

UNITED KENO HILL MINES LIMITED



Report  
on the  
Geological Mapping, Geochemical Sampling and Trenching  
Program on the Bear Creek Property

June to September, 1986

Klondike Area, Dawson Mining District

NTS 115/0 14

Yukon Territory

Project supervised by: Dennis R. Prince

Report written by: Alan Coutts  
Dennis Ouellette

Date: December, 1986

09 900

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
M. Act and is allowed as  
representation work in the amount  
of \$ 14,400.00.

*for* *DA Emmond*  
Regional Manager, Exploration and  
Geological Services for Commissioner,  
of Yukon Territory.

# UNITED KENO HILL MINES LIMITED

## SUMMARY

No previous work had been done in this area by the company prior to the 1986 field program. A soil sampling grid was extended over the claim group and the geology of the area was mapped. A series of high Au soil anomalies resulted in two cat trenches, 680 meters and 510 meters in length, being put in on the East side of Bear Creek. Trenching at Bear Creek returned Au values up to 0.046 ounces per ton over 5 meters and exposed a 45 to 50 meter thick fault related shear zone, sub-parallel to the creek, which contains anomalous Au values.

Some drill targets have been outlined at Bear Creek and drilling of these targets is recommended.

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## PROPERTY

The Bear Creek property consists of 16 contiguous claims staked in a four by four block in a north-south direction centered on Bear Creek up to the mouth of Lindow Creek in the Klondike.

The claims, as listed below, are owned by United Keno Hill Mines Limited (UKHM):

BEA 1 YA 80654	BEA 9 YA 80662
BEA 2 YA 80655	BEA 10 YA 80663
BEA 3 YA 80656	BEA 11 YA 80664
BEA 4 YA 80657	BEA 12 YA 80665
BEA 5 YA 80658	BEA 13 YA 80666
BEA 6 YA 80659	BEA 14 YA 80667
BEA 7 YA 80660	BEA 15 YA 80668
BEA 8 YA 80661	BEA 16 YA 80669

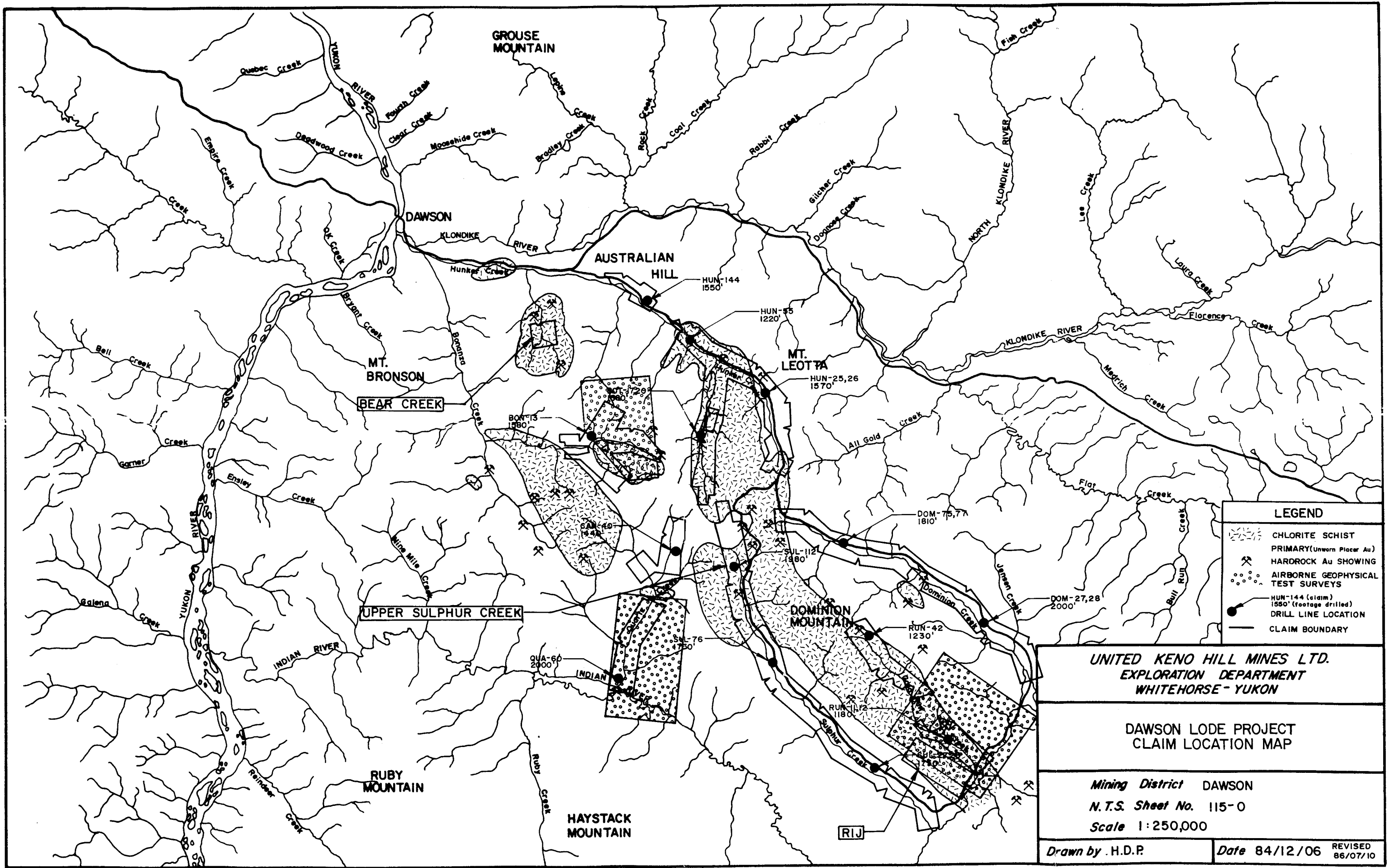
## LOCATION AND ACCESS

The BEA claims are centered on Bear Creek between Lindow Creek and Discovery Pup (NTS 115/0 14). Access to the claims is facilitated by means of the extension of the Bear Creek subdivision road which follows the creek and bisects the property. A 4-wheel drive road was constructed during the summer on the east side of the property for trenching purposes.

## HISTORY

The Klondike is a world famous placer camp that was discovered in the late 1890's which has yielded some 10 million ounces of gold. The Klondike goldfields were primarily worked by individual placer miners in the early days and from 1930 to 1966 by the Yukon Consolidated Gold Corporation, the only large corporation to work in the area. YCGC operated several electric and/or steam powered bucket line dredges on Sulphur, Hunker, Bonanza, Quartz, Dominion, and Eldorado Creeks. The last dredge ceased operation in the mid-1960's but activity picked up dramatically in the early 1970's with the increase in the price of gold. At that time a number of small hydraulic and bulldozer operations went into production and many of these are still working today. Teck Corporation is the largest company now operating in the Klondike.

In 1878, G.M. Dawson reported a mineral occurrence in the northern Canadian Cordillera and together with R.G. McConnell and William Ogilvie led the Yukon Expedition of 1887-88. McConnell and Ogilvie passed Deer Flats, which became the site of Dawson City in



LEGEND	
	CHLORITE SCHIST
	PRIMARY (Unworn Placer Au)
	HARDROCK Au SHOWING
	AIRBORNE GEOPHYSICAL TEST SURVEYS
	HUN-144 (claim) 1550' (footage drilled)
	DRILL LINE LOCATION
	CLAIM BOUNDARY

**UNITED KENO HILL MINES LTD.**  
**EXPLORATION DEPARTMENT**  
**WHITEHORSE - YUKON**

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**DAWSON LODGE PROJECT**  
**CLAIM LOCATION MAP**

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*Mining District* DAWSON  
*N.T.S. Sheet No.* 115-0  
*Scale* 1:250,000

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*Drawn by* H.D.P. *Date* 84/12/06 REVISED  
86/07/10

## UNITED KENO HILL MINES LIMITED

1897. McConnell revisited the area in 1903 and completed the first bedrock geology map. In 1906, McConnell evaluated the gold bearing high level gravels and Cairnes in 1911 visited the area briefly to examine lode gold prospects. He noticed that the most promising properties were; the Lone Star group, near the head of Victoria Gulch, a tributary of Bonanza Creek; the Violet group, situated along the divide between Eldorado and Ophir Creeks; the Mitchell group, on the divide between the heads of Hunker and Gold Bottom Creeks; the Lloyd group and neighboring claims, situated along the divide between the heads of Green Gulch and Caribou Gulch, tributaries of Sulphur and Dominion Creeks; and several groups of claims on Bear Creek joined by nearby Lindow Creek. The Lone Star has been the only producer of lode gold in the Klondike. Milling grades indicated a hand sorted mine grade of 0.18 ounces per ton Au in 1912.

Most of the lode gold occurrences in the Klondike have not been explored thoroughly because of their erratic distribution, unimpressive appearance, and the heavy overburden cover. No recent activity of any significance has taken place.

The Bear Creek area has three reported hard rock gold occurrences. They are the Virgin, Lindow and Gordon. The Virgin is the most important of the three. See Appendix I for detailed descriptions of the Virgin and other quartz showings in the area.

### PHYSIOGRAPHY

The Klondike region is characterized by drainage divides of about 3300 feet locally rising to 4500 feet. These are crooked ridges separated by dendritic valleys which are drained by master streams from 1000 to 1500 feet above sea level. A few summits locally called domes are rounded and attain elevations of 5000 feet.

The Klondike is part of the Yukon Plateau, a thoroughly dissected upland. Many of the small creeks and streams run parallel to each other in a northwesterly direction. They parallel the Tintina Trench, a major structural feature in the Territory, suggesting that the streams themselves may be following related structural features. The valleys are flat and wide in the lower reaches but gradually narrow towards their heads into steep sided narrow gulches which end abruptly in broad cols.

The rolling upland surface of the Klondike owes its existence to a general uplift in mid-Tertiary time. The area was probably faulted, eroded, and warped in later Tertiary time. Tropical weathering conditions subjected the area to deep supergene alteration conditions followed by periglacial modification and permafrost development during Quaternary time.

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## GEOLOGICAL SUMMARY

The Klondike district is in the Yukon Crystalline Terrane which developed as the result of Triassic regional metamorphism southwest of the Tintina Trench. This trench is the topographic expression of a Mesozoic right lateral fault of some 450 miles displacement. Shear zones parallel to the Tintina Fault occur in the Klondike area and major lineaments and faults with similar trends occur to the southwest. The faults consist of a series of thrust sheets separated by thrust faults. Mylonites and altered ultramafic rocks occur along these thrust surfaces.

The rocks in the Klondike may be divided into 4 categories: ultramafics, Nasina series, Klondike schists, and the Pelly gneiss. The ultramafics consist of peridotite serpentized to various degrees. The Nasina is a group of low grade metamorphic rocks of predominantly sedimentary origin. These are principally graphitic phyllite, black quartzite, black calcareous phyllite, marble and banded quartzite. The Klondike Schists vary from quartz-feldspar-muscovite schists to quartz-feldspar-biotite gneisses. Chlorite is an important constituent of some of the schists. This group is interpreted to be a highly metamorphosed volcanic pile. The Pelly Gneiss is a coarse grained massive to schistose quartzo-feldspathic rock which may be a metamorphosed intrusive body.

The bulk distribution of the metamorphic rocks proved too impractical in the field and a more detailed lithological breakdown was developed based on J.K. Mortensen's 1984 report for United Keno Hill Mines Limited. In this scheme the metamorphic rocks are divided into nine mappable units and their respective sub-units. Most of the Company's claims are underlain by units 6, 7, and 8 with several units only being locally present.

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TABLE I

LITHOLOGIC UNITS IN THE KLONDIKE DISTRICT

1. FELSIC INTRUSIVES
  - a) massive quartz-diorite
  - b) blocky grey-brown weathering gneiss
  - c) slabby quartz-muscovite schist +/-quartz eyes +/-chlorite
2. INTERMEDIATE INTRUSIVES
  - a) meta-diorite, weakly to moderately gneissic
3. MAFIC INTRUSIVES
  - a) coarse grained intrusive, locally altered to amphibolite and chlorite
4. ULTRAMAFICS
5. MORTENSEN'S FELSIC SCHIST
  - a) tan to rusty weathering quartz-muscovite schist
6. ANDESITE PORPHYRY
  - a) massive, weakly foliated porphyry with quartz and/or feldspar phenocrysts
  - b) sheared and recrystallized porphyry - "quartz eye schist"; quartz-muscovite schist +/-blue to white quartz eyes +/-minor chlorite
  - c) banded and blocky quartz and/or feldspar porphyry; green fine grained groundmass
  - d) banded and blocky pink and green gneiss; quartz-feldspar-muscovite-chlorite gneiss
7. MAFIC META-VOLCANICS
  - a) amphibolite; massive fine grained
  - b) quartz-chlorite gneiss +/-minor muscovite and abundant pyrite
  - c) no rock type
  - d) chlorite schist +/-minor muscovite +/-talc alteration +/-actinolite +/-disseminated pyrite +/- quartz sweats
  - e) muscovite schist +/-minor chlorite +/-quartz sweats
  - f) siliceous schist; fine grained, white to rusty muscovite-feldspar-quartz schist +/-pyrite
  - g) highly altered equivalent of 7b and 7d; incompetent, yellow-orange weathering saprolite

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8. CARBONACEOUS META-SEDIMENTS

- a) graphite-phyllite schist
- b) massive to moderately gneissic quartzite; black to blue-grey sucrosic quartz +/-minor sericite +/-graphite

9. FELSIC META-VOLCANICS

- a) quartz-feldspar porphyry rhyolite
- b) rusty weathering rhyolite

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## LOCAL GEOLOGY

The geology of the Bear Creek Claims was mapped for the most part using rock chips present in the soil. Some outcrop present in the stream cut and exposed in the trenches was also utilized. The rocks at Bear Creek are composed of two distinct assemblages; a sequence of muscovite-chlorite schists and gneisses, and a sheared quartz-eye schist unit. The dominant strike of the schistosity (foliation) is NE-SW with both the dip and the jointing being highly variable. Some air photo lineations, possibly fault zones, have been noted. Their exact nature is unknown. A small breccia unit is present at the intersection of Lindow and Bear Creeks. The unit is of unknown origin, possibly a lithified fault zone.

### A) MUSCOVITE-CHLORITE SCHIST/GNEISS:

The schists are dominantly chloritic with varying amounts of sericite and quartz. Small amounts of pyrite are present in this green, well-foliated rock type. Alteration of the chlorite to talc often gives the schist a greasy feel. The gneisses show a greater variety in composition. Typically, one sees compositional bands composed of chlorite and sericite, alternating with fine-grained, sucrosic quartz. End members of this series vary from bleached, nearly pure sucrosic quartz with minor muscovite and chlorite stringers to a more quartz poor, fine-grained chlorite rich rock. Pyrite mineralization is common in some zones of the gneiss as are more coarsely grained, translucent quartz sweats.

### B) QUARTZ EYE SCHISTS/PORPHYRIES:

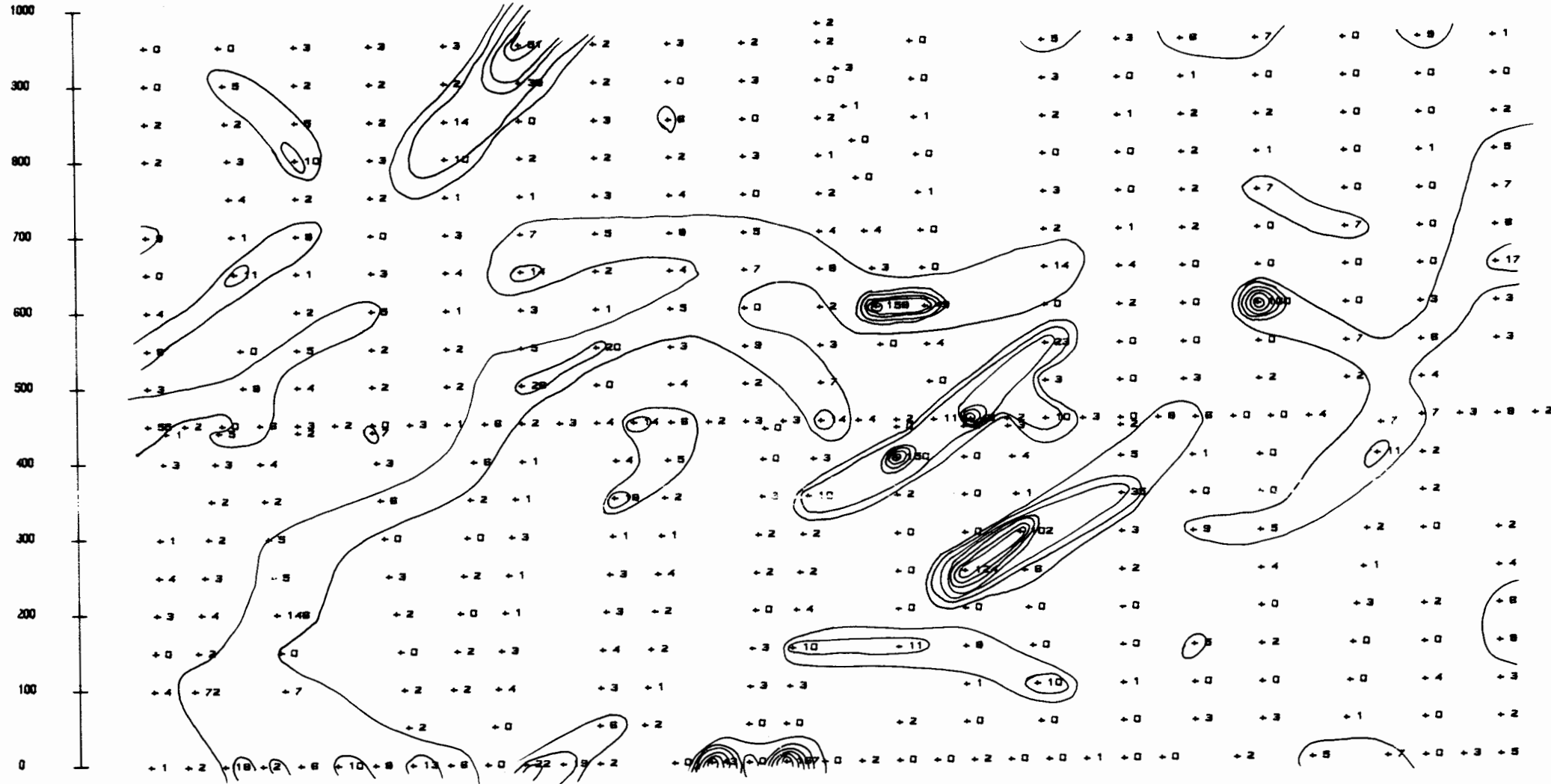
This unit is typified by the presence of small, up to two millimetres in size, white to pale blue quartz eyes in a sheared chlorite-muscovite-quartz matrix. In the more competent gneissic rocks of this unit, the very fine grained quartz-chlorite ground-mass is host to an abundance of small (<2mm) feldspar phenocrysts as well as the ubiquitous quartz eyes. Some quartz sweats are present in this unit also.

Thirteen grab samples were taken from various lithologies and assayed for gold but with negative results. These are located on the geology plan and listed in Appendix VI.

## SOIL SAMPLING

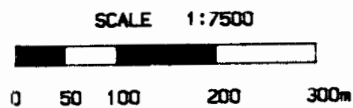
A flagged but uncut grid was set up over the 16 Bear Creek claims with base lines running N-S along the claim lines and sample lines E-W at 100m intervals. All lines were flagged at fifty meter intervals. Each flagged location was soil sampled. The samples were taken with a mattock. A total of 790 soil geochemical samples

0 -100 -200 -300 -400 -500 -600 -700 -800 -900 -1000 -1100 -1200 -1300 -1400 -1500 -1600 -1700 -1800 -1900

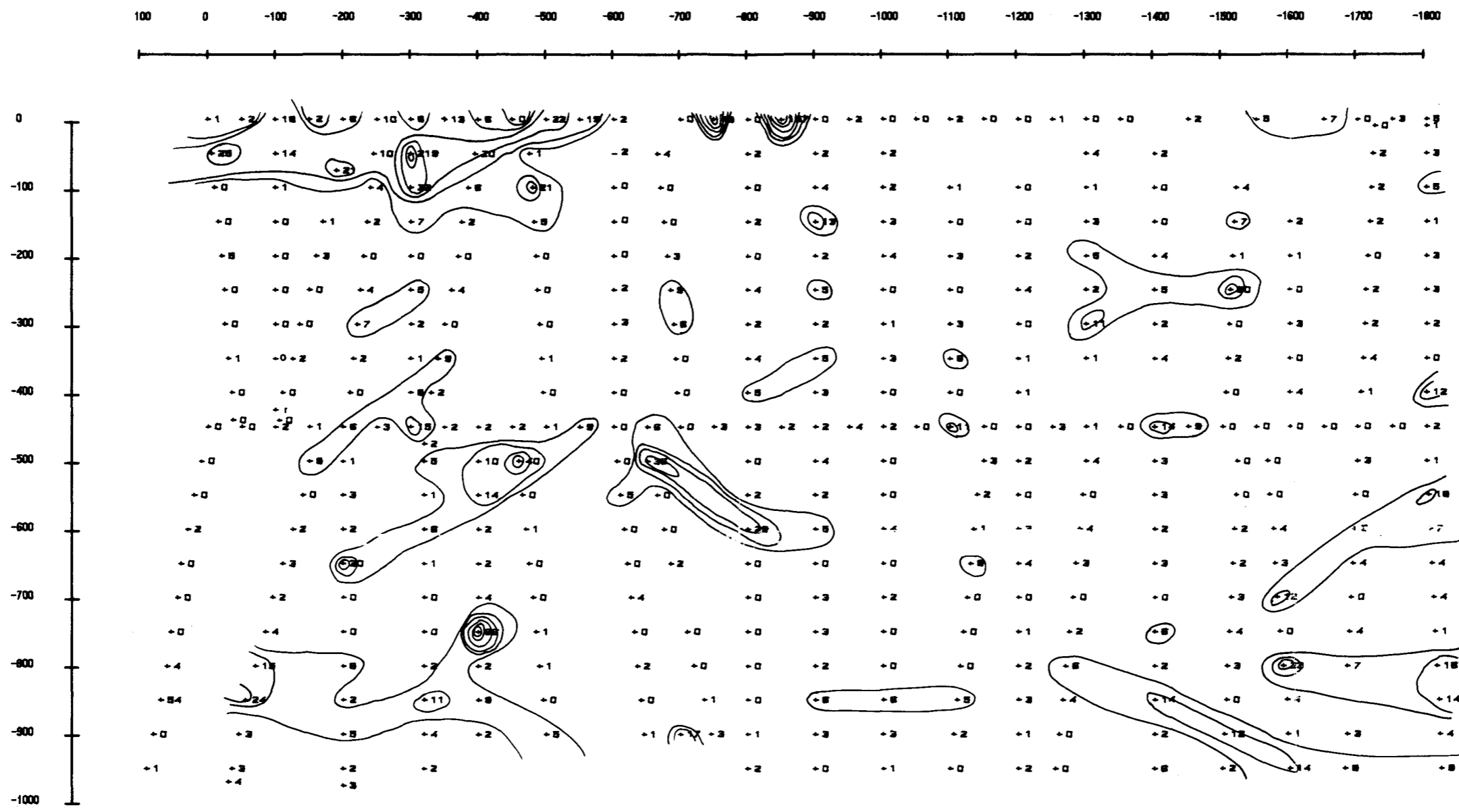


AZIMUTH of BASELINE - 10 Degrees

- >50 ppb -
- >40 ppb -
- >30 ppb -
- >20 ppb -
- >10 ppb -
- > 5 ppb -

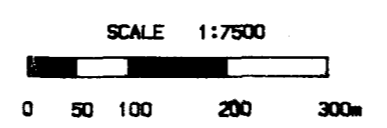


UNITED KENO HILL MINES LIMITED	
BEAR CREEK EAST GOLD GEOCHEMISTRY in ppb	
DRAWN BY: R.H.S.	DATE: Dec. 30/86
N.T.S.: 115 0/14	FIGURE NO.:

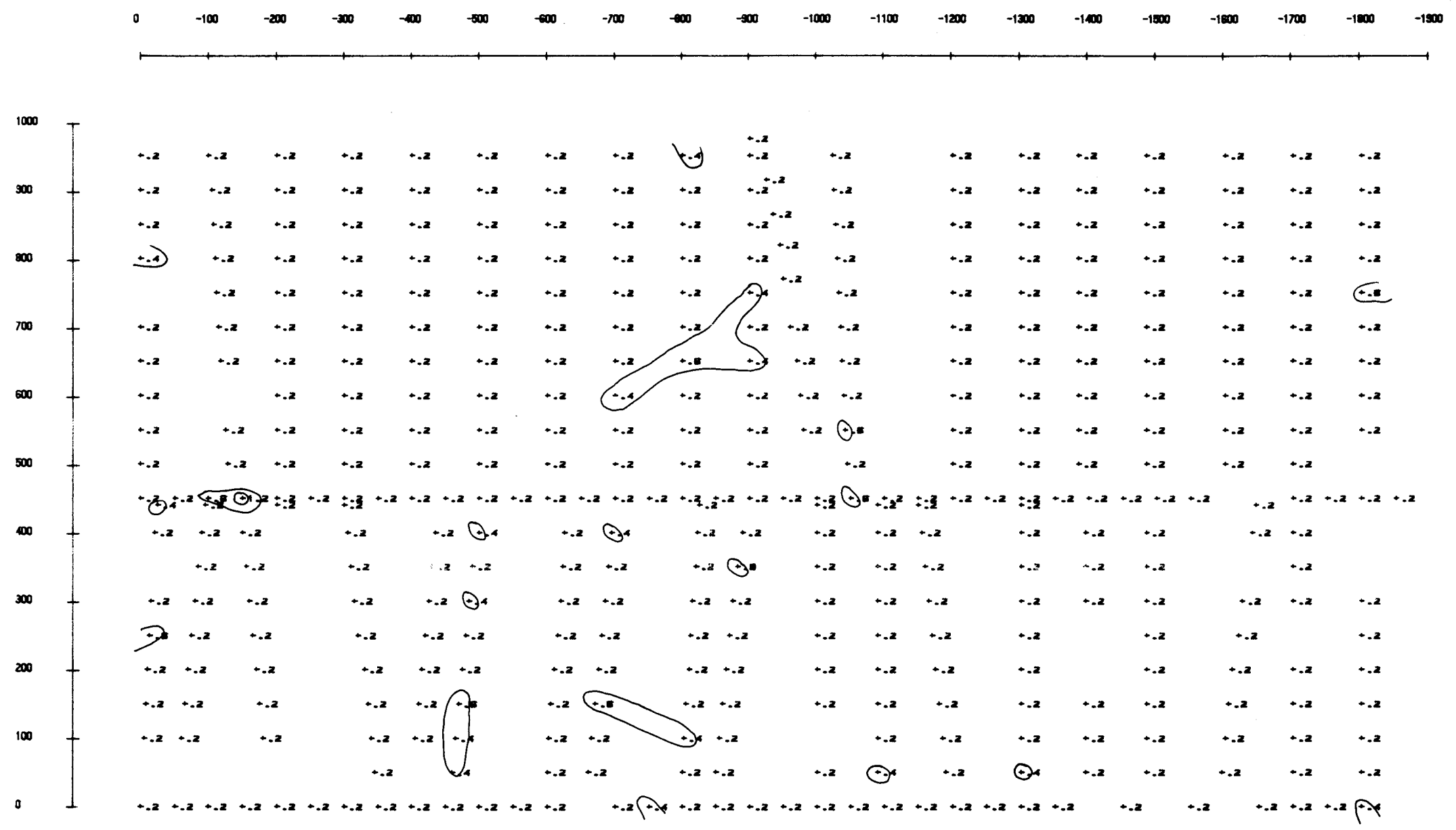


AZIMUTH of BASELINE - 10 Degrees

- >50 ppb -
- >40 ppb -
- >30 ppb -
- >20 ppb -
- >10 ppb -
- >5 ppb -

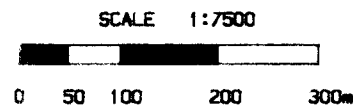


UNITED KENO HILL MINES LIMITED	
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DRAWN BY: R.H.S.	DATE: Jan. 5/87
N.T.S.: 115 0/14	FIGURE NO.:

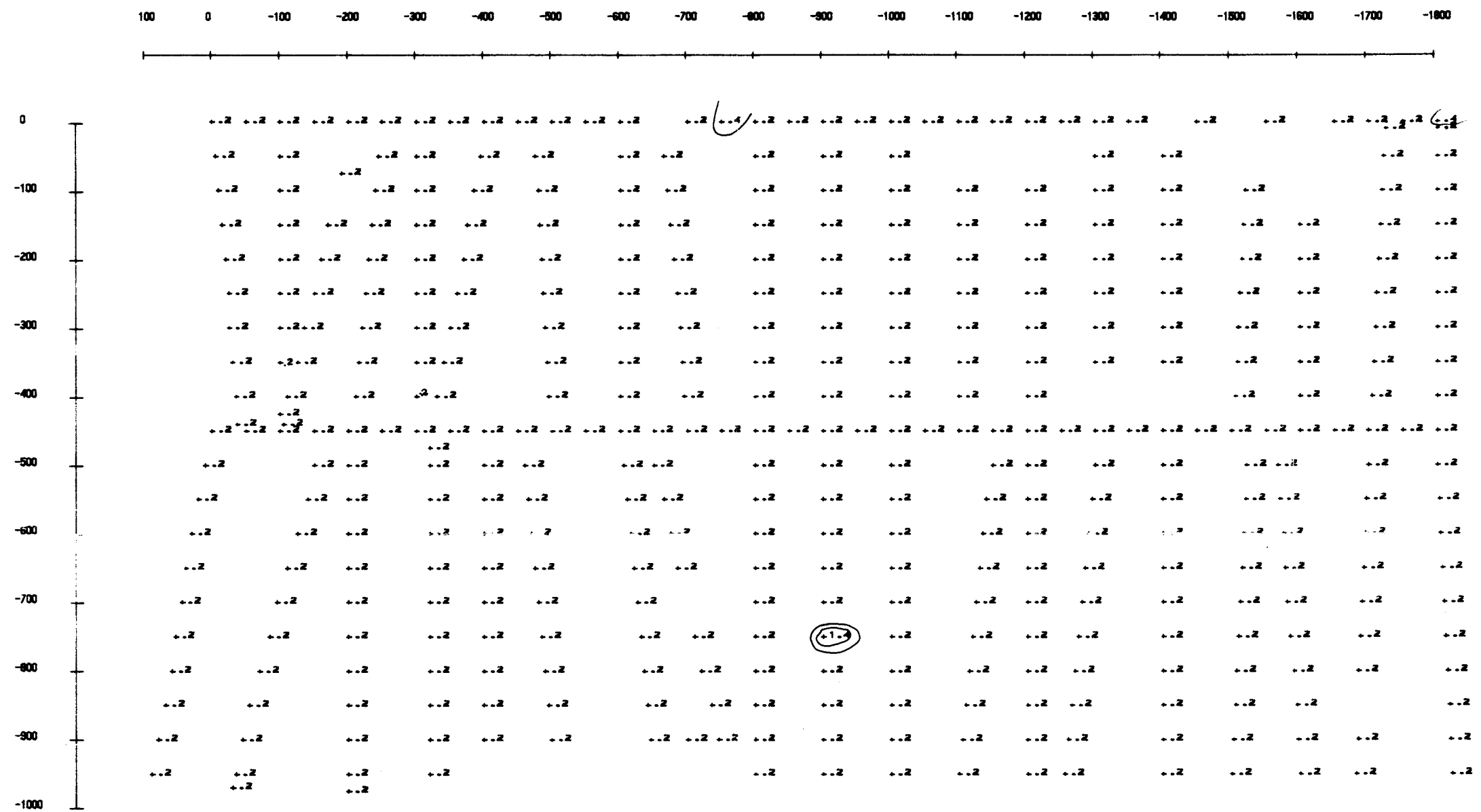


AZIMUTH of BASELINE - 10 Degrees

>1.0 ppm -  
>0.4 ppm -

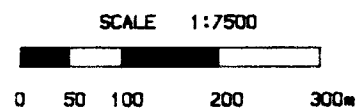


UNITED KENO HILL MINES LIMITED	
BEAR CREEK EAST	
SILVER GEOCHEMISTRY in ppm	
DRAWN BY: R.H.S.	DATE: Dec. 31/86
N.T.S.: 115 0/14	FIGURE NO.:



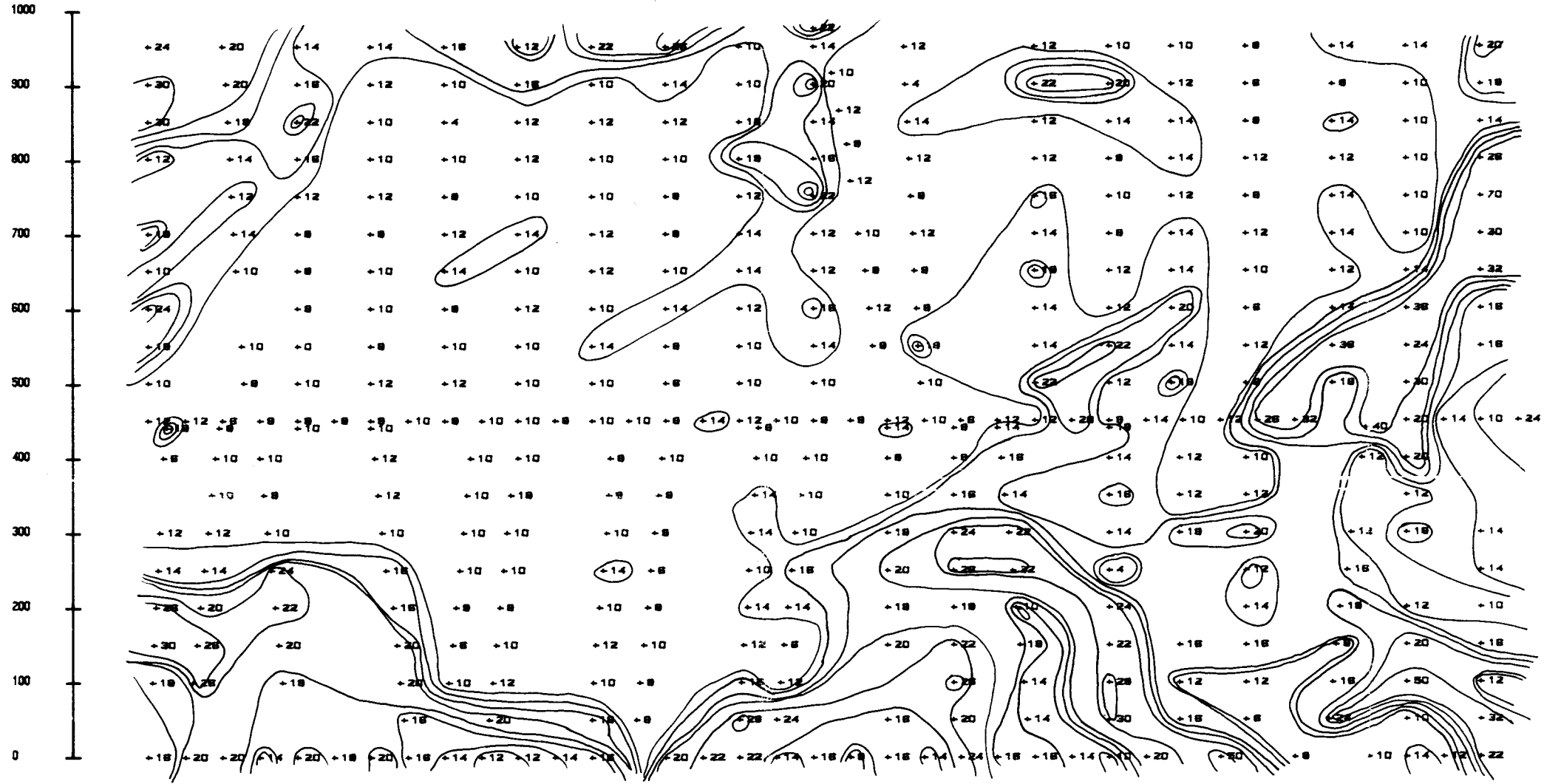
AZIMUTH of BASELINE - 10 Degrees

>1.0 ppm -  
>0.4 ppm -



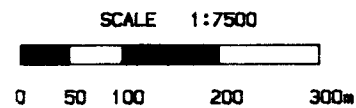
UNITED KENO HILL MINES LIMITED	
BEAR CREEK WEST SILVER GEOCHEMISTRY in ppm	
DRAWN BY: R.H.S.	DATE: Jan. 2/87
N.T.S.: 115 0/14	FIGURE NO.:

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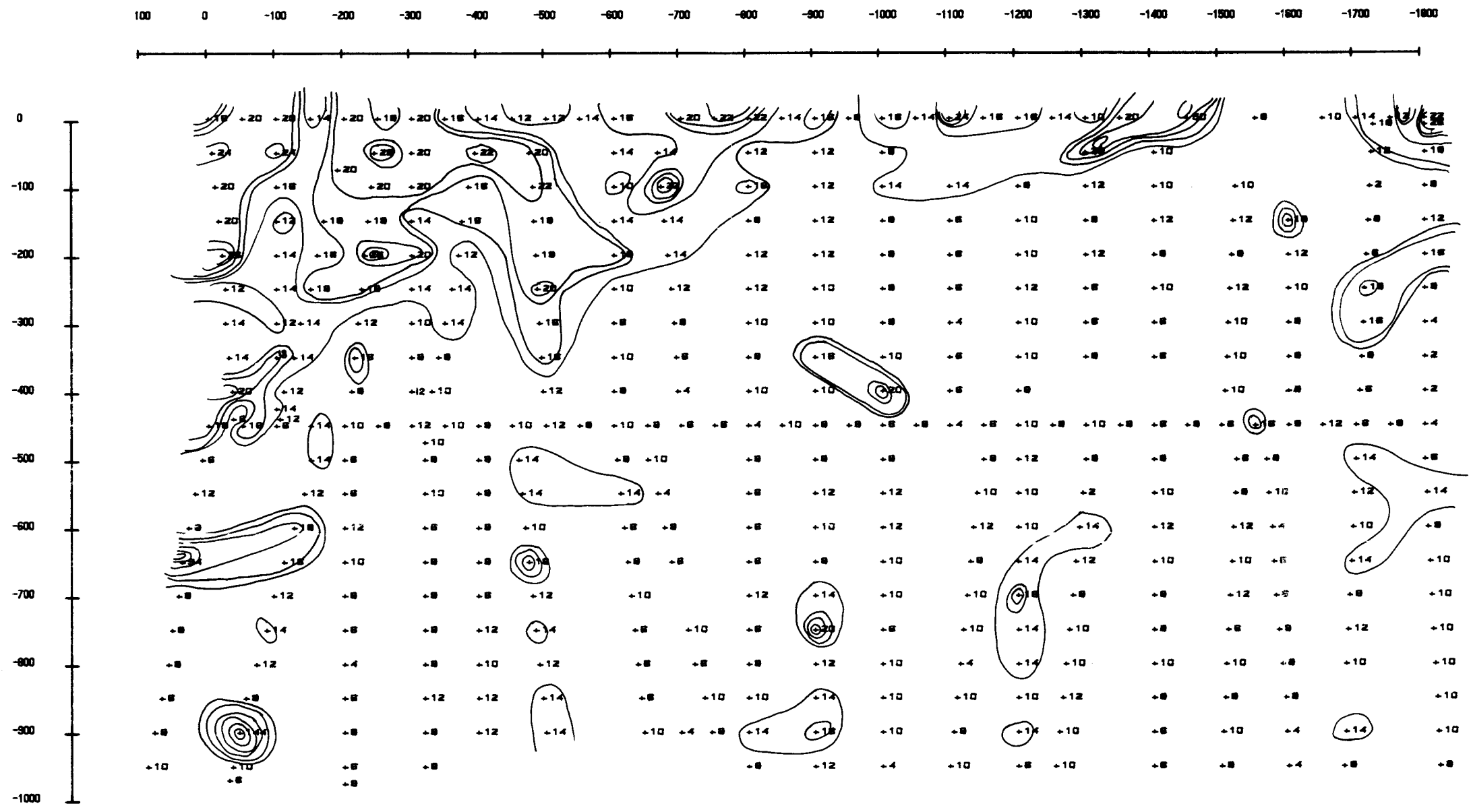


AZIMUTH of BASELINE - 10 Degrees

- >25 ppm -
- >20 ppm -
- >18 ppm -
- >16 ppm -
- >14 ppm -

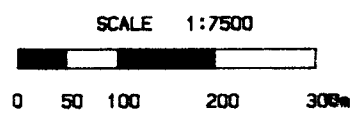


UNITED KENO HILL MINES LIMITED	
BEAR CREEK EAST LEAD GEOCHEMISTRY in ppm	
DRAWN BY: R.H.S.	DATE: Jan. 5/87
N.T.S.: 115 0/14	FIGURE NO.:



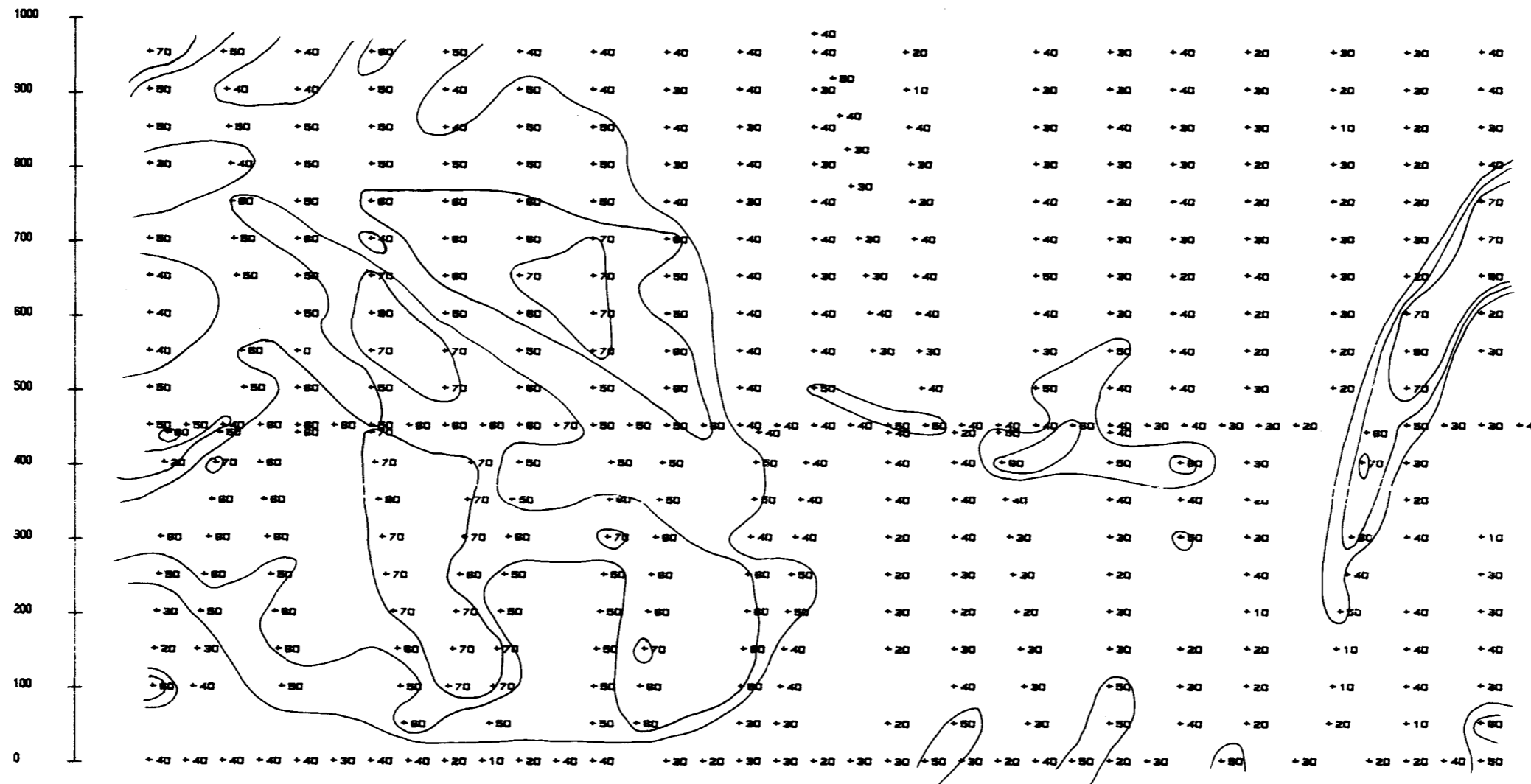
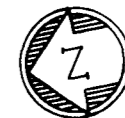
AZIMUTH of BASELINE - 10 Degrees

- >25 ppm -
- >20 ppm -
- >18 ppm -
- >16 ppm -
- >14 ppm -



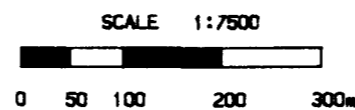
UNITED KENO HILL MINES LIMITED	
BEAR CREEK WEST LEAD GEOCHEMISTRY in ppm	
DRAWN BY: R.H.S.	DATE: Jan. 5/87
N.T.S.: 115 0/14	FIGURE NO.:

0 -100 -200 -300 -400 -500 -600 -700 -800 -900 -1000 -1100 -1200 -1300 -1400 -1500 -1600 -1700 -1800 -1900



AZIMUTH of BASELINE - 10 Degrees

- >70 ppm -
- >60 ppm -
- >50 ppm -



UNITED KENO HILL MINES LIMITED

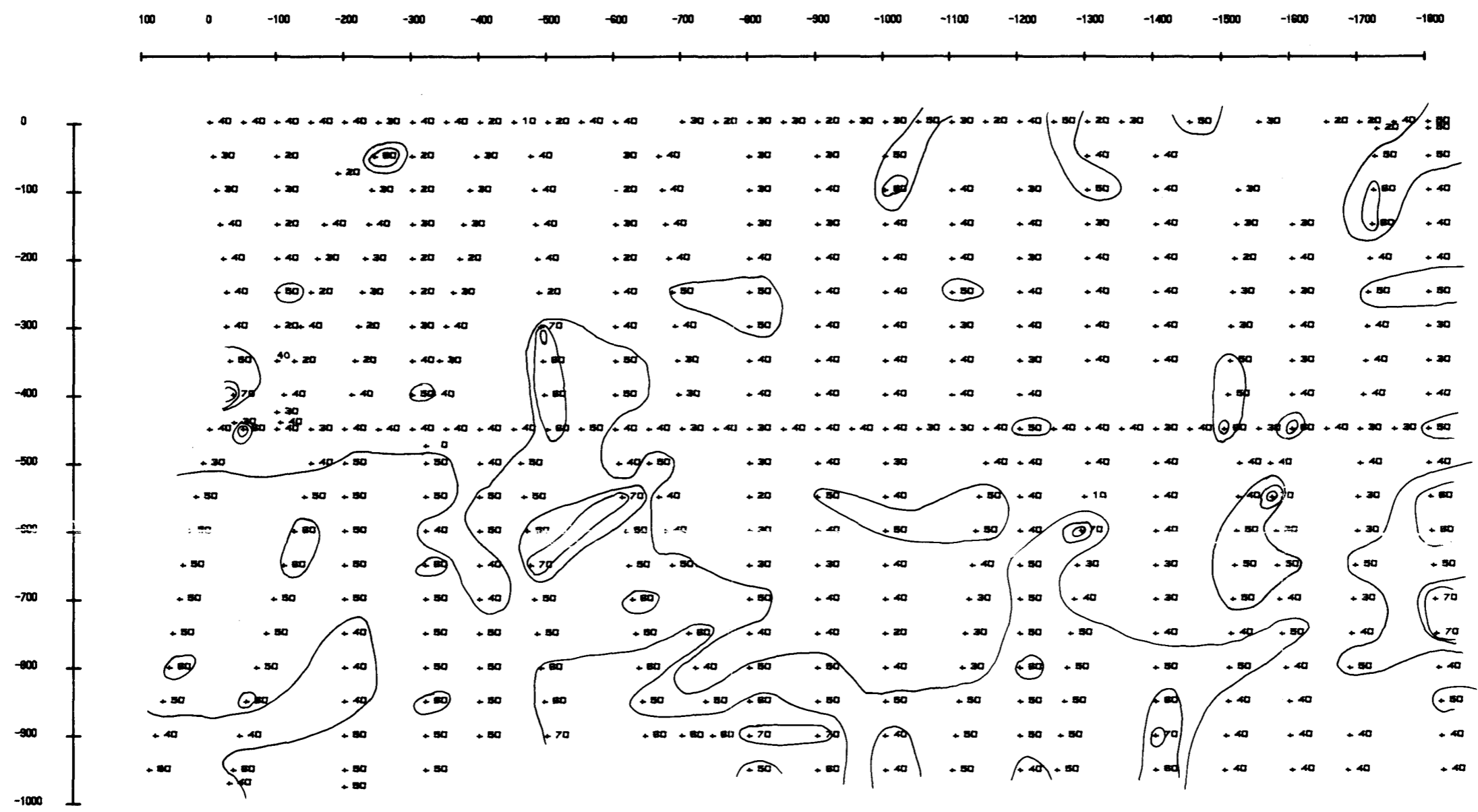
BEAR CREEK EAST  
ZINC GEOCHEMISTRY in ppm

DRAWN BY: R.H.S.

