# GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT ON THE JOY 1 AND 2 CLAIMS, ISKUT RIVER AREA, LIARD MINING DIVISION, B.C.

**NTS 104-B/10W, 11/E**
**Latitude** 56°45'N
**Longitude** 130°59'W



**FOR**

**Brenwest Mining Ltd.**
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**BY**

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**December, 1987**



HI-TEC RESOURCE MANAGEMENT LIMITED

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## 1.0 SUMMARY

Pursuant to a request by the directors of Brenwest Mining Ltd., an exploration program involving prospecting, geological mapping, geophysics, and soil and stream sediment geochemistry was carried out on the Joy 1 and 2 claims in 1987. The author was active in this program in the capacity of project geologist.

The property is located in the western Iskut River area of northwestern British Columbia, roughly 110 kilometers northwest of Stewart and 80 kilometers east of Wrangell, Alaska. This area has been the focus of intense mining exploration activity in recent years which has resulted in several discoveries.

The property lies within the westernmost part of the Intermontane Tectonic Belt, close to its boundary with the Coast Crystalline Tectonic Belt. The Joy claims are underlain by a sequence of volcanic and sedimentary rocks which have been intruded by several small igneous bodies of felsic to intermediate composition.

Anomalous gold values were obtained from samples of sulphide-bearing quartz veins and shear zones in andesitic volcanics in several locations on the Joy 2 claim. A grab sample from one pyrite and chalcopyrite bearing shear zone yielded an assay value of 190.0 g/tonne gold (5.542 oz gold/ton), and geochem values of 226.3 ppm silver (6.6 oz silver/ton), and over 0.5% copper. This area of the Joy 2 claim appears to have excellent potential for hosting significant precious metal mineralization.

In order to fully evaluate the mineralization potential of the Joy property, further exploration work is recom-

mended. An appropriate exploration program might involve more geological mapping, prospecting, and geophysics as well as diamond drilling. Special exploration emphasis should be placed on the eastern portion of the Joy 2 claim.

## 2.0 INTRODUCTION

Pursuant to a request by the directors of Brenwest Mining Ltd., an exploration program involving geological mapping, prospecting and geochemical sampling was carried out on the Joy 1 and 2 claims by Hi-Tec Resource Management Ltd. from August to October 1987. The purpose of this program was to evaluate the precious and/or base metal potential of the property.

### 2.1 Property and Ownership

The property is recorded as follows:

| Claim Name | Record No. | No. Units | Record Date | Recorded Owner |
|---|---|---|---|---|
| Joy 1 | 3734 | 20 | Dec. 5, 1986 | I. Hagemoen |
| Joy 2 | 3735 | 20 | Dec. 5, 1986 | I. Hagemoen |
| | **Total:** | **40 Units** | | |

The Joy claim group consists of 2 contiguous claims totalling 40 units in the Liard Mining Division. Both claims are held by I. Hagemoen for Brenwest Mining Ltd.

### 2.2 Location and Access

The Joy 1 and 2 mineral claims are located in the western Iskut River area of northwestern British Columbia. The property is approximately 110 air kilometers northwest of Stewart, B.C., 80 air kilometers east of


## BRITISH COLUMBIA

Scale 1 : 7,500,000 approx.

| BRENWEST MINING LTD. | | |
|---|---|---|
| JOY 1 & 2 CLAIMS<br>LIARD M.D., B.C. | | |
| GENERAL LOCATION MAP | | |
| HI-TEC RESOURCE MANAGEMENT LIMITED | By : | Date: Nov '87 |
| | N.T.S. 104 B/14,15 | Figure: 1 |
| | Scale: see above | |

Wrangell, Alaska and 10 air kilometers east-northeast from the Bronson Creek air strip. The southern boundary of the claims is about 3 km north of the Iskut River (see Figure 2). The claims are located on NTS map sheet 104B/10W and 11 E at latitude 56°45' North and longitude 130°59' West.

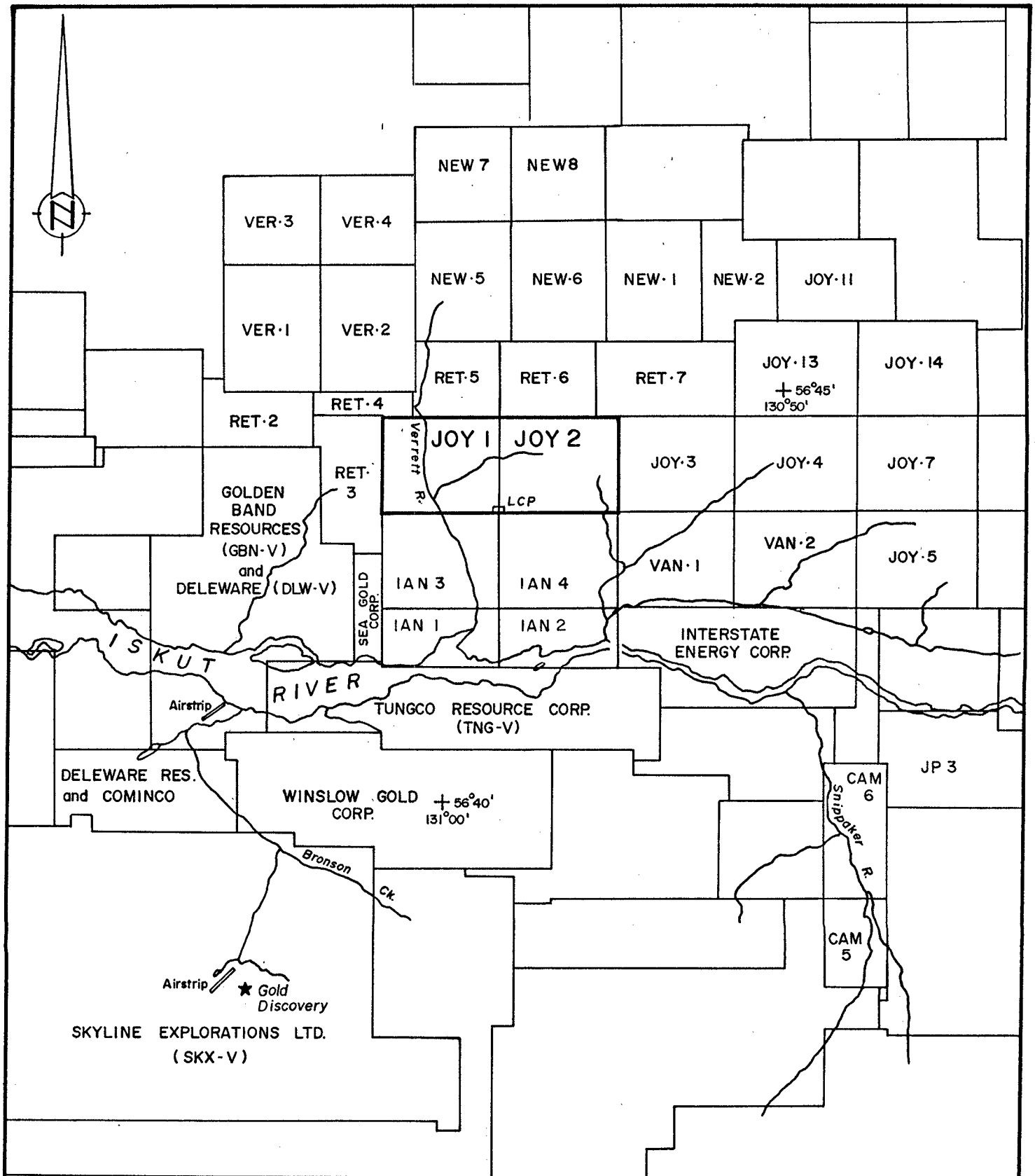
The area is accessible by air from Smithers, Wrangell, Terrace or Stewart to gravel airstrips at Bronson Creek, Snippaker Creek and Johnny Mountain. The nearest road is Highway 37 at Bob Quinn Lake, which is 65 km to the northeast. The only means of access to the Joy property is via helicopter from one of the airstrips. Due to the dense forest growth and steep terrain, helicopter landing sites are not plentiful. However access may be achieved along the Verrett River and above treeline on the eastern portion of the claims.

## 2.3 Physiography

Topographic relief on the Joy 1 and 2 claims ranges from relatively gentle to very steep. Several of the creeks cut deep and inaccessible gorges. Elevations vary from 200m at the Verrett River to greater than 1600 m at the eastern edge of the claim block.

Much of the property supports a mature forest of spruce, fir and hemlock. Tree line is at an elevation of approximately 1200 meters. Below this, undergrowth is dense and consists mostly of devil's club and huckleberry.

The western Iskut River region lies within the coastal wet belt. Hence rainfall and snowfall tend to range from heavy to extreme. Permanent snowfields exist on




# BRENWEST MINING LTD.

## JOY 1 & 2 CLAIMS

LIARD M.D., B.C.

## CLAIM LOCATION MAP

HI-TEC RESOURCE MANAGEMENT LIMITED

| | |
|---|---|
| By: G. KING | Date: Nov '87 |
| N.T.S. 104-B/14,15 | Figure: 2 |
| Scale: 1:110,000 | |

the eastern portion of the claims above approximately 1500 meters elevation.

## 2.4 History and Previous Work

Although the Stikine River served as the access route to the placer deposits of the Cassiar area which were discovered in 1873, there is no record of any prospecting activity in the lower Iskut River area until 1907. In that year, F.E. Bronson and Associates of Wrangell, Alaska staked nine claims on the lower reaches of Bronson Creek, to the north of Johnny Mountain. The Iskut Mining Company was incorporated in 1910, and in 1911 it undertook a program of trenching and drifting on the Iskoot and Red Bluff claims. A report from that program states that a ton of ore from one cut yielded $1.20 in gold, 44.2 ounces of silver and 12.45% of copper.

The Iskut Mining Company's claims were subsequently crown granted in 1914 and 1915 and by 1920, numerous trenches had been dug on these claims, along with a 30 foot adit. The latter revealed a number of veins and stringers hosting galena and gold-silver mineralization.

In 1929, Consolidated Mining and Smelting staked 48 claims on Johnny Mountain. There is no record of any further work on these properties until 1954. In that year, prospectors from Hudson's Bay Mining and Smelting located the Pickaxe showing, and found high grade gold-silver-lead-zinc float on the open, upper slopes of Johnny Mountain. Today, these showings are part of Skyline Exploration's Reg property. Hudson's Bay Mining and Smelting allowed these claims to lapse after performing exploration work on them in the mid-1950's.

In the 1960's a number of major mining companies conducted helicopter borne reconnaissance surveys for potential porphyry copper-molybdenum deposits. Several new claims were staked on Johnny Mountain and along Sulphurets Creek in that period, while Kennco and Noranda investigated the original showings on Johnny Mountain. The original crown grants and surrounding claims were explored by a consortium of Cominco, Copper Soo Mining Ltd., and Tuksi Mining and Development Ltd. in 1965. Some 1,800 feet of diamond drilling in 10 holes was completed by this group. Further geological work was done on these properties in 1968.

Texas Gulf Inc. investigated the porphyry copper potential of Johnny Mountain in 1974. Numerous mining companies conducted exploration work elsewhere in the Iskut River area in the 1960's and 1970's. Among these were Iskut Silver Mines, which conducted programs involving geological and geochemical surveys, trenching and pack-sack drilling on a property located north of the Iskut River and between the Twin and Verrett Rivers.

On various occasions between 1962 and 1972, Newmont Exploration of Canada Ltd. conducted exploration programs involving geological mapping, geophysics and limited diamond drilling on several prospects in an area near the headwaters of Forrest Kerr Creek.

In 1965, Silver Standard Mines commenced work on the E & L prospect, a nickel-copper deposit on Nickel Mountain near the headwaters of Snippaker Creek. This prospect was later optioned by Sumitomo Metal Mining, and by the end of 1971, 1,500 feet of underground work had been completed in addition to intensive trenching, and surface and underground drilling programs.

In 1969, Skyline Explorations Ltd. restaked the Inel property, after having discovered massive sulfide float originating from the head of Bronson Glacier. The Reg property was restaked by Skyline in 1980, and in 1981, a program of trenching and limited diamond drilling was carried out on this property. The Reg property was optioned to Placer Developments Ltd. in 1982, which formed a joint venture program with Anaconda Canada Ltd. to carry out various surveys in addition to trenching and diamond drilling in 1983. Exploration was continued on the property by Anaconda in 1984, after which season it reverted to Skyline Explorations Ltd.

By the end of 1986, Skyline had completed 1,500 feet of underground cross-cutting and drifting in addition to extensive drilling on the Stonehouse Gold Zone. This work confirmed the presence of high grade gold mineralization in addition to silver and copper with good lateral and depth continuity over mineable widths.

Further exploration and development work has been carried out in 1987, as Skyline prepares to bring the Reg Deposit into production. The success of Skyline's program has provided the impetus for an extremely active mining exploration scene in the Iskut River area over the past few years. In 1987, companies such as Western Canadian Mining Corporation, Gulf International Minerals Ltd., Tungco Resources, and Newhawk Gold Mines among others, have carried out extensive drilling programs in the area. Delaware Resources Corporation, in joint venture with Cominco, has carried out a major drilling program on the Snip Property near Bronson Creek, and a production decision is believed to be imminent.

There is no record of extensive exploration work having been done on the area now occupied by the Joy Claim

group prior to 1987. However, the Bax claims of Dupont of Canada Exploration Ltd. occupied in 1980 some of the ground that now is within the Joy 2 claim. A two day program of geochemical sampling was completed by Dupont that year, along with a minor geological examination.

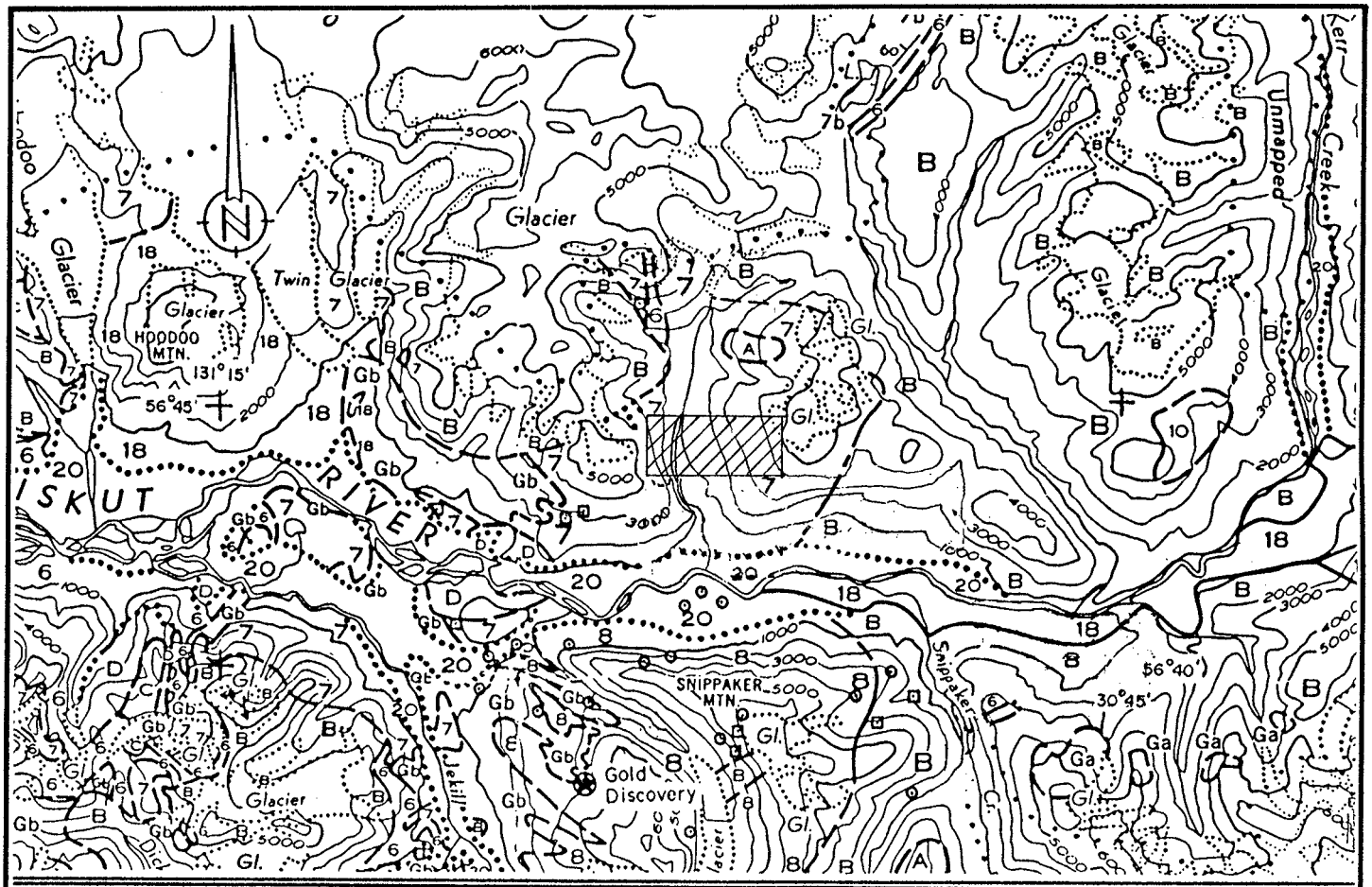
## 3.0 GEOLOGY

### 3.1 Regional Geology and Mineralization

The subject property lies within the western most part of the Intermontane Tectonic Belt, close to its boundary with the Coastal Crystalline Tectonic Belt. As a result of the proximity of this area to a regional tectonic boundary, geologic relationships tend to be quite complex. The geology of this area has been studied by Kerr (1930, 1948), and by Grove (1986), and is represented in Geological Survey of Canada Maps 9-1957, 1418A and 1505A. Figure 3 in this report is a generalized map of regional geology for the area.

The oldest rocks in the area are complexly folded and metamorphosed schists and gneisses of probable mid-Paleozoic age. The metamorphism occurs within and adjacent to a plutonic system. The metamorphic rock is commonly overlain by a white to grey crystalline limestone which is believed to belong to a Late Paleozoic sedimentary sequence that includes some minor greenstone units. This oceanic assemblage is part of the Stewart Complex, a tectonic unit which has been correlated with the Cache Creek Group.

The principal component of the Intermontane Tectonic Belt in the Iskut River area is a Mesozoic volcanic and sedimentary sequence. This was originally regarded as a Late Triassic sequence, correlative with the time




## SEDIMENTARY and VOLCANIC ROCKS

### QUATERNARY RECENT

- 20 — Unconsolidated glacial and fluvial clay, silt, sand, gravel; till; peat, muskeg.
- 18 — Olivine basalt, ash, cinders

### UPPER JURASSIC and LOWER CRETACEOUS

- 12 — Argillite, greywacke, conglomerate, coal.

### JURASSIC and/or EARLIER PRE-UPPER JURASSIC

- 10 — Mainly sedimentary rocks
- 9 — Mainly volcanic rocks; minor conglomerate; greywacke, argillite.

### TRIASSIC

- 8 — Tuff, siltstone, limestone, conglomerate, breccia

### PERMIAN and/or TRIASSIC

- 7 — Volcanic and sedimentary rocks undivided; 7b) mainly greywacke, siltstone, conglomerate

### PERMIAN and (?) EARLIER

- 6 — Limestone, greenstone, chert, argillite, phyllitic quartzite, greywacke; meta-andesite and meta-diorite locally abundant near ultramafic bodies. May include younger greenstone.

## INTRUSIVE ROCKS

- A — Felsite, felsite porphyry
- B — Mainly quartz monzonite, granodiorite, granite
- C — Mainly diorite; minor gabbro
- D — Granite porphyry, granophyre, syenite and related rocks

## METAMORPHIC ROCKS

### PERMIAN and/or EARLIER PRE MIDDLE PERMIAN

- G — Ga) Gneiss Gb) phyllite, quartzite, minor crystalline limestone, highly altered and sheared greywacke and volcanic rock.

Geological boundary (defined, approximate, assumed)

Bedding (inclined)

Heavy mineral concentrate

Mineral occurrence

0 5 10 15
kilometres

from GSC map 9-1957 w

# BRENWEST MINING LTD.

## JOY 1 & 2 CLAIMS

LIARD M.D. ; B.C.

# REGIONAL GEOLOGY

HI-TEC RESOURCE MANAGEMENT LIMITED

| | | |
|---|---|---|
| By: G. KING | | Date: Nov '87 |
| N.T.S. 104 B/14,15 | | Figure: 3 |
| Scale: 1 : 250,000 | | |

equivalent Stuhini Volcanics; a theory which is supported by the presence of Monotis fossils on the north slope of Snippaker Peak and to the west of Newmont Lake. Grove (1986), however, correlates this unit with the Middle Jurassic Unuk River Formation of the Stewart Complex.

On the north slopes of Johnny Mountain and Snippaker Peak, Paleozoic metasedimentary rocks are found to overlie the Mesozoic sequence. These apparently represent the upper plate of a regional, east-west trending thrust fault, which pushed up and over to the south in a manner similar to that of the King Salmon Thrust Fault.

In the Coast Crystalline Tectonic Belt, Paleozoic and Mesozoic sequences are commonly intruded by plutonic rocks of quartz monzonite to quartz diorite composition. These intrusions are Late Cretaceous to Early Tertiary in age. To the east of the main intrusive complex, smaller granitic plugs and stocks are prevalent.

Quarternary flows and ash deposits of olivine basalt are the youngest rocks in the area. Hoodoo Mountain is underlain by this unit, which also occurs in parts of the valleys of the Iskut River and Snippaker Creek.

The first mineral showing to be discovered in the western Iskut River area was located on Bronson Creek, two miles upstream from its confluence with the Iskut River. This is in the vicinity of the property currently being explored by the Delaware Resources-Cominco joint venture. The original showing was marked by a prominent zone of gossan and extensive alteration peripheral to an orthoclase porphyry intrusion. In this vicinity, there is a zone of sheared and altered volcanic and sedimentary rocks which is two miles long by 1,000 to 2,000

feet wide. In this alteration zone, pyritization varies from fracture fillings and disseminations to nearly massive pyrite. Other sulfides which occur in lesser abundance include arsenopyrite, chalcopyrite, galena, sphalerite, tetrahedrite and molybdenite in fractures and quartz veinlets within and adjacent to the intrusion. Significant values of gold, copper and silver were revealed by early work on this zone.

Numerous quartz-sulfide veins and skarn deposits have been reported from various locations along the Iskut River. Low gold values, and good grades of silver, copper, lead and zinc occur in many of these. Mineralized float has been observed below several glaciers in the area.

Near the headwaters of Snippaker Creek, Silver Standard Mines Ltd. and later Sumitomo Metal Mining did extensive surface and underground work on a copper and nickel bearing gabbro intrusion. A total of 3.2 million tons of 0.80% nickel and 0.60% copper have been confirmed in this deposit. However, this has been a low priority target over the past several years, as a result of depressed base metal prices and the relative remoteness of the location.

The two most significant mineral deposits subject to current investigation in the Iskut River area are the Skyline Explorations Ltd. Reg property on the north slope of Johnny Mountain and the Delaware Resources-Cominco Ltd. joint venture Snip property near Bronson Creek. These properties are only five kilometers apart and appear to be quite similar in nature.

At least seven auriferous, mineral rich quartz veins are known to occur on Skyline's Reg property. These are

collectively known as the Stonehouse Gold Zone. This zone is hosted in an east-west striking, northerly dipping sequence of Jurassic volcaniclastics and porphyritic flows. A sequence of Middle Jurassic volcanic breccias and well stratified volcanic tuffs and sediments unconformably overlie the mineralized unit. Steeply dipping northeast trending fractures are the only known mineralization environment in the Stonehouse Gold Zone. These are developed in a zone some 4,700 feet long and 900 feet wide. The mineralized zones consist of pods, lenses and quartz veins which contain a variety of sulphide and sulphosalt mineralization in addition to native gold and electrum. Adjacent to the zones, extensive K-feldspar alteration occurs in the wallrock.

In addition to gold, copper and silver also occur in significant quantities. Grove (1986) estimated the known reserves at that time to be 938,446 tons grading 0.73 oz Au/ton, 0.85 oz Ag/ton and 0.76% Cu.

On the Delaware-Cominco joint venture's Snip property, four quartz-carbonate-pyrite shear veins with high gold values have been discovered. These strike 110° to 120° and dip 65° to the southwest, and occur in Mesozoic tuffs and arenites that have been intruded by a dike-like orthoclase porphyry. Extensive K-feldspar, silica, and pyrite alteration is associated with these zones.

## 3.2 Property Geology

Geological mapping conducted by the author on the Joy 1 and 2 claims has delineated a sequence of volcanic and sedimentary rocks which has been intruded by several small igneous bodies of felsic to intermediate composition.

The dominant lithology on the property is an extensive unit of intermediate volcanics. This material has been encountered elsewhere in the region, where its most distinctive feature is the presence of rounded inclusions of plagioclase porphyry material. Such inclusions occur in outcrop in the southern part of the Joy 2 claim, but were not observed to the north. Here, porphyry material occurs in irregular horizons in massive volcanics. Propylitic alteration is pervasive and intense in this unit, and generally has obliterated primary textural features. Plagioclase phenocrysts are almost always saussuritized and massive epidote commonly occurs as fracture filling material in these volcanics.

The massive, homogenous nature of the intermediate volcanics on the Joy claims, in addition to the high magnetite content of this unit, has led to the suggestion that these rocks are in fact doleritic or microdioritic in composition. The author, however, is of the opinion that this lithology represents the hypabyssal components of an extensive flow sequence.

Distinctive volcaniclastic horizons are encountered in the andesites which outcrop in the northeastern part of the Joy 2 claim. Agglomerates and volcanic breccias with clasts up to 10 cm in diameter are frequently encountered in this area of the property. Talus piles below outcrops of the more massive volcanics in this area commonly contain polygonal shaped blocks which are suggestive of columnar jointing.

In the central part of the Joy 2 claim, some unique alteration patterns are encountered. These include extensive zones of clay alteration, which appear as brownish, rusty colored areas in outcrop. Zones of

intense silicification are also present. Hematization is commonly associated with the clay alteration zones, and specular hematite occurs occasionally in fractures.

A few well-bedded chert horizons are interbedded with the volcanics in the central part of the Joy 2 claim at 4,000 to 4,500 foot elevation. Other sedimentary rocks on the Joy claims include argillite and limestones. Argillites are encountered in the southeastern part of the Joy 2 claim. In the north-central part of the Joy 2 claim at 3,400 foot elevation, there are several outcrops of massive argillite. This material has undergone moderate to intense alteration, and bedding features are not discernible.

A unit of buff-orange weathering limestone occurs in the southeast corner of the Joy 2 claim. This material has been encountered elsewhere in the vicinity, and may represent a significant marker horizon. In this location, it strikes at 015$^{o}$ and dips 71$^{o}$ to the west.

A massive unit of greyish-white, crystalline limestone with occasionally abundant crinoid fossil fragments is encountered on the east side of the Verrett River in the Joy 1 claim. This is a very resistive unit, and outcrops as prominent hummocks in the low lying areas adjacent to the river. The mode of outcropping of this unit, and its confinement to the bottom of the Verrett River Valley, leads the author to conclude that this unit may be unconformable with the volcanic and sedimentary sequence which occupies much of the Joy claims.

The most significant intrusive body on the Joy property is a stock of granitic to granodioritic composition which outcrops in the north central part of the Joy 2 claim. The peripheral areas of the intrusion have

undergone intense sericite and epidote alteration, and the original texture of this material has been obliterated. Epidote is abundant in this intrusion, and massive epidote commonly occurs in fractures within the material. Quartz-epidote veins are occasionally present near the contact of this stock with the surrounding volcanics. Part of the southern boundary of this intrusion appears to be a fault contact with the volcanic unit. This contact strikes at approximately 075°.

In the southern part of the Joy 2 claim, several intrusive bodies of syenitic to dioritic composition intrude the volcanics. The largest of these is approximately 100 meters in diameter.

Dykes of mafic composition are abundant in the Joy 2 claim. There is a minor dyke swarm near the contact of the granite stock with the massive intermediate volcanics. These dykes rarely exceed one meter in width, and the majority of these in this particular area strike at 090° to 110° and dip nearly vertical.

A number of small, whitish-pink aplite sills occur in the volcanics immediately adjacent to the granite stock. The widest of these reaches 1.5 meters in width. These are flat lying bodies, with dips rarely exceeding 20°. Strike and dip directions of these sills are variable.

The structural geology of the Joy claims is extremely complex. This is indicated by the variety of bedding orientations encountered, and the abundance of faults and shear zones which occur in the Joy 2 claim. A geophysical survey conducted on a grid in the north-central part of the Joy 2 claim indicates that the volcanic rocks here have undergone intense folding.

The Verrett River Valley very probably represents a graben or rift structure of regional extent.

## 3.3 Mineralization

The most significant mineralization occurrence discovered on the Joy property to date is an intensely oxidized, pyrite and chalcopyrite bearing shear zone in altered andesites. This showing is located in the north central part of the Joy 2 claim, and occurs in close proximity to a contact between the volcanic unit and a granitic stock. This shear zone is exposed over a strike length which is estimated by the author to be at least 20 meters and is mineralized over a width of 30 centimeters. Sample 87-BGR-011, a high grade sample taken from this showing, yielded a fire assay value of 190.0 g/tonne (5.542 oz/ton) gold, and geochem values of 226.3 ppm silver (6.6 oz Ag/ton) and 5,701 ppm copper. Highly anomalous gold, silver and copper values were also recorded in samples from a smaller shear zone which converges with the main showing.

Sulfide bearing shear zones, quartz veins and zones of intense clay alteration elsewhere on the Joy 2 claim commonly contain anomalous gold values (Figure 5).

A zone of pyrite mineralization which occurs near the convergence of two small shear zones was discovered in a creek bed in the Joy 1 claim, approximately 300 meters east of the Verrett River. Geochemical analysis of a sample of this material yielded a gold value of 1,350 ppb.

## 4.0 PROPERTY GEOCHEMISTRY

The objective of the 1987 program was to identify areas of interest on the property on which to focus future exploration efforts. A total of 128 rock grab samples, 182 soil samples and 38 stream sediment samples were taken on the Joy 1 and 2 mineral properties.

The soil sampling program involved the establishment of 6.4 km of grid in the north-central part of the Joy 2 claim. Samples were taken at 20 meter intervals on the grid in all cases where soil development was present. An effort was made to collect B horizon soil wherever possible. Sample depths averaged 15 cm.

An effort was made during the 1987 field season to collect stream sediment samples from all drainages on the property. These samples generally consisted of silt and/or fine sand taken from stream beds.

Rock grab samples were taken in the course of the prospecting and geological mapping program. These samples generally contained sulphide mineralization and many of them were procured from quartz veins and stringers.

All samples collected were analyzed for gold, copper, lead, zinc, silver, arsenic and antimony at Min-En Laboratories Ltd. of 705 West 15th Street, North Vancouver, B.C.

## 4.1 Discussion of Geochemical Results

### 4.1.1 Rock Geochemistry

Anomalous base and precious metal values were obtained from several of the rock grab samples taken on the Joy claims. Results for each analyzed element are discussed below:

**Gold:** Fifty-five of the rock grab samples yielded gold values exceeding 50 ppb. An exceptionally high assay value, 5.542 oz/ton (190.00 g/tonne), was recorded in sample 87-BGR-011.

**Silver:** Thirteen of the rock grab samples yielded silver values exceeding 4 ppm. An especially high value 226.3 ppm, was recorded in sample 87-BGR-011.

**Arsenic:** No significant arsenic anomalies were recorded in the rock grab samples. Four samples yielded arsenic values exceeding 30 ppm, and the highest value, 50 ppm arsenic, was recorded in sample 87-BBR-012.

**Antimony:** Four of the rock grab samples yielded slightly anomalous antimony values exceeding 10 ppm. The highest antimony value, 39 ppm, was recorded in sample 87-BKR-044.

**Copper:** Twenty-one of the rock grab samples yielded copper values exceeding 300 ppm. The highest value, 5,701 ppm, was recorded in sample 87-BGR-011.

**Lead:** Lead values exceeding 40 ppm were recorded in ten of the rock grab samples. The highest value, 796 ppm, was recorded in sample 87-BNR-014.

**Zinc:** There were no significant zinc anomalies recorded in the rock grab samples. The highest zinc value, 209 ppm, was recorded in sample 87-BKR-029.

4.1.2 Soil Geochemistry

Anomalous values in base and precious metals were recorded in some of the soil samples taken from the BA grid. Results for each analyzed element are discussed below.

**Gold:** Anomalous gold values were recorded in soil samples taken at seven stations on the grid. These are isolated occurrences. An exceptionally high value of 3,250 ppb was recorded in a sample taken at the 0+40W 0+00N station, which is near the shear zone from which the 87-BGR-011 rock sample was taken.

**Silver:** Slightly anomalous silver values were recorded in samples taken from two stations on the grid. The highest silver value, 6.3 ppm was recorded in a sample from the 0+40W 0+00N station, while a value of 3.7 ppm was recorded in a sample from the 1+20W, 1+20S station.

**Arsenic:** Slightly anomalous arsenic values exceeding 40 ppm were recorded in samples taken at four stations. These were: L0+40W 0+60S (45 ppm); 0+00 2+40S (49 ppm); 0+00 3+40S (41 ppm); and 0+00 4+00S (48 ppm).

**Antimony:** Significant antimony anomalies were recorded in samples taken at two stations. These were 0+00 1+40S (59 ppm) and 1+00E 0+00S (49 ppm).

**Copper:** Anomalous copper values exceeding 250 ppm were recorded in samples taken at three stations. The high-

est value, 767 ppm copper, was recorded in a sample taken at 0+40W 0+00N, which is close to the 87-BGR-011 high grade rock sample location. Anomalies also occur at L 0+80E 0+00S (485 ppm copper) and at 0+00 2+20N (296 ppm copper).

**Lead:** Slightly anomalous lead values exceeding 30 ppm were recorded in samples taken from the following stations: 1+20W 3+40S (34 ppm lead), 0+40E 1+20S (33 ppm lead), and 1+20W 1+20S (31 ppm lead).

**Zinc:** Slightly anomalous zinc values exceeding 175 ppm were recorded in samples taken at two stations. These were: 0+40W 0+20S (226 ppm) and 0+80E 1+80S (192 ppm).

### 4.1.3 Stream Sediment Geochemistry

Anomalous assay values in base and precious metals were recorded in some of the stream sediment samples taken on the Joy claims. Results for each analyzed element are discussed below:

**Gold:** Anomalous gold values exceeding 30 ppb were recorded in ten samples. The five highest values were: 87-BGL-006 (175 ppb), 87-BSL-017 (115 ppb), 87-BNL-010 (85 ppb), 87-BSL-020 (85 ppb) and 87-BSL-028 (65 ppb).

**Silver:** One sample, 87-BKL-036 yielded an anomalous silver value of 4.5 ppm.

**Arsenic:** One sample yielded an anomalous arsenic value of 36 ppm. This was sample 87-BKL-036.

**Antimony:** A slightly anomalous antimony value of 9 ppm was recorded in sample 87-BKL-036.

**Copper:** Slightly anomalous copper values exceeding 150 ppm were recorded in two samples: 87-BGL-004 (208 ppm) and 87-BNL-013 (176 ppm).

**Lead:** Slightly anomalous lead values exceeding 30 ppm were recorded in two samples 87-BML-001 (44 ppm) and 87-BSL-016 (31 ppm).

**Zinc:** Anomalous zinc values exceeding 200 ppm were recorded in two samples: 87-BML-007 (288 ppm) and 87-BSL-006 (209 ppm).

## 5.0 GEOPHYSICAL SURVEY

### 5.1 Results of VLF-EM and Magnetometer Survey

A detailed grid consisting of 6.4 km was established over the northeastern portion of the Joy 1 & 2 claim group. This provided control for soil geochemistry and a VLF-EM/magnetometer survey in order to delineate the source and nature of highly anomalous results gathered earlier in this years exploration program. The grid, labelled "A", was tied into the 1:5,000 geological mapping and it's location can be seen on the geochemical results maps (Figure 5, 6 and 7).

A baseline was chained east and west ($70^{o}$ - $250^{o}$) a total of 240 meters from the most anomalous showing, as close to strike as was functionally possible. Detailed crosslines were then chained and picketed at 20 meter intervals, with stations every 10 meters. At the southern end of the grid line spacings were doubled to 40 meters.

The geophysical survey was conducted with an EDA Omni Plus VLF-EM/magnetometer (serial no. 208035) as the

field system and the EDA Omni IV magnetometer as the recording base station. Both systems are microprocessor based. In the field, magnetic total field and vertical gradient readings and VLF-EM in-phase, quadrature and total field readings were stored automatically. The base station recorded the magnetic diurnal variations. Using a Toshiba T1100 computer the data was stored, diurnal variations corrected then contoured or profiled.

The VLF transmitting station in Lualualei, Hawaii (23.4 Khz) was recorded on this grid as it most closely aligned with the geological contacts and trends.

"A" Grid Survey Results

The magnetic survey results, corrected for diurnal variations, and contoured to bring out the magnetic highs and their flanks can be seen on Figure 11a. Readings ranged approximately 1400 gammas from 56,900 gammas to 58,300 gammas. Several zones of high magnetics are noted. In the vicinity of the baseline through the northern half of the grid there is a high degree of magnetic variation. The magnetic highs in this region exhibit short local trends to the north and northwest, however, on the larger scale the magnetic features indicate the possibility of folded structures. On the baseline at 0+20W one such folded high magnetics anomaly is noted, which is coincident with anomalous rock assays.

The southern portion of the grid exhibits a lesser degree of magnetic variation. The results show primarily lower magnetics with the exception of 2 high magnetic anomalies at: 3+50S, LN 0+80W through LN 1+20W; and at 4+20S, LN 0+00, through LN 0+80E.

The VLF-EM, Fraser Filtered results show numerous anomalous zones of varying magnitudes (Figure 11b). Of particular interest are 2 anomalous conductive zones on the north- central portion of the grid. Spanning LN 0+20W through LN 1+20W, between stations 0+50N and 0+90N, is a conductive zone coincident with a high magnetics anomaly, perhaps reflecting a conductive contact. A second conductive anomaly is centered at the baseline, 0+20W, and spans LN 0+00 through LN 1+20W. It is coincident with a folded magnetic high feature and anomalous rock assay results.

## 6.0 CONCLUSIONS

The Joy 1 and 2 claims are underlain by a sequence of sedimentary and volcanic rocks which is intruded by several small igneous bodies of felsic to intermediate composition. Anomalous gold values were recorded in samples taken from several localities in the andesitic volcanics of the Joy 2 claim. Most of these were samples from quartz veins and shear zones. Samples taken in zones of clay alteration consistently yielded enhanced gold values. The most significant mineralization occurrence discovered during the 1987 exploration program was a pyrite and chalcopyrite bearing shear zone from which a fire assay value of 190.0 g/tonne (5.542 oz/ton) gold, and geochem values of 226.3 ppm silver (6.6 oz Ag/ton) and 5,701 ppm copper were obtained. This shear zone is mineralized over a width of 30 cm, and is exposed over an estimated strike length of at least 20 meters.

The presence of extensive clay alteration zones, and the abundance of sulphide mineralization occurrences with elevated gold values indicate that the andesitic volcanics of the Joy 2 claim may hold the potential for

significant precious metal occurrences. In light of this encouraging evidence, further exploration work is highly recommended.

## 7.0 RECOMMENDATIONS

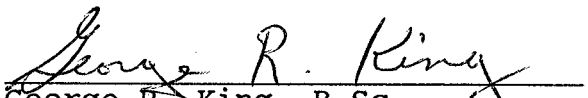
In order to fully appraise the gold potential of the Joy property, an exploration program involving further mapping and prospecting, geophysics, and diamond drilling should be undertaken.

A program of airborne magnetometer and VLF-EM surveys should be conducted over the entire property in order to identify plausible exploration targets and to augment an interpretation of the complex structural geology of the property. A ground magnetometer and VLF-EM survey might be considered for selected areas of interest.

A program of intense geological mapping and prospecting should be conducted in the northeastern portion of the Joy 2 claim. The purpose of such a program will be to delineate more plausible drill targets. The existing targets should be tested by diamond drilling.

Further reconnaissance exploration work should be conducted in the western part of the Joy 2 claim. In order to facilitate practical access to this area of the property, one or more helicopter pads should be cleared. The services of an experienced faller should be enlisted for this purpose, as the size of timber in this area is considerable.

Respectfully submitted,
HI-TEC RESOURCE MANAGEMENT LTD.



December 14, 1987

George R. King, B.Sc.,
Geologist

# APPENDIX I

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# APPENDIX II

## Statement of Qualifications

## STATEMENT OF QUALIFICATIONS

I, GEORGE R. KING, of Suite 5, 736 West 14th Avenue, Vancouver, British Columbia, do hereby certify:

1. That I am a geologist in the employment of Hi-Tec Resource Management Ltd., with offices at Suite 1500 - 609 Granville Street, Vancouver, British Columbia.

2. That I am a graduate from the University of Saskatchewan in Saskatoon (1985) with a Bachelor of Science Degree in Geology.

3. That my primary employment since 1981 has been in the field of mineral exploration.

4. That my experience has encompassed a wide range of geologic environments, and has allowed considerable familiarization with geological mapping, prospecting, geochemical and geophysical techniques.

5. That I have no interest in the property described herein, nor in securities of any company associated with the property, nor do I expect to receive any such interest.

6) That I hereby grant permission to Brenwest Mining Ltd. for the use of this report in any prospectus or other documentation required for any regulatory authority.

Dated at Vancouver, British Columbia this 16th day of December, 1987.

George R. King

George R. King, B.Sc.,
Geologist

# APPENDIX III

## Laboratory Analytical Methods

## LABORATORY ANALYTICAL METHODS

After intial preparation, all samples were analyzed by the Inductively Coupled Plasma (ICP) method for Ag, As, Cu, Pb, Sb and Zn. Gold was determined by the fire assay and atomic absorption method.

After drying soil and stream sediment samples at 95°C, they were screened with an 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. For some of the silt samples, 40 mesh or 20 mesh sieves were used. Rock samples were put through a jaw crusher and a ceramic-plated pulverizer.

For ICP analyses, 1.0 gram of sample material was digested for 6 hours with a hot $HNO_3$ - $HClO_4$ mixture. After cooling, samples were diluted to a standard volume. The solutions were then analyzed by a computer-operated Jarrell Ash ICP Analyzer. Reports are formated by a route computer dotline printout.

For Au analyses, a suitable sample weight of 15 or 30 grams was fire assay preconcentrated. Samples were then digested with an Aqua Regia solution and then taken up to suitable volume by adding a 25% HCl solution. Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with methyl iso-butyl ketone. Gold is analyzed by Atomic Absorption instruments using a suitable standard solution. The detection limit is 1 ppb.

