM.  
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, = NOT ANALYZED

COMPANY: MARK MANAGEMENT LTD.  
 ATTENTION: A. TROUP & J.M. KOWALCHUK  
 PROJECT: ~~881-650~~  
 ERE GNO

REPORT#: 860548PA  
 JOB#: 860548  
 INVOICE#: 860548NA

DATE RECEIVED: 86/10/20  
 DATE COMPLETED: 86/10/26  
 COPY SENT TO: VANCOUVER & HIXTON OFFICE ANALYST *W. Powell*

PAGE 1 OF 7

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	F %	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	V PPM	ZN PPM	
306	.3	1.14	6	ND	156	ND	.52	.3	6	21	21	1.86	.07	.46	163	2	.01	20	.06	13	ND	ND	ND	ND	26	3	ND	69	
301	.1	1.05	7	ND	147	ND	.54	.1	7	21	29	1.80	.06	.44	263	1	.01	21	.09	10	ND	ND	ND	ND	27	ND	ND	59	
302	.1	.99	10	ND	101	6	.20	.4	7	21	16	1.97	.06	.39	266	2	.01	16	.08	10	ND	ND	ND	ND	13	ND	ND	61	
303	.1	1.03	8	ND	125	ND	.26	.3	6	23	21	2.03	.06	.41	346	2	.01	17	.06	11	ND	ND	ND	ND	17	ND	ND	64	
304	.1	1.06	7	ND	145	ND	.25	.1	8	21	24	1.82	.07	.44	349	2	.01	19	.08	10	ND	ND	ND	ND	16	ND	ND	55	
305	.1	.99	8	ND	133	ND	.26	.3	7	26	19	1.96	.06	.49	268	3	.01	21	.06	6	ND	ND	ND	ND	20	ND	ND	75	
306	.1	2.09	ND	ND	295	ND	.22	.4	8	25	15	2.14	.06	.46	194	ND	.01	20	.13	8	ND	ND	ND	ND	20	ND	ND	94	
307	.2	1.67	ND	ND	324	ND	.42	.4	7	19	24	1.73	.06	.35	194	1	.01	18	.11	7	ND	ND	ND	ND	33	ND	ND	62	
308	.1	1.54	ND	ND	359	ND	.91	.8	11	36	32	2.21	.09	.44	1301	2	.01	21	.13	6	ND	ND	ND	ND	64	ND	ND	116	
309	.1	1.09	7	ND	116	ND	.22	1.1	7	24	27	2.06	.06	.41	270	1	.01	19	.06	10	ND	ND	ND	ND	16	ND	ND	65	
310	.3	.91	10	ND	117	3	.34	.3	6	23	21	1.96	.07	.41	224	1	.01	16	.10	10	ND	ND	ND	ND	22	ND	ND	63	
311	.3	1.03	7	ND	139	ND	.50	.5	10	26	29	2.09	.10	.54	506	1	.01	24	.10	9	ND	ND	ND	ND	29	ND	ND	63	
312	.1	1.32	7	ND	106	3	.25	.2	9	26	29	2.07	.06	.47	306	1	.01	24	.08	11	ND	ND	ND	ND	16	ND	4	50	
313	.1	1.51	ND	ND	101	3	.27	.3	7	26	23	2.35	.06	.47	191	ND	.01	22	.14	6	ND	ND	ND	ND	17	ND	ND	57	
314	.2	.98	5	ND	104	ND	.26	.1	5	18	13	1.64	.06	.35	355	1	.01	11	.06	7	ND	ND	ND	ND	17	ND	ND	56	
315	.1	.68	8	ND	57	3	.17	.1	2	12	5	1.00	.04	.12	66	1	.01	4	.03	10	ND	ND	ND	ND	1	15	ND	ND	42
316	.1	1.43	ND	ND	68	4	.13	.2	5	31	13	2.26	.04	.34	176	ND	.01	14	.18	9	ND	ND	ND	ND	6	ND	ND	78	
317	.1	2.06	ND	ND	110	ND	.14	.5	5	26	14	3.64	.06	.32	195	ND	.01	14	.47	11	ND	ND	ND	ND	12	ND	ND	90	
318	.5	1.59	ND	ND	172	ND	.21	.2	6	22	17	2.34	.06	.35	262	ND	.01	18	.17	8	ND	ND	ND	ND	17	ND	ND	76	
319	.1	.99	9	ND	71	ND	.20	.1	4	18	11	1.51	.06	.30	171	1	.01	15	.06	9	ND	ND	ND	ND	14	ND	ND	51	
320	.1	.66	9	ND	91	ND	.16	.2	3	14	8	1.04	.05	.29	113	1	.01	8	.02	9	ND	ND	ND	ND	14	ND	ND	54	
321	.2	1.66	ND	ND	117	ND	.15	.2	6	26	14	2.76	.07	.45	187	1	.01	17	.07	9	ND	ND	ND	ND	17	ND	ND	60	
322	.2	1.53	ND	ND	89	ND	.16	.2	5	19	11	1.89	.05	.31	177	ND	.01	13	.09	9	ND	ND	ND	ND	14	ND	ND	63	
323	.1	.93	10	ND	58	ND	.12	.3	3	14	7	1.16	.04	.17	103	ND	.01	6	.05	10	ND	ND	ND	ND	11	ND	ND	41	
324	.1	1.45	ND	ND	75	ND	.11	.3	5	19	15	1.86	.05	.25	135	ND	.01	13	.06	9	ND	ND	ND	ND	10	ND	ND	47	
325	.1	1.21	5	ND	87	ND	.13	.1	5	25	15	2.81	.07	.33	135	1	.01	13	.09	12	ND	ND	ND	ND	12	ND	ND	34	
326	.1	.62	9	ND	86	ND	.12	.2	3	14	11	1.41	.06	.20	66	1	.01	6	.01	11	ND	ND	ND	ND	12	ND	ND	23	
327	.1	.76	7	ND	176	ND	.24	.1	4	27	13	1.52	.04	.29	167	1	.01	10	.02	9	ND	ND	ND	ND	21	ND	ND	35	
328	.1	.66	11	ND	56	ND	.10	.3	3	17	8	1.79	.05	.19	134	ND	.01	7	.10	11	ND	ND	ND	ND	9	ND	ND	35	
329	.1	.66	12	ND	68	ND	.12	.2	2	12	6	1.15	.05	.16	71	1	.01	6	.02	9	ND	ND	ND	ND	14	ND	ND	21	
330	.1	.50	11	ND	95	ND	.11	.1	2	11	6	.97	.04	.18	75	1	.01	6	.01	7	ND	ND	ND	ND	13	ND	ND	21	
331	.1	2.83	ND	ND	112	ND	.20	.2	8	37	17	3.52	.06	.53	209	ND	.01	21	.30	8	ND	ND	ND	ND	12	ND	ND	98	
332	.1	1.03	11	ND	52	ND	.14	.1	4	27	13	1.82	.04	.37	179	1	.01	12	.10	9	ND	ND	ND	ND	8	ND	ND	40	
333	.1	.77	12	ND	44	ND	.12	.4	3	29	10	1.33	.04	.27	149	1	.01	9	.06	9	ND	ND	ND	ND	8	ND	ND	39	
334	.1	1.62	ND	ND	100	ND	.22	.2	7	26	16	2.76	.06	.47	306	ND	.01	17	.21	9	ND	ND	ND	ND	14	ND	ND	90	
335	.1	1.12	6	ND	73	ND	.15	.4	6	20	12	2.30	.05	.35	154	1	.01	12	.11	9	ND	ND	ND	ND	14	ND	ND	65	
336	.1	1.02	6	ND	76	ND	.26	.4	5	19	10	2.17	.06	.33	185	1	.01	10	.09	9	ND	ND	ND	ND	14	ND	ND	72	
337	.1	1.52	ND	ND	135	ND	.41	1.3	7	24	11	2.60	.06	.30	577	ND	.01	15	.10	12	ND	ND	ND	ND	20	ND	ND	105	
336	.1	1.20	4	ND	76	ND	.17	.5	4	19	12	1.90	.04	.27	194	1	.01	12	.15	6	ND	ND	ND	ND	11	ND	ND	62	
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1	

SAMPLE NAME	AG PPM	AL I	AS PPM	AU PPM	BA PPM	BT PPM	CA I	CD PPM	CO PPM	CR PPM	CU PPM	FE I	K I	MG I	MN PPM	MO PPM	NA I	NI PPM	P I	PB PPM	PD PPM	PT PPM	Sb PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
339	.1	.72	12	ND	83	3	.24	.1	3	13	10	1.10	.05	.20	158	1	.01	8	.03	14	ND	ND	ND	2	17	ND	ND	55
340	.1	1.35	6	ND	154	3	.44	.1	6	26	27	2.41	.07	.54	321	2	.01	21	.07	15	ND	ND	ND	ND	32	ND	ND	58
342	.1	2.06	ND	ND	72	3	.19	.1	10	28	18	2.41	.07	.39	210	ND	.01	26	.12	11	ND	ND	ND	ND	12	ND	ND	123
343	.5	2.70	ND	ND	103	ND	.12	.1	6	29	36	2.92	.06	.36	150	ND	.01	23	.12	12	ND	ND	ND	ND	11	ND	ND	75
344	.1	1.72	6	ND	85	ND	.20	.1	6	33	21	2.32	.07	.46	212	1	.01	20	.12	13	ND	ND	ND	ND	13	ND	ND	48
345	.1	.55	11	ND	79	ND	.16	.1	1	7	3	.50	.07	.06	60	1	.26	2	.01	16	ND	ND	ND	ND	15	ND	ND	21
346	.1	1.16	5	ND	176	ND	.69	1.3	4	20	27	1.58	.06	.35	407	2	.01	15	.06	11	ND	ND	ND	ND	52	3	ND	62
347	.1	1.04	4	ND	502	ND	2.57	1.2	8	31	45	2.16	.12	.45	4011	9	.01	31	.16	3	ND	ND	ND	ND	157	63	ND	53
348	.9	1.51	6	ND	285	ND	2.12	.6	7	116	57	1.20	.12	.32	330	1	.01	22	.11	5	ND	ND	ND	ND	134	121	ND	52
349	.1	1.52	4	ND	96	ND	.20	.1	4	27	13	2.75	.05	.34	135	1	.01	13	.17	11	ND	ND	ND	ND	14	ND	ND	66
350	.1	.35	13	ND	70	ND	.16	.1	1	7	4	.52	.04	.08	91	1	.08	1	.05	11	ND	ND	ND	2	16	ND	ND	22
351	.1	1.39	5	ND	116	ND	.22	.3	5	25	15	2.68	.07	.32	194	1	.01	11	.38	11	ND	ND	ND	ND	16	ND	ND	72
352	.1	.65	9	ND	152	ND	.28	.1	3	20	13	1.79	.07	.25	254	1	.01	8	.25	13	ND	ND	ND	ND	25	ND	ND	53
353	.1	.46	12	ND	104	ND	.17	.2	3	14	11	1.18	.06	.15	146	2	.01	7	.02	14	ND	ND	ND	4	17	ND	ND	30
354	.3	.80	11	ND	80	ND	.20	.1	4	18	11	1.53	.07	.24	113	1	.01	9	.02	14	ND	ND	ND	1	17	ND	ND	35
355	.1	1.11	7	ND	127	ND	.27	.1	5	22	17	2.04	.07	.35	184	1	.01	14	.14	14	ND	ND	ND	ND	20	ND	ND	66
356	.1	1.81	5	ND	166	ND	.28	.1	8	27	19	2.40	.06	.48	276	ND	.01	25	.20	10	ND	ND	ND	ND	20	ND	ND	76
357	.1	1.41	6	ND	139	ND	.20	.1	6	27	19	2.90	.06	.34	219	1	.01	18	.20	13	ND	ND	ND	ND	17	ND	ND	66
358	.3	.28	12	ND	58	ND	.07	.1	1	5	5	.32	.04	.03	55	1	.32	3	.01	15	ND	ND	ND	1	9	ND	ND	13
359	.3	1.33	4	ND	121	ND	.16	.1	5	22	15	2.00	.07	.32	165	1	.01	18	.08	15	ND	ND	ND	ND	15	ND	ND	64
360	.1	.70	11	ND	96	ND	.14	.1	4	17	11	1.54	.07	.20	105	1	.01	8	.03	15	ND	ND	ND	3	14	ND	ND	37
361	.5	1.43	6	ND	133	ND	.22	.1	6	29	19	3.40	.10	.38	164	1	.01	16	.14	15	ND	ND	ND	ND	17	ND	ND	59
362	.3	1.67	ND	ND	210	ND	.36	.1	8	30	26	3.16	.10	.45	263	1	.01	23	.20	14	ND	ND	ND	ND	26	ND	ND	99
363	.5	1.06	6	ND	136	ND	.20	.4	6	24	14	2.52	.06	.32	247	1	.01	11	.12	15	ND	ND	ND	2	18	ND	ND	68
364	.1	2.08	ND	ND	116	ND	.24	.1	7	29	22	3.08	.06	.44	331	ND	.01	19	.25	9	ND	ND	ND	ND	17	ND	ND	87
365	.1	1.52	ND	ND	170	ND	.26	.1	6	25	15	2.91	.06	.38	306	1	.01	16	.20	13	ND	ND	ND	ND	23	ND	ND	66
366	.1	.89	11	ND	103	ND	.46	.1	6	26	24	2.00	.06	.50	400	1	.01	20	.10	10	ND	ND	ND	ND	27	ND	ND	45
367	.1	.91	7	ND	86	ND	.39	.1	8	24	22	1.91	.07	.48	340	ND	.01	17	.08	10	ND	ND	ND	ND	22	ND	ND	44
368	.1	1.26	7	ND	107	ND	.50	.5	11	31	33	2.50	.10	.64	552	1	.01	25	.13	13	ND	ND	ND	ND	27	ND	ND	59
369	.1	1.58	4	ND	190	ND	.80	.4	15	36	61	3.33	.11	.86	810	1	.01	40	.12	11	ND	ND	ND	17	36	ND	ND	86
370	.1	1.41	ND	ND	159	ND	.61	.3	12	33	44	2.75	.10	.71	665	ND	.01	29	.11	11	ND	ND	ND	ND	32	ND	ND	71
371	.1	.97	9	ND	122	ND	.45	.1	8	25	23	1.97	.07	.51	339	ND	.01	18	.06	9	ND	ND	ND	ND	25	ND	ND	42
372	.1	1.12	6	ND	136	ND	.44	.3	9	37	32	2.18	.07	.63	416	1	.01	24	.07	10	ND	ND	ND	ND	25	ND	ND	58
373	.1	.94	6	ND	91	ND	.46	.1	9	25	23	2.00	.07	.52	419	1	.01	17	.08	13	ND	ND	ND	ND	24	ND	ND	44
374	.1	1.60	3	ND	178	ND	.80	.3	13	37	51	2.99	.11	.83	658	ND	.01	34	.11	12	ND	ND	ND	ND	39	ND	ND	76
375	.1	1.33	7	ND	165	ND	.50	.3	11	30	39	2.56	.08	.64	612	1	.01	28	.08	13	ND	ND	ND	ND	31	ND	ND	62
376	.1	.86	10	ND	83	ND	.44	.1	8	26	19	1.97	.06	.45	424	1	.01	15	.06	10	ND	ND	ND	3	23	ND	ND	39
377	.1	1.13	5	ND	91	ND	.25	.1	9	23	19	2.20	.06	.36	1040	1	.01	18	.13	14	ND	ND	ND	ND	19	ND	ND	52
378	.3	1.67	ND	ND	128	ND	.26	.1	9	29	17	2.79	.06	.51	343	ND	.01	17	.11	25	ND	ND	ND	ND	16	ND	ND	65
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