DATE: Dec. 31/86

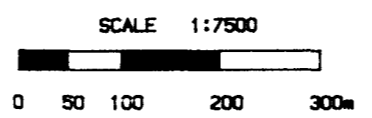
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FIGURE NO.:



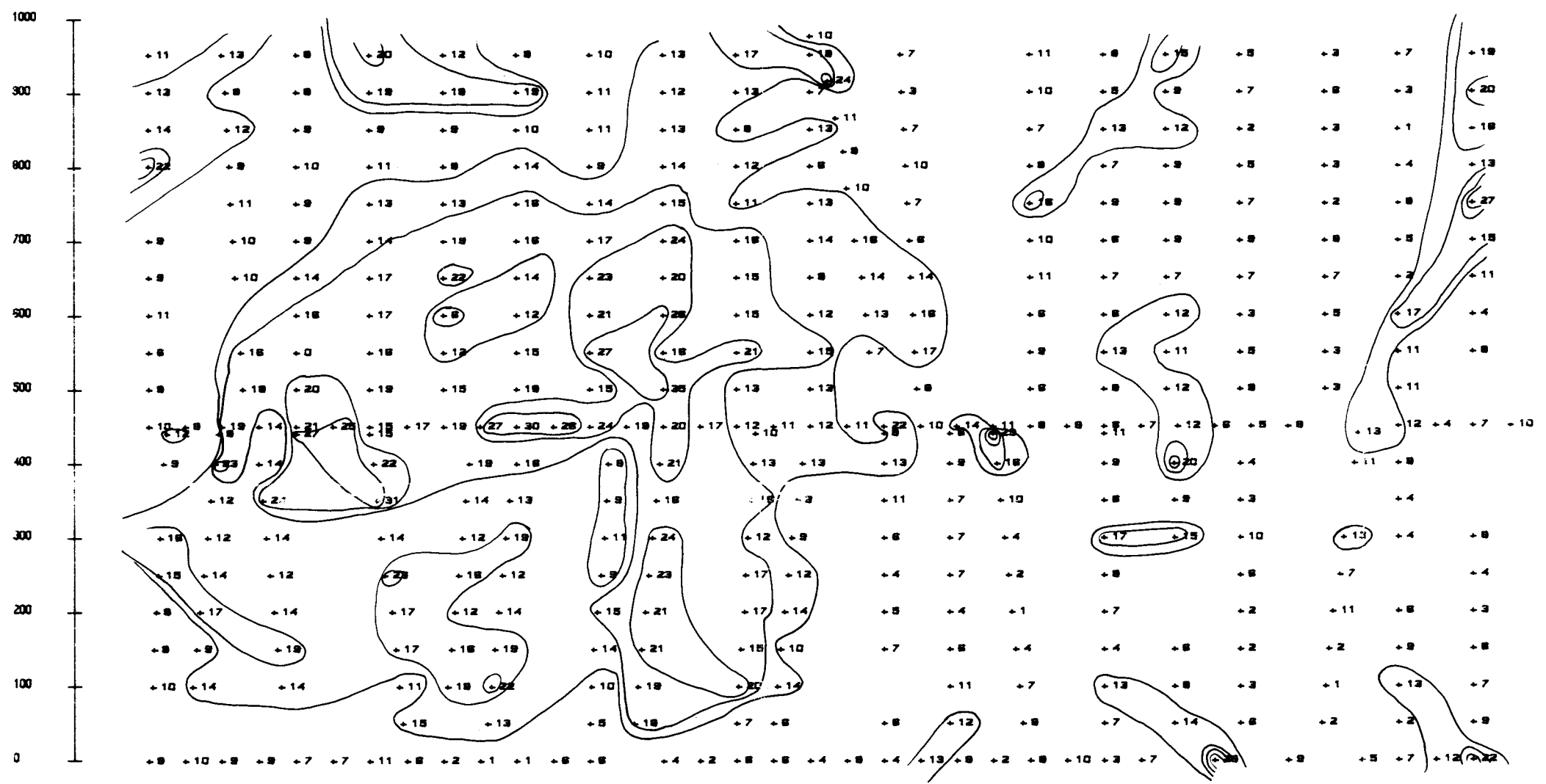
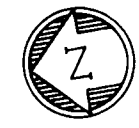
AZIMUTH of BASELINE - 10 Degrees

- >70 ppm -
- >60 ppm -
- >50 ppm -



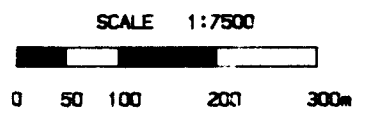
UNITED KENO HILL MINES LIMITED	
BEAR CREEK WEST ZINC GEOCHEMISTRY in ppm	
DRAWN BY: R.H.S.	DATE: Jan. 5/87
N.T.S.: 115 0/14	FIGURE NO.:

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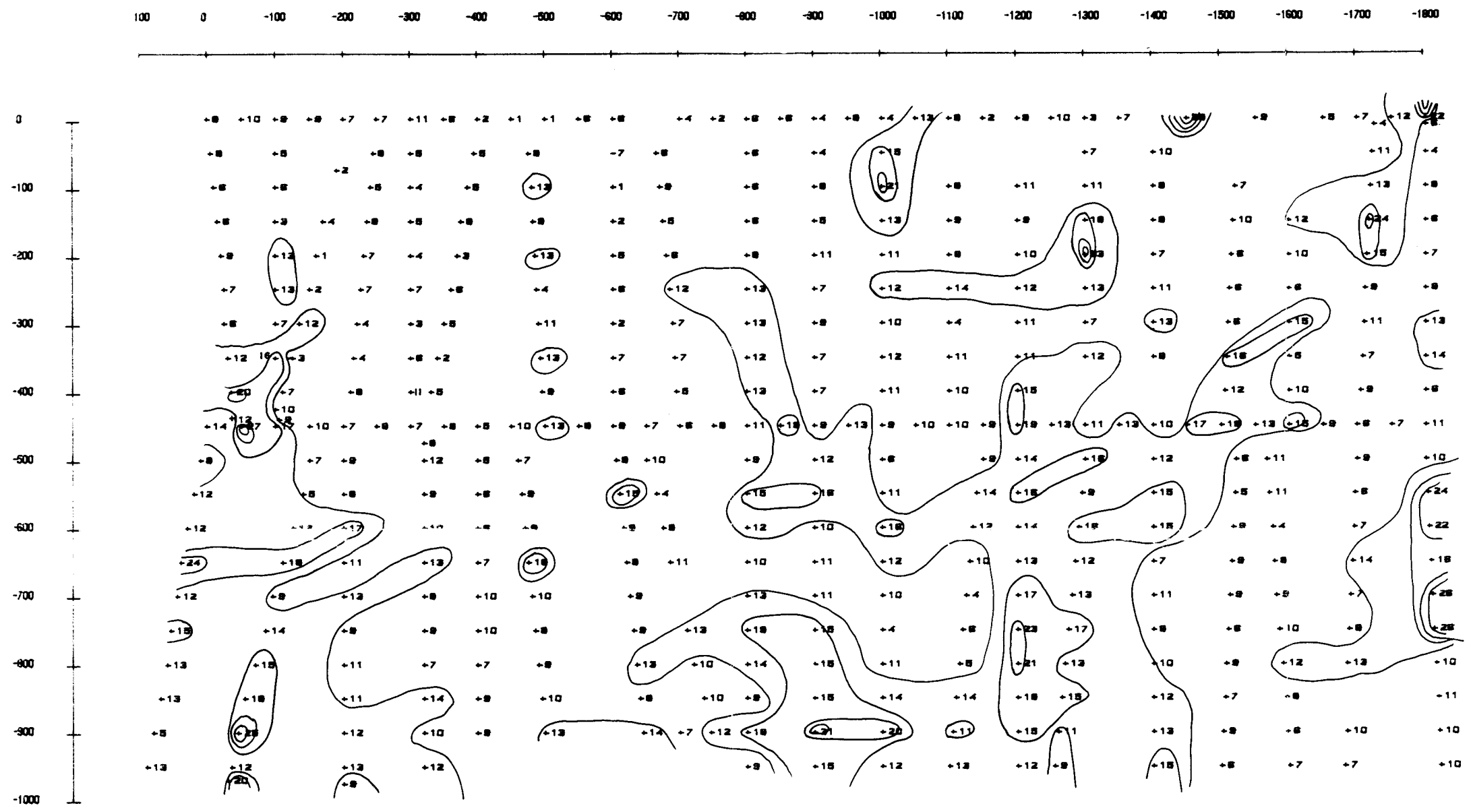


AZIMUTH of BASELINE - 10 Degrees

- >25 ppm -
- >20 ppm -
- >15 ppm -
- >12 ppm -

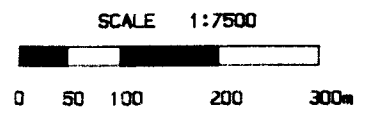


UNITED KENO HILL MINES LIMITED	
BEAR CREEK EAST COPPER GEOCHEMISTRY in ppm	
DRAWN BY: R.H.S.	DATE: Dec. 31/86
N.T.S.: 115 0/14	FIGURE NO.:



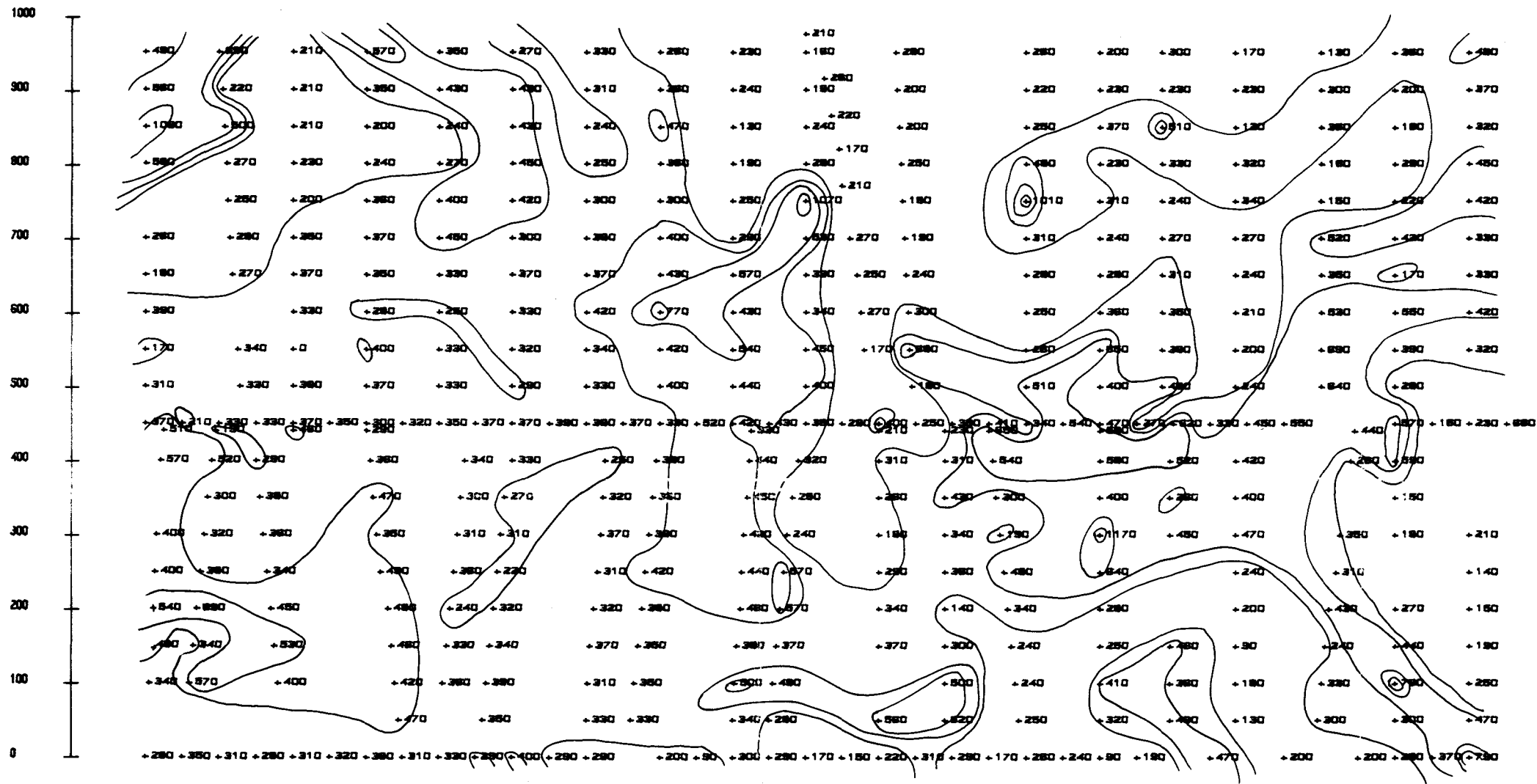
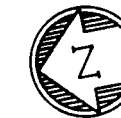
AZIMUTH of BASELINE - 10 Degrees

- >25 ppm -
- >20 ppm -
- >15 ppm -
- >12 ppm -



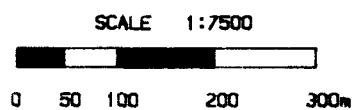
UNITED KENO HILL MINES LIMITED	
BEAR CREEK WEST	
COPPER GEOCHEMISTRY in ppm	
DRAWN BY: R.H.S.	DATE: Jan. 2/87
N.T.S.: 115 0/14	FIGURE NO.:

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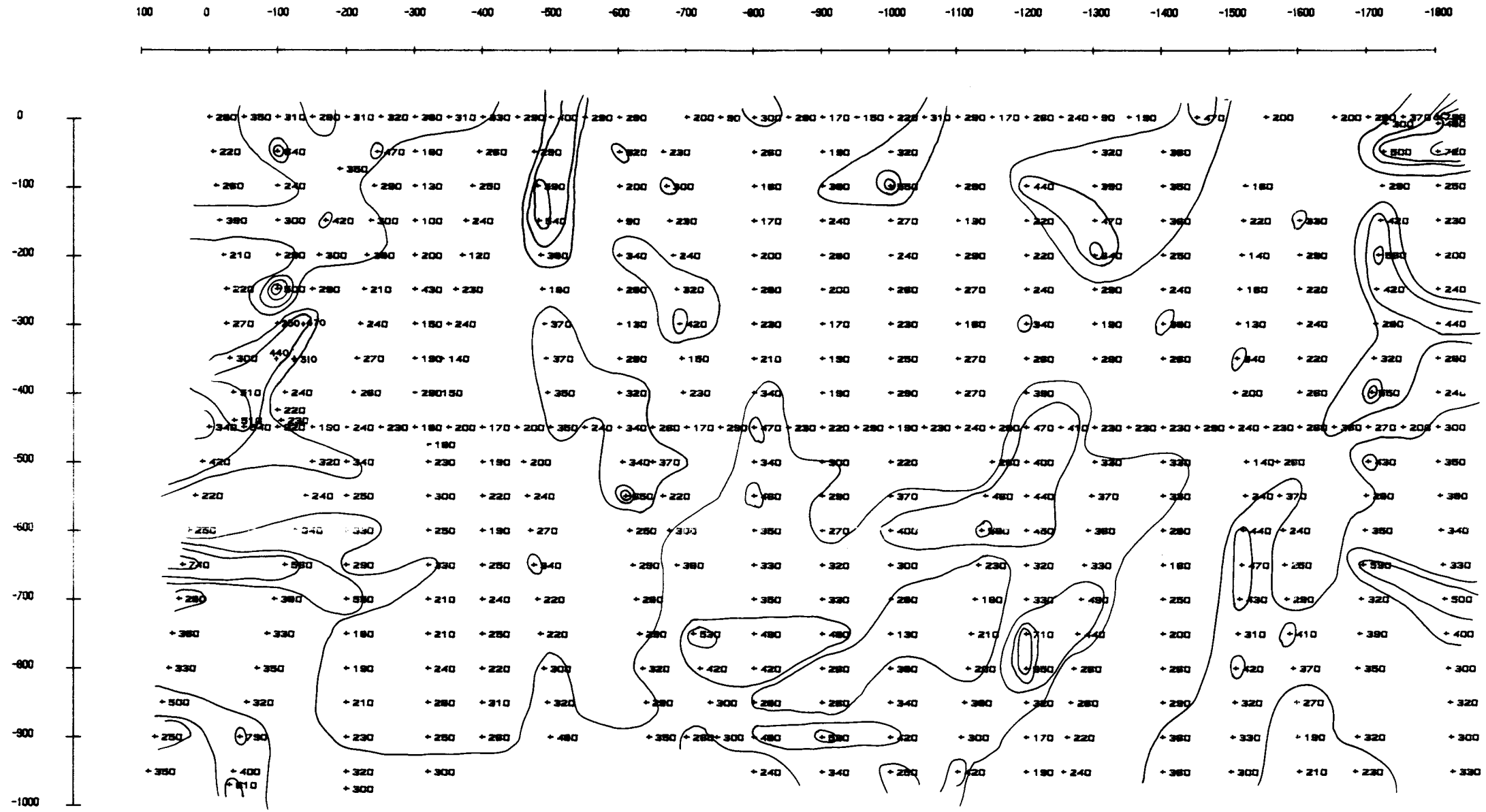


AZIMUTH of BASELINE - 10 Degrees

- >700 ppm -
- >500 ppm -
- >400 ppm -
- >300 ppm -

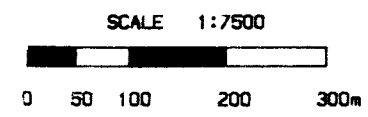


UNITED KENO HILL MINES LIMITED	
BEAR CREEK EAST	
BARIUM GEOCHEMISTRY in ppm	
DRAWN BY: R.H.S.	DATE: Dec. 31/86
N.T.S.: 115 0/14	FIGURE NO.:



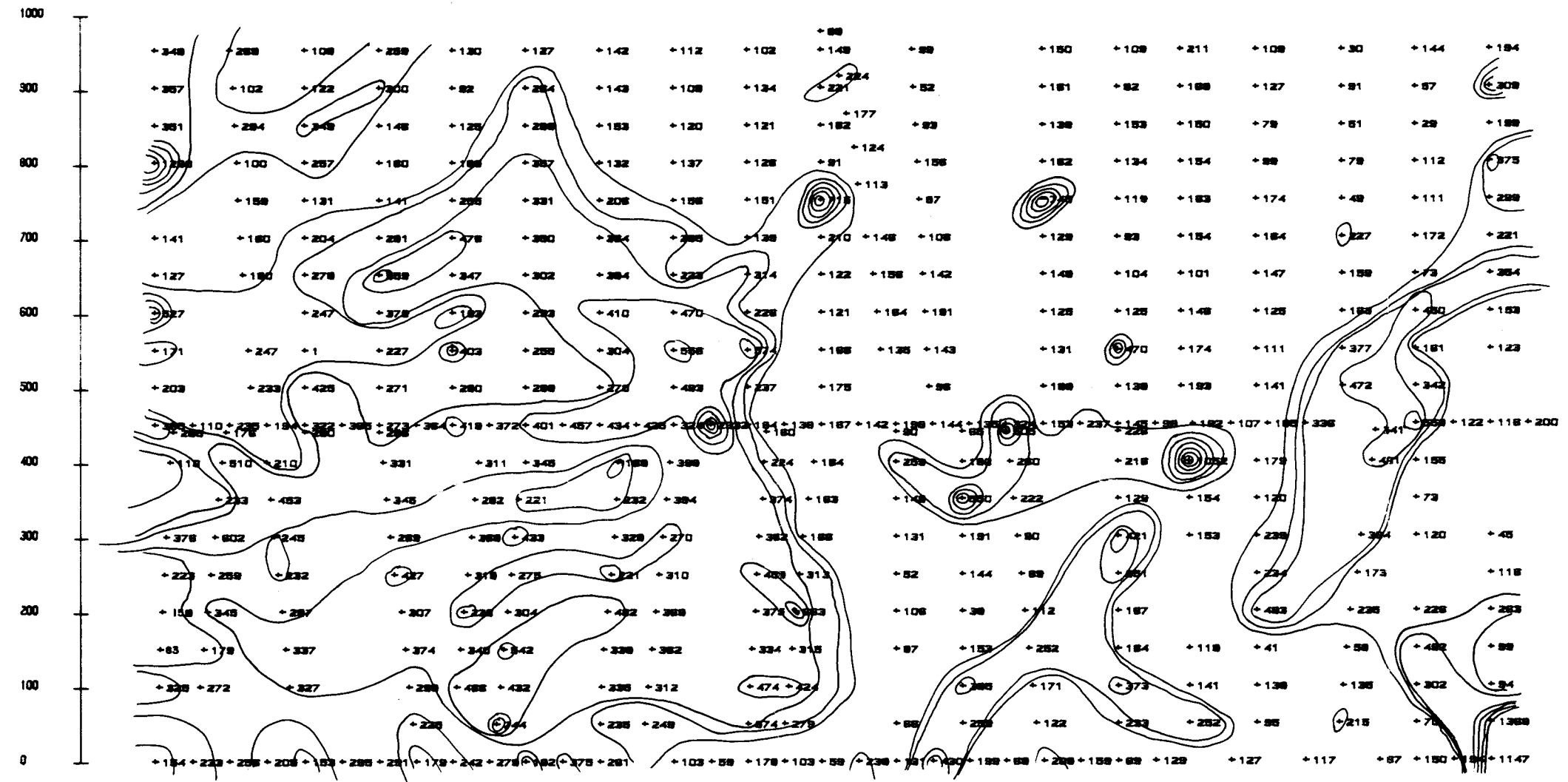
AZIMUTH of BASELINE - 10 Degrees

- >700 ppm -
- >500 ppm -
- >400 ppm -
- >300 ppm -



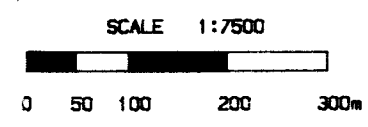
UNITED KENO HILL MINES LIMITED	
BEAR CREEK WEST BARIUM GEOCHEMISTRY in ppm	
DRAWN BY: R.H.S.	DATE: Jan. 2/86
N.T.S.: 1:5 0/14	FIGURE NO.:

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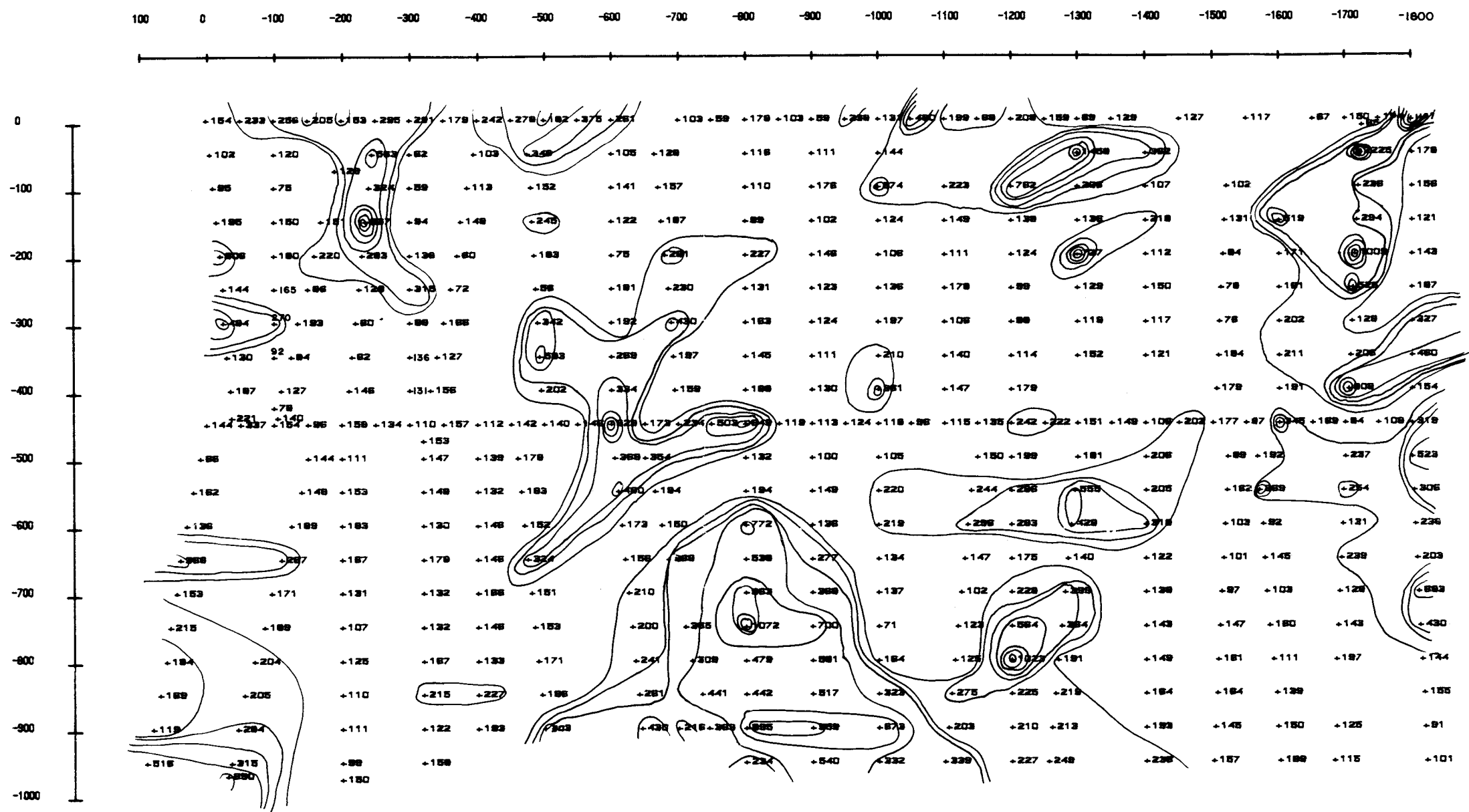


AZIMUTH of BASELINE - 10 Degrees

- >1000 ppm -
- >800 ppm -
- >600 ppm -
- >400 ppm -
- >300 ppm -
- >250 ppm -
- >200 ppm -

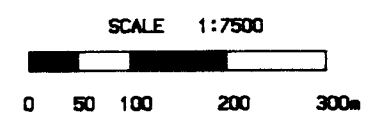


UNITED KENO HILL MINES LIMITED	
BEAR CREEK EAST	
MANGANESE GEOCHEMISTRY in ppm	
DRAWN BY: R.H.S.	DATE: Dec. 31/86
N.T.S.: 115 0/14	FIGURE NO.:



AZIMUTH of BASELINE - 10 Degrees

- >1000 ppm -
- >800 ppm -
- >600 ppm -
- >400 ppm -
- >300 ppm -
- >250 ppm -
- >200 ppm -



UNITED KENO HILL MINES LIMITED	
BEAR CREEK WEST MANGANESE GEOCHEMISTRY in ppm	
DRAWN BY: R.H.S.	DATE: Jan. 5/87
N.T.S.: 115 0/14	FIGURE NO.:

## UNITED KENO HILL MINES LIMITED

were collected. The samples were placed in brown kraft paper envelopes, marked and shipped off for analysis for 31 elements at Chemex Labs in Vancouver.

The results from the analysis were returned to the UKHM office in Whitehorse via modem. This allowed the plotting of selected elements on geochemical plots using a Roland DXY-880 X-Y plotter. Elements plotted are Au, Ag, Pb, Zn, Cu, Ba and Mn. Due to the size of the grid and plotter limitations the grid was divided into east and west sections, labelled Bear Creek East and Bear Creek West. As a result, each element has two hand contoured maps plotted at 1:7500 scale.

Thirteen samples returned over 50ppb Au. Background levels appear to be <1ppb Au. Excluding two anomalies in the very north-west quadrant of the claim group, all the anomalies lay on or to the east of Bear Creek. Permafrost on the western slopes may be masking other anomalies.

The SE quadrant of the study area proved the most interesting, where three elongate NW-SE trending anomalies were found in close proximity and another bulls eye was located nearby. Five of the Au values in this cluster were greater than 100ppb, with two being over 150ppb.

The gold plots outlined several anomalous areas. The anomalous areas are predominantly NW-SE trending, usually no more than 50m wide by several hundred meters long. The best of these anomalous Au areas, located in the SE quadrant of the grid, were cat trenched.

### TRENCHING

Based on the Au anomalies, two cat trenches were put in the south east quadrant of the Bear claims. The trenches were excavated with the intent to expose the source of the three elongate Au anomalies in the area. The two trenches total 1190 linear meters and average seven meters in width and four meters in depth for a total excavation of 33,320 cubic meters. The trenches are located 200 meters apart and run down slope to Bear Creek. Overburden consists of a variable mixture of downslope wedges of colluvium, local loess layers, and lake sediment prisms in flat areas on the hill slope. Generally depths to bedrock averaged 2-3 meters.

Chip samples of bedrock in the trenches were taken at 10m intervals and analysed for 31 elements (see Appendix VII). Areas which appeared geologically interesting were sampled at five meter intervals.

The results of the trenching were encouraging in that the rock

## UNITED KENO HILL MINES LIMITED

sample analysis returned anomalous gold values in several zones. The 185-190 meter interval of Trench One returned 2030ppb Au over a five meter width. The anomalous zone is fifty meters wide. Background values are <1ppb Au. This trench anomaly is approximately coincident with the soil geochemistry anomaly.

The interval was analysed geochemically then assayed and reassayed and returned values of 0.023 and 0.046 ounces per ton Au respectively. Other than a small amount of iron oxides pseudomorphing pyrite cubes, no mineralization was visible. The anomaly appears to be hosted by a particular metamorphic unit with no outstanding features.

Further downslope, a zone anomalous in gold is interpreted to be a fault zone. Due to the incompetent nature of the zone, bedrock could not be reached in Trench One. The zone is 45-50 meters wide and has slightly anomalous gold values associated with it. The highest value is 29ppb in Trench One and 10ppb in Trench Two. Background in the surrounding rocks is <1ppb Au

### CONCLUSIONS

- 1) Two zones of interest were discovered by soil geochemistry and exposed by trenching. Other equivalent soil anomalies exist but were not tested.
- 2) Gold values in one zone appears to be of a strata related nature.
- 3) All of the anomalous Au values in trenched bedrock occur within quartz chlorite gneiss; however all occurrences of this unit are not anomalous.
- 4) The host rocks for the Virgin quartz veins are similar in composition to the rocks on the Bear grid but no gold bearing quartz veins have yet been discovered on the UKHM claims.
- 5) On the east side of Bear Creek the anomalous Au soil areas appear to generally coincide with the distribution of a quartz chlorite gneiss.
- 6) Although soil profiles are complicated by various loess, lake sediments and erosional wedges, soil sampling in the area of the trenches appears to adequately draw attention to bedrock Au mineralized zones.
- 7) The strike extent of the mineralized zone in Trench One is uncertain. The continuity of the zone between the two trenches is also uncertain.

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### RECOMMENDATIONS

- 1) A series of five 200 foot diamond drill holes at fifty meter spacings should be placed along the strike of the mineralized zone and another 400 feet in two holes placed to test the fault zone.
- 2) Estimated costs would be: 1400' X \$50/ft. = \$70,000
- 3) Since the property will be kept in good standing until at least 1991 with the current applicable assessment work, this drill program should be combined with a larger program in the Klondike in order to ensure mob-demob cost effectiveness.
- 4) No other work should be done on any of the other Bear Creek anomalies unless the previously recommended program proves positive.
- 5) If the drill tests prove negative, then the property should be allowed to lapse upon expiry.

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## REFERENCES

McFaul, A.J., 1982. Exploration proposal for the Dawson Area, Internal Report prepared for United Keno Hill Mines Limited, 7 p.

Mortensen, J.K., 1984. Summary Report bedrock geology and soil geochemistry Klondike District, Y.T., Report prepared for United Keno Hill Mines Limited, 12 p.

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APPENDIX I

SHOWING DESCRIPTIONS

A number of exposures of quartz 2 to 6 feet in width occur on this property, but in only a few places could the thicknesses of the veins, and their relations to the wall-rocks be determined; the other known occurrences of quartz were either still more or less covered with superficial materials, or the various shafts, cuts, etc., that had at one time exposed the veins, contained considerable water or other materials that had drained or fallen in since the work was performed. One vein, however, was well exposed in a 25-foot shaft near the cabin; this deposit has an average thickness of about 3 feet, strikes N. 58° W., dips at angles of 60° to 70° to the N.E., and cuts across the foliation planes of the schist wall-rock with every appearance, in the shaft at least, of being a typical regular fissure vein. The wall-rocks everywhere observed are sericitic or chloritic schists.

The quartz outcrops on this property are in most places from 2 to 3 feet in thickness, and represent at least 3 or 4 veins and possibly more. In different portions of the claims exposures of quartz, approximately in alignment, were noted at various intervals extending throughout distances of several hundred feet, but until more development has been performed, it will be impossible to decide whether these lines of exposures each represent one continuous vein or several more or less connected lense-shaped deposits such as characterize the schistose rocks of that district.

The quartz is characteristically white and generally but slightly mineralized; however, in some places, the veins carry considerable disseminated pyrite which where oxidized gives the quartz a reddish iron-stained appearance; occasional particles of galena were also noted.

Concerning the average gold content of the quartz, but little is known. The writer took only three samples from the different veins of the Lloyd group, and all yielded merely traces of gold. However, one of the owners of these claims had what he considered to be an average sample of one of the veins tested during the time I was in Dawson, and this gave \$10.60 in gold to the ton; and other still higher assays are believed to have been obtained at different times. In this connexion, however, it is to be remembered, as previously mentioned, how extremely difficult it is to get satisfactory results from assay samples of low grade free-milling ores; the samples taken by the writer may not be at all representative of the veins from which they were taken. To obtain reliable information concerning such ores, either a great number of assays must be taken, or mill tests must be made.

Considerable prospecting work has been performed upon this group of claims, mainly as follows: about 10 shafts having an average depth of approximately 30 feet have been sunk, the deepest of these being down 56 feet when visited in September; in addition a number of open-cuts and trenches have been dug.

#### *Bear Creek*

A number of quartz claims, probably 30 or 40 in all, owned by John Nicholas and others, have been located on the right limit of Bear creek near the junction of this stream with Lindow creek. The schistose bedrock at different points on these claims, contains deposits of quartz impregnated with more or less pyrite, and in places showing particles of native gold that is occasionally quite crystalline. It is not known what average amounts of gold the veins in this vicinity contain, but it is claimed that a number of promising results have been received.

#### *Dublin Gulch and Vicinity*

Dublin gulch is a tributary of Haggart creek which drains into the south fork of McQuesten river. A considerable number of claims have been located on Dublin gulch and in that vicinity, extending throughout a belt about 8 miles long. This locality has not been visited by the writer, but some quartz deposits near Dublin gulch were examined and reported upon by Mr. Joseph Keele\* of this department in 1904.

During the past two seasons, especially, a number of discoveries that are reported to be very promising have been made in the Dublin Gulch locality, with the result that a considerable renewal of activities and enthusiasm has been evidenced; old claims have been relocated, new claims have been staked, and prospecting has received a decided stimulus. Some of the main claim holders in the district are Dr. Wm. Cotte, Mr. Jack Stewart, and Messrs. Fisher and Sprague.

While in Dawson, the writer was shown a large number of specimens of the ores from Dublin gulch and the surrounding district; these all consisted mainly of quartz carrying varying quantities of mispickel (arsenopyrite or arsenical iron pyrite) and occasional particles of pyrite; the quartz in places was coated with a yellow ferric arsenate. A few typical samples were selected and an average assay has been made from these, which yields 3.98 ounces of gold, or \$79.60 per ton.

\* Keele, J. "The Duncan Creek mining district": Ann. Rept. Geol. Surv., Canada, Vol. XVI, 1904, pp. 38A-39A.

CANADA  
DEPARTMENT OF MINES

HON. LOUIS CODERRE, MINISTER; A. P. LOW, LL. D., DEPUTY MINISTER

MINES BRANCH  
EUGENE HAASEL, PH. D., DIRECTOR.

LODE MINING IN YUKON:

AN INVESTIGATION OF QUARTZ DEPOSITS  
IN THE KLONDIKE DIVISION

*See / including*

BY

T. A. MacLean, M. E.



OTTAWA  
GOVERNMENT PRINTING BUREAU  
1911

39485-11

Gordon

Virgin

Jean I

Green Gulch Corp

Tiger #1

Yellow Jacket

Gold Run Corp

Patterson (Queen Dome) Corp.

Dominion

Box Car

Mitchell Corp

No. 222

Alphons

Bronson - Hultberg

The schists are soft and crumble when exposed to the atmosphere. Those from the dump at the tunnel present characteristics almost identical with some found in the open-cut at the Lone Star mine, Victoria gulch, with the difference that here was noted the green and blue spotted appearance referred to above.

Both quartz and schists carry minerals; those observed being iron and copper pyrites, decomposed or partially oxidized carbonates of copper, and some galena.

*Sampling.*—Five samples numbered 45—49 were taken from the above-mentioned tunnel, and two others, Nos. 63 and 64, from surface exposures on the hillside. (See assay sheet No. 6.) Only one of the lot assayed over a trace in value, e.g. No. 45, located 5 feet from the mouth of the tunnel, assayed 75 cents per ton. *at 375 c/ton*

*Conclusion.*—From the facts outlined above and the absence of free gold in any of the pannings, it may be inferred that, so far at any rate, this prospect has not disclosed anything of economic value.