# APPENDIX IV

## Geochem Results

| (VALUES IN PPM ) | AG | AS | CU | PB | SB | ZN | AU-PPB |
|---|---|---|---|---|---|---|---|
| 87 BBR 1 | 4.5 | 1 | 16 | 18 | 4 | 52 | 29 |
| 87 BBR 2 | 5.0 | 22 | 213 | 90 | 10 | 108 | 2 |
| 87 BBR 3 | 1.6 | 1 | 1072 | 16 | 5 | 43 | 3 |
| 87 BBR 4 | 1.0 | 1 | 99 | 26 | 3 | 44 | 2 |
| 87 BBR 5 | .8 | 2 | 33 | 10 | 4 | 40 | 23 |
| 87 BBR 6 | 1.2 | 6 | 17 | 19 | 3 | 81 | 55 |
| 87 BBR 7 | .4 | 10 | 18 | 5 | 2 | 26 | 10 |
| 87 BBR 8 | 2.1 | 10 | 11 | 27 | 4 | 55 | 1050 |
| 87 BBR 9 | 1.2 | 2 | 15 | 13 | 3 | 35 | 210 |
| 87 BBR 10 | .7 | 6 | 9 | 7 | 2 | 27 | 2 |
| 87 BBR 11 | 1.6 | 6 | 25 | 18 | 3 | 45 | 780 |
| 87 BBR 12 | 1.6 | 50 | 84 | 20 | 2 | 65 | 1 |
| 87 BBR 13 | 1.7 | 12 | 54 | 9 | 3 | 68 | 2 |
| 87 BBR 14 | 1.9 | 1 | 129 | 9 | 11 | 24 | 10 |
| 87 BBR 16 | 1.6 | 13 | 93 | 16 | 7 | 59 | 4 |
| 87 BBR 18 | 2.3 | 13 | 125 | 19 | 5 | 50 | 7 |
| 87 BBR 19 | 2.6 | 1 | 385 | 11 | 3 | 40 | 14 |
| 87 BBR 20 | 1.6 | 36 | 22 | 17 | 9 | 148 | 20 |
| 87 BBR 21 | 1.9 | 3 | 115 | 18 | 2 | 43 | 17 |
| 87 BBR 22 | 2.5 | 21 | 52 | 14 | 1 | 67 | 10 |
| 87BBR30 | .8 | 1 | 42 | 17 | 1 | 21 | 32 |
| 87BBR31 | 2.3 | 9 | 19 | 16 | 1 | 15 | 65 |
| 87BBR32 | 5.7 | 13 | 501 | 18 | 2 | 26 | 2100 |
| 87BBR33 | .9 | 10 | 16 | 17 | 1 | 22 | 1400 |

| (VALUES IN PPM ) | AG | AS | CU | PB | SB | ZN | AU-PPB |
|---|---|---|---|---|---|---|---|
| 87 BGR 05 | 1.3 | 11 | 11 | 16 | 3 | 83 | 78 |
| 87 BGR 08 | 1.4 | 27 | 144 | 22 | 3 | 152 | 13 |
| 87 BGR 09 | 3.8 | 4 | 48 | 15 | 4 | 86 | 870 |
| 87 BGR 10 | 1.8 | 10 | 53 | 16 | 3 | 43 | 34 |
| 87 BGR 11 | 226.3 | 23 | 5701 | 11 | 2 | 81 | 100000 |
| 87 BGR 12 | 2.3 | 15 | 34 | 11 | 2 | 26 | 240 |
| 87 BGR 13 | 1.6 | 5 | 31 | 56 | 1 | 15 | 53 |
| 87 BGR 14 | 6.8 | 1 | 918 | 19 | 1 | 73 | 128 |
| 87 BGR 15 | .9 | 6 | 340 | 11 | 1 | 26 | 46 |
| 87 BGR 16 | 2.9 | 11 | 208 | 13 | 2 | 55 | 220 |
| 87 BGR 17 | 1.4 | 4 | 388 | 11 | 6 | 38 | 175 |
| 87 BGR 18 | .7 | 6 | 102 | 9 | 6 | 25 | 44 |
| 87 BGR 19 | .8 | 12 | 22 | 15 | 5 | 85 | 8 |
| 87 BGR 20 | 1.8 | 15 | 33 | 7 | 5 | 57 | 2850 |
| 87 BGR 21 | 1.6 | 29 | 22 | 11 | 3 | 78 | 157 |
| 87 BGR 22 | 3.6 | 28 | 290 | 14 | 4 | 79 | 123 |
| 87 BGR 23 | 1.4 | 27 | 242 | 9 | 9 | 60 | 67 |
| 87 BGR 24 | 3.4 | 30 | 281 | 12 | 5 | 64 | 3600 |
| 87 BGR 25 | 1.4 | 7 | 32 | 15 | 2 | 32 | 230 |
| 87 BGR 26 | 2.0 | 2 | 76 | 19 | 1 | 26 | 87 |

| (VALUES IN PPM ) | AG | AS | CU | PB | SB | ZN | AU-PPB |
|---|---|---|---|---|---|---|---|
| 87 BKR 01 | 6.2 | 25 | 1780 | 19 | 4 | 44 | 23 |
| 87 BKR 02 | 3.1 | 16 | 270 | 45 | 1 | 76 | 26 |
| 87 BKR 03 | 1.2 | 16 | 24 | 17 | 1 | 26 | 23 |
| 87 BKR 04 | 2.6 | 6 | 20 | 26 | 5 | 63 | 132 |
| 87 BKR 06 | .7 | 11 | 61 | 10 | 1 | 34 | 45 |
| 87 BKR 07 | 2.8 | 16 | 61 | 7 | 6 | 55 | 950 |
| 87 BKR 08 | 4.7 | 28 | 449 | 29 | 9 | 66 | 157 |
| 87 BKR 09 | 2.3 | 20 | 44 | 11 | 2 | 94 | 12 |
| 87 BKR 010 | 3.2 | 30 | 77 | 10 | 5 | 93 | 590 |
| 87 BKR 011 | .6 | 10 | 6 | 12 | 4 | 42 | 34 |
| 87 BKR 12 | 1.0 | 13 | 9 | 15 | 2 | 36 | 2 |
| 87 BKR 13 | 2.5 | 22 | 2680 | 19 | 6 | 49 | 43 |
| 87 BKR 14 | .7 | 7 | 41 | 7 | 3 | 15 | 3 |
| 87 BKR 15 | 1.9 | 20 | 153 | 31 | 15 | 75 | 46 |
| 87 BKR 16 | 1.1 | 1 | 128 | 26 | 7 | 33 | 92 |
| 87 BKR 17 | 1.9 | 5 | 1776 | 9 | 5 | 25 | 68 |
| 87 BKR 18 | 2.9 | 16 | 201 | 40 | 5 | 54 | 35 |
| 87BKR 19 | .5 | 6 | 24 | 16 | 1 | 45 | 54 |
| 87BKR 20 | 1.6 | 12 | 305 | 13 | 1 | 61 | 104 |
| 87BKR 21 | 2.1 | 6 | 81 | 12 | 2 | 61 | 28 |
| 87BKR 22 | 1.3 | 13 | 31 | 14 | 2 | 67 | 58 |
| 87BKR 23 | .2 | 7 | 19 | 9 | 1 | 14 | 39 |
| 87BKR 24 | 5.6 | 14 | 349 | 11 | 3 | 59 | 1800 |
| 87BKR 25 | .7 | 4 | 19 | 7 | 2 | 18 | 22 |
| 87BKR 26 | 1.2 | 19 | 48 | 20 | 3 | 136 | 77 |
| 87BKR 27 | 2.2 | 12 | 9 | 11 | 3 | 45 | 63 |
| 87BKR 28 | .5 | 1 | 28 | 13 | 2 | 24 | 42 |
| 87BKR 29 | 32.8 | 20 | 5329 | 25 | 1 | 201 | 12000 |
| 87BKR 30 | 3.4 | 25 | 620 | 19 | 2 | 209 | 195 |
| 87BKR 31 | 2.8 | 19 | 187 | 24 | 3 | 159 | 79 |
| 87BKR 32 | 75.6 | 5 | 1410 | 17 | 4 | 100 | 25000 |
| 87BKR 33 | 49.1 | 4 | 651 | 23 | 2 | 28 | 35000 |
| 87BKR 34 | 3.1 | 13 | 27 | 14 | 5 | 98 | 235 |
| 87BKR 35 | 1.4 | 22 | 67 | 18 | 3 | 102 | 600 |
| 87BKR 39 | 2.9 | 17 | 224 | 13 | 2 | 63 | 112 |
| 87BKR 41 | 1.1 | 6 | 179 | 18 | 4 | 86 | 71 |
| 87BKR42 | .9 | 7 | 79 | 90 | 1 | 132 | 24 |
| 87BKR43 | 3.1 | 6 | 389 | 168 | 8 | 86 | 4 |
| 87BKR44 | 10.8 | 11 | 247 | 62 | 39 | 106 | 14 |
| 87BKR45 | 1.2 | 3 | 26 | 40 | 1 | 37 | 7 |
| 87BKR46 | 2.3 | 19 | 43 | 30 | 4 | 66 | 132 |
| 87BKR47 | 1.6 | 8 | 20 | 35 | 1 | 57 | 3 |
| 87BKR48 | .8 | 1 | 15 | 16 | 1 | 31 | 58 |
| 87BKR49 | 2.9 | 24 | 9 | 15 | 6 | 39 | 62 |
| 87BKR50 | 2.3 | 28 | 40 | 21 | 4 | 58 | 225 |
| 87BKR51 | .6 | 6 | 5 | 12 | 2 | 59 | 46 |
| 87BKR52 | 1.0 | 7 | 4 | 10 | 2 | 77 | 42 |
| 87BKR53 | 1.1 | 1 | 14 | 11 | 2 | 31 | 285 |
| 87BKR54 | 1.7 | 7 | 3 | 23 | 3 | 60 | 28 |
| 87BKR55 | 1.8 | 12 | 38 | 12 | 1 | 52 | 17 |

| (VALUES IN PPM ) | AG | AS | CU | PB | SB | ZN | AU-PPB |
|---|---|---|---|---|---|---|---|
| 87 BMR 05 | 1.0 | 45 | 195 | 22 | 9 | 52 | 36 |
| 87 BMR 06 | 1.1 | 35 | 107 | 21 | 4 | 64 | 14 |
| 87 BMR 09 | 2.1 | 9 | 29 | 16 | 6 | 52 | 1350 |
| 87 BMR 10 | 1.8 | 20 | 34 | 17 | 7 | 51 | 930 |
| 87 BMR 14 | 4.9 | 8 | 399 | 20 | 8 | 51 | 65 |
| 87 BMR 15 | 3.7 | 9 | 86 | 20 | 1 | 64 | 27 |
| 87 BMR 16 | 3.7 | 15 | 247 | 23 | 6 | 94 | 34 |

| (VALUES IN PPM ) | AG | AS | CU | PB | SB | ZN | AU-PPB |
|---|---|---|---|---|---|---|---|
| 87 BNR 1 | 1.2 | 9 | 115 | 33 | 1 | 129 | 90 |
| 87 BNR 2 | 1.8 | 1 | 15 | 32 | 3 | 83 | 14 |
| 87 BNR 5 | 1.2 | 3 | 25 | 15 | 2 | 86 | 34 |
| 87 BNR 6 | 1.4 | 2 | 20 | 24 | 1 | 88 | 13 |
| 87 BNR 7 | 1.5 | 1 | 3 | 4 | 2 | 63 | 20 |
| 87 BNR 8 | .7 | 1 | 37 | 4 | 3 | 43 | 25 |
| 87 BNR 9 | 1.8 | 13 | 3 | 18 | 5 | 53 | 25 |
| 87 BNR 11 | 3.5 | 24 | 15 | 21 | 1 | 201 | 3 |
| 87 BNR 12 | 1.6 | 9 | 44 | 51 | 3 | 96 | 4 |
| 87 BNR 14 | 2.8 | 12 | 12 | 796 | 5 | 176 | 2 |
| 87 BNR 15 | 2.8 | 13 | 35 | 22 | 2 | 73 | 1 |
| 87 BNR 16 | 1.9 | 26 | 45 | 53 | 1 | 72 | 2 |
| 87 BNR 17 | 2.3 | 1 | 268 | 20 | 15 | 65 | 35 |
| 87 BNR 18 | 1.6 | 12 | 28 | 38 | 1 | 55 | 1 |

| (VALUES IN PPM ) | AG | AS | CU | PB | SB | ZN | AU-PPB |
|---|---|---|---|---|---|---|---|
| 87 BSR 5 | 2.6 | 16 | 25 | 29 | 1 | 154 | 18 |
| 87 BSR 12 | .7 | 2 | 8 | 10 | 2 | 35 | 8 |
| 87 BSR 13 | .6 | 5 | 15 | 12 | 2 | 44 | 1 |
| 87 BSR 14 | .4 | 4 | 6 | 7 | 2 | 20 | 2 |
| 87 BSR 15 | 1.4 | 1 | 8 | 10 | 3 | 39 | 3 |
| 87 BSR 18 | 2.3 | 8 | 172 | 48 | 7 | 57 | 51 |
| 87 BSR 19 | 3.5 | 15 | 323 | 67 | 10 | 54 | 20 |
| 87 BSR 22 | 1.4 | 2 | 9 | 18 | 1 | 84 | 88 |
| 87 BSR 23 | 2.3 | 1 | 13 | 10 | 3 | 17 | 1 |
| 87 BSR 24 | 1.0 | 2 | 5 | 10 | 2 | 77 | 20 |
| 87 BSR 25 | 1.6 | 9 | 43 | 15 | 2 | 65 | 2 |
| 87 BSR 26 | 2.3 | 20 | 38 | 14 | 2 | 59 | 22 |
| 87 BSR 27 | .6 | 2 | 7 | 12 | 3 | 48 | 1 |

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# Certificate of ASSAY

Company:HI TEC RESOURCE File:7-1318
Project:87 BC 031 Date:SEPT 1
Attention:P. SORBARA Type:PULP A

*We hereby certify* the following results for samples submitted.

| Sample Number | AU G/TONNE | AU OZ/TON |
|---|---|---|
| 87 BGR 11 | 190.00 | 5.542 |
| 87 BGR 20 | 6.80 | 0.198 |
| 87 BGR 24 | 4.50 | 0.131 |

| (VALUES IN PPM ) | AG | AS | CU | PB | SB | ZN | AU-PPB |
|---|---|---|---|---|---|---|---|
| 87 BBL 15 40M | .3 | 1 | 40 | 14 | 2 | 76 | 10 |
| 87 BGL 1 | 1.3 | 6 | 90 | 16 | 4 | 133 | 40 |
| 87 BGL 2 40M | 1.0 | 2 | 78 | 19 | 4 | 99 | 5 |
| 87 BGL 3 40M | .9 | 1 | 139 | 16 | 4 | 72 | 25 |
| 87 BGL 4 | 1.6 | 1 | 208 | 23 | 6 | 95 | 25 |
| 87 BGL 6 | 1.4 | 6 | 42 | 13 | 2 | 154 | 175 |
| 87 BGL 7 | 1.9 | 14 | 65 | 18 | 2 | 71 | 5 |
| 87 BKL 5 | 1.3 | 3 | 27 | 19 | 5 | 149 | 5 |
| 87BKL 36 | 4.5 | 36 | 13 | 24 | 9 | 154 | 5 |
| 87BKL 37 | 1.4 | 4 | 31 | 16 | 2 | 143 | 5 |
| 87BKL 38 | .9 | 5 | 57 | 25 | 3 | 128 | 5 |
| 87BKL 40 | 1.1 | 25 | 66 | 11 | 1 | 118 | 10 |
| 87 BML 1 | 1.3 | 6 | 85 | 44 | 1 | 116 | 15 |
| 87 BML 2 | .7 | 6 | 46 | 17 | 2 | 93 | 35 |
| 87 BML 3 | .7 | 1 | 54 | 14 | 2 | 100 | 30 |
| 87 BML 4 40M | .8 | 1 | 52 | 20 | 1 | 117 | 10 |
| 87 BML 7 40M | 1.4 | 2 | 46 | 16 | 1 | 288 | 5 |
| 87 BML 8 40M | 1.0 | 1 | 58 | 15 | 3 | 111 | 50 |
| 87 BML 11 | 1.3 | 3 | 96 | 21 | 2 | 161 | 45 |
| 87 BML 12 20M | .8 | 1 | 68 | 17 | 3 | 86 | 5 |
| 87 BM 13 | 1.1 | 1 | 44 | 15 | 2 | 154 | 10 |
| 87 BM 17 40M | .9 | 1 | 62 | 16 | 3 | 127 | 10 |
| 87 BM 18 | 1.0 | 8 | 14 | 11 | 1 | 122 | 25 |
| 87 BNL 4 40M | .5 | 1 | 32 | 16 | 2 | 50 | 5 |
| 87 BNL 10 | .8 | 7 | 66 | 20 | 3 | 109 | 85 |
| 87 BNL 13 | .9 | 4 | 176 | 21 | 3 | 106 | 25 |
| 87 BSL 1 | 1.0 | 1 | 75 | 19 | 3 | 122 | 55 |
| 87 BSL 2 | 1.6 | 20 | 43 | 24 | 1 | 130 | 40 |
| 87 BSL 3 | 1.9 | 15 | 47 | 27 | 1 | 139 | 5 |
| 87 BSL 4 | 1.7 | 18 | 38 | 26 | 4 | 108 | 15 |
| 87 BSL 6 | 1.8 | 12 | 42 | 12 | 1 | 209 | 5 |
| 87 BSL 7 | 1.6 | 11 | 51 | 14 | 1 | 64 | 10 |
| 87 BSL 10 | .2 | 1 | 42 | 17 | 3 | 108 | 15 |
| 87 BSL 11 | .6 | 9 | 82 | 26 | 3 | 122 | 5 |
| 87 BSL 16 | .9 | 8 | 106 | 31 | 3 | 118 | 25 |
| 87 BSL 17 | 1.1 | 5 | 94 | 27 | 3 | 93 | 115 |
| 87 BSL 20 | .8 | 6 | 82 | 14 | 3 | 100 | 85 |
| 87 BSL 21 | .6 | 1 | 46 | 11 | 3 | 100 | 5 |
| 87 BSL 28 | .7 | 3 | 81 | 19 | 3 | 83 | 65 |

| (VALUES IN PPM ) | AG | AS | CU | PB | SB | ZN | AU-PPB |
|---|---|---|---|---|---|---|---|
| 87 BBS 17 | 1.5 | 1 | 302 | 11 | 4 | 83 | 15 |
| 87 BNS 3 | 1.2 | 3 | 13 | 22 | 12 | 53 | 10 |

| (VALUES IN PPM ) | AG | AS | CU | PB | SB | ZN | AU-PPB |
|---|---|---|---|---|---|---|---|
| BA L0+00 0+20N | .7 | 18 | 104 | 22 | 1 | 134 | 50 |
| BA L0+00 0+40N | .7 | 24 | 111 | 27 | 1 | 112 | 20 |
| BA L0+00 0+60N | .4 | 1 | 116 | 22 | 2 | 114 | 10 |
| BA L0+00 0+80N | 1.3 | 27 | 97 | 30 | 7 | 161 | 5 |
| BA L0+00 1+00N | .6 | 1 | 84 | 19 | 1 | 117 | 5 |
| BA L0+00 1+20N | .7 | 5 | 107 | 21 | 3 | 107 | 530 |
| BA L0+00 1+60N | .5 | 10 | 31 | 14 | 2 | 55 | 5 |
| BA L0+00 1+80N | .6 | 3 | 119 | 23 | 3 | 88 | 100 |
| BA L0+00 2+00N | 1.0 | 2 | 174 | 22 | 1 | 110 | 10 |
| BA L0+00 2+20N | 1.2 | 2 | 296 | 23 | 1 | 109 | 140 |
| BA L0+00 2+40N | 1.4 | 29 | 94 | 19 | 4 | 119 | 5 |
| BA L0+40E 0+00S | 1.1 | 3 | 170 | 21 | 1 | 120 | 30 |
| BA L0+40E 0+20S | 1.1 | 11 | 95 | 23 | 2 | 163 | 5 |
| BA L0+40E 0+40S | .4 | 2 | 95 | 16 | 1 | 109 | 20 |
| BA L0+40E 0+60S | .3 | 1 | 102 | 16 | 1 | 103 | 5 |
| BA L0+40E 0+80S | 1.4 | 20 | 70 | 25 | 2 | 134 | 5 |
| BA L0+40E 1+00S | .7 | 2 | 111 | 21 | 1 | 118 | 5 |
| BA L0+40E 1+20S | 1.2 | 8 | 116 | 33 | 1 | 133 | 5 |
| BA L0+40E 1+40S | .7 | 1 | 100 | 25 | 2 | 108 | 5 |
| BA L0+40E 1+60S | .3 | 21 | 38 | 15 | 5 | 71 | 5 |
| BA L0+40E 1+80S | N/S | | | | | | |
| BA L0+40E 2+00S | .2 | 13 | 25 | 11 | 1 | 65 | 5 |
| BA L0+40E 2+20S | 1.3 | 2 | 92 | 27 | 2 | 125 | 5 |
| BA L0+40E 2+40S | .7 | 1 | 55 | 19 | 2 | 128 | 5 |
| BA L0+40E 0+20N | .9 | 6 | 158 | 18 | 1 | 118 | 80 |
| BA L0+40E 0+40N | 1.1 | 6 | 115 | 26 | 1 | 111 | 20 |
| BA L0+40E 0+60N | .8 | 5 | 163 | 26 | 2 | 117 | 30 |
| BA L0+40E 0+80N | .7 | 7 | 156 | 26 | 2 | 119 | 5 |
| BA L0+40E 1+00N | .6 | 1 | 89 | 18 | 3 | 108 | 5 |
| BA L0+40E 1+20N | .9 | 1 | 53 | 18 | 3 | 109 | 5 |
| BA L0+40E 1+40N | 1.3 | 1 | 62 | 25 | 3 | 124 | 5 |
| BA L0+40E 1+60N | .8 | 5 | 63 | 23 | 1 | 121 | 10 |
| BA L0+40W 0+20S | 2.4 | 27 | 113 | 30 | 3 | 226 | 5 |
| BA L0+40W 0+40S | 1.4 | 1 | 99 | 20 | 7 | 124 | 5 |
| BA L0+40W 0+60S | 1.9 | 45 | 137 | 14 | 4 | 127 | 20 |
| BA L0+40W 0+80S | 1.1 | 3 | 79 | 16 | 1 | 118 | 5 |
| BAL0+40W1+00S40W | 1.4 | 6 | 26 | 23 | 8 | 66 | 5 |
| BA L0+40W 1+20S | 1.0 | 1 | 24 | 17 | 4 | 73 | 5 |
| BA L0+40W 1+40S | .5 | 3 | 43 | 14 | 1 | 97 | 5 |
| BA L0+40W 1+60S | .7 | 3 | 31 | 12 | 5 | 81 | 5 |
| BA L0+40W 2+00S | .8 | 12 | 63 | 18 | 1 | 97 | 10 |
| BA L0+40W 2+20S | 1.5 | 13 | 25 | 18 | 6 | 127 | 5 |
| BA L0+40W 2+40S | 1.2 | 8 | 61 | 17 | 1 | 117 | 5 |
| BA L0+40W 2+60S | 1.3 | 16 | 52 | 25 | 3 | 112 | 5 |
| BA L0+40W 2+80S | 1.3 | 4 | 59 | 16 | 7 | 115 | 5 |
| BA L0+40W 3+00S | 1.4 | 10 | 95 | 20 | 6 | 142 | 10 |
| BA L0+40W 3+20S | .7 | 13 | 25 | 16 | 3 | 79 | 5 |
| BA L0+40W 3+40S | 1.5 | 8 | 25 | 23 | 6 | 115 | 5 |
| BA L0+40W 3+60S | .8 | 12 | 22 | 16 | 1 | 56 | 20 |
| BA L0+40W 3+80S | .9 | 16 | 53 | 5 | 6 | 89 | 5 |
| BA L0+40W 4+00S | 2.1 | 28 | 100 | 21 | 1 | 100 | 250 |
| BA L0+40W 0+00N | 6.3 | 9 | 767 | 24 | 1 | 120 | 3250 |
| BA L0+40W 0+20N | 1.2 | 23 | 111 | 21 | 1 | 131 | 40 |
| BA L0+40W 0+40N | 1.4 | 9 | 143 | 21 | 7 | 133 | 30 |
| BA L0+40W 0+60N | 1.3 | 13 | 100 | 14 | 1 | 100 | 10 |
| BA L0+40W 0+80N | .7 | 16 | 77 | 11 | 3 | 112 | 5 |
| BA L0+40W 1+00N | .5 | 12 | 60 | 16 | 1 | 97 | 10 |
| BA L0+40W 1+20N | .6 | 14 | 84 | 20 | 1 | 113 | 5 |
| BA L0+40W 1+40N | .4 | 9 | 94 | 19 | 1 | 105 | 5 |
| BA L0+40W 1+60N | .7 | 9 | 95 | 18 | 1 | 140 | 5 |

| (VALUES IN PPM ) | AG | AS | CU | PB | SB | ZN | AU-PPB |
|---|---|---|---|---|---|---|---|
| BA L0+40W 1+80N | .7 | 15 | 128 | 18 | 2 | 115 | 5 |
| BA L0+40W 2+00N | .7 | 20 | 143 | 21 | 4 | 116 | 5 |
| BA L0+40W 2+20N | N/S | | | | | | |
| BA L0+40W 2+40N | .6 | 10 | 91 | 12 | 2 | 85 | 10 |
| BA L0+80W 0+00S | .9 | 22 | 100 | 7 | 4 | 111 | 5 |
| BA L0+80W 0+20S | 1.0 | 19 | 89 | 19 | 4 | 117 | 5 |
| BA L0+80W 0+40S | .5 | 17 | 109 | 22 | 2 | 112 | 10 |
| BA L0+80W 0+60S | N/S | | | | | | |
| BA L0+80W 0+80S | 1.1 | 1 | 94 | 18 | 4 | 137 | 5 |
| BA L0+80W 1+00S | .7 | 13 | 53 | 13 | 4 | 89 | 5 |
| BA L0+80W 1+20S | 1.0 | 18 | 67 | 13 | 4 | 107 | 20 |
| BA L0+80W 1+40S | .6 | 17 | 68 | 12 | 4 | 100 | 5 |
| BA L0+80W 1+60S | .9 | 16 | 53 | 17 | 5 | 110 | 30 |
| BA L0+80W 1+80S | .8 | 1 | 67 | 18 | 4 | 98 | 5 |
| BA L0+80W 2+00S | 1.1 | 1 | 80 | 23 | 5 | 103 | 5 |
| BA L0+80W 2+20S | 2.5 | 11 | 14 | 12 | 5 | 84 | 10 |
| BA L0+80W 2+40S | .6 | 18 | 58 | 21 | 4 | 159 | 5 |
| BA L0+80W 2+60S | 2.2 | 9 | 33 | 12 | 7 | 109 | 5 |
| BA L0+80W 2+80S | .7 | 14 | 38 | 12 | 3 | 77 | 5 |
| BA L0+80W 3+00S | 1.2 | 7 | 24 | 17 | 7 | 104 | 5 |
| BA L0+80W 3+20S | 1.5 | 9 | 10 | 9 | 5 | 86 | 10 |
| BA L0+80W 3+40S | 2.0 | 11 | 10 | 6 | 6 | 128 | 5 |
| BA L0+80W 3+60S | .7 | 1 | 49 | 18 | 3 | 104 | 5 |
| BA L0+80W 3+80S | 1.2 | 21 | 96 | 17 | 4 | 117 | 10 |
| BA L0+80W 4+00S | 1.0 | 7 | 21 | 10 | 6 | 88 | 5 |
| BA L0+80W 0+20N | .4 | 16 | 63 | 16 | 3 | 96 | 5 |
| BA L0+80W 0+40N | 1.0 | 15 | 50 | 13 | 6 | 111 | 5 |
| BA L0+80W 0+60N | .9 | 17 | 48 | 20 | 1 | 93 | 15 |
| BA L0+80W 0+80N | .9 | 17 | 63 | 13 | 5 | 100 | 10 |
| BA L0+80W 1+00N | 1.1 | 19 | 104 | 19 | 4 | 107 | 20 |
| BA L0+80W 1+20N | 1.6 | 10 | 49 | 21 | 7 | 117 | 5 |
| BA L0+80W 1+40N | 1.7 | 1 | 21 | 27 | 7 | 96 | 5 |
| BA L0+80W 1+60N | 2.2 | 12 | 18 | 10 | 1 | 94 | 10 |
| BA L0+80W 1+80N | .4 | 9 | 35 | 21 | 4 | 80 | 10 |
| BA L0+80W 2+00N | .8 | 3 | 39 | 21 | 3 | 98 | 5 |
| BA L0+80W 2+20N | .9 | 13 | 72 | 16 | 1 | 113 | 10 |
| BA L0+80W 2+40N | 1.6 | 8 | 16 | 19 | 6 | 67 | 5 |
| BA L1+20W 0+00S | 1.4 | 2 | 90 | 21 | 6 | 122 | 20 |
| BA L1+20W 0+20S | 1.3 | 1 | 94 | 20 | 7 | 132 | 5 |
| BA L1+20W 0+40S | .8 | 5 | 75 | 18 | 2 | 120 | 5 |
| BA L1+20W 0+60S | .5 | 14 | 76 | 16 | 7 | 114 | 10 |
| BA L1+20W 0+80S | 1.1 | 4 | 82 | 21 | 2 | 119 | 5 |
| BA L1+20W 1+00S | 1.5 | 17 | 42 | 18 | 5 | 96 | 5 |
| BA L1+20W 1+20S | 3.7 | 20 | 10 | 31 | 7 | 168 | 5 |
| BA L1+20W 1+40S | 2.0 | 14 | 42 | 26 | 4 | 133 | 5 |
| BA L1+20W 1+60S | 1.9 | 17 | 33 | 21 | 5 | 108 | 5 |
| BA L1+20W 1+80S | .6 | 6 | 32 | 18 | 2 | 78 | 5 |
| BA L1+20W 2+00S | .8 | 1 | 97 | 16 | 5 | 107 | 10 |
| BA L1+20W 2+20S | 1.3 | 6 | 39 | 20 | 3 | 166 | 5 |
| BA L1+20W 2+40S | .5 | 5 | 18 | 19 | 3 | 59 | 5 |
| BA L1+20W 2+60S | 1.7 | 8 | 77 | 23 | 3 | 128 | 5 |
| BA L1+20W 2+80S | 1.0 | 6 | 37 | 29 | 6 | 112 | 5 |
| BA L1+20W 3+00S | .7 | 1 | 32 | 19 | 5 | 88 | 5 |
| BA L1+20W 3+20S | 1.7 | 26 | 13 | 26 | 10 | 126 | 10 |
| BA L1+20W 3+40S | 1.1 | 9 | 13 | 34 | 9 | 105 | 5 |
| BA L1+20W 3+60S | 2.4 | 23 | 15 | 26 | 7 | 132 | 10 |
| BA L1+20W 3+80S | .7 | 1 | 68 | 10 | 4 | 88 | 5 |
| BA L1+20W 4+00S | 1.2 | 21 | 29 | 18 | 5 | 69 | 5 |
| BA L1+20W 0+20N | .9 | 9 | 82 | 17 | 6 | 160 | 5 |
| BA L1+20W 0+40N | 1.3 | 29 | 57 | 23 | 7 | 110 | 5 |

| (VALUES IN PPM ) | AG | AS | CU | PB | SB | ZN | AU-PPB |
|---|---|---|---|---|---|---|---|
| BA L1+20W 0+60N | .7 | 11 | 24 | 22 | 4 | 79 | 10 |
| BA L1+20W 0+80N | .6 | 15 | 72 | 14 | 3 | 124 | 5 |
| BA L1+20W 1+00N | .5 | 19 | 73 | 15 | 3 | 93 | 5 |
| BA L1+20W 1+20N | 1.4 | 15 | 34 | 12 | 4 | 82 | 5 |
| BA L1+20W 1+40N | .7 | 19 | 88 | 15 | 2 | 111 | 5 |
| BA L1+20W 1+60N | .8 | 20 | 69 | 22 | 4 | 127 | 5 |
| BA L1+20W 1+80N | .3 | 14 | 57 | 19 | 3 | 93 | 5 |
| BA L1+20W 2+00N | 1.2 | 23 | 43 | 12 | 6 | 128 | 5 |
| BA L1+20W 2+20N | 1.3 | 1 | 62 | 18 | 7 | 138 | 5 |
| BA L1+20W 2+40N | 1.3 | 20 | 37 | 14 | 5 | 106 | 5 |

| (VALUES IN PPM ) | AG | AS | CU | PB | SB | ZN | AU-PPB |
|---|---|---|---|---|---|---|---|
| BA L1+00E 0+00S | 1.4 | 1 | 215 | 16 | 49 | 133 | 5 |
| BA L1+00E 0+20S | .7 | 5 | 144 | 22 | 12 | 97 | 5 |
| BA L1+00E 0+40S | .6 | 3 | 128 | 16 | 3 | 137 | 5 |
| BA L1+00E 0+60S | 1.1 | 13 | 150 | 22 | 2 | 130 | 5 |
| BA L1+00E 0+80S | .3 | 11 | 81 | 21 | 1 | 144 | 5 |
| BA L1+00E 1+00S | 1.0 | 8 | 118 | 17 | 2 | 121 | 10 |
| BA L1+00E 1+20S | 1.5 | 13 | 115 | 20 | 4 | 117 | 20 |
| BA L1+00E 1+40S | .4 | 12 | 84 | 10 | 1 | 91 | 5 |
| BA L1+00E 1+60S | 1.5 | 10 | 67 | 8 | 1 | 142 | 5 |
| BA L0+80E 0+00S | 1.5 | 31 | 485 | 22 | 6 | 138 | 40 |
| BA L0+80E 0+20S | 1.5 | 34 | 164 | 20 | 1 | 143 | 10 |
| BA L0+80E 0+40S | 1.0 | 3 | 144 | 19 | 1 | 146 | 20 |
| BA L0+80E 0+60S | 1.2 | 25 | 158 | 24 | 1 | 139 | 5 |
| BA L0+80E 0+80S | 1.1 | 1 | 118 | 27 | 1 | 129 | 5 |
| BA L0+80E 1+00S | 1.4 | 30 | 111 | 25 | 7 | 142 | 10 |
| BA L0+80E 1+20S | 1.1 | 22 | 130 | 23 | 5 | 131 | 5 |
| BA L0+80E 1+40S | .6 | 1 | 112 | 19 | 6 | 108 | 5 |
| BA L0+80E 1+60S | .2 | 22 | 53 | 13 | 5 | 94 | 5 |
| BA L0+80E 1+80S | .7 | 6 | 98 | 26 | 2 | 192 | 5 |
| BA L0+80E 2+00S | .9 | 16 | 97 | 19 | 1 | 137 | 5 |
| BA L0+80E 2+20S | .7 | 19 | 46 | 15 | 1 | 111 | 10 |
| BA L0+80E 2+40S | 1.8 | 30 | 25 | 27 | 9 | 99 | 5 |
| BA L0+80E 2+60S | 1.5 | 1 | 109 | 18 | 7 | 123 | 5 |
| BA L0+80E 2+80S | N/S | | | | | | |
| BA L0+80E 3+00S | 1.0 | 25 | 68 | 23 | 2 | 127 | 5 |
| BA L0+80E 3+20S | 1.1 | 26 | 74 | 21 | 2 | 114 | 10 |
| BA L0+80E 3+40S | 1.0 | 15 | 66 | 30 | 7 | 107 | 5 |
| BA L0+80E 3+60S | .7 | 1 | 27 | 21 | 3 | 85 | 5 |
| BA L0+80E 3+80S | 2.3 | 32 | 75 | 28 | 1 | 127 | 5 |
| BA L0+80E 4+00S | 2.1 | 2 | 79 | 23 | 2 | 118 | 5 |
| BA L0+60E 0+00N | .8 | 24 | 148 | 22 | 5 | 107 | 20 |
| BA L0+60E 0+20N | N/S | | | | | | |
| BA L0+60E 0+40N | .9 | 27 | 118 | 15 | 5 | 118 | 30 |
| BA L0+60E 0+60N | N/S | | | | | | |
| BA L0+60E 0+80N | .3 | 26 | 126 | 24 | 2 | 133 | 5 |
| BA L0+60E 1+00N | N/S | | | | | | |
| BA L0+60E 1+20N | .2 | 24 | 115 | 12 | 6 | 123 | 5 |
| BA L0+60E 1+40N | N/S | | | | | | |
| BA L0+60E 1+60N | 1.9 | 19 | 163 | 25 | 6 | 159 | 20 |
| BA L0+00 0+00S | .6 | 10 | 111 | 20 | 7 | 117 | 5 |
| BA L0+00 0+20S | 1.9 | 1 | 214 | 19 | 8 | 146 | 5 |
| BA L0+00 0+40S | 1.9 | 5 | 176 | 20 | 8 | 151 | 5 |
| BA L0+00 0+60S | .9 | 1 | 113 | 16 | 1 | 125 | 5 |
| BA L0+00 0+80S | 1.3 | 21 | 142 | 19 | 1 | 149 | 10 |
| BA L0+00 1+00S | 1.5 | 12 | 52 | 21 | 7 | 155 | 5 |
| BA L0+00 1+20S | .5 | 1 | 85 | 15 | 1 | 134 | 5 |
| BA L0+00 1+40S | .2 | 1 | 105 | 13 | 59 | 118 | 5 |
| BA L0+00 1+60S | .9 | 1 | 93 | 17 | 1 | 112 | 5 |
| BA L0+00 1+80S | 1.5 | 10 | 56 | 19 | 10 | 136 | 10 |
| BA L0+00 2+00S | .9 | 7 | 30 | 16 | 6 | 108 | 5 |
| BA L0+00 2+20S | 1.0 | 17 | 66 | 16 | 4 | 123 | 5 |
| BA L0+00 2+40S | 1.7 | 49 | 121 | 15 | 2 | 138 | 5 |
| BA L0+00 2+60S | 2.0 | 9 | 44 | 25 | 7 | 139 | 5 |
| BA L0+00 2+80S | 1.5 | 1 | 156 | 16 | 1 | 120 | 5 |
| BA L0+00 3+00S | .9 | 9 | 51 | 18 | 5 | 117 | 5 |
| BA L0+00 3+20S | 1.7 | 5 | 63 | 19 | 4 | 127 | 5 |
| BA L0+00 3+40S | 2.4 | 41 | 98 | 22 | 1 | 143 | 5 |
| BA L0+00 3+60S | 1.2 | 28 | 97 | 27 | 4 | 130 | 10 |
| BA L0+00 3+80S | .8 | 21 | 92 | 15 | 6 | 93 | 5 |
| BA L0+00 4+00S | 2.0 | 48 | 60 | 30 | 4 | 125 | 5 |

# APPENDIX V-A

## Statistical Analysis of Data for Soil Geochem Survey

# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## CORRELATION COEFFICIENTS

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1594

DATE:NOV 9/87
SAMPLE TYPE:SOIL
ANALYSIS TYPE:ICP

THE TABLE BELOW REPRESENTS THE PEARSON CORRELATION MATRIX, SHOWING THE INTER-ELEMENT CORRELATION COEFFICIENTS. THOSE VALUES THAT EXCEED THEIR CRITICAL VALUE FOR .01 LEVEL OF SIGNIFICANCE ARE SHOWN IN DARKER PRINT AND UNDERLINED.

| | AG | AS | CU | PB | SB | ZN | AU |
|---|---|---|---|---|---|---|---|
| AG | 1.000 | **.210** | **.377** | **.268** | .031 | **.310** | **.572** |
| AS | | 1.000 | .032 | .096 | -.093 | .173 | -.024 |
| CU | | | 1.000 | .169 | .008 | **.285** | **.695** |
| PB | | | | 1.000 | -.057 | **.384** | .079 |
| SB | | | | | 1.000 | .042 | -.052 |
| ZN | | | | | | 1.000 | .005 |
| AU | | | | | | | 1.000 |

# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## STATISTICAL SUMMARY ON AG

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1594

DATE:NOV 9/87
SAMPLE TYPE:SOIL
ANALYSIS TYPE:ICP

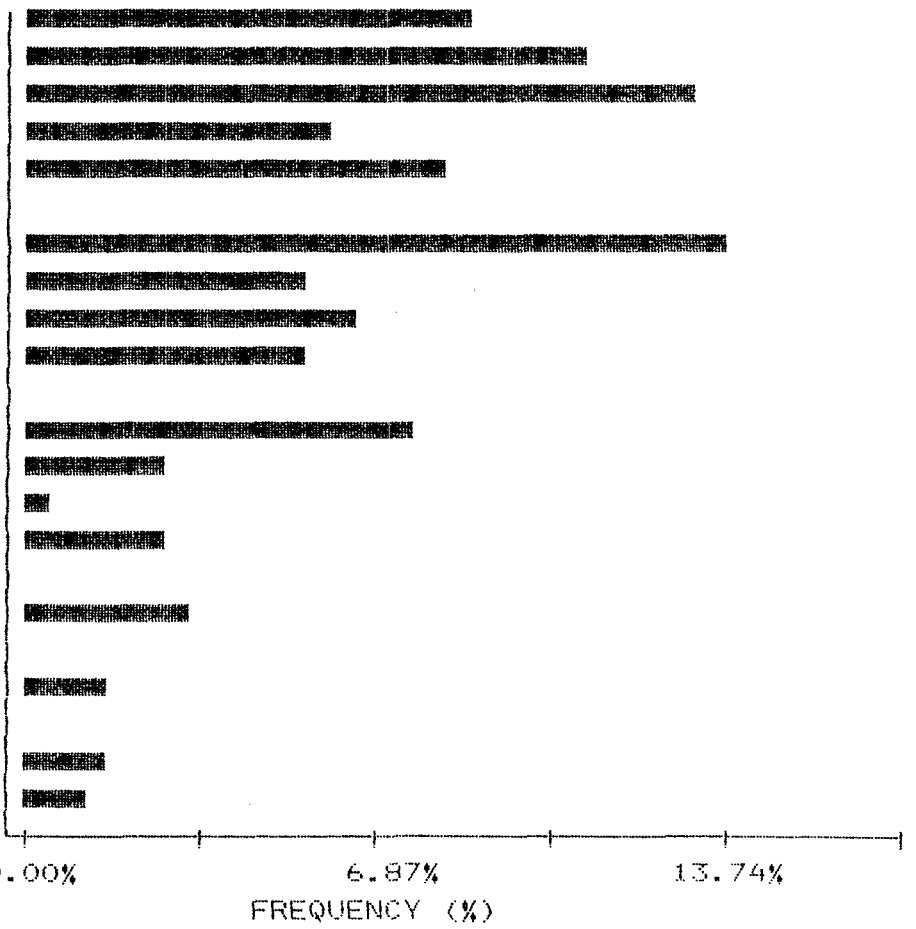
| | |
|---|---|
| NUMBER OF SAMPLES: | 182 |
| MAXIMUM VALUE: | 6.30 PPM |
| MINIMUM VALUE: | .20 PPM |
| MEAN: | 1.11 PPM |
| STD. DEVIATION: | .67 PPM |
| COEFF. OF VARIATION: | .60 |

5 HIGHEST AG VALUES:

| | |
|---|---|
| BA L0+40W 0+00N | 6.3 PPM |
| BA L1+20W 1+20S | 3.7 PPM |
| BA L0+80W 2+20S | 2.5 PPM |
| BA L0+00 3+40S | 2.4 PPM |
| BA L0+40W 0+20S | 2.4 PPM |

HISTOGRAM FOR AG CLASS INTERVAL = .1

| MID CLASS PPM | CLASS % |
|---|---|
| < .50 | 8.79 |
| .55 | 10.99 |
| .65 | 13.19 |
| .75 | 6.04 |
| .85 | 8.24 |
| .95 | 0.00 |
| 1.05 | 13.74 |
| 1.15 | 5.49 |
| 1.25 | 6.59 |
| 1.35 | 5.49 |
| 1.45 | 0.00 |
| 1.55 | 7.69 |
| 1.65 | 2.75 |
| 1.75 | .55 |
| 1.85 | 2.75 |
| 1.95 | 0.00 |
| 2.05 | 3.30 |
| 2.15 | 0.00 |
| 2.25 | 1.65 |
| 2.35 | 0.00 |
| 2.45 | 1.65 |
| > 2.50 | 1.32 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

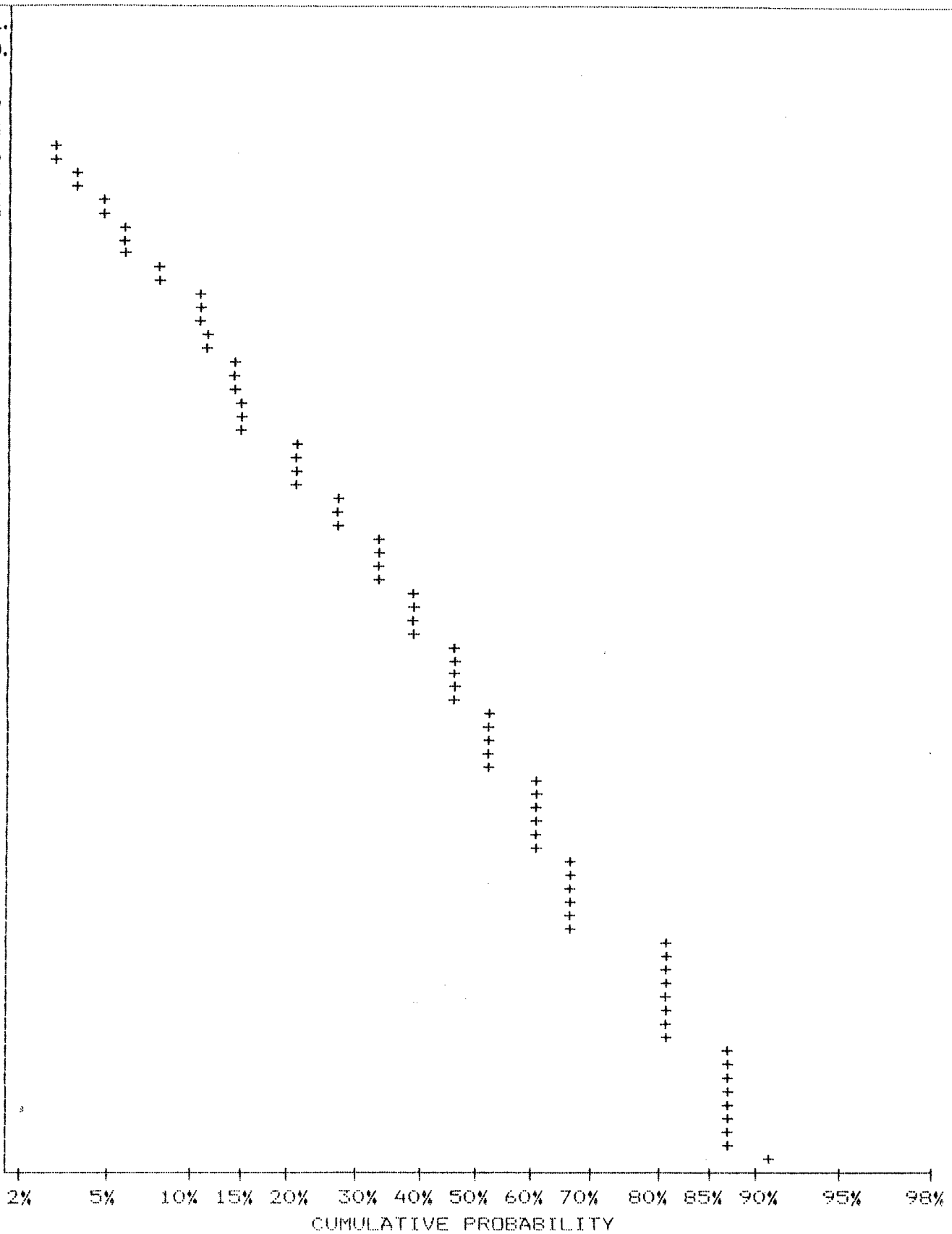
TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## CUMMULATIVE PROBABILITY PLOT ON A6