SAMPLE NAME	AG PPM	AL I	AS PPM	AU PPM	BA PPM	BI PPM	CA I	CD PPM	CO PPM	CR PPM	CU PPM	FE I	K I	MG I	MN PPM	MO PPM	NA I	NI PPM	P I	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
379	.2	1.04	13	ND	97	ND	.30	.3	6	25	17	2.08	.07	.36	160	1	.01	13	.05	15	ND	ND	ND	3	22	ND	ND	51
380	.1	1.18	9	ND	109	ND	.29	.1	6	25	20	2.08	.07	.40	177	1	.01	16	.08	9	ND	ND	ND	ND	20	ND	ND	36
381	.1	.86	12	ND	73	ND	.19	.3	4	16	9	1.41	.06	.19	146	1	.01	6	.05	13	ND	ND	ND	ND	14	ND	ND	37
382	.2	1.01	15	ND	110	ND	.25	.2	6	25	21	2.25	.07	.30	198	2	.01	14	.04	13	ND	ND	ND	ND	19	ND	ND	60
383	.2	1.41	14	ND	126	3	.40	.6	10	36	44	2.90	.08	.58	425	2	.01	30	.08	11	ND	ND	ND	ND	26	ND	ND	90
384	.2	1.37	12	ND	164	3	.68	1.2	9	34	46	2.99	.11	.55	489	2	.01	33	.12	12	ND	ND	ND	ND	46	ND	ND	135
385	.2	1.53	4	ND	157	ND	.22	.1	5	25	12	2.82	.06	.32	255	1	.01	10	.26	11	ND	ND	ND	ND	19	ND	ND	59
386	.2	.63	15	ND	99	ND	.24	.1	2	10	6	.61	.07	.15	130	1	.06	4	.04	14	ND	ND	ND	ND	20	6	ND	23
387	.2	1.36	7	ND	157	ND	.26	.1	5	25	12	2.99	.06	.30	311	1	.01	12	.22	13	ND	ND	ND	ND	22	3	ND	80
388	.6	1.21	9	ND	80	ND	.19	.1	5	20	10	1.93	.06	.30	172	1	.01	10	.08	15	ND	ND	ND	ND	14	4	ND	61
389	.2	1.33	9	ND	141	3	.19	.1	4	18	10	1.72	.08	.29	191	1	.01	11	.06	11	ND	ND	ND	ND	15	3	3	64
390	.2	1.72	6	ND	92	ND	.20	.1	6	24	13	2.45	.07	.30	253	1	.01	13	.10	10	ND	ND	ND	ND	16	ND	ND	86
391	.1	1.31	5	ND	102	ND	.22	.1	4	19	7	2.04	.06	.22	148	ND	.01	7	.17	11	ND	ND	ND	ND	22	ND	ND	81
392	.2	2.27	ND	ND	131	ND	.22	.1	6	26	13	3.49	.08	.32	271	ND	.01	12	.30	9	ND	ND	ND	ND	17	ND	ND	76
393	.2	2.04	ND	ND	129	ND	.22	.1	6	31	14	3.59	.08	.39	167	ND	.01	16	.16	11	ND	ND	ND	ND	20	ND	ND	71
394	.2	1.33	7	ND	119	ND	.27	.1	6	22	12	1.91	.06	.30	271	1	.01	14	.14	11	ND	ND	ND	ND	19	ND	ND	69
395	.2	1.20	10	ND	85	ND	.22	.1	5	22	12	2.07	.07	.27	166	1	.01	11	.11	11	ND	ND	ND	ND	16	ND	ND	41
396	.4	.86	10	ND	130	ND	.20	.1	3	15	8	1.33	.08	.12	92	1	.01	5	.06	15	ND	ND	ND	1	16	ND	ND	29
397	.1	1.43	8	ND	116	ND	.11	.1	3	18	9	2.40	.07	.17	93	1	.01	9	.11	15	ND	ND	ND	ND	11	ND	ND	37
398	.2	.55	14	ND	66	ND	.22	.1	2	7	7	.44	.06	.14	110	1	.06	9	.01	14	ND	ND	ND	3	15	ND	ND	16
399	.1	3.22	ND	ND	131	ND	.17	.1	8	29	15	3.30	.07	.40	327	ND	.01	19	.35	6	ND	ND	ND	ND	12	ND	ND	131
400	.2	2.09	3	ND	97	ND	.16	.1	6	24	17	2.58	.06	.34	212	ND	.01	14	.10	9	ND	ND	ND	ND	11	ND	ND	80
401	.1	2.61	ND	ND	114	3	.22	.3	9	31	36	2.66	.08	.56	252	ND	.01	28	.15	8	ND	ND	ND	ND	14	ND	ND	63
402	.2	1.46	7	ND	82	ND	.15	.1	4	18	7	2.04	.07	.20	290	1	.01	7	.15	13	ND	ND	ND	ND	11	ND	ND	70
403	.1	1.63	3	ND	108	ND	.20	.2	6	22	12	2.36	.07	.30	470	ND	.01	13	.20	10	ND	ND	ND	ND	13	ND	ND	80
404	.1	1.21	10	ND	107	3	.17	.1	5	19	13	2.12	.06	.29	200	1	.01	10	.10	13	ND	ND	ND	ND	15	ND	3	57
405	.1	2.11	7	ND	131	ND	.12	.1	6	24	19	2.82	.07	.32	238	2	.01	21	.20	9	ND	ND	ND	ND	10	ND	ND	133
406	.1	2.25	ND	ND	110	3	.17	.2	10	26	15	2.52	.08	.40	316	ND	.01	18	.20	9	ND	ND	ND	ND	13	ND	ND	128
407	.2	2.04	ND	ND	130	ND	.29	.2	8	26	22	2.70	.08	.45	747	ND	.01	14	.13	12	ND	ND	ND	ND	19	ND	ND	83
408	.1	2.11	3	ND	131	ND	.25	.1	9	35	26	3.06	.08	.51	329	ND	.01	26	.20	9	ND	ND	ND	ND	16	ND	ND	116
409	.2	2.25	ND	ND	108	ND	.28	.5	8	32	22	3.12	.08	.52	323	ND	.01	20	.20	9	ND	ND	ND	ND	19	ND	ND	114
410	.2	1.31	9	ND	168	ND	.40	.3	9	30	17	2.42	.08	.46	826	1	.01	19	.10	13	ND	ND	ND	ND	25	ND	ND	96
411	.2	1.06	9	ND	132	ND	.30	1.1	6	26	25	2.70	.07	.30	221	1	.01	16	.05	10	ND	ND	ND	ND	26	ND	ND	63
412	.1	1.52	9	ND	84	ND	.26	.1	9	43	42	2.67	.07	.45	440	1	.01	25	.04	10	ND	ND	ND	ND	19	ND	3	64
413	.4	2.95	ND	ND	96	ND	.17	.1	9	33	21	2.87	.08	.35	185	ND	.01	21	.16	19	ND	ND	ND	ND	14	ND	ND	86
414	.2	3.16	ND	ND	106	ND	.22	.4	10	37	29	3.33	.08	.48	243	ND	.01	33	.24	8	ND	ND	ND	ND	15	ND	ND	115
415	.4	1.50	6	ND	79	ND	.19	.2	6	24	13	2.27	.06	.34	252	1	.01	14	.08	12	ND	ND	ND	ND	14	ND	ND	72
416	.2	1.33	8	ND	62	ND	.20	.1	4	20	12	2.00	.07	.26	194	1	.01	9	.13	13	ND	ND	ND	ND	14	ND	ND	42
417	.1	1.67	ND	ND	82	ND	.14	.1	4	19	11	2.24	.07	.22	145	ND	.01	9	.15	14	ND	ND	ND	ND	11	ND	ND	65
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA I	CD PPM	CO PPM	CR PPM	CU PPM	FE I	K I	MG I	MN PPM	MO PPM	NA I	NI PPM	P I	Pb PPM	PD PPM	PT PPM	SB PPM	SN PPM	SK PPM	U PPM	W PPM	ZN PPM
418	.1	1.97	ND	ND	134	ND	.19	.1	6	24	13	2.63	.07	.28	459	ND	.01	10	.30	10	ND	ND	ND	ND	15	ND	ND	102
419	1.1	1.20	8	ND	148	ND	.30	.2	6	22	12	2.08	.07	.32	696	1	.01	10	.08	10	ND	ND	ND	ND	24	ND	ND	109
420	.5	1.56	ND	ND	151	ND	.29	.2	6	31	17	3.04	.08	.36	287	1	.01	13	.39	11	ND	ND	ND	ND	23	ND	ND	69
421	.4	.64	16	ND	77	ND	.17	.1	2	11	7	.85	.06	.11	140	1	.01	4	.03	12	ND	ND	ND	2	15	ND	ND	31
422	.5	.97	6	ND	145	ND	.28	.3	6	23	13	2.00	.08	.28	782	1	.01	10	.08	12	ND	ND	ND	ND	18	ND	ND	69
423	.5	1.37	6	ND	135	ND	.27	.2	9	26	21	2.42	.07	.34	651	2	.01	13	.07	9	ND	ND	ND	ND	24	ND	ND	74
424	.2	1.36	7	ND	113	ND	.28	.1	5	27	15	2.66	.07	.36	170	1	.01	11	.20	10	ND	ND	ND	ND	21	ND	ND	66
425	.1	2.08	ND	ND	553	ND	.17	.1	7	26	14	2.12	.06	.32	164	ND	.01	17	.15	8	ND	ND	ND	ND	14	ND	ND	107
426	.1	1.39	9	ND	121	ND	.25	.1	5	24	12	2.25	.07	.29	157	1	.01	12	.20	9	ND	ND	ND	ND	21	ND	ND	47
427	.2	.68	15	ND	56	ND	.16	.1	3	11	5	.75	.05	.20	86	1	.01	5	.01	12	ND	ND	ND	3	13	ND	ND	19
428	.2	.61	14	ND	57	ND	.20	.2	2	9	4	.54	.06	.11	72	1	.12	2	.01	14	ND	ND	ND	3	16	ND	ND	24
429	.2	.89	12	ND	106	ND	.22	.1	4	15	7	1.10	.06	.25	110	1	.01	6	.03	11	ND	ND	ND	ND	18	ND	ND	35
430	.1	1.36	7	ND	95	ND	.25	.1	7	26	16	2.25	.07	.35	216	1	.01	18	.15	8	ND	ND	ND	ND	15	ND	ND	45
431	.1	2.15	5	ND	140	ND	.20	.1	9	32	23	3.04	.08	.48	192	ND	.01	24	.05	9	ND	ND	ND	ND	16	ND	ND	54
432	.2	1.21	11	ND	71	ND	.17	.1	5	20	10	2.09	.07	.27	142	1	.01	9	.03	10	ND	ND	ND	ND	15	ND	ND	37
433	.4	1.27	38	ND	178	ND	.16	.5	12	27	68	3.89	.10	.40	674	9	.01	47	.08	22	ND	ND	8	ND	13	ND	ND	195
434	.5	.83	14	ND	65	3	.14	.1	4	18	10	1.54	.11	.19	131	1	.01	8	.03	16	ND	ND	ND	ND	12	4	ND	52
435	.4	1.33	10	ND	74	ND	.16	.3	5	20	11	2.49	.10	.25	152	1	.01	11	.13	14	ND	ND	ND	ND	12	ND	ND	89
436	.2	1.20	16	ND	89	ND	.32	.1	9	34	46	2.57	.08	.58	398	2	.01	31	.07	13	ND	ND	4	ND	18	ND	ND	85
437	.5	1.38	10	ND	164	ND	.40	.2	8	38	35	2.50	.10	.54	587	2	.01	31	.08	14	ND	ND	ND	ND	23	ND	ND	92
438	.5	2.77	ND	ND	179	ND	.25	.1	14	37	52	3.24	.10	.69	303	ND	.01	44	.10	8	ND	ND	ND	ND	22	ND	ND	66
439	.1	2.20	5	ND	122	4	1.33	.1	43	74	186	5.25	.16	1.77	1845	ND	.01	89	.07	9	ND	ND	ND	ND	44	ND	ND	146
440	3.1	.35	58	ND	198	ND	.22	9.6	18	24	115	3.25	.10	.12	1161	22	.01	41	.13	33	ND	ND	10	ND	19	ND	ND	278
441	1.4	1.18	29	ND	177	ND	.56	1.2	14	31	47	3.94	.12	.46	712	6	.01	36	.05	16	ND	ND	4	ND	38	ND	ND	202
442	.5	1.95	10	ND	142	ND	.22	.5	12	36	37	3.12	.10	.56	493	1	.01	31	.06	12	ND	ND	ND	ND	19	ND	ND	91
443	.4	1.72	6	ND	86	ND	.26	.1	7	34	19	3.44	.10	.45	255	1	.01	24	.16	14	ND	ND	ND	ND	17	ND	ND	85
444	.2	1.37	13	ND	88	ND	.15	.3	5	24	11	2.41	.08	.28	171	1	.01	10	.13	13	ND	ND	ND	ND	12	ND	ND	78
445	.5	1.12	12	ND	68	4	.16	.1	4	17	7	1.63	.08	.20	141	1	.01	5	.06	17	ND	ND	ND	ND	11	ND	ND	70
446	.5	.89	14	ND	60	ND	.17	.2	4	15	9	1.21	.08	.20	100	1	.01	6	.04	22	ND	ND	ND	4	13	ND	ND	42
447	.7	2.33	5	ND	153	3	.35	.6	13	38	59	3.27	.11	.88	447	1	.01	39	.08	12	ND	ND	ND	ND	26	ND	ND	99
448	.9	1.29	26	ND	145	ND	.29	1.2	9	32	59	3.17	.10	.35	451	5	.01	39	.07	17	ND	ND	16	ND	22	ND	ND	236
449	.1	1.37	19	ND	135	ND	.30	.8	15	29	60	4.12	.11	.86	1107	4	.01	34	.11	15	ND	ND	4	ND	21	ND	ND	136
450	.4	.16	30	ND	80	ND	.07	.1	25	12	242	6.33	.16	.07	926	2	.01	73	.12	56	ND	ND	12	ND	7	ND	ND	237
452	.1	2.97	9	ND	206	ND	.56	1.1	29	40	66	6.44	.15	1.67	2039	2	.01	40	.14	13	ND	ND	ND	ND	36	ND	8	145
453	.1	1.89	10	ND	168	ND	.29	.5	13	35	31	3.65	.10	.53	534	4	.01	22	.06	15	ND	ND	ND	ND	25	ND	ND	79
454	.1	1.85	18	ND	115	3	.32	.2	12	38	46	3.55	.12	.86	476	1	.01	33	.14	11	ND	ND	ND	ND	25	ND	ND	115
455	.2	2.09	4	ND	196	ND	.40	.8	16	40	31	3.74	.10	.88	1245	2	.01	26	.19	11	ND	ND	ND	ND	25	ND	ND	117
456	.2	1.88	6	ND	94	6	.26	.2	9	31	21	2.37	.08	.56	257	ND	.01	29	.17	12	ND	ND	ND	ND	19	ND	ND	94
457	.1	1.97	8	ND	102	ND	.22	.3	9	31	15	2.68	.08	.44	221	1	.01	22	.17	9	ND	ND	ND	ND	15	ND	ND	101
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1



SAMPLE NAME	AG	AL	AS	AU	BA	BI	CA	CD	CO	CR	CU	FE	K	MG	MN	MO	NA	NI	P	PB	PD	PT	SB	SM	SR	U	V	ZN
	PPM	I	PPM	PPM	PPM	PPM	I	PPM	PPM	PPM	PPM	I	I	I	PPM	PPM	I	PPM	I	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
458	.1	2.10	ND	ND	89	ND	.21	.1	8	35	20	2.85	.05	.57	270	ND	.01	31	.17	8	ND	ND	ND	ND	15	ND	ND	103
459	.1	.95	11	ND	83	ND	.19	.1	4	15	6	1.47	.04	.24	206	1	.01	7	.07	12	ND	ND	ND	ND	13	ND	ND	63
460	.1	1.73	4	ND	290	ND	.40	.1	9	33	30	2.63	.06	.66	1033	1	.01	25	.03	10	ND	ND	ND	ND	32	ND	ND	71
461	.1	1.12	9	ND	75	ND	.25	.1	6	24	11	1.86	.05	.31	431	1	.01	12	.06	12	ND	ND	ND	ND	17	ND	ND	59
462	.3	1.21	9	ND	80	ND	.19	.1	4	18	12	1.62	.04	.24	127	1	.01	9	.06	10	ND	ND	ND	ND	15	ND	ND	57
463	.1	1.85	3	ND	125	ND	.23	.4	8	30	20	2.72	.05	.50	368	ND	.01	18	.09	8	ND	ND	ND	ND	16	ND	ND	135
464	.1	1.11	8	ND	183	ND	.64	.6	9	32	25	2.12	.06	.61	673	1	.01	18	.09	10	ND	ND	ND	ND	31	ND	ND	90
465	.1	2.34	ND	ND	116	ND	.39	.1	10	42	25	4.01	.08	.74	321	ND	.01	25	.30	7	ND	ND	ND	ND	21	ND	ND	85
466	.1	1.58	4	ND	87	ND	.17	.1	6	28	14	2.65	.05	.36	229	ND	.01	15	.15	11	ND	ND	ND	ND	13	ND	ND	72
467	.1	2.55	ND	ND	103	ND	.18	.1	7	37	20	3.67	.05	.43	278	ND	.01	21	.35	7	ND	ND	ND	ND	13	ND	ND	94
468	.1	2.49	ND	ND	108	ND	.22	.1	8	32	26	3.19	.06	.53	409	ND	.01	26	.27	6	ND	ND	ND	ND	15	ND	ND	90
469	.1	2.13	ND	ND	94	ND	.19	.1	8	33	18	3.47	.05	.44	378	ND	.01	19	.23	8	ND	ND	ND	ND	12	ND	ND	91
470	.1	1.57	7	ND	96	ND	.20	.1	6	32	16	3.32	.06	.34	181	1	.01	14	.19	12	ND	ND	ND	ND	14	ND	ND	71
471	.2	1.30	8	ND	59	ND	.19	.1	5	23	10	2.13	.05	.26	189	ND	.01	9	.11	11	ND	ND	ND	ND	14	ND	ND	55
472	.1	2.29	ND	ND	79	ND	.15	.1	6	29	14	3.52	.06	.36	197	ND	.01	13	.19	8	ND	ND	ND	ND	13	ND	ND	94
473	.2	3.15	ND	ND	80	ND	.15	.1	7	37	17	3.97	.06	.39	350	ND	.01	14	.31	9	ND	ND	ND	ND	12	ND	ND	99
474	.3	1.85	ND	ND	59	ND	.23	.1	6	27	15	2.94	.06	.41	352	ND	.01	12	.16	14	ND	ND	ND	ND	16	ND	ND	72
475	.2	1.90	3	ND	104	ND	.16	.1	4	22	11	2.21	.05	.25	161	ND	.01	9	.13	14	ND	ND	ND	ND	12	ND	ND	67
476	.3	2.12	ND	ND	109	ND	.19	.1	8	26	17	2.79	.05	.40	343	ND	.01	21	.23	9	ND	ND	ND	ND	13	ND	ND	126
477	.2	1.19	ND	ND	316	ND	.78	.1	7	23	19	2.54	.07	.43	268	1	.01	18	.03	11	ND	ND	ND	1	51	ND	ND	38
482	.4	2.81	ND	ND	408	ND	.75	.1	8	26	65	2.99	.09	.50	390	ND	.01	15	.03	6	ND	ND	ND	ND	42	ND	ND	47
483	1.1	2.93	5	ND	393	ND	1.14	1.0	14	62	124	3.84	.13	.76	1265	ND	.01	55	.06	10	ND	ND	ND	ND	64	7	3	90
485	.1	1.96	5	ND	220	ND	.83	1.1	11	33	36	3.01	.09	.59	863	ND	.01	27	.06	9	ND	ND	ND	ND	82	ND	ND	126
486	.1	1.54	3	ND	339	ND	.41	.7	12	25	18	2.22	.06	.51	1220	ND	.01	22	.13	11	ND	ND	ND	ND	28	ND	ND	167
487	.2	1.72	3	ND	226	ND	.30	.4	10	30	23	2.60	.07	.59	701	ND	.01	25	.18	11	ND	ND	ND	ND	22	ND	ND	165
489	.2	1.73	6	ND	208	ND	.48	1.4	10	28	27	3.06	.08	.58	823	2	.01	24	.06	12	ND	ND	ND	ND	32	ND	ND	160
490	.1	1.22	10	ND	126	4	.17	.5	6	19	11	2.24	.05	.28	470	1	.01	11	.12	11	ND	ND	ND	ND	13	ND	ND	147
491	.1	1.37	9	ND	122	ND	.21	.7	8	26	18	2.58	.05	.33	676	1	.01	16	.13	8	ND	ND	ND	ND	16	ND	ND	112
492	.3	1.67	6	ND	238	ND	.26	.5	9	28	22	2.85	.05	.50	1125	ND	.01	23	.10	8	ND	ND	ND	ND	20	ND	5	114
493	.3	1.24	7	ND	108	4	.24	.1	7	24	16	2.47	.05	.43	271	1	.01	14	.08	9	ND	ND	ND	ND	19	ND	ND	57
494	.2	1.93	ND	ND	134	ND	.33	.1	8	28	20	3.24	.06	.56	281	ND	.01	22	.19	7	ND	ND	ND	ND	25	ND	ND	89
495	.2	1.22	7	ND	160	ND	.32	.1	6	21	15	2.39	.06	.34	305	1	.01	13	.18	11	ND	ND	ND	ND	28	ND	ND	78
496	.2	2.50	ND	ND	118	3	.21	.1	8	36	20	3.73	.07	.52	279	ND	.01	22	.39	9	ND	ND	ND	ND	15	ND	ND	136
497	.7	2.26	ND	ND	111	ND	.20	.1	9	34	28	3.19	.06	.55	297	ND	.01	27	.18	7	ND	ND	ND	ND	15	ND	ND	78
498	.3	.80	13	ND	95	ND	.17	.1	4	19	10	1.61	.06	.21	330	1	.01	9	.06	11	ND	ND	ND	ND	14	ND	ND	57
499	.4	1.61	7	ND	136	ND	.38	.1	9	31	23	3.20	.07	.61	362	ND	.01	19	.15	10	ND	ND	ND	ND	26	ND	ND	90
500	.1	1.63	8	ND	85	ND	.21	.1	7	30	19	2.63	.05	.46	283	ND	.01	23	.21	10	ND	ND	ND	ND	15	ND	ND	75
501	.3	1.06	11	ND	126	ND	.26	.1	7	22	14	2.13	.05	.38	318	1	.01	13	.05	10	ND	ND	ND	1	18	ND	ND	60
502	.1	1.02	9	ND	104	ND	.19	.1	6	21	11	1.73	.04	.31	439	ND	.01	12	.06	10	ND	ND	ND	ND	13	ND	ND	93
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