#### VIRGIN MINERAL CLAIM, BEAR CREEK.

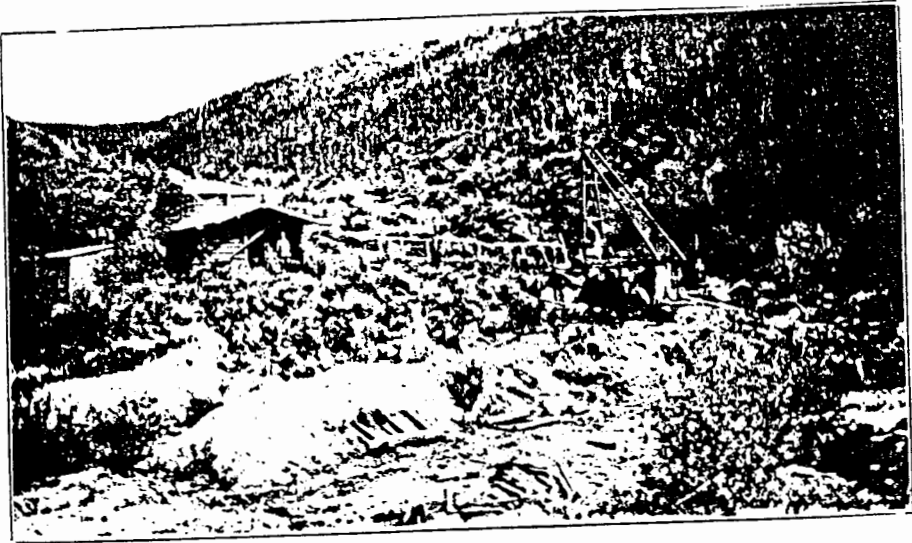
This claim is now owned by Mr. Gus Ericson, who acquired it from Mr. John Whitelaw. During the time of examination in June, Mr. Ericson was not on the property, and no work was being done. At his request it was again visited by appointment on September 24, but his cabin was closed and he was absent.

*Location.*—It is situated on the left limit and near the mouth of Discovery pup where the latter enters the left limit of Bear creek.

It may here be remarked that there are really two pups designated as Discovery, one entering from the right and the other, opposite it, entering from the left limits of Bear.

*Topography.*—The ground rises quite steeply, at an angle probably of 60°, from the creek to a secondary plateau, or bench, elevated some 300 feet higher than the creek bed at the mouth of the pup, and over a portion of this plateau placer mining operations had been conducted by Messrs. Barril and Sauterre, and some 10 or 12 feet in depth of surface, consisting of quartz and schist gravels, and soft schist bed rock, were thus removed over an area of some 600 feet east and west by 100 to 225 feet north and south.

The gravel dump from these workings shows prevalence of chlorite schists interbanded with sericite, and again with quartzose material; a proportion of finely ground up quartz was also noted. The schists of the dumps being comparatively soft, are considerably worn. In size they vary from a couple of inches in diameter, or width, and 1 inch thick, to 6 and 8 inches in greatest diameter, and 2 or 3 inches thick.



Discovery Pup. looking in a N. W. direction up the pup from Bear creek. Keystone drill, in the foreground, is testing the gravels on the right limit of the creek.

Quartz found on the dump is not much worn and the proportion is small. This is a typical example of a characteristic feature of the district, thus appropriately described by Mr. McConnell:—

“A section across the valley of any of the gold bearing streams entering the Klondike shows a comparatively narrow trough-like depression below, from 150 to 300 feet deep bordered on one or both sides by wide benches beyond which the surface rises in easy, fairly regular slopes up to the crests of the intervening ridges. The benches represent fragments of older valley-bottoms partially destroyed by the excavation of the present valley.”

Auriferous gravels occur on the portions of the old valley bottoms still remaining.

*Previous Work.*—Detailed information as to the result of placer operations referred to above are not available, but the work thus performed has assisted materially in later prospecting of the area for the purpose of developing lode values.

A trench cutting this area for a length of 225 feet in the direction S. 80° W. cross-cuts the bed rock and exposes light coloured laminated, and partially decomposed, sericite schists, which strike, generally, in a north-westerly and southeasterly direction.

With these schists occur bands of reddish brown and amethystine coloured schists, in conjunction with quartz stringers and lenses, of similar colourings, probably due to the presence of iron protoxides. The quartz bodies have the general strike of the schists.

Usually, the quartz individuals, though lacking in continuity, occur within a narrow belt of the schists which appears to strike in an easterly direction clear across the pup, as outcroppings are found on the opposite side and at intermediate points for a distance of several hundred feet.

*Development of Quartz.*—Present workings in addition to the placer operations above noted comprise:—

- (1) A shaft.
- (2) A trench 50' S. E. from the shaft.
- (3) A tunnel driven 10' into the hill.

(1) The shaft is sunk near Discovery post to the depth of about 20 feet. The first eight feet contain but little quartz; with increasing depth stringers and bunches were encountered, and, for the last ten feet the

<sup>1</sup> Part B, Ann. Rept. Geol. Survey, Vol. XIV, p. 28a. McConnell on Klondike Gold Fields.

excavation is largely in quartz. For the whole depth the proportion of quartz excavated would be about 40 per cent. A sample, No. 369, taken clear across the bottom, (4' wide) panned good colours of gold.

(2) The prospect trench is 50 feet E. by S. E. from the shaft. It contains bunches of quartz with but little definite form.

The quartz is characteristic of the district as so far described, that is to say, on seams or fracture faces it is generally rusty, though this is, at times, varied by pale to darker brownish, and again reddish colours. The lighter coloured variety usually exhibits a greasy lustre.

Two samples, Nos. 50 and 57, both panned good colours of gold, and a small proportion of iron sulphides.

(3) The tunnel is driven on a system of partially interlacing veins and stringers of quartz, dipping generally N. E., through the schists, at angles of 30° to 60° and having a northwesterly strike.

The face of the tunnel comprises about 25 per cent quartz.

The whole mass of quartz and enclosing schists is much disturbed, broken and crushed, so that little regularity may be counted upon. Schists are of chlorite with lighter bandings of sericite.

The quartz is white and lean looking, except where fissured or fractured, when it is coated with the usual rusty stain, due to the oxidation of sulphide minerals. At times it occurs "frozen" to the schists at the contact.

Minerals noted are pyrites, galena and gold. Four samples were taken from the tunnel, and all showed colours of gold in the pan. The assays are not so uniformly favourable, but sample No. 65, taken from quartz in the face of the tunnel, assayed \$16.58, which, in conjunction with the favourable show from pannings, would indicate that promising results might follow further opening up of this prospect.

Of ten samples taken from the Virgin claim, all but one showed colours of gold in the pan, and while it would be useless to attempt to work out an average value of the deposit from assay results which mostly show only traces, it may be asserted that a mill test of quartz from either of the openings referred to might be expected to demonstrate workable values.

In this connexion it was stated by parties supposed to be in Mr. Ericson's confidence, that he had ordered a mill and expected to have it in operation next season.

#### JEAN I MINERAL CLAIM.

This claim is controlled by Mr. John Whitelaw. It lies along Discovery pup, adjoining the Virgin claim on the south or southwest.

Development work consists of one prospect trench, or open-cut, 40 feet into the side hill, on the left limit of, and about 300 feet from the pup bed. It is about 1,000 feet southerly from the shaft on the Virgin claim, and the elevation is 25 feet below that of the said shaft.

This trench cross-cuts a portion of a ledge of quartz, of an ochreous colour which is much fractured. It strikes northerly and southerly, through the enclosing schists and is illustrated in Fig. 8.

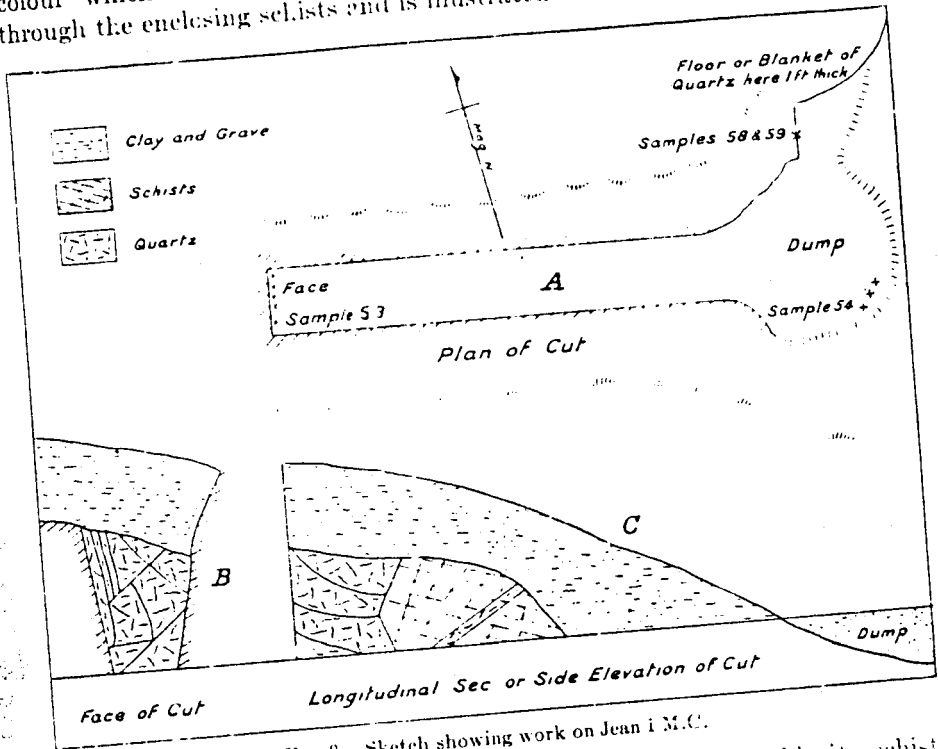


FIG. 8. Sketch showing work on Jean i M.C.

Finely banded quartz schists occur interbanded with chlorite schists and a 2" stringer or sheeted vein of quartz cuts the schists and parallels the main ledge, but dips towards it as shown in sketch. The whole mass shows numerous fracture seams at right angles to the bedding planes or schist folia.

Near the entrance, and a few feet northward of the trench, a small showing of quartz is uncovered. This is characterized by horizontal bedding and is 1' thick. Sufficient work has not been done to properly uncover this ledge so that its probable extent could not be gauged.

One sample was taken from the dump and panned a small show of colours of gold, with assay a trace. Three other samples taken gave only traces when assayed and nothing but a slight show of pyrite minerals in the pan.

(See Samples 53, 54, 55, 59 on assay sheet No. 7.)

## CREEK SECTION.

About 400 yards up Bear creek, beyond the mouth of Discovery pup, and on the right limit of the creek, occurs an outcrop of 'country' which was reported locally as being a likely prospect. A section is here shown as typical, and indicating some regularity of formation. On examination, however, nothing was seen in the nature of a gold prospect.

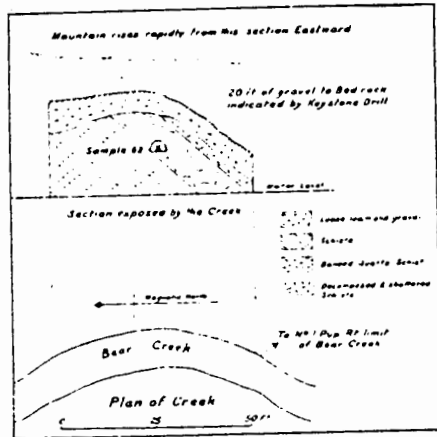


FIG. 9. Outcrop of schists, Bear creek.

This cross-section is exposed as a result of the creek having cut its way through the bed rock. It is characterized by micaceous or sericitic schists, similar to those described as occurring at Victoria gulch, and here thrown up at an angle of  $40^{\circ}$  to  $50^{\circ}$ , the dip being S. E. and the strike about N.  $80^{\circ}$  E., the schist folia running regularly with the dip. This micaceous schist rock is overlain conformably by a bed of either banded quartz schists, or laminated schistose quartzite firm and regular for a thickness of 8 feet, an additional 2 feet on the upper side being decomposed and crushed. This upper schist is interbanded with thin sheets and stringers of quartz. About 6 feet of loose gravel and loam form the surface overburden. The southern end of the section is adjacent to No. 1 pup at its entry on the right limit of Bear creek.

A small prospect opening had been started about the centre of the above section, and from this, one sample, No. 62, was taken, which proved of no value.

w/6 VIRGIN, JEAN Fractured, rusty weathering milky white quartz occurs as small discontinuous and anastomosing, veinlets and narrow massive to vuggy veins, which in places comprise up to 25% of the chlorite muscovite-feldspar-quartz schist. Pyrite, and minor amounts of galena and chalcopryrite are present in the quartz. MacLean reported one sample of quartz vein material to assay 25.5 g/t Au and 10.0 g/t Ag.

7 GORDON Reddish feldspar-quartz schist contains discontinuous thin stringers of quartz up to 7 cm thick. MacLean noted the presence of malachite, azurite, iron oxides, pyrite, chalcopryrite, and galena in both the quartz and schist.

Property Name: Common VIRGIN Other  
Location: Lat. 64°00' Long. 139°14' NTS 116B/3  
Metals: Major Gold Minor Silver  
Type of Mineral Deposit: Vein

History and Previous Work:

Staked as Ophir, etc cl(597) in June/01, Gordon cl(6981) in May/04, Virgin cl(10862) in May/08 and Jean cl(11141) in Aug/09 by J. Whitelaw, who completed two adits (40 ft and 10 ft), a 20 ft shaft, a 40 ft long open-cut and a number of trenches in 1902-07. A two stamp mill was installed during 1913 by Klondike Gold Quartz ML, which sank a second shaft to 35 ft, extended one of the adits to 290 ft and is rumoured to have recovered about \$5,000 in gold. The property was purchased in 1914 by Bear Creek Mg CL, which added a few claims and surveyed and leased several in 1915. The property later reverted again to Klondike Gold Quartz which reorganized in 1934 and attempted to install a larger mill.

Restaked as Hun cl(Y65318) in May/72 by R.G. Hilker for Sullivan and Rogers, who conducted mapping and geochem sampling later in the year and trenching in 1973; and as Gos cl (YA5138) in July/76 by F. Burkhard. F. Merryth tied on Long cl (YA4691) in May/80 and Dawson Eldorado added Easy & Klot cl (YA65445) in Feb/83 and performed mapping and geochem surveys later in the year.

Description:

The area is underlain by blocky quartz-muscovite (chlorite) schist with small quartz augen and abundant narrow foliaform barren quartz and quartz-feldspar sweats.

The old workings on the property are either completely caved or have been covered by placer tailings. The workings were visited briefly by MacLean (1914) and Bostock (1935), and the results of these examinations are summarized below. During MacLean's visit in 1912, the workings consisted of a shaft 7 m deep near the Discovery post on Bear Creek, a trench immediately SE of the shaft, and a short (3.2 m) adit. MacLean stated that in the shaft "the first 8 ft contained but little quartz; with increasing depth, stringers and bunches were encountered, and, for the last 10 ft the excavation is largely in quartz...A sample taken clear across the bottom (4 ft wide), panned good colours of gold." Two samples of quartz vein from the trench yielded gold colours by panning. In the adit, veins and stringers of quartz were observed and these comprised up to 25% of the rock at the face. Four samples were taken from the adit by MacLean and all showed good colours in the pan. Gold content of samples collected from the property varied considerably, but two samples from the adit were reported by MacLean to have assayed 0.8 and 0.9 oz/ton Au.

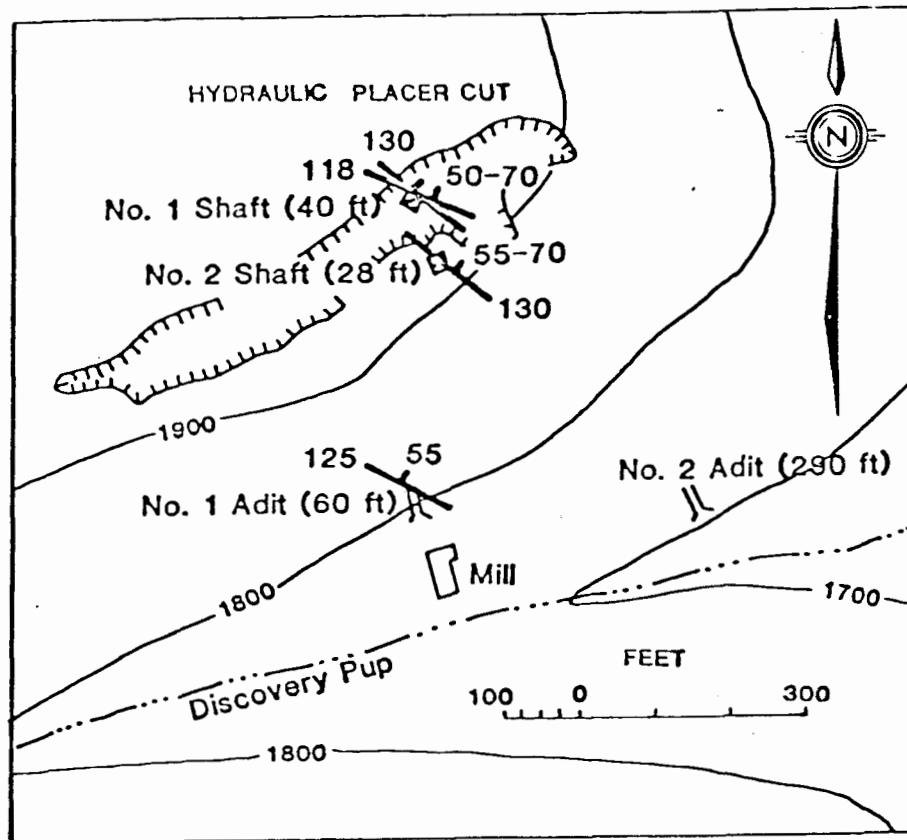
Bostock (1935) examined the property during the period that Klondike Gold Quartz Mines was developing it. Workings on the slope at that time are shown in the Figure on the following page.

(cont...)

Property Name:

VIRGIN

NTS: 116B/3

Description (cont'd):

As a result of his examination, Bostock stated:

"In the sides of shaft No. 1 (see Figure) the northern of the two shafts, three quartz veins are visible. They are 4 to 14 inches wide, strike between 118 and 130 degrees, and dip northeast at angles of 50 to 70 degrees. Shaft No. 2 is about 70 ft south and 30 ft east of shaft No. 1. On the south side of Shaft No. 2 there are two quartz veins 8" and 14" wide and 16" apart. They strike 130° and dip northeast at angles of respectively 55° and 70°. Approximately 25 ft southward along the strike two veins are exposed. These resemble and probably are continuations of the two veins seen in No. 2 shaft. The quartz of the veins is dense and white. A very few crystals of pyrite are present in the quartz in places and some iron stain occurs along fractures. It is reported that specks of free gold can be found in fractures in the veins.

A large, trench-like excavation about 90 ft lower than and southeast of the shafts, and made where the veins in the shafts might be expected to occur, reveals a mass of quartz float and, in two places, quartz that may be in place. This quartz holds a little pyrite.

(cont...)

Property Name:VIRGINNTS: 116B/3Description (cont'd):

No. 1 adit is approximately 110 ft lower than, and 325 ft south from, No. 2 shaft. The adit is 30 ft long and runs northwest directly into the hill. At its inner end a group of small veins, of quartz like that of the other veins described, occur. The veins are 1 to 4 inches wide, occur across a width of 45", strike 125°, and dip northeast at an angle of 55°.

The entry of No. 2 adit is approximately 600 ft southeast of No. 2 shaft and at an elevation of about 1,720 ft. From the portal the adit runs directly into the hill. It follows a course of 328° for approximately 200 ft and at the end of this distance bends to the northeast and continues along this course for nearly 90 ft. This adit, like the other workings, is in green schists. It cuts across a number of small, corrugated veins and lenses of quartz that tend to follow the planes of schistosity in the schists. In a few places large cubes of pyrite occur in the veins and in the schists. No veins in No. 2 adit were noted to cut across the schists in the direction followed by the veins in the shafts."

Klondike Gold Quartz Mines, which did further development on the property after Bostock, presented the following Au assay data in a company prospectus prepared in late 1934 or early 1935:

Shaft No. 1 - grab(?) samples taken at 2 ft intervals from surface to a depth of 40 ft; total of 24 samples, range 0.11 to 7.59 oz/ton, avg. 0.89 oz/ton

Shaft No. 2 - grab(?) samples taken at 2 ft intervals from surface to depth of 28 ft; total of 10 samples, range 0.21 to 2.21, avg. 0.77

No. 1 adit - grab(?) samples taken at roughly 10 ft intervals from 25 ft from portal to 60 ft; total of 5 samples, range 0.61 to 1.31, avg. 0.95

No. 2 adit - channel samples taken at 10 ft intervals over 140 ft interval from 70 ft from portal to 210 ft from portal; total of 15 samples, range 0.61 to 2.92, avg. 1.07 oz/ton

- channel samples at 5 ft intervals over 70 ft interval along crosscut beginning at 210 ft from portal; total of 15 samples, range 0.61 to 5.42, avg. 1.19 oz/ton.

As stated above, the workings on the property are presently inaccessible and it is therefore impossible to verify these rather impressive assay results. In view of Bostock's description of the workings, however, the validity of these assays is somewhat questionable.

In summary, gold-bearing, discordant, slightly pyritic quartz veins occur at several locations on the property. Galena is locally present in trace amounts. The veins strike northwesterly, dip moderately to steeply to the northeast, and range from 2 to 40 cm in thickness.

(cont...)

Property Name:VIRGINNTS:

116B/3

Description (cont'd):

Blocks of vein quartz, which are apparently locally derived and contain trace amounts of pyrite as cubes and grain aggregates to 2 cm in diameter, are present near Shaft No. 2 (see Figure). Some of these blocks are from discordant veins as much as 1 m in thickness suggesting the presence of relatively large veins in the immediate vicinity. The significance, if any, of the assay results quoted by Klondike Gold Quartz Mines remains uncertain. Gold is definitely present in at least micro-amounts in some of the vein material at the mouth of Discovery Pup (as noted by MacLean), and visible gold (associated with pyrite) has been found in discordant vein material in the chute into the ore bin at the old mill. Bostock's description of the wallrock in the No. 2 adit, however, suggests that all of the quartz present there is foliaform, and thus is unlikely to contain gold. The waste dump of the No. 2 adit has been removed during placer mining and therefore cannot be sampled.

References:

"Lode Mining in Yukon" by T.A. MacLean, Mines Branch, Pub. 222, 1914, pp 41-49  
M178, pp 5-7

"The Yukon Territory - Its History and Resources", Dept. of Interior, 1916, pp 140-141

Property Name: Common LINDOW Other  
Location: Lat. 63°59' Long. 139°13' NTS 115 0/14  
Metals: Major Gold Minor  
Type of Mineral Deposit: Uncertain

History and Previous Work:

First staked as the Fortune (12128), Homestake (12125), etc in July/11 by J. Nicholas and others. No assessment work was ever recorded. Restaked as Klot 9-42 (YA80613) by Archer, Cathro & Associates (1981) Ltd. and Bea 1-16 (YA86654) by United Keno Hill ML, both in June/84.

Description:

The geology of the area consists of quartz-feldspar augen-bearing quartz-muscovite-chlorite schist which is overlain by rusty weathering muscovite and muscovite quartz schist. A discontinuous band of carbonaceous phyllite occurs along the contact between the two units. The sequence is deformed into tight north-trending folds. The valleys of Bear and Lindow Creeks follow a synclinal infold of the relatively recessive muscovite schist unit. Quartz veins are abundant in the rocks, occurring predominantly as foliaform metamorphic veins.

At least 20 claims were staked in the area in 1911 following the discovery of gold-bearing quartz on the Fortune claim. A newspaper account reported assays of 0.77 oz/ton Au and 0.20 oz/ton Ag from a rock in which no gold was visible. Cairnes examined the occurrence in 1911 and observed quartz veins with pyrite and visible gold, some of which was quite crystalline. Crystalline gold is relatively common in placer deposits in Bear Creek and may be derived in part from this occurrence.

References:

"Quartz Mining in the Klondike District" by D.D. Cairnes, GSC Sum Rept for 1911, pp.17-40; 1912  
 Dawson Daily News, 1911

REVISED 1986

Occurrence No. 130

Property Name: Common LINDOW Other

Location: Lat. 63°59' Long. 139°13' NTS 115 0/14

Metals: Major Minor

Type of Mineral Deposit:

History and Previous Work:

\*\* The Homestake, Fortune, etc cl (12125) were staked in this vicinity in July/11 by J. Nicholas. Restaked as Bea cl (YA80654) in June/84 by a joint venture between United Keno Hill ML & Falconbridge L. Dawson Eldorado Gold EL tied on Klot cl (YA80622) to the east in June/84, and Dawson Synd tied on Zip cl (YA84428) to the west in Aug/84 and restaked the Klot group as Comet cl (YA87834) in Feb/86.

Description:

The area is underlain by quartz and feldspar augen-bearing quartz-muscovite-chlorite schist which is overlain by rusty weathering muscovite and muscovite-quartz schist. A discontinuous band of carbonaceous phyllite occurs along the contact between the two units. The sequence is deformed into tight north-trending folds. The valleys of Bear and Lindow Creeks follow a synclinal infold of the relatively recessive muscovite schist unit. Quartz veins are abundant in the rocks, occurring predominantly as foliaform metamorphic sweats.

References:

Dawson Daily News, 27 July/11  
Sum Rept, 1912, pp.17-40  
\* YEG 1984 (Open File)

UNITED KENO HILL MINES LIMITED

APPENDIX II

TOTAL BEAR CREEK PROGRAM COSTS

Accommodation	\$ 3,840.00
Communication	\$ 160.39
Salary	<u>\$ 7,700.00</u>
Sub-total:	\$11,700.39
Assays	\$ 4,877.00
Transport	<u>\$ 1,128.90</u>
Sub-total:	\$ 6,005.90
Vehicle Rental	\$ 3,105.68
Gas and Oil	<u>\$ 1,430.67</u>
Sub-total:	\$ 4,536.35
Cat Trenching	\$25,520.00
Road (D6)	\$ 937.50
Mob. and Demob.	<u>\$ 1,350.00</u>
Sub-total:	\$27,807.50
Total Cost:	\$11,700.39
	\$ 6,005.90
	\$ 4,536.35
	<u>\$27,807.50</u>
	\$50,050.14

Mapping and Sampling Portion of costs to June 16, 1986  
\$27,567.32

UNITED KENO HILL MINES LIMITED

APPENDIX III

TRENCHING COSTS

Cat Trenching:  
Total Cost           \$35,405.22  
Total Length         1,190 meters

Cost/meter: \$35,405 / 1,190m = \$29.75/m

UNITED KENO HILL MINES LIMITED

APPENDIX IV

PERSONNEL

Geological Mapping By:

Thomas C. Stubens: program supervisor  
#102 1234 West 14th Ave.  
Vancouver, British Columbia  
V6H 1P9

David Kenney: trenching supervisor  
1275 Southwood Drive  
Ottawa, Ontario  
K2C 3C4

Alan Coutts: geologist  
#4724 139th Street  
Edmonton, Alberta  
T6H 3Z2

Christopher McAtee: geologist  
General Delivery  
Whitehorse, Yukon

Dennis Ouellette: project geologist  
Box 4155  
Whitehorse, Yukon  
Y1A 3S9

Geological Assistance By:

Garth Thompson: binocular microscope work  
#11708 26th Avenue  
Edmonton, Alberta  
T6J 3R5

Doug Davis  
#419 Pembina Hall  
Edmonton, Alberta

Bruce Mezei  
Apt. #307  
10711 Saskatchewan Drive  
Edmonton, Alberta

Brad Skeeles  
2962 West 30th Avenue  
Vancouver, British Columbia  
V6L 1V4

UNITED KENO HILL MINES LIMITED

Project supervised by:

Dennis R. Prince: geologist  
13 Koidern Avenue  
Whitehorse, Yukon  
Y1A 3N7

Support by:

Holly Plaskett: drafting  
36 Redwood Street  
Whitehorse, Yukon  
Y1A 4B3

Robert H. Stirling: expediting  
36 Redwood Street  
Whitehorse, Yukon  
Y1A 4B3

UNITED KENO HILL MINES LIMITED

APPENDIX V

CONTRACTORS

Geochemical Analysis By:

Chemex Labs Limited  
212 Brooksbank Ave.  
North Vancouver, B.C.  
V7J 2C1

Bondar-Clegg & Company Limited  
136 Industrial Road  
Whitehorse, Yukon  
Y1A 2V1

Trenching Contractor:

Klondike Transport  
Box 206  
Dawson City, Yukon  
Y0B 1G0  
993-5347  
Harry Campbell; Owner-operator.

UNITED KENO HILL MINES LIMITED

APPENDIX VI

SAMPLE LISTING



# Chemex Labs Ltd.

-Analytical Chemists -Geochemists -Registered Assayers

212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J2C1

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

Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2M2

CERT. # : A8614174-001-A  
INVOICE # : 13614174  
DATE : 13-JUL-86  
P.O. # : NONE  
P-53

Bear Creek Soil

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

COMMENTS :

Sample description	Nu HAA	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn		
	ppb	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm			
C 87001	<1	0.85	0.2	<10	480	<0.5	<2	0.17	<0.5	2	10	8	1.49	<10	0.10	30	0.17	83	<1	<0.01	7	150	30	<10	12	0.02	<10	<10	20	<10	20	--
C 87002	3	0.93	0.2	10	540	<0.5	<2	0.17	<0.5	4	15	8	1.77	<10	0.08	30	0.21	158	<1	0.01	10	230	26	<10	12	0.03	<10	<10	28	<10	30	--
C 87003	4	1.16	0.6	10	400	<0.5	<2	0.50	<0.5	6	239	15	1.85	<10	0.14	30	0.32	223	1	0.03	19	710	14	<10	24	0.05	<10	<10	24	<10	50	--
C 87004	1	1.23	0.2	10	400	<0.5	<2	0.46	<0.5	3	24	16	2.21	<10	0.05	30	0.40	276	<1	0.02	18	580	12	<10	28	0.06	<10	<10	44	<10	60	--
C 87006	1	1.28	0.4	10	510	<0.5	<2	0.30	<0.5	6	16	12	1.82	<10	0.29	30	0.24	235	<1	0.01	12	750	19	<10	26	0.04	<10	<10	30	<10	50	--
C 87008	4	0.95	0.2	10	390	<0.5	<2	0.40	<0.5	11	17	11	1.64	<10	0.12	30	0.21	527	<1	0.01	10	1030	24	<10	27	0.03	<10	<10	20	<10	40	--
C 87009	<1	1.08	0.2	10	180	<0.5	<2	0.24	<0.5	3	18	9	1.47	<10	0.07	20	0.26	127	<1	0.01	9	470	10	<10	18	0.06	<10	<10	29	<10	40	--
C 87010	9	1.17	0.2	10	260	<0.5	<2	0.31	<0.5	4	18	9	1.64	<10	0.08	40	0.35	141	<1	0.01	11	580	18	<10	23	0.05	<10	<10	28	<10	50	--
C 87013	2	0.51	0.4	10	580	<0.5	<2	4.14	<0.5	2	14	22	0.79	10	0.06	<10	0.23	1280	1	0.06	10	870	12	<10	149	0.01	<10	<10	11	<10	30	--
C 87014	2	0.87	0.2	10	1090	<0.5	<2	1.26	<0.5	2	12	14	1.98	10	0.21	70	0.22	251	<1	0.01	6	530	20	<10	119	0.01	<10	<10	10	<10	50	--
C 87015	1	1.51	0.2	10	560	<0.5	<2	0.22	<0.5	5	20	12	2.20	10	0.20	30	0.28	357	<1	0.01	13	250	30	<10	30	0.02	<10	<10	31	<10	50	--
C 87016	<1	1.25	0.2	10	490	<0.5	<2	0.17	<0.5	6	12	11	2.27	<10	0.10	20	0.52	348	<1	0.01	19	320	24	<10	17	0.02	<10	<10	22	<10	70	--
C 87017	<1	0.58	0.2	10	690	<0.5	<2	1.85	<0.5	5	13	13	1.65	<10	0.16	30	0.22	268	<1	0.02	9	590	20	<10	135	0.01	<10	<10	17	<10	50	--
C 87018	5	1.17	0.2	<10	220	<0.5	<2	0.20	<0.5	3	15	9	1.38	<10	0.12	20	0.22	102	<1	0.01	9	460	20	<10	20	0.03	<10	<10	21	<10	40	--
C 87019	2	1.06	0.2	10	500	<0.5	<2	0.26	<0.5	5	41	12	1.42	<10	0.22	20	0.19	294	<1	0.01	9	1080	19	<10	22	0.02	<10	<10	17	<10	50	--
C 87020	2	1.25	0.2	10	270	<0.5	<2	0.24	<0.5	4	17	9	1.92	<10	0.10	30	0.34	100	<1	0.01	10	540	14	<10	22	0.02	<10	<10	25	<10	40	--
C 87021	4	1.30	0.2	10	250	<0.5	<2	0.25	<0.5	6	20	11	1.31	10	0.11	30	0.23	159	<1	0.01	12	540	12	<10	21	0.05	<10	<10	36	<10	60	--
C 87022	1	1.44	0.2	10	280	<0.5	<2	0.29	<0.5	6	34	10	1.37	<10	0.07	20	0.41	160	<1	0.01	14	510	14	<10	27	0.08	<10	<10	43	<10	50	--
C 87023	11	1.22	0.2	10	270	<0.5	<2	0.21	<0.5	6	20	10	1.86	<10	0.07	20	0.23	180	<1	0.01	13	510	10	<10	23	0.06	<10	<10	41	<10	50	--
C 87025	<1	1.72	0.2	20	340	<0.5	<2	0.29	<0.5	9	31	16	2.63	<10	0.08	20	0.43	247	1	0.01	19	550	10	<10	28	0.10	<10	<10	62	<10	60	--
C 87026	8	1.27	0.2	10	330	<0.5	<2	0.27	<0.5	7	26	18	1.02	<10	0.07	20	0.34	233	1	0.01	16	510	9	<10	26	0.09	<10	<10	49	<10	50	--
C 87027	5	1.25	0.2	10	190	<0.5	<2	0.24	<0.5	5	28	3	1.39	<10	0.07	20	0.36	176	<1	0.01	13	500	8	<10	23	0.09	<10	<10	51	<10	50	--
C 87028	2	0.83	0.2	10	520	<0.5	<2	1.20	<0.5	6	20	22	1.59	<10	0.26	20	0.34	510	1	0.04	12	1180	10	<10	66	0.05	<10	<10	20	<10	70	--
C 87029	2	1.49	0.2	10	300	<0.5	<2	0.28	<0.5	8	27	12	2.29	<10	0.06	20	0.40	233	<1	0.01	16	540	10	<10	26	0.09	<10	<10	50	<10	60	--
C 87030	2	1.38	0.2	10	320	<0.5	<2	0.45	<0.5	11	26	12	2.24	<10	0.08	20	0.40	602	1	0.01	16	510	12	<10	29	0.09	<10	<10	57	<10	60	--
C 87031	3	1.62	0.2	10	380	<0.5	<2	0.41	<0.5	8	30	14	2.61	<10	0.09	30	0.43	259	1	0.01	18	530	14	<10	28	0.09	<10	<10	56	<10	60	--
C 87032	4	1.27	0.2	10	690	<0.5	<2	0.44	<0.5	7	25	17	2.31	<10	0.10	50	0.36	245	<1	0.01	18	470	20	<10	31	0.06	<10	<10	12	<10	50	--
C 87033	2	0.77	0.2	<10	340	<0.5	<2	0.42	<0.5	4	14	9	1.55	<10	0.21	30	0.21	179	<1	0.01	9	320	26	<10	22	0.02	<10	<10	21	<10	30	--
C 87034	72	1.08	0.2	10	570	<0.5	<2	0.64	<0.5	5	20	14	1.76	10	0.15	50	0.28	272	<1	0.01	13	410	26	<10	49	0.03	<10	<10	28	<10	40	--
C 87035	2	1.02	0.2	10	210	<0.5	<2	0.23	<0.5	4	14	8	1.58	<10	0.09	20	0.23	108	<1	0.01	9	570	14	<10	20	0.04	<10	<10	27	<10	40	--
C 87036	2	1.23	0.2	10	210	<0.5	<2	0.23	<0.5	4	19	8	1.82	<10	0.08	20	0.28	122	<1	0.01	11	540	16	<10	20	0.06	<10	<10	34	<10	40	--
C 87037	5	1.29	0.2	10	210	<0.5	<2	0.24	<0.5	8	21	9	2.08	<10	0.11	30	0.29	349	<1	0.01	11	490	22	<10	21	0.08	<10	<10	44	<10	50	--
C 87038	10	1.25	0.2	10	230	<0.5	<2	0.29	<0.5	6	21	10	2.04	<10	0.11	20	0.31	257	1	0.01	12	590	16	<10	23	0.07	<10	<10	41	<10	50	--
C 87039	2	1.50	0.2	<10	200	<0.5	<2	0.29	<0.5	5	24	9	1.95	<10	0.08	20	0.35	131	<1	0.01	14	510	12	<10	23	0.08	<10	<10	45	<10	50	--
C 87040	9	1.50	0.2	10	350	<0.5	<2	0.45	<0.5	7	25	9	2.05	<10	0.07	20	0.42	204	<1	0.01	14	510	9	<10	31	0.09	<10	<10	47	<10	60	--
C 87041	1	1.22	0.2	10	370	<0.5	<2	0.52	<0.5	8	22	14	2.20	<10	0.06	20	0.34	278	<1	0.01	16	840	8	<10	36	0.05	<10	<10	37	<10	50	--
C 87042	2	1.26	0.2	10	230	<0.5	<2	0.45	<0.5	9	26	16	2.16	<10	0.05	20	0.39	247	<1	0.01	17	670	8	<10	29	0.08	<10	<10	49	<10	50	--
C 87043	5	<0.01	0.2	<10	<10	<0.5	<2	<0.01	<0.5	<1	2	<1	<0.01	<10	<0.01	<10	<0.01	1	<1	<0.01	<1	10	<2	<10	<1	<0.01	<10	<10	<1	<10	<10	--
C 87044	4	1.48	0.2	10	380	<0.5	<2	0.60	<0.5	11	30	20	2.59	<10	0.07	20	0.51	425	<1	0.02	22	730	10	<10	36	0.09	<10	<10	53	<10	60	--
C 87045	2	1.53	0.2	10	460	<0.5	<2	0.60	<0.5	10	31	27	2.49	<10	0.09	20	0.43	280	<1	0.02	25	540	10	<10	35	0.10	<10	<10	54	<10	60	--

Certified by *Stuart B. ...*



# Chemex Labs Ltd.

\*Analytical Chemists \*Geochemists \*Registered Assayers

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

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

## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614174-002-A  
INVOICE # : 18614174  
DATE : 13-JUL-86  
P.O. # : NONE  
P-53

Bear Creek Soil

Semi quantitative multi element ICP analysis

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

COMMENTS :

Sample description	Au	Hg	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn
	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
C 87046	4	1.18	0.2	10	290	<0.5	<2	0.44	<0.5	6	24	14	2.22	<10	0.05	20	0.41	210	<1	0.01	18	710	10	<10	27	0.08	<10	<10	43	<10	60	--
C 87047	2	1.28	0.2	10	380	<0.5	<2	0.40	<0.5	9	25	24	2.27	<10	0.05	20	0.36	453	<1	0.01	20	730	8	<10	25	0.07	<10	<10	46	<10	60	--
C 87048	5	1.60	0.2	10	360	<0.5	<2	0.44	<0.5	8	21	14	2.74	<10	0.08	20	0.47	245	<1	0.01	20	520	10	<10	29	0.09	<10	<10	57	<10	60	--
C 87049	5	1.44	0.2	10	340	<0.5	<2	0.34	<0.5	7	26	12	2.44	<10	0.12	20	0.32	322	<1	0.01	18	590	24	<10	26	0.07	<10	<10	47	<10	60	--
C 87050	146	1.22	0.2	10	450	<0.5	<2	0.52	<0.5	6	24	14	2.24	<10	0.12	40	0.26	287	<1	0.01	18	490	22	<10	44	0.06	<10	<10	42	<10	60	--
C 87051	<1	1.27	0.2	10	530	<0.5	<2	0.35	<0.5	7	26	19	2.20	<10	0.11	40	0.40	337	<1	0.01	19	530	20	<10	67	0.05	<10	<10	40	<10	60	--
C 87052	7	1.24	0.2	10	400	<0.5	<2	1.01	<0.5	8	26	14	2.31	<10	0.11	30	0.38	327	1	0.01	15	580	18	<10	87	0.06	<10	<10	45	<10	60	--
C 87053	7	1.48	0.2	10	290	<0.5	<2	0.49	<0.5	9	30	15	2.48	<10	0.07	20	0.48	286	<1	0.01	21	680	10	<10	31	0.09	<10	<10	56	<10	70	--
C 87054	3	1.57	0.2	10	360	<0.5	<2	0.57	<0.5	11	34	22	2.78	<10	0.09	20	0.55	331	<1	0.02	26	620	12	<10	33	0.10	<10	<10	58	<10	70	--
C 87055	6	1.64	0.2	10	470	<0.5	<2	0.73	<0.5	11	37	31	2.96	<10	0.08	20	0.59	345	<1	0.02	20	700	12	<10	44	0.10	<10	<10	60	<10	80	--
C 87056	1	1.25	0.2	10	350	<0.5	<2	0.31	<0.5	9	26	14	2.27	<10	0.12	20	0.36	269	<1	0.01	19	520	10	<10	31	0.08	<10	<10	47	<10	70	--
C 87057	2	1.76	0.2	20	490	<0.5	<2	0.65	<0.5	10	35	22	2.26	<10	0.10	20	0.51	427	1	0.02	24	550	16	<10	37	0.16	<10	<10	62	<10	70	--
C 87058	2	1.71	0.2	10	480	<0.5	<2	0.62	<0.5	8	32	17	2.59	<10	0.15	30	0.49	307	<1	0.01	21	550	16	<10	38	0.09	<10	<10	59	<10	70	--
C 87059	<1	1.33	0.2	10	460	<0.5	<2	0.60	<0.5	7	26	17	2.14	<10	0.12	30	0.39	374	<1	0.01	18	530	20	<10	38	0.07	<10	<10	46	<10	60	--
C 87060	2	1.23	0.2	10	420	<0.5	<2	0.50	<0.5	6	23	11	1.96	<10	0.11	30	0.26	298	<1	0.01	15	400	20	<10	24	0.07	<10	<10	40	<10	60	--
C 87061	2	1.40	0.2	10	470	<0.5	<2	0.92	<0.5	6	27	15	2.04	<10	0.09	20	0.45	225	<1	0.01	16	650	16	<10	63	0.06	<10	<10	42	<10	60	--
C 87062	3	1.53	0.2	10	360	<0.5	<2	1.48	<0.5	6	20	12	2.32	<10	0.06	20	0.52	239	<1	0.01	14	520	10	<10	34	0.08	<10	<10	39	<10	60	--
C 87062	2	1.60	0.2	10	370	<0.5	<2	0.50	<0.5	7	31	19	2.37	<10	0.07	20	0.41	271	<1	0.01	20	500	12	<10	32	0.10	<10	<10	57	<10	60	--
C 87064	1	1.28	0.2	10	400	<0.5	<2	0.48	<0.5	8	29	16	2.15	<10	0.08	20	0.42	227	<1	0.01	19	660	8	<10	30	0.09	<10	<10	53	<10	70	--
C 87065	5	1.32	0.2	10	280	<0.5	<2	0.60	<0.5	10	30	17	2.59	<10	0.09	20	0.51	379	<1	0.02	24	880	10	<10	36	0.09	<10	<10	51	<10	80	--
C 87066	3	1.27	0.2	10	250	<0.5	<2	0.70	<0.5	10	27	17	2.03	<10	0.08	20	0.42	559	<1	0.01	19	720	10	<10	35	0.08	<10	<10	45	<10	70	--
C 87067	<1	1.26	0.2	10	270	<0.5	<2	0.36	<0.5	7	22	14	2.01	<10	0.06	20	0.31	391	<1	0.01	14	590	9	<10	25	0.07	<10	<10	42	<10	60	--
C 87068	2	1.57	0.2	10	360	<0.5	<2	0.25	<0.5	6	25	13	2.06	<10	0.07	20	0.37	141	<1	0.01	16	710	12	<10	39	0.07	<10	<10	40	<10	60	--
C 87069	2	1.29	0.2	10	240	<0.5	<2	0.29	<0.5	6	22	11	2.07	<10	0.06	20	0.35	160	<1	0.01	14	560	10	<10	22	0.08	<10	<10	39	<10	60	--
C 87070	2	1.17	0.2	10	200	<0.5	<2	0.28	<0.5	5	20	9	1.77	<10	0.08	20	0.31	146	<1	<0.01	12	530	10	<10	21	0.07	<10	<10	35	<10	60	--
C 87071	2	1.22	0.2	10	350	<0.5	<2	0.40	<0.5	9	22	19	2.02	<10	0.07	20	0.32	300	<1	0.01	16	750	12	<10	35	0.05	<10	<10	39	<10	60	--
C 87072	3	1.61	0.2	10	570	<0.5	<2	0.43	<0.5	8	23	20	2.17	<10	0.11	40	0.37	259	<1	0.01	17	610	14	<10	36	0.06	<10	<10	25	<10	60	--
C 87073	3	1.61	0.2	10	250	<0.5	<2	0.34	<0.5	5	25	12	2.00	<10	0.10	20	0.35	130	<1	0.01	14	500	16	<10	28	0.09	<10	<10	41	<10	60	--
C 87074	2	1.62	0.2	<10	430	<0.5	<2	0.21	<0.5	5	21	18	1.70	<10	0.08	20	0.20	92	<1	0.01	12	350	10	<10	27	0.07	<10	<10	34	<10	40	--
C 87075	14	1.22	0.2	<10	240	<0.5	<2	0.21	<0.5	5	18	9	1.66	<10	0.06	20	0.20	125	<1	0.01	11	550	4	<10	23	0.07	<10	<10	25	<10	40	--
C 87076	10	1.42	0.2	<10	270	<0.5	<2	0.33	<0.5	6	21	8	2.07	<10	0.05	20	0.26	188	<1	0.01	14	480	10	<10	24	0.08	<10	<10	46	<10	60	--
C 87077	2	0.95	0.2	<10	320	<0.5	<2	0.22	<0.5	3	41	7	1.22	<10	0.08	50	0.22	105	3	<0.01	27	180	14	<10	18	0.03	<10	<10	21	<10	30	--
C 87078	<1	0.42	0.2	<10	200	<0.5	<2	0.12	<0.5	1	11	1	0.95	<10	0.08	30	0.06	141	1	<0.01	10	140	10	<10	10	<0.01	<10	<10	5	<10	20	--
C 87079	<1	1.13	0.2	<10	90	<0.5	<2	0.13	<0.5	2	21	2	1.71	<10	0.04	20	0.29	122	<1	<0.01	12	190	14	<10	11	0.06	<10	<10	39	<10	30	--
C 87080	<2	0.47	0.2	10	340	<0.5	<2	0.56	<0.5	2	7	5	0.67	<10	0.02	50	0.29	75	<1	<0.01	6	940	18	<10	39	0.01	<10	<10	6	<10	20	--
C 87081	2	1.29	0.2	<10	280	<0.5	<2	0.47	<0.5	6	18	6	1.71	<10	0.02	40	0.25	191	<1	<0.01	10	520	10	<10	30	0.05	<10	<10	26	<10	40	--
C 87082	3	0.97	0.2	<10	130	<0.5	<2	0.30	<0.5	4	15	2	1.61	<10	0.04	20	0.29	192	<1	<0.01	8	370	6	<10	19	0.05	<10	<10	28	<10	40	--
C 87083	2	1.44	0.2	10	290	<0.5	<2	0.40	<0.5	6	34	7	2.19	<10	0.05	20	0.48	269	<1	<0.01	17	430	10	<10	26	0.07	<10	<10	42	<10	60	--
C 87084	<1	1.33	0.2	10	320	<0.5	<2	0.54	<0.5	6	25	6	1.88	<10	0.05	20	0.46	334	<1	<0.01	12	440	8	<10	36	0.07	<10	<10	38	<10	60	--
C 87085	<1	1.25	0.2	10	340	<0.5	<2	0.60	<0.5	7	23	8	1.97	<10	0.04	20	0.42	368	<1	<0.01	12	630	9	<10	43	0.05	<10	<10	40	<10	40	--