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1594

DATE:NOV 9/87
SAMPLE TYPE:SOIL
ANALYSIS TYPE:ICP

| UPPER LIMIT ( PPM) | CUMMUL. FREQ. (%) |
|---|---|
| 2.52 | 1.10 |
| 2.42 | 1.65 |
| 2.32 | 3.30 |
| 2.22 | 3.85 |
| 2.13 | 4.95 |
| 2.05 | 6.04 |
| 1.96 | 8.24 |
| 1.88 | 10.99 |
| 1.81 | 10.99 |
| 1.73 | 11.54 |
| 1.66 | 14.29 |
| 1.60 | 15.38 |
| 1.53 | 15.38 |
| 1.47 | 21.98 |
| 1.41 | 21.98 |
| 1.35 | 27.47 |
| 1.30 | 34.07 |
| 1.24 | 34.07 |
| 1.19 | 39.56 |
| 1.15 | 39.56 |
| 1.10 | 46.70 |
| 1.05 | 46.70 |
| 1.01 | 46.70 |
| .97 | 53.30 |
| .93 | 53.30 |
| .89 | 61.54 |
| .86 | 61.54 |
| .82 | 61.54 |
| .79 | 67.58 |
| .76 | 67.58 |
| .73 | 67.58 |
| .70 | 80.77 |
| .67 | 80.77 |
| .64 | 80.77 |
| .61 | 80.77 |
| .59 | 87.36 |
| .57 | 87.36 |
| .54 | 87.36 |
| .52 | 87.36 |
| .50 | 91.21 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## STATISTICAL SUMMARY ON AS

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1594

DATE:NOV 9/87
SAMPLE TYPE:SOIL
ANALYSIS TYPE:ICP

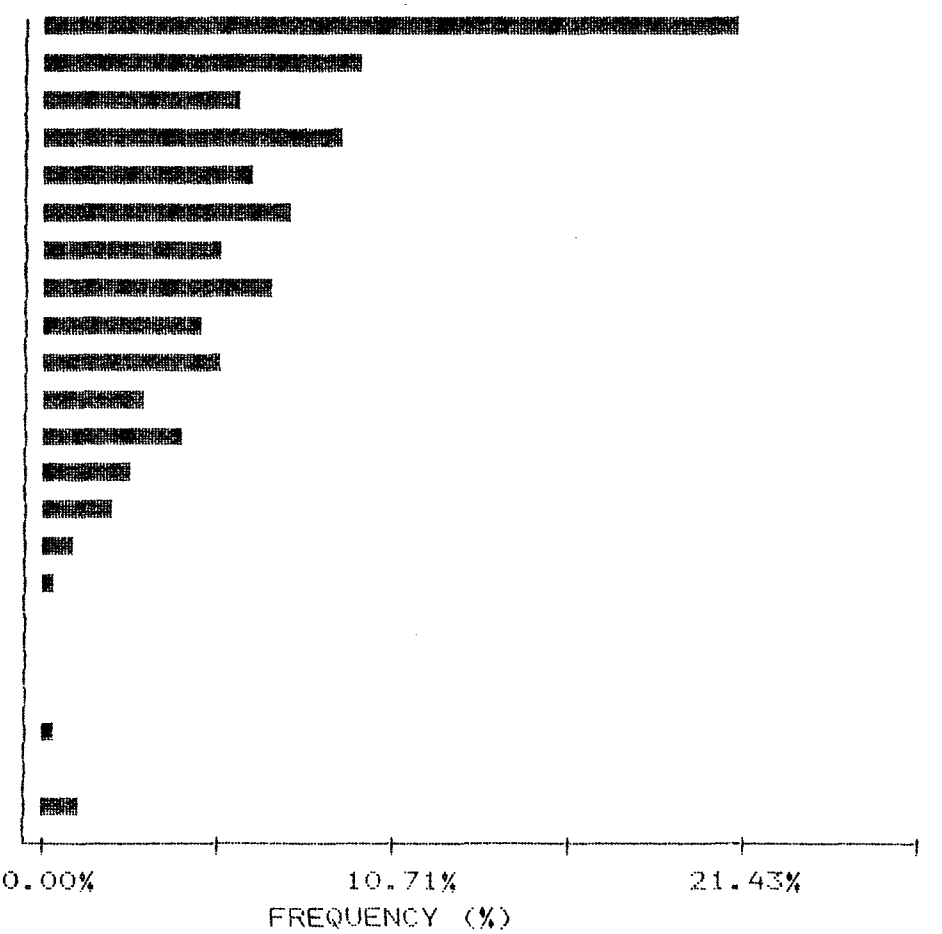
| | |
|---|---|
| NUMBER OF SAMPLES: | 182 |
| MAXIMUM VALUE: | 49.00 PPM |
| MINIMUM VALUE: | 0.00 PPM |
| MEAN: | 12.18 PPM |
| STD. DEVIATION: | 10.09 PPM |
| COEFF. OF VARIATION: | .83 |

5 HIGHEST AS VALUES:

| | |
|---|---|
| BA L0+00 2+40S | 49 PPM |
| BA L0+00 4+00S | 48 PPM |
| BA L0+40W 0+60S | 45 PPM |
| BA L0+00 3+40S | 41 PPM |
| BA L0+80E 0+20S | 34 PPM |

HISTOGRAM FOR AS CLASS INTERVAL = 2.1

| | MID CLASS PPM | CLASS % |
|---|---|---|
| < | 3.00 | 21.43 |
| | 4.05 | 9.89 |
| | 6.15 | 6.04 |
| | 8.25 | 9.34 |
| | 10.35 | 6.59 |
| | 12.45 | 7.69 |
| | 14.55 | 5.49 |
| | 16.65 | 7.14 |
| | 18.75 | 4.95 |
| | 20.85 | 5.49 |
| | 22.95 | 3.30 |
| | 25.05 | 4.40 |
| | 27.15 | 2.75 |
| | 29.25 | 2.20 |
| | 31.35 | 1.10 |
| | 33.45 | .55 |
| | 35.55 | 0.00 |
| | 37.65 | 0.00 |
| | 39.75 | 0.00 |
| | 41.85 | .55 |
| | 43.95 | 0.00 |
| > | 45.00 | 1.32 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

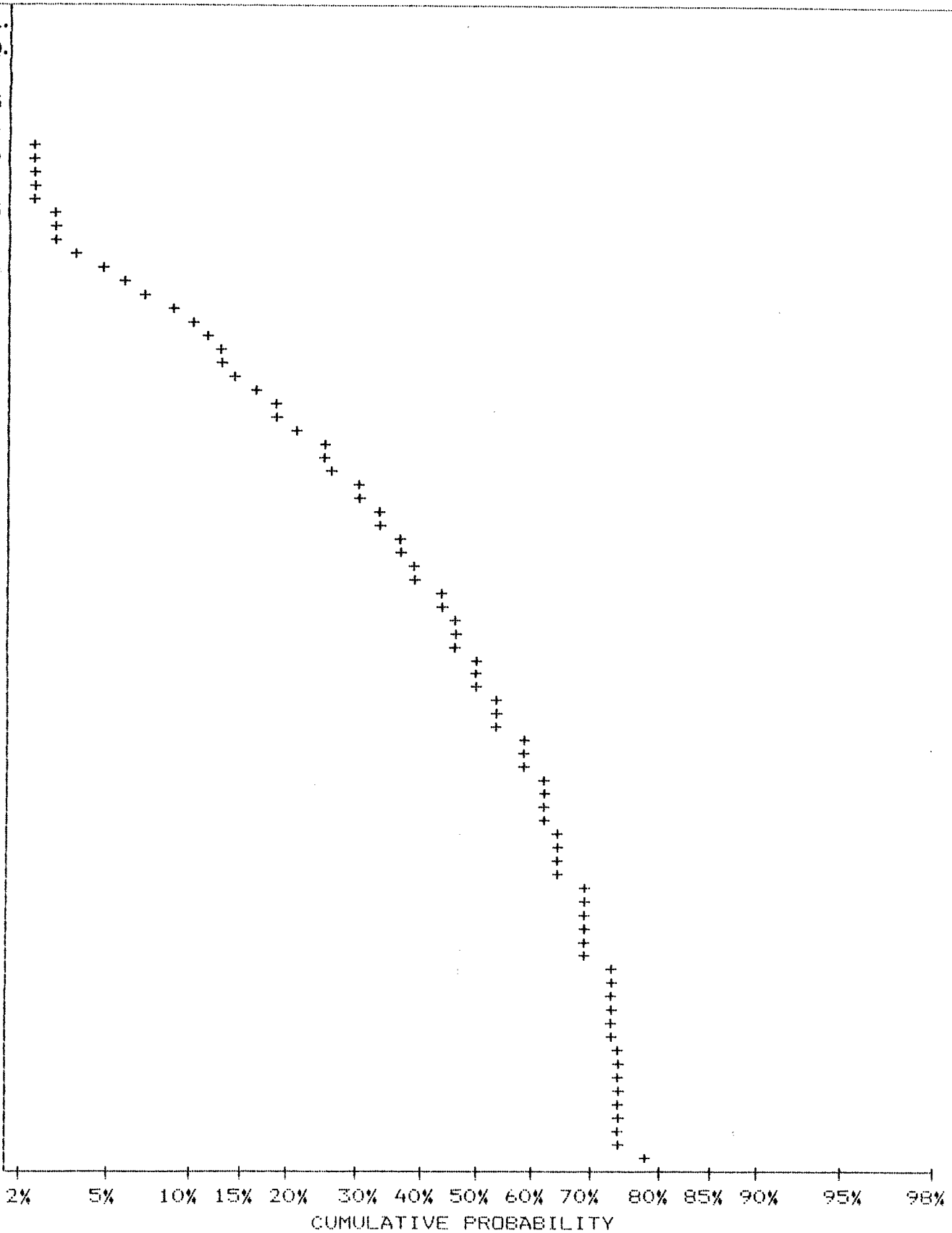
TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## CUMMULATIVE PROBABILITY PLOT ON AS

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1594

DATE:NOV 9/87
SAMPLE TYPE:SOIL
ANALYSIS TYPE:ICP

| UPPER LIMIT ( PPM) | CUMMUL. FREQ. (%) |
|---|---|
| 44.37 | 1.65 |
| 41.41 | 1.65 |
| 38.65 | 2.20 |
| 36.07 | 2.20 |
| 33.66 | 2.75 |
| 31.41 | 3.30 |
| 29.32 | 4.95 |
| 27.36 | 7.14 |
| 25.53 | 10.44 |
| 23.83 | 13.19 |
| 22.24 | 14.84 |
| 20.75 | 19.23 |
| 19.37 | 21.98 |
| 18.08 | 25.27 |
| 16.87 | 30.77 |
| 15.74 | 34.07 |
| 14.69 | 36.81 |
| 13.71 | 39.56 |
| 12.80 | 43.96 |
| 11.94 | 47.25 |
| 11.14 | 47.25 |
| 10.40 | 50.00 |
| 9.71 | 53.85 |
| 9.06 | 53.85 |
| 8.45 | 59.89 |
| 7.89 | 63.19 |
| 7.36 | 63.19 |
| 6.87 | 65.38 |
| 6.41 | 65.38 |
| 5.98 | 69.23 |
| 5.59 | 69.23 |
| 5.21 | 69.23 |
| 4.87 | 73.63 |
| 4.54 | 73.63 |
| 4.24 | 73.63 |
| 3.95 | 74.73 |
| 3.69 | 74.73 |
| 3.44 | 74.73 |
| 3.22 | 74.73 |
| 3.00 | 78.57 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## STATISTICAL SUMMARY ON CU

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1594

DATE:NOV 9/87
SAMPLE TYPE:SOIL
ANALYSIS TYPE:ICP

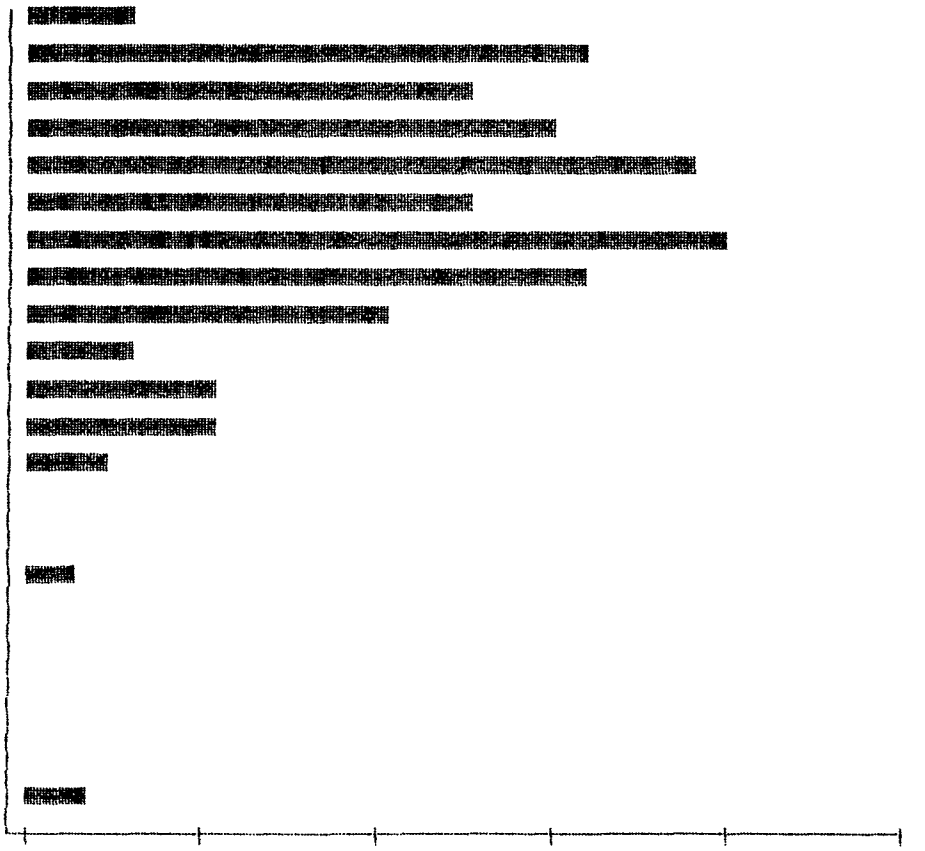
| | |
|---|---|
| NUMBER OF SAMPLES: | 182 |
| MAXIMUM VALUE: | 767.00 PPM |
| MINIMUM VALUE: | 10.00 PPM |
| MEAN: | 86.51 PPM |
| STD. DEVIATION: | 74.39 PPM |
| COEFF. OF VARIATION: | .86 |

5 HIGHEST CU VALUES:

| | |
|---|---|
| BA L0+40W 0+00N | 767 PPM |
| BA L0+80E 0+00S | 485 PPM |
| BA L0+00 2+20N | 296 PPM |
| BA L1+00E 0+00S | 215 PPM |
| BA L0+00 0+20S | 214 PPM |

HISTOGRAM FOR CU CLASS INTERVAL = 14.15

| MID CLASS PPM | CLASS % |
|---|---|
| < 13.00 | 2.20 |
| 20.08 | 10.99 |
| 34.23 | 8.79 |
| 48.38 | 10.44 |
| 62.53 | 13.19 |
| 76.68 | 8.79 |
| 90.83 | 13.74 |
| 104.98 | 10.99 |
| 119.13 | 7.14 |
| 133.28 | 2.20 |
| 147.43 | 3.85 |
| 161.58 | 3.85 |
| 175.73 | 1.65 |
| 189.88 | 0.00 |
| 204.03 | 0.00 |
| 218.18 | 1.10 |
| 232.33 | 0.00 |
| 246.48 | 0.00 |
| 260.63 | 0.00 |
| 274.78 | 0.00 |
| 288.93 | 0.00 |
| > 296.00 | 1.32 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

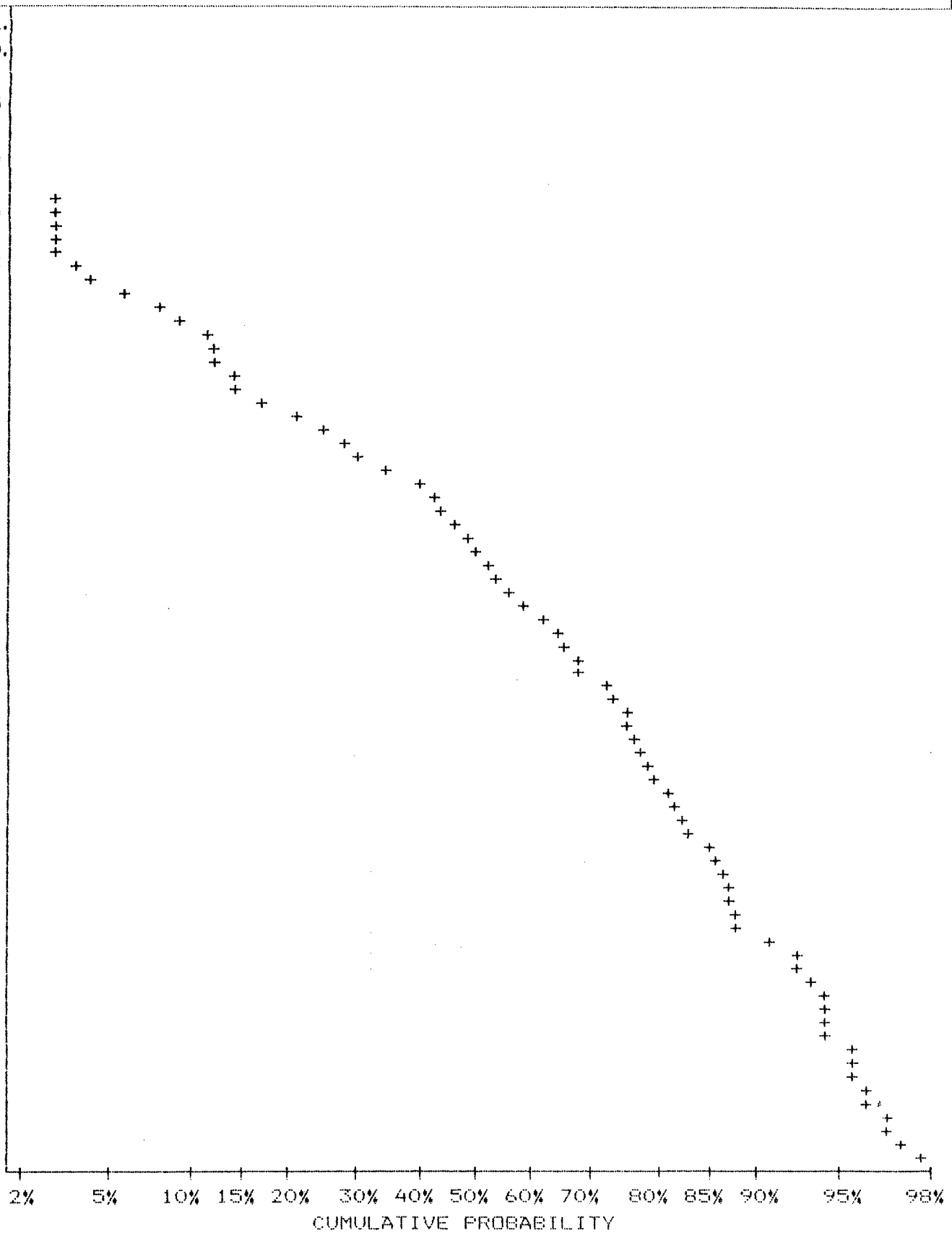
TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## CUMMULATIVE PROBABILITY PLOT ON CU

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1594

DATE:NOV 9/87
SAMPLE TYPE:SOIL
ANALYSIS TYPE:ICP

| UPPER LIMIT ( PPM) | CUMMUL. FREQ. (%) |
|---|---|
| 275.39 | 1.65 |
| 254.64 | 1.65 |
| 235.47 | 1.65 |
| 217.74 | 1.65 |
| 201.34 | 2.75 |
| 186.19 | 2.75 |
| 172.16 | 3.85 |
| 159.20 | 6.04 |
| 147.21 | 9.34 |
| 136.12 | 12.64 |
| 125.88 | 14.84 |
| 116.40 | 17.58 |
| 107.63 | 25.82 |
| 99.53 | 30.77 |
| 92.03 | 40.11 |
| 85.10 | 43.96 |
| 78.69 | 49.45 |
| 72.77 | 53.30 |
| 67.29 | 57.14 |
| 62.22 | 62.64 |
| 57.54 | 66.48 |
| 53.21 | 68.68 |
| 49.19 | 73.63 |
| 45.49 | 75.82 |
| 42.07 | 77.47 |
| 38.90 | 79.67 |
| 35.97 | 81.87 |
| 33.27 | 82.97 |
| 30.76 | 86.26 |
| 28.44 | 87.36 |
| 26.30 | 87.91 |
| 24.32 | 91.21 |
| 22.49 | 92.86 |
| 20.80 | 94.51 |
| 19.23 | 94.51 |
| 17.78 | 95.60 |
| 16.45 | 95.60 |
| 15.20 | 96.15 |
| 14.05 | 96.70 |
| 13.00 | 97.80 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## STATISTICAL SUMMARY ON PB

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1594

DATE:NOV 9/87
SAMPLE TYPE:SOIL
ANALYSIS TYPE:ICP

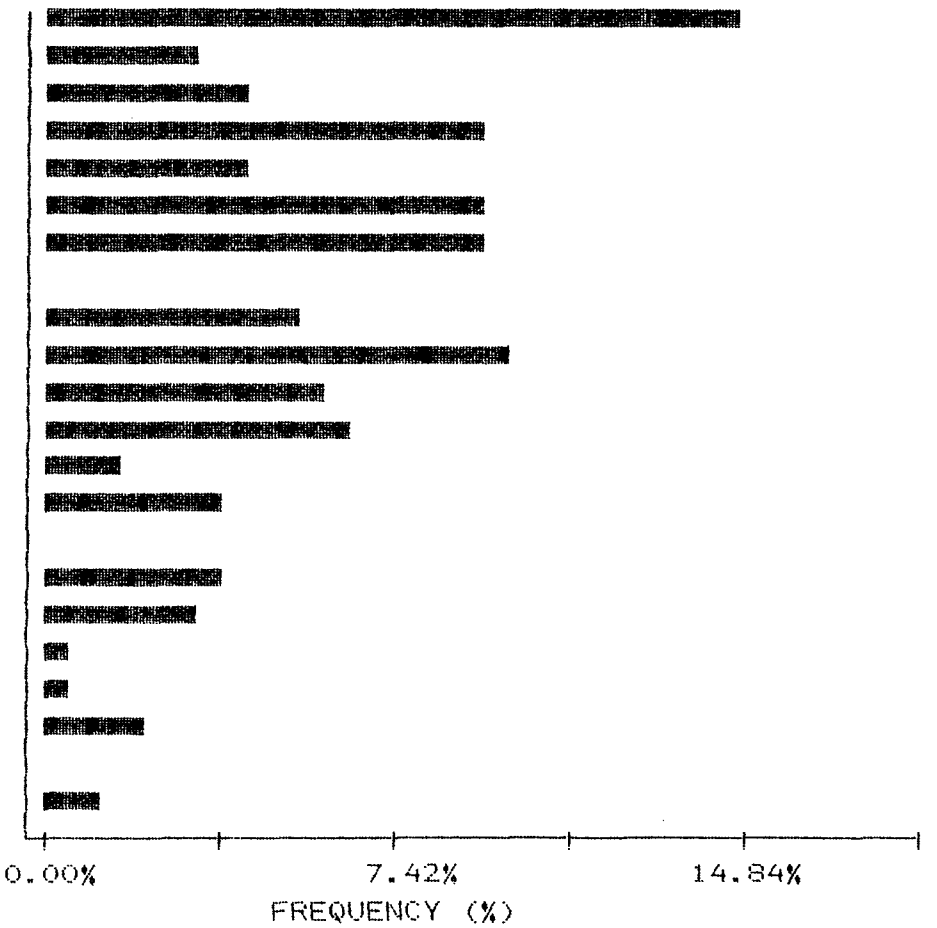
| | |
|---|---|
| NUMBER OF SAMPLES: | 182 |
| MAXIMUM VALUE: | 34.00 PPM |
| MINIMUM VALUE: | 5.00 PPM |
| MEAN: | 19.15 PPM |
| STD. DEVIATION: | 5.24 PPM |
| COEFF. OF VARIATION: | .27 |

5 HIGHEST PB VALUES:

| | |
|---|---|
| BA L1+20W 3+40S | 34 PPM |
| BA L0+40E 1+20S | 33 PPM |
| BA L1+20W 1+20S | 31 PPM |
| BA L0+80E 3+40S | 30 PPM |
| BA L0+00 4+00S | 30 PPM |

HISTOGRAM FOR PB CLASS INTERVAL = .85

| MID CLASS PPM | CLASS % |
|---|---|
| < 14.00 | 14.84 |
| 14.43 | 3.30 |
| 15.28 | 4.40 |
| 16.13 | 9.34 |
| 16.98 | 4.40 |
| 17.83 | 9.34 |
| 18.68 | 9.34 |
| 19.53 | 0.00 |
| 20.38 | 5.49 |
| 21.23 | 9.89 |
| 22.08 | 6.04 |
| 22.93 | 6.59 |
| 23.78 | 1.65 |
| 24.63 | 3.85 |
| 25.48 | 0.00 |
| 26.33 | 3.85 |
| 27.18 | 3.30 |
| 28.03 | .55 |
| 28.88 | .55 |
| 29.73 | 2.20 |
| 30.58 | 0.00 |
| > 31.00 | 1.32 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

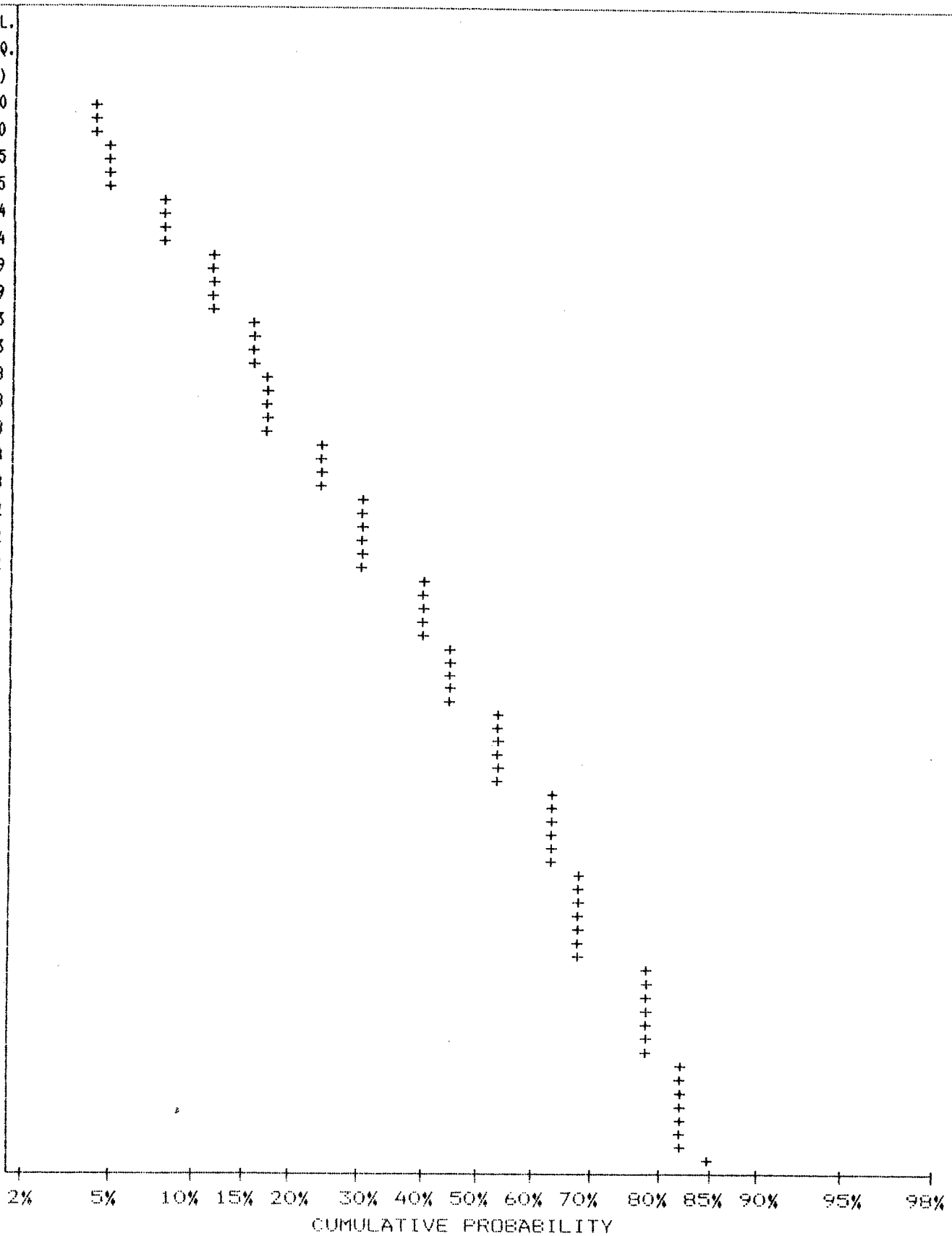
TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## CUMMULATIVE PROBABILITY PLOT ON PB

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1594

DATE:NOV 9/87
SAMPLE TYPE:SOIL
ANALYSIS TYPE:ICP

| UPPER LIMIT ( PPM) | CUMMUL. FREQ. (%) |
|---|---|
| 28.71 | 4.40 |
| 28.20 | 4.40 |
| 27.68 | 4.95 |
| 27.17 | 4.95 |
| 26.67 | 8.24 |
| 26.19 | 8.24 |
| 25.72 | 12.09 |
| 25.24 | 12.09 |
| 24.78 | 15.93 |
| 24.33 | 15.93 |
| 23.88 | 17.58 |
| 23.45 | 17.58 |
| 23.02 | 17.58 |
| 22.60 | 24.18 |
| 22.19 | 24.18 |
| 21.78 | 30.22 |
| 21.39 | 30.22 |
| 21.00 | 30.22 |
| 20.61 | 40.11 |
| 20.23 | 40.11 |
| 19.87 | 45.60 |
| 19.50 | 45.60 |
| 19.15 | 45.60 |
| 18.80 | 54.95 |
| 18.45 | 54.95 |
| 18.12 | 54.95 |
| 17.79 | 64.29 |
| 17.46 | 64.29 |
| 17.15 | 64.29 |
| 16.83 | 68.68 |
| 16.52 | 68.68 |
| 16.23 | 68.68 |
| 15.93 | 78.02 |
| 15.64 | 78.02 |
| 15.34 | 78.02 |
| 15.06 | 78.02 |
| 14.80 | 82.42 |
| 14.53 | 82.42 |
| 14.27 | 82.42 |
| 14.00 | 85.16 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## STATISTICAL SUMMARY ON SB

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1594

DATE:NOV 9/87
SAMPLE TYPE:SOIL
ANALYSIS TYPE:ICP

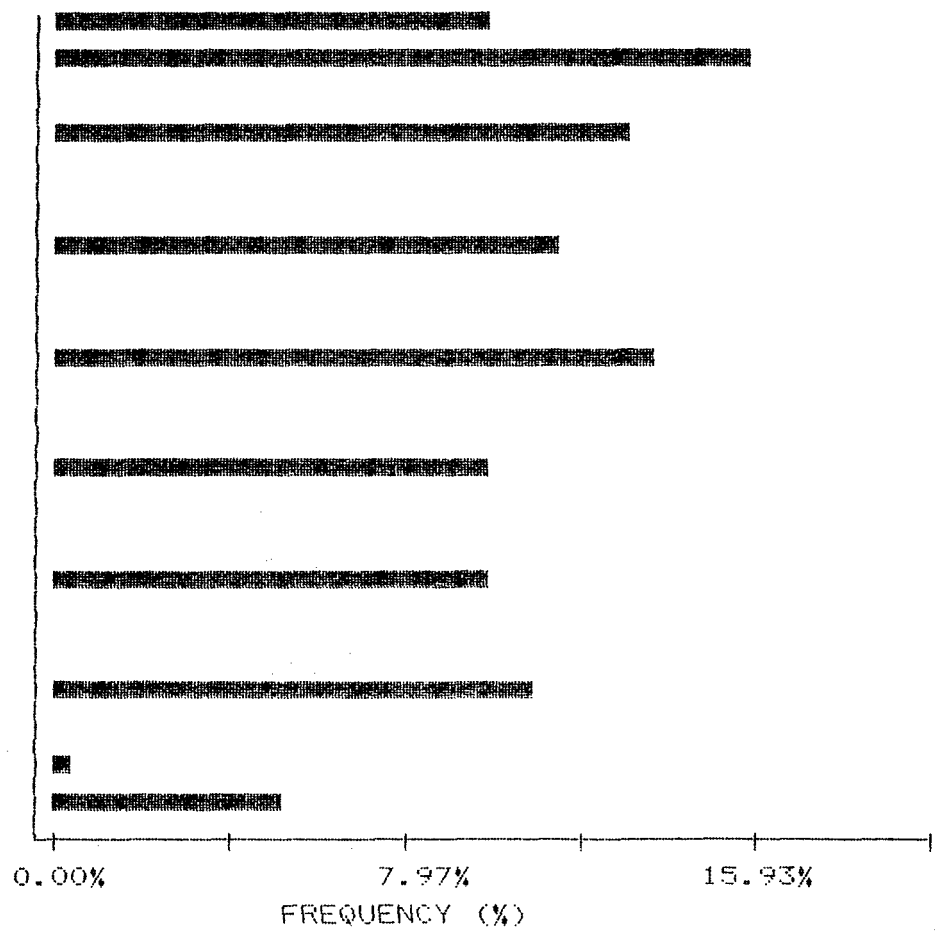
| | |
|---|---|
| NUMBER OF SAMPLES: | 182 |
| MAXIMUM VALUE: | 59.00 PPM |
| MINIMUM VALUE: | 0.00 PPM |
| MEAN: | 4.18 PPM |
| STD. DEVIATION: | 5.85 PPM |
| COEFF. OF VARIATION: | 1.40 |

5 HIGHEST SB VALUES:

| | |
|---|---|
| BA L0+00 1+40S | 59 PPM |
| BA L1+00E 0+00S | 49 PPM |
| BA L1+00E 0+20S | 12 PPM |
| BA L0+00 1+80S | 10 PPM |
| BA L1+20W 3+20S | 10 PPM |

HISTOGRAM FOR SB CLASS INTERVAL = .35

| MID CLASS PPM | CLASS % |
|---|---|
| < 1.00 | 9.89 |
| 1.17 | 15.93 |
| 1.52 | 0.00 |
| 1.87 | 13.19 |
| 2.22 | 0.00 |
| 2.57 | 0.00 |
| 2.92 | 11.54 |
| 3.27 | 0.00 |
| 3.62 | 0.00 |
| 3.97 | 13.74 |
| 4.32 | 0.00 |
| 4.67 | 0.00 |
| 5.02 | 9.89 |
| 5.37 | 0.00 |
| 5.72 | 0.00 |
| 6.07 | 9.89 |
| 6.42 | 0.00 |
| 6.77 | 0.00 |
| 7.12 | 10.99 |
| 7.47 | 0.00 |
| 7.82 | .55 |
| > 8.00 | 5.27 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

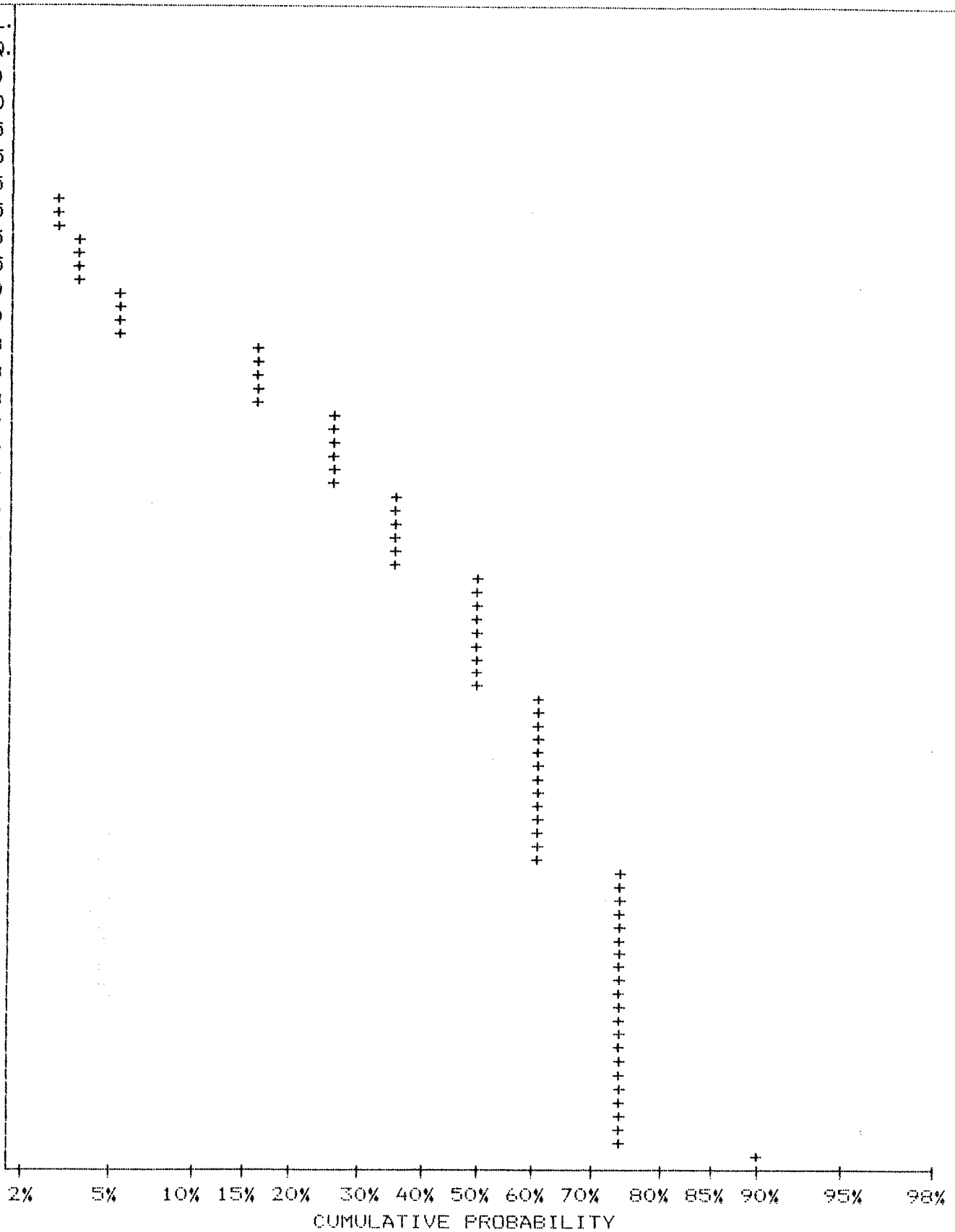
TELEX: 04-352828 PHONE: (604)980-5814 OR (604)988-4524


## CUMMULATIVE PROBABILITY PLOT ON SB

COMPANY: HI-TEC RESOURCES
ATTN: GEORGE KING
PROJECT: 87BC031
FILE#: 7-1594

DATE: NOV 9/87
SAMPLE TYPE: SOIL
ANALYSIS TYPE: ICP

| UPPER LIMIT ( PPM) | CUMMUL. FREQ. (%) |
|---|---|
| 12.36 | 1.10 |
| 11.59 | 1.65 |
| 10.86 | 1.65 |
| 10.19 | 1.65 |
| 9.55 | 2.75 |
| 8.95 | 3.85 |
| 8.39 | 3.85 |
| 7.87 | 5.49 |
| 7.38 | 5.49 |
| 6.92 | 16.48 |
| 6.49 | 16.48 |
| 6.08 | 16.48 |
| 5.70 | 26.37 |
| 5.35 | 26.37 |
| 5.01 | 26.37 |
| 4.70 | 36.26 |
| 4.41 | 36.26 |
| 4.13 | 36.26 |
| 3.87 | 50.00 |
| 3.63 | 50.00 |
| 3.40 | 50.00 |
| 3.19 | 50.00 |
| 2.99 | 61.54 |
| 2.80 | 61.54 |
| 2.63 | 61.54 |
| 2.47 | 61.54 |
| 2.31 | 61.54 |
| 2.17 | 61.54 |
| 2.03 | 61.54 |
| 1.90 | 74.73 |
| 1.79 | 74.73 |
| 1.67 | 74.73 |
| 1.57 | 74.73 |
| 1.47 | 74.73 |
| 1.38 | 74.73 |
| 1.29 | 74.73 |
| 1.21 | 74.73 |
| 1.14 | 74.73 |
| 1.07 | 74.73 |
| 1.00 | 90.11 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## STATISTICAL SUMMARY ON ZN

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1594

DATE:NOV 9/87
SAMPLE TYPE:SOIL
ANALYSIS TYPE:ICP

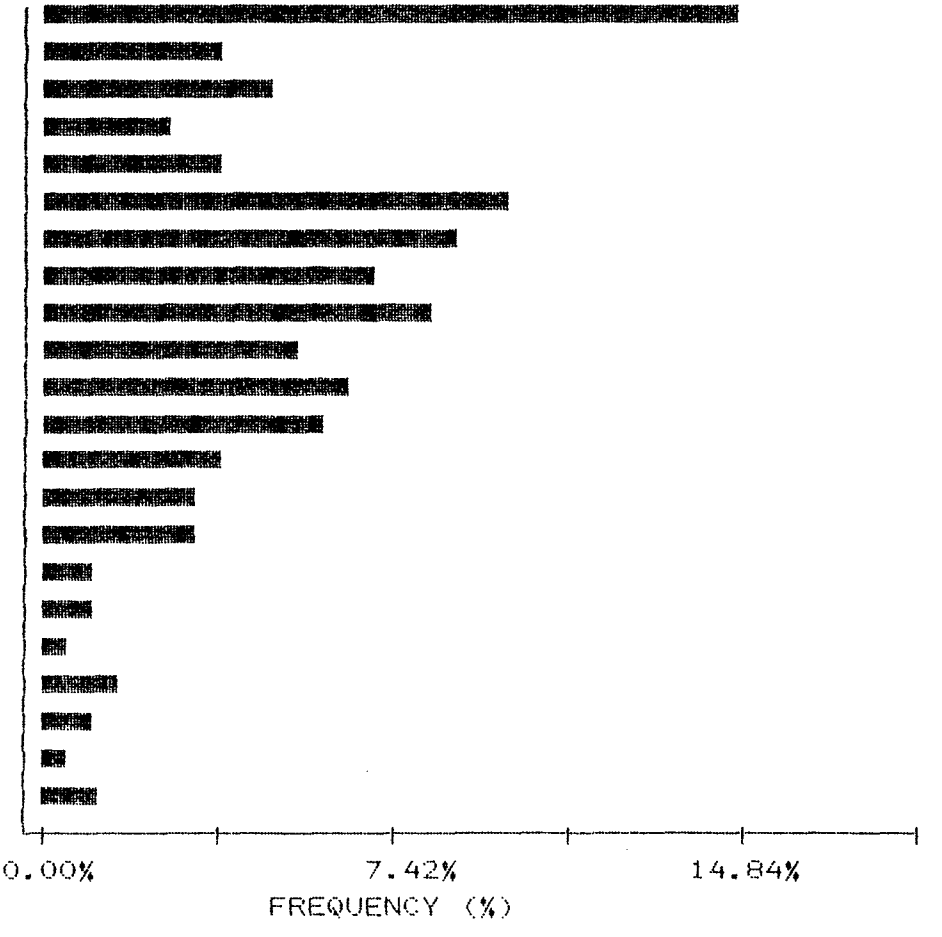
| | |
|---|---|
| NUMBER OF SAMPLES: | 182 |
| MAXIMUM VALUE: | 226.00 PPM |
| MINIMUM VALUE: | 55.00 PPM |
| MEAN: | 115.16 PPM |
| STD. DEVIATION: | 24.23 PPM |
| COEFF. OF VARIATION: | .21 |