SAMPLE NAME	AG PPM	AL I	AS PPM	AU PPM	BA PPM	BI PPM	CA I	CD PPM	CO PPM	CR PPM	CU PPM	FE I	K I	MG I	NM PPM	MO PPM	NA I	NI PPM	F I	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZM PPM
503	.1	1.62	ND	ND	114	3	.25	.3	8	29	25	2.71	.05	.51	282	ND	.01	21	.13	8	ND	ND	ND	ND	18	ND	ND	74
504	.1	1.67	ND	ND	98	3	.29	.2	8	27	16	2.76	.06	.56	287	ND	.01	17	.09	5	ND	ND	ND	ND	20	ND	ND	119
505	.2	.96	6	ND	86	3	.24	.4	4	18	7	1.41	.05	.26	272	1	.01	6	.05	9	ND	ND	ND	ND	15	ND	ND	64
506	.2	1.66	ND	ND	91	ND	.17	.2	5	23	15	2.54	.06	.33	220	ND	.01	14	.12	8	ND	ND	ND	ND	14	ND	ND	77
507	.6	1.25	3	ND	140	ND	.18	.3	4	21	10	2.37	.07	.26	202	1	.01	9	.14	14	ND	ND	ND	ND	14	ND	ND	63
508	.6	1.36	3	ND	118	ND	.25	.4	6	19	17	1.93	.08	.31	282	1	.01	12	.08	12	ND	ND	ND	ND	16	ND	ND	65
509	.3	1.84	ND	ND	191	3	.49	.6	10	37	24	3.07	.11	.70	571	ND	.01	23	.19	10	ND	ND	ND	ND	30	ND	ND	106
510	.4	1.15	7	ND	138	5	.25	.1	6	23	15	2.26	.10	.34	148	2	.01	15	.03	14	ND	ND	ND	ND	23	ND	ND	52
511	.5	1.04	5	ND	161	3	.27	.4	6	23	12	2.29	.09	.33	316	1	.01	12	.13	13	ND	ND	ND	ND	21	ND	ND	85
512	.6	1.15	6	ND	266	ND	.41	.3	9	25	28	2.14	.09	.33	711	2	.01	16	.04	14	ND	ND	ND	ND	37	ND	ND	54
513	.6	1.42	4	ND	199	4	.37	.4	9	27	20	2.88	.11	.39	950	1	.01	20	.11	14	ND	ND	ND	ND	27	ND	ND	94
514	.4	1.69	4	ND	169	ND	.24	.1	8	32	23	2.85	.09	.50	536	1	.01	24	.19	13	ND	ND	ND	ND	16	ND	ND	72
515	.5	.73	11	ND	100	ND	.21	.1	4	16	9	1.29	.08	.24	216	1	.01	8	.04	15	ND	ND	ND	ND	18	ND	ND	41
516	.3	1.32	8	ND	120	5	.25	.2	8	27	22	2.18	.10	.47	269	1	.01	20	.11	12	ND	ND	ND	ND	17	ND	ND	73
517	.3	1.36	8	ND	124	ND	.25	.3	7	26	17	2.28	.10	.42	227	1	.01	19	.19	13	ND	ND	ND	ND	17	ND	ND	71
518	.3	1.00	8	ND	104	ND	.25	.2	6	21	11	1.68	.09	.33	270	1	.01	14	.07	12	ND	ND	ND	ND	17	ND	ND	60
519	.5	.71	11	ND	140	ND	.27	.1	5	18	10	1.48	.08	.20	310	1	.01	8	.03	14	ND	ND	ND	1	22	ND	ND	43
520	.5	2.21	ND	ND	216	ND	.51	.5	10	31	31	2.21	.12	.61	317	ND	.01	25	.05	12	ND	ND	ND	ND	38	ND	ND	64
521	.3	1.92	ND	ND	110	ND	.27	.5	11	36	26	3.44	.11	.71	884	1	.01	28	.23	16	ND	ND	ND	ND	20	ND	ND	107
522	.2	1.51	ND	ND	67	ND	.17	.4	7	24	10	2.05	.10	.45	200	1	.01	23	.05	11	ND	ND	ND	ND	14	ND	ND	69
523	.4	1.51	3	ND	102	ND	.26	.1	9	28	14	1.97	.10	.54	354	1	.01	20	.06	12	ND	ND	ND	ND	21	ND	ND	96
524	.3	1.09	8	ND	98	ND	.35	.3	6	21	13	1.78	.10	.37	223	1	.01	14	.07	14	ND	ND	ND	ND	22	ND	ND	51
525	.4	1.34	5	ND	160	ND	.29	.6	8	24	22	2.93	.10	.39	327	2	.01	13	.05	14	ND	ND	ND	ND	24	ND	ND	58
526	.2	2.30	ND	ND	321	ND	.85	.3	13	31	33	2.92	.13	.74	1729	1	.01	21	.05	12	ND	ND	ND	ND	52	ND	ND	78
527	.6	2.03	ND	ND	121	ND	.22	.3	9	30	18	2.82	.10	.52	282	1	.01	24	.26	13	ND	ND	ND	ND	15	ND	ND	145
528	.3	1.10	10	ND	122	ND	.18	.1	5	20	11	1.73	.09	.29	454	1	.01	10	.10	14	ND	ND	ND	ND	15	ND	ND	59
529	.3	1.31	5	ND	86	ND	.14	.3	3	15	7	1.30	.08	.15	132	1	.01	6	.08	15	ND	ND	ND	ND	10	ND	ND	35
530	.1	1.45	5	ND	86	ND	.15	.2	6	25	13	2.34	.08	.30	250	1	.01	12	.15	13	ND	ND	ND	ND	12	ND	ND	55
531	.3	1.99	3	ND	72	ND	.11	.1	7	25	13	2.08	.09	.29	143	ND	.01	13	.10	14	ND	ND	ND	ND	10	ND	ND	68
532	.4	2.01	ND	ND	103	ND	.23	.2	10	33	23	2.95	.11	.54	337	1	.01	28	.23	13	ND	ND	ND	ND	16	ND	ND	91
533	.3	1.08	11	ND	57	ND	.17	.1	5	21	12	1.81	.09	.25	387	1	.01	9	.10	16	ND	ND	ND	ND	12	ND	ND	45
534	.2	1.70	6	ND	88	ND	.15	.3	8	28	20	2.04	.09	.39	270	1	.01	22	.08	13	ND	ND	ND	ND	12	ND	ND	73
535	.3	1.77	3	ND	88	ND	.22	.2	7	25	19	2.57	.10	.38	330	1	.01	16	.15	15	ND	ND	ND	ND	15	ND	ND	73
536	.5	2.04	ND	ND	97	ND	.27	.5	8	24	14	2.68	.10	.47	237	ND	.01	13	.16	14	ND	ND	ND	ND	14	ND	ND	138
537	.1	1.24	7	ND	83	ND	.23	.2	5	17	9	1.89	.09	.26	274	1	.01	7	.09	13	ND	ND	ND	ND	12	ND	ND	60
538	.1	2.43	ND	ND	188	ND	.30	.2	11	27	40	3.81	.10	.86	711	ND	.01	20	.19	9	ND	ND	ND	ND	17	ND	3	113
539	.2	2.31	ND	ND	104	ND	.53	.3	12	37	50	3.63	.10	.88	506	ND	.01	18	.14	8	ND	ND	ND	ND	22	ND	ND	89
540	.1	2.46	ND	ND	107	ND	.52	.4	12	29	23	3.37	.10	.83	453	ND	.01	14	.06	8	ND	ND	ND	ND	18	ND	ND	102
541	.2	1.70	ND	ND	99	ND	.35	.2	8	21	15	2.54	.09	.46	283	1	.01	11	.14	12	ND	ND	ND	ND	18	ND	4	111
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

SAMPLE NAME	AG PPM	AL I	AS PPM	AU PPM	BA PPM	BI PPM	CA I	CD PPM	CO PPM	CR PPM	CU PPM	FE I	K I	HG I	MN PPM	MO PPM	MA I	NI PPM	P I	PB PPM	PD PPM	PT PPM	SB PPM	SN PPM	SR PPM	U PPM	W PPM	ZN PPM
S42	.2	2.54	ND	ND	189	3	.44	.2	11	27	37	3.53	.08	.87	542	ND	.01	17	.15	9	ND	ND	ND	ND	20	ND	ND	120
S43	.3	1.91	13	ND	101	ND	.35	.2	13	39	33	3.07	.06	.67	360	1	.01	41	.10	13	ND	ND	3	ND	21	ND	4	50
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1

**Appendix B: Rock Sample Results**



# Chemex Labs Ltd.

-Analytical Chemists -Geochemists -Registered Assayers

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

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

Semi quantitative multi element ICP analysis

Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED  
1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. # : A8614608-001-A  
INVOICE # : I8614608  
DATE : 21-JUL-86  
P.O. # : NONE  
EZEKIEL-GNORTH

COMMENTS :  
ATTN: L. HOLMGREN

Sample description	Au ppb FA-AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
8701	<5	2.19	0.2	10	150	<0.5	<2	13.47	<0.5	12	62	77	3.35	30	0.34	<10	1.26	1800	2	<0.01	19	1110	18	10	549	0.08	<10	<10	63	<10	60	--
8702	<5	1.41	0.2	10	180	<0.5	<2	17.06	<0.5	8	63	54	2.53	30	0.20	<10	0.99	1000	1	<0.01	20	1010	16	10	969	<0.01	<10	<10	38	<10	50	--
8703	<5	0.94	0.2	30	260	<0.5	<2	2.76	<0.5	14	207	25	3.02	10	0.22	10	0.78	734	1	0.10	25	1200	8	<10	133	<0.01	<10	<10	33	<10	60	--
8704	10	0.71	0.2	40	220	<0.5	<2	10.07	<0.5	12	80	64	3.65	20	0.18	<10	0.98	2630	7	0.01	25	1300	16	10	262	<0.01	<10	<10	34	<10	70	--
8705	<5	3.66	0.2	10	150	<0.5	<2	3.75	<0.5	14	84	57	4.12	20	0.39	<10	1.23	873	1	0.10	14	1230	10	<10	236	0.29	<10	<10	141	<10	80	--
8706	<5	1.16	0.2	<10	180	0.5	<2	10.43	0.5	10	40	46	3.00	20	0.28	<10	3.80	1001	<1	<0.01	17	780	12	10	337	<0.01	<10	<10	48	<10	40	--
8707	<5	0.68	0.2	20	200	<0.5	<2	3.71	<0.5	8	106	23	2.76	10	0.11	<10	0.70	836	1	0.02	15	980	8	<10	95	<0.01	<10	<10	18	<10	50	--
8708	<5	1.55	0.2	20	210	0.5	<2	5.83	<0.5	42	414	73	7.63	20	<0.01	<10	2.79	1038	15	<0.01	187	2180	10	10	494	<0.01	<10	<10	204	<10	250	--
8709	5	3.42	0.2	70	150	<0.5	<2	6.26	0.5	44	367	189	7.18	30	<0.01	<10	4.22	1160	1	<0.01	108	1150	10	10	542	<0.01	<10	<10	217	<10	140	--
8710	<5	0.89	0.2	10	520	<0.5	<2	8.57	<0.5	16	59	17	4.64	20	0.11	<10	2.37	743	1	<0.01	17	1550	12	10	641	<0.01	<10	<10	124	<10	90	--
8711	<5	2.08	0.2	20	180	1.0	<2	5.67	<0.5	10	39	61	3.29	20	0.57	<10	0.99	1409	<1	0.04	14	1190	14	<10	346	<0.01	<10	<10	46	<10	70	--

Certified by

*Hart Bichler*



# Chemex Labs Ltd.

Analytical Chemists    Geochemists    Registered Assayers

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

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

'SAME ADDRESS'

Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : MARK MANAGEMENT LIMITED

1900 - 999 W. HASTINGS ST.  
VANCOUVER, B.C.  
V6C 2W2

CERT. # : A8614813-001-A  
INVOICE # : 18614813  
DATE : 21-JUL-86  
P.O. # : NONE  
EZEKIEL/G NORTH

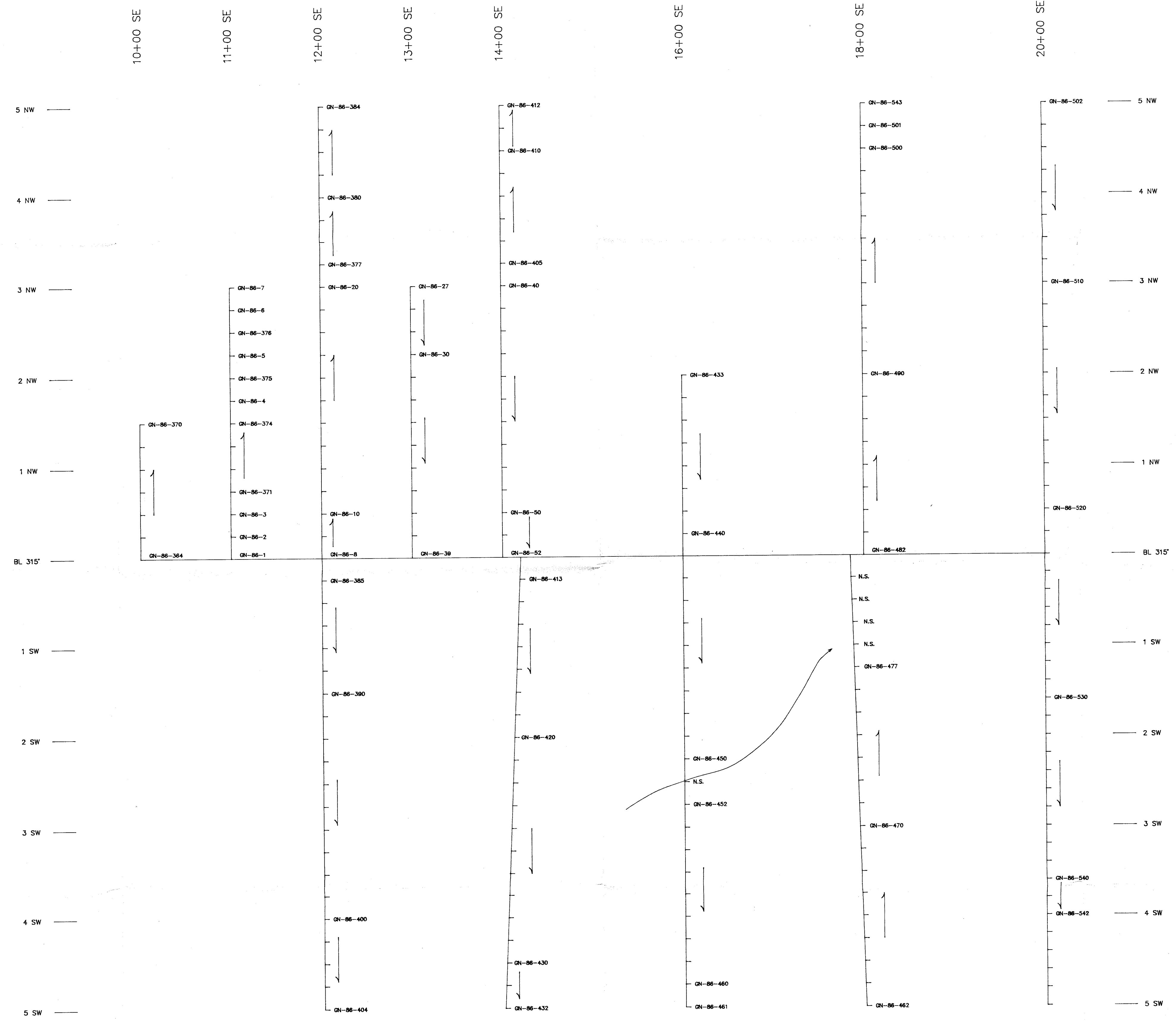
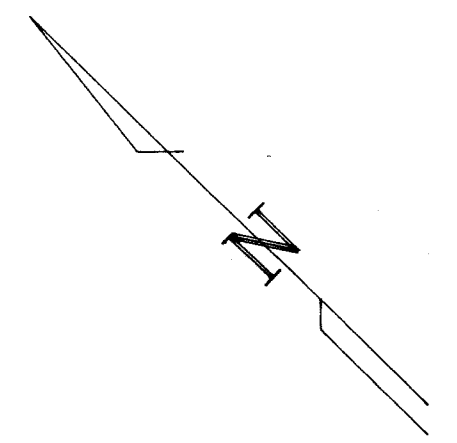
Nitric-Aqua-Regia digestion of 0.5 gm of material followed by ICP analysis. Since this digestion is incomplete for many minerals, values reported for Al, Sb, Ba, Be, Ca, Cr, Ga, La, Mg, K, Na, Sr, Tl, Ti, W and V can only be considered as semi-quantitative.