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## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614174-003-A  
INVOICE # : I8614174  
DATE : 13-JUL-86  
P.O. # : NONE  
P-52

### Bear Creek Soil

Semi quantitative multi element ICP analysis

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

COMMENTS :

Sample description	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn	
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb		
C 87086	5	2.30	0.2	10	650	<0.5	<2	0.97	<0.5	10	30	15	3.72	10	0.07	30	0.49	480	<1	0.01	18	670	14	<10	73	0.06	<10	<10	44	<10	70	--
C 87087	<1	1.44	0.2	<10	350	<0.5	<2	0.38	<0.5	5	21	8	3.02	<10	0.03	20	0.49	173	<1	<0.01	12	520	6	<10	35	0.08	<10	<10	37	<10	50	--
C 87088	<1	1.40	0.2	10	290	<0.5	<2	0.42	<0.5	5	20	9	1.98	<10	0.03	10	0.51	156	<1	<0.01	12	450	9	<10	29	0.07	<10	<10	35	<10	50	--
C 87089	4	1.49	0.2	10	380	<0.5	<2	0.41	<0.5	5	20	9	2.09	<10	0.05	20	0.52	210	<1	<0.01	12	570	10	<10	28	0.07	<10	<10	38	<10	60	--
C 87090	<1	1.48	0.2	<10	290	<0.5	<2	0.38	<0.5	5	24	9	2.02	<10	0.04	20	0.55	200	<1	<0.01	13	460	6	<10	26	0.07	<10	<10	38	<10	50	--
C 87091	2	1.61	0.2	10	320	<0.5	<2	0.39	<0.5	7	28	12	2.22	<10	0.05	20	0.55	241	<1	<0.01	16	510	6	<10	27	0.08	<10	<10	42	<10	66	--
C 87092	<1	1.58	0.2	10	290	<0.5	<2	0.43	<0.5	6	28	9	2.11	<10	0.05	20	0.61	261	<1	<0.01	13	490	6	<10	27	0.07	<10	<10	38	<10	50	--
C 87093	1	1.60	0.2	10	350	<0.5	<2	0.54	<0.5	8	32	14	2.23	<10	0.05	20	0.64	430	<1	<0.01	17	550	10	<10	33	0.07	<10	<10	40	<10	60	--
C 87094	17	1.24	0.2	<10	260	<0.5	<2	0.46	<0.5	5	23	7	1.86	<10	0.04	20	0.49	216	<1	<0.01	12	430	4	<10	29	0.06	<10	<10	38	<10	60	--
C 87095	3	1.49	0.2	10	300	<0.5	<2	0.57	<0.5	9	20	12	2.32	<10	0.03	20	0.65	363	<1	<0.01	15	610	9	<10	38	0.06	<10	<10	36	<10	60	--
C 87096	1	1.22	0.2	10	200	<0.5	<2	0.55	<0.5	9	24	10	2.01	<10	0.03	20	0.55	141	<1	<0.01	12	530	10	<10	37	0.05	<10	<10	37	<10	50	--
C 87097	<1	1.32	0.2	10	420	<0.5	<2	0.74	<0.5	7	27	10	1.69	<10	0.04	20	0.50	309	<1	<0.01	12	500	6	<10	53	0.05	<10	<10	27	<10	40	--
C 87098	<1	1.63	0.2	10	530	<0.5	<2	0.93	<0.5	8	22	13	2.14	<10	0.06	20	0.52	365	<1	<0.01	14	700	10	<10	61	0.05	<10	<10	31	<10	60	--
C 87100	2	1.52	0.2	10	380	<0.5	<2	0.50	<0.5	10	23	11	2.05	<10	0.04	20	0.52	368	<1	<0.01	12	480	6	<10	35	0.08	<10	<10	39	<10	50	--
C 87101	<1	1.35	0.2	<10	300	<0.5	<2	0.49	<0.5	4	23	8	1.61	<10	0.05	20	0.44	150	<1	<0.01	10	390	9	<10	35	0.08	<10	<10	26	<10	40	--
C 87102	<1	1.12	0.2	<10	320	<0.5	<2	0.42	<0.5	4	17	4	1.42	<10	0.04	10	0.39	184	<1	<0.01	9	440	4	<10	31	0.07	<10	<10	30	<10	40	--
C 87103	26	1.44	0.2	<10	370	<0.5	<2	0.62	<0.5	7	28	10	2.02	<10	0.05	20	0.48	354	<1	<0.01	13	580	10	<10	44	0.07	<10	<10	42	<10	50	--
C 87104	<1	1.31	0.2	10	320	<0.5	<2	0.53	<0.5	4	22	5	2.31	<10	0.04	10	0.45	159	<1	<0.01	9	440	4	<10	22	0.09	<10	<10	46	<10	30	--
C 87105	<1	0.98	0.2	<10	150	<0.5	<2	0.36	<0.5	4	16	7	1.51	<10	0.06	10	0.28	197	<1	<0.01	7	280	6	<10	22	0.08	<10	<10	32	<10	30	--
C 87106	6	1.43	0.2	<10	420	<0.5	<2	0.61	<0.5	9	23	7	1.60	<10	0.05	30	0.36	430	<1	<0.01	10	630	8	<10	39	0.05	<10	<10	24	<10	40	--
C 87107	9	1.57	0.2	<10	330	<0.5	<2	0.40	<0.5	7	23	12	1.66	<10	0.06	30	0.44	230	<1	<0.01	12	360	12	<10	26	0.07	<10	<10	32	<10	50	--
C 87108	2	1.25	0.2	<10	340	<0.5	<2	0.35	<0.5	5	17	6	1.62	<10	0.08	30	0.32	231	<1	<0.01	9	310	14	<10	26	0.07	<10	<10	29	<10	40	--
C 87109	<1	1.20	0.2	<10	330	<0.5	<2	0.32	<0.5	4	17	5	1.71	<10	0.08	30	0.28	187	<1	<0.01	9	300	14	<10	24	0.07	<10	<10	32	<10	40	--
C 87110	<1	1.41	0.2	<10	300	<0.5	<2	0.30	<0.5	4	18	9	1.73	10	0.12	60	0.22	157	<1	<0.01	8	330	22	<10	23	0.04	<10	<10	28	<10	40	--
C 87111	4	1.28	0.2	<10	230	<0.5	<2	0.32	<0.5	4	17	6	1.58	<10	0.07	40	0.26	128	<1	<0.01	8	260	14	<10	24	0.06	<10	<10	31	<10	40	--
C 87112	20	0.99	0.2	<10	260	<0.5	<2	0.12	<0.5	3	10	5	1.35	<10	0.12	50	0.19	103	<1	<0.01	6	220	22	<10	13	0.02	<10	<10	19	<10	30	--
C 87113	6	1.11	0.2	<10	250	<0.5	<2	0.16	<0.5	3	13	5	1.61	<10	0.09	30	0.24	113	<1	<0.01	7	200	16	<10	12	0.04	<10	<10	27	<10	30	--
C 87114	2	1.24	0.2	<10	240	<0.5	<2	0.14	<0.5	4	15	9	1.78	<10	0.07	30	0.26	148	<1	<0.01	9	200	16	<10	12	0.04	<10	<10	30	<10	30	--
C 87115	<1	0.90	0.2	<10	120	<0.5	<2	0.08	<0.5	2	6	2	1.22	<10	0.06	20	0.13	60	<1	<0.01	4	90	12	<10	7	0.03	<10	<10	19	<10	20	--
C 87116	4	1.13	0.2	<10	230	<0.5	<2	0.13	<0.5	2	10	6	1.37	<10	0.06	40	0.22	72	<1	<0.01	6	150	14	<10	10	0.02	<10	<10	21	<10	30	--
C 87117	<1	1.16	0.2	<10	240	<0.5	<2	0.19	<0.5	4	12	5	1.64	<10	0.05	30	0.29	166	<1	<0.01	8	230	14	<10	14	0.04	<10	<10	27	<10	40	--
C 87118	9	0.91	0.2	<10	140	<0.5	<2	0.22	<0.5	3	10	2	1.38	<10	0.04	10	0.29	127	<1	<0.01	7	230	8	<10	14	0.06	<10	<10	30	<10	30	--
C 87119	2	1.14	0.2	<10	150	<0.5	<2	0.22	<0.5	4	17	5	1.77	<10	0.04	20	0.34	156	<1	<0.01	9	330	10	<10	14	0.05	<10	<10	31	<10	40	--
C 87120	10	1.24	0.2	<10	190	<0.5	<2	0.27	<0.5	4	18	5	1.72	<10	0.02	10	0.29	139	<1	<0.01	10	390	8	<10	17	0.07	<10	<10	33	<10	40	--
C 87121	14	1.27	0.2	<10	220	<0.5	<2	0.20	<0.5	4	19	6	1.67	<10	0.04	20	0.42	132	<1	<0.01	10	360	9	<10	20	0.07	<10	<10	33	<10	50	--
C 87122	2	1.40	0.2	10	190	<0.5	<2	0.32	<0.5	5	22	6	1.88	<10	0.06	20	0.45	146	<1	<0.01	12	450	8	<10	22	0.09	<10	<10	39	<10	50	--
C 87123	2	1.32	0.2	<10	250	<0.5	<2	0.31	<0.5	5	21	7	1.76	<10	0.04	20	0.43	146	<1	<0.01	12	370	8	<10	22	0.08	<10	<10	36	<10	40	--
C 87124	4	1.28	0.2	<10	240	<0.5	<2	0.31	<0.5	5	18	10	1.81	<10	0.04	20	0.42	166	<1	<0.01	12	440	6	<10	21	0.07	<10	<10	34	<10	40	--
C 87125	66	1.30	0.2	10	250	<0.5	<2	0.41	<0.5	5	23	10	1.85	<10	0.06	20	0.40	146	<1	<0.01	13	500	12	<10	25	0.07	<10	<10	36	<10	50	--
C 87126	2	1.30	0.2	10	220	<0.5	<2	0.35	<0.5	4	21	7	1.72	<10	0.05	20	0.38	133	<1	<0.01	11	480	10	<10	22	0.07	<10	<10	38	<10	50	--

Certified by *Stuart R. B. ...*



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Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 0N2

CERT. # : A8614174-004-A  
INVOICE # : I8614174  
DATE : 13-JUL-96  
P.O. # : NONE  
P-53

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

COMMENTS :

Bear Creek Soil

Sample description	Au	Ag	Al	As	Ba	Be	Bi	Ca	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn	
	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
C 87127	8	1.31	0.2	10	310	<0.5	<0.26	<0.5	5	20	9	1.83	<10	0.05	20	0.27	227	<1	<0.01	11	420	12	<10	24	0.06	<10	<10	35	<10	50	--
C 87128	2	1.34	0.2	10	260	<0.5	<0.26	<0.5	5	24	9	1.86	<10	0.05	20	0.39	193	<1	<0.01	12	430	12	<10	24	0.08	<10	<10	38	<10	50	--
C 87129	5	1.87	0.2	10	480	<0.5	<0.54	<0.5	9	51	12	2.42	<10	0.08	20	0.54	302	5	0.01	27	460	14	<10	25	0.06	<10	<10	50	<10	70	--
C 87130	<1	1.75	0.2	<10	300	<0.5	<0.41	<0.5	5	28	10	2.04	<10	0.09	20	0.50	186	<1	<0.01	14	410	14	<10	29	0.07	<10	<10	46	<10	60	--
C 87131	1	1.58	0.2	10	260	<0.5	<0.41	<0.5	5	14	9	1.76	<10	0.08	20	0.47	171	3	0.01	26	370	12	<10	27	0.08	<10	<10	43	<10	60	--
C 87132	1	1.44	0.2	10	230	<0.5	<0.25	<0.5	5	24	8	1.76	<10	0.05	20	0.44	153	<1	<0.01	13	500	14	<10	24	0.08	<10	<10	38	<10	50	--
C 87133	<1	1.58	0.2	10	220	<0.5	<0.23	<0.5	5	30	10	2.01	<10	0.05	20	0.47	151	1	<0.01	16	420	12	<10	22	0.09	<10	<10	42	<10	50	--
C 87134	<1	2.04	0.2	10	340	<0.5	<0.25	<0.5	9	54	18	2.58	<10	0.09	20	0.48	324	4	0.01	34	460	18	<10	24	0.07	<10	<10	48	<10	70	--
C 87135	1	1.61	0.2	<10	270	<0.5	<0.25	<0.5	4	24	9	1.88	<10	0.06	20	0.47	152	<1	0.01	14	360	10	<10	26	0.09	<10	<10	41	<10	50	--
C 87136	<1	1.25	0.2	<10	240	<0.5	<0.25	<0.5	5	26	9	1.81	<10	0.04	20	0.47	193	<1	0.01	12	430	14	<10	24	0.09	<10	<10	39	<10	50	--
C 87137	40	1.36	0.2	10	200	<0.5	<0.26	<0.5	5	24	9	1.83	<10	0.05	20	0.45	179	<1	<0.01	12	500	14	<10	24	0.09	<10	<10	40	<10	50	--
C 87138	<1	1.83	0.2	10	250	<0.5	<0.46	<0.5	5	28	9	2.21	<10	0.08	20	0.54	202	<1	0.01	15	460	12	<10	34	0.09	<10	<10	49	<10	60	--
C 87139	1	1.76	0.2	10	370	<0.5	<0.42	<0.5	10	27	13	2.23	<10	0.08	30	0.46	583	1	0.01	16	480	16	<10	31	0.07	<10	<10	45	<10	60	--
C 87140	<1	1.93	0.2	10	370	<0.5	<0.38	<0.5	7	34	11	2.50	<10	0.09	30	0.55	342	1	0.01	19	520	16	<10	28	0.06	<10	<10	46	<10	70	--
C 87141	<1	0.63	0.2	<10	180	<0.5	<0.07	<0.5	<1	4	4	0.87	<10	0.17	50	0.08	56	<1	<0.01	2	180	20	<10	9	<0.01	<10	<10	7	<10	20	--
C 87142	<1	1.56	0.2	10	330	<0.5	<0.14	<0.5	6	28	12	2.24	<10	0.09	30	0.25	182	<1	<0.01	17	100	18	<10	12	0.06	<10	<10	40	<10	40	--
C 87143	5	1.26	0.2	10	540	<0.5	<0.25	<0.5	4	21	9	2.13	<10	0.16	30	0.32	245	<1	<0.01	12	280	19	<10	22	0.07	<10	<10	43	<10	40	--
C 87144	21	1.21	0.2	10	590	<0.5	<0.44	<0.5	5	24	12	2.10	<10	0.12	40	0.24	152	<1	0.01	16	210	22	<10	41	0.06	<10	<10	41	<10	40	--
C 87145	1	0.84	0.2	10	290	<0.5	<0.37	<0.5	5	14	8	1.45	<10	0.11	40	0.30	246	<1	<0.01	8	420	20	<10	31	0.04	<10	<10	22	<10	40	--
C 87148	1	1.43	0.2	<10	400	<0.5	<0.52	<0.5	7	24	12	2.15	<10	0.05	20	0.41	255	<1	0.01	17	640	8	<10	38	0.08	<10	<10	53	<10	60	--
C 87149	3	1.29	0.2	10	450	<0.5	<0.57	<0.5	9	30	19	2.40	<10	0.06	20	0.44	476	<1	0.01	24	700	12	<10	20	0.08	<10	<10	49	<10	50	--
C 87150	4	1.38	0.2	10	330	<0.5	<0.52	<0.5	9	22	22	2.48	<10	0.10	20	0.48	347	<1	0.02	24	800	14	<10	30	0.09	<10	<10	49	<10	60	--
C 87151	1	1.29	0.2	10	250	<0.5	<0.42	<0.5	6	29	6	2.29	<10	0.07	20	0.40	193	<1	0.01	15	520	9	<10	24	0.09	<10	<10	52	<10	50	--
C 87152	2	1.42	0.2	<10	320	<0.5	<0.51	<0.5	9	30	12	2.18	<10	0.08	20	0.47	402	<1	0.01	19	650	10	<10	26	0.10	<10	<10	51	<10	70	--
C 87153	2	1.73	0.2	10	330	<0.5	<0.56	<0.5	10	37	15	2.70	<10	0.08	20	0.56	280	1	0.02	23	500	12	<10	32	0.11	<10	<10	62	<10	70	--
C 87154	26	1.28	0.2	10	290	<0.5	<0.45	<0.5	10	31	18	2.55	<10	0.08	20	0.49	288	<1	0.02	23	680	10	<10	26	0.08	<10	<10	48	<10	60	--
C 87155	5	1.27	0.2	10	320	<0.5	<0.48	<0.5	8	31	15	2.23	<10	0.06	20	0.43	255	<1	0.01	20	570	10	<10	26	0.09	<10	<10	49	<10	50	--
C 87156	3	1.32	0.2	10	320	<0.5	<0.52	<0.5	10	39	12	2.87	<10	0.09	30	0.52	293	1	0.02	24	480	12	<10	32	0.10	<10	<10	62	<10	60	--
C 87157	14	1.43	0.2	10	370	<0.5	<0.64	<0.5	9	22	14	2.50	<10	0.12	20	0.49	302	<1	0.02	22	720	10	<10	33	0.09	<10	<10	53	<10	70	--
C 87158	7	1.30	0.2	<10	300	<0.5	<0.51	<0.5	9	28	16	2.22	<10	0.09	30	0.42	350	<1	0.01	19	710	14	<10	29	0.09	<10	<10	50	<10	60	--
C 87159	1	1.53	0.2	<10	420	<0.5	<0.51	<0.5	9	31	16	2.38	<10	0.07	20	0.43	331	<1	0.01	20	620	10	<10	32	0.09	<10	<10	53	<10	60	--
C 87160	2	1.61	0.2	<10	450	<0.5	<0.52	<0.5	8	29	14	2.03	<10	0.11	20	0.38	357	<1	0.01	16	460	12	<10	41	0.08	<10	<10	45	<10	50	--
C 87161	<1	1.74	0.2	<10	430	<0.5	<0.48	<0.5	8	28	10	2.14	<10	0.16	20	0.37	388	<1	0.01	14	400	12	<10	38	0.08	<10	<10	46	<10	50	--
C 87162	38	1.47	0.2	10	430	<0.5	<0.47	<0.5	9	30	19	2.29	<10	0.11	20	0.41	264	<1	0.01	19	570	16	<10	23	0.09	<10	<10	48	<10	50	--
C 87163	51	1.21	0.2	<10	270	<0.5	<0.38	<0.5	5	22	8	1.52	<10	0.10	20	0.32	127	<1	0.01	11	470	12	<10	26	0.09	<10	<10	35	<10	40	--
C 87164	2	1.52	0.2	<10	330	<0.5	<0.26	<0.5	6	26	10	1.92	<10	0.08	30	0.34	142	<1	<0.01	12	320	22	<10	20	0.08	<10	<10	36	<10	40	--
C 87165	2	1.45	0.2	<10	310	<0.5	<0.28	<0.5	6	27	11	2.01	<10	0.08	20	0.36	143	<1	0.01	14	420	10	<10	21	0.08	<10	<10	39	<10	40	--
C 87166	3	1.53	0.2	<10	240	<0.5	<0.30	<0.5	6	29	11	2.05	<10	0.08	20	0.39	153	<1	0.01	15	380	12	<10	23	0.09	<10	<10	42	<10	50	--
C 87167	2	1.59	0.2	<10	250	<0.5	<0.29	<0.5	6	27	9	2.01	<10	0.08	20	0.37	132	<1	0.01	13	330	10	<10	24	0.09	<10	<10	42	<10	50	--
C 87168	3	1.50	0.2	<10	300	<0.5	<0.38	<0.5	7	31	14	2.32	<10	0.07	20	0.44	206	<1	0.01	18	580	10	<10	26	0.09	<10	<10	48	<10	50	--

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Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614174-005-A  
INVOICE # : I8614174  
DATE : 13-JUL-86  
P.O. # : NONE  
P-53

### Bear Creek Soil

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

COMMENTS :

Sample description	Au NAA ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
C 87169	5	1.55	0.2	10	380	<0.5	<2	0.49	<0.5	9	32	17	1.62	<10	0.10	30	0.47	364	<1	0.02	22	680	12	<10	32	0.10	<10	<10	57	<10	70	--
C 87170	2	1.41	0.2	10	370	<0.5	<2	0.57	<0.5	9	33	23	1.56	<10	0.11	30	0.49	384	<1	0.02	27	810	12	<10	33	0.09	<10	<10	51	<10	70	--
C 87171	1	1.81	0.2	10	420	<0.5	<2	0.65	<0.5	11	37	21	1.76	<10	0.14	20	0.48	410	<1	0.02	25	470	19	<10	27	0.11	<10	<10	64	<10	70	--
C 87172	20	1.77	0.2	10	340	<0.5	<2	0.46	<0.5	11	39	27	1.94	<10	0.11	20	0.57	304	<1	0.02	28	520	14	<10	31	0.11	<10	<10	65	<10	70	--
C 87173	<1	1.56	0.2	10	350	<0.5	<2	0.41	<0.5	9	31	15	1.51	<10	0.06	20	0.42	270	1	0.01	20	460	10	<10	26	0.09	<10	<10	54	<10	50	--
C 87174	6	1.18	0.2	10	340	<0.5	<2	0.48	<0.5	8	25	19	1.16	<10	0.07	20	0.39	311	<1	0.01	19	670	10	<10	28	0.08	<10	<10	44	<10	70	--
C 87175	2	1.23	0.2	10	300	<0.5	<2	0.52	<0.5	8	28	14	1.33	<10	0.07	20	0.45	282	<1	0.02	20	790	10	<10	30	0.09	<10	<10	47	<10	70	--
C 87176	<1	1.35	0.2	10	310	<0.5	<2	0.56	<0.5	10	29	12	1.49	<10	0.09	20	0.49	368	<1	0.02	21	680	10	<10	33	0.09	<10	<10	51	<10	70	--
C 87177	2	1.24	0.2	10	360	<0.5	<2	0.77	<0.5	8	28	16	1.30	<10	0.08	20	0.45	318	<1	0.02	20	810	19	<10	39	0.09	<10	<10	46	<10	60	--
C 87178	<1	1.22	0.2	10	340	<0.5	<2	0.61	<0.5	7	28	12	1.15	<10	0.10	20	0.45	230	<1	0.02	18	700	9	<10	22	0.09	<10	<10	49	<10	70	--
C 87179	2	1.25	0.2	10	350	<0.5	<2	0.72	<0.5	9	28	16	1.22	<10	0.10	20	0.46	240	<1	0.02	20	700	5	<10	29	0.09	<10	<10	48	<10	70	--
C 87180	2	1.19	0.2	10	360	<0.5	<2	0.88	<0.5	9	27	18	1.21	<10	0.08	20	0.46	466	<1	0.02	21	800	10	<10	45	0.08	<10	<10	44	<10	70	--
C 87195	8	0.99	0.2	10	170	<0.5	<2	0.11	<0.5	3	86	6	1.64	<10	0.23	30	0.15	171	<1	0.01	7	350	18	<10	10	0.63	<10	<10	21	<10	40	--
C 87196	3	1.20	0.2	10	310	<0.5	<2	0.31	<0.5	6	62	8	1.57	<10	0.10	20	0.25	203	<1	0.01	11	600	10	<10	24	0.05	<10	<10	27	<10	50	--
C 87197	3	0.47	0.2	<10	570	<0.5	<2	0.86	<0.5	2	291	9	0.71	<10	0.10	30	0.12	110	1	0.02	9	550	6	<10	54	0.01	<10	<10	9	<10	20	--
C 87198	4	1.02	0.2	20	340	<0.5	<2	0.44	<0.5	6	17	10	1.62	<10	0.11	30	0.37	325	<1	0.01	12	560	19	<10	49	0.05	<10	<10	25	<10	60	--
C 87199	25	1.26	0.2	10	220	<0.5	<2	0.15	<0.5	3	17	6	1.85	<10	0.12	20	0.25	102	<1	0.01	10	160	24	<10	14	0.25	<10	<10	22	<10	20	--
C 87200	1	1.01	0.2	<10	260	<0.5	<2	0.13	<0.5	2	12	6	1.32	<10	0.15	30	0.16	95	<1	0.01	6	150	20	<10	14	0.03	<10	<10	24	<10	20	--
C 87201	<1	1.23	0.2	10	390	<0.5	<2	0.21	<0.5	4	20	6	1.95	10	0.15	30	0.28	195	<1	0.01	12	400	20	<10	19	0.06	<10	<10	36	<10	40	--
C 87202	5	1.28	0.2	10	210	<0.5	<2	0.20	<0.5	5	18	9	1.84	<10	0.09	20	0.24	306	<1	0.01	9	290	26	<10	16	0.07	<10	<10	40	<10	40	--
C 87203	<1	1.51	0.2	10	320	<0.5	<2	0.23	<0.5	4	22	7	1.97	<10	0.11	20	0.23	144	<1	0.01	10	240	12	<10	20	0.08	<10	<10	47	<10	40	--
C 87204	<1	1.29	0.2	10	370	<0.5	<2	0.15	<0.5	9	112	6	1.91	<10	0.21	10	0.27	484	1	0.01	9	310	14	<10	16	0.05	<10	<10	41	<10	40	--
C 87205	1	1.66	0.2	10	300	<0.5	<2	0.29	<0.5	5	24	12	1.11	<10	0.10	20	0.42	120	<1	0.01	14	320	14	<10	24	0.28	<10	<10	47	<10	50	--
C 87206	1	1.26	0.2	10	510	<0.5	<2	0.42	<0.5	8	73	20	1.70	10	0.20	20	0.49	187	<1	0.03	18	250	20	<10	41	0.09	<10	<10	62	<10	70	--
C 87207	<3	0.29	0.2	<10	510	<0.5	<2	0.91	<0.5	3	14	12	0.35	<10	0.05	30	0.10	221	<1	0.04	8	850	6	<10	80	<0.01	<10	<10	4	<10	30	--
C 87208	<2	0.29	0.2	10	420	<0.5	<2	1.73	1.0	4	17	8	0.45	<10	0.07	20	0.20	66	1	0.02	6	1190	6	<10	116	<0.01	<10	<10	4	<10	30	--
C 87209	<2	1.24	0.2	10	220	<0.5	<2	0.20	<0.5	6	21	12	1.96	<10	0.02	20	0.45	162	<1	0.02	14	540	12	<10	22	0.07	<10	<10	36	<10	50	--
C 87210	2	1.68	0.2	<10	250	<0.5	<2	0.20	<0.5	6	26	12	1.12	<10	0.07	20	0.49	126	<1	0.01	16	420	9	<10	22	0.09	<10	<10	43	<10	50	--
C 87211	<2	0.92	0.2	<10	740	<0.5	<2	1.22	0.5	3	25	24	1.18	<10	0.09	20	0.32	368	1	0.05	17	1020	94	<10	185	0.01	<10	<10	17	<10	50	--
C 87212	<1	1.54	0.2	<10	280	<0.5	<2	0.30	<0.5	5	21	12	1.38	<10	0.07	30	0.58	152	<1	0.01	12	360	8	<10	27	0.09	<10	<10	36	<10	50	--
C 87213	<1	1.73	0.2	<10	360	<0.5	<2	0.26	<0.5	6	28	15	1.19	<10	0.09	30	0.50	215	<1	0.01	16	420	8	<10	30	0.09	<10	<10	44	<10	50	--
C 87214	4	1.93	0.2	<10	330	<0.5	<2	0.37	<0.5	6	30	13	1.43	10	0.10	30	0.54	184	<1	0.01	17	510	8	<10	31	0.10	<10	<10	50	<10	60	--
C 87215	54	1.97	0.2	<10	590	<0.5	<2	0.39	<0.5	7	100	13	2.07	<10	0.16	40	0.52	169	<1	0.04	15	400	6	<10	41	0.09	<10	<10	46	<10	50	--
C 87216	<1	1.22	0.2	<10	350	<0.5	<2	0.40	<0.5	4	19	5	1.64	<10	0.05	20	0.45	119	<1	0.01	10	300	9	<10	36	0.07	<10	<10	25	<10	40	--
C 87217	1	1.27	0.2	10	350	<0.5	<2	0.54	<0.5	9	24	13	1.20	<10	0.12	30	0.47	516	1	0.01	18	330	10	<10	48	0.08	<10	<10	43	<10	30	--
C 87220	1	1.44	0.2	10	480	<0.5	<2	0.54	<0.5	5	107	6	1.50	10	0.20	30	0.59	277	<1	0.01	8	500	26	<10	57	0.02	<10	<10	21	<10	50	--
C 87221	3	1.81	0.2	20	720	<0.5	<2	0.42	<0.5	4	374	4	1.87	<10	0.57	30	0.79	178	<1	0.04	10	380	18	<10	116	<0.01	<10	<10	5	<10	50	--
C 87222	5	1.22	0.2	<10	250	<0.5	<2	0.32	<0.5	5	23	8	1.80	<10	0.11	20	0.33	156	<1	0.01	11	490	8	<10	25	0.08	<10	<10	38	<10	40	--
C 87223	1	1.31	0.2	10	230	<0.5	<2	0.28	<0.5	4	20	6	1.74	<10	0.13	20	0.20	121	<1	0.01	10	260	12	<10	24	0.07	<10	<10	27	<10	40	--
C 87224	3	1.22	0.2	10	300	<0.5	<2	0.30	<0.5	5	20	7	1.71	<10	0.10	30	0.37	143	<1	0.01	10	450	16	<10	25	0.06	<10	<10	33	<10	40	--

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## CERTIFICATE OF ANALYSIS

TO : UNITED KEND HILL MINES LIMITED

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CERT. # : A9614174-006-A  
INVOICE # : I8614174  
DATE : 13-JUL-86  
P.O. # : NONE  
P-53

### Bear Creek Soil

Semi quantitative multi element ICP analysis

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

COMMENTS :

Sample description	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Nb	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn	
	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
C 87225	3	1.35	0.2	10	240	<0.5	<2	0.36	<0.5	6	25	9	1.96	<10	0.09	20	0.25	187	<1	0.01	13	550	9	<10	25	0.08	<10	<10	40	<10	50	--
C 87236	2	0.66	0.2	10	440	<0.5	<2	0.71	<0.5	7	50	13	1.27	<10	0.09	10	0.18	327	<1	0.04	10	1030	4	<10	55	0.02	<10	<10	14	<10	30	--
C 87237	<2	0.18	0.2	10	280	<0.5	<2	0.95	<0.5	4	5	14	0.28	<10	0.06	<10	0.12	460	1	0.04	6	1110	2	<10	50	0.01	<10	<10	2	<10	20	--
C 87238	10	1.02	0.2	<10	340	<0.5	<2	0.25	<0.5	4	18	6	1.57	<10	0.04	20	0.22	154	<1	0.01	10	530	2	<10	23	0.07	<10	<10	34	<10	40	--
C 87239	1	1.57	0.2	<10	550	<0.5	<2	0.27	<0.5	10	22	9	1.34	<10	0.11	20	0.42	308	<1	0.01	12	550	5	<10	29	0.05	<10	<10	22	<10	40	--
C 87230	4	1.45	0.2	<10	320	<0.5	<2	0.25	<0.5	6	21	7	1.86	<10	0.10	20	0.22	206	<1	0.01	11	460	8	<10	30	0.07	<10	<10	27	<10	40	--
C 87231	2	1.51	0.2	<10	280	<0.5	<2	0.37	<0.5	4	18	11	1.74	<10	0.15	40	0.25	128	<1	0.01	9	460	16	<10	35	0.05	<10	<10	29	<10	40	--
C 87232	2	2.19	0.2	10	420	<0.5	<2	0.50	<0.5	12	25	9	2.24	10	0.16	50	0.38	526	<1	0.01	13	770	18	<10	40	0.06	<10	<10	37	<10	50	--
C 87233	<2	0.37	0.2	10	560	<0.5	<2	1.03	<0.5	14	13	15	1.03	<10	0.11	10	0.12	1009	1	0.06	10	1560	6	<10	76	0.01	<10	<10	5	<10	40	--
C 87234	2	1.61	0.2	<10	430	<0.5	<2	0.27	<0.5	9	27	24	0.47	<10	0.11	20	0.42	394	<1	0.01	19	560	9	<10	29	0.09	<10	<10	46	<10	60	--
C 87235	2	1.14	0.2	10	290	<0.5	<2	0.44	<0.5	9	102	12	0.27	<10	0.16	20	0.46	226	<1	0.02	19	760	2	<10	22	0.10	<10	<10	53	<10	50	--
C 87236	2	1.44	0.2	10	500	<0.5	<2	0.48	<0.5	24	22	11	0.56	<10	0.14	40	0.26	2225	1	0.01	14	910	12	<10	47	0.05	<10	<10	38	<10	50	--
C 87237	<1	0.82	0.2	20	300	<0.5	<2	0.26	<0.5	2	6	4	0.86	<10	0.27	40	0.15	65	<1	0.01	3	260	18	<10	34	0.01	<10	<10	3	<10	20	--
C 87238	4	0.45	0.2	10	610	<0.5	<2	1.62	1.0	8	29	20	0.69	<10	0.07	40	0.26	690	1	0.05	14	1050	6	<10	152	0.01	<10	<10	10	<10	40	--
C 87239	3	1.78	0.2	<10	400	<0.5	<2	0.28	<0.5	10	28	12	0.26	<10	0.08	20	0.42	215	<1	0.01	16	520	10	<10	25	0.09	<10	<10	50	<10	50	--
C 87240	3	0.78	0.2	10	790	<0.5	<2	1.25	1.0	10	20	25	1.28	<10	0.08	40	0.25	384	<1	0.07	12	950	144	<10	142	0.02	<10	<10	14	<10	40	--
C 87241	24	1.60	0.2	10	320	<0.5	<2	0.25	<0.5	5	28	18	0.16	<10	0.08	10	0.24	205	<1	0.01	15	500	2	<10	30	0.10	<10	<10	26	<10	50	--
C 87242	15	1.58	0.2	<10	350	<0.5	<2	0.27	<0.5	6	28	15	0.21	<10	0.07	30	0.45	204	<1	0.01	16	440	12	<10	27	0.09	<10	<10	45	<10	50	--
C 87243	4	1.43	0.2	<10	320	<0.5	<2	0.33	<0.5	5	25	14	2.00	<10	0.06	30	0.49	189	<1	0.01	15	350	14	<10	24	0.08	<10	<10	39	<10	50	--
C 87244	2	1.62	0.2	<10	380	<0.5	<2	0.38	<0.5	5	28	9	2.09	<10	0.07	30	0.53	171	<1	0.01	14	380	12	<10	28	0.10	<10	<10	43	<10	50	--
C 87245	3	1.90	0.2	<10	560	<0.5	<2	0.56	<0.5	7	24	19	2.48	10	0.10	20	0.52	267	<1	0.01	19	440	16	<10	44	0.10	<10	<10	50	<10	60	--
C 87246	3	1.85	0.2	10	340	<0.5	<2	0.38	<0.5	6	29	12	0.28	10	0.09	30	0.62	129	<1	0.01	15	410	18	<10	29	0.09	<10	<10	45	<10	60	--
C 87247	<1	1.74	0.2	<10	240	<0.5	<2	0.24	<0.5	5	28	5	0.11	<10	0.08	20	0.21	148	<1	0.01	12	320	12	<10	26	0.11	<10	<10	50	<10	50	--
C 87248	8	1.74	0.2	<10	320	<0.5	<2	0.22	<0.5	6	34	7	0.23	10	0.09	80	0.42	144	<1	0.01	14	290	14	<10	26	0.10	<10	<10	54	<10	40	--
C 87249	<1	1.48	0.2	<10	220	<0.5	<2	0.34	<0.5	5	27	9	2.02	<10	0.09	30	0.43	140	<1	0.01	14	400	12	<10	25	0.10	<10	<10	44	<10	40	--
C 87250	<1	1.47	0.2	<10	240	<0.5	<2	0.25	<0.5	5	26	7	1.96	<10	0.09	20	0.37	127	<1	0.01	12	230	12	<10	20	0.08	<10	<10	42	<10	40	--
C 87251	2	1.19	0.2	<10	310	<0.5	<2	0.16	<0.5	2	17	3	1.24	<10	0.10	10	0.20	94	<1	0.01	6	120	14	<10	14	0.07	<10	<10	35	<10	20	--
C 87252	<1	0.26	0.2	<10	470	<0.5	<2	0.22	<0.5	9	28	12	0.27	<10	0.08	20	0.66	192	<1	0.01	22	220	14	<10	21	0.02	<10	<10	48	<10	40	--
C 87253	<1	1.04	0.2	<10	290	<0.5	<2	0.15	<0.5	2	14	2	1.22	<10	0.11	20	0.20	96	<1	0.01	6	190	19	<10	14	0.06	<10	<10	29	<10	20	--
C 87254	3	1.54	0.2	<10	300	<0.5	<2	0.14	<0.5	5	17	1	1.79	<10	0.12	10	0.27	220	<1	0.01	9	130	16	<10	12	0.05	<10	<10	34	<10	30	--
C 87255	1	1.53	0.2	<10	420	<0.5	<2	0.17	<0.5	5	23	4	2.41	<10	0.09	30	0.22	151	<1	0.01	13	150	18	<10	16	0.07	<10	<10	47	<10	40	--
C 87256	21	1.11	0.2	<10	350	<0.5	<2	0.22	<0.5	3	21	2	1.73	<10	0.10	20	0.26	129	<1	0.01	9	80	20	<10	17	0.07	<10	<10	41	<10	20	--
C 87257	6	0.82	0.2	20	320	<0.5	<2	0.51	<0.5	5	14	5	1.32	<10	0.13	20	0.31	235	<1	0.01	8	510	18	<10	56	0.04	<10	<10	19	<10	50	--
C 87260	3	1.16	0.2	<10	310	<0.5	<2	0.62	0.5	9	25	10	0.11	<10	0.09	20	0.41	325	<1	0.01	17	540	10	<10	34	0.02	<10	<10	43	<10	50	--
C 87261	4	1.22	0.2	<10	270	<0.5	<2	0.50	<0.5	9	26	14	2.15	<10	0.07	20	0.44	228	<1	0.01	19	550	12	<10	32	0.08	<10	<10	44	<10	50	--
C 87262	3	1.29	0.2	<10	320	<0.5	<2	0.55	<0.5	9	20	15	2.25	<10	0.09	20	0.46	402	<1	0.02	20	670	10	<10	34	0.09	<10	<10	49	<10	50	--
C 87263	3	1.22	0.2	<10	310	<0.5	<2	0.65	<0.5	6	25	9	2.03	<10	0.08	20	0.43	221	<1	0.01	15	540	14	<10	35	0.08	<10	<10	46	<10	50	--
C 87264	1	1.21	0.2	<10	370	<0.5	<2	0.76	<0.5	7	24	11	2.09	<10	0.06	20	0.44	328	<1	0.01	18	740	10	<10	38	0.08	<10	<10	44	<10	70	--
C 87265	18	1.27	0.2	10	320	<0.5	<2	0.63	<0.5	7	28	9	2.09	<10	0.08	20	0.42	232	<1	0.02	17	750	9	<10	35	0.09	<10	<10	48	<10	60	--
C 87266	4	1.17	0.2	10	250	<0.5	<2	0.63	<0.5	6	29	9	2.00	<10	0.08	20	0.41	168	<1	0.01	16	740	9	<10	32	0.10	<10	<10	49	<10	50	--