5 HIGHEST ZN VALUES:

| | | |
|---|---|---|
| BA | L0+40W 0+20S | 226 PPM |
| BA | L0+80E 1+80S | 192 PPM |
| BA | L1+20W 1+20S | 168 PPM |
| BA | L1+20W 2+20S | 166 PPM |
| BA | L0+40E 0+20S | 163 PPM |

HISTOGRAM FOR ZN CLASS INTERVAL = 3.85

| MID CLASS PPM | CLASS % |
|---|---|
| < 91.00 | 14.84 |
| 92.93 | 3.85 |
| 96.78 | 4.95 |
| 100.63 | 2.75 |
| 104.48 | 3.85 |
| 108.33 | 9.89 |
| 112.18 | 8.79 |
| 116.03 | 7.14 |
| 119.88 | 8.24 |
| 123.73 | 5.49 |
| 127.58 | 6.59 |
| 131.43 | 6.04 |
| 135.28 | 3.85 |
| 139.13 | 3.30 |
| 142.98 | 3.30 |
| 146.83 | 1.10 |
| 150.68 | 1.10 |
| 154.53 | .55 |
| 158.38 | 1.65 |
| 162.23 | 1.10 |
| 166.08 | .55 |
| > 168.00 | 1.32 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

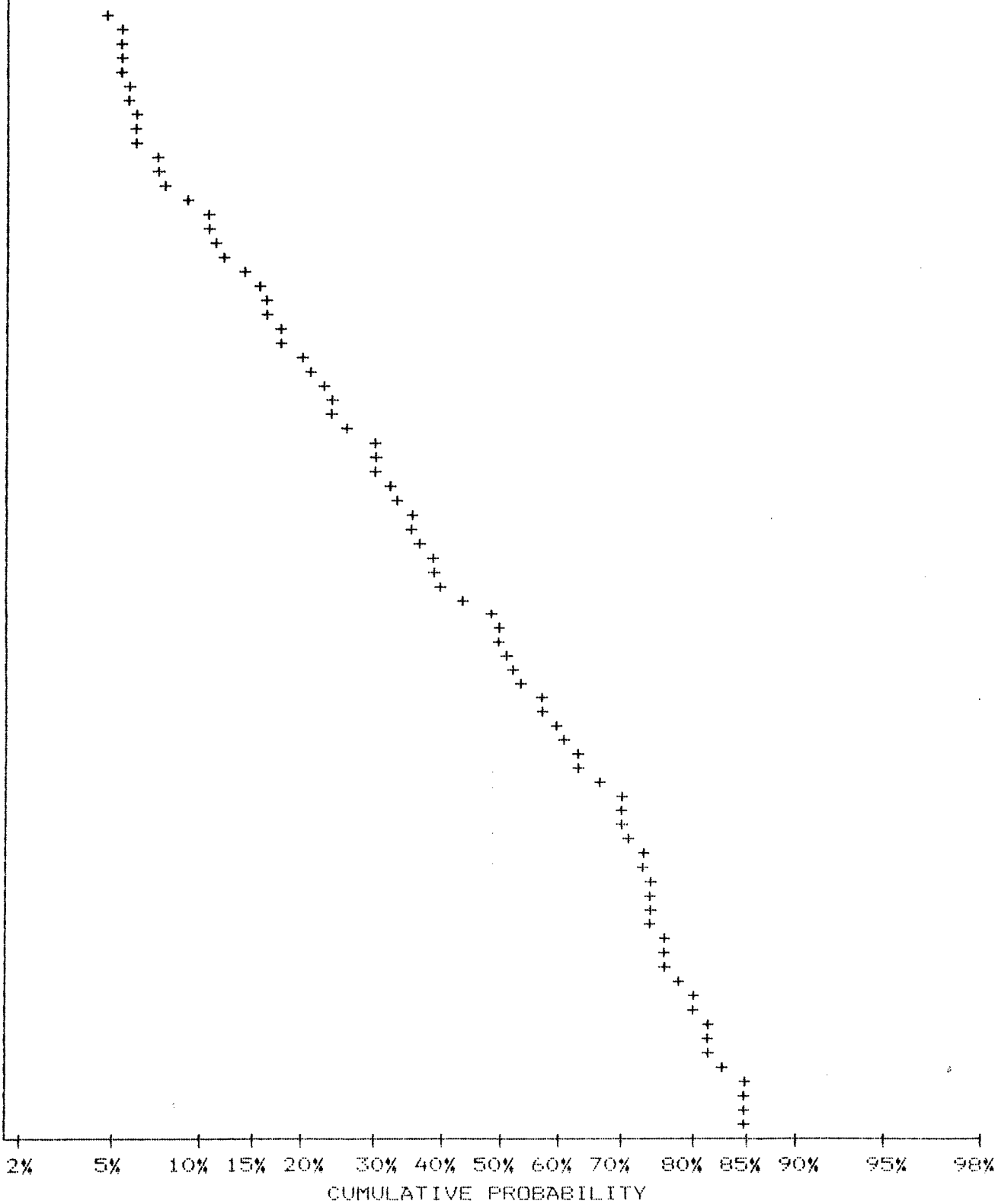
TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## CUMMULATIVE PROBABILITY PLOT ON ZN

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1594

DATE:NOV 9/87
SAMPLE TYPE:SOIL
ANALYSIS TYPE:ICP

| UPPER LIMIT ( PPM) | CUMMUL. FREQ. (%) |
|---|---|
| 155.97 | 4.95 |
| 153.79 | 5.49 |
| 151.70 | 5.49 |
| 149.60 | 6.04 |
| 147.60 | 6.59 |
| 145.60 | 7.69 |
| 143.60 | 8.24 |
| 141.60 | 10.99 |
| 139.69 | 11.54 |
| 137.77 | 14.29 |
| 135.86 | 16.48 |
| 133.95 | 18.13 |
| 132.13 | 20.88 |
| 130.31 | 23.08 |
| 128.58 | 24.73 |
| 126.76 | 30.22 |
| 125.03 | 30.77 |
| 123.31 | 34.07 |
| 121.67 | 36.26 |
| 119.94 | 39.56 |
| 118.30 | 41.21 |
| 116.66 | 49.45 |
| 115.11 | 50.00 |
| 113.48 | 53.30 |
| 111.93 | 57.69 |
| 110.38 | 60.44 |
| 108.93 | 64.29 |
| 107.38 | 67.03 |
| 105.92 | 70.88 |
| 104.47 | 71.98 |
| 103.01 | 73.08 |
| 101.65 | 74.18 |
| 100.28 | 74.18 |
| 98.83 | 76.92 |
| 97.55 | 78.02 |
| 96.19 | 80.22 |
| 94.82 | 81.87 |
| 93.55 | 82.97 |
| 92.27 | 85.16 |
| 91.00 | 85.16 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## STATISTICAL SUMMARY ON AU

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1594

DATE:NOV 9/87
SAMPLE TYPE:SOIL
ANALYSIS TYPE:ICP

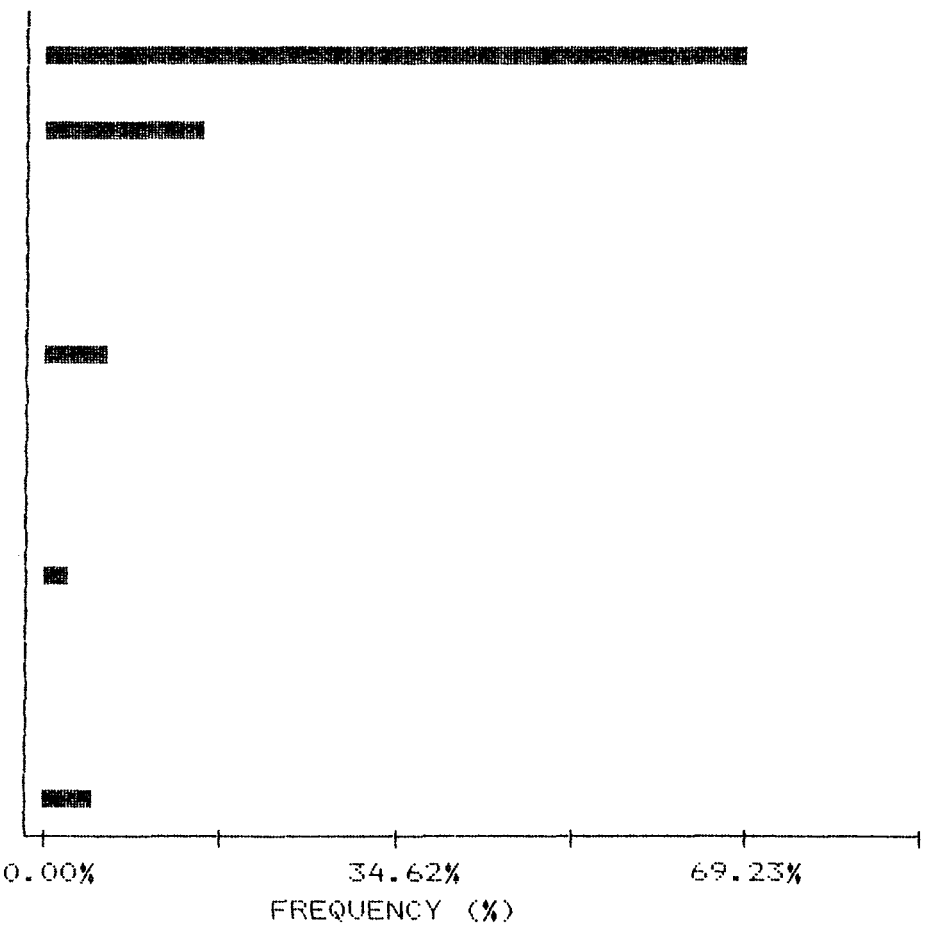
| | |
|---|---|
| NUMBER OF SAMPLES: | 182 |
| MAXIMUM VALUE: | 3250.00 PPB |
| MINIMUM VALUE: | 5.00 PPB |
| MEAN: | 31.90 PPB |
| STD. DEVIATION: | 244.02 PPB |
| COEFF. OF VARIATION: | 7.65 |

5 HIGHEST AU VALUES:

| | |
|---|---|
| BA L0+40W 0+00N | 3250 PPB |
| BA L0+00 1+20N | 530 PPB |
| BA L0+40W 4+00S | 250 PPB |
| BA L0+00 2+20N | 140 PPB |
| BA L0+00 1+80N | 100 PPB |

HISTOGRAM FOR AU CLASS INTERVAL = 1.75

| MID CLASS PPB | CLASS % |
|---|---|
| < 5.00 | .55 |
| 5.88 | 69.23 |
| 7.63 | 0.00 |
| 9.38 | 15.93 |
| 11.13 | 0.00 |
| 12.88 | 0.00 |
| 14.63 | .55 |
| 16.38 | 0.00 |
| 18.13 | 0.00 |
| 19.88 | 6.59 |
| 21.63 | 0.00 |
| 23.38 | 0.00 |
| 25.13 | 0.00 |
| 26.88 | 0.00 |
| 28.63 | 0.00 |
| 30.38 | 2.75 |
| 32.13 | 0.00 |
| 33.88 | 0.00 |
| 35.63 | 0.00 |
| 37.38 | 0.00 |
| 39.13 | 0.00 |
| > 40.00 | 5.27 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

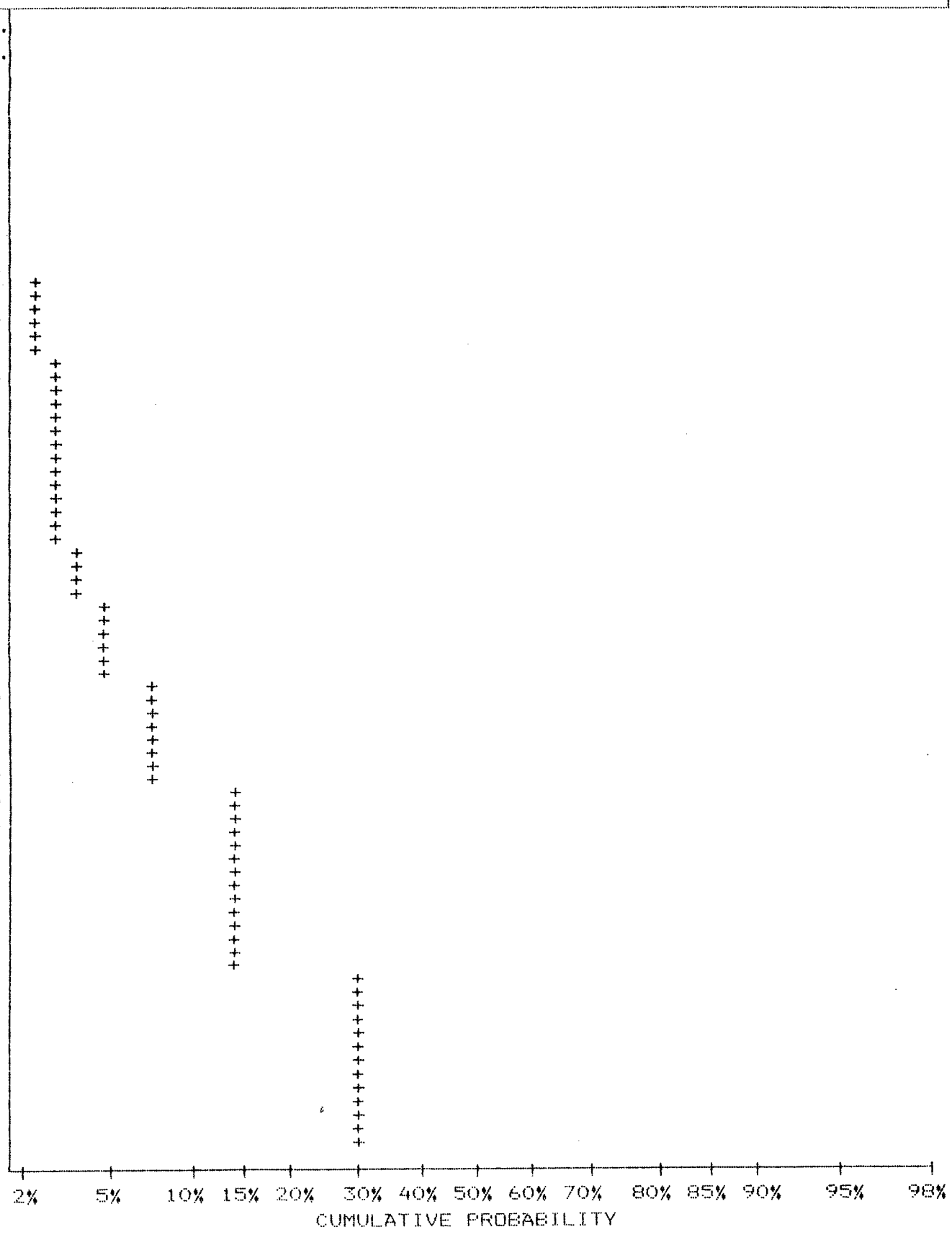
TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## CUMMULATIVE PROBABILITY PLOT ON AU

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1594

DATE:NOV 9/87
SAMPLE TYPE:SOIL
ANALYSIS TYPE:ICP

| UPPER LIMIT ( PPB) | CUMMUL. FREQ. (%) |
|---|---|
| 260.00 | 1.10 |
| 234.94 | 1.65 |
| 212.31 | 1.65 |
| 191.86 | 1.65 |
| 173.37 | 1.65 |
| 156.66 | 1.65 |
| 141.57 | 1.65 |
| 127.93 | 2.20 |
| 115.60 | 2.20 |
| 104.47 | 2.20 |
| 94.40 | 2.75 |
| 85.30 | 2.75 |
| 77.09 | 3.30 |
| 69.66 | 3.30 |
| 62.94 | 3.30 |
| 56.88 | 3.30 |
| 51.40 | 3.30 |
| 46.45 | 3.85 |
| 41.97 | 3.85 |
| 37.93 | 4.95 |
| 34.27 | 4.95 |
| 30.97 | 4.95 |
| 27.99 | 7.69 |
| 25.29 | 7.69 |
| 22.85 | 7.69 |
| 20.65 | 7.69 |
| 18.66 | 14.29 |
| 16.87 | 14.29 |
| 15.24 | 14.29 |
| 13.77 | 14.84 |
| 12.44 | 14.84 |
| 11.25 | 14.84 |
| 10.16 | 14.84 |
| 9.18 | 30.77 |
| 8.30 | 30.77 |
| 7.50 | 30.77 |
| 6.78 | 30.77 |
| 6.13 | 30.77 |
| 5.54 | 30.77 |
| 5.00 | 99.45 |



# APPENDIX V-B

## Statistical Analysis of Data for Stream Sediment Geochem Survey

# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## CORRELATION COEFFICIENTS

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87
SAMPLE TYPE:SILT
ANALYSIS TYPE:ICP

THE TABLE BELOW REPRESENTS THE PEARSON CORRELATION MATRIX, SHOWING THE INTER-ELEMENT CORRELATION COEFFICIENTS. THOSE VALUES THAT EXCEED THEIR CRITICAL VALUE FOR .01 LEVEL OF SIGNIFICANCE ARE SHOWN IN DARKER PRINT AND UNDERLINED.

| | AG | AS | CU | PB | SB | ZN | AU |
|---|---|---|---|---|---|---|---|
| AG | 1.000 | **.751** | -.186 | .190 | **.414** | .309 | -.112 |
| AS | | 1.000 | -.285 | .174 | .136 | .120 | -.102 |
| CU | | | 1.000 | .260 | .235 | -.256 | .121 |
| PB | | | | 1.000 | .137 | -.042 | -.061 |
| SB | | | | | 1.000 | -.177 | .004 |
| ZN | | | | | | 1.000 | -.054 |
| AU | | | | | | | 1.000 |

# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## STATISTICAL SUMMARY ON AG

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87
SAMPLE TYPE:SILT
ANALYSIS TYPE:ICP

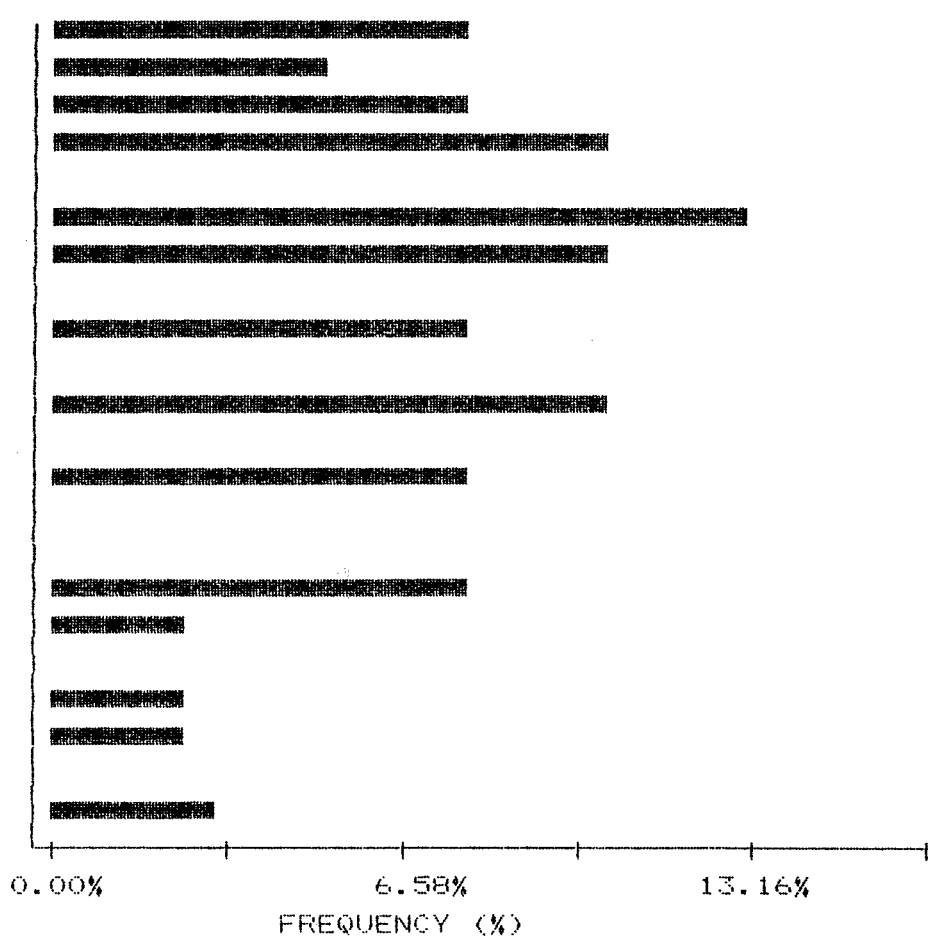
| | |
|---|---|
| NUMBER OF SAMPLES: | 38 |
| MAXIMUM VALUE: | 4.50 PPM |
| MINIMUM VALUE: | .20 PPM |
| MEAN: | 1.18 PPM |
| STD. DEVIATION: | .68 PPM |
| COEFF. OF VARIATION: | .58 |

5 HIGHEST AG VALUES:

| | |
|---|---|
| 87BKL 36 | 4.5 PPM |
| 87 BGL 7 | 1.9 PPM |
| 87 BSL 3 | 1.9 PPM |
| 87 BSL 6 | 1.8 PPM |
| 87 BSL 4 | 1.7 PPM |

HISTOGRAM FOR AG CLASS INTERVAL = .07

| MID CLASS PPM | CLASS % |
|---|---|
| < .60 | 7.89 |
| .64 | 5.26 |
| .71 | 7.89 |
| .78 | 10.53 |
| .85 | 0.00 |
| .92 | 13.16 |
| .99 | 10.53 |
| 1.06 | 0.00 |
| 1.13 | 7.89 |
| 1.20 | 0.00 |
| 1.27 | 10.53 |
| 1.34 | 0.00 |
| 1.41 | 7.89 |
| 1.48 | 0.00 |
| 1.55 | 0.00 |
| 1.62 | 7.89 |
| 1.69 | 2.63 |
| 1.76 | 0.00 |
| 1.83 | 2.63 |
| 1.90 | 2.63 |
| 1.97 | 0.00 |
| > 1.90 | 3.16 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

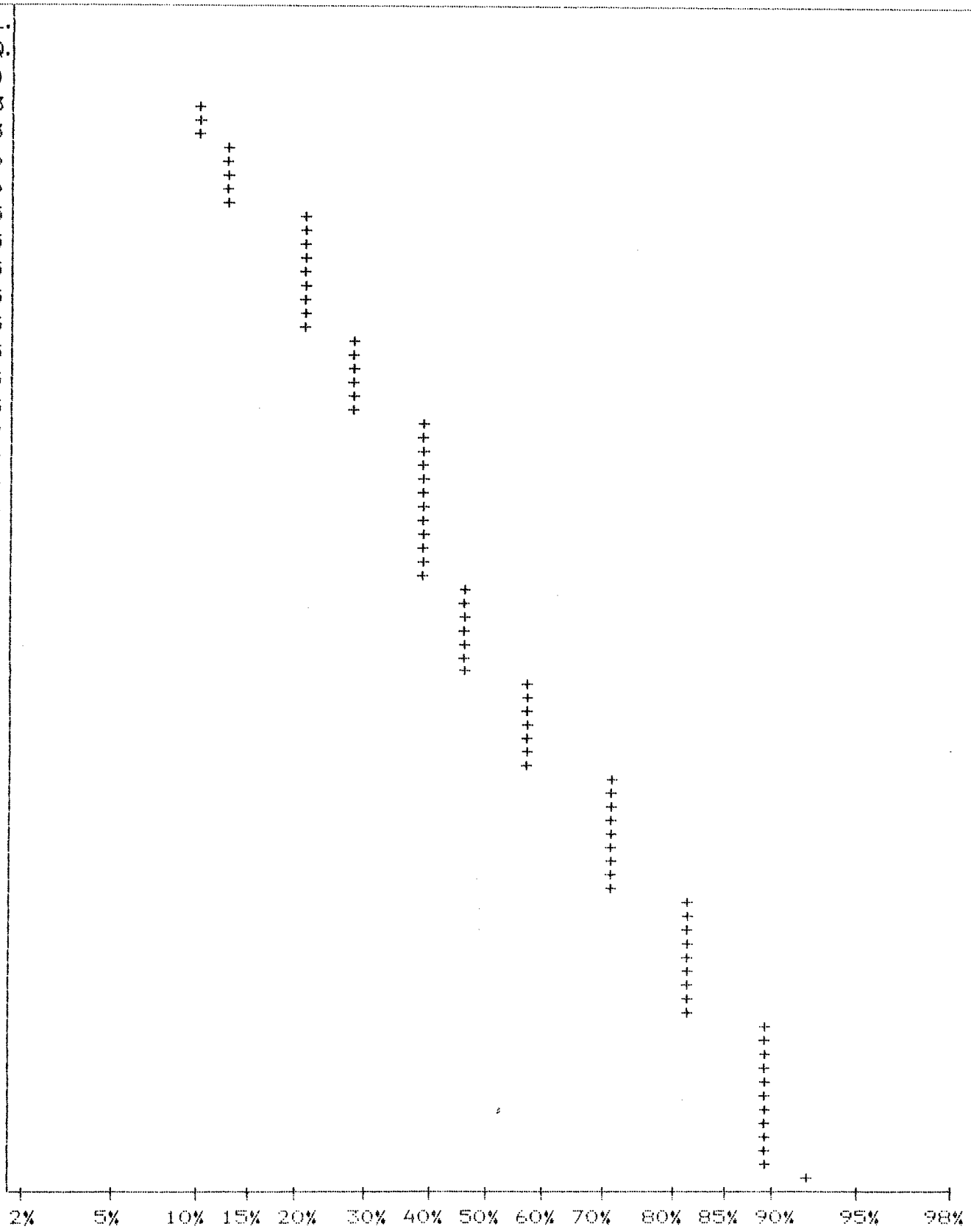
TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524

## CUMMULATIVE PROBABILITY PLOT ON AG

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87
SAMPLE TYPE:SILT
ANALYSIS TYPE:ICP

| UPPER LIMIT ( PPM) | CUMMUL. FREQ. (%) |
|---|---|
| 1.76 | 10.53 |
| 1.71 | 10.53 |
| 1.67 | 13.16 |
| 1.62 | 13.16 |
| 1.58 | 21.05 |
| 1.54 | 21.05 |
| 1.49 | 21.05 |
| 1.45 | 21.05 |
| 1.41 | 21.05 |
| 1.37 | 28.95 |
| 1.34 | 28.95 |
| 1.30 | 28.95 |
| 1.27 | 39.47 |
| 1.23 | 39.47 |
| 1.20 | 39.47 |
| 1.16 | 39.47 |
| 1.13 | 39.47 |
| 1.10 | 39.47 |
| 1.07 | 47.37 |
| 1.04 | 47.37 |
| 1.01 | 47.37 |
| .99 | 57.89 |
| .96 | 57.89 |
| .93 | 57.89 |
| .91 | 57.89 |
| .88 | 71.05 |
| .86 | 71.05 |
| .84 | 71.05 |
| .81 | 71.05 |
| .79 | 81.58 |
| .77 | 81.58 |
| .75 | 81.58 |
| .73 | 81.58 |
| .71 | 81.58 |
| .69 | 89.47 |
| .67 | 89.47 |
| .65 | 89.47 |
| .63 | 89.47 |
| .62 | 89.47 |
| .60 | 92.11 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## STATISTICAL SUMMARY ON AS

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87
SAMPLE TYPE:SILT
ANALYSIS TYPE:ICP

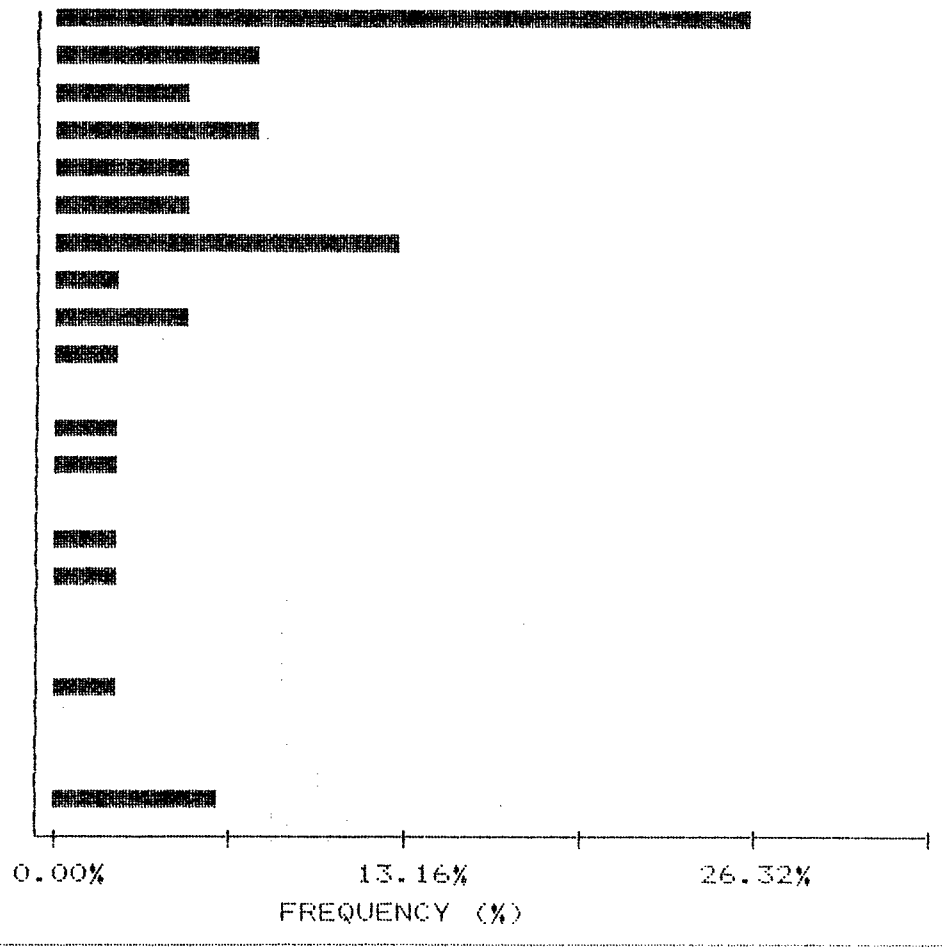
| | |
|---|---|
| NUMBER OF SAMPLES: | 38 |
| MAXIMUM VALUE: | 36.00 PPM |
| MINIMUM VALUE: | 0.00 PPM |
| MEAN: | 6.50 PPM |
| STD. DEVIATION: | 7.86 PPM |
| COEFF. OF VARIATION: | 1.21 |

5 HIGHEST AS VALUES:

| | |
|---|---|
| 87BKL 36 | 36 PPM |
| 87BKL 40 | 25 PPM |
| 87 BSL 2 | 20 PPM |
| 87 BSL 4 | 18 PPM |
| 87 BSL 3 | 15 PPM |

HISTOGRAM FOR AS CLASS INTERVAL = .95

| MID CLASS PPM | CLASS % |
|---|---|
| < 1.00 | 26.32 |
| 1.48 | 7.89 |
| 2.43 | 5.26 |
| 3.38 | 7.89 |
| 4.33 | 5.26 |
| 5.28 | 5.26 |
| 6.23 | 13.16 |
| 7.18 | 2.63 |
| 8.13 | 5.26 |
| 9.08 | 2.63 |
| 10.03 | 0.00 |
| 10.98 | 2.63 |
| 11.93 | 2.63 |
| 12.88 | 0.00 |
| 13.83 | 2.63 |
| 14.78 | 2.63 |
| 15.73 | 0.00 |
| 16.68 | 0.00 |
| 17.63 | 2.63 |
| 18.58 | 0.00 |
| 19.53 | 0.00 |
| > 20.00 | 6.32 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

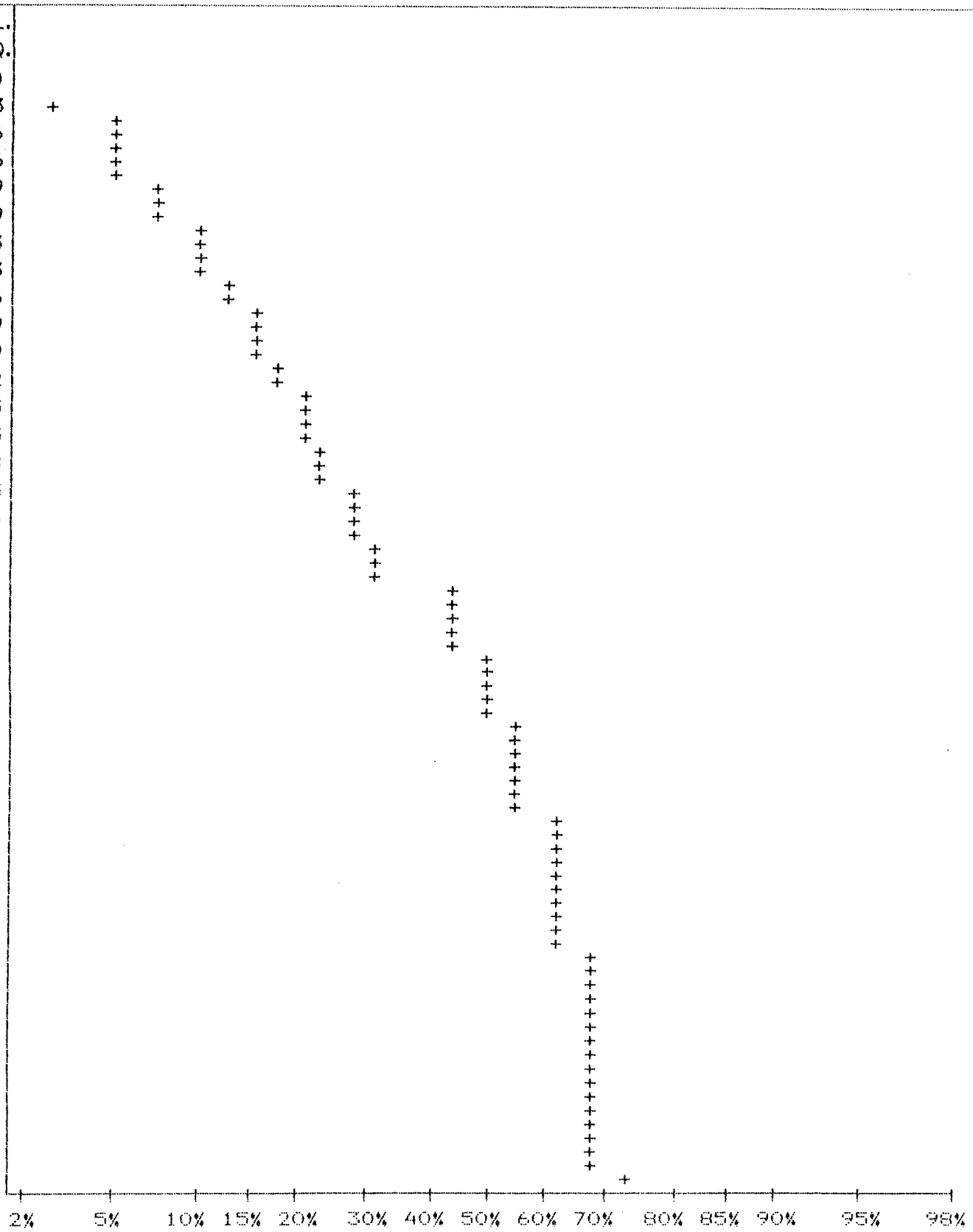
TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## CUMMULATIVE PROBABILITY PLOT ON AS

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87
SAMPLE TYPE:SILT
ANALYSIS TYPE:ICP

| UPPER LIMIT ( PPM) | CUMMUL. FREQ. (%) |
|---|---|
| 25.35 | 2.63 |
| 23.34 | 5.26 |
| 21.48 | 5.26 |
| 19.77 | 7.89 |
| 18.20 | 7.89 |
| 16.75 | 10.53 |
| 15.42 | 10.53 |
| 14.19 | 13.16 |
| 13.06 | 15.79 |
| 12.02 | 15.79 |
| 11.07 | 18.42 |
| 10.19 | 21.05 |
| 9.38 | 21.05 |
| 8.63 | 23.68 |
| 7.94 | 28.95 |
| 7.31 | 28.95 |
| 6.73 | 31.58 |
| 6.19 | 31.58 |
| 5.70 | 44.74 |
| 5.25 | 44.74 |
| 4.83 | 50.00 |
| 4.45 | 50.00 |
| 4.09 | 50.00 |
| 3.77 | 55.26 |
| 3.47 | 55.26 |
| 3.19 | 55.26 |
| 2.94 | 63.16 |
| 2.70 | 63.16 |
| 2.49 | 63.16 |
| 2.29 | 63.16 |
| 2.11 | 63.16 |
| 1.94 | 68.42 |
| 1.79 | 68.42 |
| 1.64 | 68.42 |
| 1.51 | 68.42 |
| 1.39 | 68.42 |
| 1.28 | 68.42 |
| 1.18 | 68.42 |
| 1.09 | 68.42 |
| 1.00 | 73.68 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## STATISTICAL SUMMARY ON CU

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87
SAMPLE TYPE:SILT
ANALYSIS TYPE:ICP

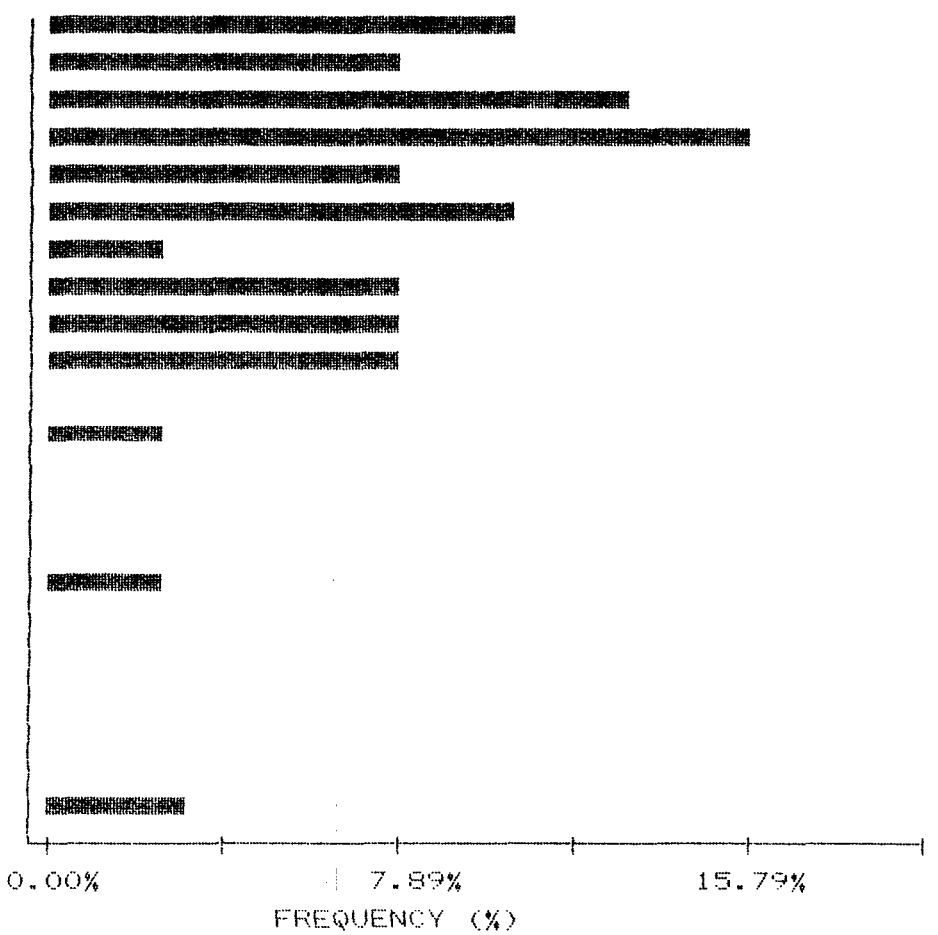
| | |
|---|---|
| NUMBER OF SAMPLES: | 38 |
| MAXIMUM VALUE: | 208.00 PPM |
| MINIMUM VALUE: | 13.00 PPM |
| MEAN: | 66.95 PPM |
| STD. DEVIATION: | 39.58 PPM |
| COEFF. OF VARIATION: | .59 |

5 HIGHEST CU VALUES:

| | |
|---|---|
| 87 B6L 4 | 208 PPM |
| 87 BNL 13 | 176 PPM |
| 87 B6L 3 40M | 139 PPM |
| 87 BSL 16 | 106 PPM |
| 87 BML 11 | 96 PPM |

HISTOGRAM FOR CU CLASS INTERVAL = 7.25

| MID CLASS PPM | CLASS % |
|---|---|
| < 31.00 | 10.53 |
| 34.63 | 7.89 |
| 41.88 | 13.16 |
| 49.13 | 15.79 |
| 56.38 | 7.89 |
| 63.63 | 10.53 |
| 70.88 | 2.63 |
| 78.13 | 7.89 |
| 85.38 | 7.89 |
| 92.63 | 7.89 |
| 99.88 | 0.00 |
| 107.13 | 2.63 |
| 114.38 | 0.00 |
| 121.63 | 0.00 |
| 128.88 | 0.00 |
| 136.13 | 2.63 |
| 143.38 | 0.00 |
| 150.63 | 0.00 |
| 157.88 | 0.00 |
| 165.13 | 0.00 |
| 172.38 | 0.00 |
| > 176.00 | 3.16 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524

## CUMMULATIVE PROBABILITY PLOT ON CU

COMPANY:HI-TEC RESOURCES

ATTN:GEORGE KING

PROJECT:87BC031

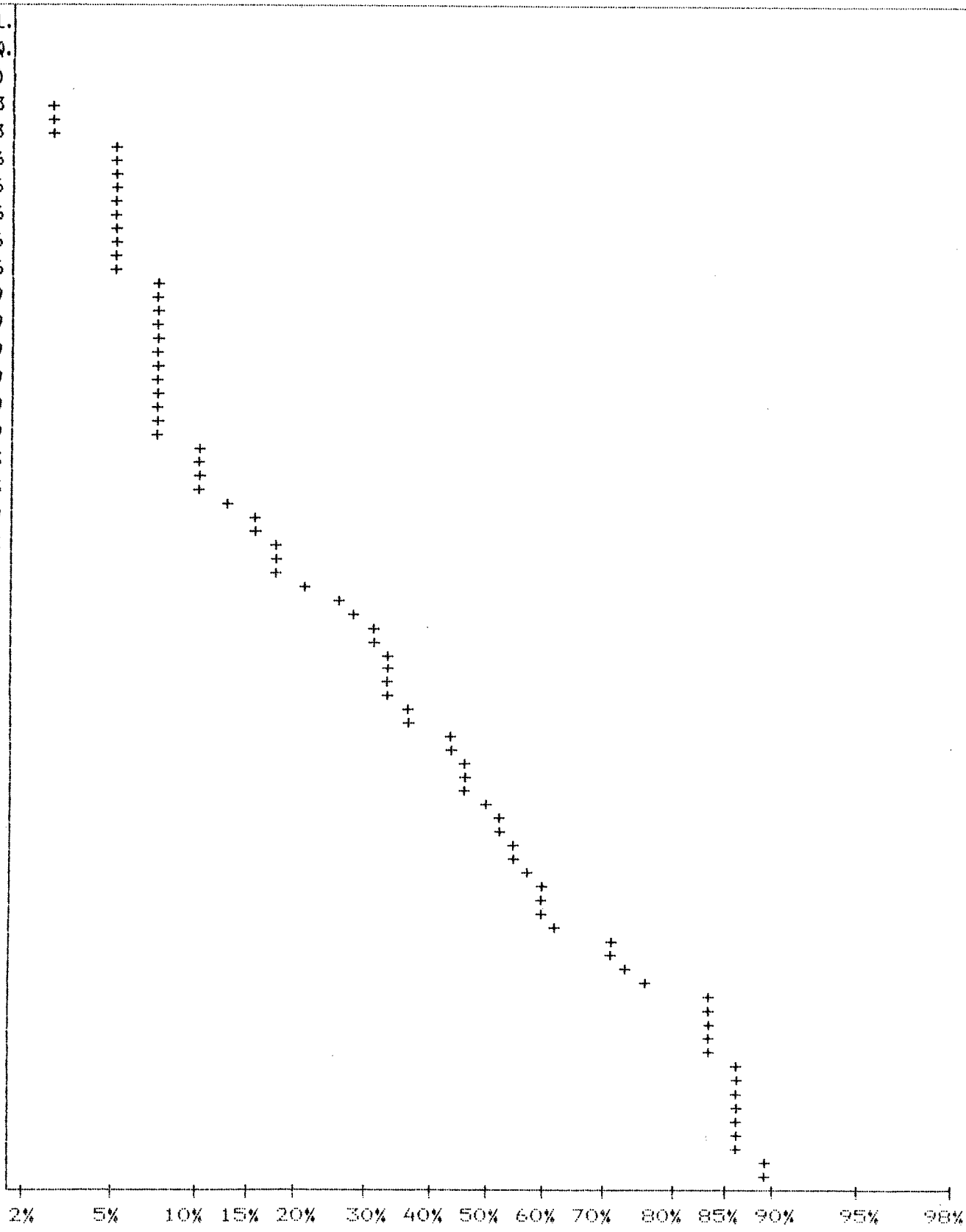
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87