COMMENTS :  
✓ CC: L. HOLMGREN

Sample description	Au ppb FA+AA	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
8712	<5	0.21	1.2	<10	370	<0.5	<2	0.26	<0.5	1	489	14	0.85	<10	0.04	<10	0.09	147	<1	0.02	11	230	52	<10	17	<0.01	<10	<10	3	<10	110
8713	250	0.73	15.2	40	110	<0.5	<2	2.28	0.5	15	555	1984	2.84	10	<0.01	<10	0.58	378	1	0.06	104	360	22	<10	27	<0.01	<10	<10	27	<10	240

Certified by

*Hart Bickler*

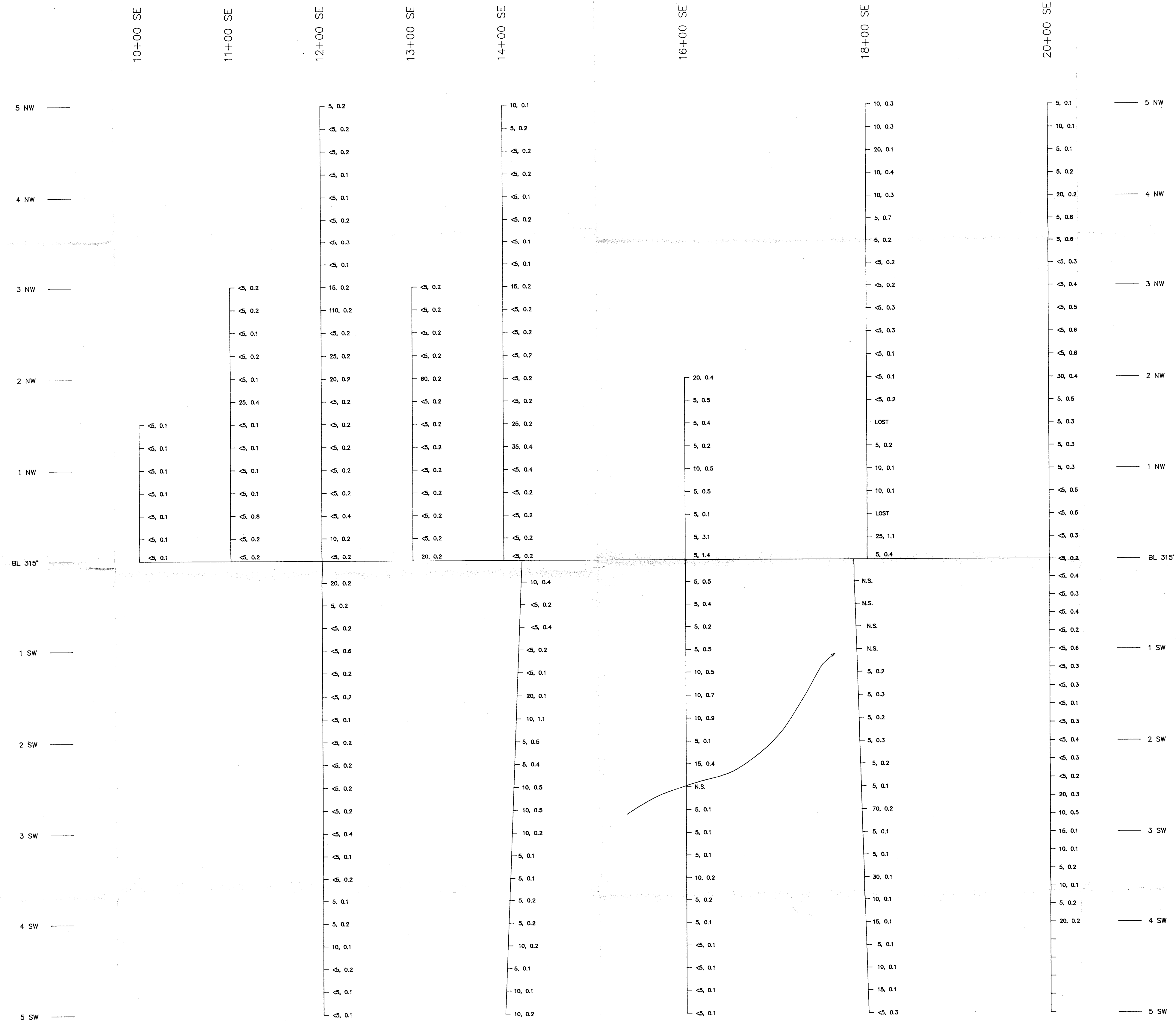
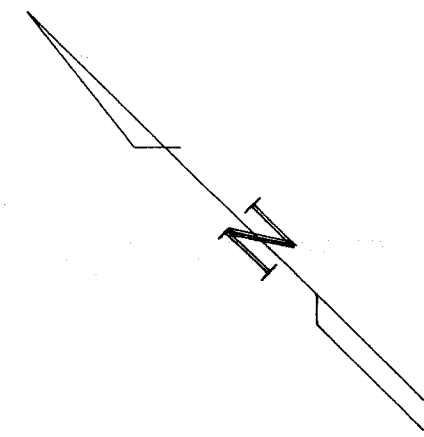


LEGEND:  
GN-86-456 SOIL SAMPLE LOCATION AND NUMBER

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ASSESSMENT REPORT**

**15,879**

<b>EZEKIEL EXPLORATIONS LTD.</b>	
G-NORTH CARIBOO M.D.-B.C. NTS: 93 J/14	
GN7-GARNET GRID EXTENSION	
<b>SOIL SAMPLE LOCATION MAP</b>	
SCALE IN METRES 0 50 100 200	
DATE: DEC., 1986	FIGURE: 4



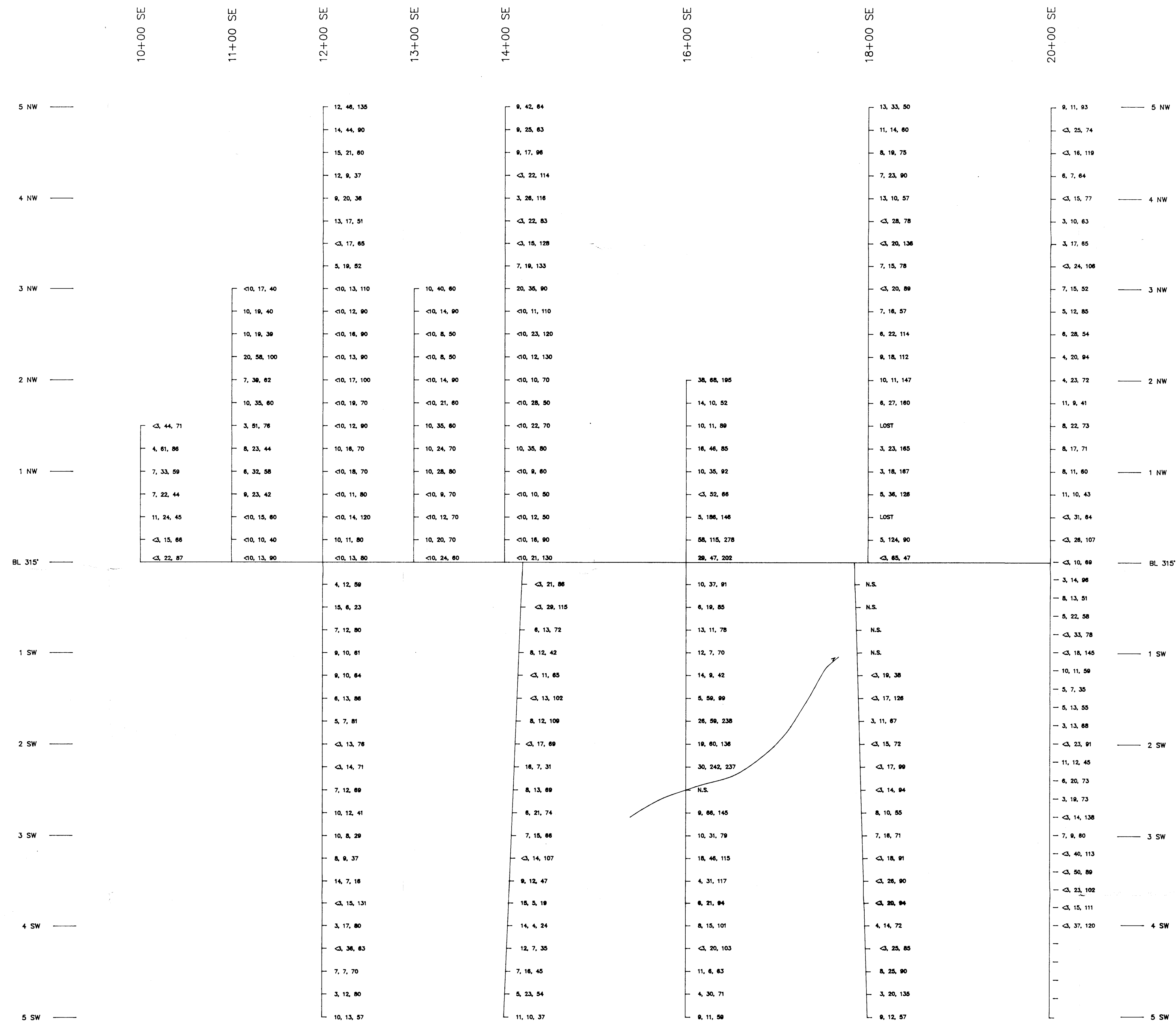
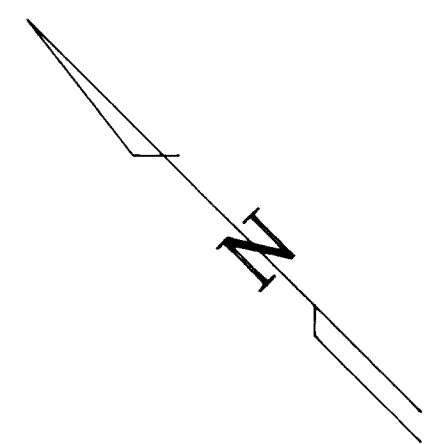
LEGEND:  
15, 3.1 Au RESULT IN ppb, Ag RESULT IN ppm

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,879**

**EZEKIEL EXPLORATIONS LTD.**  
G-NORTH  
CARIBOO M.D.-B.C. NTS: 93 J/14  
GN7-GARNET GRID EXTENSION  
**GEOCHEMISTRY SURVEY**  
Au, Ag RESULTS  
SCALE IN METRES  
0 50 100 200  
DATE: DEC., 1986  
BY: JK/rwr  
FIGURE: 5





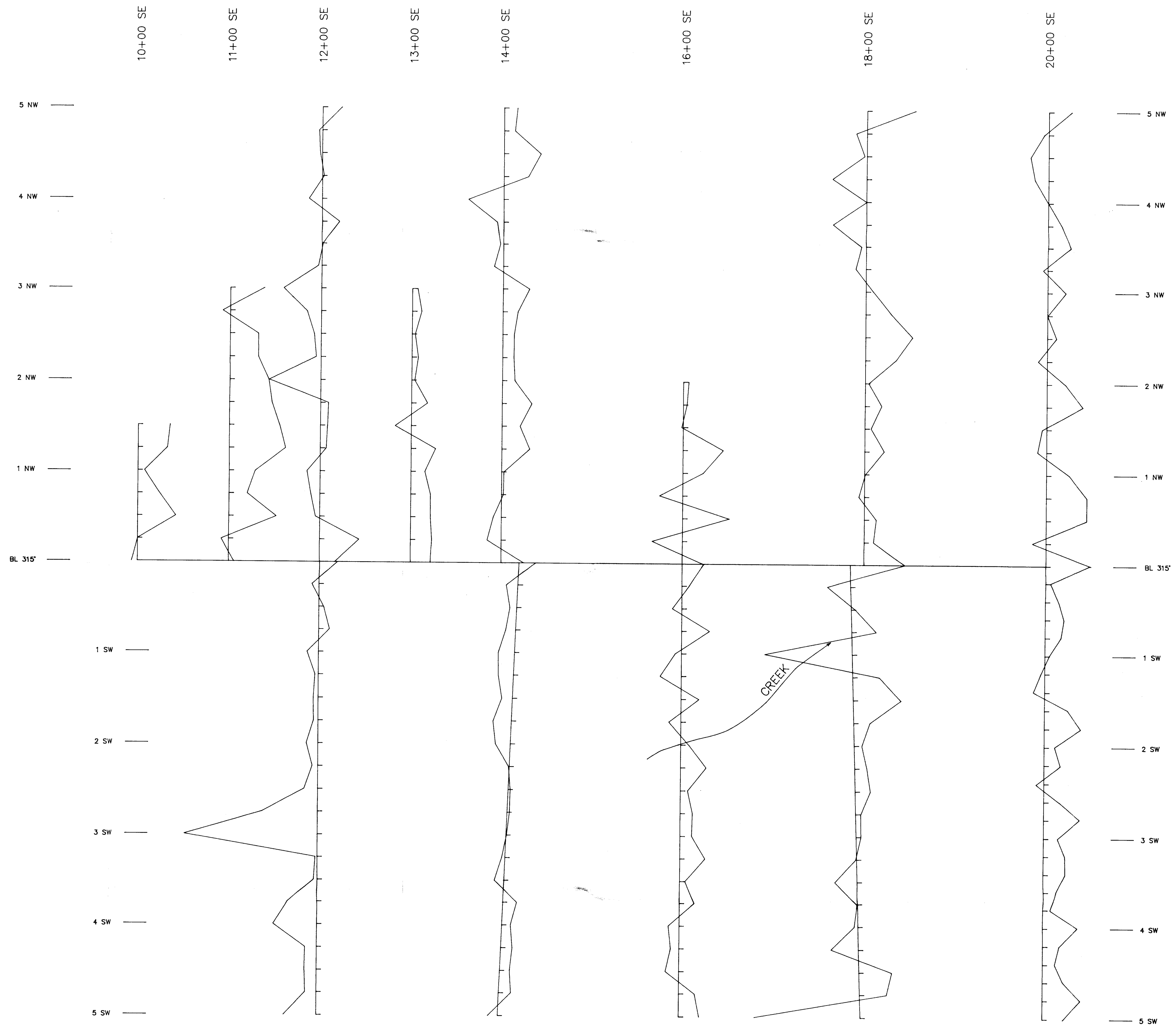
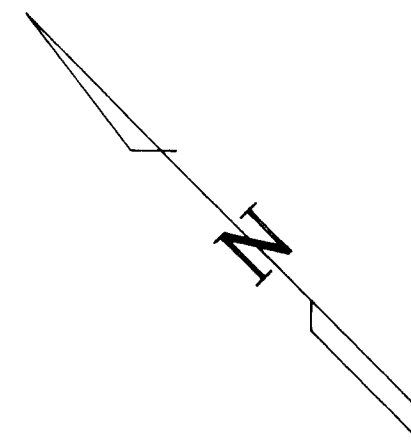
LEGEND:  
 10, 11, 147 As, Cu, Zn RESULTS IN ppm

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

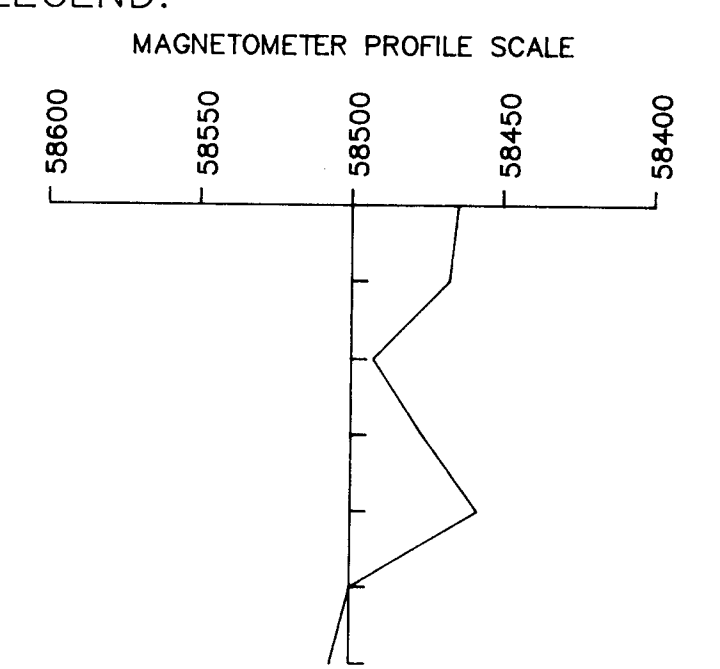
**15,879**

**EZEKIEL EXPLORATIONS LTD.**  
 G-NORTH  
 CARIBOO M.D.-B.C. NTS: 93 J/14  
 GN7-GARNET GRID EXTENSION  
**GEOCHEMISTRY SURVEY**  
 As, Cu, Zn RESULTS  
 SCALE IN METRES  
 0 50 100 200  
 DATE: DEC., 1986  
 BY: JK/rwr FIGURE: 6





LEGEND:



NOTE:  
INSTRUMENT: GEM SYSTEMS GSH-8 PROTON PRECESSION MAGNETOMETER.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,879**

**EZEKIEL EXPLORATIONS LTD.**

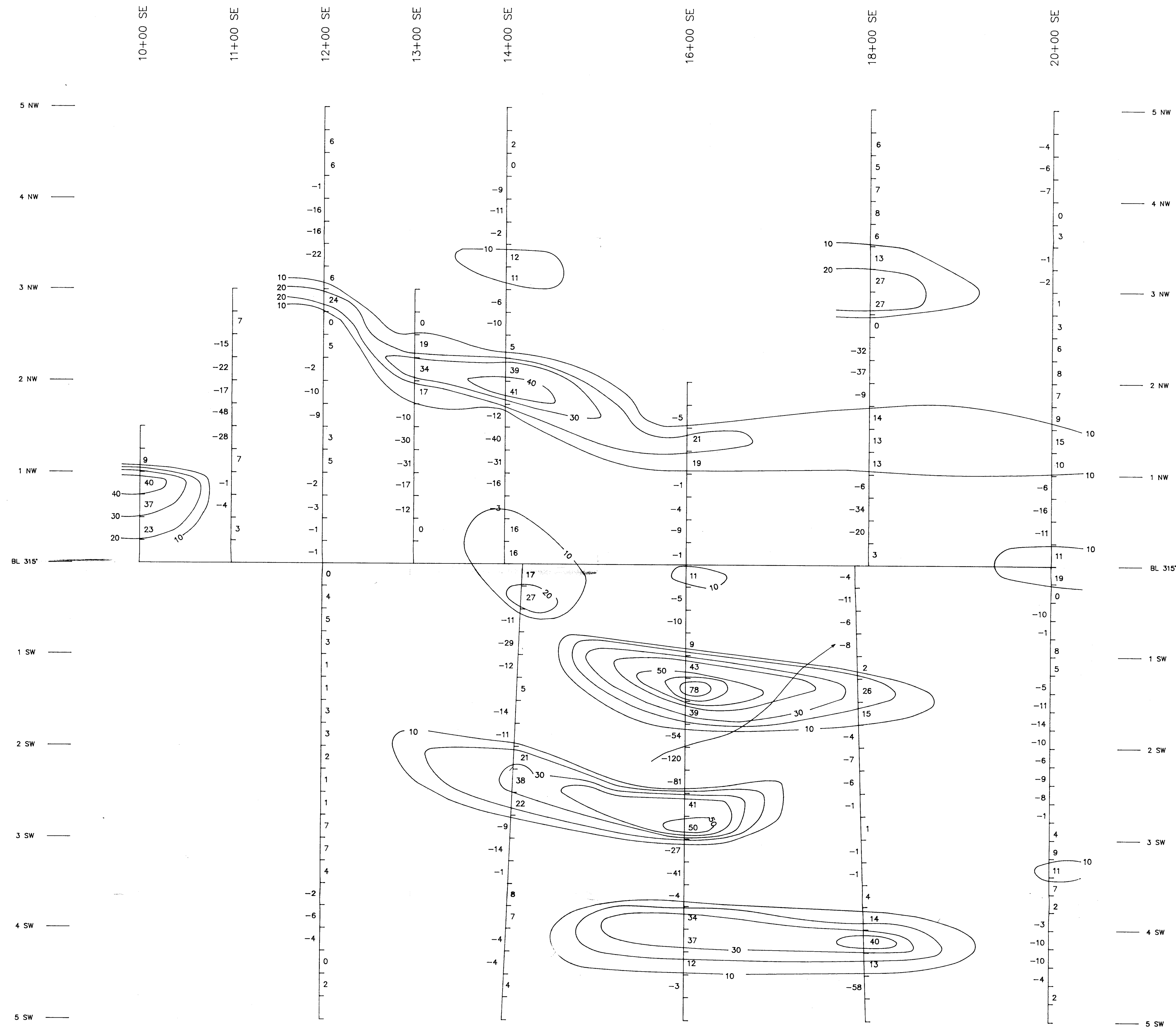
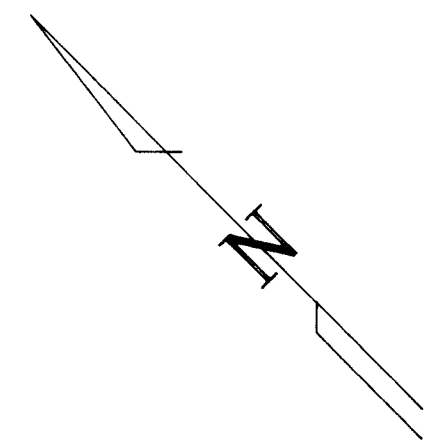
G-NORTH  
CARIBOO M.D.-B.C. NTS: 93 J/14