Certified by

*Stan Buchler*



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## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614175-001-A  
INVOICE # : I8614175  
DATE : 15-JUL-86  
P.O. # : NONE  
P-53

Semi quantitative multi element ICP analysis

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

COMMENTS :

### Bear Creek Soil

Sample description	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn	
	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
C 87267	1	1.19	0.4	10	330	<0.5	<2	0.45	<0.5	9	24	16	2.43	<10	0.03	10	0.45	345	<1	0.01	20	610	10	<10	24	0.05	<10	<10	44	<10	50	--
C 87268	1	1.04	0.2	10	270	<0.5	<2	0.47	<0.5	7	21	13	2.16	<10	0.04	10	0.40	221	1	0.01	15	590	18	<10	26	0.05	<10	<10	40	<10	50	--
C 87269	3	1.08	0.4	10	310	<0.5	<2	0.46	<0.5	10	22	19	2.22	<10	0.03	10	0.41	433	<1	0.01	19	640	10	<10	25	0.05	<10	<10	42	<10	60	--
C 87270	1	0.82	0.2	10	220	<0.5	<2	0.46	<0.5	6	21	12	1.67	<10	0.07	10	0.35	275	<1	0.01	14	530	10	<10	23	0.04	<10	33	<10	50	--	
C 87271	1	1.11	0.2	10	320	<0.5	<2	0.63	<0.5	8	25	14	2.23	<10	0.07	20	0.44	304	<1	0.01	18	580	8	<10	32	0.06	<10	<10	45	<10	50	--
C 87272	3	1.26	0.6	10	340	<0.5	<2	0.77	<0.5	9	28	19	2.39	<10	0.08	20	0.49	542	<1	0.01	22	700	10	<10	37	0.06	<10	<10	45	<10	70	--
C 87273	4	1.32	0.4	10	390	<0.5	<2	0.83	<0.5	9	31	22	2.47	<10	0.09	20	0.53	432	<1	0.02	25	750	12	<10	41	0.06	<10	<10	46	<10	70	--
C 87274	<1	0.89	0.4	20	350	<0.5	<2	0.53	<0.5	7	18	13	1.72	<10	0.11	30	0.36	744	<1	0.01	14	540	20	<10	45	0.03	<10	<10	26	<10	50	--
C 87275	2	1.29	0.2	<10	240	<0.5	<2	0.31	<0.5	5	22	9	1.93	<10	0.07	20	0.37	166	<1	<0.01	12	450	10	<10	22	0.06	<10	<10	40	<10	40	--
C 87276	10	1.33	0.8	<10	280	<0.5	<2	0.29	<0.5	5	23	9	2.10	<10	0.06	20	0.40	163	<1	<0.01	12	330	10	<10	22	0.06	<10	<10	44	<10	40	--
C 87277	3	1.32	0.2	<10	320	<0.5	<2	0.31	<0.5	5	23	13	2.11	<10	0.03	20	0.40	164	<1	0.01	14	360	10	<10	23	0.05	<10	<10	39	<10	40	--
C 87278	7	1.37	0.2	<10	400	<0.5	<2	0.34	<0.5	6	24	13	2.10	<10	0.05	20	0.42	175	<1	0.01	14	310	10	<10	25	0.06	<10	<10	39	<10	50	--
C 87279	3	1.45	0.2	<10	450	<0.5	<2	0.32	<0.5	5	26	15	2.21	<10	0.07	30	0.39	166	<1	<0.01	14	370	14	<10	25	0.05	<10	<10	38	<10	40	--
C 87280	2	1.34	0.2	<10	340	<0.5	<2	0.23	<0.5	4	24	12	1.91	<10	0.09	30	0.35	121	<1	<0.01	12	240	16	<10	19	0.05	<10	<10	34	<10	40	--
C 87281	8	1.16	0.4	<10	330	<0.5	<2	0.20	<0.5	4	21	8	1.70	<10	0.06	20	0.30	122	<1	<0.01	10	170	12	<10	16	0.05	<10	<10	32	<10	30	--
C 87282	4	1.47	0.2	<10	530	<0.5	<2	0.39	<0.5	5	26	14	2.01	<10	0.12	30	0.39	210	<1	0.01	14	330	12	<10	31	0.05	<10	<10	35	<10	40	--
C 87283	2	1.77	0.4	<10	1070	<0.5	<2	0.46	<0.5	6	20	13	1.92	10	0.13	50	0.32	715	<1	<0.01	12	410	22	<10	39	0.01	<10	<10	26	<10	40	--
C 87284	1	1.20	0.2	<10	280	<0.5	<2	0.15	<0.5	3	9	6	1.62	<10	0.07	20	0.37	91	<1	<0.01	4	400	16	<10	9	<0.01	<10	<10	15	<10	30	--
C 87285	2	1.79	0.2	<10	240	<0.5	<2	0.10	<0.5	5	24	13	2.20	<10	0.03	10	0.47	162	<1	<0.01	13	120	14	<10	12	0.04	<10	<10	41	<10	40	--
C 87286	<1	1.53	0.2	<10	180	<0.5	<2	0.10	<0.5	5	16	7	2.00	<10	0.02	10	0.54	221	<1	<0.01	9	160	20	<10	10	0.02	<10	<10	39	<10	30	--
C 87287	2	1.25	0.2	<10	160	<0.5	<2	0.09	<0.5	5	21	18	1.98	<10	0.02	10	0.38	149	<1	<0.01	12	110	14	<10	9	0.03	<10	<10	33	<10	40	--
C 87288	2	1.15	0.2	<10	210	<0.5	<2	0.08	<0.5	3	16	10	1.85	<10	0.03	10	0.27	98	<1	<0.01	10	150	22	<10	8	0.03	<10	<10	34	<10	40	--
C 87289	<1	0.84	0.2	<10	250	<0.5	<2	0.27	<0.5	3	13	8	1.49	<10	0.11	20	0.27	122	<1	<0.01	7	210	14	<10	20	0.01	<10	<10	21	<10	30	--
C 87290	10	0.73	0.2	<10	240	<0.5	<2	0.22	<0.5	3	13	7	1.37	<10	0.10	30	0.22	171	<1	<0.01	9	250	14	<10	17	0.01	<10	<10	19	<10	30	--
C 87291	<1	0.39	0.2	10	240	<0.5	<2	0.50	<0.5	3	8	4	0.90	<10	0.06	20	0.23	252	<1	<0.01	7	530	18	<10	46	0.01	<10	<10	10	<10	30	--
C 87292	<1	0.71	0.2	<10	340	<0.5	<2	0.17	<0.5	<1	3	1	0.74	<10	0.09	30	0.12	112	<1	<0.01	1	120	10	<10	17	<0.01	<10	<10	3	<10	20	--
C 87293	6	0.59	0.2	<10	480	<0.5	<2	0.19	<0.5	<1	14	2	1.02	10	0.08	140	0.14	69	<1	<0.01	1	100	32	<10	13	<0.01	60	10	1	<10	30	--
C 87294	102	1.02	0.2	<10	190	<0.5	<2	0.11	<0.5	2	16	4	1.51	<10	0.09	30	0.22	80	<1	<0.01	7	120	22	<10	9	0.02	<10	<10	28	<10	30	--
C 87295	1	1.31	0.2	<10	300	<0.5	<2	0.17	<0.5	5	26	10	2.24	<10	0.08	20	0.39	222	<1	<0.01	14	170	14	<10	15	0.05	<10	<10	41	<10	40	--
C 87296	4	1.90	0.2	<10	540	<0.5	<2	0.41	<0.5	8	29	16	2.51	<10	0.10	30	0.56	260	<1	0.01	17	360	16	<10	37	0.05	<10	<10	46	<10	60	--
C 87297	3	1.67	0.2	10	650	<0.5	<2	0.41	<0.5	9	27	29	2.33	<10	0.06	50	0.50	505	<1	0.01	17	430	14	<10	38	0.05	<10	<10	41	<10	50	--
C 87298	3	1.80	0.2	<10	510	<0.5	2	0.24	<0.5	5	11	6	1.52	10	0.14	40	0.84	188	<1	<0.01	7	260	22	<10	24	<0.01	<10	<10	8	<10	50	--
C 87299	23	1.18	0.2	<10	260	<0.5	<2	0.24	<0.5	4	17	9	1.43	<10	0.04	20	0.52	131	<1	<0.01	8	330	14	<10	20	0.03	<10	<10	23	<10	30	--
C 87300	<1	1.23	0.2	10	250	<0.5	<2	0.18	<0.5	4	16	6	1.69	<10	0.05	10	0.50	125	<1	<0.01	8	220	14	<10	16	0.03	<10	<10	29	<10	40	--
C 87301	14	1.46	0.2	10	280	<0.5	<2	0.25	<0.5	6	23	11	2.13	10	0.08	20	0.58	148	<1	<0.01	11	410	18	<10	17	0.03	<10	<10	31	<10	50	--
C 87302	2	1.33	0.2	<10	310	<0.5	<2	0.22	<0.5	4	19	10	1.93	<10	0.05	20	0.52	129	<1	<0.01	11	260	14	<10	18	0.03	<10	<10	26	<10	40	--
C 87303	3	1.57	0.2	<10	1010	<0.5	<2	0.62	<0.5	8	24	16	2.15	<10	0.10	30	0.36	745	<1	0.01	15	420	16	<10	56	0.03	<10	<10	36	<10	40	--
C 87304	<1	1.27	0.2	<10	480	<0.5	<2	0.34	<0.5	5	20	8	1.93	<10	0.08	20	0.37	162	<1	<0.01	12	340	12	<10	27	0.03	<10	<10	33	<10	30	--
C 87305	2	1.06	0.2	<10	250	<0.5	<2	0.25	<0.5	4	20	7	1.78	<10	0.06	10	0.32	139	<1	<0.01	10	280	12	<10	17	0.05	<10	<10	36	<10	30	--
C 87306	3	1.25	0.2	10	220	<0.5	<2	0.20	<0.5	5	25	10	2.01	<10	0.06	20	0.35	161	<1	<0.01	13	220	22	<10	15	0.05	<10	<10	38	<10	30	--

Certified by *[Signature]*



# Chemex Labs Ltd.

-Analytical Chemists -Geochemists -Registered Assayers

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## Semi quantitative multi element ICP analysis

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

### CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614175-002-A  
INVOICE # : I8614175  
DATE : 15-JUL-86  
P.O. # : NONE  
P-53

COMMENTS :

### Bear Creek Soil

Sample description	Au ppb	NMA ppb	Al Z	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca Z	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe Z	Ga ppm	K Z	La ppm	Mg Z	Mn ppm	Mo ppm	Na Z	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti Z	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
C 87307	5	1.37	0.2	10	260	<0.5	<2	0.20	<0.5	5	21	11	1.94	<10	0.05	20	0.47	150	<1	<0.01	13	130	12	<10	17	0.05	<10	<10	35	<10	40	--
C 87308	<1	1.55	0.4	10	320	<0.5	<2	0.39	<0.5	4	45	7	1.99	10	0.26	40	0.38	233	<1	<0.01	9	430	30	<10	36	0.01	<10	<10	23	<10	50	--
C 87309	1	1.91	0.2	<10	410	<0.5	<2	0.50	<0.5	5	62	13	1.96	10	0.30	40	0.30	373	<1	0.03	11	490	28	<10	45	0.01	<10	<10	27	<10	50	--
C 87310	<1	0.78	0.2	<10	250	<0.5	<2	0.28	<0.5	3	9	4	1.13	<10	0.21	40	0.19	164	<1	<0.01	5	400	22	<10	25	<0.01	<10	<10	11	<10	30	--
C 87311	<1	0.84	0.2	<10	280	<0.5	<2	0.24	<0.5	4	14	7	1.36	<10	0.17	30	0.22	167	<1	<0.01	6	390	24	<10	20	0.02	<10	<10	17	<10	30	--
C 87312	2	0.38	0.2	20	640	<0.5	<2	3.12	<0.5	2	12	8	0.44	10	0.04	10	0.28	351	<1	0.01	7	920	4	<10	250	<0.01	<10	<10	7	<10	20	--
C 87313	3	1.03	0.2	20	1170	<0.5	<2	2.76	<0.5	5	58	17	1.09	10	0.07	30	0.32	421	<1	0.01	15	980	14	<10	236	0.01	<10	<10	16	<10	30	--
C 87314	35	0.95	0.2	10	400	<0.5	<2	0.38	<0.5	4	16	6	1.47	<10	0.12	20	0.29	129	<1	0.01	9	370	16	<10	31	0.03	<10	<10	22	<10	40	--
C 87315	5	1.43	0.2	10	580	<0.5	<2	0.48	<0.5	5	23	9	1.98	<10	0.15	20	0.38	216	<1	0.01	12	470	14	<10	40	0.04	<10	<10	33	<10	50	--
C 87316	2	1.43	0.2	10	580	<0.5	<2	0.40	<0.5	6	24	11	2.13	<10	0.13	30	0.38	226	<1	0.01	14	400	18	<10	34	0.04	<10	<10	38	<10	40	--
C 87317	<1	1.20	0.2	<10	400	<0.5	<2	0.34	<0.5	4	17	8	1.78	<10	0.08	20	0.35	138	<1	0.01	11	410	12	<10	25	0.04	<10	<10	30	<10	40	--
C 87318	<1	1.36	0.2	<10	650	<0.5	<2	0.37	<0.5	6	18	13	2.17	<10	0.12	20	0.35	470	<1	0.01	14	370	22	<10	33	0.03	<10	<10	36	<10	50	--
C 87319	2	1.07	0.2	<10	360	<0.5	<2	0.27	<0.5	4	17	6	1.83	<10	0.07	10	0.33	125	<1	<0.01	10	370	12	<10	19	0.03	<10	<10	30	<10	30	--
C 87320	4	0.95	0.2	<10	290	<0.5	<2	0.22	<0.5	4	15	7	1.74	<10	0.06	10	0.33	104	<1	<0.01	10	280	12	<10	16	0.03	<10	<10	26	<10	30	--
C 87321	1	0.80	0.2	<10	240	<0.5	<2	0.17	<0.5	3	12	6	1.50	<10	0.06	10	0.26	93	<1	<0.01	8	250	8	<10	13	0.03	<10	<10	27	<10	30	--
C 87322	<1	1.06	0.2	<10	310	<0.5	<2	0.18	<0.5	4	16	9	1.86	<10	0.08	10	0.31	119	<1	<0.01	10	220	10	<10	14	0.02	<10	<10	30	<10	30	--
C 87323	<1	1.31	0.2	<10	230	<0.5	<2	0.10	<0.5	4	21	7	2.13	<10	0.04	10	0.30	134	<1	<0.01	10	130	8	<10	9	0.04	<10	<10	43	<10	30	--
C 87324	1	1.37	0.2	<10	370	<0.5	<2	0.27	<0.5	5	21	13	2.08	<10	0.10	20	0.35	153	<1	<0.01	13	250	14	<10	22	0.04	<10	<10	38	<10	40	--
C 87325	<1	1.32	0.2	<10	230	<0.5	<2	0.22	<0.5	4	18	5	1.52	<10	0.08	20	0.35	82	<1	0.01	9	130	20	<10	19	0.06	<10	<10	31	<10	30	--
C 87326	3	1.18	0.2	<10	200	<0.5	<2	0.14	<0.5	4	18	8	1.77	<10	0.05	10	0.38	109	<1	<0.01	10	160	10	<10	13	0.04	<10	<10	35	<10	30	--
C 87327	14	0.76	0.2	<10	640	<0.5	<2	0.12	<0.5	1	8	5	1.23	<10	0.14	70	0.14	120	<1	<0.01	4	240	24	<10	13	0.01	<10	<10	13	<10	20	--
C 87328	1	0.88	0.2	<10	240	<0.5	<2	0.07	<0.5	2	13	6	1.43	<10	0.09	20	0.16	75	<1	<0.01	7	210	16	<10	9	0.02	<10	<10	29	<10	30	--
C 87329	<1	0.56	0.2	<10	300	<0.5	<2	0.08	<0.5	1	48	3	1.03	<10	0.14	50	0.08	150	<1	<0.01	4	290	12	<10	9	0.01	<10	<10	16	<10	20	--
C 87330	<1	1.66	0.2	10	290	<0.5	<2	0.12	<0.5	6	29	13	2.66	<10	0.06	20	0.36	180	<1	<0.01	17	160	14	<10	13	0.04	<10	<10	50	<10	40	--
C 87331	<1	2.48	0.2	<10	500	<0.5	<2	0.11	<0.5	9	65	13	3.21	<10	0.10	30	0.81	165	<1	0.01	24	260	14	<10	14	0.05	<10	<10	55	<10	50	--
C 87332	<1	0.73	0.2	<10	250	<0.5	<2	0.07	<0.5	7	52	7	1.00	<10	0.09	10	0.11	270	<1	0.01	6	300	12	<10	11	0.02	<10	<10	19	<10	20	--
C 87333	<1	1.43	0.2	<10	440	<0.5	<2	0.21	<0.5	4	20	16	1.91	<10	0.05	30	0.29	92	<1	<0.01	15	260	18	<10	19	0.03	<10	<10	34	<10	40	--
C 87334	1	0.91	0.2	<10	230	<0.5	<2	0.17	<0.5	3	16	10	1.34	<10	0.04	30	0.26	78	<1	<0.01	9	260	14	<10	12	0.03	<10	<10	22	<10	30	--
C 87335	<1	1.15	0.2	<10	360	<0.5	<2	0.27	<0.5	4	19	8	1.72	<10	0.04	20	0.35	146	<1	<0.01	11	340	8	<10	20	0.04	<10	<10	30	<10	40	--
C 87336	2	0.75	0.2	<10	270	<0.5	<2	0.14	<0.5	2	14	4	1.11	<10	0.06	30	0.22	62	<1	<0.01	7	160	16	<10	11	0.02	<10	<10	20	<10	20	--
C 87337	7	0.77	0.2	<10	240	<0.5	<2	0.12	<0.5	2	10	4	1.11	<10	0.06	20	0.21	60	<1	<0.01	6	130	12	<10	10	0.02	<10	<10	21	<10	20	--
C 87338	4	0.99	0.2	<10	210	<0.5	<2	0.13	<0.5	4	16	7	1.69	<10	0.06	20	0.26	128	<1	<0.01	9	170	18	<10	10	0.03	<10	<10	31	<10	30	--
C 87339	<1	0.96	0.2	<10	380	<0.5	<2	0.31	<0.5	5	17	7	1.36	<10	0.07	80	0.24	283	<1	<0.01	8	330	26	<10	30	0.02	10	<10	23	<10	30	--
C 87340	2	1.07	0.2	10	300	<0.5	<2	0.29	<0.5	9	20	8	1.61	<10	0.06	60	0.27	937	<1	<0.01	9	450	18	<10	23	0.03	<10	<10	27	<10	40	--
C 87341	4	0.90	0.2	<10	290	<0.5	<2	0.22	<0.5	4	15	5	1.30	<10	0.10	60	0.21	324	<1	<0.01	7	420	20	<10	20	0.02	<10	<10	22	<10	30	--
C 87342	10	1.24	0.2	<10	470	<0.5	<2	0.20	<0.5	4	90	8	1.66	<10	0.30	30	0.19	563	<1	0.01	9	850	28	<10	18	0.02	<10	<10	23	<10	60	--
C 87343	1	1.38	0.2	<10	340	<0.5	<2	0.35	<0.5	4	22	9	1.73	<10	0.07	20	0.35	111	<1	0.01	10	320	6	<10	26	0.05	<10	<10	39	<10	50	--
C 87344	3	1.30	0.2	10	250	<0.5	<2	0.29	<0.5	5	22	8	1.97	<10	0.04	10	0.41	153	<1	<0.01	13	380	6	<10	19	0.06	<10	<10	40	<10	50	--
C 87345	2	1.34	0.2	<10	330	<0.5	<2	0.34	<0.5	6	25	17	1.97	<10	0.04	20	0.47	189	<1	0.01	15	500	12	<10	23	0.06	<10	<10	37	<10	50	--
C 87346	30	1.43	0.2	10	290	<0.5	<2	0.36	<0.5	5	23	11	2.09	<10	0.05	10	0.41	167	<1	<0.01	13	410	10	<10	24	0.05	<10	<10	41	<10	50	--

Certified by: *H. B. Beckler*



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Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614175-003-A  
INVOICE # : I8614175  
DATE : 15-JUL-86  
P.O. # : NONE  
P-53

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

COMMENTS :

Bear Creek Soil

Sample description	Au NAA ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg ppm	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
C 87399	<1	1.44	0.2	10	550 <0.5	<2	0.39 <0.5	5	20	13	1.98	<10	0.03	20	0.36	131	<1	<0.01	13	320	8	<10	30	0.05	<10	<10	39	<10	50	--	
C 87400	<1	1.28	0.2	10	180 <0.5	<2	0.24 <0.5	4	20	9	1.77	<10	0.03	20	0.39	107	<1	<0.01	11	360	6	<10	16	0.06	<10	<10	35	<10	40	--	
C 87401	8	1.33	0.2	<10	190 <0.5	<2	0.25 <0.5	5	22	11	1.92	<10	0.03	20	0.39	125	<1	<0.01	13	420	4	<10	17	0.07	<10	<10	38	<10	40	--	
C 87402	2	1.29	0.2	<10	210 <0.5	<2	0.23 <0.5	4	20	11	1.86	<10	0.02	20	0.39	110	<1	<0.01	13	360	6	<10	16	0.06	<10	<10	35	<10	40	--	
C 87403	5	1.30	0.2	10	230 <0.5	<2	0.26 <0.5	5	22	12	1.88	<10	0.03	20	0.38	111	<1	<0.01	12	420	8	<10	18	0.06	<10	<10	35	<10	50	--	
C 87404	2	1.28	0.2	10	320 <0.5	<2	0.33 <0.5	4	18	13	1.85	<10	0.03	10	0.33	99	<1	<0.01	12	420	6	<10	22	0.03	<10	<10	33	<10	50	--	
C 87405	3	1.11	0.2	10	300 <0.5	<2	0.34 <0.5	5	19	9	1.79	<10	0.02	10	0.34	150	<1	<0.01	12	450	8	<10	21	0.04	<10	<10	32	<10	50	--	
C 87406	2	1.17	0.2	10	300 <0.5	<2	0.32 <0.5	5	21	12	1.90	<10	0.03	10	0.36	158	<1	<0.01	13	500	8	<10	20	0.04	<10	<10	34	<10	50	--	
C 87407	4	1.31	0.2	10	250 <0.5	<2	0.30 <0.5	4	23	10	2.05	<10	0.04	10	0.37	122	<1	<0.01	13	430	8	<10	19	0.05	<10	<10	39	<10	50	--	
C 87408	11	1.42	0.2	10	280 <0.5	<2	0.36 <0.5	6	26	14	2.14	<10	0.06	30	0.46	215	<1	<0.01	15	530	12	<10	24	0.08	<10	<10	40	<10	60	--	
C 87409	2	1.26	0.2	<10	240 <0.5	<2	0.34 <0.5	4	18	7	1.81	<10	0.04	20	0.36	167	<1	<0.01	11	440	8	<10	23	0.06	<10	<10	33	<10	50	--	
C 87410	<1	1.11	0.2	10	210 <0.5	<2	0.28 <0.5	4	18	9	1.67	<10	0.03	20	0.43	132	<1	<0.01	12	500	8	<10	18	0.05	<10	<10	28	<10	50	--	
C 87411	<1	1.22	0.2	10	210 <0.5	<2	0.27 <0.5	4	17	8	1.71	<10	0.04	10	0.38	132	<1	<0.01	11	410	8	<10	17	0.05	<10	<10	34	<10	50	--	
C 87412	1	1.35	0.2	<10	330 <0.5	<2	0.33 <0.5	5	20	13	2.00	<10	0.04	10	0.38	178	<1	<0.01	13	490	8	<10	23	0.04	<10	<10	36	<10	60	--	
C 87413	6	1.19	0.2	<10	250 <0.5	<2	0.27 <0.5	4	21	10	1.75	<10	0.03	20	0.38	130	<1	<0.01	11	410	6	<10	17	0.06	<10	<10	34	<10	40	--	
C 87414	1	1.45	0.2	10	300 <0.5	<2	0.34 <0.5	5	25	9	1.99	<10	0.05	20	0.43	148	<1	<0.01	13	440	10	<10	23	0.06	<10	<10	39	<10	50	--	
C 87415	5	1.44	0.2	<10	330 <0.5	<2	0.30 <0.5	5	26	12	2.02	<10	0.04	20	0.42	147	<1	<0.01	14	490	8	<10	21	0.07	<10	<10	40	<10	50	--	
C 87416	2	1.29	0.2	<10	180 <0.5	<2	0.27 <0.5	5	23	8	1.86	<10	0.08	20	0.36	153	<1	<0.01	11	400	10	<10	17	0.06	<10	<10	35	<10	40	--	
C 87417	8	1.42	0.2	10	290 <0.5	<2	0.38 <0.5	4	23	11	1.89	<10	0.07	30	0.35	131	<1	<0.01	13	530	12	<10	27	0.03	<10	<10	32	<10	50	--	
C 87418	1	1.15	0.2	<10	190 <0.5	<2	0.24 <0.5	4	20	6	1.72	<10	0.05	20	0.35	136	<1	<0.01	10	400	8	<10	16	0.05	<10	<10	32	<10	40	--	
C 87419	2	0.81	0.2	<10	150 <0.5	<2	0.18 <0.5	2	11	3	1.15	<10	0.05	40	0.22	88	<1	<0.01	6	290	10	<10	12	0.04	<10	<10	21	<10	30	--	
C 87420	5	0.56	0.2	20	430 <0.5	<2	1.51 <0.5	3	17	7	0.83	10	0.03	120	0.23	315	<1	<0.01	6	810	14	<10	102	<0.01	10	<10	5	<10	20	--	
C 87421	<1	0.58	0.2	<10	200 <0.5	<2	0.17 <0.5	2	8	4	0.93	<10	0.09	90	0.11	136	<1	<0.01	4	330	20	<10	16	<0.01	10	<10	12	<10	20	--	
C 87422	7	0.98	0.2	<10	100 <0.5	<2	0.08 <0.5	2	15	5	1.87	<10	0.06	20	0.19	94	<1	<0.01	7	230	14	<10	8	0.04	<10	<10	43	<10	30	--	
C 87423	32	0.74	0.2	<10	130 <0.5	<2	0.06 <0.5	1	9	4	1.26	<10	0.09	30	0.14	59	<1	<0.01	6	110	20	<10	6	0.02	<10	<10	19	<10	20	--	
C 87424	219	0.74	0.2	<10	180 <0.5	<2	0.07 <0.5	2	11	5	1.33	<10	0.08	50	0.15	62	<1	<0.01	5	70	20	<10	7	0.02	<10	<10	18	<10	20	--	
C 87425	<1	0.70	0.2	<10	280 <0.5	<2	0.28 <0.5	4	12	6	1.24	<10	0.06	60	0.23	279	<1	<0.01	7	360	24	<10	24	0.02	<10	<10	18	<10	30	--	
C 87426	3	0.92	0.2	10	490 <0.5	<2	0.68 <0.5	6	16	14	1.58	<10	0.04	30	0.31	424	<1	<0.01	13	510	12	<10	57	0.02	<10	<10	26	<10	40	--	
C 87437	10	0.93	0.2	<10	370 <0.5	<2	0.35 <0.5	6	14	10	1.63	<10	0.03	20	0.29	315	<1	<0.01	10	450	6	<10	25	0.03	<10	<10	29	<10	40	--	
C 87438	4	1.31	0.2	10	570 <0.5	<2	0.44 <0.5	9	17	14	2.03	<10	0.05	20	0.33	663	<1	<0.01	14	390	14	<10	33	0.03	<10	<10	31	<10	50	--	
C 87439	2	1.25	0.2	<10	570 <0.5	<2	0.37 <0.5	6	17	12	2.09	<10	0.08	20	0.32	313	<1	<0.01	13	400	16	<10	26	0.02	<10	<10	35	<10	50	--	
C 87441	3	1.04	0.2	10	130 <0.5	<2	0.07 <0.5	3	13	6	1.74	<10	0.04	10	0.20	95	<1	<0.01	9	140	6	<10	7	0.04	<10	<10	38	<10	20	--	
C 87442	<1	0.77	0.2	10	180 <0.5	<2	0.16 <0.5	1	63	3	0.87	<10	0.23	20	0.08	138	<1	<0.01	4	450	12	<10	13	<0.01	<10	<10	16	<10	20	--	
C 87443	2	0.43	0.2	<10	90 <0.5	<2	0.07 <0.5	<1	1	2	0.68	<10	0.12	20	0.09	41	<1	<0.01	1	200	16	<10	10	<0.01	<10	<10	3	<10	20	--	
C 87444	<1	0.47	0.2	<10	200 <0.5	<2	0.06 <0.5	1	1	2	0.43	<10	0.17	20	0.04	483	<1	<0.01	1	340	14	<10	8	<0.01	<10	<10	6	<10	10	--	
C 87445	4	0.73	0.2	20	240 <0.5	<2	0.28 <0.5	4	10	6	1.25	<10	0.11	20	0.28	234	<1	<0.01	8	480	12	<10	24	0.02	<10	<10	19	<10	40	--	
C 87446	5	0.72	0.2	10	470 <0.5	<2	0.47 <0.5	4	12	10	1.35	<10	0.15	40	0.22	239	<1	<0.01	9	320	20	<10	34	0.01	<10	<10	16	<10	30	--	
C 87447	<1	0.85	0.2	<10	400 <0.5	<2	0.26 <0.5	2	8	3	1.40	<10	0.09	20	0.21	120	<1	<0.01	7	120	12	<10	22	0.01	<10	<10	25	<10	20	--	
C 87448	<1	0.87	0.2	<10	420 <0.5	<2	0.26 <0.5	3	7	4	1.35	<10	0.24	40	0.35	179	<1	<0.01	4	200	10	<10	22	<0.01	<10	<10	12	<10	30	--	
C 87449	2	1.10	0.2	<10	240 <0.5	<2	0.17 <0.5	4	20	8	1.90	<10	0.06	10	0.31	141	<1	<0.01	12	110	8	<10	14	0.06	<10	<10	41	<10	30	--	

Certified by: *David Becker*



# Chemex Labs Ltd.

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Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

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

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614175-004-A  
INVOICE # : I8614175  
DATE : 15-JUL-86  
P.O. # : NONE  
P-53

COMMENTS :

### Bear Creek Soil

Sample description	Au ppb	NA %	Al ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
C 87450	<1	1.00	0.2	<10	200	<0.5	<2	0.11	<0.5	3	15	5	1.76	<10	0.06	10	0.25	111	<1	<0.01	9	100	12	<10	10	0.03	<10	<10	35	<10	20	--
C 87451	100	0.87	0.2	<10	210	<0.5	<2	0.13	<0.5	3	13	3	1.47	<10	0.10	20	0.24	125	<1	<0.01	7	120	6	<10	11	0.03	<10	<10	30	<10	20	--
C 87452	<1	1.26	0.2	<10	240	<0.5	<2	0.21	<0.5	5	22	7	1.92	<10	0.07	20	0.37	147	<1	<0.01	11	130	10	<10	17	0.05	<10	<10	38	<10	40	--
C 87453	<1	1.10	0.2	<10	270	<0.5	<2	0.20	<0.5	5	20	9	1.83	<10	0.06	20	0.36	164	<1	<0.01	11	150	12	<10	16	0.05	<10	<10	34	<10	30	--
C 87454	7	1.02	0.2	<10	340	<0.5	<2	0.29	<0.5	5	15	7	1.64	<10	0.06	20	0.31	174	<1	<0.01	9	310	8	<10	21	0.03	<10	<10	30	<10	30	--
C 87455	1	1.08	0.2	<10	320	<0.5	<2	0.09	<0.5	3	10	5	1.53	<10	0.06	20	0.26	99	<1	<0.01	8	100	12	<10	9	0.02	<10	<10	24	<10	20	--
C 87456	2	0.94	0.2	<10	120	<0.5	<2	0.07	<0.5	3	5	2	1.18	<10	0.02	<10	0.48	79	<1	<0.01	5	90	8	<10	8	0.02	<10	<10	20	<10	30	--
C 87457	<1	0.94	0.2	<10	230	<0.5	<2	0.13	<0.5	4	15	7	1.65	<10	0.05	10	0.28	127	<1	<0.01	10	140	6	<10	10	0.03	<10	<10	32	<10	30	--
C 87458	7	1.00	0.2	<10	170	<0.5	<2	0.10	<0.5	3	17	5	1.76	<10	0.06	10	0.27	109	<1	<0.01	8	130	8	<10	8	0.05	<10	<10	40	<10	20	--
C 87459	9	0.91	0.2	<10	360	<0.5	<2	0.21	<0.5	3	15	7	1.42	<10	0.10	20	0.29	144	<1	<0.01	9	160	14	<10	14	0.03	<10	<10	25	<10	30	--
C 87460	<1	0.84	0.2	<10	300	<0.5	<2	0.11	<0.5	2	7	3	1.06	<10	0.10	30	0.25	57	<1	<0.01	5	130	10	<10	10	0.01	<10	<10	12	<10	30	--
C 87461	<1	0.61	0.2	<10	160	<0.5	<2	0.08	<0.5	1	5	1	0.76	<10	0.10	30	0.13	29	<1	<0.01	3	160	10	<10	8	<0.01	<10	<10	7	<10	20	--
C 87462	1	0.74	0.2	<10	290	<0.5	<2	0.14	<0.5	2	10	4	1.14	<10	0.11	20	0.19	112	<1	<0.01	6	220	10	<10	13	0.03	<10	<10	22	<10	20	--
C 87463	<1	1.00	0.2	<10	220	<0.5	<2	0.14	<0.5	4	15	8	1.51	<10	0.06	20	0.33	111	<1	<0.01	9	190	10	<10	12	0.04	<10	<10	27	<10	30	--
C 87464	<1	1.06	0.2	<10	420	<0.5	<2	0.27	<0.5	4	15	5	1.40	<10	0.07	20	0.36	172	<1	<0.01	9	250	10	<10	47	0.03	<10	<10	24	<10	30	--
C 87465	<1	0.74	0.2	<10	170	<0.5	<2	0.18	<0.5	2	6	2	0.89	<10	0.07	20	0.39	73	<1	<0.01	5	320	14	<10	25	0.02	<10	<10	10	<10	20	--
C 87466	3	1.14	0.2	40	550	<0.5	<2	0.84	<0.5	7	21	17	1.66	<10	0.13	40	0.49	450	<1	<0.01	15	540	36	<10	88	0.01	<10	<10	23	<10	70	--
C 87467	6	1.05	0.2	30	390	<0.5	<2	0.42	<0.5	6	18	11	1.52	<10	0.06	30	0.44	161	<1	<0.01	14	570	24	<10	55	0.02	<10	<10	20	<10	80	--
C 87468	4	1.09	0.2	60	280	<0.5	<2	0.33	<0.5	8	18	11	2.03	<10	0.05	20	0.42	342	<1	<0.01	14	570	30	<10	35	0.02	<10	<10	31	<10	70	--
C 87469	2	0.90	0.2	30	590	<0.5	<2	0.43	<0.5	4	10	8	1.59	<10	0.18	40	0.22	155	<1	<0.01	8	450	20	<10	38	0.01	<10	<10	19	<10	30	--
C 87470	2	0.66	0.2	20	150	<0.5	<2	0.06	<0.5	1	5	4	1.06	<10	0.12	30	0.13	73	<1	<0.01	4	280	12	<10	8	<0.01	<10	<10	15	<10	20	--
C 87471	<1	1.11	0.2	10	180	<0.5	<2	0.14	<0.5	3	<1	4	1.46	<10	0.07	20	0.45	120	<1	<0.01	4	310	18	<10	11	<0.01	<10	<10	8	<10	40	--
C 87473	2	0.85	0.2	10	270	<0.5	<2	0.42	<0.5	6	12	6	1.49	<10	0.15	30	0.27	226	<1	<0.01	9	550	12	<10	34	0.03	<10	<10	24	<10	40	--
C 87474	<1	0.91	0.2	10	440	<0.5	<3	0.39	<0.5	6	11	9	1.33	<10	0.14	40	0.25	497	<1	<0.01	10	510	20	<10	38	0.02	<10	<10	21	<10	40	--
C 87475	4	1.61	0.2	50	760	<0.5	<2	1.05	<0.5	4	10	13	1.78	10	0.37	50	0.22	302	<1	<0.01	6	780	50	<10	152	<0.01	<10	20	12	<10	40	--
C 87476	<1	0.69	0.2	10	300	<0.5	<2	0.41	<0.5	1	4	2	0.80	<10	0.15	30	0.14	70	<1	<0.01	2	190	10	<10	52	<0.01	<10	<10	9	<10	10	--
C 87477	14	1.19	0.2	<10	210	<0.5	<2	0.22	<0.5	5	17	7	1.86	<10	0.06	10	0.37	189	<1	<0.01	9	520	4	<10	16	0.03	<10	<10	28	<10	40	--
C 87478	1	0.89	0.2	<10	190	<0.5	<2	0.21	<0.5	4	14	6	1.54	<10	0.06	10	0.32	150	<1	<0.01	8	490	4	<10	15	0.03	<10	<10	23	<10	40	--
C 87479	4	0.93	0.2	<10	270	<0.5	<2	0.32	<0.5	4	14	8	1.54	<10	0.07	20	0.28	139	<1	<0.01	9	510	8	<10	28	0.03	<10	<10	23	<10	40	--
C 87480	23	1.29	0.2	10	370	<0.5	<2	0.38	<0.5	4	19	12	2.04	<10	0.10	20	0.37	111	<1	<0.01	12	500	8	<10	35	0.05	<10	<10	33	<10	40	--
C 87481	<1	1.34	0.2	<10	410	<0.5	<2	0.39	<0.5	6	17	10	1.93	<10	0.07	20	0.35	160	<1	<0.01	11	460	8	<10	39	0.04	<10	<10	32	<10	50	--
C 87482	12	1.12	0.2	10	290	<0.5	<2	0.34	<0.5	4	18	9	1.85	<10	0.06	20	0.32	103	<1	<0.01	10	540	6	<10	29	0.05	<10	<10	32	<10	40	--
C 87483	3	1.06	0.2	10	250	<0.5	<2	0.34	<0.5	5	16	8	1.94	<10	0.06	10	0.34	145	<1	<0.01	9	620	6	<10	26	0.04	<10	<10	30	<10	50	--
C 87484	4	0.93	0.2	10	240	<0.5	<2	0.43	<0.5	3	13	4	1.50	<10	0.04	10	0.29	92	<1	<0.01	8	560	4	<10	35	0.03	<10	<10	25	<10	30	--
C 87485	<1	1.41	0.2	10	370	<0.5	<2	0.40	<0.5	6	19	11	2.18	<10	0.10	30	0.42	369	1	<0.01	11	760	10	<10	29	0.02	<10	<10	29	<10	70	--
C 87486	<1	1.41	0.2	<10	260	<0.5	<2	0.14	<0.5	6	26	11	2.44	<10	0.08	10	0.36	192	<1	<0.01	15	160	8	<10	13	0.05	<10	<10	45	<10	40	--
C 87487	4	1.40	0.2	10	260	<0.5	<2	0.14	<0.5	6	25	10	2.43	<10	0.07	10	0.35	191	<1	<0.01	14	160	8	<10	13	0.05	<10	<10	45	<10	40	--
C 87488	<1	0.88	0.2	<10	220	<0.5	<2	0.12	<0.5	4	7	5	1.32	<10	0.15	20	0.16	211	<1	<0.01	6	460	8	<10	11	0.01	<10	<10	21	<10	30	--
C 87489	3	1.42	0.2	10	240	<0.5	<2	0.20	<0.5	6	25	15	2.29	<10	0.08	20	0.39	202	<1	<0.01	17	240	8	<10	15	0.06	<10	<10	44	<10	40	--
C 87490	<1	1.41	0.2	50	220	<0.5	<2	0.11	<0.5	4	19	6	1.97	<10	0.06	30	0.28	161	<1	<0.01	9	280	10	<10	12	0.04	<10	<10	42	<10	30	--

Certified by *[Signature]*



# Chemex Labs Ltd.

Analytical Chemists · Geochemists · Registered Assayers

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Telex: 043-52597

Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

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

TO : UNITED KENO HILL MINES LIMITED

CERT. # : A8614175-005-A  
INVOICE # : I8614175  
DATE : 15-JUL-86  
P.O. # : NONE  
P-53

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

COMMENTS :