SAMPLE TYPE:SILT

ANALYSIS TYPE:ICP

| UPPER LIMIT ( PPM) | CUMMUL. FREQ. (%) |
|---|---|
| 186.81 | 2.63 |
| 178.37 | 2.63 |
| 170.34 | 5.26 |
| 162.69 | 5.26 |
| 155.37 | 5.26 |
| 148.37 | 5.26 |
| 141.70 | 5.26 |
| 135.31 | 7.89 |
| 129.24 | 7.89 |
| 123.41 | 7.89 |
| 117.86 | 7.89 |
| 112.56 | 7.89 |
| 107.48 | 7.89 |
| 102.64 | 10.53 |
| 98.02 | 10.53 |
| 93.62 | 15.79 |
| 89.40 | 18.42 |
| 85.37 | 18.42 |
| 81.53 | 26.32 |
| 77.87 | 31.58 |
| 74.37 | 34.21 |
| 71.02 | 34.21 |
| 67.83 | 36.84 |
| 64.76 | 44.74 |
| 61.84 | 47.37 |
| 59.05 | 47.37 |
| 56.42 | 52.63 |
| 53.88 | 55.26 |
| 51.46 | 57.89 |
| 49.14 | 60.53 |
| 46.93 | 63.16 |
| 44.80 | 71.05 |
| 42.78 | 76.32 |
| 40.86 | 84.21 |
| 39.03 | 84.21 |
| 37.26 | 86.84 |
| 35.59 | 86.84 |
| 33.98 | 86.84 |
| 32.46 | 86.84 |
| 31.00 | 89.47 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## STATISTICAL SUMMARY ON PB

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87
SAMPLE TYPE:SILT
ANALYSIS TYPE:ICP

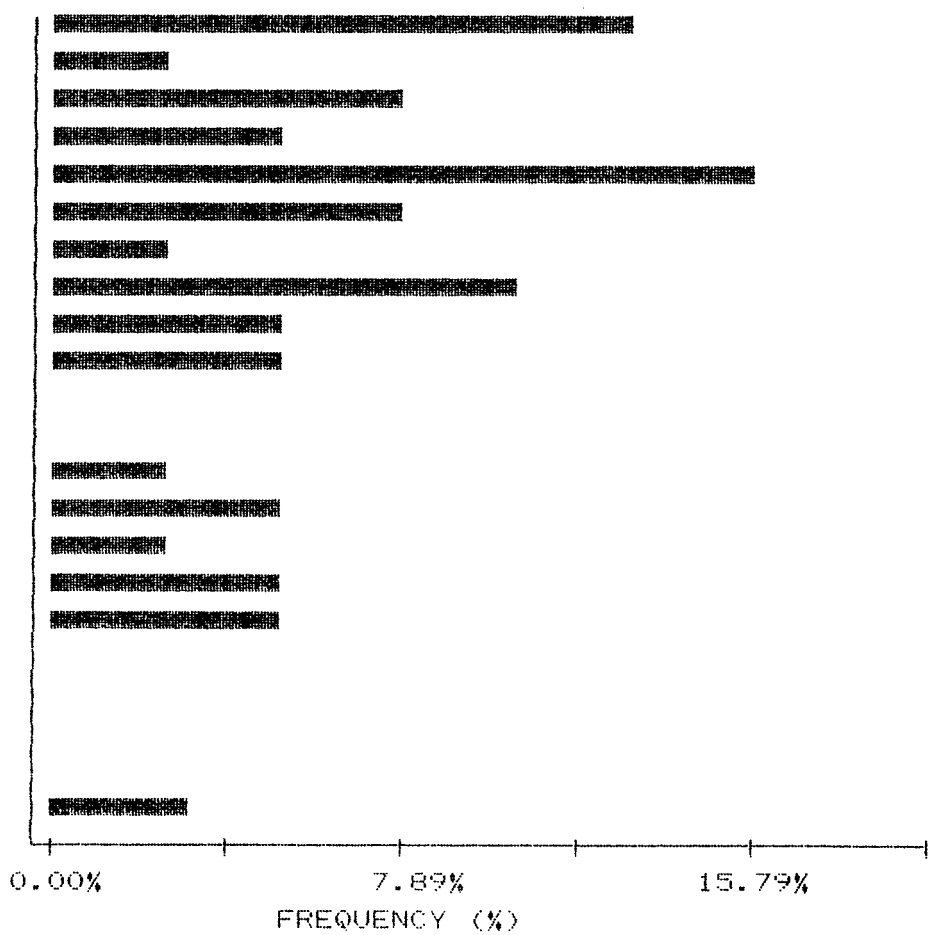
| | |
|---|---|
| NUMBER OF SAMPLES: | 38 |
| MAXIMUM VALUE: | 44.00 PPM |
| MINIMUM VALUE: | 11.00 PPM |
| MEAN: | 19.21 PPM |
| STD. DEVIATION: | 6.49 PPM |
| COEFF. OF VARIATION: | .34 |

5 HIGHEST PB VALUES:

| | |
|---|---|
| 87 BML 1 | 44 PPM |
| 87 BSL 16 | 31 PPM |
| 87 BSL 3 | 27 PPM |
| 87 BSL 17 | 27 PPM |
| 87 BSL 4 | 26 PPM |

HISTOGRAM FOR PB CLASS INTERVAL = .9

| | MID CLASS PPM | CLASS % |
|---|---|---|
| < | 13.00 | 13.16 |
| | 13.45 | 2.63 |
| | 14.35 | 7.89 |
| | 15.25 | 5.26 |
| | 16.15 | 15.79 |
| | 17.05 | 7.89 |
| | 17.95 | 2.63 |
| | 18.85 | 10.53 |
| | 19.75 | 5.26 |
| | 20.65 | 5.26 |
| | 21.55 | 0.00 |
| | 22.45 | 0.00 |
| | 23.35 | 2.63 |
| | 24.25 | 5.26 |
| | 25.15 | 2.63 |
| | 26.05 | 5.26 |
| | 26.95 | 5.26 |
| | 27.85 | 0.00 |
| | 28.75 | 0.00 |
| | 29.65 | 0.00 |
| | 30.55 | 0.00 |
| > | 31.00 | 3.16 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

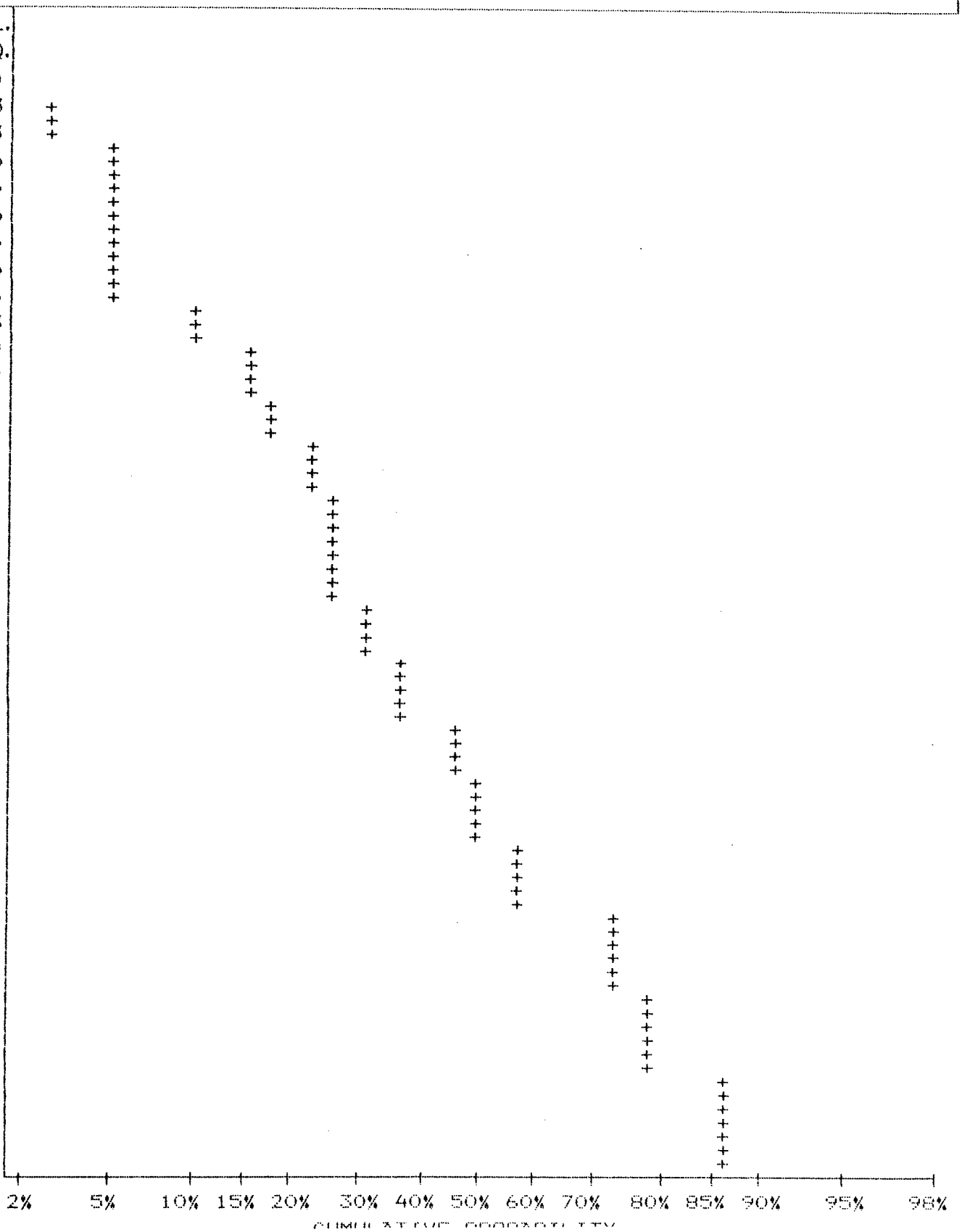
TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524

## CUMMULATIVE PROBABILITY PLOT ON PB

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87
SAMPLE TYPE:SILT
ANALYSIS TYPE:ICP

| UPPER LIMIT ( PPM) | CUMMUL. FREQ. (%) |
|---|---|
| 31.91 | 2.63 |
| 31.19 | 2.63 |
| 30.47 | 5.26 |
| 29.78 | 5.26 |
| 29.11 | 5.26 |
| 28.44 | 5.26 |
| 27.79 | 5.26 |
| 27.16 | 5.26 |
| 26.55 | 10.53 |
| 25.93 | 15.79 |
| 25.35 | 15.79 |
| 24.77 | 18.42 |
| 24.21 | 18.42 |
| 23.66 | 23.68 |
| 23.11 | 23.68 |
| 22.59 | 26.32 |
| 22.07 | 26.32 |
| 21.58 | 26.32 |
| 21.09 | 26.32 |
| 20.60 | 31.58 |
| 20.14 | 31.58 |
| 19.68 | 36.84 |
| 19.23 | 36.84 |
| 18.78 | 47.37 |
| 18.37 | 47.37 |
| 17.94 | 50.00 |
| 17.54 | 50.00 |
| 17.13 | 50.00 |
| 16.74 | 57.89 |
| 16.37 | 57.89 |
| 15.99 | 73.68 |
| 15.63 | 73.68 |
| 15.27 | 73.68 |
| 14.92 | 78.95 |
| 14.59 | 78.95 |
| 14.25 | 78.95 |
| 13.94 | 86.84 |
| 13.61 | 86.84 |
| 13.30 | 86.84 |
| 13.00 | 86.84 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## STATISTICAL SUMMARY ON SB

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87
SAMPLE TYPE:SILT
ANALYSIS TYPE:ICP

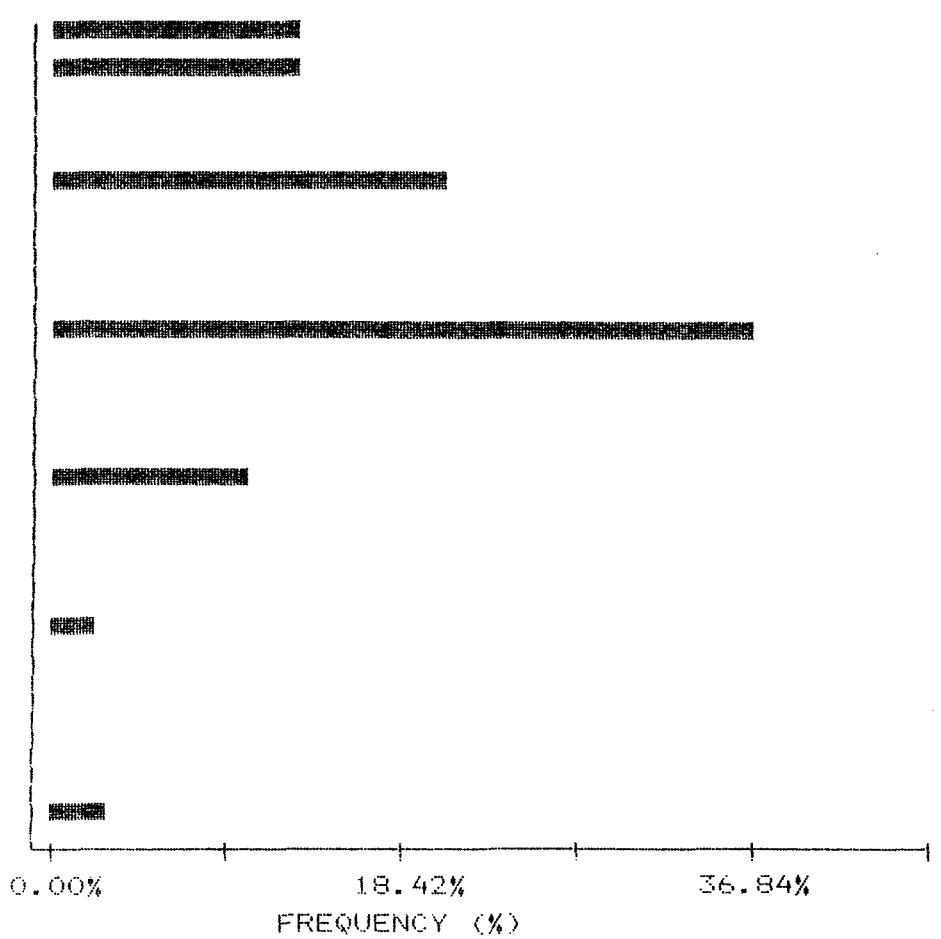
| | |
|---|---|
| NUMBER OF SAMPLES: | 38 |
| MAXIMUM VALUE: | 9.00 PPM |
| MINIMUM VALUE: | 0.00 PPM |
| MEAN: | 2.61 PPM |
| STD. DEVIATION: | 1.73 PPM |
| COEFF. OF VARIATION: | .66 |

5 HIGHEST SB VALUES:

| | |
|---|---|
| 87BKL 36 | 9 PPM |
| 87 BGL 4 | 6 PPM |
| 87 BKL 5 | 5 PPM |
| 87 BGL 1 | 4 PPM |
| 87 BGL 3 40M | 4 PPM |

HISTOGRAM FOR SB CLASS INTERVAL = .25

| MID CLASS PPM | CLASS % |
|---|---|
| < 1.00 | 13.16 |
| 1.13 | 13.16 |
| 1.38 | 0.00 |
| 1.63 | 0.00 |
| 1.88 | 21.05 |
| 2.13 | 0.00 |
| 2.38 | 0.00 |
| 2.63 | 0.00 |
| 2.88 | 36.84 |
| 3.13 | 0.00 |
| 3.38 | 0.00 |
| 3.63 | 0.00 |
| 3.88 | 10.53 |
| 4.13 | 0.00 |
| 4.38 | 0.00 |
| 4.63 | 0.00 |
| 4.88 | 2.63 |
| 5.13 | 0.00 |
| 5.38 | 0.00 |
| 5.63 | 0.00 |
| 5.88 | 0.00 |
| > 6.00 | 3.16 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

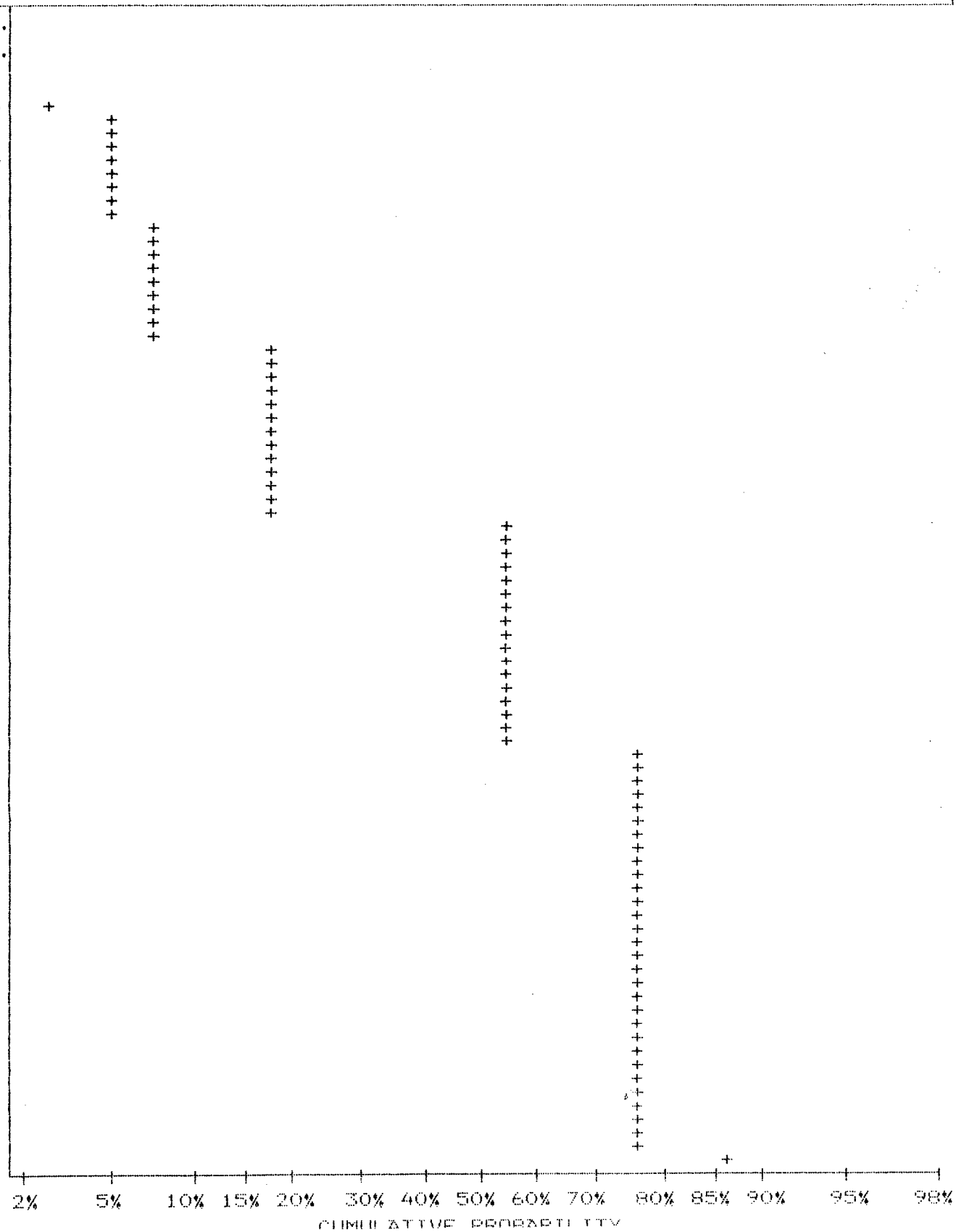
TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524

## CUMMULATIVE PROBABILITY PLOT ON SB

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87
SAMPLE TYPE:SILT
ANALYSIS TYPE:ICP

| UPPER LIMIT ( PPM) | CUMMUL. FREQ. (%) |
|---|---|
| 6.03 | 2.63 |
| 5.75 | 5.26 |
| 5.49 | 5.26 |
| 5.25 | 5.26 |
| 5.01 | 5.26 |
| 4.79 | 7.89 |
| 4.57 | 7.89 |
| 4.37 | 7.89 |
| 4.17 | 7.89 |
| 3.98 | 18.42 |
| 3.80 | 18.42 |
| 3.63 | 18.42 |
| 3.47 | 18.42 |
| 3.31 | 18.42 |
| 3.16 | 18.42 |
| 3.02 | 18.42 |
| 2.88 | 55.26 |
| 2.75 | 55.26 |
| 2.63 | 55.26 |
| 2.51 | 55.26 |
| 2.40 | 55.26 |
| 2.29 | 55.26 |
| 2.19 | 55.26 |
| 2.09 | 55.26 |
| 2.00 | 76.32 |
| 1.90 | 76.32 |
| 1.82 | 76.32 |
| 1.74 | 76.32 |
| 1.66 | 76.32 |
| 1.58 | 76.32 |
| 1.51 | 76.32 |
| 1.44 | 76.32 |
| 1.38 | 76.32 |
| 1.32 | 76.32 |
| 1.26 | 76.32 |
| 1.20 | 76.32 |
| 1.15 | 76.32 |
| 1.10 | 76.32 |
| 1.05 | 76.32 |
| 1.00 | 86.84 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## STATISTICAL SUMMARY ON ZN

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87
SAMPLE TYPE:SILT
ANALYSIS TYPE:ICP

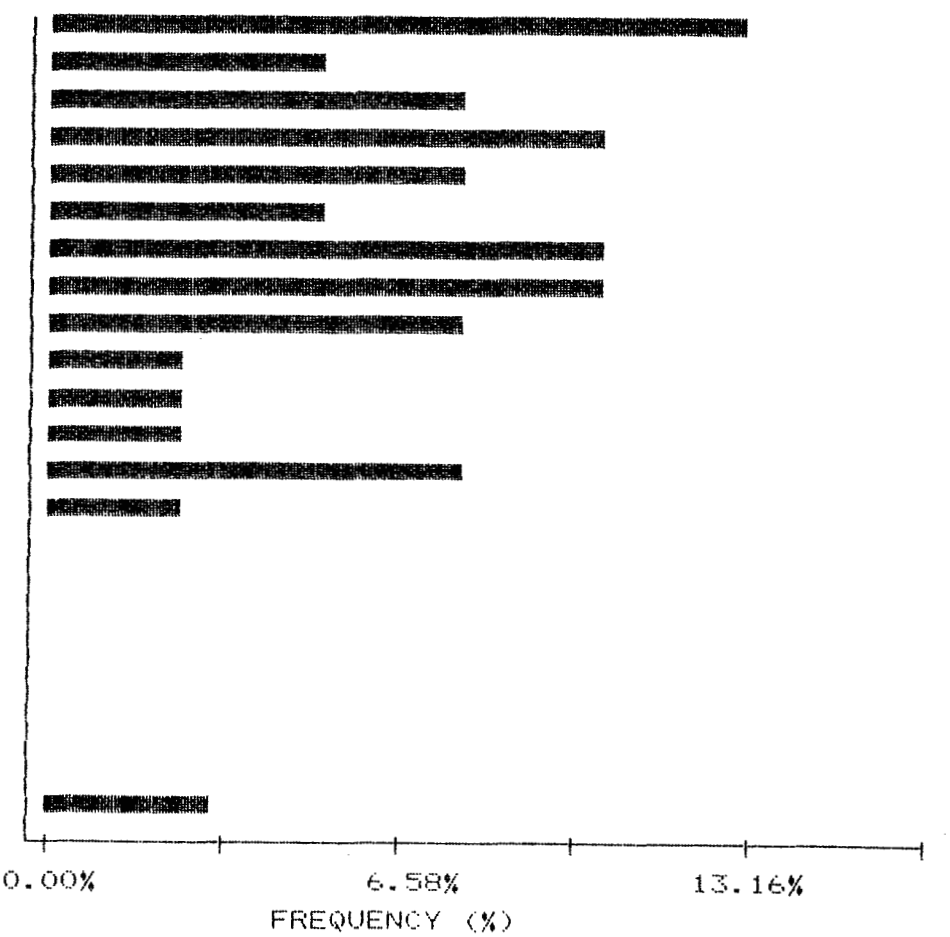
| | |
|---|---|
| NUMBER OF SAMPLES: | 38 |
| MAXIMUM VALUE: | 288.00 PPM |
| MINIMUM VALUE: | 50.00 PPM |
| MEAN: | 119.79 PPM |
| STD. DEVIATION: | 41.31 PPM |
| COEFF. OF VARIATION: | .34 |

5 HIGHEST ZN VALUES:

| | |
|---|---|
| 87 BML 7 40M | 288 PPM |
| 87 BSL 6 | 209 PPM |
| 87 BML 11 | 161 PPM |
| 87 BGL 6 | 154 PPM |
| 87 BM 13 | 154 PPM |

HISTOGRAM FOR ZN CLASS INTERVAL = 6.3

| MID CLASS PPM | CLASS % |
|---|---|
| < 83.00 | 13.16 |
| 86.15 | 5.26 |
| 92.45 | 7.89 |
| 98.75 | 10.53 |
| 105.05 | 7.89 |
| 111.35 | 5.26 |
| 117.65 | 10.53 |
| 123.95 | 10.53 |
| 130.25 | 7.89 |
| 136.55 | 2.63 |
| 142.85 | 2.63 |
| 149.15 | 2.63 |
| 155.45 | 7.89 |
| 161.75 | 2.63 |
| 168.05 | 0.00 |
| 174.35 | 0.00 |
| 180.65 | 0.00 |
| 186.95 | 0.00 |
| 193.25 | 0.00 |
| 199.55 | 0.00 |
| 205.85 | 0.00 |
| > 209.00 | 3.16 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

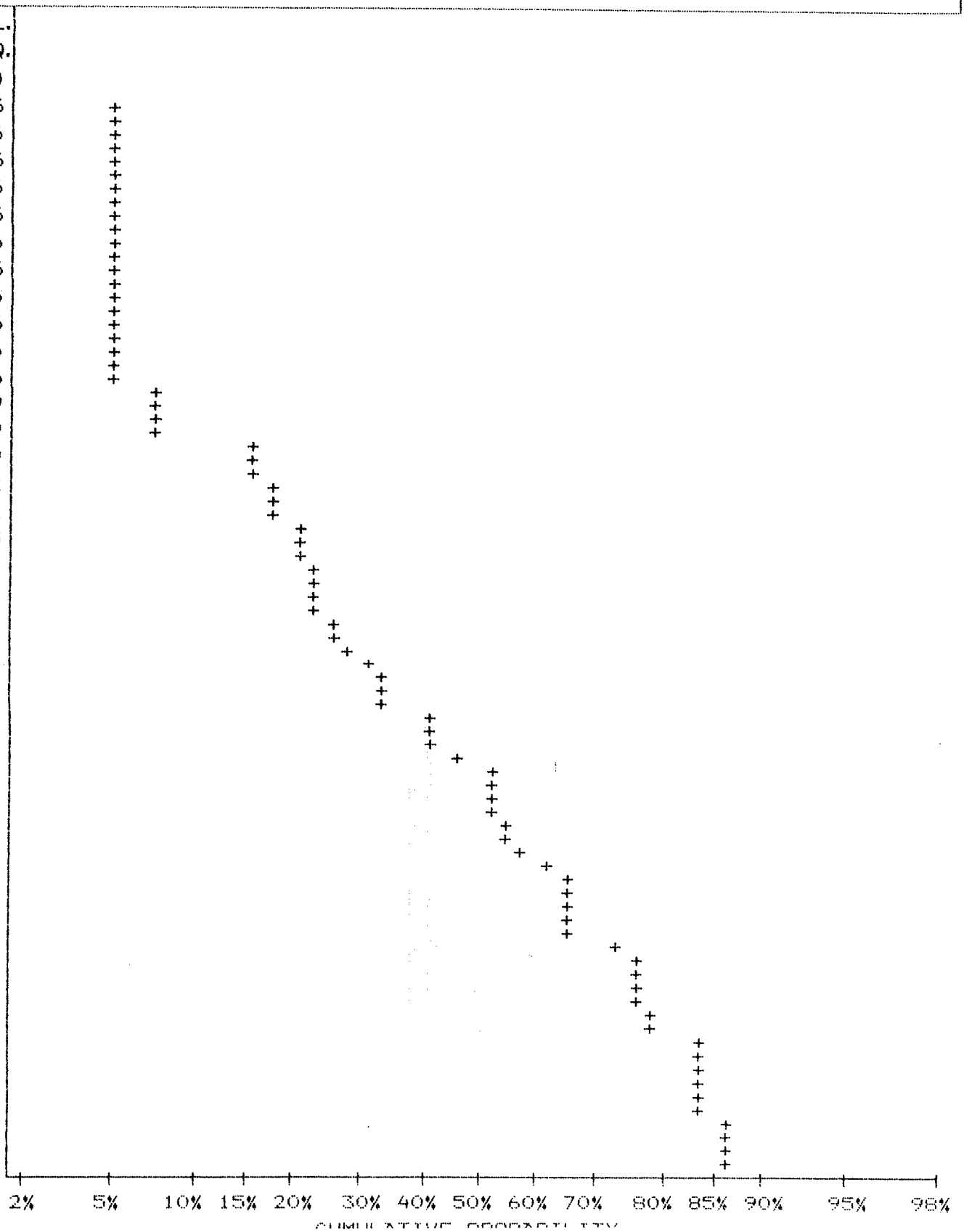
TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## CUMMULATIVE PROBABILITY PLOT ON ZN

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87
SAMPLE TYPE:SILT
ANALYSIS TYPE:ICP

| UPPER LIMIT ( PPM) | CUMMUL. FREQ. (%) |
|---|---|
| 203.76 | 5.26 |
| 199.12 | 5.26 |
| 194.55 | 5.26 |
| 190.15 | 5.26 |
| 185.84 | 5.26 |
| 181.60 | 5.26 |
| 177.45 | 5.26 |
| 173.39 | 5.26 |
| 169.49 | 5.26 |
| 165.58 | 5.26 |
| 161.85 | 5.26 |
| 158.12 | 7.89 |
| 154.55 | 7.89 |
| 151.06 | 15.79 |
| 147.57 | 18.42 |
| 144.25 | 18.42 |
| 140.93 | 21.05 |
| 137.78 | 23.68 |
| 134.63 | 23.68 |
| 131.56 | 26.32 |
| 128.57 | 28.95 |
| 125.66 | 34.21 |
| 122.76 | 34.21 |
| 119.93 | 42.11 |
| 117.28 | 47.37 |
| 114.54 | 52.63 |
| 111.97 | 52.63 |
| 109.39 | 55.26 |
| 106.90 | 63.16 |
| 104.50 | 65.79 |
| 102.09 | 65.79 |
| 99.77 | 73.68 |
| 97.52 | 76.32 |
| 95.28 | 76.32 |
| 93.13 | 78.95 |
| 90.97 | 84.21 |
| 88.98 | 84.21 |
| 86.90 | 84.21 |
| 84.91 | 86.84 |
| 83.00 | 86.84 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## STATISTICAL SUMMARY ON AU

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87
SAMPLE TYPE:SILT
ANALYSIS TYPE:ICP

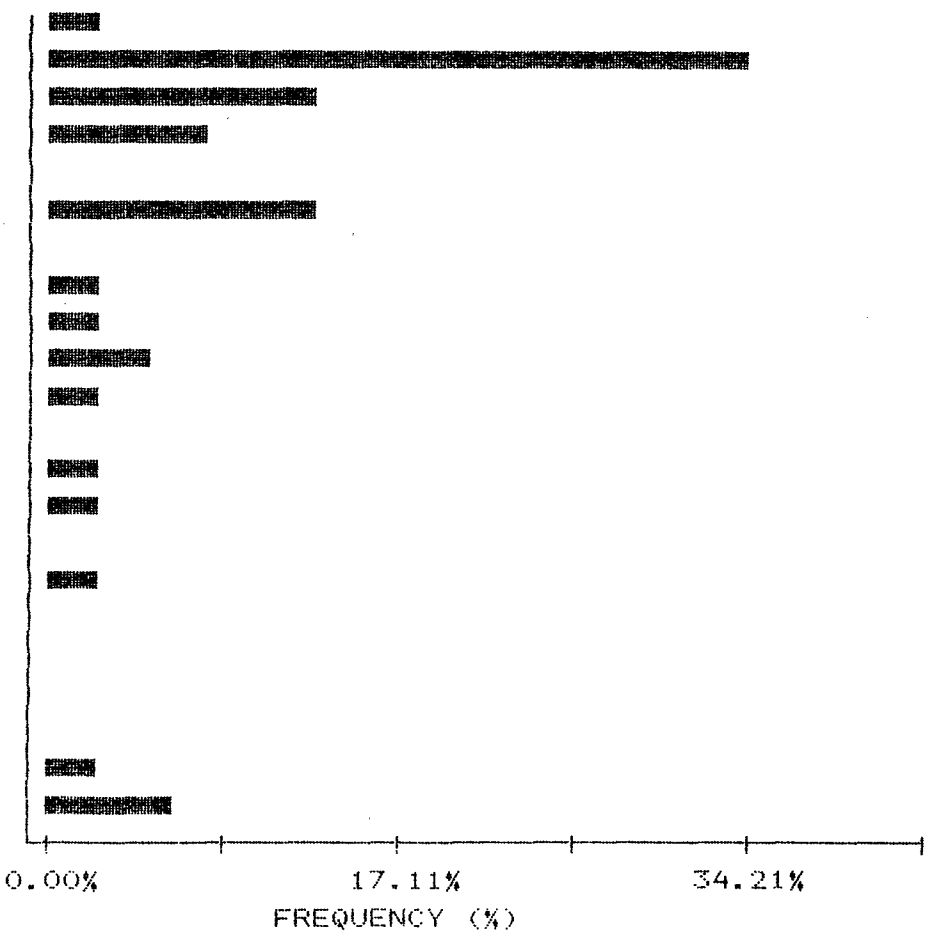
| | |
|---|---|
| NUMBER OF SAMPLES: | 38 |
| MAXIMUM VALUE: | 175.00 PPB |
| MINIMUM VALUE: | 5.00 PPB |
| MEAN: | 29.08 PPB |
| STD. DEVIATION: | 35.98 PPB |
| COEFF. OF VARIATION: | 1.24 |

5 HIGHEST AU VALUES:

| | |
|---|---|
| 87 BGL 6 | 175 PPB |
| 87 BSL 17 | 115 PPB |
| 87 BNL 10 | 85 PPB |
| 87 BSL 20 | 85 PPB |
| 87 BSL 28 | 65 PPB |

HISTOGRAM FOR AU CLASS INTERVAL = 4

| MID CLASS PPB | CLASS % |
|---|---|
| < 5.00 | 2.63 |
| 7.00 | 34.21 |
| 11.00 | 13.16 |
| 15.00 | 7.89 |
| 19.00 | 0.00 |
| 23.00 | 13.16 |
| 27.00 | 0.00 |
| 31.00 | 2.63 |
| 35.00 | 2.63 |
| 39.00 | 5.26 |
| 43.00 | 2.63 |
| 47.00 | 0.00 |
| 51.00 | 2.63 |
| 55.00 | 2.63 |
| 59.00 | 0.00 |
| 63.00 | 2.63 |
| 67.00 | 0.00 |
| 71.00 | 0.00 |
| 75.00 | 0.00 |
| 79.00 | 0.00 |
| 83.00 | 2.63 |
| > 85.00 | 6.32 |



# MIN-EN LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS

705 WEST 15TH STREET NORTH VANCOUVER, B.C. CANADA V7M 1T2

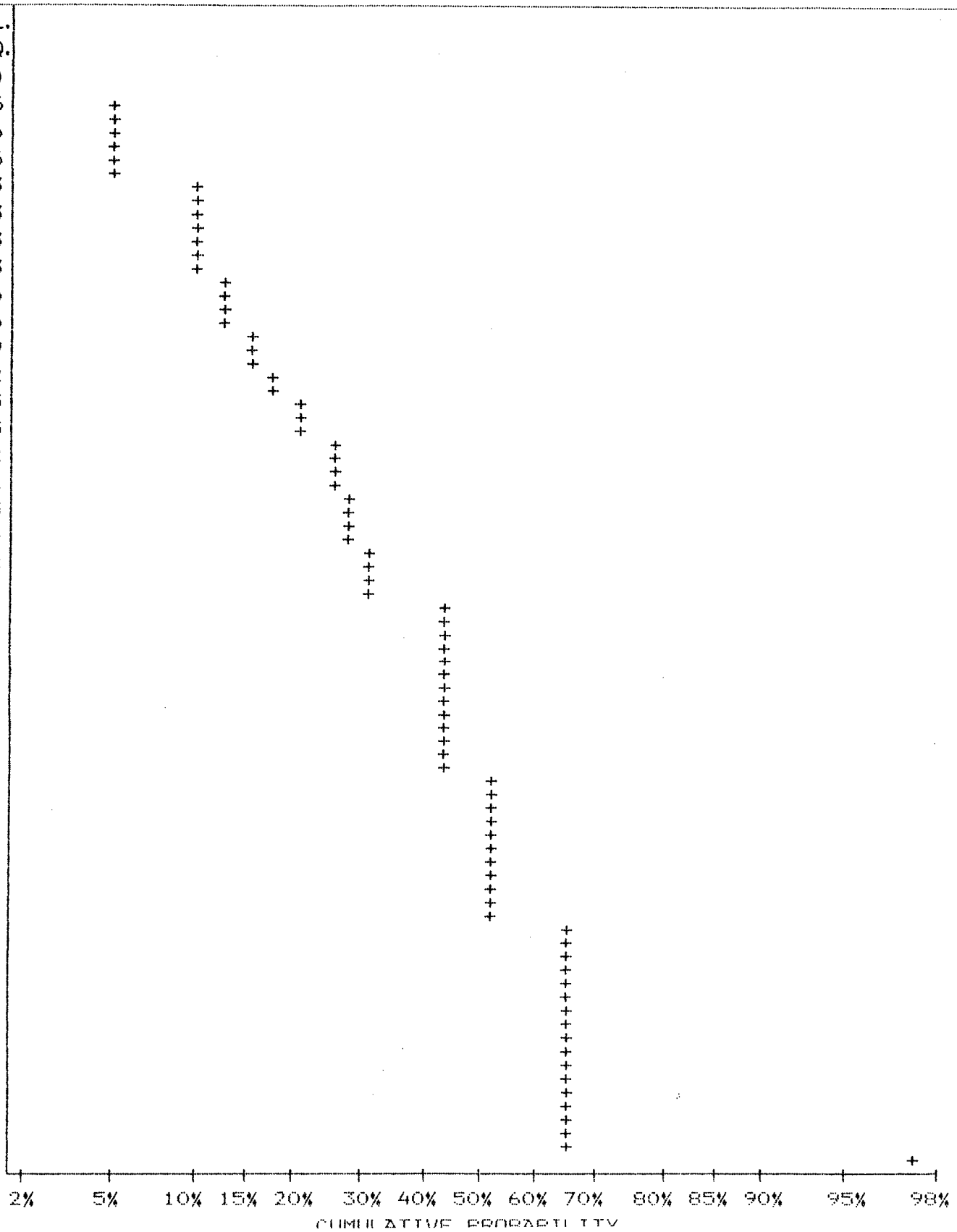
TELEX: 04-352828 PHONE:(604)980-5814 OR (604)988-4524


## CUMMULATIVE PROBABILITY PLOT ON AU

COMPANY:HI-TEC RESOURCES
ATTN:GEORGE KING
PROJECT:87BC031
FILE#:7-1318 7-1433 7-1583

DATE:NOV 10/87
SAMPLE TYPE:SILT
ANALYSIS TYPE:ICP

| UPPER LIMIT ( PPB) | CUMMUL. FREQ. (%) |
|---|---|
| 105.92 | 5.26 |
| 97.94 | 5.26 |
| 90.56 | 5.26 |
| 83.75 | 10.53 |
| 77.44 | 10.53 |
| 71.61 | 10.53 |
| 66.22 | 10.53 |
| 61.23 | 13.16 |
| 56.62 | 13.16 |
| 52.35 | 15.79 |
| 48.41 | 18.42 |
| 44.77 | 21.05 |
| 41.39 | 21.05 |
| 38.28 | 26.32 |
| 35.39 | 26.32 |
| 32.73 | 28.95 |
| 30.27 | 28.95 |
| 27.99 | 31.58 |
| 25.88 | 31.58 |
| 23.93 | 44.74 |
| 22.13 | 44.74 |
| 20.46 | 44.74 |
| 18.92 | 44.74 |
| 17.49 | 44.74 |
| 16.18 | 44.74 |
| 14.96 | 52.63 |
| 13.84 | 52.63 |
| 12.79 | 52.63 |
| 11.83 | 52.63 |
| 10.94 | 52.63 |
| 10.11 | 52.63 |
| 9.36 | 65.79 |
| 8.65 | 65.79 |
| 8.00 | 65.79 |
| 7.39 | 65.79 |
| 6.84 | 65.79 |
| 6.32 | 65.79 |
| 5.85 | 65.79 |
| 5.40 | 65.79 |
| 5.00 | 97.37 |