GN7-GARNET GRID EXTENSION  
PROTON PRECESSION  
MAGNETOMETER SURVEY  
(PROFILES)

SCALE IN METRES  
0 50 100 200

DATE: DEC., 1986  
BY: JK/rwr

FIGURE: 8

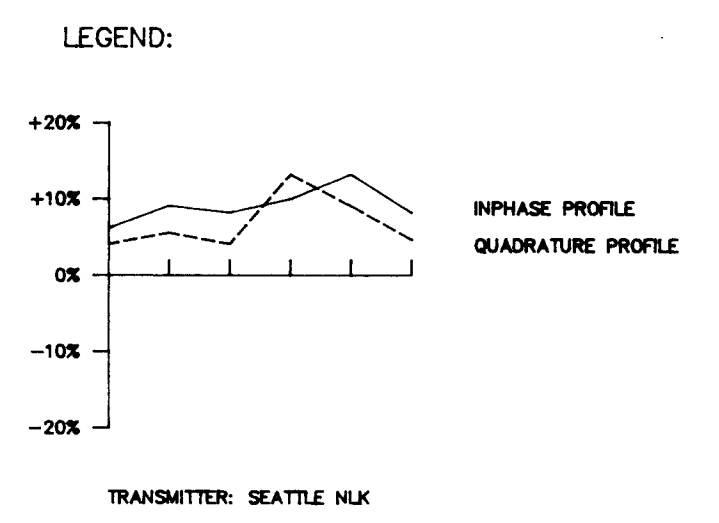
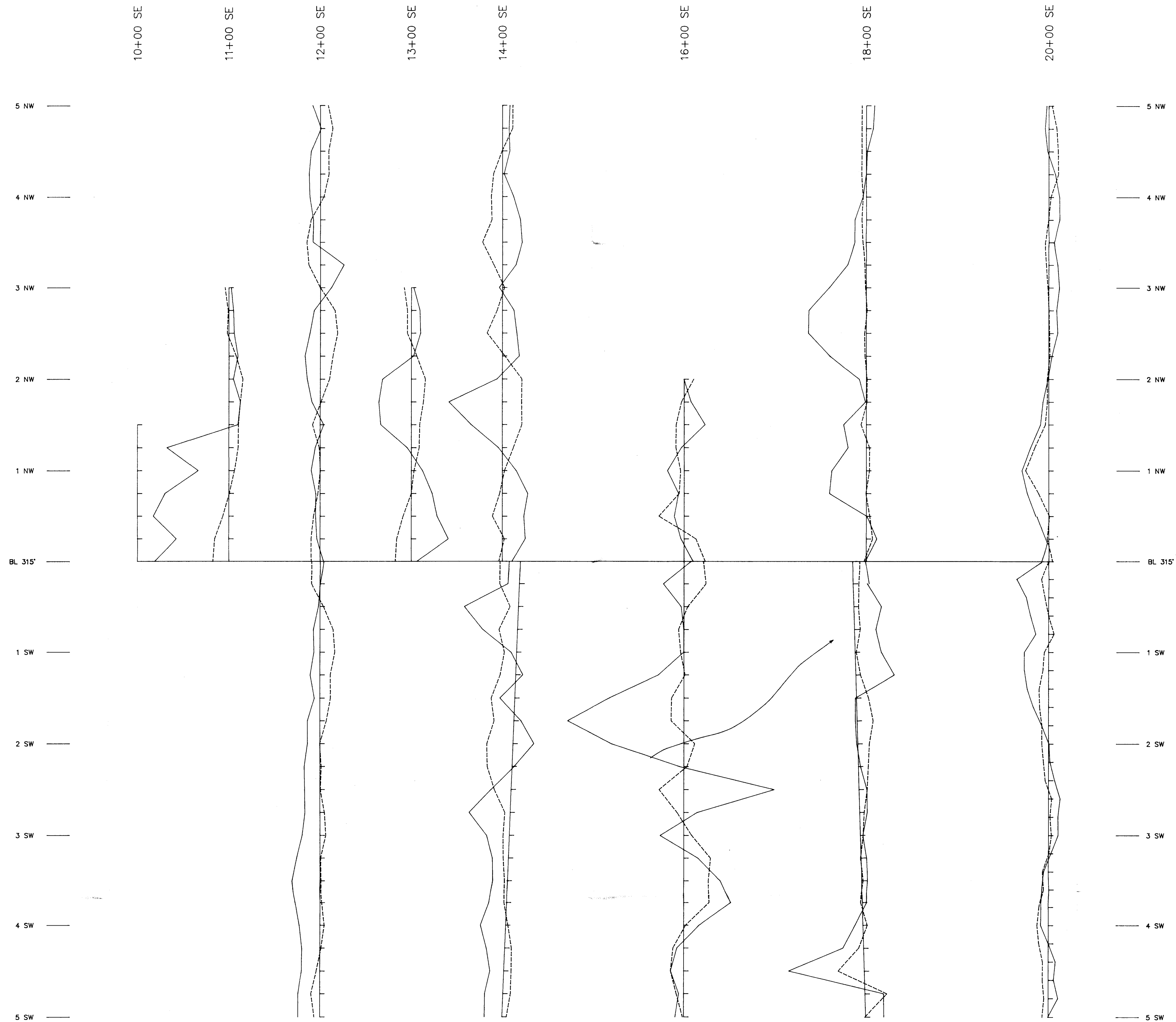
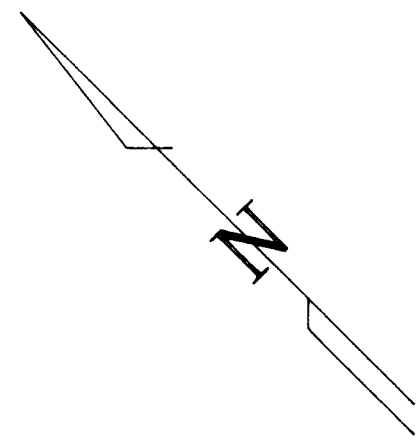


LEGEND:  
 [ 25 ] FRASER FILTERED DATA (%)  
 [ 10 ]  
 ——— CONTOUR  
 CONTOUR INTERVAL = 10%  
 TRANSMITTER: SEATTLE NLK

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

**15,879**

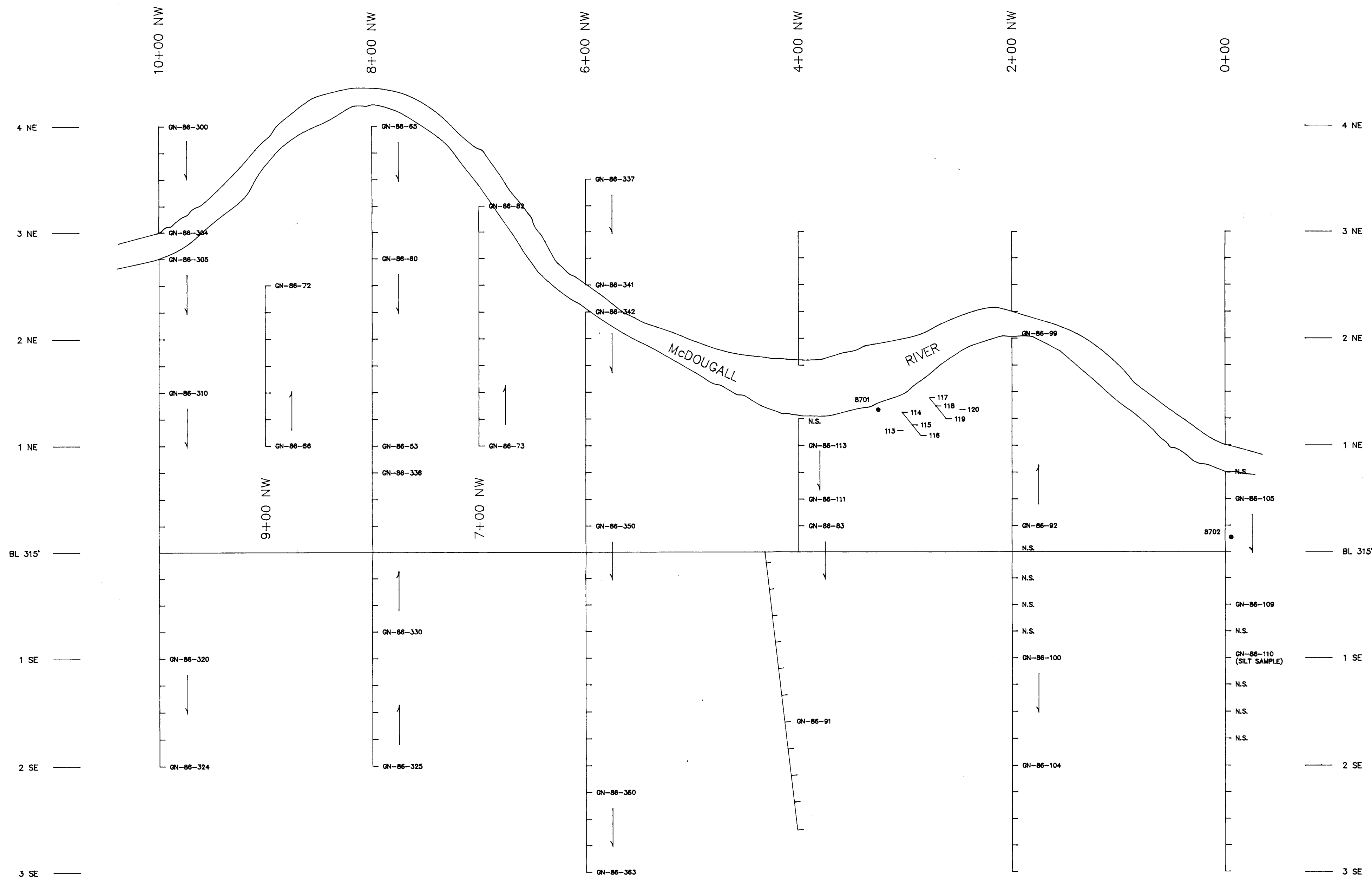
<b>EZEKIEL EXPLORATIONS LTD.</b>	
G-NORTH	
CARIBOO M.D.-B.C.	NTS: 93 J/14
GN7-GARNET GRID EXTENSION	
VLF-EM-16 SURVEY	
FRASER FILTERED CONTOURS	
SCALE IN METRES	
0 50 100 200	
DATE: DEC., 1988	FIGURE: 9
BY: JK/rwr	



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

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<b>EZEKIEL EXPLORATIONS LTD.</b>	
G-NORTH CARIBOO M.D.-B.C. NTS: 93 J/14	
GN7-GARNET GRID EXTENSION	
<b>VLF-EM-16 SURVEY PROFILES</b>	
SCALE IN METRES 0 50 100 200	
DATE: DEC., 1986	FIGURE: 10
BY: JK/rwr	



LEGEND:

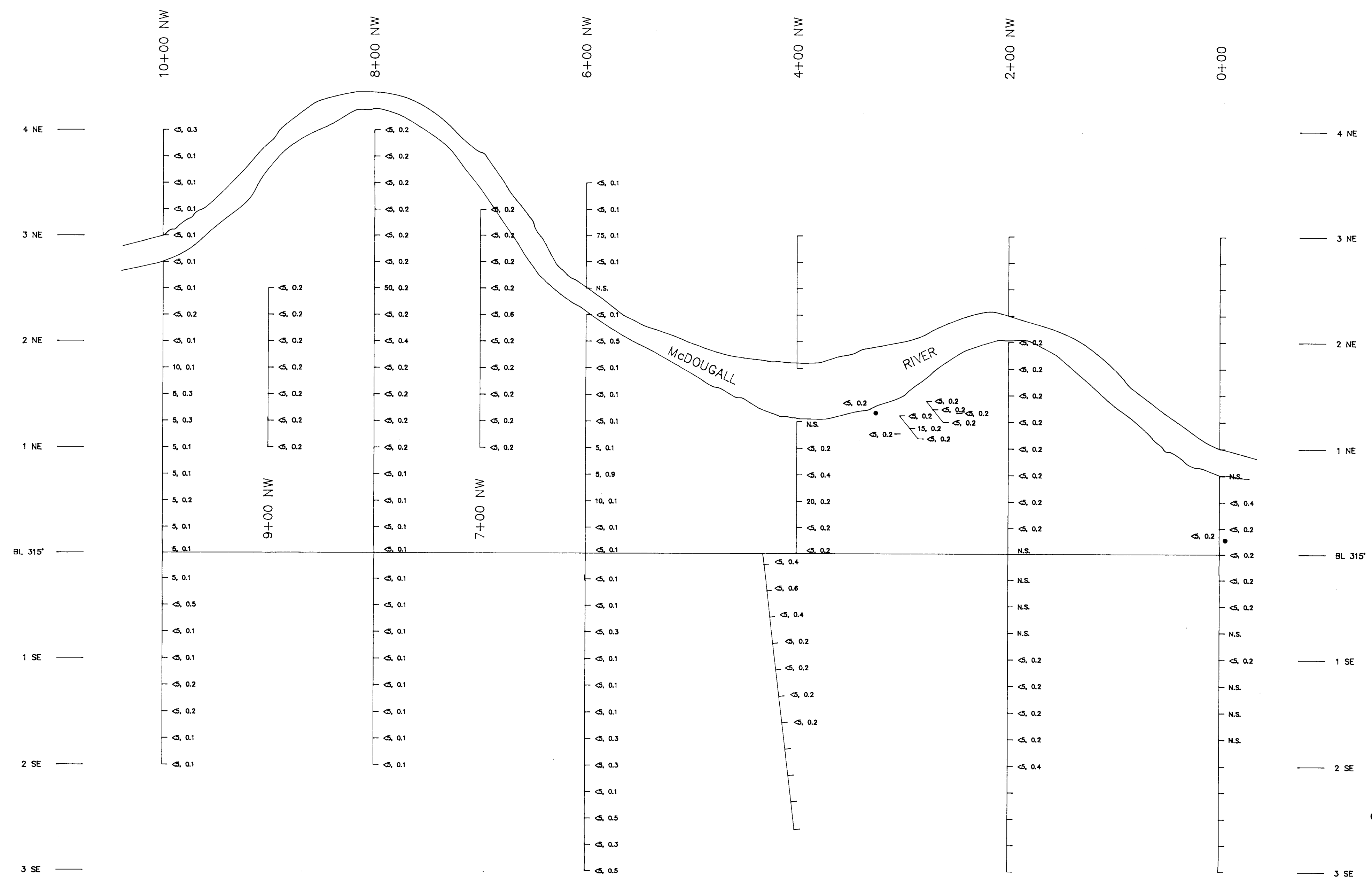
GN-86-350 SOIL/SILT SAMPLE NUMBER

● 8701 ROCK SAMPLE NUMBER AND LOCATION

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,879**

EZEKIEL RESOURCES LTD.	
G-NORTH	
CARBIDO M.D.-B.C.	NTS: 95 J/14
RIVER GRID	
SOIL AND SILT SAMPLE LOCATIONS	
SCALE IN METRES 0 50 100 200	
DATE: DEC., 1986	FIGURE 11
BY: JL/rwt	

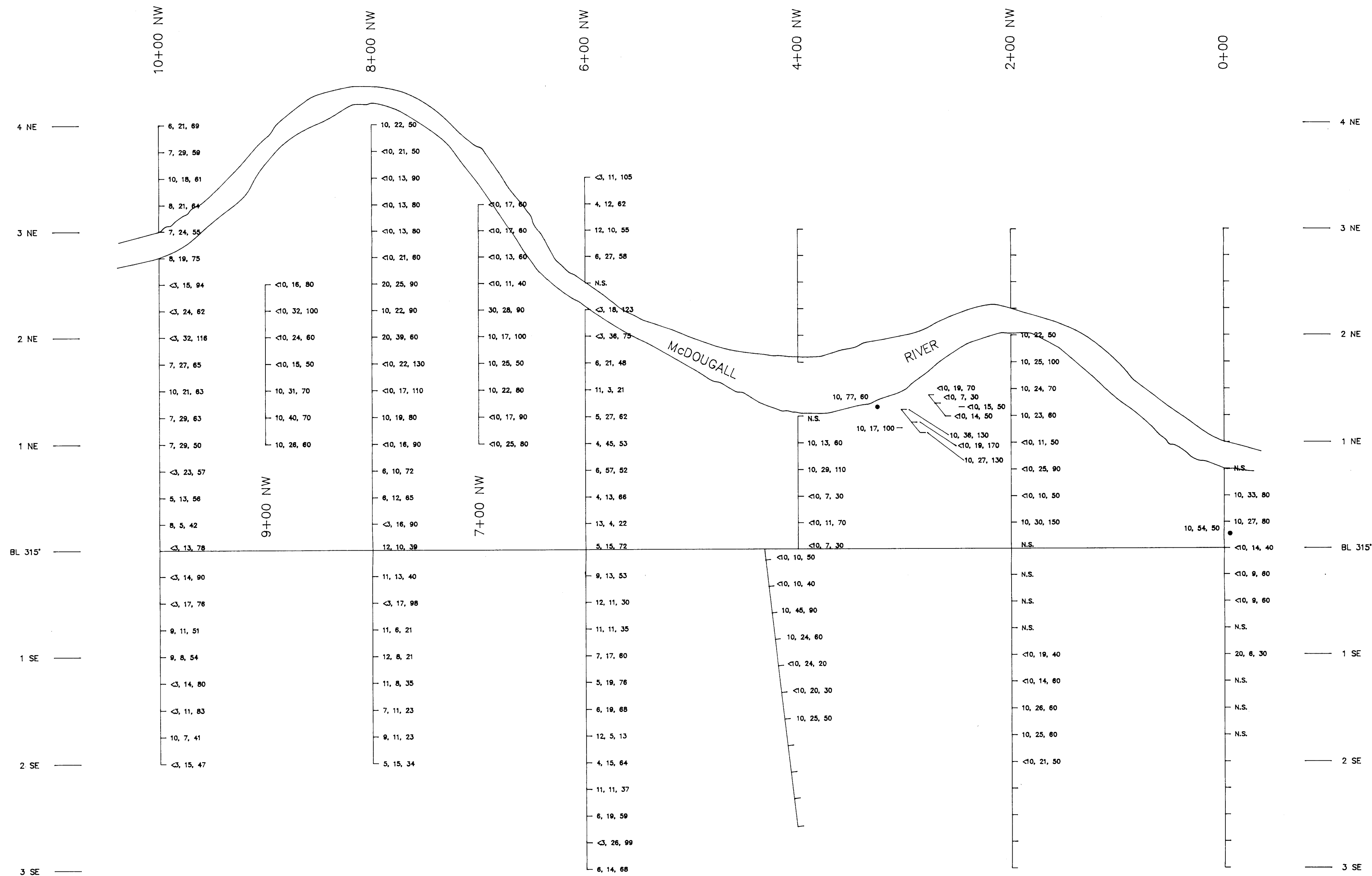


**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,879**

LEGEND:  
20, 0.4 Au RESULT IN ppb; Ag RESULT IN ppm

EZEKIEL RESOURCES LTD.	
G-NORTH	
CARIBOO M.D.-B.C. NTS: 95 J/14	
RIVER GRID	
GEOCHEMICAL SURVEY	
Au, Ag RESULTS	
SCALE IN METRES 0 50 100 200	
DATE: DEC., 1986	FIGURE 12
BY: JL/rwt	



LEGEND:

20, 23, 50 As, Cu, Zn RESULTS IN ppm

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,879**

EZEKIEL RESOURCES LTD.