### Bear Creek Soil

Sample description	Au	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn		
	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		
C 87491	1	1.41	0.2	20	290	<0.5	<2	0.15	<0.5	6	26	10	2.32	<10	0.07	10	0.33	171	<1	<0.01	13	190	12	<10	13	0.04	<10	<10	42	<10	40	--
C 87492	2	1.06	0.2	10	330	<0.5	<2	0.29	<0.5	9	20	12	1.60	<10	0.15	30	0.20	519	<1	<0.01	12	380	18	<10	41	0.02	<10	20	25	<10	30	--
C 87501	2	1.38	0.2	10	510	<0.5	<2	0.35	<0.5	6	23	12	1.86	<10	0.08	30	0.40	150	<1	<0.01	12	210	14	<10	26	0.04	<10	<10	32	<10	30	--
C 87502	1	1.42	0.2	10	230	<0.5	<2	0.15	<0.5	6	25	9	1.95	<10	0.05	20	0.48	168	<1	<0.01	12	100	12	<10	13	0.04	<10	<10	36	<10	40	--
C 87503	6	1.74	0.2	10	300	<0.5	<2	0.18	<0.5	8	35	15	2.44	<10	0.07	20	0.46	211	<1	<0.01	17	110	10	<10	17	0.07	<10	<10	48	<10	40	--
C 87504	<1	0.94	0.2	<10	130	<0.5	<2	0.07	<0.5	1	7	3	1.01	<10	0.11	20	0.30	30	<1	<0.01	3	160	14	<10	7	<0.01	<10	<10	8	<10	30	--
C 87505	<1	0.94	0.2	<10	300	<0.5	<2	0.09	<0.5	3	14	6	1.18	<10	0.23	20	0.16	91	<1	<0.01	6	90	8	<10	10	0.02	<10	<10	18	<10	20	--
C 87506	<1	0.59	0.2	<10	360	<0.5	2	0.12	<0.5	1	10	3	0.75	<10	0.20	30	0.09	51	<1	<0.01	3	120	14	<10	11	0.01	<10	<10	9	<10	10	--
C 87507	<1	0.86	0.2	<10	160	<0.5	<2	0.13	<0.5	3	11	3	1.05	<10	0.04	10	0.44	79	<1	<0.01	6	210	12	<10	10	0.02	<10	<10	14	<10	30	--
C 87508	<1	0.66	0.2	<10	150	<0.5	2	0.07	<0.5	2	9	2	0.96	<10	0.08	20	0.23	49	<1	<0.01	5	140	14	<10	7	0.01	<10	<10	14	<10	20	--
C 87509	7	1.20	0.2	10	520	<0.5	<2	0.27	<0.5	5	19	8	1.68	<10	0.12	30	0.34	227	<1	<0.01	9	220	14	<10	22	0.02	<10	<10	26	<10	30	--
C 87510	<1	0.99	0.2	10	350	<0.5	<2	0.23	<0.5	4	18	7	1.55	<10	0.09	20	0.29	159	<1	<0.01	8	210	12	<10	18	0.04	<10	<10	30	<10	30	--
C 87511	<1	1.11	0.2	10	530	<0.5	<2	0.22	<0.5	5	17	5	1.61	<10	0.16	20	0.28	163	<1	<0.01	8	280	14	<10	18	0.02	<10	<10	27	<10	30	--
C 87512	7	0.92	0.2	<10	690	<0.5	<2	0.18	<0.5	3	11	3	1.11	<10	0.19	40	0.12	377	<1	<0.01	5	170	36	<10	16	<0.01	<10	<10	16	<10	20	--
C 87513	2	0.81	0.2	<10	640	<0.5	<2	0.22	<0.5	2	9	3	0.86	<10	0.21	40	0.10	472	<1	<0.01	3	190	18	<10	21	<0.01	<10	<10	14	<10	20	--
C 87514	7	0.96	0.2	40	440	<0.5	<2	0.45	<0.5	7	17	13	1.63	<10	0.11	30	0.44	341	<1	<0.01	13	500	40	<10	48	0.01	<10	<10	19	<10	60	--
C 87515	11	1.08	0.2	10	360	<0.5	<2	0.46	<0.5	8	27	11	2.20	<10	0.09	20	0.46	401	<1	0.01	17	800	12	<10	30	0.06	<10	<10	43	<10	70	--
C 87517	2	1.26	0.2	10	350	<0.5	<2	0.47	<0.5	9	25	13	2.27	<10	0.07	20	0.41	394	<1	0.01	17	610	12	<10	34	0.05	<10	<10	41	<10	60	--
C 87518	1	0.84	0.2	10	310	<0.5	<2	0.46	<0.5	4	14	7	1.36	<10	0.09	30	0.31	173	<1	<0.01	9	500	16	<10	32	0.01	<10	<10	18	<10	40	--
C 87519	3	1.06	0.2	20	430	<0.5	<2	0.50	<0.5	6	21	11	1.66	<10	0.15	30	0.34	235	<1	0.01	13	640	18	<10	36	0.04	<10	<10	28	<10	50	--
C 87520	<1	0.50	0.2	10	240	<0.5	<2	0.27	<0.5	1	3	2	0.49	<10	0.27	20	0.11	58	<1	<0.01	1	140	8	<10	38	<0.01	<10	<10	1	<10	10	--
C 87521	<1	0.38	0.2	10	330	<0.5	<2	0.19	<0.5	1	4	1	0.54	<10	0.21	20	0.09	135	<1	<0.01	1	100	16	<10	29	<0.01	<10	<10	1	<10	10	--
C 87522	1	0.61	0.2	20	300	<0.5	<2	0.08	<0.5	2	5	2	1.04	<10	0.31	40	0.09	215	<1	<0.01	2	170	24	<10	13	<0.01	<10	<10	3	<10	20	--
C 87523	2	1.38	0.2	10	360	<0.5	<2	0.56	<0.5	9	27	10	2.21	<10	0.06	20	0.41	362	<1	0.01	12	610	10	<10	40	0.03	<10	<10	40	<10	40	--
C 87524	<1	1.32	0.2	10	350	<0.5	<2	0.48	<0.5	4	22	8	1.88	<10	0.05	20	0.39	107	<1	<0.01	10	540	10	<10	35	0.03	<10	<10	31	<10	40	--
C 87525	<1	1.27	0.2	10	360	<0.5	<2	0.52	<0.5	6	23	8	1.83	<10	0.04	20	0.37	218	<1	<0.01	10	730	12	<10	37	0.02	<10	<10	33	<10	40	--
C 87526	4	1.22	0.2	10	250	<0.5	<2	0.41	<0.5	4	25	7	1.89	<10	0.06	20	0.37	112	<1	<0.01	10	510	8	<10	28	0.04	<10	<10	34	<10	40	--
C 87527	5	1.38	0.2	10	240	<0.5	<2	0.40	<0.5	6	27	11	2.22	<10	0.04	20	0.50	150	<1	<0.01	13	650	10	<10	27	0.05	<10	<10	37	<10	40	--
C 87528	2	1.39	0.2	10	380	<0.5	<2	0.54	<0.5	4	28	13	1.85	<10	0.05	20	0.44	117	<1	0.01	13	450	6	<10	44	0.04	<10	<10	31	<10	40	--
C 87529	4	1.35	0.2	10	260	<0.5	<2	0.43	<0.5	5	26	8	1.98	<10	0.04	20	0.46	121	<1	0.01	12	490	6	<10	30	0.06	<10	<10	35	<10	40	--
C 87530	3	1.47	0.2	10	330	<0.5	<2	0.58	<0.5	6	31	12	2.15	<10	0.06	20	0.48	206	<1	0.01	14	600	8	<10	40	0.07	<10	<10	40	<10	40	--
C 87531	3	1.32	0.2	10	330	<0.5	<2	0.39	<0.5	8	32	15	1.97	<10	0.08	20	0.42	205	<1	0.01	14	430	10	<10	25	0.06	<10	<10	38	<10	40	--
C 87532	2	1.35	0.2	10	280	<0.5	<2	0.54	<0.5	7	32	15	2.06	<10	0.12	20	0.41	318	<1	0.01	14	510	12	<10	36	0.04	<10	<10	34	<10	40	--
C 87533	3	1.30	0.2	10	160	<0.5	<2	0.23	<0.5	4	24	7	1.98	<10	0.06	10	0.36	122	<1	<0.01	11	350	10	<10	14	0.04	<10	<10	36	<10	30	--
C 87534	<1	1.15	0.2	10	250	<0.5	<2	0.25	<0.5	5	26	11	1.84	<10	0.04	10	0.40	138	<1	<0.01	12	320	8	<10	15	0.05	<10	<10	32	<10	30	--
C 87535	6	1.13	0.2	10	200	<0.5	<2	0.27	<0.5	5	25	8	1.88	<10	0.05	10	0.54	143	<1	<0.01	10	390	8	<10	15	0.04	<10	<10	27	<10	40	--
C 87536	2	1.22	0.2	10	260	<0.5	<2	0.34	<0.5	6	30	10	2.07	<10	0.06	20	0.48	149	<1	<0.01	12	530	10	<10	19	0.04	<10	<10	32	<10	50	--
C 87537	14	1.19	0.2	10	290	<0.5	<2	0.36	<0.5	5	26	12	2.02	<10	0.08	20	0.41	164	<1	<0.01	11	590	8	<10	21	0.04	<10	<10	33	<10	60	--
C 87538	2	1.52	0.2	20	360	<0.5	<2	0.47	<0.5	5	34	13	2.40	<10	0.10	20	0.49	193	<1	<0.01	13	820	6	<10	29	0.04	<10	<10	40	<10	70	--
C 87539	6	1.25	0.2	10	360	<0.5	<2	0.41	<0.5	6	22	15	2.02	<10	0.15	20	0.41	236	<1	<0.01	12	730	6	<10	26	0.04	<10	<10	33	<10	60	--

Certified by *Hout Bickler*



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Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614175-006-A  
INVOICE # : I8614175  
DATE : 15-JUL-86  
P.O. # : NONE  
P-53

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

COMMENTS :

Bear Creek Soil

Sample description	Au NAA ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
C 87540	2	1.21	0.2	10	300	<0.5	<2	0.28	<0.5	4	20	6	1.85	<10	0.08	20	0.34	157	<1	<0.01	10	490	8	<10	20	0.06	<10	<10	33	<10	40	--
C 87541	12	1.28	0.2	10	330	<0.5	<2	0.35	<0.5	4	22	9	1.97	<10	0.08	20	0.34	145	<1	<0.01	10	610	10	<10	25	0.05	<10	<10	33	<10	40	--
C 87542	<1	1.19	0.2	10	320	<0.5	<2	0.39	<0.5	5	19	7	1.90	<10	0.08	20	0.34	164	<1	<0.01	10	550	8	<10	29	0.06	<10	<10	34	<10	40	--
C 87543	3	1.12	0.2	10	420	<0.5	<2	0.33	<0.5	4	30	9	2.11	<10	0.05	30	0.34	161	2	<0.01	19	590	10	<10	24	0.02	<10	<10	30	<10	50	--
C 87544	4	0.84	0.2	10	310	<0.5	<2	0.38	<0.5	4	11	6	1.48	<10	0.04	10	0.26	147	<1	<0.01	7	720	6	<10	26	0.01	<10	<10	21	<10	40	--
C 87545	3	1.12	0.2	<10	430	<0.5	<2	0.31	<0.5	3	15	9	1.73	<10	0.04	20	0.33	97	<1	<0.01	9	630	12	<10	23	0.01	<10	<10	24	<10	50	--
C 87546	2	1.25	0.2	10	470	<0.5	<2	0.38	<0.5	3	17	9	1.82	<10	0.05	20	0.38	101	<1	<0.01	11	560	10	<10	29	0.02	<10	<10	28	<10	50	--
C 87547	2	1.27	0.2	<10	440	<0.5	<2	0.34	<0.5	3	18	9	1.60	<10	0.05	20	0.37	103	<1	<0.01	9	590	12	<10	24	0.02	<10	<10	28	<10	50	--
C 87548	<1	0.97	0.2	10	240	<0.5	<2	0.33	<0.5	4	15	5	1.52	<10	0.04	10	0.32	162	<1	<0.01	7	680	8	<10	20	0.03	<10	<10	26	<10	40	--
C 87549	<1	0.92	0.2	10	140	<0.5	<2	0.26	<0.5	3	21	6	1.45	<10	0.10	10	0.37	89	<1	<0.01	7	400	6	<10	15	0.03	<10	<10	21	<10	40	--
C 87550	<1	0.99	0.2	10	200	<0.5	<2	0.22	<0.5	6	23	12	1.87	<10	0.12	10	0.38	179	<1	<0.01	10	380	10	<10	16	0.04	<10	<10	24	<10	50	--
C 87551	2	1.27	0.2	10	340	<0.5	<2	0.33	<0.5	6	29	16	2.21	<10	0.07	20	0.43	184	<1	<0.01	15	440	10	<10	21	0.06	<10	<10	39	<10	50	--
C 87552	<1	0.46	0.2	<10	130	<0.5	<2	0.11	<0.5	1	11	6	1.25	<10	0.11	20	0.14	76	<1	<0.01	5	230	10	<10	13	0.01	<10	<10	12	<10	30	--
C 87553	30	0.68	0.2	<10	160	<0.5	<2	0.17	<0.5	3	14	6	1.39	<10	0.10	10	0.21	78	<1	<0.01	6	260	12	<10	12	0.02	<10	<10	19	<10	30	--
C 87554	1	0.80	0.2	10	140	<0.5	<2	0.09	<0.5	3	13	6	1.44	<10	0.09	10	0.18	84	<1	<0.01	7	110	8	<10	9	0.03	<10	<10	23	<10	20	--
C 87555	7	0.99	0.2	10	320	<0.5	<2	0.30	<0.5	5	20	10	1.72	<10	0.10	20	0.30	131	<1	<0.01	10	260	12	<10	15	0.05	<10	<10	29	<10	30	--
C 87556	4	0.99	0.2	<10	160	<0.5	<2	0.17	<0.5	4	18	7	1.68	<10	0.08	10	0.28	102	<1	<0.01	9	280	10	<10	12	0.04	<10	<10	28	<10	30	--
C 87575	1	1.30	0.2	10	490	<0.5	<2	0.48	<0.5	6	30	19	1.99	<10	0.13	20	0.43	194	<1	<0.01	17	210	20	<10	27	0.03	<10	<10	34	<10	40	--
C 87576	<1	1.18	0.2	10	370	<0.5	<2	0.44	<0.5	8	29	20	2.16	<10	0.16	20	0.53	309	<1	<0.01	19	580	18	<10	22	0.03	<10	<10	31	<10	40	--
C 87577	2	1.24	0.2	10	320	<0.5	<2	0.35	<0.5	7	30	16	1.93	<10	0.14	20	0.57	199	<1	<0.01	18	440	14	<10	20	0.07	<10	<10	32	<10	30	--
C 87578	5	0.96	0.2	20	450	<0.5	<2	0.33	<0.5	5	37	13	1.54	10	0.25	40	0.40	375	2	<0.01	24	410	26	<10	33	0.01	<10	<10	19	<10	40	--
C 87579	7	0.87	0.6	10	420	<0.5	<2	0.36	<0.5	4	15	27	1.43	10	0.13	60	0.46	299	1	<0.01	10	310	70	<10	51	<0.01	10	<10	8	<10	70	--
C 87580	6	0.92	0.2	20	330	<0.5	<2	0.47	<0.5	5	18	15	1.59	<10	0.04	20	0.42	221	<1	<0.03	15	630	30	<10	36	0.03	<10	<10	25	<10	70	--
C 87581	17	0.90	0.2	40	330	<0.5	<2	0.53	<0.5	6	19	11	1.54	<10	0.07	20	0.41	354	<1	<0.01	15	540	32	<10	66	0.02	<10	<10	21	<10	80	--
C 87582	3	0.34	0.2	20	420	<0.5	<2	0.47	<0.5	4	36	4	0.97	<10	0.02	10	0.06	153	<1	<0.01	5	800	16	<10	43	<0.01	<10	<10	2	<10	20	--
C 87583	3	0.99	0.2	20	320	<0.5	<2	0.21	<0.5	4	69	8	1.17	<10	0.20	20	0.27	123	<1	<0.01	10	710	16	<10	21	0.01	<10	<10	16	<10	30	--
C 87585	2	0.69	0.2	<10	210	<0.5	<2	0.10	<0.5	1	9	8	0.71	<10	0.08	20	0.06	45	<1	<0.01	4	640	14	<10	16	<0.01	<10	<10	14	<10	10	--
C 87586	4	1.33	0.2	10	140	<0.5	<2	0.11	<0.5	3	19	4	1.98	<10	0.10	20	0.23	116	<1	<0.01	7	240	14	<10	11	0.04	<10	<10	41	<10	30	--
C 87587	6	1.18	0.2	10	150	<0.5	<2	0.13	<0.5	3	14	3	1.48	<10	0.09	20	0.18	263	<1	<0.01	5	270	10	<10	11	0.03	<10	<10	36	<10	30	--
C 87588	6	1.19	0.2	10	140	<0.5	<2	0.15	<0.5	6	33	5	1.87	<10	0.14	20	0.24	271	1	<0.01	11	430	24	<10	11	0.03	<10	<10	33	<10	40	--
C 87589	8	1.12	0.2	10	190	<0.5	<2	0.14	<0.5	4	15	6	1.45	<10	0.12	20	0.22	99	<1	<0.01	8	440	16	<10	13	0.02	<10	<10	25	<10	40	--
C 87590	3	1.05	0.2	10	250	<0.5	<2	0.22	<0.5	3	16	7	1.33	<10	0.09	20	0.17	94	<1	<0.01	8	830	12	<10	21	0.01	<10	<10	21	<10	30	--
C 87591	2	1.35	0.2	20	470	<0.5	<2	0.32	<0.5	15	15	9	1.93	<10	0.12	40	0.40	1368	1	0.01	11	450	32	<10	28	0.02	<10	<10	32	<10	60	--
C 87592	4	1.23	0.2	10	320	<0.5	<2	0.40	<0.5	18	13	7	1.73	<10	0.15	40	0.26	1458	1	<0.01	8	530	38	<10	35	0.01	<10	<10	22	<10	40	--
C 87593	1	1.73	0.2	10	390	<0.5	<2	0.45	<0.5	6	26	11	2.41	<10	0.09	20	0.44	206	<1	<0.01	14	380	12	<10	40	0.05	<10	<10	48	<10	50	--
C 87594	3	1.19	0.2	10	470	<0.5	<2	0.68	<0.5	6	16	18	1.80	<10	0.03	20	0.31	136	<1	<0.01	14	560	8	<10	61	0.03	<10	<10	25	<10	30	--
C 87595	5	1.33	0.2	20	640	<0.5	<2	1.22	<0.5	14	20	33	2.38	<10	0.03	30	0.33	727	1	0.01	20	1280	12	<10	108	0.02	<10	<10	34	<10	40	--
C 87596	2	1.32	0.2	10	290	<0.5	<2	0.43	<0.5	5	21	13	2.09	<10	0.02	10	0.43	129	<1	<0.01	13	460	6	<10	32	0.05	<10	<10	35	<10	40	--
C 87597	11	1.08	0.2	10	190	<0.5	<2	0.34	<0.5	4	17	7	1.61	<10	0.03	10	0.36	118	<1	<0.01	9	390	6	<10	24	0.04	<10	<10	32	<10	40	--
C 87598	1	1.35	0.2	10	290	<0.5	<2	0.41	<0.5	7	24	12	1.96	<10	0.04	20	0.47	152	<1	<0.01	13	480	8	<10	29	0.05	<10	<10	34	<10	40	--

Certified by: *H. Bickler*



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## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614176-001-A

INVOICE # : I8614176

DATE : 16-JUL-86

P.O. # : NONE

P-53

Bear Creek Soil

Semi quantitative multi element ICP analysis

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

COMMENTS :

Sample description	Au	HAA	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn
	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
87599	4	1.44	0.2	<10	330	<0.5	<2	0.40	<0.5	6	26	16	2.04	<10	0.04	20	0.49	181	<1	<0.01	14	460	8	<10	31	0.05	<10	<10	39	<10	40	--
87600	<1	0.38	0.2	10	370	<0.5	<2	2.34	<0.5	4	9	9	0.58	<10	0.01	<10	0.25	555	<1	<0.01	7	790	2	<10	170	<0.01	<10	<10	6	<10	10	--
87601	4	1.64	0.2	10	360	<0.5	<2	0.72	<0.5	7	31	16	2.37	<10	0.09	30	0.62	428	<1	<0.01	16	550	14	<10	56	0.04	<10	<10	34	<10	70	--
87602	3	1.18	0.2	<10	330	<0.5	<2	0.37	<0.5	5	21	12	1.83	<10	0.05	20	0.41	140	<1	<0.01	11	440	12	<10	30	0.03	<10	<10	30	<10	30	--
87603	<1	1.33	0.2	<10	490	<0.5	<2	0.60	<0.5	7	28	13	1.91	<10	0.03	20	0.49	399	<1	<0.03	14	480	8	<10	51	0.03	<10	<10	33	<10	40	--
87604	2	1.63	0.2	<10	440	<0.5	<2	0.43	<0.5	9	39	17	2.39	<10	0.04	20	0.63	364	<1	<0.01	16	450	10	<10	36	0.05	<10	<10	42	<10	50	--
87605	6	1.69	0.2	<10	260	<0.5	<2	0.24	<0.5	7	38	13	2.48	<10	0.03	20	0.61	191	<1	<0.01	16	400	10	<10	16	0.06	<10	<10	44	<10	50	--
87606	4	1.54	0.2	<10	260	<0.5	<2	0.24	<0.5	7	43	15	2.47	<10	0.03	20	0.64	219	<1	<0.01	16	400	12	<10	15	0.06	<10	<10	41	<10	50	--
87607	<1	1.72	0.2	10	220	<0.5	<2	0.26	<0.5	8	51	11	2.51	<10	0.05	20	0.72	213	<1	<0.01	15	300	10	<10	17	0.08	<10	<10	49	<10	50	--
87608	<1	1.53	0.2	10	240	<0.5	<2	0.25	<0.5	8	68	9	2.40	<10	0.05	10	0.94	249	<1	<0.01	13	230	10	<10	13	0.07	<10	<10	47	<10	50	--
87609	2	1.11	0.2	<10	430	<0.5	<2	0.37	<0.5	5	18	9	1.59	<10	0.08	30	0.38	227	<1	<0.01	10	500	14	<10	76	0.02	<10	<10	25	<10	40	--
87610	<1	0.83	0.2	<10	280	<0.5	<2	0.32	<0.5	5	13	6	1.61	<10	0.09	20	0.26	254	<1	<0.01	7	400	12	<10	33	0.02	<10	<10	26	<10	30	--
87611	8	0.86	0.2	<10	350	<0.5	<2	0.29	<0.5	4	13	7	1.56	<10	0.06	20	0.26	131	<1	<0.01	8	340	10	<10	31	0.02	<10	<10	25	<10	30	--
87612	4	1.31	0.2	<10	590	<0.5	<2	0.39	<0.5	6	19	14	2.31	<10	0.08	20	0.35	239	<1	<0.01	12	580	14	<10	31	0.02	<10	<10	36	<10	50	--
87613	<1	0.83	0.2	<10	320	<0.5	<2	0.24	<0.5	3	12	7	1.44	<10	0.08	10	0.27	128	<1	<0.01	8	450	8	<10	18	0.03	<10	<10	23	<10	30	--
87614	4	0.96	0.2	<10	390	<0.5	<2	0.28	<0.5	4	15	8	1.64	<10	0.09	20	0.29	143	<1	<0.01	10	560	12	<10	21	0.02	<10	<10	24	<10	40	--
87615	7	1.18	0.2	<10	350	<0.5	<2	0.23	<0.5	6	18	13	1.99	<10	0.07	20	0.33	197	<1	<0.01	11	540	10	<10	18	0.03	<10	<10	32	<10	50	--
87617	3	0.89	0.2	<10	320	<0.5	<2	0.23	<0.5	4	16	10	1.48	<10	0.09	20	0.32	125	<1	<0.01	9	470	14	<10	17	0.04	<10	<10	23	<10	40	--
87618	8	1.06	0.2	<10	230	<0.5	<2	0.24	<0.5	4	17	7	1.73	<10	0.05	10	0.35	115	<1	<0.01	10	570	8	<10	15	0.04	<10	<10	30	<10	40	--
87619	1	0.65	0.2	10	350	<0.5	<2	1.45	<0.5	5	24	10	1.15	<10	0.04	10	0.34	523	<1	<0.01	10	840	6	<10	68	0.02	<10	<10	23	<10	40	--
87620	18	1.29	0.2	10	380	<0.5	<2	0.73	<0.5	9	30	24	2.59	<10	0.05	20	0.51	306	<1	<0.02	24	850	14	<10	36	0.07	<10	<10	51	<10	60	--
87621	7	1.29	0.2	<10	340	<0.5	<2	0.50	<0.5	7	29	22	2.41	<10	0.05	20	0.46	238	<1	<0.01	20	820	8	<10	27	0.07	<10	<10	49	<10	60	--
87622	4	1.24	0.2	10	330	<0.5	<2	0.53	<0.5	6	26	16	2.32	<10	0.04	20	0.47	203	<1	<0.01	19	740	10	<10	31	0.06	<10	<10	47	<10	50	--
87623	4	1.34	0.2	10	500	<0.5	<2	1.10	<0.5	10	30	26	2.69	<10	0.05	20	0.55	683	<1	<0.02	27	850	10	<10	59	0.06	<10	<10	51	<10	70	--
87624	1	1.30	0.2	<10	400	<0.5	<2	0.64	<0.5	10	30	26	2.78	<10	0.05	20	0.55	430	<1	<0.02	25	790	10	<10	35	0.06	<10	<10	51	<10	70	--
87625	16	0.97	0.2	<10	300	<0.5	<2	0.30	<0.5	5	19	10	1.79	<10	0.07	10	0.33	144	<1	<0.01	11	580	10	<10	22	0.05	<10	<10	31	<10	40	--
87626	14	1.07	0.2	<10	320	<0.5	<2	0.33	<0.5	5	21	11	1.93	<10	0.07	20	0.36	155	<1	<0.01	12	620	10	<10	24	0.05	<10	<10	34	<10	50	--
87627	4	1.14	0.2	<10	300	<0.5	<2	0.25	<0.5	3	18	10	1.82	<10	0.06	20	0.31	91	<1	<0.01	9	400	10	<10	20	0.04	<10	<10	34	<10	40	--
87628	8	1.06	0.2	<10	330	<0.5	<2	0.29	<0.5	4	17	10	1.81	<10	0.06	10	0.31	101	<1	<0.01	10	530	9	<10	22	0.04	<10	<10	30	<10	40	--
87631	2	0.70	0.2	<10	190	<0.5	<2	0.27	<0.5	3	11	4	1.24	<10	0.06	20	0.27	111	<1	<0.01	7	370	12	<10	16	0.02	<10	<10	21	<10	30	--
87632	4	0.96	0.2	<10	390	<0.5	<2	0.58	<0.5	4	16	8	1.53	<10	0.04	20	0.32	176	<1	<0.01	8	590	12	<10	42	0.02	<10	<10	24	<10	40	--
87633	13	0.90	0.2	<10	240	<0.5	<2	0.26	<0.5	4	17	5	1.54	<10	0.04	10	0.29	102	<1	<0.01	8	410	12	<10	17	0.03	<10	<10	28	<10	30	--
87634	2	0.96	0.2	<10	280	<0.5	<2	0.27	<0.5	5	17	11	1.97	<10	0.06	10	0.35	146	<1	<0.01	10	590	12	<10	19	0.02	<10	<10	26	<10	40	--
87635	5	1.02	0.2	<10	300	<0.5	<2	0.27	<0.5	4	20	7	1.63	<10	0.05	10	0.35	103	<1	<0.01	10	520	10	<10	18	0.03	<10	<10	29	<10	40	--
87636	2	1.07	0.2	<10	170	<0.5	<2	0.26	<0.5	5	24	9	1.76	<10	0.05	10	0.40	124	<1	<0.01	12	590	10	<10	16	0.04	<10	<10	31	<10	40	--
87637	5	1.19	0.2	<10	190	<0.5	<2	0.26	<0.5	5	21	7	1.84	<10	0.03	10	0.36	111	<1	<0.01	11	500	16	<10	18	0.05	<10	<10	35	<10	40	--
87638	3	1.05	0.2	<10	190	<0.5	<2	0.29	<0.5	5	23	7	1.58	<10	0.05	10	0.42	130	<1	<0.01	10	590	10	<10	18	0.05	<10	<10	27	<10	40	--
87639	4	1.05	0.2	<10	300	<0.5	<2	0.32	<0.5	4	17	12	1.66	<10	0.04	10	0.33	100	<1	<0.01	11	480	8	<10	24	0.03	<10	<10	25	<10	40	--
87640	2	1.11	0.2	<10	290	<0.5	<2	0.30	<0.5	6	25	16	1.93	<10	0.03	20	0.43	149	<1	<0.01	14	560	12	<10	18	0.05	<10	<10	31	<10	50	--
87641	5	1.19	0.2	10	270	<0.5	<2	0.33	<0.5	5	22	10	1.83	<10	0.03	10	0.39	136	<1	<0.01	12	520	10	<10	22	0.06	<10	<10	31	<10	40	--

Certified by *Stuart Bachler*...

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## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614176-002-A  
INVOICE # : I8614176  
DATE : 16-JUL-86  
P.O. # : NONE  
P-53

Semi quantitative multi element ICP analysis

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

COMMENTS :

Bear Creek Soil

Sample description	Au	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn		
	ppb	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm			
87642	<1	0.87	0.2	<10	320	<0.5	<2	0.61	<0.5	4	20	11	1.56	<10	0.02	10	0.33	277	<1	<0.01	10	420	8	<10	36	0.03	<10	<10	26	<10	30	--
87643	3	1.05	0.2	10	330	<0.5	<2	0.71	<0.5	6	29	11	1.90	<10	0.03	20	0.46	368	<1	<0.01	11	630	14	<10	41	0.02	<10	<10	29	<10	40	--
87644	3	1.32	1.4	10	480	<0.5	<2	1.23	<0.5	8	28	15	1.76	<10	0.05	30	0.55	700	<1	<0.01	13	550	20	<10	70	0.03	<10	<10	26	<10	40	--
87645	2	1.51	0.2	10	260	<0.5	<2	0.79	<0.5	8	28	15	2.17	<10	0.04	30	0.77	581	<1	<0.01	14	550	12	<10	47	0.04	<10	<10	28	<10	50	--
87646	6	1.65	0.2	10	260	<0.5	<2	0.65	<0.5	8	22	15	2.17	<10	0.06	30	0.76	517	<1	<0.01	14	480	14	<10	34	0.05	<10	<10	30	<10	50	--
87647	3	2.41	0.2	20	530	<0.5	<2	0.99	<0.5	11	68	31	3.16	10	0.07	80	0.83	959	<1	<0.01	23	680	16	<10	54	0.06	<10	<10	50	<10	70	--
87648	<1	1.71	0.2	10	340	<0.5	<2	0.62	<0.5	10	56	15	2.48	<10	0.04	20	0.85	540	<1	<0.01	15	660	12	<10	33	0.09	<10	<10	43	<10	60	--
87649	5	0.97	0.4	20	790	<0.5	<2	1.42	<0.5	7	15	22	1.38	10	0.09	50	0.24	1147	<1	<0.01	14	900	22	<10	121	0.01	<10	<10	20	<10	50	--
87650	3	1.00	0.2	10	370	<0.5	<2	0.60	<0.5	6	18	12	1.61	<10	0.06	20	0.37	194	<1	<0.01	12	640	12	<10	80	0.04	<10	<10	30	<10	40	--
87651	<1	0.74	0.2	10	280	<0.5	<2	0.47	<0.5	3	8	7	1.25	<10	0.11	20	0.23	150	<1	<0.01	6	300	14	<10	66	0.01	<10	<10	16	<10	20	--
87652	7	0.65	0.2	10	200	<0.5	<2	0.30	<0.5	2	8	5	1.04	<10	0.11	20	0.20	67	<1	<0.01	6	230	10	<10	44	0.01	<10	<10	15	<10	20	--
87654	5	1.02	0.2	10	200	<0.5	<2	0.16	<0.5	4	16	9	1.79	<10	0.08	20	0.25	117	<1	<0.01	9	270	8	<10	15	0.04	<10	<10	34	<10	30	--
87656	2	2.14	0.2	20	470	<0.5	<2	0.12	<0.5	5	24	28	3.06	<10	0.12	30	0.18	127	1	0.01	13	1030	50	<10	18	0.02	<10	<10	37	<10	50	--
87658	<1	0.99	0.2	<10	190	<0.5	<2	0.25	<0.5	4	16	7	1.49	<10	0.11	30	0.28	129	<1	<0.01	8	300	20	<10	22	0.03	<10	<10	22	<10	30	--
87659	<1	0.58	0.2	<10	90	<0.5	<2	0.14	<0.5	2	9	3	0.88	<10	0.09	10	0.23	69	<1	<0.01	4	210	10	<10	12	0.01	<10	<10	12	<10	20	--
87660	1	1.62	0.2	10	240	<0.5	<2	0.36	<0.5	5	23	10	2.19	<10	0.12	20	0.41	159	<1	<0.01	12	310	14	<10	23	0.05	<10	<10	48	<10	50	--
87661	<1	0.95	0.2	<10	260	<0.5	<2	0.32	<0.5	4	13	8	1.60	<10	0.13	30	0.36	208	<1	<0.01	8	420	16	<10	26	0.02	<10	<10	22	<10	40	--
87662	<1	0.56	0.2	<10	170	<0.5	<2	0.11	<0.5	<1	2	2	0.59	<10	0.09	30	0.16	68	<1	<0.01	2	230	16	<10	12	<0.01	<10	<10	5	<10	20	--
87663	2	0.94	0.2	<10	290	<0.5	<2	0.29	<0.5	3	12	8	1.27	<10	0.12	40	0.27	199	<1	<0.01	6	290	24	<10	25	0.02	<10	<10	18	<10	30	--
87664	<1	1.39	0.2	<10	310	<0.5	<2	0.65	<0.5	7	24	13	2.10	<10	0.08	20	0.46	430	<1	<0.01	14	480	14	<10	47	0.04	<10	<10	39	<10	50	--
87665	<1	0.93	0.2	<10	220	<0.5	<2	0.28	<0.5	3	9	4	1.32	<10	0.07	30	0.36	131	<1	<0.01	6	320	16	<10	22	0.01	<10	<10	20	<10	30	--
87666	2	0.78	0.2	<10	150	<0.5	<2	0.33	<0.5	5	15	8	1.41	<10	0.04	10	0.29	238	<1	<0.01	9	540	8	<10	20	0.04	<10	<10	26	<10	30	--
87667	<1	0.59	0.2	<10	170	<0.5	<2	0.21	<0.5	1	7	4	0.96	<10	0.08	30	0.17	59	<1	<0.01	4	260	16	<10	14	0.01	<10	<10	14	<10	20	--
87668	<1	1.08	0.2	<10	300	<0.5	<2	0.20	<0.5	5	14	6	1.34	<10	0.07	40	0.24	178	<1	<0.01	7	640	22	<10	19	0.01	<10	<10	20	<10	30	--
87669	43	0.48	0.4	<10	90	<0.5	<2	0.07	<0.5	<1	2	2	0.79	<10	0.05	30	0.20	59	<1	<0.01	2	120	22	<10	9	0.01	<10	<10	8	<10	20	--
87670	<1	0.73	0.2	<10	200	<0.5	<2	0.16	<0.5	2	8	4	1.16	<10	0.07	60	0.23	103	<1	<0.01	4	250	20	<10	16	0.01	<10	<10	13	<10	30	--
87672	3	0.67	0.2	20	290	<0.5	<2	0.33	<0.5	4	9	6	1.19	<10	0.11	30	0.28	261	<1	<0.01	7	440	16	<10	38	0.02	<10	<10	15	<10	40	--
87673	19	0.74	0.2	10	290	<0.5	<2	0.34	<0.5	4	10	6	1.22	<10	0.10	30	0.27	375	<1	<0.01	8	440	14	<10	38	0.03	<10	<10	18	<10	40	--
87674	22	0.31	0.2	<10	400	<0.5	<2	0.13	<0.5	2	4	1	0.69	<10	0.06	20	0.11	182	<1	<0.01	4	280	12	<10	14	0.01	<10	<10	8	<10	20	--
87675	<1	0.38	0.2	10	290	<0.5	<2	0.10	<0.5	2	114	1	0.72	<10	0.18	20	0.13	278	<1	<0.01	4	140	12	<10	17	<0.01	<10	<10	3	<10	10	--
87676	6	0.35	0.2	10	330	<0.5	<2	0.17	<0.5	2	3	2	0.72	<10	0.12	30	0.17	242	<1	<0.01	4	200	14	<10	26	0.01	<10	<10	5	<10	20	--
87677	13	0.57	0.2	10	310	<0.5	<2	0.35	<0.5	4	10	6	1.07	<10	0.08	20	0.28	179	<1	<0.01	8	460	16	<10	30	0.02	<10	<10	16	<10	40	--
87678	8	0.65	0.2	10	380	<0.5	<2	0.37	<0.5	4	11	11	1.25	<10	0.11	50	0.28	291	<1	<0.01	10	430	20	<10	42	0.02	<10	<10	17	<10	40	--
87679	10	0.51	0.2	10	320	<0.5	<2	0.25	<0.5	3	8	7	1.11	<10	0.09	30	0.22	295	<1	<0.01	7	380	18	<10	32	0.01	<10	<10	13	<10	30	--
87680	6	0.64	0.2	10	310	<0.5	<2	0.30	<0.5	3	9	7	1.11	<10	0.06	40	0.23	152	<1	<0.01	8	420	20	<10	30	0.01	<10	<10	18	<10	40	--
87681	2	0.72	0.2	20	280	<0.5	<2	0.36	<0.5	4	10	9	1.28	<10	0.08	20	0.29	205	<1	<0.01	9	460	14	<10	39	0.02	<10	<10	19	<10	40	--
87682	18	0.76	0.2	20	310	<0.5	<2	0.30	<0.5	5	11	9	1.37	<10	0.10	30	0.31	256	<1	<0.01	9	460	20	<10	37	0.02	<10	<10	19	<10	40	--
87683	2	0.80	0.2	20	350	<0.5	<2	0.34	<0.5	5	12	10	1.37	<10	0.10	40	0.30	233	<1	<0.01	10	480	20	<10	35	0.02	<10	<10	20	<10	40	--
87684	1	0.84	0.2	20	280	<0.5	<2	0.30	<0.5	4	13	8	1.30	<10	0.10	30	0.33	154	<1	<0.01	9	460	16	<10	32	0.03	<10	<10	22	<10	40	--
87691	2	0.93	0.2	<10	260	<0.5	<2	0.22	<0.5	3	11	6	1.17	<10	0.06	40	0.25	116	<1	<0.01	6	500	12	<10	19	0.01	<10	<10	19	<10	30	--

Certified by *Stuart Bichler*...



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-Geochemists

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Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614176-003-A  
INVOICE # : I8614176  
DATE : 16-JUL-86  
P.O. # : NONE  
P-53

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

COMMENTS :

Bear Creek Soil

Sample description	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn	
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb		
87692	<1	0.93	0.2	<10	160	<0.5	<2	0.19	<0.5	3	14	6	1.42	<10	0.05	20	0.29	110	<1	<0.01	7	390	16	<10	14	0.04	<10	<10	26	<10	30	--
87693	2	1.00	0.2	<10	170	<0.5	<2	0.18	<0.5	3	14	6	1.50	<10	0.03	20	0.29	99	<1	<0.01	8	340	8	<10	13	0.04	<10	<10	28	<10	30	--
87694	<1	1.19	0.2	10	200	<0.5	<2	0.19	<0.5	6	31	8	2.27	<10	0.04	10	0.35	227	1	<0.01	12	330	12	<10	14	0.05	<10	44	<10	40	--	
87695	4	1.58	0.2	10	280	<0.5	<2	0.27	<0.5	5	25	13	2.30	<10	0.05	20	0.37	131	<1	<0.01	13	440	12	<10	20	0.06	<10	<10	45	<10	50	--
87696	2	1.36	0.2	10	230	<0.5	<2	0.34	<0.5	7	27	13	2.12	<10	0.05	20	0.43	163	<1	<0.01	14	610	10	<10	22	0.08	<10	<10	41	<10	50	--
87697	4	1.07	0.2	10	210	<0.5	<2	0.31	<0.5	5	22	12	1.81	<10	0.03	10	0.37	145	<1	<0.01	12	590	8	<10	21	0.05	<10	<10	34	<10	40	--
87698	5	1.40	0.2	<10	340	<0.5	<2	0.34	<0.5	6	24	13	1.90	<10	0.04	10	0.36	188	<1	<0.01	13	380	10	<10	26	0.05	<10	<10	35	<10	40	--
87699	<1	0.85	0.2	<10	340	<0.5	<2	0.51	<0.5	4	17	9	1.40	<10	0.01	10	0.33	132	<1	<0.01	8	470	8	<10	31	0.02	<10	<10	22	<10	30	--
87700	2	0.84	0.2	10	460	<0.5	<2	1.24	<0.5	5	14	15	1.42	<10	0.01	20	0.26	194	<1	0.01	11	1040	6	<10	85	0.01	<10	<10	17	<10	20	--
87701	29	0.84	0.2	10	350	<0.5	<2	1.75	<0.5	6	65	12	1.18	<10	0.06	10	0.39	772	<1	0.02	10	720	6	<10	92	0.02	<10	<10	16	<10	30	--
87702	<1	1.08	0.2	10	330	<0.5	<2	2.10	<0.5	6	22	10	1.49	<10	0.03	10	0.51	538	<1	<0.01	10	690	6	<10	102	0.02	<10	<10	20	<10	30	--
87703	<1	1.27	0.2	10	350	<0.5	<2	1.00	<0.5	9	30	13	2.07	<10	0.03	20	0.56	863	<1	<0.01	13	700	12	<10	56	0.03	<10	<10	33	<10	50	--
87704	<1	1.05	0.2	10	490	<0.5	<2	2.47	<0.5	8	62	18	1.45	<10	0.04	10	0.41	1072	1	0.01	14	1110	6	<10	131	0.02	<10	<10	21	<10	40	--
87705	<1	1.20	0.2	10	420	<0.5	<2	1.36	<0.5	7	39	14	1.79	<10	0.04	30	0.61	479	<1	<0.01	13	640	8	<10	76	0.03	<10	<10	24	<10	50	--
87706	<1	1.29	0.2	10	380	<0.5	<2	0.62	<0.5	8	96	9	2.44	<10	0.06	10	0.73	442	<1	0.01	12	320	10	<10	42	0.02	<10	<10	36	<10	60	--
87707	1	1.09	0.2	10	480	<0.5	<2	1.65	0.5	8	36	18	2.02	<10	0.03	20	0.52	895	1	<0.01	15	790	14	<10	113	0.01	<10	<10	20	<10	70	--
87708	2	1.05	0.2	10	340	<0.5	<2	0.32	<0.5	5	31	9	1.89	<10	0.02	10	0.56	234	<1	<0.01	12	490	8	<10	20	0.02	<10	<10	29	<10	50	--
87710	<1	0.77	0.2	<10	290	<0.5	<2	0.34	<0.5	5	14	11	1.40	<10	0.01	20	0.32	361	<1	<0.01	10	470	20	<10	26	0.02	<10	<10	22	<10	40	--
87711	3	1.11	0.2	<10	250	<0.5	<2	0.41	<0.5	6	22	12	1.78	<10	0.03	20	0.39	210	<1	<0.01	13	570	10	<10	26	0.06	<10	<10	34	<10	40	--
87712	1	1.02	0.2	<10	230	<0.5	<2	0.40	<0.5	5	21	10	1.63	<10	0.04	20	0.35	197	<1	<0.01	11	520	8	<10	27	0.06	<10	<10	32	<10	40	--
87713	<1	1.08	0.2	<10	260	<0.5	<2	0.41	<0.5	5	21	12	1.82	<10	0.03	10	0.37	126	<1	<0.01	12	500	8	<10	30	0.05	<10	<10	24	<10	40	--
87714	4	1.12	0.2	10	340	<0.5	<2	0.42	<0.5	5	21	11	1.74	<10	0.02	20	0.35	106	<1	<0.01	11	460	8	<10	31	0.05	<10	<10	33	<10	40	--
87715	3	1.08	0.2	<10	270	<0.5	<2	0.28	<0.5	6	21	12	1.76	<10	0.02	10	0.38	124	<1	<0.01	12	510	8	<10	18	0.04	<10	<10	21	<10	40	--
87716	2	1.92	0.2	<10	550	<0.5	<2	1.45	<0.5	10	38	21	2.65	<10	0.04	20	0.65	374	<1	0.01	20	710	14	<10	91	0.04	<10	<10	45	<10	60	--
87717	2	1.36	0.2	<10	320	<0.5	<2	0.47	<0.5	6	25	15	1.97	<10	0.03	20	0.46	144	<1	0.01	14	470	8	<10	33	0.05	<10	<10	35	<10	50	--
87718	<1	1.05	0.2	<10	220	<0.5	<2	0.26	<0.5	4	18	6	1.54	<10	0.03	10	0.37	105	<1	<0.01	9	370	8	<10	18	0.04	<10	<10	30	<10	30	--
87719	<1	1.12	0.2	<10	370	<0.5	<2	0.33	<0.5	7	21	11	1.91	<10	0.03	20	0.40	220	<1	<0.01	12	420	12	<10	24	0.03	<10	<10	33	<10	40	--
87720	4	1.16	0.2	<10	400	<0.5	<2	0.31	<0.5	7	23	16	2.06	<10	0.02	20	0.43	219	<1	<0.01	14	460	12	<10	23	0.03	<10	<10	33	<10	50	--
87721	<1	1.00	0.2	<10	300	<0.5	<2	0.29	<0.5	5	18	12	1.66	<10	0.02	10	0.36	134	<1	<0.01	11	480	10	<10	20	0.02	<10	<10	27	<10	40	--
87722	2	0.87	0.2	<10	280	<0.5	<2	0.25	<0.5	4	16	10	1.59	<10	0.03	10	0.35	137	<1	<0.01	10	430	10	<10	16	0.02	<10	<10	25	<10	40	--
87723	<1	0.52	0.2	<10	130	<0.5	<2	0.13	<0.5	2	10	4	0.90	<10	0.02	10	0.25	71	<1	<0.01	5	340	6	<10	7	0.01	<10	<10	12	<10	20	--
87724	<1	1.24	0.2	10	380	<0.5	<2	0.32	<0.5	4	22	11	1.82	<10	0.04	20	0.49	164	<1	<0.01	11	380	10	<10	18	0.03	<10	<10	28	<10	40	--
87725	6	1.37	0.2	<10	340	<0.5	<2	0.36	<0.5	8	40	14	2.20	<10	0.03	10	0.59	323	<1	<0.01	13	520	10	<10	20	0.04	<10	<10	36	<10	50	--
87726	3	1.54	0.2	10	420	<0.5	<2	0.49	<0.5	10	48	20	2.22	<10	0.06	20	0.64	673	<1	<0.01	17	590	10	<10	26	0.04	<10	<10	37	<10	40	--
87727	1	1.59	0.2	10	250	<0.5	<2	0.49	<0.5	10	59	12	2.30	<10	0.03	10	0.82	332	<1	<0.01	13	550	4	<10	20	0.08	<10	<10	41	<10	40	--
87731	<1	0.99	0.2	<10	440	<0.5	<2	0.81	<0.5	12	11	11	1.27	<10	0.09	30	0.28	762	<1	0.01	8	710	8	<10	61	0.02	<10	<10	18	<10	30	--
87732	<1	1.16	0.2	10	220	<0.5	<2	0.32	<0.5	5	19	9	1.87	<10	0.03	10	0.35	138	<1	0.01	10	520	10	<10	21	0.05	<10	<10	37	<10	40	--
87733	2	1.02	0.2	<10	220	<0.5	<2	0.29	<0.5	4	16	10	1.73	<10	0.03	10	0.32	124	<1	<0.01	9	490	10	<10	20	0.04	<10	<10	32	<10	30	--
87734	4	1.16	0.2	<10	240	<0.5	<2	0.28	<0.5	4	18	12	1.78	<10	0.02	10	0.37	99	<1	<0.01	11	440	12	<10	19	0.04	<10	<10	32	<10	40	--
87735	<1	1.17	0.2	<10	340	<0.5	<2	0.46	<0.5	4	17	11	1.72	<10	0.01	10	0.39	88	<1	<0.01	11	430	10	<10	34	0.03	<10	<10	25	<10	40	--