# APPENDIX VI

## Description of Rock Samples

## DESCRIPTION OF ROCK SAMPLES

| | |
|---|---|
| 87BMR-005 | Outcrop; argillite with some quartz containing pyrite downstream from volcanic contact. |
| 87BMR-006 | Outcrop; cherty-argillite along a mudstone contact with some pyrite along fracture planes. |
| 87BMR-009 | Outcrop; narrow quartz vein in argillite with chalcopyrite and some arsenopyrite. |
| 87BMR-010 | Same as above only .75 m away. |
| 87BMR-014 | Outcrop; volcanic calated between underlying limestone argillites - good pyrite. |
| 87BMR-015 | Outcrop; same as R-14 only more volcanics with pyrite. |
| 87BMR-016 | Outcrop; representative sample of mineralized volcanic with pyrite. |
| 87BSR-005 | Outcrop; silic. bx zone with frags of alt argillite and volcanic contains epidote and trace to minor pyrite. |
| 87BSR-012 | Outcrop; 20 cm rusty shear in volcanic. No visible mineralization. |
| 87BSR-013 | Outcrop; irregular quartz vein in shear, trace pyrite. |
| 87BSR-014 | Outcrop; same as above |
| 87BSR-015 | Outcrop; quartz filled shear with 1-3% disseminated pyrite in quartz and silic. volcanic shear 10-20 cm wide. |
| 87BSR-018 | Outcrop; 10-20 cm silic. shear with quartz, pyrite. |
| 87BSR-019 | Outcrop; 10 cm quartz vein in 2 m shear zone, pyrite, trace chalcopyrite and trace hematite. |
| 87BSR-022 | Outcrop; rusty shear. |
| 87BSR-023 | Outcrop; as above with minor pyrite over 1/2m. |

| | |
|---|---|
| 87BSR-024 | Outcrop; 1m wide rusty shear zone 1-2% pyrite, trace chalcopyrite. |
| 87BSR-025 | Outcrop; 10 m intrusive dyke with minor disseminated pyrite. |
| 76BSR-026 | Outcrop; siliceous rusty wx volcanic at hanging wall contact of porphyry mafic dyke. Minor pyrite and <1 cm quartz veining. |
| 87BGR-005 | Float; coarse flaked pyrite and stringers, some epidote and limestone in volcanic. |
| 87BGR-008 | Float; banded and disseminated pyrite in argillite. |
| 87BGR-009 | Float; (possible subcrop) argillite with fine grained pyrite. |
| 87BGR-010 | Outcrop; in shear disseminated pyrite in siliceous argillite. |
| 87BGR-011 | Outcrop; rusty crumbly rock (argillite?) with pyrite and quartz. |
| 87BGR-012 | Outcrop; intrusive with fine disseminated pyrite. |
| 87BGR-013 | Outcrop; quartz with good disseminated pyrite (shear is 2-3 m wide and 5-10 m in length). |
| 87BGR-014 | Outcrop; quartz vein with heavy pyrite along argillite/limestone contact. Vein >2-4 cm wide and at least 5 m long (number of stringers with pyrite along _____). |
| 87BGR-015 | Outcrop; pyrite in argillite/quartz rock. |
| 87BGR-016 | Outcrop; quartz stringers 1-3 cm wide 15 m in length with coarse pyrite. |
| 87BGR-017 | Outcrop; quartz vein with pyrite 3-7 m wide and 5 m in length. |
| 87BGR-018 | Float; good pyrite veining and disseminated pyrite in quartzy siliceous green stone. |
| 87BGR-019 | Outcrop; quartz crystals with large number of flaky hematite. |
| 87BGR-020 | Outcrop; quartz stringer with pyrite in argillite. |

| | |
|---|---|
| 87BGR-021 | Outcrop; argillite with pyrite in weathered crumbly rock. |
| 87BGR-022 | Outcrop; argillite with coarse pyrite in veining pyrite. |
| 87BGR-023 | Outcrop; argillite, heavily mineralized with pyrite, very rusty. |
| 87BGR-024 | Float; volcanic with massive pyrite. |
| 87BGR-025 | Float; volcanic with massive pyrite in quartz. |
| R-026 | Outcrop; similar to R-025. Volcanic with pyrite in quartzy veinlet. |
| 87BKR-001 | From a 7 cm wide quartz vein near a contact with dioritic intrusion and andesite volcanics. Chalcopyrite and (?) chalcocite mineralization. |
| 87BKR-002 | Pyrite mineralization in andesite, with argillaceous interbedding. This is from a talus slope. |
| 87BKR-003 | Pyritized lens in meta-arkose. |
| 87BKR-004 | Float; pyrite in vein quartz. |
| 87BKR-006 | Pyrite bearing quartz vein in andesitic volcanics. |
| 87BKR-007 | As above. This is a 5 cm wide vein. |
| 87BKR-008 | Rusty, pyritized lens in andesite. |
| 87BKR-009 | Rusty, pyritiferous shear zone material in andesite. |
| 87BKR-010 | As above. |
| 87BKR-011 | From zone of pyrite-silica alteration in andesite. |
| 87BKR-012 | Sample from a 3 cm wide quartz vein in andesitic volcanics. |
| 87BKR-013 | Material from altered intermediate volcanic outcrop. |
| 87BKR-014 | Sample from aplite sill. |

| | |
|---|---|
| 87BKR-015 | Sample from rusty, pyrite bearing zone, with quartz spatially associated with a shear zone. |
| 87BKR-016 | Pyritiferous, siliceous material, associated with a shear zone. |
| 87BKR-017 | Sample from a pyritiferous quartz vein in andesite. |
| 87BKR-018 | Siliceous, pyrite bearing material in andesite. |
| 87BKR-019 | Greenish, siliceous material from shear zone in andesite. |
| 87BKR-020 | 6 cm wide, pyrite bearing quartz stringer, with assicated epidote and tourmaline. |
| 87BKR-021 | Pyrite mineralization near convergence of 2 shear zones. |
| 87BKR-022 | This sample was taken across a series of 1 cm wide, pyrite bearing quartz stringers in altered zone in andesite. |
| 87BKR-023 | Chip sample across 20 cm wide aplite dyke. |
| 87BKR-024 | Pyrite bearing, quartz-epidote vein in shear zone in volcanics. |
| 87BKR-025 | Chip sample across 10 cm wide aplite vein, which has an epidote-rich selvage. |
| 87BKR-026 | Quartz-hematite mineralization in fault. |
| 87BKR-027 | Quartz-epidote altered zone in volcanics. |
| 87BKR-028 | 3 cm wide pyrite bearing quartz veinlet in andesite (agglomerate). |
| 87BKR-029 | 30 cm wide chip sample across showing shear zone, 3 m NW of sample BGR-011, strong gossan and copper staining. |
| 87BKR-030 | Footwall material from BGR-011 location. |
| 87BKR-031 | Hanging wall material from BGR-011 location. |
| 87BKR-032 | Sample across shear which runs parallel to BGR-011 shear (approx. 1 m to the NE), pyrite mineralization, strong gossan. |

| | |
|---|---|
| 87BKR-033 | Quartz vein material from BGR-011 shear; 10 m SE of BGR-011 sample. |
| 87BKR-034 | 3 cm wide quartz veinlet in (?) andesite, minor pyrite. |
| 87BKR-035 | Pyrite rich shear zone material at site of BMR-009 and BMR-010. |
| 87BKR-039 | Minor pyrite mineralization in argillite. |
| 87BKR-041 | 3 cm wide quartz veinlet in andesite. |
| 87BKR-042 | Sample taken across 1 m wide rusty shear zone in tuffaceous, andesitic volcanics hematization, silicification, and minor pyrite. |
| 87BKR-043 | Fracture with calcite and siderite filling about 20% pyrite, very minor chalcopyrite. |
| 87BKR-044 | Pyrite in silicified altered andesitic volcanics. |
| 87BKR-045 | 6 cm wide quartz sweat in volcanics, associated with epidote, actinolite $\pm$ andradite garnet. |
| 87BKR-046 | Pyrite, epidote, quartz associated with fault in tuffaceous andesitic volcanics. |
| 87BKR-047 | Hematite and minor pyrite in shear zone in volcanics. |
| 87BKR-048 | 10 cm wide quartz vein with pyrite. |
| 87BKR-049 | Quartz vein with pyrite. |
| 87BKR-050 | Quartz vein with pyrite. |
| 87BKR-051 | Zone of intense clay alteration in andesitic volcanics, intense shearing. |
| 87BKR-052 | Zone of intense clay alteration in andesitic volcanics, intense shearing. |
| 87BKR-053 | Zone of intense clay alteration in andesitic volcanics, intense shearing. |
| 87BKR-054 | Breccia, in intensely kaolinization zone with chalcedonic silica. |
| 87BBR-001 | Outcrop; pyrite, quartz, volcanics in shear zone, strike 14°. |

| | |
|---|---|
| 87BBR-002 | Outcrop; vein in shear zone-10 cm, spec. hematite strike 100° dip vertical. |
| 87BBR-003 | Outcrop; quartz veins with pyrite, strike 60°. |
| 87BBR-004 | Outcrop; quartz veins with pyrite. |
| 87BBR-005 | Outcrop; gossan with pyrite + hematite veins. |
| 87BBR-006 | Outcrop; rusty zone with some pyrite, strike 40°. |
| 87BBR-007 | Outcrop; quartz veins with some pyrite. |
| 87BBR-008 | Outcrop; some pyrite. |
| 87BBR-009 | Outcrop; gossan and quartz in shear zone, strike 160°. |
| 87BBR-010 | Outcrop; rusty quartz vein, strike 130°. |
| 87BBR-011 | Outcrop; pyrite in thin vein, strike 100°. |
| 87BBR-012 | Outcrop; beds striking 120° with disseminated pyrite. |
| 87BBR-013 | Outcrop; bed dipping SW, granitic with disseminated pyrite. |
| 87BBR-014 | Float; epidote with pyrite in creek below canyon. |
| 87BBR-016 | Outcrop; intrusive with epidote and pyrite. |
| 87BBR-018 | Outcrop; pyrite, epidote, intrusives in shear zone. |
| 87BBR-019 | Outcrop; pyrite, epidote, intrusives in shear zone. |
| 87BBR-020 | Outcrop; pyrite in veins. |
| 87BBR-021 | Outcrop; granite with epidote, disseminated pyrite. |
| 87BBR-022 | Outcrop; granite with disseminated pyrite - extensive zone. |
| 87BBR-030 | Quartz vein - strike 190° - 30 m north of Greg's R11 sample - rusty with pyrite. |
| 87BBR-031 | 32 m north of GR11 - epidote |

| | |
|---|---|
| 87BBR-032 | Quartz vein, 20 cm, strike 125° @ 0+10E, 0+25S on grid. |
| 87BBR-033 | Quartz vein 195° strike, lots of pyrite, 1+70N, 0+80E on grid. |
| 87BNR-001 | Sampled a rusty shear zone. Red rusy stain was visible. Main rock type was probably rusty andesite with quartz present. Shear zone width (and sample length) was about 20 cm. Pyrite content about 1.1-2.1. Ele. 985 meters. |
| 87BNR-002 | Sampled an outcrop with no well defined vein systems. Overburden was present. The host rock was lightly fractured and rust stained, probably andesitic volcanic type. This sample contained about 3.1 hematite and aobut 1.1 pyrite. Note, this sample was taken about 20 meters north of 87BNR-001 on the north bank of creek. Ele. about 3 meters higher than previus sample. |
| 87BNS-003 | Soil red-orange color, B horizon, depth of about 0.2 meters 10.1-20.1 organics. Texture fine earthy. Note, this sample was taken about 10 meters north of 87BBR-003. Ele. roughly same as 87BBR-003. |
| 87BNL-004 | In this stream, the silt development was very poor. At the time this sample was taken, there was a very low volume of water in creek. This creek was probably a tributary to the main creek - that the three preceding samples were taken on. Organic content estimated at 40.1. to 60.1. Ele. 978 meters. |
| 87BNR-005 | Sampled outcrop material just south of creek. Red rusty staining was present on rock material. The rock was probably of volcanic origin. This sample contained about 2.1.-4.1. hematite. Ele. 1,160 meters. |
| 87BNR-006 | Sampled a rusty shear zone along the south side of creek. This sample was taken below a system of tight water falls - maybe due to faulting. Rocks probably of volcanic origin. The soil present was also very rusty in appearance. Note, there was no obvious mineralization here. Ele. 4,092 ft. |

| | |
|---|---|
| 87BNR-007 | Sampled a rusty shear zone with a width of about 50 cm to 60 cm. The surrounding rock material was probably of volcanic origin. Also, yellow rusty staining was present. Minute quantities of pyrite specks were present (<<1%). This sample was taken at the base of waterfall on north side of creek. Ele. 1,100 meters. |
| 87BNR-008 | This sample was taken along the base of the major cliff belts where the waterfalls were. These rocks were of volcanic origin and covered with dark rusty staining. Strong shearing appeared to be evident although there was no apparent sulfides. Note, sample was taken on north side of creek. Ele. 1,120 meters. |
| 87BNR-009 | Rocks covered with rusty stain and probably of volcanic origin. Small quantities of hematite were present in veins approx. 2.1. Note sample was taken about two meters down-stream from 87BNR-008 on the same side of creek. Ele. see previous sample. |
| 87BNR-010 | Fine silty material mixed with coarser material such as pebbles. |
| 87BNR-011 | Outcrop; shear area, volcanic, rusty and fractured traces of pyrite and hematite. |
| 87BNR-012 | Outcrop; coarse grained granitic, disseminated pyrite 1.1. |
| 87BNR-013 | Silts. |
| 87BNR-014 | Outcrop; andesitic blue-grey with 2 cm wide quartz vein 2.1 pyrite associated with vein. |
| 87BNR-015 | Outcrop; dike granitic, weathered, rusty, disseminated pyrite (.5 - 1%) |
| 87BNR-016 | Outcrop; blue-grey volcanic or andesitic, rusty fractures, large clusters of pyrite embedded. |
| 87BNR-017 | Outcrop; quartz vein 1" width, massive pyrites (70%) host rocks, blue-grey volcanics. |
| 87BNR-018 | Outcrop; granitic with disseminated pyrites. |

# APPENDIX VII

## Statement of Costs

## STATEMENT OF COSTS

**BRENWEST MINING LTD.**
**Projects 87BC031 and 87BC046**

| | | |
|---|---|---|
| Personnel | | |
| A. Smallwood, Project Manager | | |
| 21.0 days @ $250.00/day | $5,250.00 | |
| G. King, Geologist | | |
| 29.0 days @ $275.00/day | 7,975.00 | |
| D. Collins, Ph.D. Senior Geologist | | |
| 3.0 days @ $375.00/day | 1,125.00 | |
| G. Mowatt, Technician | | |
| 14.0 days @ $200.00/day | 2,800.00 | |
| J. McCaffrey, Prospector | | |
| 14.0 days @ $250.00/day | 3,500.00 | |
| R. Ney, Technician | | |
| 11.0 days @ $200.00/day | 2,200.00 | |
| J. Shields, Cook | | |
| 19.0 days @ $200.00/day | 3,800.00 | |
| | | $26,650.00 |
| Supervision, J.P. Sorbara | | |
| 3.0 days @ $400.00/day | | 1,200.00 |
| Project Preparation | | 2,000.00 |
| Mobilization/Demobilization | | 3,200.00 |
| Geochemistry | | |
| 53 rocks - 6 element ICP FA AU (rush) | | |
| @ $21.38/sample | $1,133.00 | |
| 19 rocks - 6 element ICP FA Au | | |
| @ $14.25/sample | 85.50 | |
| 38 rocks - 6 element ICP AA Au (rush) | | |
| @ $18.00/sample | 684.00 | |
| 13 silts - 6 element ICP AA Au | | |
| @ $14.85/sample | 193.05 | |
| 186 soils - 6 element ICP AA Au | | |
| @ $ 9.90/sample | 1,841.40 | |
| 24 silts - 6 element ICP AA Au (rush) | | |
| @ $14.85/sample | 356.40 | |
| 3 pulps - Au @ $8.00/sample | 24.00 | |
| Freight | 55.70 | |
| | | 4,373.05 |
| Statistical Analysis | | 97.05 |

| | | |
|---|---|---|
| Geophysics - 10 km @ $400.00/km<br>VLF-EM Survey (EDA Omni Plus System-2 Channels)<br>Magnetometer Survey (EDA Omni Plus with base station; Total Field and Vertical Gradient Magnetics) | | 4,000.00 |
| Domicile and Camp Rental<br>111 man days @ $73.07 | | 8,110.00 |
| Supplies, Fuel | | 2,624.00 |
| Freight | | 500.00 |
| Expediting and Communications | | 500.00 |
| Radio Rental | | 500.00 |
| Air Support - Helicopter 18.4 hours | $10,805.00 | |
| - Fixed Wing | 979.00 | |
| | | 11,784.00 |
| Office Overhead | | 2,034.00 |
| Report Compilation and Drafting | | 4,000.00 |
| Project Management | | 12,850.00 |
| | **TOTAL:** | **$84,423.00** |

OMNI-PLUS  Tie-line MAG/VLF  Ser #208035
VLF DATA
Date 28 SEP 87
Operator:  5001
Records:  196
Bat:  15.7 Volt    Lithium:  3.46 Volt
Last time update:  9/28  8:04:00
Start  of  print:  9/28 17:30:39

| | | | | |
|---|---|---|---|---|
| #1 | 66.9 | -7.2 | 2604. | 1.1 |
| #2 | 67.2 | -7.5 | 2622. | 0.9 |
| #3 | 69.8 | -1.3 | 2655. | 0.7 |
| #4 | 69.7 | -1.5 | 2660. | 0.7 |
| #5 | 69.4 | -1.1 | 2552. | 0.8 |
| #6 | 69.6 | -0.7 | 2548. | 0.8 |

Line  0+40 W  Date 28 SEP 87  23.4  #7

| POSITION | I/P | QUAD | T.FLD | TILT CULT |
|---|---|---|---|---|
| 0+10 N | 46.3 | -11.0 | 20.00 | 6.9 |

Line  0+40 W  Date 28 SEP 87  23.4  #8

| POSITION | I/P | QUAD | T.FLD | TILT CULT |
|---|---|---|---|---|
| 0+00 N | 44.6 | -13.1 | 19.73 | 6.9 |
| 0+10 N | 44.4 | -14.1 | 19.77 | 5.9 |
| 0+20 N | 37.4 | -10.9 | 20.53 | 6.9 |
| 0+30 N | 18.4 | -9.3 | 20.68 | 5.9 |
| 0+40 N | 29.0 | -11.9 | 19.91 | 5.9 |
| 0+50 N | 35.4 | -13.1 | 19.86 | 3.9 |
| 0+60 N | 46.3 | -13.8 | 18.97 | 5.9 |
| 0+70 N | 20.5 | -12.5 | 19.96 | 4.9 |
| 0+80 N | 33.4 | -12.8 | 20.14 | 4.9 |
| 0+90 N | 18.8 | -9.4 | 19.59 | 4.9 |
| 1+00 N | 24.3 | -12.9 | 20.13 | 4.9 |
| 1+10 N | 25.4 | -11.6 | 19.67 | 4.9 |
| 1+20 N | 26.1 | -10.8 | 19.08 | 2.9 |
| 1+30 N | 37.8 | -12.4 | 19.51 | 5.9 |
| 1+40 N | 39.7 | -12.4 | 20.01 | 3.9 |
| 1+50 N | 38.1 | -13.1 | 19.63 | 5.9 |
| 1+60 N | 44.6 | -12.3 | 19.40 | 5.9 |
| 1+70 N | 36.7 | -12.6 | 19.90 | 5.9 |
| 1+80 N | 38.8 | -11.6 | 20.25 | 5.9 |
| 1+90 N | 39.8 | -12.9 | 19.42 | 5.9 |
| 2+00 N | 26.9 | -11.7 | 20.11 | 5.9 |
| 2+10 N | 20.1 | -10.4 | 19.83 | 5.7 |
| 2+20 N | 35.2 | -14.9 | 20.60 | 3.9 |
| 2+30 N | 44.9 | -14.2 | 19.67 | 5.9 |
| 2+40 N | 48.8 | -14.5 | 19.61 | 5.6 |

Line  0+60 W  Date 28 SEP 87  23.4  #33

| POSITION | I/P | QUAD | T.FLD | TILT CULT |
|---|---|---|---|---|
| 2+40 N | 35.8 | -10.0 | 19.36 | 5.9 |
| 2+30 N | 50.0 | -11.7 | 20.47 | 5.9 |
| 2+20 N | 37.0 | -11.4 | 20.88 | 4.9 |
| 2+10 N | 30.4 | -9.8 | 20.95 | 3.9 |
| 2+00 N | 25.9 | -10.0 | 20.17 | 2.9 |

| | | | | | |
|---|---|---|---|---|---|
| 1+90 | N | 32.4 | -10.0 | 19.43 | 2.9 |
| 1+80 | N | 41.0 | -10.7 | 19.71 | 5.9 |
| 1+70 | N | 18.1 | -9.6 | 20.49 | 2.9 |
| 1+60 | N | 31.8 | -10.0 | 19.92 | 4.9 |
| 1+50 | N | 41.7 | -10.8 | 19.73 | 3.9 |
| 1+40 | N | 49.2 | -12.4 | 19.18 | 5.9 |
| 1+30 | N | 39.6 | -10.0 | 20.02 | 5.9 |
| 1+20 | N | 25.0 | -9.6 | 20.39 | 4.9 |
| 1+10 | N | 33.4 | -9.5 | 21.49 | 4.9 |
| 1+00 | N | 47.6 | -11.5 | 20.41 | 3.9 |
| 0+90 | N | 29.7 | -10.6 | 20.58 | 4.9 |
| 0+80 | N | 36.1 | -9.3 | 20.82 | 4.9 |
| 0+70 | N | 41.4 | -11.0 | 21.14 | 3.9 |
| 0+60 | N | 14.2 | -8.7 | 20.89 | 3.9 |
| 0+50 | N | 23.5 | -7.9 | 20.78 | 4.9 |
| 0+40 | N | 0.5 | -6.8 | 21.01 | 3.9 |
| 0+30 | N | 33.3 | -8.3 | 20.46 | 5.9 |
| 0+20 | N | 43.6 | -9.1 | 20.24 | 5.9 |
| 0+10 | N | 39.3 | -9.2 | 19.30 | 4.9 |
| 0+00 | N | 20.9 | -8.6 | 21.50 | 4.9 |

Line 0+80 W Date 28 SEP 87 23.4 #58

| POSITION | | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|---|
| 0+00 | N | 18.3 | -9.9 | 19.68 | 3.9 | |
| 0+10 | N | 27.9 | -10.0 | 19.36 | 4.9 | |
| 0+20 | N | 4.9 | -7.4 | 21.04 | 2.9 | |
| 0+30 | N | 28.6 | -12.8 | 18.69 | 3.9 | |
| 0+40 | N | 31.3 | -10.6 | 18.60 | 4.9 | |
| 0+50 | N | 35.2 | -10.4 | 19.80 | 4.9 | |
| 0+60 | N | 14.3 | -7.1 | 20.14 | 4.9 | |
| 0+70 | N | 7.2 | -9.8 | 20.38 | 3.9 | |
| 0+80 | N | 22.8 | -8.6 | 19.08 | 2.9 | |
| 0+90 | N | 27.2 | -10.8 | 18.78 | 4.9 | |
| 1+00 | N | 9.6 | -8.1 | 19.50 | 2.9 | |
| 1+10 | N | 25.6 | -9.7 | 20.07 | 4.9 | |
| 1+20 | N | 30.7 | -8.9 | 20.25 | 4.9 | |
| 1+30 | N | 12.4 | -9.2 | 20.19 | 2.9 | |
| 1+40 | N | 29.1 | -8.7 | 19.70 | 4.9 | |
| 1+50 | N | 17.6 | -9.1 | 19.41 | 3.3 | |
| 1+60 | N | 37.6 | -14.0 | 19.47 | 3.9 | |
| 1+70 | N | 27.7 | -10.7 | 19.98 | 3.9 | |
| 1+80 | N | 34.2 | -10.6 | 18.96 | 3.9 | |
| 1+90 | N | 39.4 | -12.3 | 18.87 | 4.9 | |
| 2+00 | N | 30.1 | -9.2 | 18.91 | 4.3 | |
| 2+10 | N | 35.0 | -12.8 | 19.48 | 3.4 | |
| 2+20 | N | 18.1 | -9.1 | 19.87 | 3.7 | |
| 2+30 | N | 9.9 | -7.6 | 19.99 | 1.6 | |
| 2+40 | N | 18.5 | -8.4 | 19.37 | 4.4 | |

Line 0+20 W Date 28 SEP 87 23.4 #83

| POSITION | | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|---|
| 2+40 | N | 46.2 | -8.4 | 20.21 | 5.9 | |
| 2+30 | N | 33.6 | -8.5 | 21.74 | 4.9 | |
| 2+20 | N | 40.1 | -9.2 | 20.99 | 4.9 | |
| 2+10 | N | 37.4 | -9.7 | 22.36 | 5.9 | |
| 2+00 | N | 39.1 | -9.4 | 21.18 | 3.9 | |
| 1+90 | N | 17.1 | -7.8 | 20.94 | 2.9 | |
| 1+80 | N | 32.1 | -7.5 | 21.19 | 3.9 | |
| 1+70 | N | 40.0 | -7.9 | 21.04 | 5.9 | |
| 1+60 | N | 48.6 | -8.9 | 21.39 | 3.9 | |
| 1+50 | N | 36.4 | -9.5 | 22.47 | 3.9 | |
| 1+40 | N | 59.1 | -9.2 | 20.39 | 5.9 | |
| 1+30 | N | 43.1 | -10.5 | 20.67 | 4.9 | |
| 1+20 | N | 44.9 | -10.4 | 21.35 | 3.9 | |
| 1+10 | N | 44.1 | -8.2 | 22.35 | 5.9 | |
| 1+00 | N | 43.7 | -9.5 | 22.20 | 4.9 | |

| | | | | | |
|---|---|---|---|---|---|
| 0+90 | N | 51.1 | -9.4 | 21.97 | 5.9 |
| 0+80 | N | 33.4 | -8.8 | 22.43 | 5.9 |
| 0+70 | N | 40.7 | -9.5 | 22.47 | 5.9 |
| 0+60 | N | 33.0 | -9.1 | 21.30 | 5.9 |
| 0+50 | N | 41.6 | -9.9 | 21.38 | 5.9 |
| 0+40 | N | 32.7 | -8.6 | 21.55 | 5.9 |
| 0+30 | N | 51.0 | -9.6 | 22.09 | 5.9 |
| 0+20 | N | 36.7 | -9.0 | 21.37 | 3.9 |
| 0+10 | N | 16.0 | -7.8 | 21.10 | 4.4 |
| 0+00 | N | 14.4 | -8.4 | 20.84 | 2.9 |
| 0+10 | S | 27.2 | -9.7 | 21.39 | 4.9 |
| 0+20 | S | 28.7 | -9.4 | 22.47 | 4.9 |

Line 0+00 E Date 28 SEP 87 23.4 #110

| POSITION | | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|---|
| 0+00 | N | 25.1 | -10.0 | 21.60 | 4.9 | |
| 0+10 | N | 28.4 | -9.9 | 21.06 | 3.9 | |
| 0+20 | N | 27.4 | -8.2 | 19.78 | 3.9 | |
| 0+30 | N | 15.3 | -8.0 | 21.31 | 2.9 | |
| 0+40 | N | 29.6 | -10.3 | 20.52 | 2.9 | |
| 0+50 | N | 26.4 | -8.2 | 19.93 | 3.9 | |
| 0+60 | N | 13.8 | -8.2 | 20.73 | 2.9 | |
| 0+70 | N | 23.9 | -7.9 | 20.92 | 2.9 | |
| 0+80 | N | 26.2 | -10.9 | 20.00 | 3.9 | |
| 0+90 | N | 15.7 | -7.8 | 21.75 | 2.9 | |
| 1+00 | N | 15.6 | -8.1 | 21.15 | 1.9 | |
| 1+10 | N | 33.8 | -12.0 | 20.04 | 3.3 | |
| 1+20 | N | 5.5 | -8.8 | 22.00 | 1.5 | |
| 1+30 | N | 11.7 | -9.5 | 20.29 | 3.4 | |
| 1+40 | N | 5.1 | -8.1 | 21.84 | 1.9 | |
| 1+50 | N | 29.1 | -11.2 | 20.54 | 4.9 | |
| 1+60 | N | 21.9 | -11.2 | 20.01 | 3.9 | |
| 1+70 | N | 29.9 | -10.6 | 19.75 | 4.8 | |
| 1+80 | N | 39.8 | -13.6 | 20.07 | 4.7 | |
| 1+90 | N | 39.9 | -13.8 | 19.60 | 5.4 | |
| 2+00 | N | 39.5 | -12.9 | 19.25 | 5.4 | |
| 2+10 | N | 36.9 | -13.8 | 19.99 | 5.9 | |
| 2+20 | N | 30.5 | -13.8 | 20.36 | 3.9 | |
| 2+30 | N | 36.6 | -11.0 | 18.90 | 2.2 | |
| 2+40 | N | 24.8 | -10.4 | 20.72 | 3.6 | |

Line 0+20 E Date 28 SEP 87 23.4 #135

| POSITION | | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|---|
| 2+40 | N | 38.8 | -10.3 | 21.81 | 4.9 | |
| 2+30 | N | 54.5 | -8.8 | 21.54 | 4.9 | |
| 2+20 | N | 49.4 | -8.5 | 20.81 | 5.9 | |
| 2+10 | N | 39.6 | -5.8 | 20.71 | 4.9 | |
| 2+00 | N | 54.0 | -6.7 | 21.06 | 4.9 | |
| 1+90 | N | 53.0 | -6.4 | 20.99 | 4.9 | |
| 1+80 | N | 36.5 | -6.2 | 21.56 | 4.9 | |
| 1+70 | N | 31.5 | -7.0 | 21.02 | 3.9 | |
| 1+60 | N | 50.5 | -6.2 | 21.31 | 5.9 | |
| 1+50 | N | 43.8 | -7.5 | 21.11 | 4.9 | |
| 1+40 | N | 44.0 | -7.1 | 21.12 | 4.9 | |
| 1+30 | N | 42.4 | -6.1 | 20.69 | 4.9 | |
| 1+20 | N | 34.2 | -6.8 | 21.79 | 4.9 | |
| 1+10 | N | 31.4 | -6.3 | 20.79 | 3.9 | |
| 1+00 | N | 38.9 | -7.0 | 21.22 | 4.9 | |
| 0+90 | N | 36.0 | -7.2 | 22.25 | 5.9 | |
| 0+80 | N | 32.9 | -6.9 | 21.29 | 4.9 | |
| 0+70 | N | 21.3 | -6.5 | 21.25 | 3.9 | |
| 0+60 | N | 32.1 | -7.8 | 22.18 | 3.9 | |
| 0+50 | N | 29.4 | -7.2 | 20.83 | 4.9 | |
| 0+40 | N | 32.8 | -7.9 | 21.85 | 4.9 | |
| 0+30 | N | 19.4 | -6.2 | 22.77 | 3.9 | |

| | | | | | |
|---|---|---|---|---|---|
| 0+20 | N | 38.8 | -8.4 | 22.47 | 5.9 |
| 0+10 | N | 26.1 | -8.4 | 22.33 | 3.9 |
| 0+00 | N | 28.7 | -8.1 | 22.12 | 3.9 |
| 0+10 | S | 45.3 | -11.6 | 21.68 | 6.9 |
| 0+20 | S | 31.5 | -9.1 | 22.99 | 3.9 |
| 0+30 | S | 48.7 | -8.6 | 22.03 | 5.9 |
| 0+40 | S | 43.3 | -9.7 | 21.53 | 5.9 |
| 0+50 | S | 36.8 | -9.4 | 22.54 | 4.9 |
| 0+60 | S | 44.0 | -9.7 | 22.12 | 5.9 |
| 0+70 | S | 42.0 | -9.2 | 21.90 | 4.9 |
| 0+80 | S | 32.6 | -8.5 | 22.91 | 5.9 |
| 0+90 | S | 25.2 | -7.8 | 22.45 | 2.9 |
| 1+00 | S | 32.7 | -8.5 | 22.49 | 4.9 |
| 1+10 | S | 45.1 | -9.2 | 21.26 | 4.9 |
| 1+20 | S | 46.1 | -8.7 | 22.05 | 5.9 |
| 1+30 | S | 30.8 | -7.1 | 22.72 | 4.9 |
| 1+40 | S | 37.3 | -7.4 | 22.52 | 5.9 |
| 1+50 | S | 34.6 | -7.1 | 21.27 | 5.9 |
| 1+60 | S | 36.4 | -8.2 | 21.11 | 4.9 |

Line 0+00 E Date 28 SEP 87 23.4 #176

| POSITION | | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|---|
| 2+10 | S | 35.9 | -4.7 | 20.04 | 5.9 | |
| 2+00 | S | 17.1 | -5.5 | 21.48 | 2.9 | |
| 1+90 | S | 29.9 | -4.3 | 20.47 | 2.9 | |
| 1+80 | S | 10.1 | -8.0 | 21.11 | 4.9 | |
| 1+70 | S | 23.6 | -6.2 | 21.45 | 5.9 | |
| 1+60 | S | 24.7 | -2.8 | 20.15 | 3.9 | |
| 1+50 | S | 20.3 | -7.5 | 20.47 | 2.9 | |
| 1+40 | S | 24.7 | -6.8 | 20.54 | 4.9 | |
| 1+30 | S | 17.8 | -7.1 | 20.47 | 3.9 | |
| 1+20 | S | 26.9 | -8.2 | 20.13 | 4.9 | |
| 1+10 | S | 29.8 | -8.0 | 19.99 | 3.9 | |
| 1+00 | S | 33.9 | -9.5 | 19.60 | 4.9 | |
| 0+90 | S | 27.1 | -6.6 | 20.22 | 4.9 | |
| 0+80 | S | 26.4 | -8.3 | 19.30 | 4.5 | |
| 0+70 | S | 16.2 | -7.5 | 20.96 | 3.9 | |
| 0+60 | S | 24.3 | -11.2 | 20.46 | 4.9 | |
| 0+50 | S | 26.6 | -11.1 | 20.23 | 5.9 | |
| 0+40 | S | 13.8 | -6.7 | 20.45 | 4.5 | |
| 0+30 | S | 13.8 | -8.6 | 20.33 | 4.5 | |
| 0+20 | S | 5.3 | -8.8 | 21.67 | 3.6 | |
| 0+10 | S | 13.9 | -8.7 | 20.71 | 4.9 | |

EOF

OMNI-PLUS Tie-line MAG/VLF Ser #208035
VLF DATA
Date 1 OCT 87
Operator: 5001
Records: 343
Bat: 15.6 Volt Lithium: 3.46 Volt
Last time update: 10/01 8:05:00
Start of print: 10/01 18:18:26

| | | | | |
|---|---|---|---|---|
| #1 | 68.5 | -3.4 | 2564. | 0.8 |

Line 0+40 E Date 1 OCT 87 23.4 #2

| POSITION | | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|---|
| 0+00 | N | 42.9 | -8.9 | 18.55 | 2.9 | |

Line 0+40 E Date 1 OCT 87 23.4 #3

| POSITION | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|
| 0+10 N | 30.7 | -8.6 | 18.54 | 1.5 | |
| 0+20 N | 30.6 | -8.1 | 19.87 | 2.9 | |
| 0+30 N | 16.1 | -7.6 | 19.48 | 1.9 | |
| 0+40 N | 50.4 | -9.3 | 18.13 | 3.9 | |
| 0+50 N | 23.6 | -8.6 | 19.67 | 3.5 | |
| 0+60 N | 30.7 | -9.0 | 18.65 | 2.8 | |
| 0+70 N | 25.7 | -8.1 | 19.03 | 1.9 | |
| 0+80 N | 20.6 | -7.4 | 18.90 | 1.9 | |
| 0+90 N | 40.2 | -9.8 | 18.49 | 2.9 | |
| 1+00 N | 37.8 | -10.1 | 18.37 | 2.9 | |
| 1+10 N | 29.4 | -8.4 | 18.60 | 1.9 | |
| 1+20 N | 25.0 | -10.5 | 18.68 | 1.9 | |
| 1+30 N | 19.1 | -9.3 | 18.55 | 1.9 | |
| 1+40 N | 31.7 | -10.5 | 18.54 | 2.9 | |
| 1+50 N | 51.0 | -12.4 | 18.18 | 1.6 | |
| 1+60 N | 42.7 | -11.4 | 18.51 | 1.9 | |
| 1+70 N | 53.4 | -13.7 | 18.16 | 1.2 | |

Line 0+60 E Date 1 OCT 87 23.4 #20

| POSITION | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|
| 2+00 N | 43.6 | -9.7 | 19.93 | 1.9 | |
| 1+90 N | 43.7 | -10.6 | 19.34 | 4.9 | |
| 1+80 N | 10.8 | -6.0 | 19.94 | 1.9 | |
| 1+70 N | 52.5 | -9.3 | 20.10 | 2.9 | |
| 1+60 N | 70.7 | -10.7 | 21.05 | 2.9 | |
| 1+50 N | 41.4 | -7.9 | 19.67 | 2.9 | |
| 1+40 N | 31.3 | -7.6 | 20.18 | 4.9 | |
| 1+30 N | 31.2 | -8.5 | 19.96 | 1.9 | |
| 1+20 N | 29.3 | -7.2 | 19.86 | 3.9 | |
| 1+10 N | 28.4 | -7.5 | 18.61 | 1.9 | |
| 1+00 N | 23.8 | -7.3 | 20.01 | 1.9 | |
| 0+90 N | 19.4 | -6.0 | 19.15 | 1.9 | |
| 0+80 N | 31.9 | -7.8 | 19.11 | 3.9 | |
| 0+70 N | 22.2 | -6.3 | 19.35 | 3.9 | |
| 0+60 N | 18.1 | -5.0 | 19.14 | 3.9 | |
| 0+50 N | 20.6 | -5.5 | 19.34 | 2.8 | |
| 0+40 N | 21.4 | -5.7 | 19.46 | 4.9 | |
| 0+30 N | 22.0 | -7.1 | 19.91 | 3.9 | |
| 0+20 N | 11.6 | -5.7 | 18.86 | 1.9 | |
| 0+10 N | 28.8 | -7.9 | 19.98 | 1.9 | |
| 0+00 N | 30.2 | -8.1 | 19.50 | 2.9 | |
| 0+10 S | 45.7 | -9.7 | 20.95 | 2.9 | |
| 0+20 S | 51.8 | -8.6 | 20.67 | 3.9 | |
| 0+30 S | 45.1 | -10.1 | 19.29 | 3.9 | |
| 0+40 S | 47.7 | -11.3 | 19.89 | 1.9 | |
| 0+50 S | 43.8 | -9.4 | 19.28 | 2.9 | |
| 0+60 S | 48.2 | -9.8 | 19.99 | 2.9 | |
| 0+70 S | 46.2 | -10.1 | 19.62 | 3.9 | |
| 0+80 S | 46.7 | -9.9 | 20.46 | 2.9 | |
| 0+90 S | 35.8 | -10.0 | 20.63 | 3.9 | |
| 1+00 S | 48.4 | -9.9 | 19.78 | 4.9 | |
| 1+10 S | 39.0 | -9.5 | 19.05 | 1.9 | |
| 1+20 S | 38.5 | -9.3 | 20.62 | 4.9 | |
| 1+30 S | 65.7 | -11.6 | 20.51 | 4.9 | |
| 1+40 S | 43.3 | -10.6 | 19.79 | 3.9 | |
| 1+50 S | 39.6 | -10.0 | 19.34 | 3.9 | |
| 1+60 S | 51.2 | -9.8 | 20.05 | 3.9 | |

Line 1+00 E Date 1 OCT 87 23.4 #57

| POSITION | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|
| 1+60 S | 51.7 | -9.1 | 19.05 | 3.9 | |
| 1+50 S | 53.8 | -6.9 | 19.74 | 2.9 | |
| 1+40 S | 36.3 | -8.3 | 19.28 | 2.9 | |
| 1+30 S | 35.1 | -11.1 | 20.25 | 4.9 | |
| 1+20 S | 32.7 | -11.0 | 19.89 | 3.9 | |
| 1+10 S | 34.2 | -11.2 | 19.95 | 4.9 | |
| 1+00 S | 31.6 | -8.2 | 19.33 | 1.9 | |
| 0+90 S | 22.8 | -8.4 | 19.23 | 2.2 | |
| 0+80 S | 53.2 | -9.0 | 18.89 | 4.9 | |
| 0+70 S | 44.6 | -8.5 | 19.57 | 3.7 | |
| 0+60 S | 52.1 | -6.4 | 19.26 | 4.9 | |
| 0+50 S | 36.8 | -10.0 | 20.55 | 3.9 | |
| 0+40 S | 42.4 | -7.1 | 21.26 | 3.9 | |
| 0+30 S | 49.3 | -10.9 | 19.82 | 1.3 | |
| 0+20 S | 26.7 | -9.2 | 20.81 | 2.9 | |
| 0+10 S | 27.6 | -10.4 | 20.18 | 1.9 | |

Line 0+80 E Date 1 OCT 87 23.4 #73

| POSITION | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|
| 0+20 N | 49.7 | -10.7 | 21.36 | 2.9 | |
| 0+10 N | 34.7 | -8.8 | 22.01 | 1.9 | |
| 0+00 N | 39.5 | -8.8 | 20.40 | 2.9 | |
| 0+10 S | 47.7 | -8.5 | 21.17 | 2.9 | |
| 0+20 S | 29.6 | -9.5 | 20.76 | 3.9 | |
| 0+30 S | 46.4 | -10.3 | 20.82 | 3.9 | |
| 0+40 S | 49.4 | -9.6 | 21.72 | 3.9 | |
| 0+50 S | 43.3 | -10.2 | 20.84 | 4.9 | |
| 0+60 S | 38.5 | -9.4 | 20.83 | 2.9 | |
| 0+70 S | 44.2 | -11.6 | 20.29 | 3.9 | |
| 0+80 S | 30.4 | -10.0 | 21.01 | 3.9 | |
| 0+90 S | 29.5 | -10.7 | 20.06 | 3.9 | |
| 1+00 S | 45.0 | -9.7 | 20.76 | 4.7 | |
| 1+10 S | 44.4 | -10.6 | 20.38 | 3.4 | |
| 1+20 S | 37.2 | -10.0 | 20.70 | 3.9 | |
| 1+30 S | 41.5 | -10.5 | 20.69 | 3.9 | |
| 1+40 S | 41.0 | -10.8 | 21.07 | 3.9 | |
| 1+50 S | 48.7 | -12.3 | 20.21 | 3.9 | |
| 1+60 S | 50.0 | -9.7 | 20.58 | 1.9 | |
| 1+70 S | 45.7 | -10.2 | 20.64 | 3.9 | |
| 1+80 S | 55.7 | -9.8 | 20.95 | 5.9 | |
| 1+90 S | 50.3 | -11.4 | 19.80 | 3.6 | |
| 2+00 S | 47.8 | -11.8 | 20.48 | 3.9 | |
| 2+10 S | 51.2 | -12.5 | 19.73 | 4.9 | |
| 2+20 S | 60.0 | -11.4 | 21.23 | 2.9 | |
| 2+30 S | 44.7 | -10.3 | 20.91 | 3.9 | |
| 2+40 S | 50.1 | -11.3 | 19.94 | 3.9 | |
| 2+50 S | 44.5 | -10.7 | 20.05 | 3.9 | |
| 2+60 S | 54.8 | -10.7 | 21.14 | 4.9 | |
| 2+70 S | 50.1 | -10.3 | 21.11 | 4.9 | |
| 2+80 S | 49.4 | -11.2 | 20.68 | 5.9 | |
| 2+90 S | 42.0 | -10.2 | 20.80 | 4.9 | |
| 3+00 S | 42.4 | -11.3 | 21.22 | 4.9 | |
| 3+10 S | 37.8 | -9.5 | 21.26 | 4.9 | |
| 3+20 S | 39.6 | -8.2 | 21.36 | 5.9 | |
| 3+30 S | 31.9 | -9.8 | 21.15 | 4.9 | |
| 3+40 S | 40.9 | -9.9 | 20.50 | 2.9 | |
| 3+50 S | 42.0 | -10.6 | 20.11 | 4.6 | |
| 3+60 S | 49.4 | -9.5 | 21.23 | 4.9 | |
| 3+70 S | 50.3 | -12.2 | 21.20 | 3.9 | |
| 3+80 S | 45.8 | -11.6 | 19.42 | 2.3 | |
| 3+90 S | 42.4 | -10.8 | 20.43 | 3.8 | |
| 4+00 S | 41.7 | -9.7 | 20.11 | 3.9 | |
| 4+10 S | 43.6 | -9.4 | 20.24 | 3.9 | |
| 4+20 S | 45.6 | -11.4 | 18.87 | 3.4 | |

Line 0+40 E Date 1 OCT 87 23.4 #118

| POSITION | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|
| 4+20 S | 37.0 | -9.6 | 20.79 | 3.9 | |
| 4+10 S | 23.3 | -10.4 | 21.12 | 2.9 | |
| 4+00 S | 28.8 | -10.5 | 20.28 | 3.9 | |
| 3+90 S | 35.3 | -11.0 | 19.49 | 3.4 | |
| 3+80 S | 12.7 | -8.3 | 21.97 | 1.9 | |
| 3+70 S | 36.7 | -9.5 | 21.39 | 2.9 | |
| 3+60 S | 43.9 | -11.7 | 20.04 | 3.9 | |
| 3+50 S | 27.5 | -10.3 | 21.24 | 2.5 | |
| 3+40 S | 25.1 | -10.3 | 20.33 | 3.4 | |
| 3+30 S | 46.4 | -7.7 | 19.78 | 4.4 | |
| 3+20 S | 34.8 | -10.4 | 18.93 | 2.9 | |
| 3+10 S | 43.9 | -8.5 | 20.19 | 4.9 | |
| 3+00 S | 27.7 | -9.5 | 20.30 | 2.9 | |
| 2+90 S | 29.6 | -9.6 | 20.07 | 1.9 | |
| 2+80 S | 47.5 | -10.4 | 20.95 | 4.9 | |
| 2+70 S | 28.6 | -8.3 | 20.61 | 1.9 | |
| 2+60 S | 26.9 | -9.6 | 20.88 | 3.4 | |
| 2+50 S | 31.3 | -8.6 | 20.62 | 2.3 | |
| 2+40 S | 51.7 | -12.1 | 20.45 | 3.9 | |
| 2+30 S | 47.5 | -12.0 | 20.23 | 3.3 | |
| 2+20 S | 51.7 | -11.5 | 20.42 | 3.5 | |
| 2+10 S | 37.5 | -9.2 | 20.64 | 2.9 | |
| 2+00 S | 25.6 | -9.7 | 20.87 | 1.4 | |
| 1+90 S | 12.7 | -8.0 | 21.30 | 1.9 | |
| 1+80 S | 27.4 | -10.2 | 19.53 | 4.4 | |
| 1+70 S | 41.6 | -10.7 | 20.34 | 4.5 | |
| 1+60 S | 13.5 | -8.5 | 21.56 | 3.3 | |
| 1+50 S | 42.4 | -11.7 | 20.32 | 3.9 | |
| 1+40 S | 26.5 | -9.9 | 20.82 | 1.5 | |
| 1+30 S | 22.1 | -9.1 | 21.75 | 2.9 | |
| 1+20 S | 34.9 | -6.8 | 20.22 | 4.6 | |
| 1+10 S | 30.3 | -8.6 | 21.04 | 3.9 | |
| 1+00 S | 39.9 | -9.0 | 21.12 | 5.9 | |
| 0+90 S | 25.9 | -9.5 | 20.19 | 4.3 | |
| 0+80 S | 31.0 | -11.5 | 20.33 | 1.7 | |
| 0+70 S | 18.5 | -8.7 | 20.18 | 1.9 | |
| 0+60 S | 30.3 | -8.1 | 20.90 | 3.9 | |
| 0+50 S | 28.9 | -8.5 | 19.80 | 4.5 | |
| 0+40 S | 21.5 | -10.1 | 20.43 | 2.5 | |
| 0+30 S | 30.3 | -8.8 | 19.73 | 4.4 | |
| 0+20 S | 21.6 | -10.6 | 19.45 | 2.3 | |
| 0+10 S | 21.6 | -10.6 | 19.90 | 4.4 | |