G-NORTH  
CARIBOO M.D.-B.C. NTS: 03 1/14  
RIVER GRID

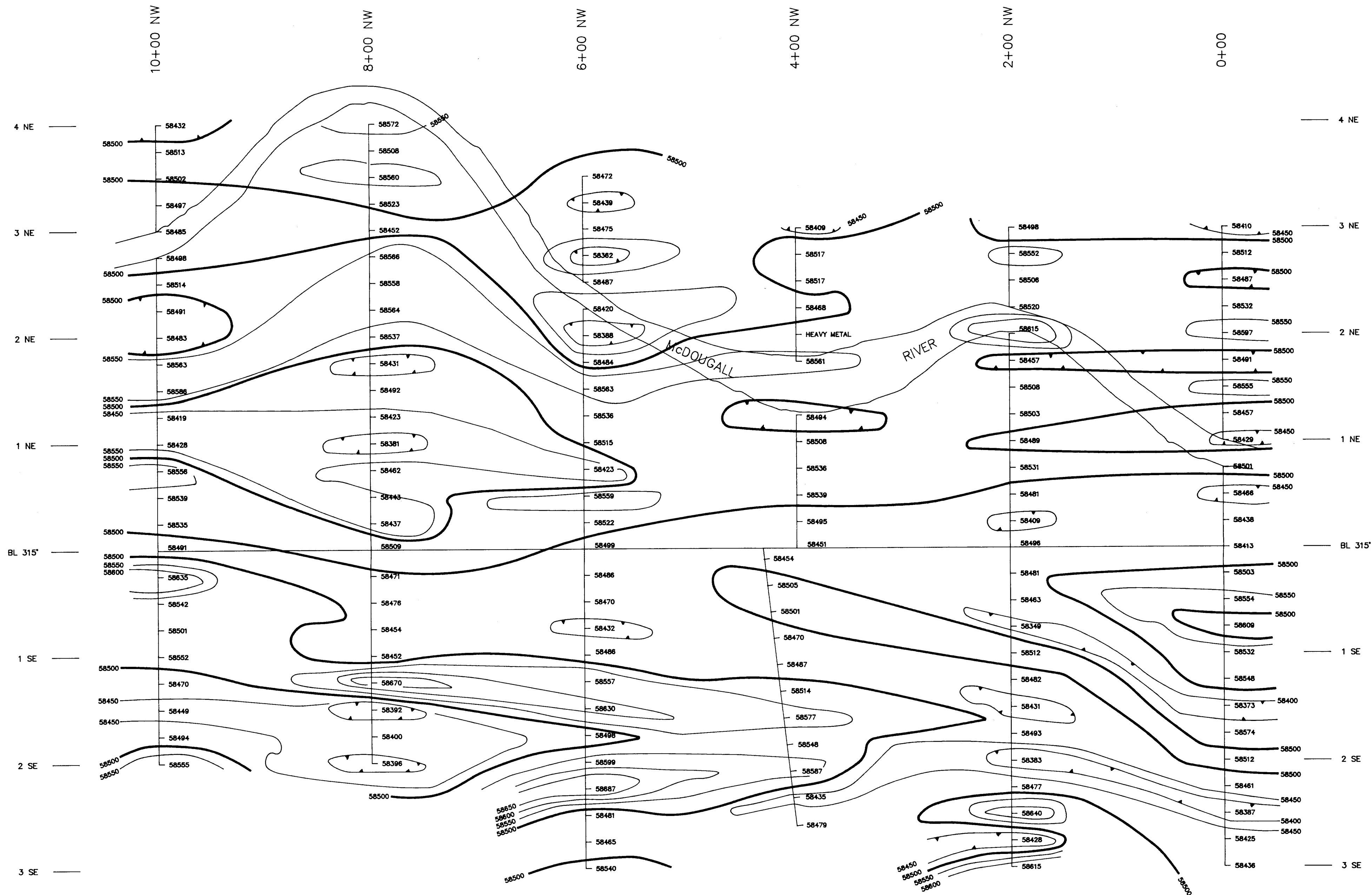
GEOCHEMICAL SURVEY  
As, Cu, Zn RESULTS

SCALE IN METRES  
0 50 100 200

DATE: DEC., 1986  
BY: JL/rvr

FIGURE 13



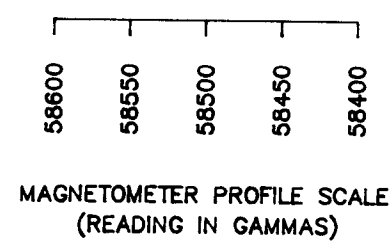
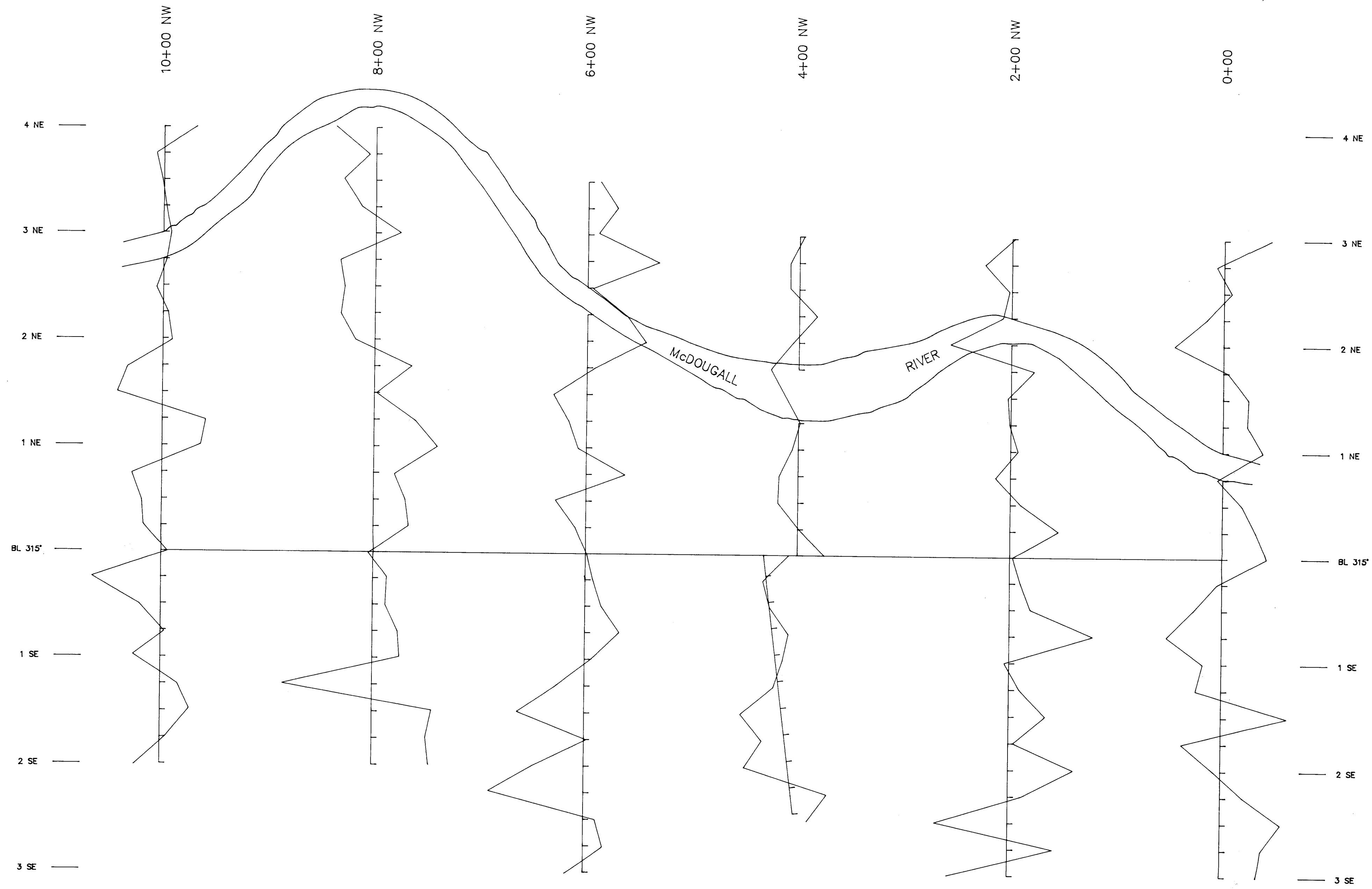


**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,879**

EZEKIEL RESOURCES LTD.	
G-NORTH	
CARIBOO M.D.-B.C. NTS: 93 J/14	
RIVER GRID	
MAGNETOMETER SURVEY CONTOURS	
SCALE IN METRES 0 50 100 200	
DATE: DEC., 1986	FIGURE 14
BY: JL/rvr	

LEGEND:  
 58436 MAGNETOMETER READING IN GAMMAS  
 CONTOUR INTERVAL = 50 GAMMAS  
 INSTRUMENT: GEM SYSTEMS GSM-8 PROTON PRECESSION MAGNETOMETER

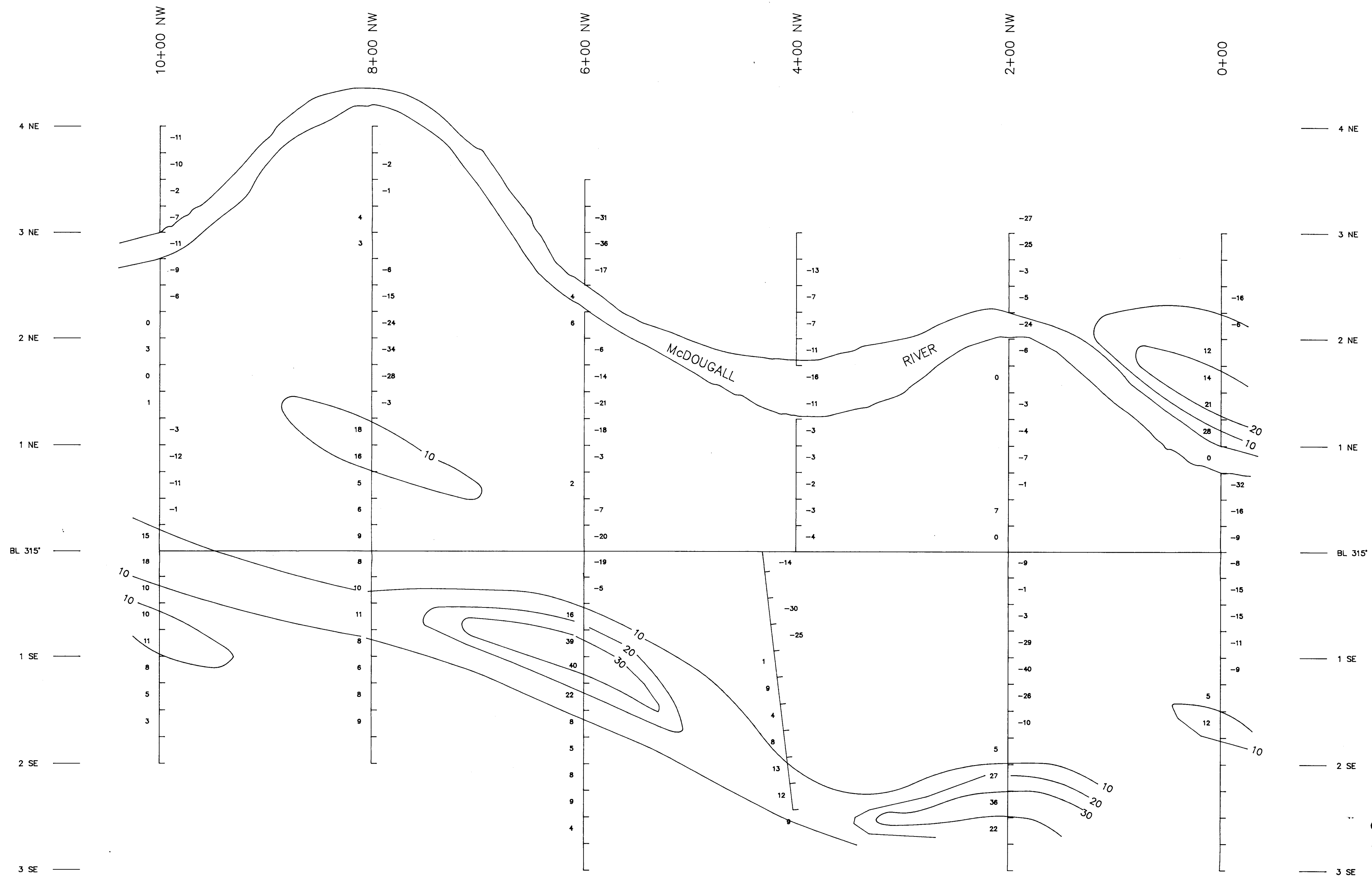


LEGEND:  
INSTRUMENT: GEM SYSTEMS GSM-B PROTON PRECESSION MAGNETOMETER

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,879**

EZEKIEL RESOURCES LTD.	
G-NORTH	
CARIBOO M.D.-B.C.	NTS: 99 J/14
RIVER GRID MAGNETOMETER SURVEY PROFILES	
SCALE IN METRES 0 50 100 200	
DATE: DEC., 1966	BY: JL/rwt
	FIGURE 15

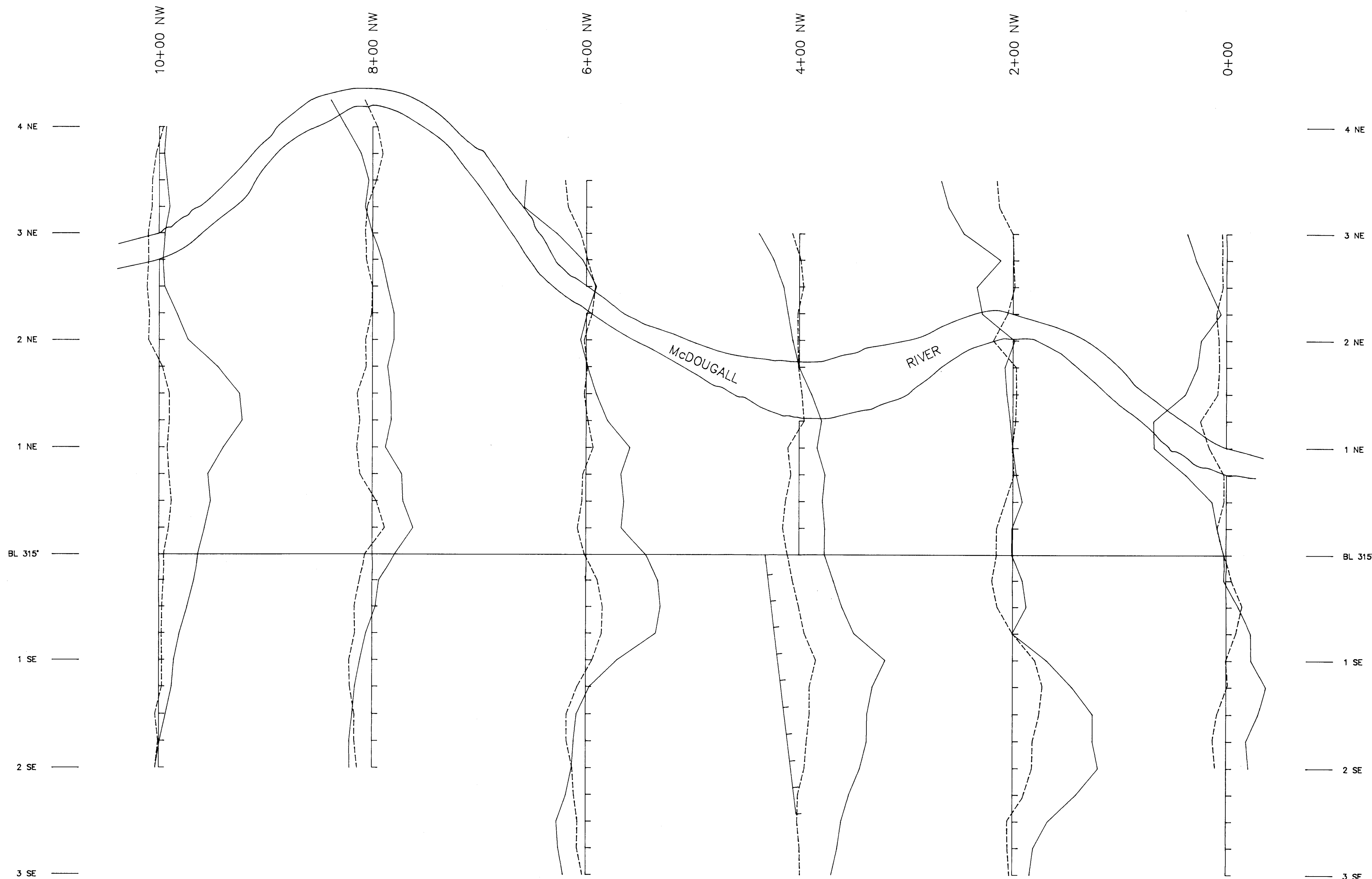


LEGEND:  
 -25 FRASER FILTERED RESULT  
 CONTOUR INTERVAL 10%

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**15,879**

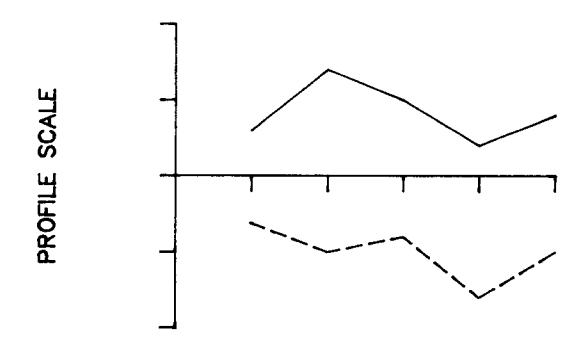
EZEKIEL RESOURCES LTD.	
G-NORTH	
CARIBOO M.D.-B.C.	NTR: 03 1/14
RIVER GRID	
VLF-EM SURVEY	
FRASER FILTERED CONTOURS	
SCALE IN METRES 	
DATE DEC. 1988	FIGURE 16
BY: JL/rwr	