Certified by: *Stuart B. Schlen*



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Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614176-004-A  
INVOICE # : I8614176  
DATE : 16-JUL-86  
P.O. # : NONE  
P-53

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

COMMENTS :

Bear Creek Soil

Sample description	Au	HAA	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn
	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	
87756	1	0.97	0.2	<10	260	<0.5	<2	0.31	<0.5	5	16	11	1.67	<10	0.01	10	0.35	114	<1	<0.01	10	460	10	<10	20	0.03	<10	<10	30	<10	30	--
87757	1	1.12	0.2	10	390	<0.5	<2	0.52	<0.5	6	17	15	1.79	<10	0.02	10	0.37	179	<1	<0.01	12	480	8	<10	38	0.02	<10	<10	29	<10	40	--
87758	2	1.21	0.2	10	400	<0.5	<2	0.51	<0.5	5	17	14	1.83	<10	0.02	10	0.41	199	<1	<0.01	11	410	12	<10	35	0.03	<10	<10	32	<10	40	--
87759	<1	1.37	0.2	10	440	<0.5	<2	0.55	<0.5	6	21	16	1.94	<10	0.04	20	0.45	286	<1	<0.01	13	470	10	<10	38	0.03	<10	<10	34	<10	40	--
87760	3	1.20	0.2	<10	450	<0.5	<2	0.61	<0.5	5	19	14	1.85	<10	0.03	20	0.41	283	<1	<0.01	12	460	10	<10	45	0.03	<10	<10	30	<10	40	--
87761	4	1.32	0.2	10	320	<0.5	<2	0.33	<0.5	5	16	13	2.04	<10	0.03	20	0.65	175	<1	<0.01	11	580	14	<10	19	0.02	<10	<10	25	<10	50	--
87762	<1	1.42	0.2	10	330	<0.5	<2	0.35	<0.5	5	19	17	2.28	<10	0.04	40	0.70	228	<1	<0.01	13	560	18	<10	20	0.02	<10	<10	26	<10	50	--
87763	1	1.49	0.2	10	710	<0.5	<2	0.46	<0.5	7	23	23	2.23	<10	0.04	20	0.45	564	<1	<0.01	16	450	14	<10	31	0.03	<10	<10	38	<10	50	--
87764	2	1.36	0.2	10	850	<0.5	<2	0.85	<0.5	8	22	21	2.15	<10	0.02	30	0.44	1023	<1	<0.01	17	620	14	<10	55	0.02	<10	<10	30	<10	60	--
87765	3	1.49	0.2	10	300	<0.5	<2	0.22	<0.5	6	23	18	2.27	<10	0.03	20	0.62	225	<1	<0.01	14	410	10	<10	15	0.02	<10	<10	31	<10	50	--
87766	1	1.72	0.2	10	170	<0.5	<2	0.16	<0.5	6	29	15	2.45	<10	0.03	10	0.87	210	<1	<0.01	14	320	14	<10	12	0.02	<10	<10	33	<10	50	--
87767	2	1.73	0.2	10	190	<0.5	<2	0.13	<0.5	8	47	12	2.64	<10	0.02	10	0.64	227	<1	<0.01	15	160	6	<10	10	0.06	<10	<10	50	<10	40	--
87768	<1	1.74	0.2	10	420	<0.5	<2	0.50	<0.5	9	52	13	2.64	<10	0.03	20	0.74	329	<1	<0.01	17	450	10	<10	26	0.05	<10	<10	47	<10	50	--
87769	2	1.40	0.2	<10	300	<0.5	<2	0.34	<0.5	7	35	11	2.34	<10	0.04	10	0.57	203	<1	<0.01	15	480	8	<10	19	0.06	<10	<10	39	<10	50	--
87770	5	1.68	0.2	10	380	<0.5	<2	0.48	<0.5	9	39	14	2.57	<10	0.03	20	0.74	275	<1	<0.01	16	480	10	<10	26	0.05	<10	<10	39	<10	50	--
87771	<1	0.84	0.2	<10	200	<0.5	<2	0.31	<0.5	3	15	5	1.26	<10	0.03	10	0.29	125	<1	<0.01	8	390	4	<10	16	0.04	<10	<10	25	<10	30	--
87772	<1	1.08	0.2	<10	210	<0.5	<2	0.28	<0.5	4	18	6	1.68	<10	0.03	10	0.46	123	<1	<0.01	9	380	10	<10	15	0.04	<10	<10	28	<10	30	--
87773	<1	1.00	0.2	<10	180	<0.5	<2	0.24	<0.5	4	16	4	1.64	<10	0.03	10	0.42	102	<1	<0.01	9	340	10	<10	13	0.04	<10	<10	32	<10	30	--
87774	8	1.05	0.2	<10	230	<0.5	<2	0.30	<0.5	5	18	10	1.78	<10	0.03	10	0.45	147	<1	<0.01	10	480	8	<10	16	0.04	<10	<10	28	<10	40	--
87775	1	1.74	0.2	10	580	<0.5	<2	0.80	<0.5	9	37	12	2.11	10	0.10	30	0.52	296	1	0.02	13	350	12	<10	54	0.04	<10	<10	33	<10	50	--
87776	2	1.45	0.2	10	460	<0.5	<2	0.86	<0.5	6	51	14	2.11	<10	0.06	20	0.52	244	<1	<0.01	13	430	10	<10	56	0.04	<10	<10	38	<10	50	--
87777	3	1.31	0.2	<10	260	<0.5	<2	0.39	<0.5	5	23	9	1.87	<10	0.04	20	0.46	150	<1	<0.01	12	440	8	<10	23	0.07	<10	<10	37	<10	40	--
87778	<1	1.20	0.2	10	270	<0.5	<2	0.25	<0.5	6	24	10	1.92	<10	0.04	20	0.44	147	<1	<0.01	12	570	6	<10	21	0.07	<10	<10	35	<10	40	--
87779	8	1.19	0.2	10	270	<0.5	<2	0.35	<0.5	6	24	11	1.88	<10	0.03	20	0.44	140	<1	<0.01	12	570	6	<10	20	0.07	<10	<10	34	<10	40	--
87780	3	1.08	0.2	<10	160	<0.5	<2	0.31	<0.5	4	17	4	1.66	<10	0.02	10	0.36	106	<1	<0.01	9	560	4	<10	18	0.06	<10	<10	32	<10	30	--
87781	<1	1.24	0.2	10	270	<0.5	<2	0.38	<0.5	6	24	14	2.05	<10	0.04	20	0.46	178	<1	<0.01	14	580	6	<10	24	0.06	<10	<10	35	<10	50	--
87782	3	1.24	0.2	<10	290	<0.5	<2	0.34	<0.5	4	18	8	1.82	<10	0.04	20	0.36	111	<1	<0.01	10	400	6	<10	23	0.06	<10	<10	34	<10	40	--
87783	<1	1.08	0.2	<10	190	<0.5	2	0.41	<0.5	5	20	9	1.67	<10	0.04	20	0.37	149	<1	<0.01	11	590	6	<10	26	0.07	<10	<10	34	<10	40	--
87784	1	1.14	0.2	<10	290	<0.5	<2	0.54	<0.5	6	16	8	1.62	<10	0.08	20	0.25	223	<1	<0.01	10	410	14	<10	42	0.04	<10	<10	30	<10	40	--
87785	2	1.27	0.2	10	660	<0.5	<2	0.77	<0.5	5	16	10	1.61	10	0.13	40	0.33	200	<1	<0.01	9	560	24	<10	58	0.01	<10	<10	23	<10	40	--
87786	8	1.07	0.2	20	230	<0.5	<2	0.19	<0.5	4	13	7	1.52	<10	0.08	20	0.23	116	<1	<0.01	8	500	10	<10	16	0.03	<10	<10	26	<10	30	--
87787	3	0.70	0.2	40	160	<0.5	<2	0.12	<0.5	3	9	4	1.11	<10	0.20	30	0.17	122	<1	<0.01	5	310	14	<10	9	0.01	<10	<10	16	<10	30	--
87788	7	0.96	0.2	80	570	<0.5	<2	0.25	<0.5	9	14	12	1.78	<10	0.18	30	0.28	558	<1	<0.01	11	610	20	<10	26	0.02	<10	<10	25	<10	50	--
87791	4	0.83	0.2	10	550	<0.5	<2	0.32	<0.5	4	15	8	1.28	10	0.16	40	0.19	336	<1	<0.01	8	200	32	<10	29	0.02	<10	<10	22	<10	20	--
87792	<1	1.04	0.2	<10	450	<0.5	<2	0.21	<0.5	4	15	5	1.48	<10	0.21	30	0.26	185	<1	<0.01	8	200	26	<10	17	0.03	<10	<10	25	<10	30	--
87793	<1	0.97	0.2	<10	330	<0.5	<2	0.21	<0.5	4	14	6	1.54	<10	0.11	10	0.27	107	<1	<0.01	8	270	12	<10	15	0.03	<10	<10	27	<10	30	--
87794	6	1.35	0.2	10	620	<0.5	<2	0.38	<0.5	5	21	12	1.94	<10	0.13	30	0.25	192	<1	<0.01	12	290	10	<10	27	0.04	<10	<10	33	<10	40	--
87795	8	0.90	0.2	<10	270	<0.5	<2	0.24	<0.5	3	14	7	1.38	<10	0.13	30	0.27	98	<1	<0.01	8	290	14	<10	17	0.05	<10	<10	27	<10	30	--
87796	<1	1.05	0.2	<10	470	<0.5	<2	0.34	<0.5	4	15	6	1.65	<10	0.10	20	0.32	145	<1	<0.01	8	230	8	<10	27	0.04	<10	<10	30	<10	40	--
87797	3	1.82	0.2	<10	540	<0.5	2	0.40	<0.5	7	10	8	1.88	10	0.03	50	1.12	237	<1	<0.01	8	530	20	<10	31	0.01	<10	<10	11	<10	60	--

Certified by *Frank Buchler*



# Chemex Labs Ltd.

-Analytical Chemists -Geochemists -Registered Assayers

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Telephone: (604) 984-0221  
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Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

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

TO : UNITED KENO HILL MINES LIMITED

CERT. # : A8614176-005-A  
INVOICE # : I8614176  
DATE : 16-JUL-86  
P.O. # : NONE  
P-53

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

COMMENTS :

Bear Creek Soil

Sample description	Au	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn			
	ppb	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm				
87798	10 <sup>1</sup>	1.41	0.2	<10	340	<0.5	<2	0.22	<0.5	5	16	8	1.97	<10	0.06	20	0.40	153	<1	<0.01	11	310	12	<10	18	0.04	<10	<10	37	<10	40	--	
87799	2	1.39	0.2	<10	410	<0.5	<2	0.41	<0.5	5	13	11	1.67	<10	0.08	20	0.51	324	<1	<0.01	11	380	12	<10	37	0.04	<10	<10	27	<10	40	--	
87800	46	1.36	0.2	<10	330	<0.5	<2	0.29	<0.5	5	18	14	1.75	<10	0.03	20	0.48	135	<1	<0.01	13	310	6	<10	23	0.06	<10	<10	32	<10	40	--	
87801	11	1.27	0.6	<10	350	<0.5	<2	0.34	<0.5	5	18	10	1.81	<10	0.04	20	0.45	144	<1	<0.01	13	390	10	<10	25	0.06	<10	<10	35	<10	50	--	
87802	2	1.40	0.2	<10	400	<0.5	<2	0.37	<0.5	7	22	22	2.14	<10	0.05	20	0.52	198	<1	<0.01	18	360	12	<10	29	0.07	<10	<10	40	<10	50	--	
87803	4	1.33	0.2	<10	280	<0.5	<2	0.28	<0.5	5	17	11	1.79	<10	0.03	20	0.49	142	<1	<0.01	12	310	8	<10	22	0.06	<10	<10	33	<10	40	--	
87804	14	1.25	0.2	10	380	<0.5	<2	0.36	<0.5	6	20	12	2.11	<10	0.04	20	0.40	167	<1	<0.01	15	410	8	<10	25	0.06	<10	<10	39	<10	40	--	
87805	3	1.31	0.2	10	430	<0.5	<2	0.39	<0.5	6	17	11	1.92	<10	0.03	20	0.38	138	<1	<0.01	12	350	10	<10	28	0.06	<10	<10	35	<10	40	--	
87806	3	1.09	0.2	<10	420	<0.5	<2	0.41	<0.5	6	18	12	1.88	<10	0.05	20	0.34	184	<1	<0.01	11	350	12	<10	29	0.04	<10	<10	34	<10	40	--	
87807	2	1.17	0.2	10	520	<0.5	<2	0.48	<0.5	25	22	17	2.46	<10	0.04	20	0.41	2932	2	0.01	21	750	14	<10	36	0.04	<10	<10	43	<10	60	--	
87808	6	1.00	0.2	10	330	<0.5	<2	0.52	<0.5	9	19	20	2.20	<10	0.04	10	0.41	324	<1	<0.01	21	610	9	<10	25	0.04	<10	<10	36	<10	50	--	
87809	14	0.87	0.2	10	370	<0.5	<2	0.65	<0.5	8	18	18	2.05	<10	0.03	10	0.38	425	<1	<0.01	19	780	10	<10	32	0.04	<10	<10	36	<10	50	--	
87810	4	1.36	0.2	10	380	<0.5	<2	0.42	<0.5	10	26	24	2.53	<10	0.04	10	0.44	434	<1	<0.01	22	470	10	<10	27	0.06	<10	<10	48	<10	50	--	
87811	3	1.25	0.2	10	390	<0.5	<2	0.89	<0.5	10	25	26	2.45	<10	0.06	20	0.51	457	<1	<0.02	24	720	8	<10	43	0.06	<10	<10	45	<10	70	--	
87812	2	1.28	0.2	10	370	<0.5	<2	0.54	<0.5	11	29	30	2.58	<10	0.08	20	0.51	401	<1	<0.02	27	740	10	<10	29	0.07	<10	<10	48	<10	60	--	
87813	6	1.05	0.2	10	370	<0.5	<2	0.59	<0.5	10	28	27	2.47	<10	0.06	20	0.51	372	<1	<0.02	27	790	10	<10	31	0.06	<10	<10	46	<10	60	--	
87814	1	1.43	0.2	10	350	<0.5	<2	0.65	<0.5	9	27	19	2.53	<10	0.05	10	0.48	418	<1	<0.02	20	520	8	<10	33	0.07	<10	<10	52	<10	60	--	
87815	3	1.43	0.2	10	320	<0.5	<2	0.52	<0.5	9	27	17	2.51	<10	0.05	20	0.50	364	<1	<0.01	20	660	10	<10	28	0.08	<10	<10	53	<10	60	--	
87816	<1	1.29	0.2	<10	300	<0.5	<2	0.43	<0.5	8	22	15	2.38	<10	0.04	10	0.44	273	<1	<0.01	18	600	8	<10	25	0.06	<10	<10	47	<10	50	--	
87817	2	1.21	0.2	10	350	<0.5	<2	0.46	<0.5	10	24	25	2.50	<10	0.04	20	0.48	365	<1	<0.01	24	750	8	<10	25	0.06	<10	<10	43	<10	60	--	
87818	3	1.15	0.2	10	370	<0.5	<2	0.53	<0.5	9	22	21	2.40	<10	0.04	20	0.45	322	<1	<0.01	22	660	8	<10	26	0.06	<10	<10	42	<10	60	--	
87819	6	1.21	1.2	<10	330	<0.5	<2	0.42	<0.5	7	23	14	2.24	<10	0.04	20	0.43	194	<1	<0.01	17	790	8	<10	24	0.06	<10	<10	43	<10	60	--	
87820	<1	1.05	0.6	<10	330	<0.5	<2	0.42	<0.5	7	16	19	1.94	<10	0.03	10	0.29	235	<1	<0.01	15	810	6	<10	25	0.05	<10	<10	37	<10	40	--	
87821	2	1.05	0.2	<10	210	<0.5	<2	0.29	<0.5	4	18	8	1.47	<10	0.11	30	0.29	110	<1	<0.01	10	480	12	<10	18	0.04	<10	<10	27	<10	50	--	
87822	55	1.19	0.2	<10	370	<0.5	<2	0.31	<0.5	8	18	10	1.61	<10	0.07	30	0.30	380	<1	<0.01	14	570	12	<10	20	0.03	<10	<10	26	<10	50	--	
87830	3	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	nss	--
87833	<1	1.29	0.2	<10	340	<0.5	<2	0.35	<0.5	4	19	14	1.90	<10	0.07	30	0.34	144	<1	<0.01	12	290	18	<10	28	0.05	<10	<10	31	<10	40	--	
87834	<1	1.90	0.2	10	540	<0.5	<2	0.43	<0.5	12	24	27	2.72	<10	0.05	20	0.39	337	<1	<0.01	21	530	16	<10	35	0.05	<10	<10	47	<10	60	--	
87835	2	1.06	0.2	10	320	<0.5	<2	0.28	<0.5	5	20	17	1.89	<10	0.03	30	0.39	154	<1	<0.01	15	410	6	<10	19	0.06	<10	<10	33	<10	40	--	
87836	1	0.96	0.2	<10	190	<0.5	<2	0.21	<0.5	3	17	10	1.64	<10	0.03	60	0.31	96	<1	<0.01	9	330	14	<10	15	0.04	<10	<10	26	<10	30	--	
87837	6	1.15	0.2	<10	240	<0.5	<2	0.20	<0.5	4	16	7	1.97	<10	0.02	20	0.34	158	<1	<0.01	10	310	10	<10	14	0.03	<10	<10	34	<10	40	--	
87838	3	1.03	0.2	<10	230	<0.5	<2	0.30	<0.5	3	14	8	1.58	<10	0.03	20	0.33	134	<1	<0.01	10	460	8	<10	20	0.04	<10	<10	28	<10	40	--	
87839	15	0.90	0.2	<10	180	<0.5	<2	0.28	<0.5	4	15	7	1.47	<10	0.06	20	0.29	110	<1	<0.01	8	400	12	<10	18	0.04	<10	<10	27	<10	40	--	
87840	2	1.35	0.2	<10	200	<0.5	<2	0.24	<0.5	5	21	8	2.02	<10	0.04	20	0.35	157	<1	<0.01	11	360	10	<10	16	0.06	<10	<10	38	<10	40	--	
87841	2	1.09	0.2	<10	170	<0.5	<2	0.26	<0.5	4	16	5	1.57	<10	0.03	10	0.25	112	<1	<0.01	9	410	8	<10	16	0.06	<10	<10	29	<10	40	--	
87842	2	1.28	0.2	<10	200	<0.5	<2	0.30	<0.5	6	20	10	2.10	<10	0.03	20	0.40	142	<1	<0.01	13	490	10	<10	19	0.06	<10	<10	38	<10	40	--	
87843	1	1.54	0.2	<10	350	<0.5	<2	0.52	<0.5	5	21	13	1.93	<10	0.05	20	0.41	140	<1	<0.01	14	590	12	<10	39	0.04	<10	<10	33	<10	60	--	
87844	9	1.37	0.2	10	240	<0.5	<2	0.34	<0.5	5	21	8	1.85	<10	0.04	20	0.45	146	<1	<0.01	12	480	8	<10	23	0.06	<10	<10	34	<10	50	--	
87845	<1	0.87	0.2	10	340	<0.5	<2	0.49	<0.5	9	13	9	1.71	<10	0.02	10	0.30	828	<1	<0.01	9	600	10	<10	34	0.02	<10	<10	27	<10	40	--	
87846	6	1.17	0.2	10	360	<0.5	<2	0.41	<0.5	5	25	7	1.98	<10	0.02	10	0.44	173	<1	<0.01	10	620	8	<10	23	0.03	<10	<10	31	<10	40	--	

Certified by *H. Bentz*



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-Analytical Chemists    -Geochemists    -Registered Assayers

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Telephone: (604) 984-0221  
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Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614176-006-A  
INVOICE # : I8614176  
DATE : 16-JUL-86  
P.O. # : NONE  
P-53

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

COMMENTS :

Bear Creek Soil

Sample description	Au	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn		
	ppb	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm			
87847	<1	0.93	0.2	10	170	<0.5	<2	0.34	<0.5	5	19	6	1.47	<10	0.03	10	0.37	234	<1	<0.01	8	450	6	<10	19	0.04	<10	<10	27	<10	30	--
87848	3	1.10	0.2	10	290	<0.5	<2	0.73	<0.5	7	21	8	1.67	<10	0.03	10	0.43	503	<1	0.01	10	550	6	<10	40	0.03	<10	<10	27	<10	40	--
87849	3	0.98	0.2	10	470	<0.5	<2	1.24	<0.5	15	33	11	1.63	<10	0.07	20	0.30	649	<1	0.01	11	1170	4	<10	74	0.01	<10	<10	18	<10	30	--
87850	2	1.15	0.2	<10	230	<0.5	<2	0.27	<0.5	5	24	18	1.76	<10	0.03	10	0.32	119	<1	0.01	13	390	10	<10	19	0.05	<10	<10	33	<10	40	--
87851	2	1.17	0.2	10	220	<0.5	<2	0.26	<0.5	5	24	9	1.81	<10	0.03	10	0.37	113	<1	0.01	11	460	8	<10	16	0.05	<10	<10	33	<10	40	--
87852	4	1.24	0.2	<10	290	<0.5	<2	0.40	<0.5	6	25	13	1.99	<10	0.03	10	0.40	124	<1	<0.01	13	480	8	<10	28	0.05	<10	<10	34	<10	40	--
87853	2	1.01	0.2	<10	190	<0.5	<2	0.25	<0.5	5	25	9	1.64	<10	0.04	10	0.36	118	<1	<0.01	11	450	6	<10	15	0.03	<10	<10	28	<10	40	--
87854	<1	0.89	0.2	<10	230	<0.5	<2	0.48	<0.5	4	19	10	1.42	<10	0.02	10	0.34	96	<1	<0.01	9	440	8	<10	33	0.03	<10	<10	23	<10	30	--
87855	11	1.11	0.2	<10	240	<0.5	<2	0.42	<0.5	5	24	10	1.80	<10	0.03	10	0.40	115	<1	<0.01	10	440	4	<10	28	0.04	<10	<10	32	<10	30	--
87856	<1	1.41	0.2	<10	280	<0.5	<2	0.37	<0.5	5	25	9	2.19	<10	0.03	10	0.46	135	<1	<0.01	10	430	6	<10	22	0.05	<10	<10	38	<10	40	--
87857	<1	1.75	0.2	10	470	<0.5	<2	0.62	<0.5	7	30	19	2.34	<10	0.07	20	0.48	242	<1	0.01	15	410	10	<10	42	0.05	<10	<10	42	<10	50	--
87858	3	1.27	0.2	10	410	<0.5	<2	0.63	<0.5	7	24	13	2.19	<10	0.03	20	0.42	322	<1	<0.01	13	570	8	<10	45	0.04	<10	<10	34	<10	40	--
87859	1	1.29	0.2	10	230	<0.5	<2	0.45	<0.5	5	29	11	1.92	<10	0.04	20	0.41	151	<1	0.01	13	490	10	<10	31	0.06	<10	<10	35	<10	40	--
87860	<1	1.25	0.2	10	230	<0.5	<2	0.32	<0.5	6	30	13	2.02	<10	0.04	10	0.44	149	<1	<0.01	13	450	8	<10	22	0.05	<10	<10	36	<10	40	--
87861	14	1.04	0.2	10	230	<0.5	<2	0.26	<0.5	4	25	10	1.80	<10	0.03	10	0.34	106	<1	0.01	10	490	6	<10	25	0.03	<10	<10	31	<10	30	--
87862	9	1.14	0.2	10	290	<0.5	<2	0.37	<0.5	7	25	17	2.16	<10	0.05	10	0.38	302	<1	<0.01	14	450	8	<10	24	0.04	<10	<10	36	<10	40	--
87863	<1	1.25	0.2	10	240	<0.5	<2	0.27	<0.5	5	25	18	2.21	<10	0.12	10	0.37	177	<1	<0.01	14	500	6	<10	19	0.03	<10	<10	31	<10	60	--
87864	<1	0.94	0.2	10	230	<0.5	<2	0.12	<0.5	3	18	13	1.67	<10	0.15	10	0.15	87	<1	<0.01	9	270	16	<10	11	0.02	<10	<10	29	<10	30	--
87865	<1	1.37	0.2	10	260	<0.5	<2	0.27	<0.5	7	23	15	2.11	<10	0.16	10	0.33	345	<1	<0.01	12	480	8	<10	21	0.02	<10	<10	32	<10	60	--
87866	<1	1.31	0.2	<10	360	<0.5	<2	0.49	<0.5	6	25	9	1.80	<10	0.10	20	0.32	169	<1	0.01	12	280	12	<10	47	0.04	<10	<10	33	<10	40	--
87867	<1	0.96	0.2	<10	270	<0.5	<2	0.30	<0.5	3	15	6	1.29	<10	0.08	20	0.24	84	<1	<0.01	8	380	6	<10	24	0.04	<10	<10	24	<10	30	--
87868	<1	1.01	0.2	<10	200	<0.5	<2	0.30	<0.5	4	16	7	1.65	<10	0.05	20	0.27	108	<1	<0.01	9	450	8	<10	21	0.04	<10	<10	34	<10	30	--
87869	2	1.14	0.2	<10	300	<0.5	<2	0.43	<0.5	8	19	11	2.00	<10	0.03	10	0.37	319	<1	<0.01	14	620	4	<10	27	0.05	<10	<10	38	<10	50	--
88400	2	0.98	0.2	10	330	<0.5	<2	0.76	<0.5	8	23	18	1.97	<10	0.07	20	0.42	249	<1	0.01	20	670	8	<10	44	0.04	<10	<10	33	<10	60	--
88401	1	1.17	0.2	10	350	<0.5	<2	0.67	<0.5	8	27	19	2.24	<10	0.08	20	0.44	312	<1	0.01	21	580	8	<10	33	0.06	<10	<10	42	<10	60	--
88402	2	1.14	0.6	10	350	<0.5	<2	0.75	<0.5	9	26	21	2.28	<10	0.08	20	0.47	362	<1	0.01	22	730	10	<10	34	0.05	<10	<10	40	<10	70	--
88403	2	1.18	0.2	10	380	<0.5	<2	1.03	<0.5	9	28	21	2.15	<10	0.08	20	0.45	363	<1	0.01	22	750	8	<10	44	0.05	<10	<10	40	<10	60	--
88404	4	1.23	0.2	10	420	<0.5	<2	0.69	<0.5	8	26	23	2.38	<10	0.06	20	0.44	310	<1	0.01	22	750	6	<10	35	0.05	<10	<10	42	<10	60	--
88405	1	1.39	0.2	10	390	<0.5	<2	0.68	<0.5	10	32	24	2.57	<10	0.07	20	0.50	370	<1	0.02	23	790	8	<10	36	0.08	<10	<10	50	<10	60	--
88406	2	1.01	0.2	10	380	<0.5	<2	0.41	<0.5	10	20	16	2.28	<10	0.02	10	0.42	394	<1	0.01	19	650	8	<10	24	0.04	<10	<10	35	<10	50	--
88407	5	1.03	0.4	10	390	<0.5	<2	0.46	<0.5	9	21	21	2.23	<10	0.04	10	0.39	398	<1	0.01	20	620	10	<10	23	0.03	<10	<10	36	<10	50	--
88408	4	1.19	0.2	10	400	<0.5	<2	0.51	<0.5	11	28	35	2.60	<10	0.05	20	0.51	493	<1	0.01	32	780	6	<10	26	0.06	<10	<10	43	<10	60	--
88409	3	1.27	0.2	10	420	<0.5	<2	0.47	<0.5	12	27	16	2.40	<10	0.05	20	0.45	556	<1	0.01	18	720	8	<10	28	0.05	<10	<10	45	<10	60	--
88410	5	1.70	0.4	<10	770	<0.5	<2	0.57	<0.5	9	31	26	2.61	<10	0.07	30	0.41	470	<1	0.01	20	440	14	<10	53	0.05	<10	<10	45	<10	50	--
88411	4	1.43	0.2	<10	430	<0.5	<2	0.29	<0.5	7	27	20	2.31	<10	0.08	20	0.42	233	<1	0.01	18	450	10	<10	28	0.06	<10	<10	41	<10	50	--
88412	8	1.36	0.2	<10	400	<0.5	<2	0.38	<0.5	8	30	24	2.52	<10	0.08	20	0.46	285	<1	0.01	20	600	8	<10	29	0.07	<10	<10	45	<10	60	--
88413	4	1.39	0.2	<10	300	<0.5	<2	0.19	<0.5	6	26	15	2.16	<10	0.08	20	0.35	156	<1	<0.01	14	210	8	<10	17	0.06	<10	<10	41	<10	40	--
88414	2	1.03	0.2	<10	360	<0.5	<2	0.17	<0.5	5	20	14	1.78	<10	0.06	20	0.31	137	<1	<0.01	11	190	10	<10	15	0.05	<10	<10	33	<10	30	--
88415	6	1.12	0.2	<10	470	<0.5	<2	0.16	<0.5	5	19	13	1.88	<10	0.05	20	0.33	120	<1	<0.01	10	280	12	<10	12	0.03	<10	<10	29	<10	40	--
88416	<1	1.12	0.2	<10	360	<0.5	<2	0.18	<0.5	5	16	12	1.53	<10	0.06	20	0.35	108	<1	<0.01	10	290	14	<10	13	0.04	<10	<10	26	<10	30	--

Certified by *Stuart Beckler*



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Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614176-007-A  
INVOICE # : I8614176  
DATE : 16-JUL-86  
P.O. # : NONE  
P-53

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

COMMENTS :

### Bear Creek Soil

Sample description	Au	HAA	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	
88417	3	1.19	0.2	<10	260	<0.5	<2	0.16	<0.5	5	19	13	1.60	<10	0.09	20	0.30	112	<1	<0.01	10	280	26	<10	12	0.05	<10	<10	29	<10	40	--
88418	2	1.52	0.2	<10	270	<0.5	<2	0.08	<0.5	6	23	11	2.31	<10	0.04	10	0.33	171	<1	<0.01	12	150	14	<10	9	0.04	<10	<10	40	<10	40	--
88419	3	1.88	0.2	<10	260	<0.5	<2	0.15	<0.5	7	33	24	2.68	<10	0.05	10	0.46	224	<1	<0.01	19	140	10	<10	14	0.07	<10	<10	52	<10	50	--
88420	1	1.86	0.2	<10	220	<0.5	<2	0.10	<0.5	6	27	11	2.55	<10	0.04	10	0.41	177	<1	<0.01	12	150	12	<10	10	0.05	<10	<10	50	<10	40	--
88421	<1	1.20	0.2	<10	170	<0.5	<2	0.07	<0.5	4	15	9	1.72	<10	0.01	10	0.32	124	<1	<0.01	9	90	9	<10	9	0.04	<10	<10	31	<10	30	--
88422	<1	1.05	0.2	<10	210	<0.5	<2	0.08	<0.5	4	15	10	1.80	<10	0.02	10	0.30	113	<1	<0.01	10	90	12	<10	8	0.04	<10	<10	34	<10	30	--
88423	4	1.13	0.2	<10	270	<0.5	<2	0.09	<0.5	5	23	16	1.93	<10	0.02	10	0.33	146	<1	<0.01	13	100	10	<10	9	0.03	<10	<10	33	<10	30	--
88424	3	1.19	0.2	10	250	<0.5	<2	0.09	<0.5	6	23	14	1.95	<10	0.02	10	0.35	156	<1	<0.01	12	80	8	<10	10	0.04	<10	<10	34	<10	30	--
88425	158	1.54	0.2	<10	270	<0.5	<2	0.13	<0.5	6	25	13	2.33	<10	0.03	10	0.39	164	<1	<0.01	14	160	12	<10	13	0.04	<10	<10	44	<10	40	--
88426	<1	1.19	0.2	<10	170	<0.5	<2	0.12	<0.5	5	13	7	1.69	<10	0.04	10	0.40	135	<1	<0.01	8	210	8	<10	12	0.03	<10	<10	31	<10	30	--
88427	<1	1.14	0.2	<10	210	<0.5	<2	0.22	<0.5	4	14	8	1.30	<10	0.05	20	0.48	90	<1	<0.01	8	220	14	<10	19	0.04	<10	<10	22	<10	40	--
88428	150	1.40	0.2	<10	310	<0.5	<2	0.31	<0.5	7	23	13	1.93	<10	0.06	20	0.42	359	<1	0.01	13	390	8	<10	26	0.06	<10	<10	37	<10	40	--
88429	2	1.22	0.2	10	260	<0.5	<2	0.25	<0.5	5	22	11	1.80	<10	0.06	20	0.37	148	<1	<0.01	11	240	10	<10	20	0.05	<10	<10	34	<10	40	--
88430	<1	0.80	0.2	<10	180	<0.5	<2	0.13	<0.5	2	13	6	1.29	<10	0.07	40	0.20	131	<1	<0.01	6	200	18	<10	11	0.03	<10	<10	22	<10	20	--
88431	<1	0.61	0.2	<10	290	<0.5	<2	0.22	<0.5	2	11	4	1.19	10	0.06	60	0.13	52	<1	<0.01	4	130	20	<10	19	0.01	10	<10	12	<10	20	--
88432	<1	0.74	0.2	<10	340	<0.5	<2	0.19	<0.5	2	11	5	1.17	<10	0.11	30	0.17	106	<1	<0.01	7	160	18	<10	20	0.02	<10	<10	19	<10	20	--
88433	11	0.85	0.2	<10	370	<0.5	<2	0.25	<0.5	2	16	7	1.26	10	0.09	50	0.19	37	<1	<0.01	6	120	20	<10	20	0.02	10	<10	18	<10	20	--
88435	2	0.79	0.2	<10	560	<0.5	<2	0.33	<0.5	2	14	6	1.02	10	0.10	70	0.23	66	<1	<0.01	6	370	16	<10	29	0.01	10	<10	13	<10	20	--
88436	1	1.41	0.2	10	520	<0.5	<2	0.62	<0.5	12	21	20	2.12	<10	0.07	20	0.40	1052	<1	<0.01	22	620	12	<10	49	0.04	<10	<10	34	<10	60	--
88437	<1	1.44	0.2	10	360	<0.5	<2	0.33	<0.5	5	20	9	1.70	<10	0.10	20	0.33	154	<1	<0.01	10	420	12	<10	25	0.04	<10	<10	28	<10	40	--
88438	9	1.40	0.2	20	450	<0.5	<2	0.26	<0.5	6	19	15	2.00	<10	0.09	30	0.28	153	<1	<0.01	13	610	18	<10	23	0.03	<10	<10	30	<10	50	--
88441	5	0.93	0.2	<10	460	<0.5	<2	0.21	<0.5	2	9	6	1.24	<10	0.15	30	0.19	119	<1	<0.01	5	170	16	<10	17	0.02	<10	<10	21	<10	20	--
88442	<1	1.07	0.2	<10	360	<0.5	<2	0.32	<0.5	4	52	8	1.64	<10	0.08	20	0.33	141	<1	<0.01	24	370	12	<10	21	0.05	<10	<10	29	<10	30	--
88443	3	1.32	0.2	<10	490	<0.5	<2	0.39	<0.5	6	29	14	1.73	10	0.09	30	0.35	252	<1	0.01	16	310	16	<10	28	0.05	<10	<10	30	<10	40	--
88444	3	1.43	0.2	<10	480	<0.5	<2	0.40	<0.5	5	21	12	1.86	10	0.12	30	0.37	193	<1	0.01	12	320	18	<10	30	0.04	<10	<10	30	<10	40	--
88445	<1	1.36	0.2	10	380	<0.5	<2	0.30	<0.5	6	22	11	1.97	<10	0.11	20	0.42	174	<1	0.01	12	350	14	<10	21	0.05	<10	<10	33	<10	40	--
88446	<1	1.54	0.2	10	350	<0.5	<2	0.22	<0.5	5	21	12	2.04	<10	0.10	20	0.55	146	<1	0.01	12	170	20	<10	17	0.04	<10	<10	30	<10	40	--
88447	<1	1.02	0.2	<10	310	<0.5	<2	0.15	<0.5	4	16	7	1.57	<10	0.15	10	0.23	101	<1	<0.01	8	100	14	<10	15	0.03	<10	<10	24	<10	20	--
88448	2	1.41	0.2	10	270	<0.5	<2	0.13	<0.5	5	45	9	2.09	<10	0.11	20	0.30	154	1	<0.01	20	110	14	<10	12	0.05	<10	<10	38	<10	30	--
88449	2	1.19	0.2	10	240	<0.5	<2	0.27	<0.5	5	27	9	2.04	<10	0.06	20	0.37	163	<1	<0.01	14	450	12	<10	18	0.07	<10	<10	41	<10	40	--
88450	2	1.22	0.2	10	330	<0.5	<2	0.30	<0.5	5	23	9	1.86	<10	0.06	20	0.38	154	<1	0.01	11	270	14	<10	22	0.07	<10	<10	38	<10	30	--
88451	<1	0.93	0.2	10	340	<0.5	<2	0.23	<0.5	7	15	7	1.35	<10	0.08	60	0.26	374	<1	<0.01	6	520	26	<10	20	0.03	10	<10	22	<10	30	--
88452	3	1.43	0.4	10	500	<0.5	<2	0.88	<0.5	9	29	20	2.28	10	0.10	20	0.45	474	<1	0.01	20	700	16	<10	62	0.07	<10	<10	46	<10	60	--
88453	3	1.33	0.2	10	380	<0.5	<2	0.61	<0.5	7	28	15	2.22	10	0.10	20	0.42	334	<1	0.01	16	640	12	<10	40	0.08	<10	<10	47	<10	60	--
88454	<1	1.60	0.2	10	460	<0.5	<2	0.60	<0.5	9	31	17	2.46	10	0.08	30	0.46	375	<1	0.01	18	610	14	<10	41	0.10	<10	<10	53	<10	60	--
88455	2	1.47	0.2	10	440	<0.5	<2	0.52	<0.5	8	27	17	2.21	<10	0.08	20	0.40	408	<1	0.01	16	580	10	<10	38	0.09	<10	<10	46	<10	60	--
88456	2	1.22	0.2	10	420	<0.5	<2	0.48	<0.5	7	21	12	1.92	<10	0.08	20	0.35	362	<1	0.01	13	510	14	<10	36	0.06	<10	<10	37	<10	40	--
88457	3	1.48	0.2	10	450	<0.5	<2	0.44	<0.5	7	43	16	2.05	<10	0.07	20	0.38	374	<1	0.01	22	340	14	<10	33	0.07	<10	<10	41	<10	50	--
88458	<1	1.32	0.2	<10	440	<0.5	<2	0.41	<0.5	6	27	13	1.99	<10	0.07	20	0.36	224	<1	0.01	16	460	10	<10	30	0.07	<10	<10	40	<10	50	--
88459	<1	1.36	0.2	<10	330	<0.5	<2	0.34	<0.5	5	27	10	2.09	<10	0.08	20	0.38	160	<1	0.01	14	330	8	<10	25	0.08	<10	<10	43	<10	40	--

Certified by *H. B. Bickler*



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Semi quantitative multi element ICP analysis

## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8614176-008-A  
INVOICE # : I8614176  
DATE : 16-JUL-86  
P.O. # : NONE  
P-53

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

COMMENTS :