Line 0+40 W Date 1 OCT 87 23.4 #160

| POSITION | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|
| 0+10 S | 51.2 | -8.6 | 20.53 | 5.9 | |
| 0+20 S | 50.4 | -9.5 | 20.68 | 5.9 | |
| 0+30 S | 44.7 | -9.7 | 21.45 | 5.9 | |
| 0+40 S | 39.2 | -10.9 | 20.01 | 5.9 | |
| 0+50 S | 37.2 | -9.9 | 21.28 | 5.9 | |
| 0+60 S | 41.5 | -12.2 | 21.02 | 5.2 | |
| 0+70 S | 43.3 | -9.0 | 22.38 | 3.9 | |
| 0+80 S | 37.8 | -10.4 | 21.01 | 4.9 | |
| 0+90 S | 42.2 | -10.8 | 21.33 | 2.9 | |
| 1+00 S | 35.6 | -9.9 | 21.62 | 2.9 | |
| 1+10 S | 40.7 | -9.1 | 22.19 | 3.9 | |
| 1+20 S | 37.0 | -9.2 | 21.06 | 3.9 | |
| 1+30 S | 30.5 | -10.3 | 21.54 | 1.9 | |
| 1+40 S | 41.6 | -10.1 | 20.95 | 2.9 | |
| 1+50 S | 33.0 | -8.8 | 21.68 | 1.9 | |
| 1+60 S | 27.0 | -9.3 | 21.61 | 3.9 | |
| 1+70 S | 40.2 | -10.4 | 21.19 | 5.9 | |

| | | | | | |
|---|---|---|---|---|---|
| 1+80 S | 41.6 | -8.8 | 23.43 | 4.9 |
| 1+90 S | 48.0 | -8.8 | 22.61 | 5.7 |
| 2+00 S | 41.5 | -8.9 | 22.96 | 4.9 |
| 2+10 S | 32.7 | -9.2 | 22.87 | 3.6 |
| 2+20 S | 47.1 | -9.3 | 21.26 | 4.4 |
| 2+30 S | 37.5 | -9.3 | 21.89 | 4.6 |
| 2+40 S | 28.6 | -10.5 | 21.95 | 2.9 |

Line 0+80 W Date 1 OCT 87 23.4 #184

| POSITION | I/P | QUAD | T.FLD | TILT CULT |
|---|---|---|---|---|
| 2+40 S | 20.6 | -9.7 | 21.04 | 3.9 |
| 2+30 S | 28.5 | -8.0 | 19.79 | 4.5 |
| 2+20 S | 25.6 | -10.4 | 20.30 | 4.5 |
| 2+10 S | 17.5 | -12.5 | 20.76 | 2.3 |
| 2+00 S | 24.7 | -7.3 | 19.23 | 4.3 |
| 1+90 S | 10.4 | -11.1 | 20.70 | 1.3 |
| 1+80 S | 25.1 | -9.8 | 20.33 | 4.5 |
| 1+70 S | 7.0 | -9.7 | 20.42 | 2.4 |
| 1+60 S | 24.2 | -8.7 | 19.83 | 3.5 |
| 1+50 S | 28.5 | -9.5 | 19.61 | 4.5 |
| 1+40 S | 26.2 | -9.7 | 19.10 | 4.3 |
| 1+30 S | 27.6 | -8.0 | 19.91 | 3.3 |
| 1+20 S | 35.5 | -11.0 | 19.42 | 4.2 |
| 1+10 S | 29.8 | -9.4 | 19.33 | 3.7 |
| 1+00 S | 20.0 | -8.7 | 20.15 | 2.9 |
| 0+90 S | 28.9 | -11.0 | 18.91 | 4.6 |
| 0+80 S | 38.3 | -12.4 | 18.98 | 2.5 |
| 0+70 S | 25.4 | -9.9 | 19.68 | 5.6 |
| 0+60 S | 6.1 | -7.0 | 21.45 | 3.9 |
| 0+50 S | 33.8 | -8.0 | 19.04 | 3.6 |
| 0+40 S | 29.3 | -8.6 | 19.27 | 3.4 |
| 0+30 S | 19.8 | -10.7 | 19.81 | 3.6 |
| 0+20 S | 16.4 | -7.1 | 20.34 | 3.9 |
| 0+10 S | 25.7 | -9.9 | 20.14 | 4.9 |

Line 0+60 W Date 1 OCT 87 23.4 #208

| POSITION | I/P | QUAD | T.FLD | TILT CULT |
|---|---|---|---|---|
| 0+10 S | 42.6 | -7.2 | 21.75 | 4.9 |
| 0+20 S | 35.9 | -7.0 | 21.03 | 5.9 |
| 0+30 S | 37.1 | -7.6 | 21.23 | 5.6 |
| 0+40 S | 40.0 | -8.2 | 20.99 | 5.9 |
| 0+50 S | 22.0 | -6.6 | 21.18 | 3.9 |
| 0+60 S | 49.2 | -8.7 | 20.79 | 4.9 |
| 0+70 S | 24.7 | -7.5 | 21.28 | 5.9 |
| 0+80 S | 33.8 | -7.6 | 21.83 | 4.9 |
| 0+90 S | 31.1 | -7.8 | 21.76 | 4.9 |
| 1+00 S | 33.5 | -7.3 | 22.58 | 5.9 |
| 1+10 S | 38.9 | -7.4 | 22.27 | 5.8 |
| 1+20 S | 47.0 | -7.5 | 20.95 | 4.9 |
| 1+30 S | 49.5 | -9.1 | 20.86 | 5.9 |
| 1+40 S | 41.7 | -8.9 | 21.21 | 4.9 |
| 1+50 S | 35.8 | -8.4 | 21.55 | 4.9 |
| 1+60 S | 41.9 | -8.0 | 20.87 | 4.9 |

Line 1+00 W Date 1 OCT 87 23.4 #224

| POSITION | I/P | QUAD | T.FLD | TILT CULT |
|---|---|---|---|---|
| 1+60 S | 16.3 | -7.9 | 19.76 | 4.8 |
| 1+50 S | 21.5 | -10.6 | 19.96 | 5.7 |
| 1+40 S | 10.7 | -8.1 | 20.19 | 2.4 |
| 1+30 S | 9.6 | -6.9 | 19.82 | 3.3 |
| 1+20 S | 14.1 | -6.8 | 19.22 | 3.9 |
| 1+10 S | 13.2 | -5.7 | 20.24 | 2.7 |
| 1+00 S | 18.2 | -9.0 | 18.46 | 4.3 |
| 0+90 S | 19.3 | -7.5 | 20.31 | 3.4 |
| 0+80 S | 19.8 | -5.9 | 19.48 | 4.3 |
| 0+70 S | 24.3 | -7.2 | 19.61 | 4.3 |

| | | | | | |
|---|---|---|---|---|---|
| 0+60 | S | 17.2 | -6.6 | 20.17 | 3.9 |
| 0+50 | S | 6.9 | -8.0 | 20.78 | 1.8 |
| 0+40 | S | 23.3 | -7.6 | 19.45 | 4.8 |
| 0+30 | S | 12.9 | -6.8 | 19.76 | 2.9 |
| 0+20 | S | 20.9 | -7.4 | 19.24 | 5.5 |
| 0+10 | S | 22.6 | -7.2 | 19.41 | 3.9 |
| 0+00 | N | 0.6 | -7.3 | 21.72 | 2.9 |
| 0+10 | N | 15.8 | -7.3 | 21.20 | 3.9 |
| 0+20 | N | 16.6 | -8.1 | 20.26 | 3.9 |
| 0+30 | N | 8.4 | -7.5 | 21.34 | 2.9 |
| 0+40 | N | 16.9 | -7.7 | 20.27 | 2.9 |
| 0+50 | N | 33.2 | -11.2 | 19.13 | 4.9 |
| 0+60 | N | 26.3 | -10.2 | 19.10 | 3.9 |
| 0+70 | N | 13.2 | -8.5 | 18.77 | 1.9 |
| 0+80 | N | 13.5 | -9.1 | 20.48 | 2.6 |
| 0+90 | N | 6.9 | -6.8 | 20.86 | 3.9 |
| 1+00 | N | 4.9 | -7.6 | 21.25 | 3.9 |
| 1+10 | N | 19.9 | -10.0 | 19.34 | 3.6 |
| 1+20 | N | 40.3 | -13.5 | 18.91 | 4.4 |
| 1+30 | N | 17.4 | -6.7 | 19.05 | 3.5 |
| 1+40 | N | 9.4 | -6.6 | 20.02 | 3.9 |
| 1+50 | N | 30.2 | -11.3 | 19.46 | 4.9 |
| 1+60 | N | 27.0 | -9.8 | 19.72 | 5.9 |
| 1+70 | N | 23.1 | -9.1 | 18.45 | 4.3 |
| 1+80 | N | 28.3 | -8.7 | 19.70 | 4.6 |
| 1+90 | N | 33.7 | -8.3 | 19.23 | 5.5 |
| 2+00 | N | 23.8 | -6.3 | 19.02 | 3.7 |
| 2+10 | N | 28.5 | -9.2 | 19.54 | 3.9 |
| 2+20 | N | 16.2 | -8.5 | 20.13 | 4.3 |
| 2+30 | N | 22.7 | -10.4 | 19.61 | 3.3 |
| 2+40 | N | 20.6 | -11.0 | 18.32 | 3.2 |

Line 1+20 W Date 1 OCT 87 23.4 #265

| POSITION | | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|---|
| 2+40 | N | 36.6 | -8.6 | 20.04 | 4.9 | |
| 2+30 | N | 34.7 | -7.8 | 21.00 | 3.9 | |
| 2+20 | N | 37.4 | -8.5 | 21.46 | 3.9 | |
| 2+10 | N | 31.9 | -8.5 | 20.67 | 5.6 | |
| 2+00 | N | 31.7 | -8.3 | 20.01 | 4.9 | |
| 1+90 | N | 38.5 | -8.2 | 20.50 | 3.9 | |
| 1+80 | N | 40.3 | -7.7 | 20.16 | 4.9 | |
| 1+70 | N | 38.9 | -7.5 | 19.66 | 5.9 | |
| 1+60 | N | 32.5 | -8.7 | 21.27 | 5.9 | |
| 1+50 | N | 32.0 | -8.4 | 19.59 | 4.9 | |
| 1+40 | N | 29.8 | -8.3 | 20.46 | 4.9 | |
| 1+30 | N | 43.3 | -9.7 | 20.63 | 5.9 | |
| 1+20 | N | 40.4 | -9.0 | 20.50 | 4.9 | |
| 1+10 | N | 38.5 | -9.3 | 19.72 | 5.9 | |
| 1+00 | N | 32.6 | -8.2 | 20.32 | 4.9 | |
| 0+90 | N | 28.7 | -7.3 | 20.74 | 4.9 | |
| 0+80 | N | 23.8 | -6.0 | 20.37 | 5.9 | |
| 0+70 | N | 33.7 | -7.3 | 20.28 | 4.9 | |
| 0+60 | N | 29.6 | -6.7 | 21.47 | 6.9 | |
| 0+50 | N | 27.2 | -6.7 | 20.74 | 4.9 | |
| 0+40 | N | 38.8 | -6.6 | 19.98 | 5.6 | |
| 0+30 | N | 33.8 | -6.6 | 20.05 | 5.6 | |
| 0+20 | N | 22.2 | -6.2 | 20.88 | 5.7 | |
| 0+10 | N | 23.0 | -6.1 | 19.62 | 4.9 | |
| 0+00 | N | 36.0 | -7.4 | 19.70 | 5.2 | |
| 0+10 | S | 17.2 | -7.9 | 18.93 | 4.2 | |
| 0+20 | S | 30.5 | -7.9 | 20.24 | 4.5 | |
| 0+30 | S | 36.9 | -7.8 | 20.22 | 5.9 | |
| 0+40 | S | 31.4 | -8.7 | 19.62 | 5.3 | |
| 0+50 | S | 24.9 | -6.7 | 21.38 | 5.9 | |
| 0+60 | S | 28.7 | -6.6 | 21.10 | 4.9 | |

| | | | | |
|---|---|---|---|---|
| 0+70 S | 25.3 | -7.2 | 20.29 | 4.9 |
| 0+80 S | 37.9 | -7.7 | 20.98 | 5.9 |
| 0+90 S | 26.7 | -7.9 | 21.57 | 4.9 |
| 1+00 S | 43.1 | -8.0 | 21.22 | 5.9 |
| 1+10 S | 38.4 | -7.6 | 21.56 | 6.7 |
| 1+20 S | 27.5 | -7.7 | 20.59 | 5.9 |
| 1+30 S | 30.5 | -7.9 | 21.75 | 4.9 |
| 1+40 S | 25.4 | -7.4 | 22.10 | 4.9 |
| 1+50 S | 34.5 | -8.0 | 21.12 | 4.9 |
| 1+60 S | 45.7 | -8.6 | 20.95 | 5.9 |
| 1+70 S | 40.1 | -7.7 | 20.80 | 3.9 |
| 1+80 S | 35.8 | -8.0 | 20.78 | 4.9 |
| 1+90 S | 24.0 | -8.0 | 21.93 | 2.9 |
| 2+00 S | 26.8 | -7.2 | 21.41 | 2.9 |
| 2+10 S | 35.2 | -8.2 | 21.33 | 5.8 |
| 2+20 S | 28.6 | -7.2 | 22.24 | 3.9 |
| 2+30 S | 39.4 | -6.6 | 21.66 | 5.9 |
| 2+40 S | 44.2 | -8.3 | 22.39 | 5.9 |

Line 1+40 W Date 1 OCT 87 23.4 #314

| POSITION | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|
| 1+60 S | 14.1 | -7.3 | 20.10 | 4.9 | |
| 1+50 S | 9.4 | -7.1 | 21.09 | 2.5 | |
| 1+40 S | 17.9 | -7.3 | 19.40 | 3.6 | |
| 1+30 S | 11.2 | -9.1 | 20.97 | 3.5 | |
| 1+20 S | 8.3 | -8.7 | 20.66 | 4.5 | |
| 1+10 S | 3.0 | -6.9 | 19.96 | 4.3 | |
| 1+00 S | 2.3 | -8.0 | 21.38 | 2.4 | |
| 0+90 S | 1.4 | -6.7 | 20.20 | 1.4 | |
| 0+80 S | 29.3 | -7.9 | 19.85 | 4.5 | |
| 0+70 S | 25.3 | -10.4 | 19.69 | 2.9 | |
| 0+60 S | 12.1 | -8.0 | 19.58 | 2.5 | |
| 0+50 S | 1.4 | -9.0 | 19.97 | 2.2 | |
| 0+40 S | 12.0 | -9.2 | 19.77 | 3.5 | |
| 0+30 S | 13.8 | -8.5 | 19.51 | 3.6 | |
| 0+20 S | 8.8 | -8.1 | 18.93 | 4.2 | |
| 0+10 S | 2.7 | -7.9 | 19.95 | 2.4 | |
| 0+00 N | 4.6 | -7.2 | 20.75 | 4.7 | |
| 0+10 N | 2.7 | -6.0 | 20.60 | 2.9 | |
| 0+20 N | 12.1 | -10.2 | 19.77 | 4.9 | |
| 0+30 N | 3.0 | -7.1 | 21.26 | 2.9 | |
| 0+40 N | 18.7 | -8.3 | 19.72 | 1.9 | |
| 0+50 N | 13.9 | -9.6 | 20.04 | 1.9 | |
| 0+60 N | 11.1 | -8.3 | 20.69 | 1.9 | |
| 0+70 N | -1.2 | -8.2 | 20.65 | 2.5 | |
| 0+80 N | 6.2 | -8.5 | 21.40 | 3.9 | |
| 0+90 N | 0.6 | -6.8 | 20.61 | 3.9 | |
| 1+00 N | 4.7 | -6.6 | 21.05 | 1.9 | |
| 1+10 N | 1.7 | -6.4 | 20.12 | 3.9 | |
| 1+20 N | 21.9 | -9.0 | 18.93 | 4.9 | |
| 1+30 N | 9.1 | -6.0 | 19.60 | 3.9 | |

EOF

OMNI-PLUS  Tie-line MAG/VLF  Ser #208035
VLF DATA
Date  2 OCT 87
Operator:  5001
Records:  86
Bat:  16.1 Volt  Lithium:  3.46 Volt
Last time update:  10/02  8:10:00
Start  of  print:  10/02 17:17:30

#1  69.3  -1.6 2565.  0.8

Line  1+20 W  Date  2 OCT 87  23.4  #2

| POSITION | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|
| 2+50 S | 19.2 | -4.7 | 19.34 | 3.7 | |

Line  1+20 W  Date  2 OCT 87  23.4  #3

| POSITION | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|
| 2+60 S | 15.2 | -5.1 | 19.61 | 1.9 | |
| 2+70 S | 13.0 | -5.4 | 19.64 | 3.8 | |
| 2+80 S | 14.3 | -4.2 | 19.31 | 2.9 | |
| 2+90 S | 10.7 | -4.4 | 20.11 | 2.9 | |
| 3+00 S | 16.1 | -4.5 | 19.07 | 3.6 | |
| 3+10 S | 24.2 | -4.6 | 19.77 | 5.9 | |
| 3+20 S | 14.7 | -4.4 | 19.59 | 3.8 | |
| 3+30 S | 11.6 | -3.7 | 19.46 | 3.5 | |
| 3+40 S | 14.6 | -3.4 | 19.73 | 2.7 | |
| 3+50 S | 18.5 | -3.5 | 19.56 | 4.3 | |
| 3+60 S | 17.4 | -3.6 | 20.00 | 4.3 | |
| 3+70 S | 15.9 | -2.6 | 19.13 | 3.4 | |
| 3+80 S | 18.6 | -3.1 | 18.74 | 3.3 | |
| 3+90 S | 15.8 | -2.8 | 19.23 | 3.3 | |
| 4+00 S | 15.3 | -3.1 | 19.33 | 4.4 | |
| 4+10 S | 13.1 | -3.5 | 19.24 | 4.3 | |
| 4+20 S | 7.0 | -4.4 | 20.20 | 3.4 | |
| 4+30 S | 12.1 | -5.3 | 19.55 | 4.3 | |
| 4+40 S | 10.8 | -5.2 | 19.09 | 4.6 | |

Line  0+80 W  Date  2 OCT 87  23.4  #22

| POSITION | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|
| 4+40 S | 12.0 | -3.2 | 18.94 | 4.3 | |
| 4+30 S | 10.9 | -3.8 | 17.96 | 5.3 | |
| 4+20 S | 3.6 | -3.2 | 18.89 | 2.3 | |
| 4+10 S | 4.5 | -2.8 | 19.20 | 3.3 | |
| 4+00 S | 5.0 | -3.4 | 18.19 | 1.2 | |
| 3+90 S | 2.0 | -3.1 | 19.74 | 2.2 | |
| 3+80 S | 12.4 | -5.1 | 19.18 | 3.3 | |
| 3+70 S | 6.2 | -2.8 | 18.37 | 3.2 | |
| 3+60 S | 9.1 | -2.5 | 18.25 | 4.2 | |
| 3+50 S | 8.3 | -2.9 | 18.59 | 3.3 | |
| 3+40 S | 5.9 | -2.3 | 18.26 | 4.3 | |
| 3+30 S | 9.9 | -1.9 | 19.01 | 4.3 | |
| 3+20 S | 3.7 | -3.7 | 18.85 | 4.3 | |
| 3+10 S | 2.3 | -2.5 | 18.11 | 2.3 | |
| 3+00 S | 1.1 | -3.8 | 18.49 | 3.3 | |
| 2+90 S | -5.4 | -2.6 | 19.63 | 1.3 | |
| 2+80 S | 3.4 | -2.2 | 19.71 | 2.3 | |
| 2+70 S | -2.6 | -2.5 | 19.03 | 3.3 | |
| 2+60 S | 3.5 | -3.3 | 18.20 | 2.3 | |
| 2+50 S | 1.9 | -2.6 | 17.53 | 2.2 | |

Line 0+40 W Date 2 OCT 87 23.4 #42

| POSITION | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|
| 2+50 S | 20.9 | -7.4 | 22.37 | 3.9 | |
| 2+60 S | 23.6 | -7.3 | 22.20 | 2.5 | |
| 2+70 S | 17.4 | -6.8 | 21.67 | 3.9 | |
| 2+80 S | 21.3 | -9.1 | 22.01 | 3.9 | |
| 2+90 S | 25.8 | -9.1 | 21.78 | 2.9 | |
| 3+00 S | 16.1 | -8.1 | 21.93 | 3.8 | |
| 3+10 S | 22.7 | -8.3 | 23.19 | 4.4 | |
| 3+20 S | 21.4 | -8.3 | 21.67 | 3.5 | |
| 3+30 S | 23.2 | -8.5 | 21.19 | 4.6 | |
| 3+40 S | 23.8 | -8.2 | 22.53 | 3.4 | |
| 3+50 S | 20.4 | -8.8 | 22.04 | 3.9 | |
| 3+60 S | 19.1 | -7.8 | 22.68 | 3.9 | |
| 3+70 S | 21.3 | -7.8 | 22.04 | 3.6 | |
| 3+80 S | 20.8 | -8.1 | 21.46 | 4.5 | |
| 3+90 S | 15.2 | -7.3 | 21.61 | 3.9 | |
| 4+00 S | 19.5 | -7.6 | 23.15 | 3.5 | |
| 4+10 S | 25.4 | -9.0 | 20.79 | 6.2 | |
| 4+20 S | 25.9 | -9.0 | 20.57 | 4.2 | |
| 4+30 S | 20.0 | -8.1 | 20.80 | 2.4 | |
| 4+40 S | 22.4 | -8.0 | 20.49 | 4.2 | |
| 4+50 S | 22.6 | -8.3 | 20.95 | 4.9 | |

Line 0+00 E Date 2 OCT 87 23.4 #63

| POSITION | I/P | QUAD | T.FLD | TILT | CULT |
|---|---|---|---|---|---|
| 4+50 S | 8.0 | -5.3 | 21.07 | 3.3 | |
| 4+40 S | 2.8 | -4.2 | 19.90 | 1.4 | |
| 4+30 S | 3.1 | -4.0 | 20.26 | 1.3 | |
| 4+20 S | 9.6 | -5.1 | 20.96 | 3.3 | |
| 4+10 S | 9.2 | -7.1 | 21.71 | 3.3 | |
| 4+00 S | 19.2 | -7.5 | 21.90 | 4.3 | |
| 3+90 S | 7.4 | -4.6 | 22.23 | 1.5 | |
| 3+80 S | 14.1 | -5.4 | 21.78 | 3.3 | |
| 3+70 S | 10.9 | -4.5 | 21.99 | 2.4 | |
| 3+60 S | 9.2 | -5.3 | 21.79 | 3.5 | |
| 3+50 S | 8.5 | -4.8 | 21.47 | 4.4 | |
| 3+40 S | 8.4 | -5.8 | 22.03 | 4.9 | |
| 3+30 S | 8.4 | -3.7 | 22.06 | 3.9 | |
| 3+20 S | 10.1 | -4.7 | 22.10 | 2.8 | |
| 3+10 S | 12.0 | -3.5 | 20.52 | 4.3 | |
| 3+00 S | 16.0 | -7.9 | 20.97 | 4.4 | |
| 2+90 S | 12.6 | -3.5 | 20.92 | 2.9 | |
| 2+80 S | 16.9 | -6.1 | 21.12 | 3.3 | |
| 2+70 S | 11.9 | -6.2 | 22.30 | 1.9 | |
| 2+60 S | 16.6 | -7.2 | 21.75 | 2.4 | |
| 2+50 S | 4.3 | -8.0 | 21.80 | 1.4 | |
| 2+40 S | 13.4 | -6.7 | 22.23 | 3.4 | |
| 2+30 S | 13.0 | -7.8 | 21.24 | 1.2 | |
| 2+20 S | 13.1 | -7.5 | 23.10 | 1.9 | |

EOF

EDA OMNI-IV Tie-line MAG Ser #208035
TOTAL FIELD DATA (Base stn. corrected)
& GRADIENT
Date: 28 SEP 87
Operator: 5001
Reference field: 56800.0
Datum subtracted: 0.0
Records: 196
Bat: 15.7 Volt Lithium: 3.46 Volt
Last time update: 9/28 8:04:00
Start of print: 9/28 17:14:27

Base stn. Pos: 19+00 N Line: 30+00 E
Last time update: 9/28 8:04:00
Start of print: 9/28 17:14:28

| | | | | | |
|---|---|---|---|---|---|
| #1 | 55950.6 | .00 | 419.1 | 8:20:31 | 88 |
| #2 | 55948.6 | .00 | 421.1 | 8:27:37 | 88 |
| #3 | 55947.7 | .00 | 422.0 | 10:10:07 | 88 |
| #4 | 55948.0 | .00 | 421.7 | 10:11:08 | 88 |
| #5 | 55954.7 | .00 | 415.0 | 10:42:22 | 88 |
| #6 | 55954.9 | .00 | 414.8 | 10:45:12 | 88 |

Line: 0+40 W Date: 28 SEP 87 #7

| POSITION | FIELD | ERR | DRIFT | TIME | DS |
|---|---|---|---|---|---|
| 0+10 N | 57789.2 | .06 | 414.7 | 10:45:54 | 88 |
| | 33.4 | | | | |
| 0+00 N | 57789.4 | .06 | 415.9 | 10:49:42 | 88 |
| | 33.8 | | | | |
| 0+10 N | 57988.8 | .07 | 416.2 | 10:50:20 | 88 |
| | 38.3 | | | | |
| 0+20 N | 57938.7 | .06 | 417.2 | 10:51:08 | 88 |
| | -4.7 | | | | |
| 0+30 N | 57843.5 | .06 | 417.9 | 10:52:14 | 88 |
| | 32.5 | | | | |
| 0+40 N | 57856.2 | .05 | 418.5 | 10:53:03 | 88 |
| | -3.1 | | | | |
| 0+50 N | 58242.4 | .06 | 419.0 | 10:53:44 | 88 |
| | 46.6 | | | | |
| 0+60 N | 58226.7 | .07 | 419.6 | 10:54:45 | 88 |
| | 58.9 | | | | |
| 0+70 N | 58130.4 | .09 | 419.8 | 10:55:22 | 88 |
| | 68.2 | | | | |
| 0+80 N | 58064.9 | .05 | 419.9 | 10:55:57 | 88 |
| | -22.8 | | | | |
| 0+90 N | 57893.8 | .06 | 420.0 | 10:56:26 | 88 |
| | -34.0 | | | | |
| 1+00 N | 57696.9 | .06 | 420.1 | 10:57:01 | 88 |
| | 8.1 | | | | |
| 1+10 N | 57683.6 | .07 | 420.2 | 10:57:31 | 88 |
| | 54.7 | | | | |
| 1+20 N | 57612.3 | .06 | 420.2 | 10:58:04 | 88 |
| | 18.0 | | | | |
| 1+30 N | 57725.6 | .10 | 420.6 | 11:00:52 | 88 |
| | -78.0 | | | | |

| | | | | |
|---|---|---|---|---|
| 1+40 N | 57808.0 | .06 | 420.9 | 11:01:30 88 |
| | 33.5 | | | |
| 1+50 N | 57898.0 | .10 | 420.8 | 11:02:16 88 |
| | 71.5 | | | |
| 1+60 N | 57634.4 | .06 | 420.7 | 11:03:05 88 |
| | -14.5 | | | |
| 1+70 N | 57591.5 | .06 | 420.5 | 11:04:08 88 |
| | 23.3 | | | |
| 1+80 N | 57330.1 | .06 | 420.6 | 11:04:36 88 |
| | -15.3 | | | |
| 1+90 N | 57185.4 | .05 | 421.0 | 11:05:07 88 |
| | -11.5 | | | |
| 2+00 N | 56973.9 | .06 | 421.4 | 11:05:36 88 |
| | -24.0 | | | |
| 2+10 N | 56910.5 | .06 | 421.0 | 11:06:09 88 |
| | -21.9 | | | |
| 2+20 N | 56883.5 | .06 | 420.5 | 11:06:41 88 |
| | -37.6 | | | |
| 2+30 N | 56882.8 | .06 | 421.0 | 11:07:10 88 |
| | -21.4 | | | |
| 2+40 N | 56892.9 | .07 | 421.4 | 11:07:47 88 |
| | -8.2 | | | |

Line: 0+60 W Date: 28 SEP 87 #33

| POSITION | FIELD | ERR | DRIFT | TIME | DS |
|---|---|---|---|---|---|
| 2+40 N | 56907.5 | .06 | 423.0 | 11:09:41 | 88 |
| | -22.3 | | | | |
| 2+30 N | 57038.9 | .07 | 423.1 | 11:10:56 | 88 |
| | 0.5 | | | | |
| 2+20 N | 57035.9 | .06 | 423.0 | 11:11:24 | 88 |
| | -2.2 | | | | |
| 2+10 N | 57141.9 | .06 | 422.8 | 11:12:04 | 88 |
| | -13.9 | | | | |
| 2+00 N | 57428.1 | .06 | 421.9 | 11:12:37 | 88 |
| | -1.9 | | | | |
| 1+90 N | 57668.1 | .06 | 421.3 | 11:13:13 | 88 |
| | 4.3 | | | | |
| 1+80 N | 57813.6 | .07 | 421.2 | 11:13:42 | 88 |
| | 47.3 | | | | |
| 1+70 N | 57698.7 | .06 | 421.2 | 11:14:15 | 88 |
| | -7.5 | | | | |
| 1+60 N | 57662.7 | .06 | 420.7 | 11:15:00 | 88 |
| | -34.1 | | | | |
| 1+50 N | 57732.3 | .06 | 420.1 | 11:15:42 | 88 |
| | -24.2 | | | | |
| 1+40 N | 57789.4 | .06 | 419.8 | 11:16:14 | 88 |
| | 9.9 | | | | |
| 1+30 N | 58055.6 | .09 | 419.8 | 11:16:39 | 88 |
| | 95.3 | | | | |
| 1+20 N | 57885.9 | .06 | 419.6 | 11:17:05 | 88 |
| | 30.7 | | | | |
| 1+10 N | 57490.0 | .11 | 419.6 | 11:17:33 | 88 |
| | -84.8 | | | | |
| 1+00 N | 57480.2 | .06 | 419.3 | 11:18:01 | 88 |
| | -21.9 | | | | |
| 0+90 N | 57532.3 | .06 | 420.3 | 11:19:53 | 88 |
| | -10.1 | | | | |
| 0+80 N | 57713.4 | .06 | 419.8 | 11:21:02 | 88 |
| | -43.4 | | | | |
| 0+70 N | 58067.0 | .07 | 419.3 | 11:21:50 | 88 |
| | 57 8 | | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 0+60 | N | 57899.3 | .07 | 419.5 | 11:22:22 | 88 |
| | | 39.3 | | | | |
| 0+50 | N | 57798.2 | .06 | 419.8 | 11:22:51 | 88 |
| | | -13.9 | | | | |
| 0+40 | N | 57904.8 | .06 | 420.5 | 11:23:32 | 88 |
| | | 18.8 | | | | |
| 0+30 | N | 57798.6 | .11 | 420.2 | 11:24:47 | 88 |
| | | -76.2 | | | | |
| 0+20 | N | 57652.3 | .07 | 420.3 | 11:25:27 | 88 |
| | | 51.6 | | | | |
| 0+10 | N | 57278.8 | .07 | 420.4 | 11:26:03 | 88 |
| | | 9.7 | | | | |
| 0+00 | N | 57465.6 | .05 | 420.4 | 11:26:50 | 88 |
| | | -24.3 | | | | |

Line: 0+80 W Date: 28 SEP 87 #58

| POSITION | | FIELD | ERR | DRIFT | TIME | DS |
|---|---|---|---|---|---|---|
| 0+00 | N | 57454.1 | .06 | 424.8 | 11:39:48 | 88 |
| | | -9.8 | | | | |
| 0+10 | N | 57392.5 | .08 | 424.1 | 11:41:16 | 88 |
| | | -54.2 | | | | |
| 0+20 | N | 57662.7 | .06 | 423.8 | 11:42:13 | 88 |
| | | 15.5 | | | | |
| 0+30 | N | 57939.2 | .05 | 423.4 | 11:43:11 | 88 |
| | | -25.9 | | | | |
| 0+40 | N | 57859.0 | .05 | 422.8 | 11:44:38 | 88 |
| | | -19.7 | | | | |
| 0+50 | N | 58067.0 | .06 | 422.6 | 11:45:19 | 88 |
| | | 42.4 | | | | |
| 0+60 | N | 58014.3 | .06 | 422.9 | 11:46:10 | 88 |
| | | 26.0 | | | | |
| 0+70 | N | 57960.2 | .10 | 422.7 | 11:46:52 | 88 |
| | | 74.8 | | | | |
| 0+80 | N | 57713.3 | .06 | 422.6 | 11:48:10 | 88 |
| | | 25.0 | | | | |
| 0+90 | N | 57780.8 | .06 | 422.4 | 11:48:40 | 88 |
| | | 26.3 | | | | |
| 1+00 | N | 58024.3 | .09 | 422.4 | 11:49:11 | 88 |
| | | 64.1 | | | | |
| 1+10 | N | 58126.0 | .06 | 421.9 | 11:49:55 | 88 |
| | | 41.1 | | | | |
| 1+20 | N | 58153.9 | .10 | 421.5 | 11:50:36 | 88 |
| | | 82.6 | | | | |
| 1+30 | N | 58144.1 | .08 | 421.4 | 11:51:39 | 88 |
| | | 85.3 | | | | |
| 1+40 | N | 57935.9 | .06 | 421.2 | 11:52:13 | 88 |
| | | 23.5 | | | | |
| 1+50 | N | 57827.0 | .05 | 421.3 | 11:52:41 | 88 |
| | | 23.9 | | | | |
| 1+60 | N | 57862.7 | .07 | 419.9 | 11:54:23 | 88 |
| | | 32.6 | | | | |
| 1+70 | N | 58160.7 | .09 | 419.7 | 11:55:17 | 88 |
| | | 84.3 | | | | |
| 1+80 | N | 58091.8 | .06 | 419.6 | 11:55:44 | 88 |
| | | 45.9 | | | | |
| 1+90 | N | 58200.3 | .07 | 419.4 | 11:56:13 | 88 |
| | | 60.5 | | | | |
| 2+00 | N | 58270.6 | .10 | 419.2 | 11:56:43 | 88 |
| | | 127.4 | | | | |
| 2+10 | N | 57974.4 | .09 | 419.1 | 11:57:10 | 88 |
| | | 66.1 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| 2+20 N | 57772.9 | .07 | 419.0 | 11:57:35 | 88 |
| | 38.7 | | | | |
| 2+30 N | 57359.6 | .10 | 419.0 | 11:57:57 | 88 |
| | -58.6 | | | | |
| 2+40 N | 57315.1 | .05 | 418.8 | 11:58:35 | 88 |
| | 26.1 | | | | |

Line: 0+20 W Date: 28 SEP 87 #83

| POSITION | FIELD | ERR | DRIFT | TIME | DS |
|---|---|---|---|---|---|
| 2+40 N | 57126.5 | .06 | 413.3 | 12:19:36 | 88 |
| | 13.7 | | | | |
| 2+30 N | 57060.5 | .07 | 413.2 | 12:20:46 | 88 |
| | -24.3 | | | | |
| 2+20 N | 57168.6 | .06 | 413.1 | 12:21:35 | 88 |
| | 19.8 | | | | |
| 2+10 N | 57101.0 | .06 | 412.9 | 12:22:09 | 88 |
| | -30.1 | | | | |
| 2+00 N | 57496.3 | .09 | 412.7 | 12:22:36 | 88 |
| | 72.7 | | | | |
| 1+90 N | 57352.0 | .06 | 411.7 | 12:23:08 | 88 |
| | -25.8 | | | | |
| 1+80 N | 56989.6 | .11 | 411.9 | 12:23:41 | 88 |
| | -125.8 | | | | |
| 1+70 N | 57072.0 | .11 | 411.7 | 12:24:16 | 88 |
| | -69.5 | | | | |
| 1+60 N | 56978.1 | .08 | 411.1 | 12:24:51 | 88 |
| | -50.1 | | | | |
| 1+50 N | 57007.8 | .05 | 411.7 | 12:25:31 | 88 |
| | -36.6 | | | | |
| 1+40 N | 57074.5 | .06 | 411.6 | 12:26:50 | 88 |
| | -29.1 | | | | |
| 1+30 N | 57120.9 | .06 | 411.1 | 12:27:46 | 88 |
| | -33.5 | | | | |
| 1+20 N | 57469.1 | .06 | 411.4 | 12:28:54 | 88 |
| | -38.5 | | | | |
| 1+10 N | 58288.2 | .11 | 411.2 | 12:30:07 | 88 |
| | 195.5 | | | | |
| 1+00 N | 58425.4 | .10 | 411.5 | 12:31:08 | 88 |
| | 159.7 | | | | |
| 0+90 N | 58285.2 | .10 | 411.9 | 12:31:36 | 88 |
| | 111.8 | | | | |
| 0+80 N | 58101.4 | .10 | 412.1 | 12:32:08 | 88 |
| | 71.7 | | | | |
| 0+70 N | 58038.2 | .06 | 412.8 | 12:32:38 | 88 |
| | 20.1 | | | | |
| 0+60 N | 58056.7 | .07 | 413.1 | 12:33:06 | 88 |
| | -3.6 | | | | |
| 0+50 N | 57757.1 | .07 | 412.5 | 12:33:30 | 88 |
| | 32.5 | | | | |
| 0+40 N | 57554.0 | .07 | 413.5 | 12:34:04 | 88 |
| | 3.2 | | | | |
| 0+30 N | 57524.2 | .06 | 412.5 | 12:34:39 | 88 |
| | -7.4 | | | | |
| 0+20 N | 57444.0 | .05 | 413.4 | 12:35:09 | 88 |
| | -19.2 | | | | |
| 0+10 N | 57432.8 | .05 | 413.7 | 12:35:36 | 88 |
| | 24.8 | | | | |
| 0+00 N | 57410.2 | .06 | 413.0 | 12:37:15 | 88 |
| | 1.5 | | | | |
| 0+10 S | 57315.8 | .05 | 413.3 | 12:37:46 | 88 |
| | -31.7 | | | | |

| | | | | | |
|---|---|---|---|---|---|
| 0+20 | S | 57239.5 | .05 | 413.2 | 12:38:17 88 |
| | | -23.1 | | | |

Line: 0+00 E Date: 28 SEP 87 #110

| POSITION | | FIELD | ERR | DRIFT | TIME | DS |
|---|---|---|---|---|---|---|
| 0+00 | N | 58429.8 | .09 | 412.1 | 13:07:48 | 88 |
| | | 75.1 | | | | |
| 0+10 | N | 58141.4 | .06 | 413.0 | 13:09:06 | 88 |
| | | -25.3 | | | | |
| 0+20 | N | 58085.2 | .05 | 412.3 | 13:09:44 | 88 |
| | | -6.3 | | | | |
| 0+30 | N | 57961.1 | .06 | 413.2 | 13:10:20 | 88 |
| | | 21.2 | | | | |
| 0+40 | N | 57854.7 | .10 | 413.4 | 13:11:10 | 88 |
| | | 109.4 | | | | |
| 0+50 | N | 57764.0 | .06 | 413.8 | 13:11:59 | 88 |
| | | 53.5 | | | | |
| 0+60 | N | 57541.6 | .07 | 414.0 | 13:12:30 | 88 |
| | | 34.4 | | | | |
| 0+70 | N | 57430.6 | .06 | 414.0 | 13:13:06 | 88 |
| | | 7.1 | | | | |
| 0+80 | N | 57322.7 | .06 | 414.1 | 13:13:38 | 88 |
| | | -11.6 | | | | |
| 0+90 | N | 57166.2 | .06 | 414.7 | 13:14:47 | 88 |
| | | -42.8 | | | | |
| 1+00 | N | 57400.0 | .10 | 415.0 | 13:15:23 | 88 |
| | | -92.9 | | | | |
| 1+10 | N | 57543.1 | .05 | 415.0 | 13:16:02 | 88 |
| | | -17.7 | | | | |
| 1+20 | N | 57669.8 | .06 | 413.9 | 13:17:12 | 88 |
| | | 37.3 | | | | |
| 1+30 | N | 57495.9 | .05 | 413.8 | 13:17:55 | 88 |
| | | -20.0 | | | | |
| 1+40 | N | 57914.7 | .05 | 413.6 | 13:19:07 | 88 |
| | | 31.2 | | | | |
| 1+50 | N | 58033.0 | .11 | 415.0 | 13:19:52 | 88 |
| | | -77.9 | | | | |
| 1+60 | N | 57718.6 | .08 | 414.8 | 13:20:48 | 88 |
| | | 42.3 | | | | |
| 1+70 | N | 57608.9 | .09 | 424.3 | 14:27:18 | 88 |
| | | 69.3 | | | | |
| 1+80 | N | 57355.9 | .06 | 425.0 | 14:28:25 | 88 |
| | | -17.1 | | | | |
| 1+90 | N | 57432.6 | .06 | 425.2 | 14:29:05 | 88 |
| | | 36.4 | | | | |
| 2+00 | N | 57260.9 | .05 | 424.4 | 14:29:42 | 88 |
| | | -21.7 | | | | |
| 2+10 | N | 57154.1 | .06 | 424.5 | 14:30:33 | 88 |
| | | -22.1 | | | | |
| 2+20 | N | 57208.5 | .06 | 425.1 | 14:31:36 | 88 |
| | | 17.8 | | | | |
| 2+30 | N | 57320.6 | .05 | 424.4 | 14:32:52 | 88 |
| | | -36.8 | | | | |
| 2+40 | N | 57192.2 | .06 | 425.2 | 14:33:34 | 88 |
| | | 5.3 | | | | |

Line: 0+20 E Date: 28 SEP 87 #135

| POSITION | | FIELD | ERR | DRIFT | TIME | DS |
|---|---|---|---|---|---|---|
| 2+40 | N | 57143.8 | .07 | 424.8 | 14:35:55 | 88 |
| | | -1.3 | | | | |
| 2+30 | N | 57289.3 | .06 | 426.1 | 14:37:12 | 88 |
| | | 25.3 | | | | |