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,879**

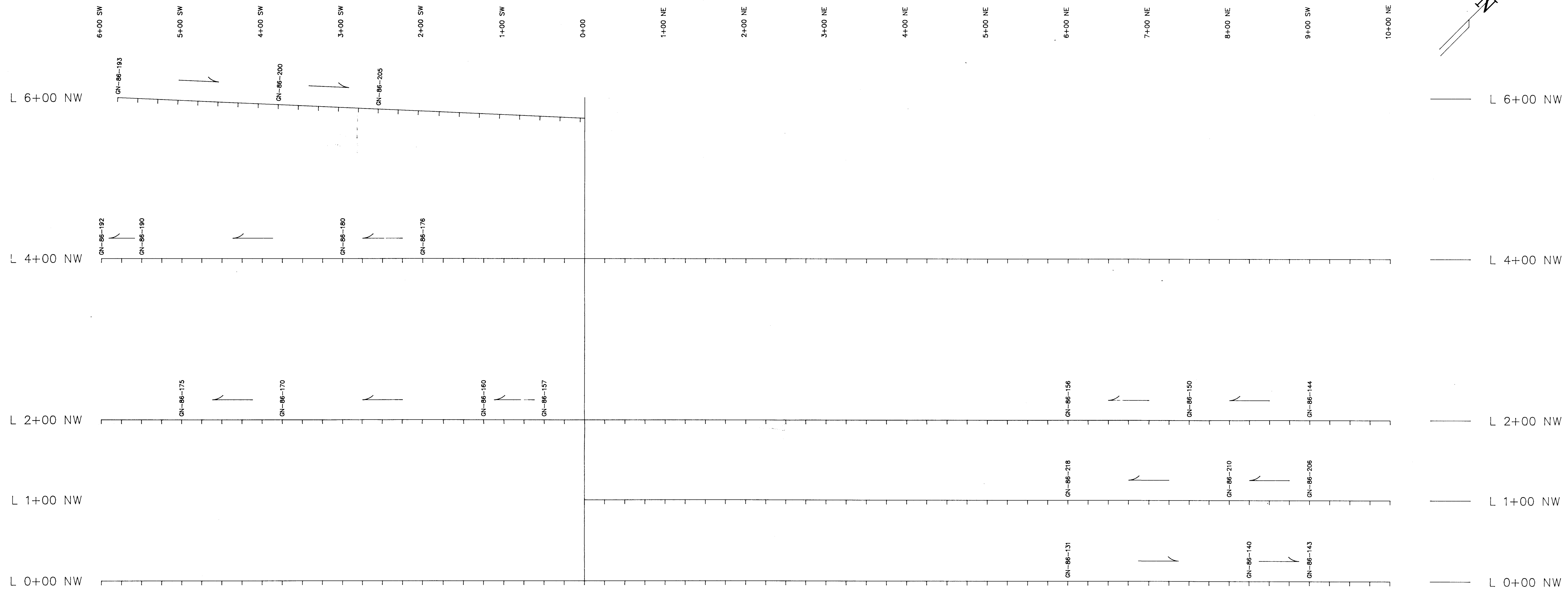
LEGEND:



INPHASE PROFILE  
QUADRATURE PROFILE

INSTRUMENT: GEONICS EM-16  
STATION: SEATTLE  
ALL READINGS TAKEN FACING AZIMUTH 82° E

EZEKIEL RESOURCES LTD.	
G-NORTH	
CARIBOO M.D.-B.C.	NTS: 95 J/14
VLF-EM 16 SURVEY	
INPHASE & QUADRATURE PROFILES	
RIVER GRID	
SCALE IN METRES	
0 50 100 200	
DATE: DEC., 1986	FIGURE 17
BY: JL/rwt	

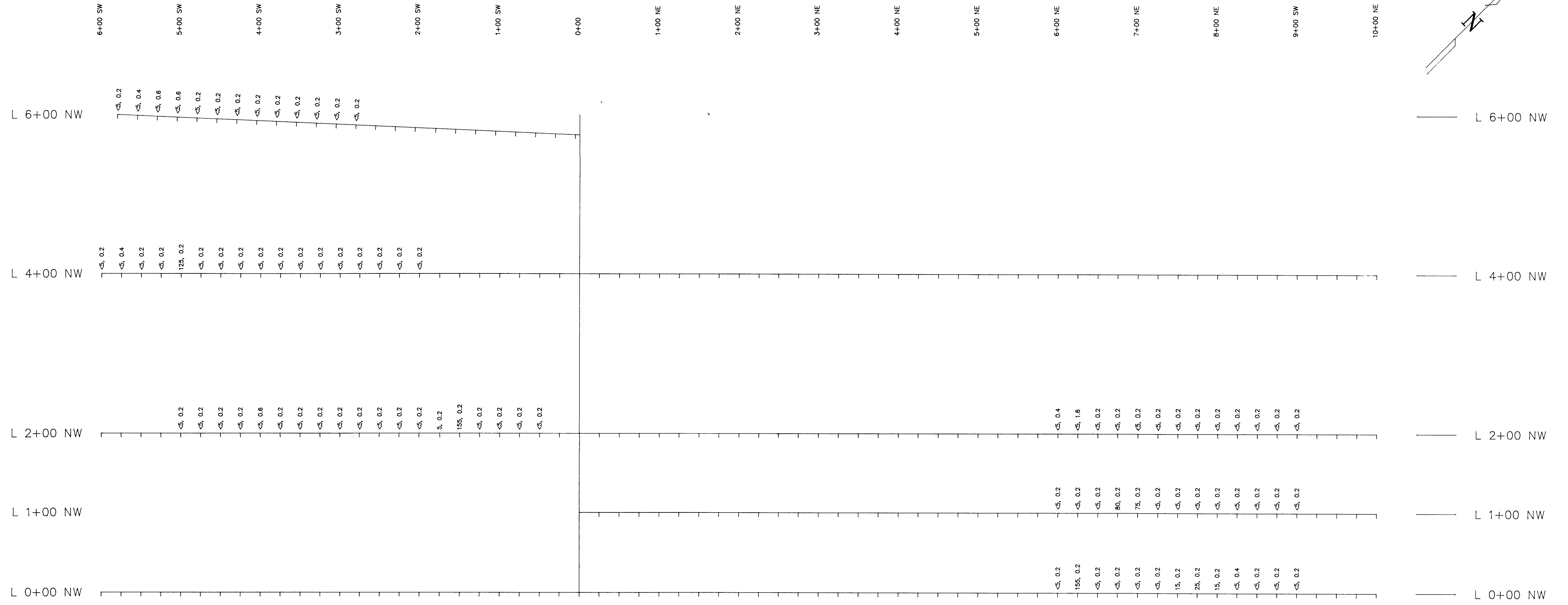
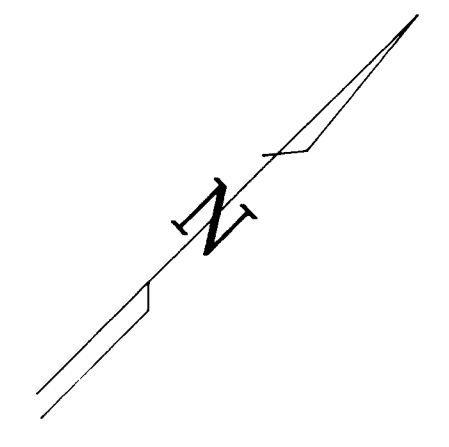


LEGEND:  
 GN-86-123 SOIL SAMPLE LOCATION AND NUMBER

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**15,879**

EZEKIEL EXPLORATIONS LTD.	
G-NORTH CARIBOO M.D.-B.C. NTS: 93 J/14	
GN II REED GRID EXTENSION	
GEOCHEMICAL SURVEY SAMPLE LOCATION MAP	
SCALE IN METRES 0 50 100 200	
DATE: DEC., 1986	FIGURE: 1B
BY: JK/rwr	

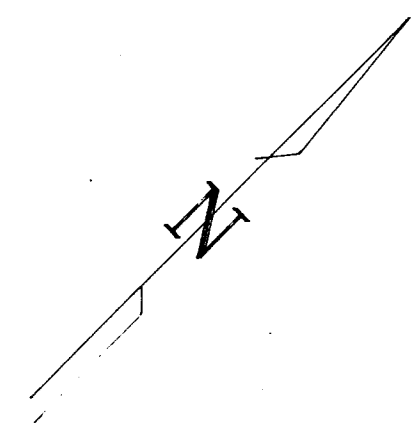
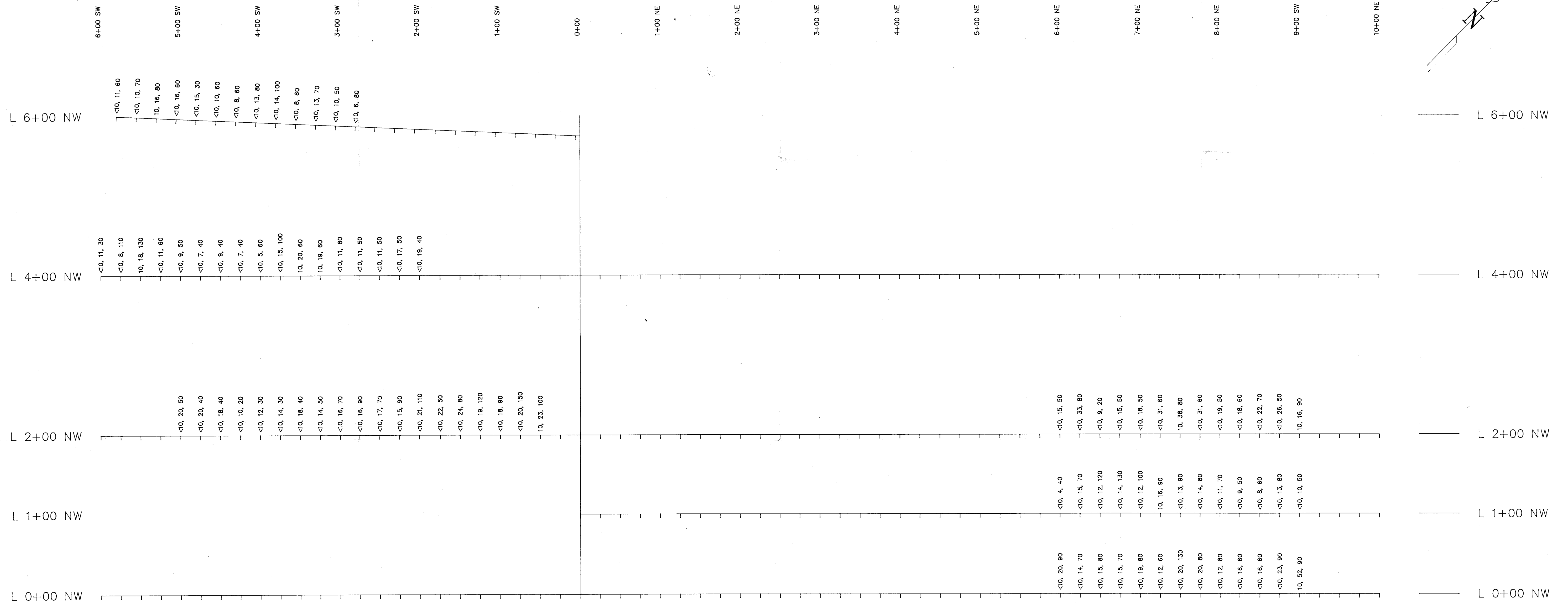


LEGEND:  
 } 10, 1.0 Au RESULT IN ppb, Ag RESULT IN ppm

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**15,879**

EZEKIEL EXPLORATIONS LTD.	
G-NORTH CARIBOO M.D.-B.C. NTS: 93 J/14	
GN II REED GRID EXTENSION	
GEOCHEMICAL SURVEY Au, Ag RESULTS	
SCALE IN METRES 0 50 100 200	
DATE: DEC., 1986	FIGURE: 19
BY: JK/rwr	



LEGEND:  
 10, 20, 30 As, Cu, Zn RESULTS IN ppm

**GEOLOGICAL BRANCH  
 ASSESSMENT REPORT**

**15,879**

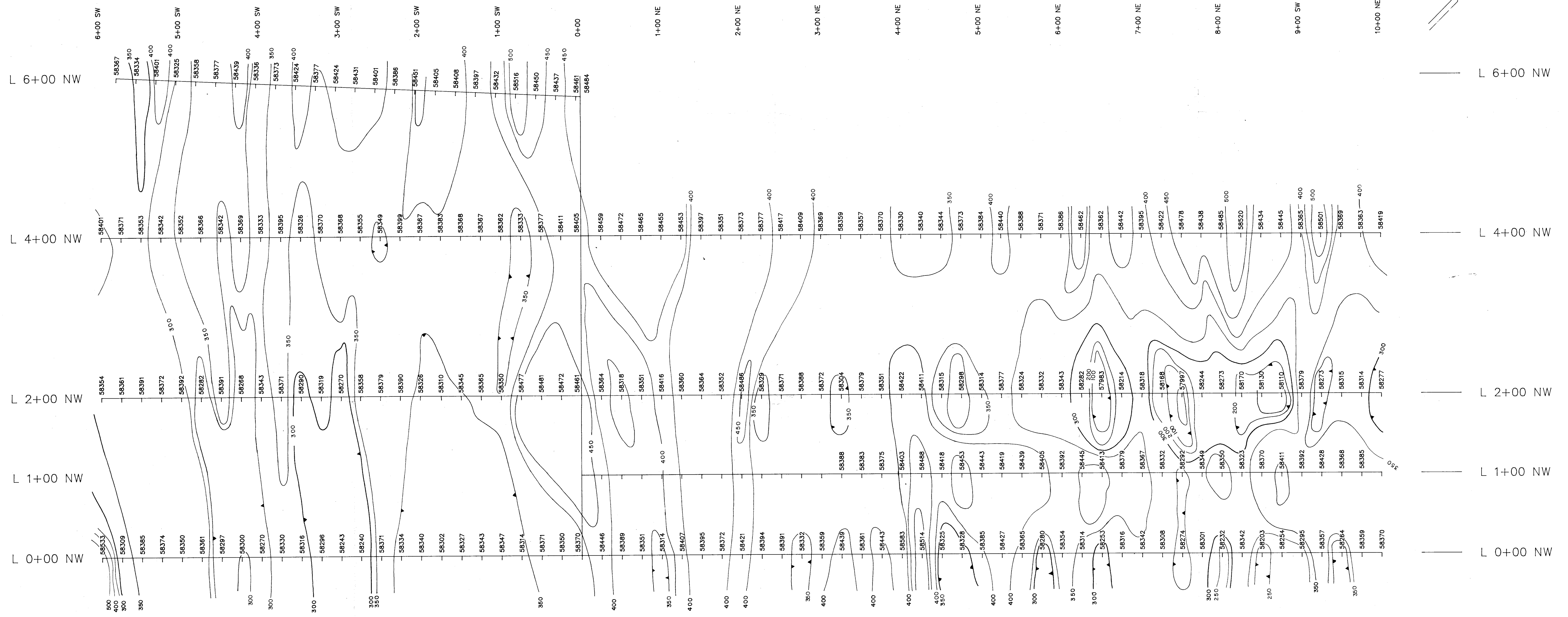
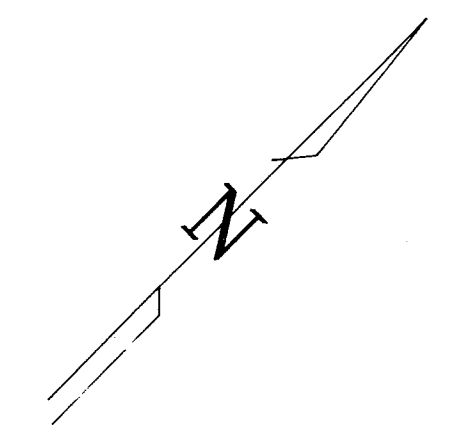
EZEKIEL EXPLORATIONS LTD.

G-NORTH  
 CARIBOO M.D.-B.C. NTS: 93 J/14  
 GN II REED GRID EXTENSION

**GEOCHEMICAL SURVEY  
 As, Cu, Zn RESULTS**

SCALE IN METRES  
 0 50 100 200

DATE: DEC., 1986  
 BY: JK/rwr  
 FIGURE: 20



LEGEND:

58123 MAGNETOMETER READING IN GAMMAS

— CONTOUR

CONTOUR INTERVAL = 100 GAMMAS

INSTRUMENT: GEM SYSTEMS CSM-8  
PROTON PRESSION MAGNETOMETER

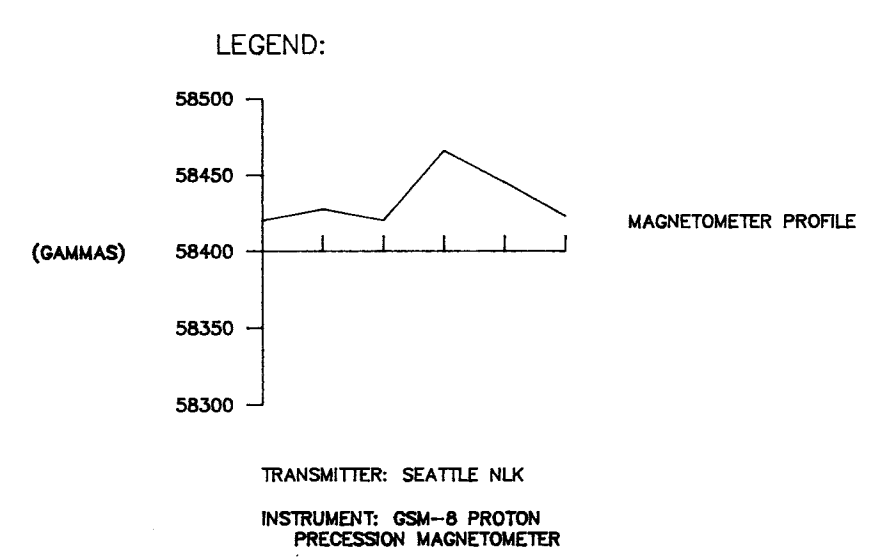
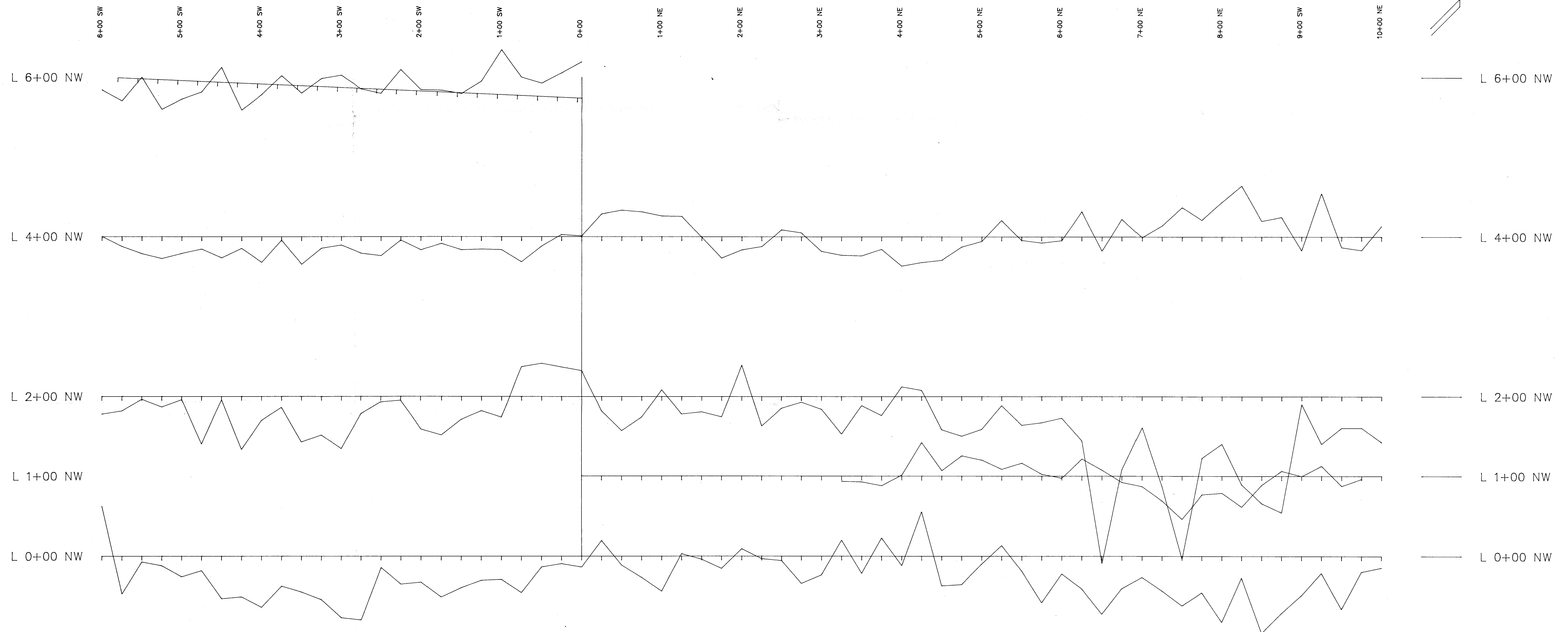
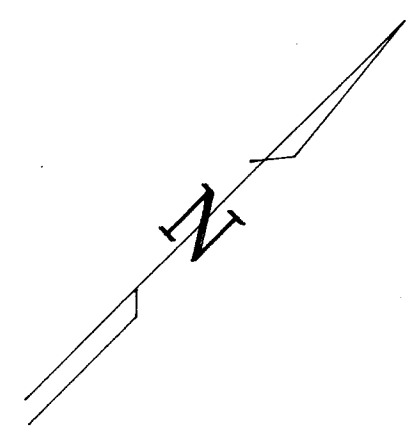
TRANSMITTER: SEATTLE NLK

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,879**

EZEKIEL EXPLORATIONS LTD.	
G-NORTH	
CARIBOO M.D.-B.C.	NTS: 93 J/14
GN II REED GRID EXTENSION	
MAGNETOMETER SURVEY CONTOURS	
SCALE IN METRES 0 50 100 200	
DATE: DEC., 1986	FIGURE: 21
BY: JK/rwr	

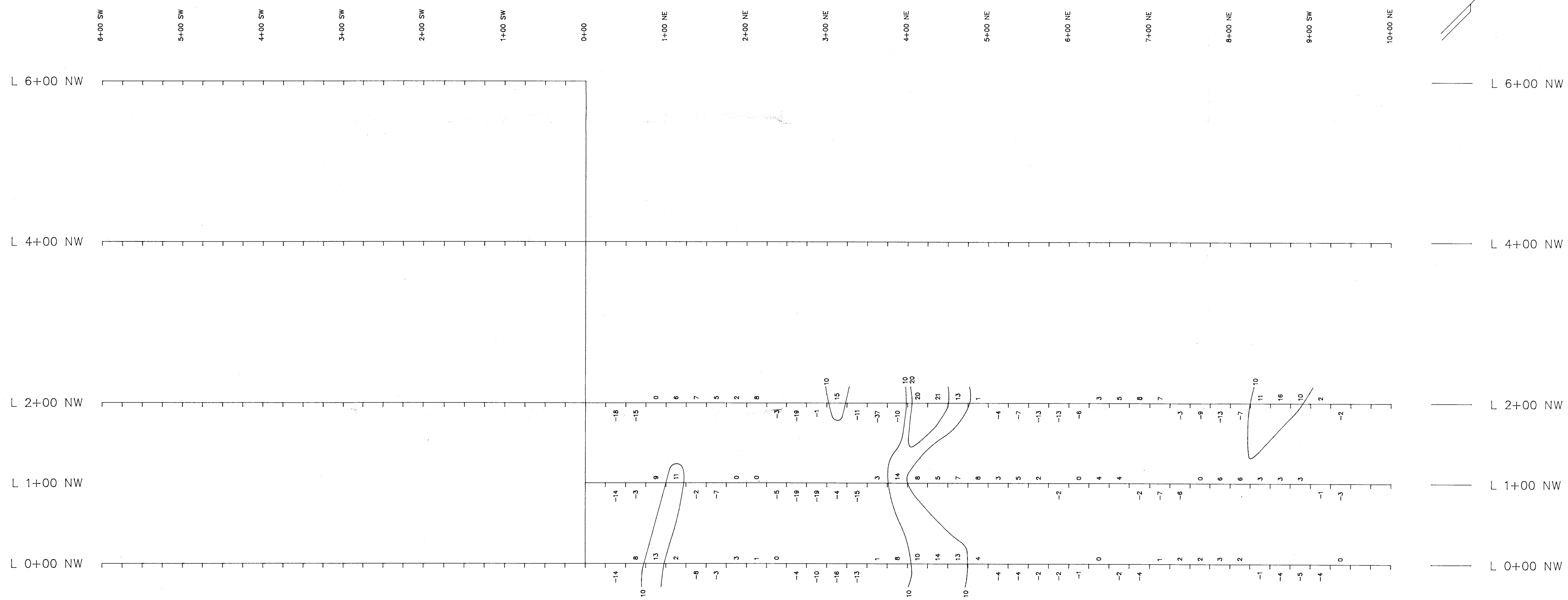
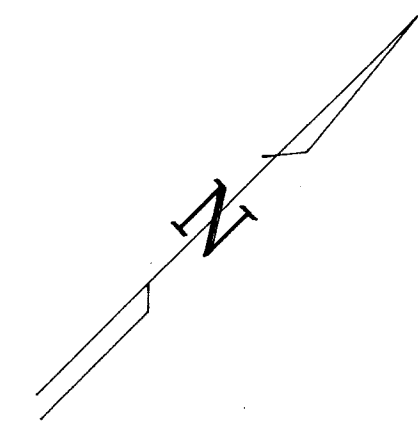




**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,879**

<b>EZEKIEL EXPLORATIONS LTD.</b>	
G-NORTH CARIBOO M.D.-B.C. NTS: 93 J/14	
GN 11 REED GRID EXTENSION	
<b>MAGNETOMETER SURVEY PROFILES</b>	
SCALE IN METRES 0 50 100 200	
DATE: DEC., 1986	FIGURE: 22
BY: JK/rwr	



LEGEND:

10 — FRASER FILTERED VLF-EM READING (%)

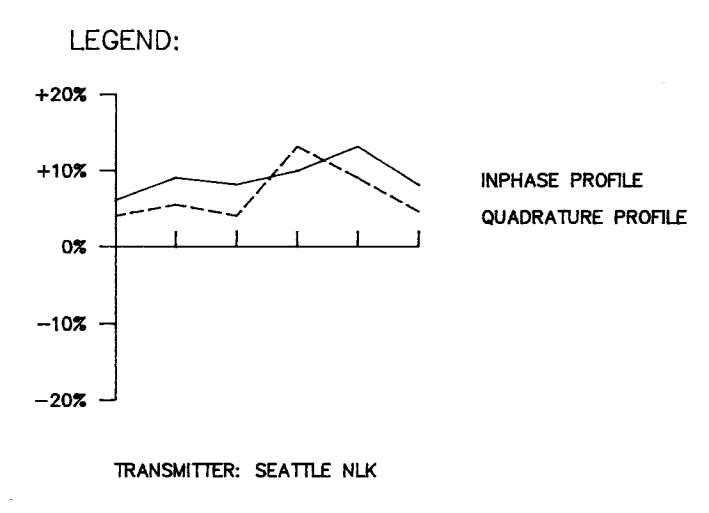
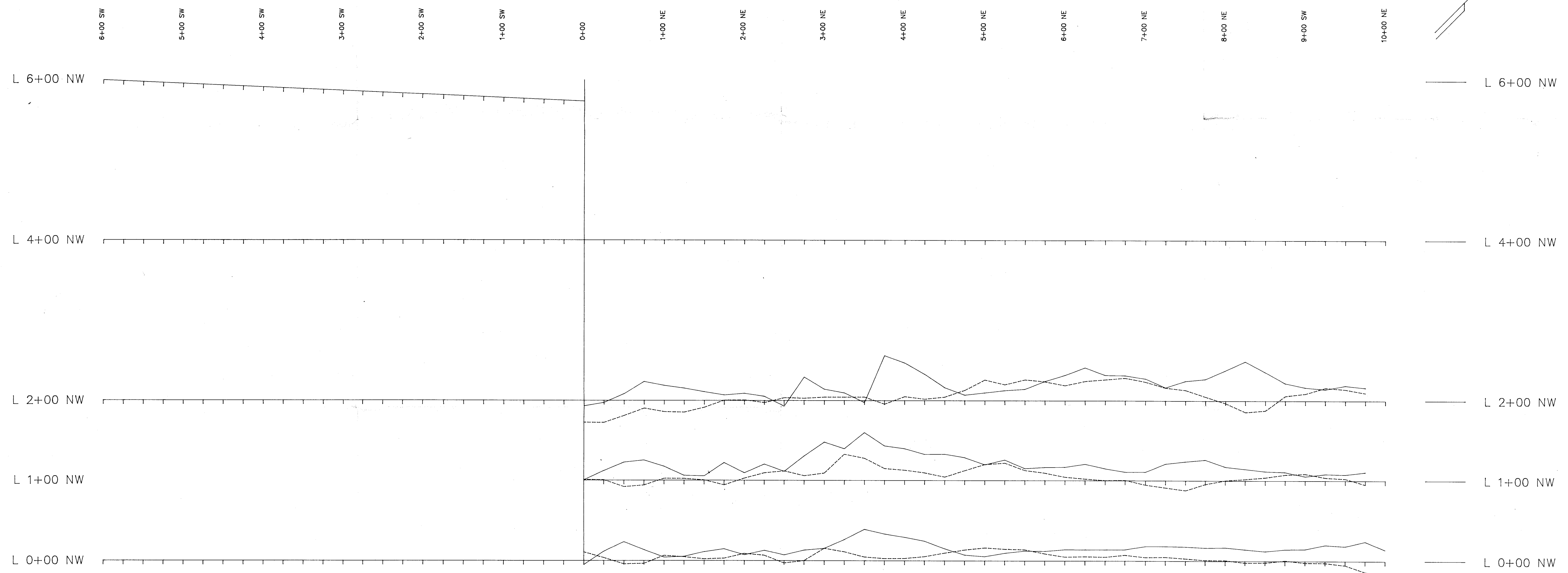
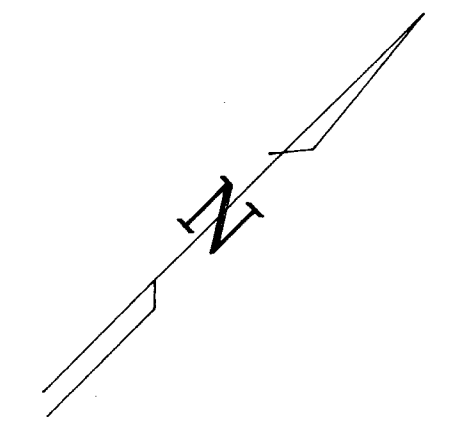
— CONTOUR

CONTOUR INTERVAL = 10%

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ASSESSMENT REPORT**

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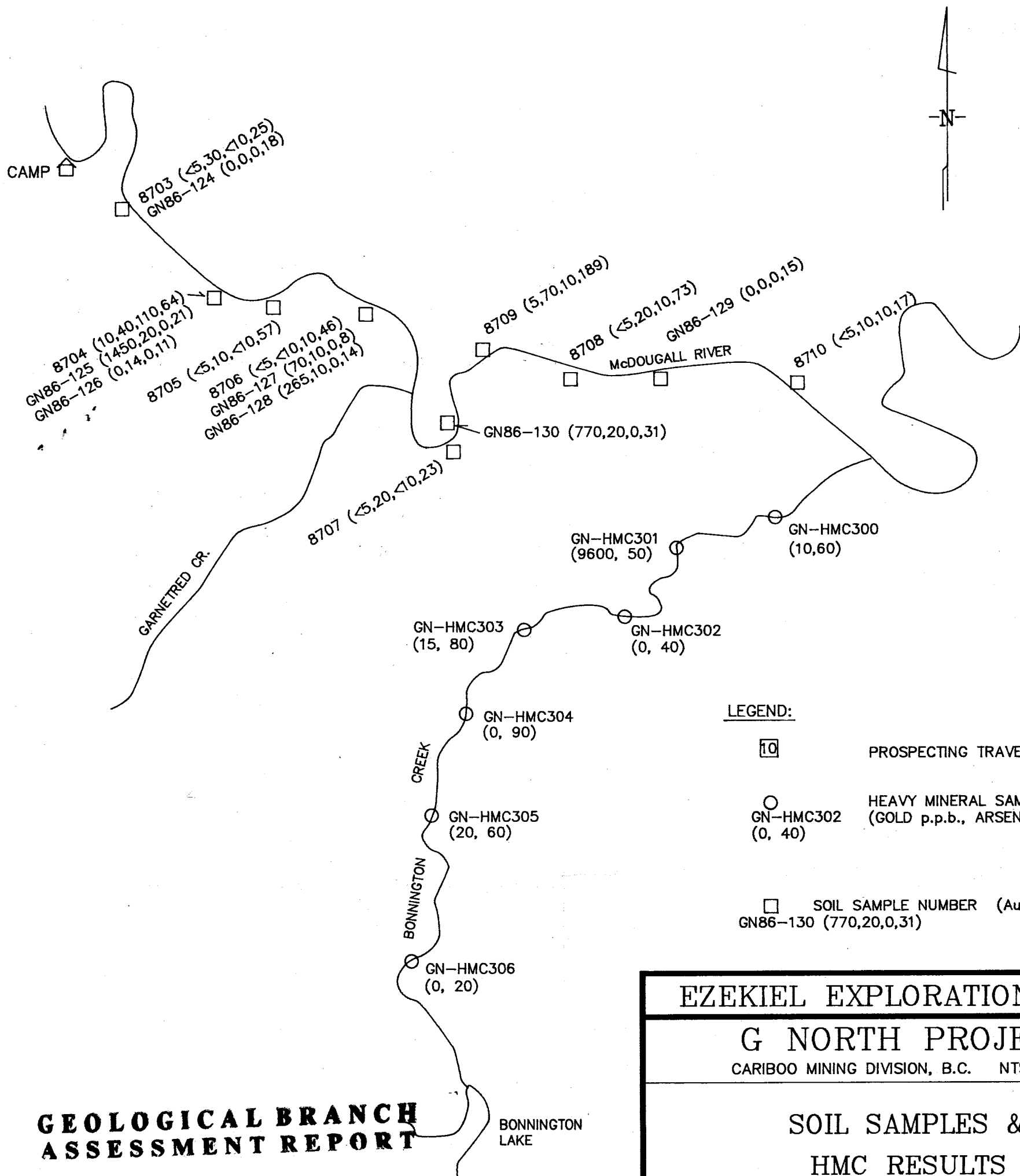
EZEKIEL EXPLORATIONS LTD.	
G-NORTH CARIBOO M.D.-B.C. NTS: 93 J/14	
GN II REED GRID EXTENSION	
VLF-EM-16 SURVEY FRASER FILTERED CONTOURS	
SCALE IN METRES 0 50 100 200	
DATE: DEC., 1986	FIGURE: 23
BY: JK/rwr	



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<b>EZEKIEL EXPLORATIONS LTD.</b>	
G-NORTH CARIBOO M.D.-B.C. NTS: 93 J/14	
GN11-REED GRID EXTENSION	
<b>VLF-EM-16 SURVEY PROFILES</b>	
SCALE IN METRES 0 50 100 200	
DATE: DEC., 1986	BY: JK/rwr
	FIGURE: 24



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<b>EZEKIEL EXPLORATIONS LTD.</b>		
<b>G NORTH PROJECT</b>		
CARIBOO MINING DIVISION, B.C. NTS:93J/14		
<b>SOIL SAMPLES &amp; HMC RESULTS</b>		
DATE: JUNE 1986 BY: LDH./rwr	SCALE 1:10000	FIGURE: 25