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2+20 N 57361.3 .06   425.8 14:37:53 88
          12.3
2+10 N 57523.0 .06   425.7 14:38:36 88
          29.2
2+00 N 57492.9 .06   426.0 14:40:02 88
          18.0
1+90 N 57521.4 .05   425.9 14:41:06 88
          11.3
1+80 N 57365.2 .06   426.2 14:42:27 88
          15.7
1+70 N 57206.7 .05   425.3 14:44:26 88
         -36.4
1+60 N 57480.0 .06   425.4 14:45:56 88
          26.3
1+50 N 57485.0 .10   424.2 14:47:18 88
         -70.2
1+40 N 57682.3 .05   424.0 14:47:58 88
          -1.1
1+30 N 57562.6 .07   423.6 14:48:38 88
           0.9
1+20 N 57542.8 .06   423.4 14:49:12 88
         -21.2
1+10 N 57655.4 .07   423.2 14:50:17 88
          44.7
1+00 N 57653.2 .07   423.2 14:51:03 88
          29.8
0+90 N 57457.4 .07   422.8 14:51:43 88
         -19.3
0+80 N 57563.8 .06   423.0 14:53:21 88
          -4.3
0+70 N 57494.1 .07   423.6 14:54:01 88
          37.0
0+60 N 57269.7 .10   424.2 14:54:41 88
         -99.5
0+50 N 57146.2 .10   425.9 14:56:31 88
         -85.4
0+40 N 57302.1 .06   426.3 14:57:17 88
         -19.4
0+30 N 57581.3 .07   426.5 14:58:01 88
           0.8
0+20 N 58157.3 .11   426.2 14:58:39 88
          74.0
0+10 N 58349.5 .10   425.4 14:59:17 88
         106.3
0+00 N 58240.1 .06   425.1 15:00:07 88
          27.9
0+10 S 58037.4 .06   424.2 15:10:42 88
          33.7
0+20 S 57915.8 .06   424.7 15:11:17 88
          27.2
0+30 S 57734.4 .06   424.8 15:11:58 88
         -10.8
0+40 S 57644.7 .07   425.5 15:12:33 88
          43.3
0+50 S 57487.5 .06   425.4 15:13:10 88
         -13.3
0+60 S 57484.2 .05   425.9 15:13:44 88
         -12.6
0+70 S 57508.4 .06   426.6 15:14:14 88
         -16.0
0+80 S 57710.4 .05   427.3 15:14:42 88
          23.6
```

| | | | | | | |
|---|---|---|---|---|---|---|
| 0+90 S | 57739.8 | .06 | 427.2 | 15:15:17 | 88 | |
| | 0.1 | | | | | |
| 1+00 S | 57832.9 | .07 | 426.8 | 15:15:43 | 88 | |
| | 17.0 | | | | | |
| 1+10 S | 57787.8 | .07 | 426.9 | 15:16:07 | 88 | |
| | -11.5 | | | | | |
| 1+20 S | 57885.0 | .07 | 426.7 | 15:16:40 | 88 | |
| | 50.8 | | | | | |
| 1+30 S | 57783.5 | .07 | 425.7 | 15:17:17 | 88 | |
| | 48.9 | | | | | |
| 1+40 S | 57499.6 | .08 | 424.1 | 15:17:48 | 88 | |
| | 2.9 | | | | | |
| 1+50 S | 57324.6 | .06 | 422.8 | 15:18:18 | 88 | |
| | -32.1 | | | | | |
| 1+60 S | 57215.9 | .05 | 422.4 | 15:18:56 | 88 | |
| | -18.9 | | | | | |

Line: 0+00 E Date: 28 SEP 87 #176

| POSITION | FIELD | ERR | DRIFT | TIME | DS |
|---|---|---|---|---|---|
| 2+10 S | 57364.6 | .07 | 426.7 | 15:24:45 | 88 |
| | 12.0 | | | | |
| 2+00 S | 57322.0 | .05 | 426.8 | 15:25:50 | 88 |
| | -20.0 | | | | |
| 1+90 S | 57262.3 | .06 | 427.7 | 15:26:42 | 88 |
| | -12.1 | | | | |
| 1+80 S | 57161.4 | .05 | 429.1 | 15:27:38 | 88 |
| | -38.8 | | | | |
| 1+70 S | 57089.1 | .06 | 429.6 | 15:28:16 | 88 |
| | -33.1 | | | | |
| 1+60 S | 57230.8 | .10 | 430.7 | 15:29:09 | 88 |
| | -65.8 | | | | |
| 1+50 S | 57497.5 | .06 | 433.5 | 15:30:55 | 88 |
| | 17.0 | | | | |
| 1+40 S | 57534.0 | .06 | 433.8 | 15:31:40 | 88 |
| | 0.1 | | | | |
| 1+30 S | 57538.0 | .06 | 434.2 | 15:32:18 | 88 |
| | -36.3 | | | | |
| 1+20 S | 57757.3 | .05 | 434.4 | 15:33:00 | 88 |
| | -31.1 | | | | |
| 1+10 S | 57852.0 | .06 | 434.8 | 15:35:27 | 88 |
| | 0.6 | | | | |
| 1+00 S | 57986.3 | .05 | 437.3 | 15:36:00 | 88 |
| | 23.9 | | | | |
| 0+90 S | 57753.4 | .07 | 439.2 | 15:36:30 | 88 |
| | -12.7 | | | | |
| 0+80 S | 57718.0 | .06 | 438.2 | 15:37:05 | 88 |
| | 6.3 | | | | |
| 0+70 S | 57687.3 | .06 | 436.3 | 15:37:29 | 88 |
| | 15.8 | | | | |
| 0+60 S | 57606.9 | .07 | 435.1 | 15:37:53 | 88 |
| | 4.6 | | | | |
| 0+50 S | 57580.6 | .07 | 434.4 | 15:38:16 | 88 |
| | 4.6 | | | | |
| 0+40 S | 57413.5 | .11 | 434.4 | 15:38:46 | 88 |
| | -70.8 | | | | |
| 0+30 S | 57510.7 | .05 | 434.6 | 15:39:11 | 88 |
| | -26.6 | | | | |

```
  0+20 S 57469.1 .06    434.2 15:39:38 88
           -43.5
  0+10 S 57835.7 .07    433.1 15:40:16 88
           -51.0

Checksum Error! Record #197
  0+00 N      0.0 .00      0.0  0:00:00  0
            0.0

EOF
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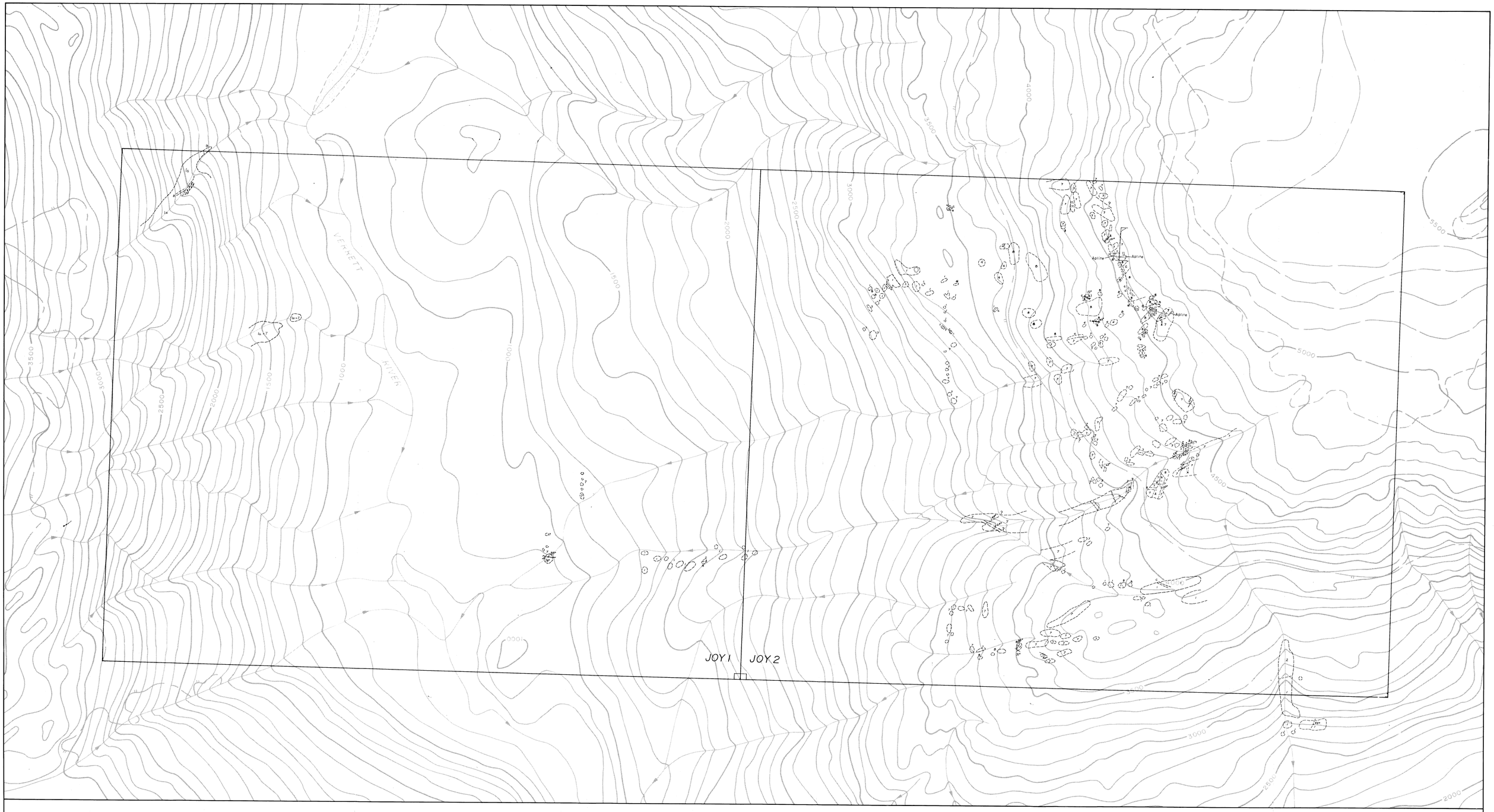



LEGEND

- A felsic intrusive, granite, monzonite, syenite, etc.
- B intermediate to mafic intrusive; diorite, etc.
- C mafic dykes
- 1 argillite, phyllite, siltstone, etc.
- 1a meta - argillites, etc
- 4 quartzite, arkose, etc.
- 7 andesites, etc; intermediate mafic volcanics

- shear zone
- fault
- anticline
- syncline
- dip and strike

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,794

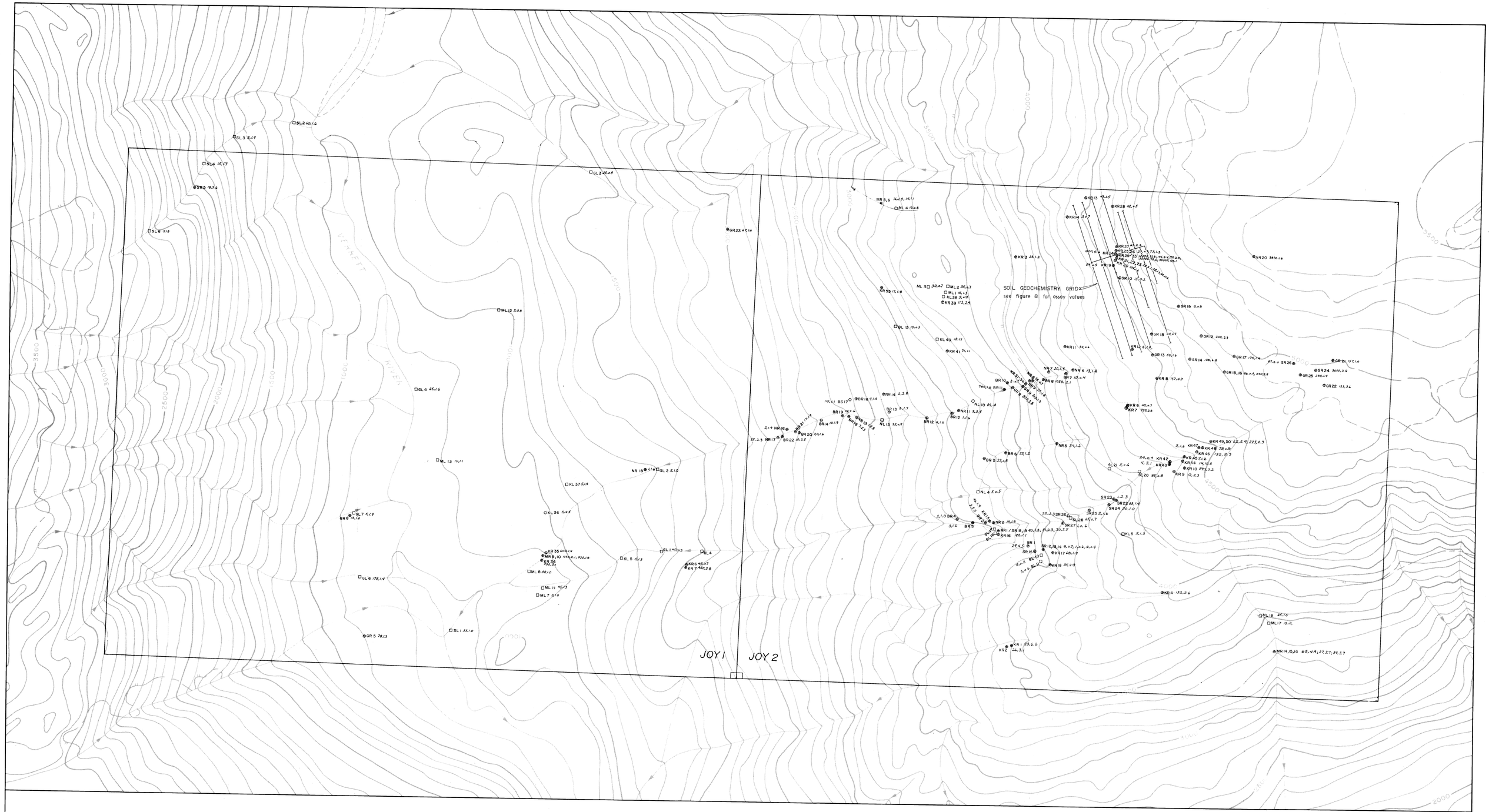
0 50 100 200 300 400 500
SCALE IN METRES

BRENWEST MINING LTD.

JOY 1 & 2 CLAIMS
Liard Mining Division, B.C.

PROPERTY GEOLOGY

| | | |
|---|---|---|
| HI-TEC RESOURCE MANAGEMENT LIMITED | DWN. BY: | DATE: Nov. '87 |
| | N.T.S. 104B/10,11 | FIGURE NR. 4 |
| | SCALE: 1:5,000 | |




29,45 Gold (ppb), Silver (ppm)

- ⊕ rock sample
- ○ soil sample
- □ silt sample
- ⊞ pan sample

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,794

0 50 100 200 300 400 500
SCALE IN METRES

N

# BRENWEST MINING LTD.

## JOY 1 & 2 CLAIMS

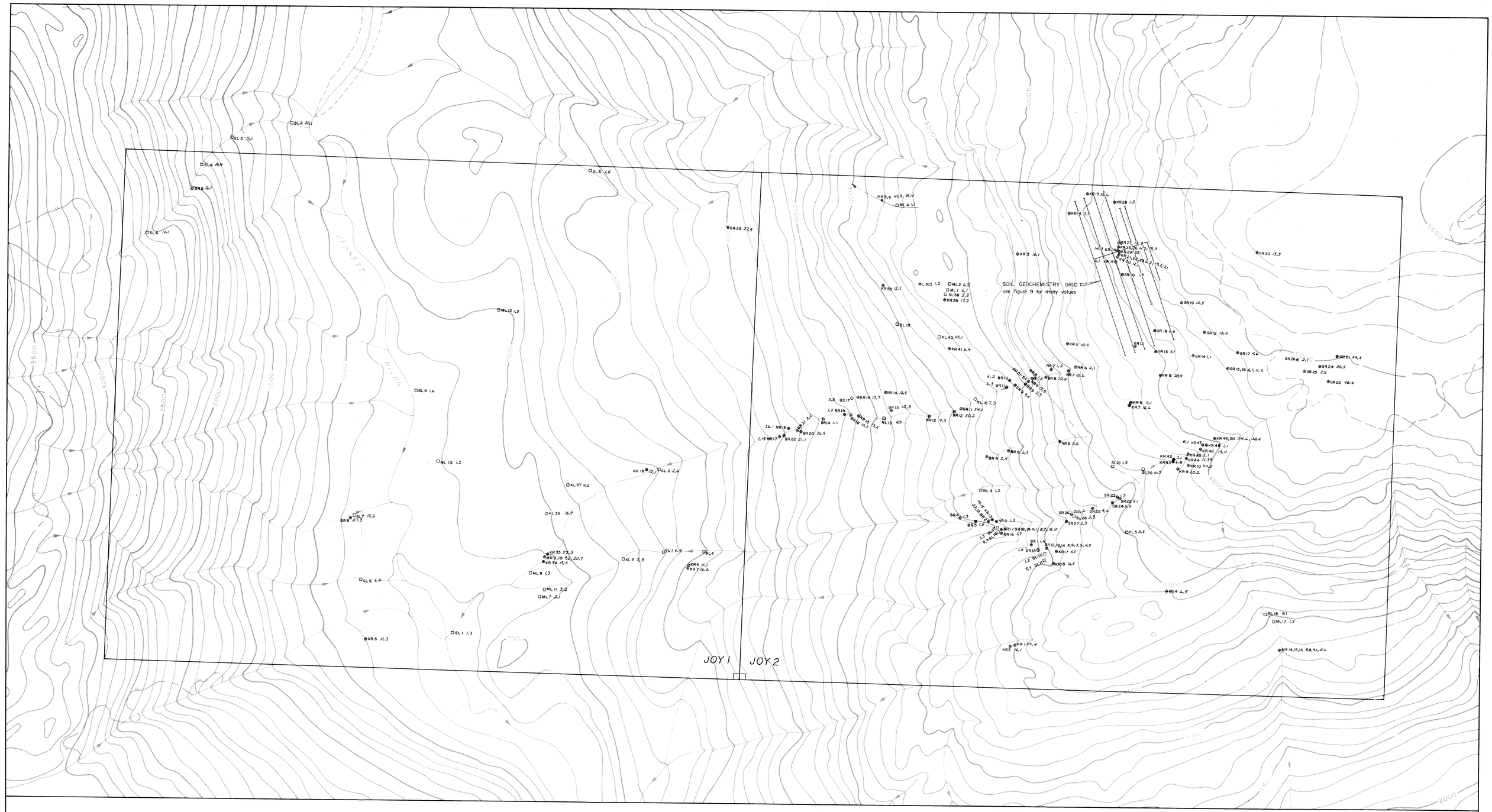
Liard Mining Division, B.C.

*GEOCHEMISTRY*

Gold (ppb) & Silver (ppm)

HI-TEC RESOURCE MANAGEMENT LIMITED

| | |
|---|---|
| DWN. BY: | DATE: Nov. '87 |
| N.T.S. 104B/10,11 | FIGURE NR. 5 |
| SCALE: 1:5,000 | |




GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,794

0 50 100 200 300 400 500
SCALE IN METRES

13,5 Arsenic (ppm), Antimony (ppm)

- rock sample
- soil sample
- silt sample
- pan sample

# BRENWEST MINING LTD.

## JOY 1 & 2 CLAIMS

Liard Mining Division; B.C.

*GEOCHEMISTRY*

Arsenic (ppm) & Antimony (ppm)

HI-TEC RESOURCE MANAGEMENT LIMITED

| | |
|---|---|
| DWN. BY: | DATE: Nov. '87 |
| N.T.S. 104B/10,11 | FIGURE NR. 6 |
| SCALE: 1:5000 | |

SOIL GEOCHEMISTRY GRID
see figure 10 for assay values

JOY 1 JOY 2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,794

0 50 100 200 300 400 500
SCALE IN METRES

45,15,65 Copper (ppm), Lead (ppm), Zinc (ppm)

⊕ rock sample
○ soil sample
□ silt sample
⊞ pan sample

# BRENWEST MINING LTD.

## JOY 1 & 2 CLAIMS

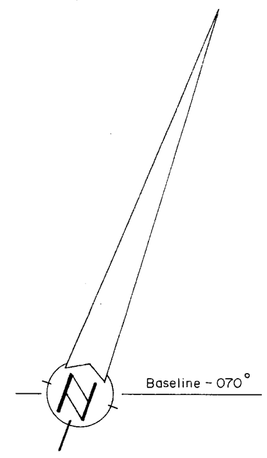
Liard Mining Division; B.C.

## *GEOCHEMISTRY*

Copper (ppm), Lead (ppm) & Zinc (ppm)

HI-TEC RESOURCE MANAGEMENT LIMITED

| | |
|---|---|
| DWN. BY | DATE Nov. '87 |
| N.T.S. 104 B/10, 11 | FIGURE NR. 7 |
| SCALE 1:5000 | |




| | L. 1+20 W | L. 0+80 W | L. 0+40 W | L. 0+00 | L. 0+40 E | L. 0+60 E | L. 0+80 E | L. 1+00 E |
|---|---|---|---|---|---|---|---|---|
| | 5,1.3 | 5,1.6 | 10,0.6 | 5,1.4 | | | | |
| | 5,1.3 | 10,0.9 | N/S | 140,1.2 | | | | |
| 2+00 N | 5,1.2 | 5,0.8 | 5,0.7 | 10,1.0 | | | | |
| | 5,0.3 | 10,0.4 | 5,0.7 | 100,0.6 | | | | |
| | 5,0.8 | 10,2.2 | 5,0.7 | 5,0.5 | 10,0.8 | 20,1.9 | | |
| | 5,0.7 | 5,1.7 | 5,0.4 | | 5,1.3 | N/S | | |
| | 5,1.4 | 5,1.6 | 5,0.6 | 530,0.7 | 5,0.9 | 5,0.2 | | |
| 1+00 N | 5,0.5 | 20,1.1 | 10,0.5 | 5,0.6 | 5,0.6 | N/S | | |
| | 5,0.6 | 10,0.9 | 5,0.7 | 5,1.3 | 5,0.7 | 5,0.3 | | |
| | 10,0.7 | 15,0.9 | 10,1.3 | 10,0.4 | 30,0.8 | N/S | | |
| | 5,1.3 | 5,1.0 | 30,1.4 | 20,0.7 | 20,1.1 | 30,0.9 | | |
| | 5,0.9 | 5,0.4 | 40,1.2 | 50,0.7 | 80,0.9 | N/S | | |
| Baseline 0+00 | 20,1.4 | 5,0.9 | 3250,6.3 GR·11 ⊗ | 5,0.6 | 30,1.1 | 20,0.8 | 40,1.5 | 5,1.4 |
| | 5,1.3 | 5,1.0 | 5,2.4 | 5,1.9 | 5,1.1 | | 10,1.5 | 5,0.7 |
| | 5,0.8 | 10,0.5 | 5,1.4 | 5,1.9 | 20,0.4 | | 20,1.0 | 5,0.6 |
| | 10,0.5 | N/S | 20,1.9 | 5,0.9 | 5,0.3 | | 5,1.2 | 5,1.1 |
| | 5,1.1 | 5,1.1 | 5,1.1 | 10,1.3 | 5,1.4 | | 5,1.1 | 5,0.3 |
| 1+00 S | 5,1.5 | 5,0.7 | 5,1.4 | 5,1.5 | 5,0.7 | | 10,1.4 | 10,1.0 |
| | 5,3.7 | 20,1.0 | 5,1.0 | 5,0.5 | 5,1.2 | | 5,1.1 | 20,1.5 |
| | 5,2.0 | 5,0.6 | 5,0.5 | 5,0.2 | 5,0.7 | | 5,0.6 | 5,0.4 |
| | 5,1.9 | 30,0.9 | 5,0.7 | 5,0.9 | 5,0.3 | | 5,0.2 | 5,1.5 |
| | 5,0.6 | 5,0.8 | | 10,1.5 | N/S | | 5,0.7 | |
| 2+00 S | 10,0.8 | 5,1.1 | 10,0.8 | 5,0.9 | 5,0.2 | | 5,0.9 | |
| | 5,1.3 | 10,2.5 | 5,1.5 | 5,1.0 | 5,1.3 | | 10,0.7 | |
| | 5,0.5 | 5,0.6 | 5,1.2 | 5,1.7 | 5,0.7 | | 5,1.8 | |
| | 5,1.7 | 5,2.2 | 5,1.3 | 5,2.0 | | | 5,1.5 | |
| | 5,1.0 | 5,0.7 | 5,1.3 | 5,1.5 | | | N/S | |
| 3+00 S | 5,0.7 | 5,1.2 | 10,1.4 | 5,0.9 | | | 5,1.0 | |
| | 10,1.7 | 10,1.5 | 5,0.7 | 5,1.7 | | | 10,1.1 | |
| | 5,1.1 | 5,2.0 | 5,1.5 | 5,2.4 | | | 5,1.0 | |
| | 10,2.4 | 5,0.7 | 20,0.8 | 10,1.2 | | | 5,0.7 | |
| | 5,0.7 | 10,1.2 | 5,0.9 | 5,0.8 | | | 5,2.3 | |
| 4+00 S | 5,1.2 | 5,1.0 | 250,2.1 | 5,2.0 | | | 5,2.1 | |



0 10 20 30 50 75 100
METRES

# BRENWEST MINING LTD.

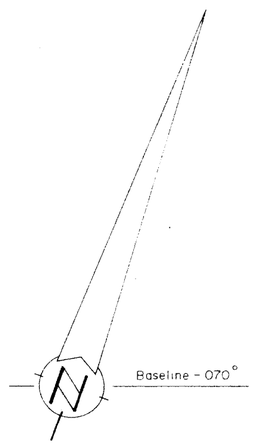
## JOY 1 & 2 CLAIMS

Liard Mining Division; B.C.

## SOIL GEOCHEMISTRY GRID

**Gold (ppb) & Silver (ppm)**

| | | | |
|---|---|---|---|
| HI-TEC RESOURCE MANAGEMENT LIMITED | Drawn by: | Date: Nov. 1987 | |
| | N.T.S. 104·B/10,11 | Figure Nº 8 | |
| | Scale: 1:1000 | | |




| | L. 1+20 W | L. 0+80 W | L. 0+40 W | L. 0+00 | L. 0+40 E | L. 0+60 E | L. 0+80 E | L. 1+00 E |
|---|---|---|---|---|---|---|---|---|
| 2+00 N | 20,5 | 8,6 | 10,2 | 29,4 | | | | |
| | 1,7 | 13,1 | N/S | 2,1 | | | | |
| | 23,6 | 3,3 | 20,4 | 2,1 | | | | |
| | 14,3 | 9,4 | 15,2 | 3,3 | | | | |
| | 20,4 | 12,1 | 9,1 | 10,2 | 5,1 | 19,6 | | |
| | 19,2 | 1,7 | 9,1 | | 1,3 | N/S | | |
| | 15,4 | 10,7 | 14,1 | 5,3 | 1,3 | 24,6 | | |
| 1+00 N | 19,3 | 19,4 | 12,1 | 1,1 | 1,3 | N/S | | |
| | 15,3 | 17,5 | 16,3 | 27,7 | 7,2 | 26,2 | | |
| | 11,4 | 17,1 | 13,1 | 1,2 | 5,2 | N/S | | |
| | 29,7 | 15,6 | 9,7 | 24,1 | 6,1 | 27,5 | | |
| | 9,6 | 16,3 | 23,1 | 18,1 | 6,1 | N/S | | |
| Baseline 0+00 | 2,6 | 22,4 | 9,1 GR II ⊗ | 10,7 | 3,1 | 24,5 | 31,6 | 1,49 |
| | 1,7 | 19,4 | 27,3 | 1,8 | 11,2 | | 34,1 | 5,12 |
| | 5,2 | 17,2 | 1,7 | 5,8 | 2,1 | | 3,1 | 3,3 |
| | 14,7 | N/S | 45,4 | 1,1 | 1,1 | | 25,1 | 13,2 |
| | 4,2 | 1,4 | 3,1 | 21,1 | 20,2 | | 1,1 | 11,1 |
| 1+00 S | 17,5 | 13,4 | 6,8 | 12,7 | 2,1 | | 30,7 | 8,2 |
| | 20,7 | 18,4 | 1,4 | 1,1 | 8,1 | | 22,5 | 13,4 |
| | 14,4 | 17,4 | 3,1 | 1,59 | 1,2 | | 1,6 | 12,1 |
| | 17,5 | 16,5 | 3,5 | 1,1 | 21,5 | | 22,5 | 10,1 |
| | 6,2 | 1,4 | | 10,10 | N/S | | 6,2 | |
| 2+00 S | 1,5 | 1,5 | 12,1 | 7,6 | 13,1 | | 16,1 | |
| | 6,3 | 11,5 | 13,6 | 17,4 | 2,2 | | 19,1 | |
| | 5,3 | 18,4 | 8,1 | 49,2 | 1,2 | | 30,9 | |
| | 8,3 | 9,7 | 16,3 | 9,7 | | | 1,7 | |
| | 6,6 | 14,3 | 4,7 | 1,1 | | | N/S | |
| 3+00 S | 1,5 | 7,7 | 10,6 | 9,5 | | | 25,2 | |
| | 26,10 | 9,5 | 13,3 | 5,4 | | | 26,2 | |
| | 9,9 | 11,6 | 8,6 | 41,1 | | | 15,7 | |
| | 23,7 | 1,3 | 12,1 | 28,4 | | | 1,3 | |
| | 1,4 | 21,4 | 16,6 | 21,6 | | | 32,1 | |
| 4+00 S | 21,5 | 7,6 | 28,1 | 48,4 | | | 2,2 | |

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,794

0 10 20 30 50 75 100
METRES

# BRENWEST MINING LTD.

## JOY 1 & 2 CLAIMS

Liard Mining Division; B.C.

## SOIL GEOCHEMISTRY GRID

**Arsenic (ppm) & Antimony (ppm)**

HI-TEC RESOURCE MANAGEMENT LIMITED

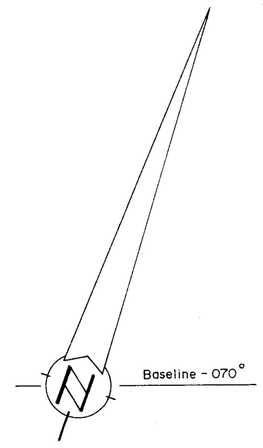
Drawn by:

N.T.S. 104-B/10,11

Scale: 1:1000

Date Nov. 1987

Figure N° 9




| | L. 1+20 W | L. 0+80 W | L. 0+40 W | L. 0+00 | L. 0+40 E | L. 0+60 E | L. 0+80 E | L. 1+00 E |
|---|---|---|---|---|---|---|---|---|
| | 37,14,106 | 16,19,67 | 91,12,85 | 94,19,119 | | | | |
| | 62,18,138 | 72,16,113 | N/S | 296,23,109 | | | | |
| 2+00 N | 43,12,128 | 39,21,98 | 143,21,116 | 174,22,110 | | | | |
| | 57,19,93 | 35,21,80 | 128,18,115 | 119.23,88 | | | | |
| | 69,22,127 | 18,10,94 | 95,18,140 | 31,14,55 | 63,23,121 | 163,25,159 | | |
| | 88,15,111 | 21,27,96 | 94,19,105 | | 62,25,124 | N/S | | |
| | 34,12,82 | 49,21,117 | 84,20,113 | 107,21,107 | 53,18,109 | 115,12,123 | | |
| 1+00 N | 73,15,93 | 104,19,107 | 60,16,97 | 84,19,117 | 89,18,108 | N/S | | |
| | 72,14,124 | 63,13,100 | 77,11,112 | 97,30,161 | 156,26,119 | 126,24,133 | | |
| | 24,22,79 | 48,20,93 | 100,14,100 | 116,22,114 | 163,26,117 | N/S | | |
| | 57,23,110 | 50,13,111 | 143,21,133 | 111,27,112 | 115,26,111 | 118,15,118 | | |
| | 82,17,160 | 63,16,96 | 111,21,131 | 104,22,134 | 158,18,118 | N/S | | |
| Baseline 0+00 | 90,21,122 | 100,7,111 | 767,24,120 GR·II ⊗ | 111,20,117 | 170,21,120 | 148,22,107 | 485,22,138 | 215,16,133 |
| | 94,20,132 | 89,19,117 | 113,30,226 | 214,19,146 | 95,23,163 | 164,20,143 | | 144,22,97 |
| | 75,18,120 | 109,22,112 | 99,20,124 | 176,20,151 | 95,16,109 | 144,19,146 | | 128,16,137 |
| | 76,16,114 | N/S | 137,14,127 | 113,16,125 | 102,16,103 | 158,24,139 | | 150,22,130 |
| | 82,21,119 | 94,18,137 | 79,16,118 | 142,19,149 | 70,25,134 | 118,27,129 | | 81,21,144 |
| 1+00 S | 42,18,96 | 53,13,89 | 26,23,66 | 52,21,155 | 111,21,118 | 111,25,142 | | 118,17,121 |
| | 10,31,168 | 67,13,107 | 24,17,73 | 85,15,134 | 116,33,133 | 130,23,131 | | 115,20,117 |
| | 42,26,133 | 68,12,100 | 43,14,97 | 105,13,118 | 100,25,108 | 112,19,108 | | 84,10,91 |
| | 33,21,138 | 53,17,110 | 31,12,81 | 93,17,112 | 38,15,71 | 53,13,94 | | 67,8,142 |
| | 32,18,78 | 67,18,98 | | 56,19,136 | N/S | 98,26,192 | | |
| 2+00 S | 97,16,107 | 80,23,103 | 63,18,97 | 30,16,108 | 25,11,5 | 97,19,137 | | |
| | 39,20,166 | 14,12,84 | 25,18,127 | 66,16,123 | 92,27,125 | 46,15,111 | | |
| | 18,19,59 | 58,21,159 | 61,17,117 | 121,15,138 | 55,19,128 | 25,27,99 | | |
| | 77,23,128 | 33,12,109 | 52,25,112 | 44,25,139 | | 109,18,123 | | |
| | 37,29,112 | 38,12,77 | 59,16,115 | 156,16,120 | | N/S | | |
| 3+00 S | 32,19,88 | 24,17,104 | 95,20,142 | 51,18,117 | | 68,23,127 | | |
| | 13,26,126 | 10,9,86 | 25,16,79 | 63,19,127 | | 74,21,114 | | |
| | 13,34,105 | 10,6,128 | 25,23,115 | 98,22,143 | | 66,30,107 | | |
| | 15,26,132 | 49,18,104 | 22,16,36 | 97,27,130 | | 27,21,85 | | |
| | 68,10,88 | 96,17,117 | 53,5,89 | 92,15,93 | | 75,28,127 | | |
| 4+00 S | 29,18,69 | 21,10,88 | 100,21,100 | 60,30,125 | | 79,23,118 | | |



0 10 20 30 50 75 100
METRES

# BRENWEST MINING LTD.

## JOY 1 & 2 CLAIMS

Liard Mining Division; B.C.

## SOIL GEOCHEMISTRY GRID

**Copper (ppm), Lead (ppm) & Zinc (ppm)**

HI-TEC RESOURCE MANAGEMENT LIMITED

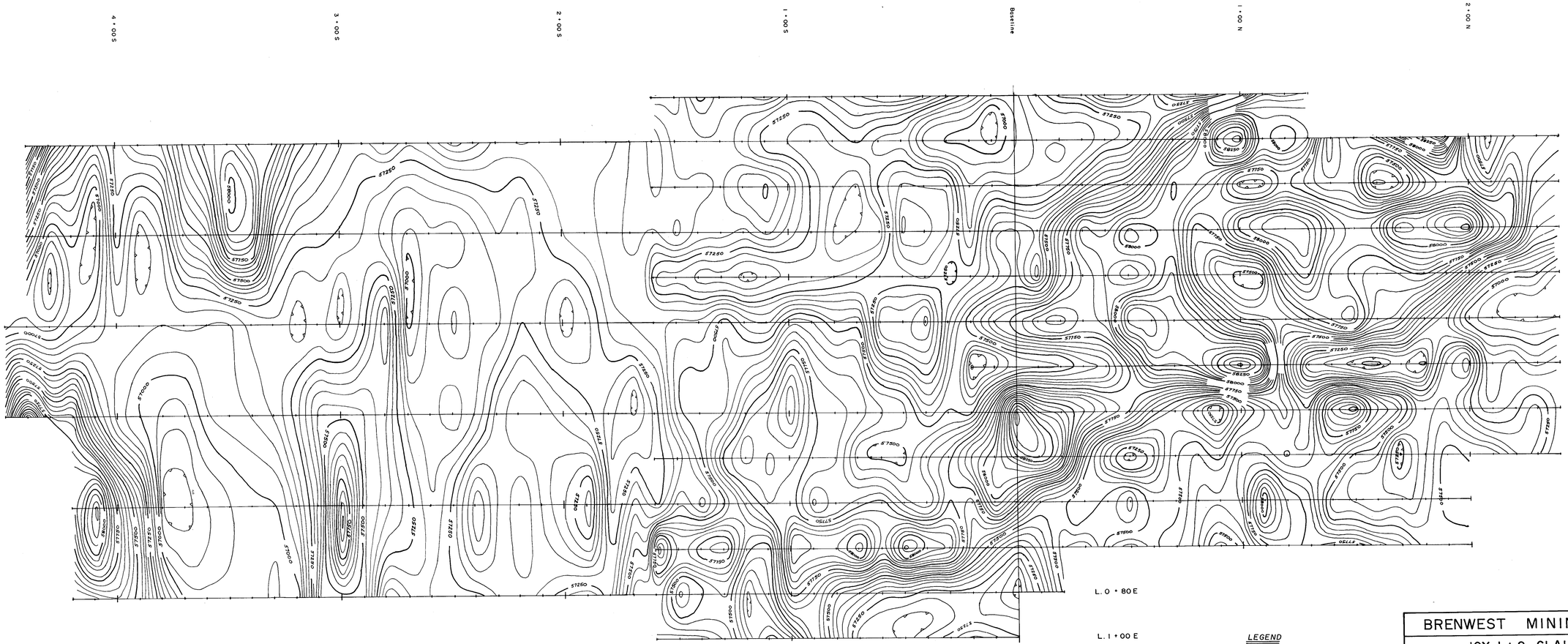
Drawn by:

N.T.S. 104·B/10,11

Scale: 1:1000

Date: Nov. 1987

Figure Nº 10




LEGEND

Readings in gammas

0 5 10 20 30 40 50 75 100

metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,794

BRENWEST MINING LTD.

JOY 1 + 2 CLAIMS

Liard M.D.; B.C.

*Magnetometer Survey*

HI-TEC RESOURCE MANAGEMENT LIMITED

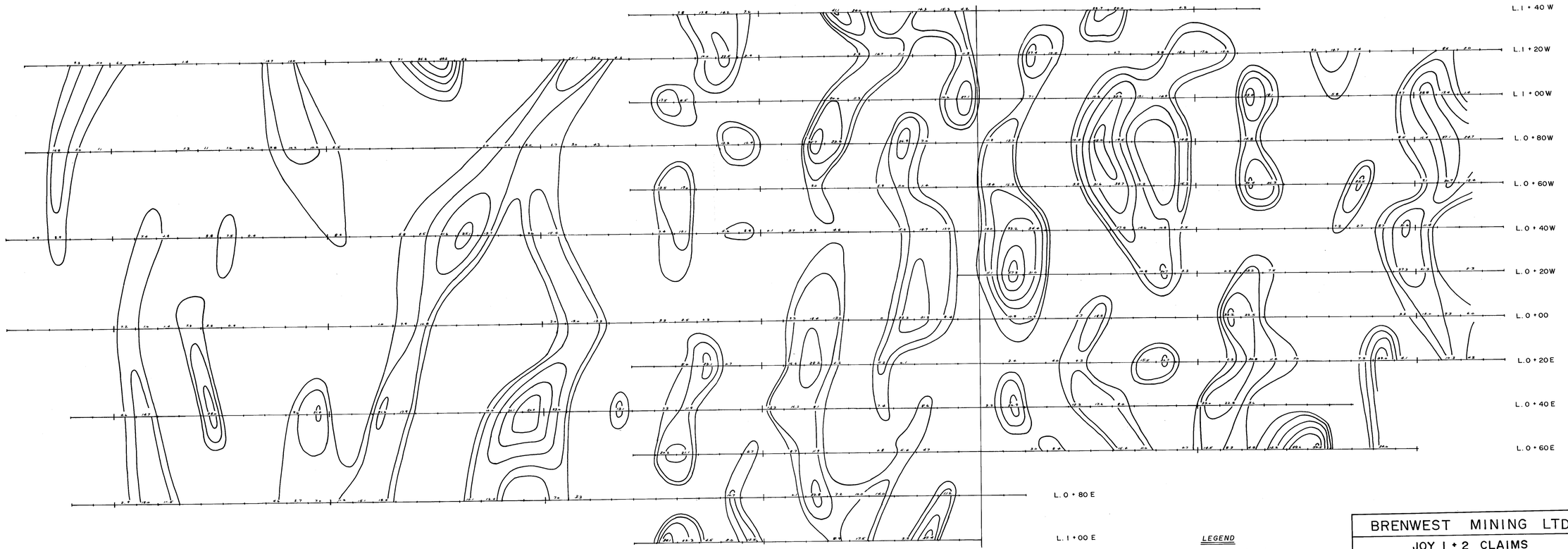
DWN BY:

N.T.S. : 104 B/10,11

SCALE : 1 : 1,000

DATE : Dec. 1987

FIGURE No. 11






**LEGEND**

Contour interval :
5,10,20,30,40,50

0 5 10 20 30 40 50 75 100
metres

# BRENWEST MINING LTD.

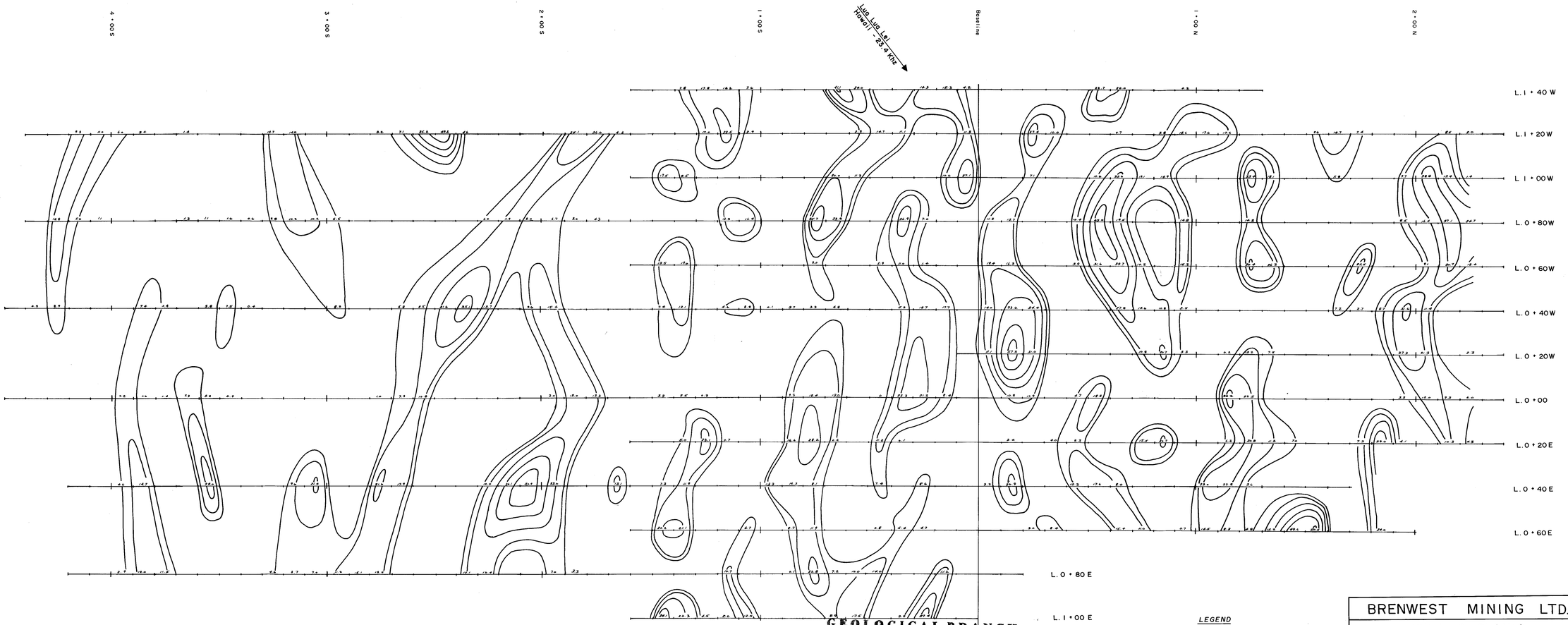
## JOY 1 + 2 CLAIMS

Liard M.D.; B.C.

## VLF-EM (Fraser Filtered)

HI-TEC RESOURCE MANAGEMENT LIMITED

| | |
|---|---|
| DWN BY : | DATE : Dec. 1987 |
| N.T.S. : 104B/10,11 | FIGURE No. 12 |
| SCALE : 1 : 1,000 | |




GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,794

*LEGEND*

Contour interval :
5,10,20,30,40,50

0 5 10 20 30 40 50 75 100
metres

BRENWEST MINING LTD.

JOY 1 + 2 CLAIMS
Liard M.D., B.C.

*VLF-EM (Fraser Filtered)*

HI-TEC RESOURCE MANAGEMENT LIMITED

DWN BY:
N.T.S. : 104 B/10,11
SCALE : 1 : 1,000

DATE Dec. 1987
FIGURE No. 12