Bear Creek Soil

Sample description	Au NAA ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	
88460	2	1.44	0.2	<10	440	<0.5	<2	0.44	<0.5	7	24	13	2.09	<10	0.07	20	0.40	237	<1	0.02	15	410	10	<10	32	0.07	<10	<10	40	<10	40	--
88461	9	1.52	0.2	<10	540	<0.5	<2	0.50	<0.5	8	26	21	2.27	<10	0.09	30	0.35	574	<1	0.01	17	520	10	<10	37	0.07	<10	<10	43	<10	40	--
88462	<1	1.26	0.2	<10	430	<0.5	<2	0.30	<0.5	5	20	15	1.94	<10	0.14	20	0.27	226	<1	0.01	12	300	12	<10	23	0.05	<10	<10	36	<10	40	--
88463	7	1.37	0.6	<10	570	<0.5	<2	0.33	<0.5	6	24	15	1.90	<10	0.13	30	0.33	314	<1	0.01	13	370	14	<10	27	0.05	<10	<10	36	<10	40	--
88464	5	1.65	0.2	<10	290	<0.5	<2	0.16	<0.5	6	29	16	2.30	<10	0.07	20	0.35	139	<1	0.01	14	180	14	<10	15	0.08	<10	<10	45	<10	40	--
88465	<1	1.36	0.2	<10	250	<0.5	<2	0.14	<0.5	5	24	11	1.93	<10	0.06	10	0.29	151	<1	0.06	11	130	12	<10	12	0.06	<10	<10	41	<10	30	--
88466	3	1.54	0.2	<10	190	<0.5	<2	0.12	<0.5	5	24	12	2.03	<10	0.04	20	0.42	126	<1	0.01	12	100	18	<10	11	0.06	<10	<10	37	<10	40	--
88467	<1	1.58	0.2	<10	130	<0.5	<2	0.13	<0.5	4	24	8	2.31	<10	0.05	10	0.28	121	<1	0.01	9	180	10	<10	13	0.08	<10	<10	51	<10	30	--
88468	3	1.51	0.2	<10	340	<0.5	<2	0.18	<0.5	5	24	13	2.02	<10	0.06	20	0.40	134	<1	0.01	14	220	10	<10	15	0.06	<10	<10	33	<10	40	--
88469	2	1.09	0.4	<10	230	<0.5	<2	0.09	<0.5	4	15	17	1.85	<10	0.07	30	0.21	102	<1	0.01	9	190	10	<10	8	0.02	<10	<10	20	<10	40	--
88470	<1	0.96	0.2	<10	280	<0.5	<2	0.12	<0.5	3	15	7	1.52	<10	0.09	10	0.23	99	<1	0.01	7	120	12	<10	12	0.04	<10	<10	29	<10	20	--
88471	<1	0.56	0.2	<10	200	<0.5	<2	0.08	<0.5	1	5	3	0.76	<10	0.09	30	0.07	52	<1	0.01	2	200	4	<10	9	0.02	<10	<10	16	<10	10	--
88472	1	1.35	0.2	<10	200	<0.5	2	0.10	<0.5	3	6	7	1.25	<10	0.04	20	0.77	93	<1	0.01	6	130	14	<10	11	0.01	<10	<10	12	<10	40	--
88473	<1	1.41	0.2	<10	250	<0.5	<2	0.08	<0.5	5	18	10	2.10	<10	0.02	10	0.28	156	<1	0.01	11	100	12	<10	8	0.05	<10	<10	42	<10	30	--
88474	1	0.99	0.2	<10	180	<0.5	<2	0.08	<0.5	3	10	7	1.24	<10	0.02	<10	0.23	87	<1	0.01	7	60	3	<10	10	0.02	<10	<10	21	<10	30	--
88475	<1	1.31	0.2	<10	190	<0.5	<2	0.11	<0.5	3	11	6	1.42	<10	0.03	10	0.51	106	<1	0.01	7	80	12	<10	13	0.04	<10	<10	23	<10	40	--
88476	<1	1.57	0.2	<10	240	<0.5	<2	0.14	<0.5	5	23	14	1.98	<10	0.02	10	0.45	142	<1	0.01	13	100	8	<10	12	0.05	<10	<10	35	<10	40	--
88477	49	1.54	0.2	<10	300	<0.5	<2	0.21	<0.5	6	27	16	2.13	<10	0.04	20	0.50	181	<1	0.01	15	180	8	<10	18	0.06	<10	<10	36	<10	40	--
88478	4	1.36	0.6	<10	680	<0.5	<2	0.57	<0.5	5	19	17	1.52	<10	0.04	40	0.38	143	<1	0.01	11	330	18	<10	55	0.04	<10	<10	27	<10	30	--
88479	<1	1.35	0.2	<10	180	<0.5	<2	0.21	<0.5	4	15	8	1.40	<10	0.05	10	0.57	96	<1	0.01	8	110	10	<10	23	0.05	<10	<10	23	<10	40	--
88480	2	0.89	0.2	<10	230	<0.5	<2	0.16	<0.5	2	8	6	1.00	<10	0.06	20	0.19	65	<1	0.01	5	120	8	<10	21	0.02	<10	<10	14	<10	20	--
88481	<1	1.30	0.2	<10	310	<0.5	<2	0.27	<0.5	5	20	9	1.99	<10	0.08	20	0.36	180	<1	0.01	11	410	8	<10	23	0.06	<10	<10	39	<10	40	--
88482	<1	1.23	0.2	<10	430	<0.5	<2	0.19	<0.5	6	14	7	1.58	<10	0.06	20	0.25	550	<1	0.01	9	320	16	<10	17	0.03	<10	<10	25	<10	40	--
88483	<1	1.17	0.2	<10	340	<0.5	<2	0.16	<0.5	4	18	7	1.68	<10	0.10	50	0.27	191	<1	0.01	8	190	24	<10	15	0.04	<10	<10	30	<10	40	--
88484	124	1.06	0.2	<10	360	<0.5	<2	0.20	<0.5	3	17	7	1.54	10	0.11	60	0.23	144	<1	0.01	8	150	26	<10	16	0.03	<10	<10	27	<10	30	--
88485	<1	0.55	0.2	<10	140	<0.5	<2	0.08	<0.5	1	2	4	0.86	<10	0.06	40	0.15	38	<1	0.01	1	70	18	<10	8	0.01	<10	<10	5	<10	20	--
88486	8	0.58	0.2	<10	300	<0.5	<2	0.23	<0.5	3	10	6	0.96	10	0.10	50	0.23	153	<1	0.01	5	310	22	<10	39	0.01	10	<10	9	<10	30	--
88487	1	1.37	0.2	<10	500	<0.5	<2	0.50	<0.5	7	17	11	1.60	10	0.13	40	0.35	385	<1	0.01	9	340	26	<10	39	0.03	<10	<10	23	<10	40	--
88488	<1	1.25	0.4	<10	620	<0.5	<2	0.66	<0.5	5	21	12	1.67	10	0.14	40	0.36	259	<1	0.01	10	450	20	<10	56	0.03	<10	<10	25	<10	50	--
88500	167	1.06	0.2	<10	290	<0.5	<2	0.26	<0.5	3	18	6	1.38	<10	0.10	30	0.29	103	<1	0.01	6	310	14	<10	21	0.03	<10	<10	23	<10	30	--

Certified by

*Hart Bickler*



REPORT: 426-2605

PROJECT: NONE GIVEN PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU OPT	AG OPT	CU PCT	PB PCT	ZN PCT	AS PCT	SB PCT	CR PCT
R2 13001		0.002					1.10	9.50	
R2 13002		0.002							
R2 13003		0.006	0.02	<0.01	0.01	0.04			
R2 13004		0.003	0.02	<0.01	0.01	0.01			
R2 13005		<0.002	<0.02	<0.01	<0.01	<0.01			
R2 13007		<0.002	<0.02	<0.01	<0.01	<0.01			
R2 13008		<0.002	<0.02	<0.01	<0.01	<0.01			
R2 13009		<0.002	<0.02	<0.01	<0.01	<0.01			
R2 13010		<0.002	0.02	<0.01	<0.01	<0.01			
R2 13011		<0.002	0.02	<0.01	<0.01	<0.01			
R2 13012		<0.002	<0.02	<0.01	0.01	<0.01			
R2 13013		<0.002							
R2 13014		<0.002							
R2 13015		0.002							
R2 13016		0.002							
R2 13017		<0.002	<0.02	0.06	<0.01	0.10			
R2 13018		0.002							
R2 13019		<0.002	<0.02		<0.01	<0.01			
R2 13020		<0.002	<0.02		<0.01	<0.01			
R2 13021		<0.002	<0.02		<0.01	<0.01			
R2 13022		<0.002	<0.02		<0.01	<0.01			
R2 13023		<0.002	<0.02		<0.01	<0.01			
R2 13024		<0.002	<0.02		<0.01	<0.01			
R2 13025		<0.002	<0.02		<0.01	<0.01			

Silver City  
Stop # 4  
0.17 Ben heavy  
0.18 Stop # 60  
R15 line 3, BLO

Bear Creek

Sulphur

Bear Creek

R15



# Chemex Labs Ltd.

-Analytical Chemists -Geochemists -Registered Assayers

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## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8616253-003-A  
INVOICE # : I8616253  
DATE : 24-AUG-86  
P.O. # : NONE  
BEAR-P53  
Bear Creek Trench

Semi quantitative multi element ICP analysis.

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

COMMENTS :

Sample description	Au NAA	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Ti	Tl	U	V	W	Zn
	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
12545	0.50	0.2	110	200	0.5	0.17	0.5	1	79	1	0.44	110	0.14	10	0.16	48	1	0.01	1	40	10	110	36	0.01	110	110	1	110	10	--
12546	0.36	0.2	110	250	0.5	0.29	0.5	1	141	1	0.36	110	0.20	30	0.06	62	1	0.01	12	30	16	110	22	0.01	110	110	1	110	9	--
12547	0.40	0.2	110	240	0.5	0.09	0.5	1	142	3	0.13	110	0.22	40	0.05	105	1	0.01	3	40	20	110	5	0.01	110	110	1	110	5	--
12548	0.64	0.2	110	20	0.5	0.01	0.5	1	01	2	0.25	110	0.04	110	0.01	10	1	0.01	1	10	9	110	1	0.01	10	110	1	110	12	--
12549	0.27	0.2	110	130	0.5	0.34	0.5	1	38	2	0.47	110	0.10	40	0.04	90	1	0.01	1	40	18	110	5	0.01	110	110	1	110	12	--
12550	0.30	0.2	110	130	0.5	0.04	0.5	1	36	2	0.45	110	0.20	40	0.02	83	1	0.01	1	40	19	110	9	0.01	110	110	1	110	6	--
12551	0.40	0.2	110	230	0.5	0.05	0.5	1	111	1	0.46	110	0.28	40	0.03	93	1	0.01	2	40	14	110	12	0.01	110	110	1	110	5	--
12552	0.49	0.2	110	350	0.5	0.07	0.5	1	121	1	0.65	110	0.30	30	0.06	96	1	0.01	2	40	16	110	14	0.01	110	110	1	110	10	--
12553	0.55	0.2	110	270	0.5	0.20	0.5	1	146	1	0.50	110	0.22	30	0.06	72	1	0.01	2	30	12	110	25	0.01	110	110	1	110	9	--
12554	0.45	0.2	110	250	0.5	0.10	0.5	1	130	1	0.44	110	0.19	30	0.07	68	1	0.01	2	30	12	110	19	0.01	110	110	1	110	10	--
12555	0.40	0.2	110	250	0.5	0.35	0.5	1	139	2	0.50	110	0.21	30	0.07	72	1	0.01	2	30	14	110	7	0.01	110	110	1	110	13	--
12556	0.24	0.2	110	220	0.5	0.02	0.5	1	95	1	0.28	110	0.19	30	0.04	70	1	0.01	1	40	16	110	4	0.01	110	110	1	110	6	--
12557	0.59	0.2	110	420	0.5	0.05	0.5	1	205	4	0.66	110	0.32	30	0.16	90	1	0.01	4	70	20	110	7	0.01	110	110	1	110	9	--
12558	0.28	0.2	110	170	0.5	0.03	0.5	1	112	1	0.47	110	0.31	30	0.01	61	1	0.01	2	50	16	110	8	0.01	110	110	1	110	9	--
12559	0.28	0.2	110	160	0.5	0.07	0.5	1	226	1	0.79	110	0.24	30	0.05	129	1	0.01	1	50	20	110	11	0.01	110	110	1	110	12	--
12560	0.51	0.2	110	310	0.5	0.09	0.5	1	191	1	0.58	110	0.35	20	0.05	108	1	0.01	2	30	14	110	19	0.01	110	110	1	110	8	--
12561	0.48	0.2	110	290	0.5	0.16	0.5	1	228	2	0.61	110	0.24	30	0.05	95	2	0.01	1	40	20	110	25	0.01	110	110	1	110	5	--
12562	0.42	0.2	110	3250	0.5	0.11	0.5	1	200	1	0.49	110	0.23	30	0.07	79	1	0.01	4	50	14	110	100	0.01	110	110	1	110	9	--
12563	0.52	0.2	110	2060	0.5	0.14	0.5	1	95	1	0.51	110	0.25	40	0.12	36	1	0.01	2	60	18	110	63	0.01	110	110	1	110	16	--
12564	1.02	0.2	110	260	0.5	0.04	0.5	1	156	1	0.98	110	0.31	60	0.60	147	1	0.01	2	50	20	110	17	0.01	110	110	1	110	44	--
12565	0.85	0.2	110	130	0.5	0.19	0.5	1	80	2	0.21	110	0.09	60	0.38	117	1	0.01	2	50	22	110	44	0.01	110	110	1	110	26	--
12566	0.62	0.2	110	250	0.5	0.02	0.5	1	164	2	0.21	110	0.22	50	0.25	136	1	0.01	4	70	22	110	71	0.01	110	110	1	110	24	--
12567	0.29	0.2	110	190	0.5	0.03	0.5	1	139	2	0.52	110	0.20	50	0.09	119	1	0.01	2	60	20	110	35	0.01	110	110	1	110	16	--
12568	0.02	0.2	110	110	0.5	0.02	0.5	1	9	2	0.02	110	0.02	18	0.01	3	1	0.01	1	10	4	110	1	0.01	10	110	1	110	2	--
12569	0.60	0.2	110	190	0.5	0.27	0.5	1	212	1	0.61	110	0.17	20	0.36	76	1	0.01	4	50	12	110	26	0.01	110	110	1	110	30	--
12570	0.29	0.2	110	100	0.5	0.25	0.5	1	28	1	0.31	110	0.05	20	0.19	49	1	0.01	1	40	12	110	21	0.01	110	110	1	110	16	--
12571	0.54	0.2	110	350	0.5	0.43	0.5	1	220	1	0.54	110	0.31	20	0.22	70	1	0.01	4	50	14	110	44	0.01	110	110	1	110	20	--
12572	0.56	0.2	110	170	0.5	0.55	0.5	1	102	1	0.55	110	0.15	40	0.21	96	1	0.01	2	50	14	110	75	0.01	110	110	1	110	24	--
12573	0.86	0.2	110	250	0.5	1.07	0.5	4	164	6	1.14	110	0.17	20	0.22	176	1	0.01	6	310	16	110	58	0.01	110	110	3	110	38	--
12574	1.00	0.2	110	290	0.5	1.70	0.5	4	169	9	1.10	110	0.20	20	0.29	207	1	0.01	7	340	14	110	95	0.01	110	110	7	110	38	--
12575	0.74	0.2	110	220	0.5	1.61	0.5	3	143	7	0.96	110	0.17	20	0.26	187	1	0.01	7	340	14	110	93	0.01	110	110	7	110	34	--

Certified by *Hart Bichler*



# Chemex Labs Ltd.

Analytical Chemists    Geochemists    Registered Assayers

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Telex: 043-52597

Semi quantitative multi element ICP analysis

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

## CERTIFICATE OF ANALYSIS

TO : UNITED KEND HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A3617170-001-A  
INVOICE # : 10617170  
DATE : 16-SEP-88  
C.O. # : NONE  
BEAR CREEK  
*Bear Creek Trench*

COMMENTS :

Sample description	Au NAA	Ag	As	Ba	Be	Bi	Ca	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Se	Ti	Tl	U	V	W	Zn			
	ppb	%	ppb	ppb	ppb	ppb	%	ppb	ppb	ppb	%	ppb	%	ppb	%	ppb	ppb	%	ppb	ppb	ppb	ppb	%	ppb	ppb	ppb	ppb	ppb	ppb			
12576	15	1.05	0.2	10	310	0.5	0.2	1.52	0.5	5	101	7	1.20	19	0.18	40	0.37	202	1	0.01	5	220	34	110	117	0.01	110	110	7	110	46	--
12577	11	1.92	0.2	10	170	0.5	0.2	1.31	0.5	3	156	4	1.21	10	0.39	23	0.65	177	1	0.02	5	200	18	110	138	0.01	110	110	9	110	44	--
12578	123	1.34	0.2	10	353	0.5	0.2	1.39	0.5	5	123	11	1.35	11	0.29	20	0.37	211	1	0.01	5	200	20	10	120	0.01	110	110	3	110	52	--
12579	10	1.05	0.2	10	353	0.5	0.2	1.54	0.5	4	139	11	1.12	13	0.17	20	0.37	170	1	0.02	5	200	22	10	114	0.01	110	110	3	110	22	--
12580	1	1.59	0.2	10	220	0.5	0.2	0.92	0.5	6	129	7	1.74	10	0.12	20	0.22	256	1	0.01	4	270	14	10	97	0.01	110	110	10	110	52	--
12581	14	0.96	0.2	10	290	0.5	0.2	1.24	0.5	3	128	9	1.91	10	0.16	20	0.52	185	1	0.01	4	290	18	110	92	0.01	110	110	7	110	22	--
12582	99	1.16	0.2	110	360	0.5	0.2	1.28	0.5	4	125	6	1.33	10	0.19	20	0.67	191	1	0.01	4	240	20	10	35	0.01	110	110	6	110	44	--
12583	1	1.12	0.2	10	270	0.5	0.2	0.96	0.5	4	105	5	1.33	110	0.14	20	0.76	164	1	0.01	5	340	18	110	83	0.01	110	110	6	110	48	--
12584	1	0.54	0.2	10	250	0.5	0.2	0.74	0.5	3	112	5	1.61	10	0.24	20	0.22	91	1	0.01	1	260	12	10	77	0.01	110	110	4	110	22	--
12585	1	0.27	0.2	10	150	0.5	0.2	0.12	0.5	1	114	3	0.21	10	0.26	20	0.12	35	1	0.02	3	220	18	10	12	0.01	110	110	2	110	4	--
12586	1	0.26	0.2	10	170	0.5	0.2	0.19	0.5	1	117	4	0.39	10	0.21	20	0.12	48	1	0.02	3	260	14	10	11	0.01	110	110	2	110	2	--
12587	1	0.80	0.2	10	420	0.5	0.2	0.99	0.5	3	124	11	1.00	10	0.31	40	0.28	186	1	0.01	3	390	12	110	41	0.01	110	110	6	110	22	--
12588	1	1.02	0.2	10	320	0.5	0.2	1.12	0.5	3	162	11	1.22	20	0.27	20	0.51	246	1	0.01	4	290	22	110	175	0.01	110	110	8	110	22	--
12589	1	1.14	0.2	10	420	0.5	0.2	0.22	0.5	5	222	16	1.26	20	0.27	20	0.55	262	1	0.01	7	270	22	110	159	0.01	110	110	9	110	46	--
12590	1	0.37	0.2	10	340	0.5	0.2	1.86	0.5	1	125	11	1.25	10	0.24	20	0.29	242	1	0.01	1	260	25	10	125	0.01	110	110	3	110	40	--
12591	1	0.76	0.2	10	190	0.5	0.2	1.64	0.5	4	77	10	1.14	10	0.17	20	0.18	257	2	0.01	3	250	19	110	126	0.01	110	110	7	110	46	--
12592	1	0.66	0.2	10	250	0.5	0.2	0.88	0.5	2	141	2	0.86	10	0.12	20	0.25	112	1	0.02	3	250	12	10	63	0.01	110	110	5	110	12	--
12593	1	0.66	0.2	110	330	0.5	0.2	0.32	0.5	3	156	15	0.74	10	0.27	20	0.19	90	1	0.01	4	360	25	110	26	0.01	110	110	6	110	14	--
12594	2	1.19	0.2	10	290	0.5	0.2	0.35	0.5	5	99	9	1.22	110	0.14	20	1.20	157	1	0.01	5	370	16	110	35	0.01	110	110	5	110	48	--
12595	1	0.97	0.2	10	490	0.5	0.2	0.32	0.5	6	152	19	1.09	10	0.28	40	0.49	141	1	0.01	6	470	12	110	60	0.01	110	110	5	110	44	--
12596	1	0.27	0.2	10	353	0.5	0.2	1.17	0.5	1	74	5	0.31	10	0.22	20	0.37	48	1	0.01	2	340	3	110	20	0.01	110	110	3	110	6	--
12597	1	0.32	0.2	110	210	0.5	0.2	1.39	0.5	1	202	6	0.37	110	0.32	20	0.22	51	1	0.02	3	210	3	110	6	0.01	110	110	4	110	6	--
12598	23	0.25	0.2	110	230	0.5	0.2	1.11	0.5	1	174	9	0.47	10	0.22	20	0.34	57	1	0.02	2	220	10	10	11	0.01	110	110	3	110	3	--
12599	10	0.22	0.2	110	320	0.5	0.2	0.11	0.5	1	179	9	0.42	10	0.29	20	0.34	58	1	0.01	3	290	14	110	10	0.01	110	110	5	110	6	--
12600	4	0.21	0.2	10	2650	0.5	0.2	0.74	0.5	2	125	2	0.44	10	0.19	20	0.34	92	1	0.02	3	260	12	110	63	0.01	110	110	4	110	12	--
12601	1	0.50	0.2	110	990	0.5	0.2	0.69	0.5	2	192	12	0.64	110	0.27	20	0.24	99	2	0.02	5	340	14	110	50	0.01	110	110	6	110	40	--
12602	1	1.27	0.2	10	320	0.5	0.2	0.25	0.5	9	122	13	1.42	10	0.29	20	0.31	202	1	0.01	10	390	14	110	39	0.01	110	110	3	110	52	--
12603	347	1.59	0.2	10	270	0.5	0.2	1.22	0.5	7	155	12	1.71	10	0.22	20	1.22	222	1	0.01	9	350	16	110	71	0.01	110	110	7	110	60	--
12604	1	1.40	0.2	10	340	0.5	0.2	1.22	0.5	20	157	14	1.62	10	0.25	20	1.15	222	1	0.01	20	340	10	110	85	0.01	110	110	5	110	60	--
12605	1	1.28	0.2	10	350	0.5	0.2	1.23	0.5	10	162	10	1.37	10	0.26	20	0.95	182	1	0.01	10	310	12	110	79	0.01	110	110	6	110	48	--
12606	4	1.71	0.2	10	370	0.5	0.2	1.91	0.5	5	148	11	1.51	10	0.24	20	1.37	204	1	0.01	7	310	24	110	94	0.01	110	110	8	110	54	--
12607	2	1.07	0.2	110	230	0.5	0.2	1.51	0.5	4	57	9	1.32	10	0.19	20	0.79	160	1	0.01	5	270	24	110	73	0.01	110	110	7	110	46	--
12608	1	0.26	0.2	110	170	0.5	0.2	0.21	0.5	1	30	2	0.26	10	0.22	10	0.29	36	2	0.01	1	70	14	110	19	0.01	110	110	1	110	3	--
12609	1	0.94	0.2	110	290	0.5	0.2	1.32	0.5	1	91	2	0.62	10	0.22	40	0.29	192	1	0.01	2	60	20	110	32	0.01	110	110	1	110	26	--
12610	7	1.31	0.2	110	290	0.5	0.2	1.65	0.5	1	214	2	0.62	10	0.37	40	0.22	122	1	0.01	4	50	20	110	32	0.01	110	110	1	110	22	--
12611	10	0.66	0.2	110	900	0.5	0.2	1.37	0.5	1	77	3	0.50	10	0.20	40	0.19	186	1	0.01	1	50	18	110	95	0.01	110	110	1	110	15	--
12612	6	0.64	0.2	110	250	0.5	0.2	0.11	0.5	1	160	5	0.31	110	0.24	40	0.17	163	1	0.01	2	70	22	110	11	0.01	110	110	1	110	22	--
12613	2	0.41	0.2	110	240	0.5	0.2	0.06	0.5	1	210	6	0.75	110	0.24	30	0.10	123	1	0.01	3	50	16	110	9	0.01	110	110	1	110	20	--
12614	2	0.22	0.2	110	220	0.5	0.2	0.02	0.5	1	150	2	0.42	110	0.21	20	0.27	122	1	0.01	2	50	16	110	5	0.01	110	110	1	110	15	--
12615	1	0.54	0.2	110	250	0.5	0.2	0.38	0.5	1	142	4	0.74	110	0.22	20	0.22	122	1	0.01	4	70	18	110	3	0.01	110	110	1	110	26	--

Certified by *Haitz Buchler*



# Chemex Labs Ltd.

-Analytical Chemists -Geochemists -Registered Assayers

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Semi quantitative multi element ICP analysis.

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

## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2M2

CERT. # : A8617170-001-A  
INVOICE # : I8617170  
DATE : 16-SEP-86  
P.O. # : NONE  
BEAR CRSE#  
*Bear Creek Trench*

COMMENTS :

Sample description	Au	Ag	As	Ba	Be	Bi	Ca	Co	Cr	Cu	Fe	Ga	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sr	Tl	Ti	U	V	W	Zn		
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb		
12616	1	0.73	0.5	<10	260	0.5	0.12	0.5	1	72	5	0.39	10	0.23	30	0.41	131	<1	0.01	2	70	20	<10	12	<0.01	<10	<10	<1	<10	46	--
12617	1	0.80	0.4	<10	290	0.5	0.14	0.5	1	68	3	0.91	10	0.22	26	0.50	112	<1	0.01	2	96	14	<10	13	<0.01	<10	<10	<1	<10	44	--
12618	3	1.67	0.2	<10	260	0.5	0.13	0.5	1	113	1	0.73	10	0.24	30	0.21	88	1	0.01	2	90	14	<10	13	<0.01	<10	<10	1	<10	19	--
12619	1	0.52	0.5	<10	130	0.5	0.10	0.5	1	39	3	0.43	10	0.19	20	0.19	61	1	0.01	2	36	18	<10	19	<0.01	<10	<10	<1	<10	8	--
12620	3	0.29	0.2	<10	140	0.5	0.09	0.5	1	50	3	0.13	10	0.11	20	0.04	59	1	0.01	1	30	12	<10	18	<0.01	<10	<10	<1	<10	8	--
12621	3	0.52	0.2	<10	220	0.5	0.06	0.5	1	115	4	0.56	<10	0.24	50	0.06	77	<1	0.01	3	60	20	<10	12	<0.01	<10	<10	1	<10	9	--
12622	1	0.15	0.2	<10	160	0.5	0.02	0.5	<1	70	2	0.22	<10	0.22	30	0.01	27	<1	0.01	1	40	12	<10	4	<0.01	<10	<10	<1	<10	2	--
12623	<1	0.30	0.2	<10	210	0.5	0.02	0.5	<1	200	2	0.39	<10	0.21	30	0.01	39	<1	0.04	2	30	10	<10	5	<0.01	<10	<10	1	<10	6	--
12624	1	0.31	0.2	<10	210	0.5	0.02	0.5	1	185	2	0.17	<10	0.29	40	0.32	32	1	0.04	2	40	15	<10	5	<0.01	<10	<10	1	<10	3	--
12625	1	0.74	0.2	<10	270	0.5	0.12	0.5	1	56	7	1.14	10	0.29	50	1.21	124	1	0.01	2	70	22	<10	13	<0.01	<10	<10	2	<10	62	--
12626	1	0.54	0.2	<10	1200	0.5	0.15	0.5	1	61	7	1.07	10	0.24	50	0.27	109	<1	0.01	2	70	20	<10	29	<0.01	<10	<10	2	<10	56	--
12627	2	0.94	0.2	<10	240	0.5	0.07	0.5	1	95	4	0.91	10	0.05	50	0.74	135	<1	0.01	4	60	20	<10	57	<0.01	<10	<10	1	<10	48	--
12628	191	0.98	0.2	<10	370	0.5	0.09	0.5	1	159	5	0.91	10	0.24	40	0.27	119	<1	0.01	1	60	22	<10	11	<0.01	<10	<10	1	<10	32	--
12629	3	0.99	0.2	<10	190	0.5	0.43	0.5	1	77	4	0.90	10	0.17	46	0.67	157	<1	0.01	3	50	22	<10	44	<0.01	<10	<10	<1	<10	54	--
12630	7	0.16	0.2	<10	250	0.5	0.08	0.5	1	119	3	0.60	10	0.27	40	0.12	62	<1	0.01	2	50	20	<10	2	<0.01	<10	<10	1	<10	14	--
12631	<1	0.22	0.2	<10	120	0.5	0.04	0.5	<1	36	4	0.42	10	0.09	20	0.32	100	<1	0.01	2	60	20	<10	9	<0.01	<10	<10	2	<10	4	--
12632	1	0.31	0.2	<10	210	0.5	0.13	0.5	1	141	5	0.31	10	0.28	70	0.37	172	1	0.02	5	70	22	<10	11	<0.01	<10	<10	2	<10	12	--
12633	2	0.93	0.2	20	110	0.5	0.09	0.5	7	92	14	0.22	<10	0.06	10	0.46	562	<1	0.01	4	690	6	<10	14	0.02	<10	<10	14	<10	32	--
12634	3	1.45	1.0	40	90	0.5	0.19	0.5	9	56	27	4.02	<10	0.08	10	0.63	242	<1	0.01	6	750	6	<10	6	<0.01	<10	<10	20	<10	50	--
12635	13	1.22	0.6	20	110	0.5	0.16	0.5	9	140	19	3.25	<10	0.12	10	0.31	264	<1	0.01	9	710	4	<10	5	<0.01	<10	<10	14	<10	92	--
12636	2	0.18	0.2	10	130	0.5	0.06	0.5	1	131	4	0.51	10	0.25	50	0.06	104	1	0.01	2	70	22	<10	9	<0.01	<10	<10	2	<10	3	--
12637	<1	0.22	0.2	<10	140	0.5	0.04	0.5	1	69	2	0.33	<10	0.19	20	0.33	31	<1	0.01	2	40	10	<10	5	<0.01	<10	<10	1	<10	6	--
12638	1	0.27	0.2	<10	150	0.5	0.03	0.5	1	74	1	0.10	<10	0.19	20	0.15	28	<1	0.01	2	50	10	<10	6	<0.01	<10	<10	1	<10	5	--
12639	<1	0.48	0.2	<10	250	0.5	0.06	0.5	1	236	2	0.56	<10	0.24	20	0.11	50	<1	0.02	3	40	10	<10	11	<0.01	<10	<10	3	<10	10	--
12640	<1	0.45	0.4	<10	140	0.5	0.10	0.5	1	95	2	0.54	<10	0.14	20	0.25	59	<1	0.01	2	90	10	<10	15	<0.01	<10	<10	3	<10	15	--
12641	<1	0.66	0.2	<10	240	0.5	0.09	0.5	1	160	3	0.68	<10	0.20	20	0.23	68	<1	0.01	4	80	14	<10	11	<0.01	<10	<10	2	<10	20	--
12642	17	0.91	0.2	<10	320	0.5	0.12	0.5	2	217	5	1.05	<10	0.22	30	0.22	131	1	0.01	5	110	14	<10	17	<0.01	<10	<10	6	<10	26	--
12651	<1	0.70	0.2	<10	340	0.5	0.05	0.5	2	193	6	0.98	10	0.19	30	0.35	210	<1	0.02	4	90	34	<10	6	<0.01	<10	<10	1	<10	14	--
12652	<1	0.35	0.2	<10	220	0.5	0.09	0.5	1	194	<1	0.44	10	0.15	20	0.16	209	<1	0.01	2	70	14	<10	10	<0.01	<10	<10	1	<10	19	--
12653	<1	0.77	0.2	<10	190	0.5	0.11	0.5	<1	144	2	0.99	10	0.20	60	0.10	98	<1	0.01	3	70	16	<10	11	<0.01	<10	<10	1	<10	22	--
12654	12	0.99	0.2	<10	310	0.5	0.13	0.5	2	213	6	0.97	<10	0.20	40	0.21	191	<1	0.02	5	90	20	<10	15	<0.01	<10	<10	2	<10	24	--
12655	2	0.97	0.2	<10	400	0.5	0.15	0.5	1	164	5	0.92	<10	0.27	40	0.16	132	1	0.01	4	60	22	<10	26	<0.01	<10	<10	4	<10	20	--
12656	5	1.25	0.2	<10	320	0.5	0.17	0.5	2	135	7	1.20	10	0.25	30	0.59	134	1	0.01	6	140	20	<10	13	<0.01	<10	<10	8	<10	36	--
12657	3	1.07	0.2	<10	260	0.5	0.20	0.5	1	142	6	1.00	10	0.20	50	0.69	167	1	0.01	2	60	22	<10	29	<0.01	<10	<10	<1	<10	62	--

Certified by

*Hans Bickler*

V03 rev 11-85



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## CERTIFICATE OF ANALYSIS

TO : UNITED KENO HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8616253-001-A  
INVOICE # : I8616253  
DATE : 24-AUG-86  
P.O. # : NONE  
BEAR-P53  
Bear Creek Trench

Semi quantitative multi element ICP analysis

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

COMMENTS :

Sample description	Au NAA ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sr ppm	Ti %	Zn ppm	U ppm	V ppm	W ppm	Zn ppm	
12505	<1	0.57	0.2	<10	610	<0.5	<2	0.17	<0.5	1	95	3	0.51	<10	0.10	10	0.46	104	<1	<0.01	3	40	12	<10	32	0.02	<10	<10	1	<10	40	--
12506	<1	0.44	0.2	<10	100	<0.5	<2	0.15	<0.5	1	50	3	0.40	<10	0.06	10	0.29	33	<1	<0.01	2	40	10	<10	25	<0.01	<10	<10	<1	<10	32	--
12507	<1	0.72	0.2	<10	150	<0.5	<2	0.21	<0.5	1	162	3	0.67	<10	0.37	20	0.51	115	<1	<0.01	5	40	14	<10	36	<0.01	<10	<10	<1	<10	46	--
12508	<1	0.99	0.2	<10	290	<0.5	<2	0.22	<0.5	1	153	2	0.90	<10	0.28	10	0.77	92	<1	<0.01	4	40	10	<10	37	<0.01	<10	<10	<1	<10	54	--
12509	<1	1.30	0.2	<10	590	<0.5	<2	0.19	<0.5	1	205	4	1.27	10	0.18	40	1.36	120	<1	<0.02	5	50	18	<10	38	<0.01	<10	<10	1	<10	56	--
12510	2	1.29	0.2	<10	190	<0.5	<2	0.90	<0.5	1	127	5	1.13	10	0.03	40	1.12	104	<1	0.02	4	60	20	<10	49	<0.01	<10	<10	<1	<10	56	--
12511	<1	1.39	0.2	<10	199	<0.5	<2	0.73	<0.5	1	91	3	1.14	10	0.33	40	1.29	91	<1	<0.02	4	60	18	<10	57	<0.01	<10	<10	<1	<10	59	--
12512	<1	0.88	0.2	<10	590	<0.5	<2	0.79	<0.5	1	147	3	0.99	10	0.04	40	0.75	79	<1	0.01	5	90	16	<10	52	<0.01	<10	<10	1	<10	52	--
12513	<1	1.27	0.2	<10	410	<0.5	<2	1.10	<0.5	2	221	2	1.36	10	0.12	20	0.95	95	<1	0.04	5	30	16	<10	67	<0.01	<10	<10	1	<10	39	--
12514	2	1.27	0.2	<10	270	<0.5	<2	0.87	<0.5	2	149	4	0.95	10	0.05	20	0.89	92	<1	0.01	6	200	28	<10	54	<0.01	<10	<10	1	<10	40	--
12515	2	1.30	0.2	<10	100	<0.5	<2	1.27	<0.5	2	184	1	0.65	10	0.12	20	0.99	99	<1	0.01	5	90	14	<10	41	<0.01	<10	<10	1	<10	24	--
12516	3	0.59	0.2	<10	110	<0.5	<2	0.47	<0.5	1	90	1	0.40	<10	0.23	10	0.55	67	<1	0.01	2	50	9	<10	23	<0.01	<10	<10	<1	<10	20	--
12517	12	0.46	0.2	<10	90	<0.5	<2	0.85	<0.5	1	59	1	0.45	<10	0.03	20	0.45	92	<1	0.01	2	70	14	<10	22	<0.01	<10	<10	1	<10	22	--
12518	56	0.86	0.2	<10	160	<0.5	<2	0.85	<0.5	1	92	1	0.73	<10	0.33	20	0.82	125	<1	<0.01	4	70	10	<10	44	0.01	<10	<10	<1	<10	36	--
12519	2	0.22	0.2	<10	190	<0.5	<2	0.17	<0.5	2	124	1	0.76	<10	0.32	10	0.92	92	<1	0.01	4	30	10	<10	18	0.01	<10	<10	1	<10	35	--
12520	<1	1.08	0.2	<10	290	<0.5	<2	0.17	<0.5	2	248	1	0.89	<10	0.35	10	0.98	85	<1	0.02	6	60	3	<10	27	<0.01	<10	<10	1	<10	36	--
12521	<1	0.41	0.2	<10	120	<0.5	<2	0.14	<0.5	1	124	1	0.47	<10	0.03	<10	0.30	44	<1	0.01	3	50	3	<10	23	<0.01	<10	<10	1	<10	14	--
12522	14	0.57	0.2	<10	200	<0.5	<2	0.19	<0.5	1	235	3	0.59	<10	0.10	10	0.33	68	<1	0.01	4	70	10	<10	29	0.01	<10	<10	1	<10	20	--
12523	<1	0.71	0.2	<10	210	<0.5	<2	0.20	<0.5	1	222	2	0.75	<10	1.08	10	0.47	73	<1	<0.01	4	70	10	<10	31	0.01	<10	<10	<1	<10	30	--
12524	2030	1.39	0.2	<10	700	<0.5	<2	0.49	<0.5	1	299	<1	1.22	<10	0.24	20	0.52	101	<1	0.02	6	70	12	<10	84	0.01	<10	<10	<1	<10	40	--
12525	68	1.04	0.2	<10	440	<0.5	<2	0.37	<0.5	1	213	1	0.99	<10	0.22	10	0.43	91	<1	0.02	6	30	10	<10	53	0.01	<10	<10	<1	<10	35	--
12526	2	0.62	0.2	<10	150	<0.5	<2	0.22	<0.5	1	189	1	0.62	<10	0.28	10	0.28	69	<1	0.01	5	90	9	<10	31	0.01	<10	<10	1	<10	30	--
12527	<1	1.27	0.2	<10	470	<0.5	<2	0.28	<0.5	2	276	3	1.18	<10	0.27	10	0.72	104	<1	0.02	9	140	12	<10	51	0.02	<10	<10	2	<10	45	--
12528	7	1.09	0.2	<10	270	<0.5	<2	0.24	<0.5	2	145	14	1.53	<10	0.29	10	0.86	129	<1	<0.01	11	220	12	<10	40	0.02	<10	<10	4	<10	54	--
12529	14	1.21	0.2	<10	210	<0.5	<2	0.37	<0.5	6	159	22	1.82	<10	0.09	10	0.87	175	<1	<0.01	14	490	16	<10	53	0.04	<10	<10	6	<10	72	--
12530	1	1.06	0.2	<10	140	<0.5	<2	0.43	<0.5	4	95	9	1.27	<10	0.06	10	0.73	173	<1	<0.01	5	370	10	<10	45	0.05	<10	<10	5	<10	54	--
12531	<1	1.23	0.2	<10	210	<0.5	<2	0.34	<0.5	4	211	5	1.18	<10	0.39	10	0.93	142	<1	0.01	6	370	3	<10	27	0.04	<10	<10	5	<10	46	--
12532	<1	0.96	0.2	<10	90	<0.5	<2	0.29	<0.5	4	112	9	1.05	<10	0.32	10	0.77	131	<1	<0.01	5	270	6	<10	40	0.01	<10	<10	4	<10	49	--
12533	<1	1.07	0.2	<10	130	<0.5	<2	0.29	<0.5	4	162	5	1.08	<10	0.35	10	0.92	123	<1	0.01	6	400	9	<10	22	0.04	<10	<10	5	<10	50	--
12534	<1	1.33	0.2	<10	140	<0.5	<2	0.33	<0.5	5	111	4	1.27	<10	0.02	10	1.14	137	<1	0.01	7	370	10	<10	32	0.04	<10	<10	6	<10	56	--
12535	<1	1.08	0.2	<10	160	<0.5	<2	0.27	<0.5	5	104	5	1.15	<10	0.33	<10	0.99	131	<1	<0.01	6	380	9	<10	21	0.05	<10	<10	4	<10	52	--
12536	2	1.15	0.2	<10	110	<0.5	<2	0.27	<0.5	4	89	6	1.30	<10	0.06	10	1.02	152	<1	<0.01	5	290	10	<10	22	0.03	<10	<10	5	<10	54	--
12537	<1	1.21	0.2	<10	150	<0.5	<2	0.44	<0.5	5	165	6	1.50	<10	0.36	20	1.00	178	<1	<0.01	7	400	16	<10	39	0.02	<10	<10	7	<10	56	--
12538	<1	0.67	0.2	<10	100	<0.5	<2	0.47	<0.5	1	127	3	0.73	<10	0.66	20	0.49	99	<1	<0.01	3	110	10	<10	36	<0.01	<10	<10	3	<10	32	--
12539	9	1.35	0.2	<10	110	<0.5	<2	0.91	<0.5	1	199	3	0.94	10	0.36	30	0.94	123	<1	0.01	4	50	14	<10	31	<0.01	<10	<10	1	<10	46	--
12540	7	0.76	0.4	<10	180	<0.5	<2	1.26	<0.5	1	125	3	0.75	10	0.09	30	0.62	158	<1	<0.01	3	50	16	<10	90	<0.01	<10	<10	<1	<10	46	--
12541	2	0.45	0.2	<10	210	<0.5	<2	0.09	<0.5	1	175	4	0.62	<10	0.15	30	0.21	118	<1	<0.01	6	80	18	<10	10	<0.01	<10	<10	2	<10	14	--
12542	29	0.72	0.2	<10	190	<0.5	<2	0.14	<0.5	1	155	3	0.79	<10	0.13	20	0.47	99	<1	0.01	3	100	14	<10	19	0.01	<10	<10	1	<10	28	--
12543	<1	0.30	0.2	<10	120	<0.5	<2	0.20	<0.5	1	164	3	0.85	<10	0.05	10	0.65	96	<1	0.01	5	150	12	<10	26	0.02	<10	<10	2	<10	38	--
12544	<1	0.55	0.2	<10	150	<0.5	<2	0.15	<0.5	2	113	2	0.59	<10	0.11	10	0.31	71	<1	<0.01	2	80	12	<10	22	0.01	<10	<10	1	<10	20	--

Certified by *Hart Bickler*



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1  
Phone: (604) 984-0221  
Telex: 043-52597

## CERTIFICATE OF ASSAY

TO : UNITED KENC HILL MINES LIMITED

409 BLACK ST.  
WHITEHORSE, YUKON  
Y1A 2N2

CERT. # : A8617084-001-A  
INVOICE # : I8617084  
DATE : 1-SEP-86  
P.C. # : NCAE  
BEAR-P57

Sample description	Prep code	AU oz/T						
12515 A	214	<0.001	--	--	--	--	--	--
12516 A	214	<0.001	--	--	--	--	--	--
12517 A	214	0.001	--	--	--	--	--	--
12518 A	214	<0.001	--	--	--	--	--	--
12522 A	214	<0.001	--	--	--	--	--	--
12523 A	214	<0.001	--	--	--	--	--	--
12524 A	214	0.023	--	--	--	--	--	--
12525 A	214	0.002	--	--	--	--	--	--
12526 A	214	<0.001	--	--	--	--	--	--
12527 A	214	<0.001	--	--	--	--	--	--
12528 A	214	<0.001	--	--	--	--	--	--
12529 A	214	<0.001	--	--	--	--	--	--
12552 A	214	<0.001	--	--	--	--	--	--
12561 A	214	<0.001	--	--	--	--	--	--
12573 A	214	<0.001	--	--	--	--	--	--
12575 A	214	<0.001	--	--	--	--	--	--
12515 B	214	<0.001	--	--	--	--	--	--
12516 B	214	<0.001	--	--	--	--	--	--
12517 B	214	<0.001	--	--	--	--	--	--
12518 B	214	0.002	--	--	--	--	--	--
12522 B	214	0.001	--	--	--	--	--	--
12523 B	214	<0.001	--	--	--	--	--	--
12524 B	214	0.046	--	--	--	--	--	--
12525 B	214	0.001	--	--	--	--	--	--
12526 B	214	<0.001	--	--	--	--	--	--
12527 B	214	<0.001	--	--	--	--	--	--
12528 B	214	<0.001	--	--	--	--	--	--
12529 B	214	<0.001	--	--	--	--	--	--
12552 B	214	<0.001	--	--	--	--	--	--
12561 B	214	<0.001	--	--	--	--	--	--
12573 B	214	<0.001	--	--	--	--	--	--
12575 B	214	<0.001	--	--	--	--	--	--

VOI rev. 4/85

.....  
Registered Assayer, Province of British Columbia

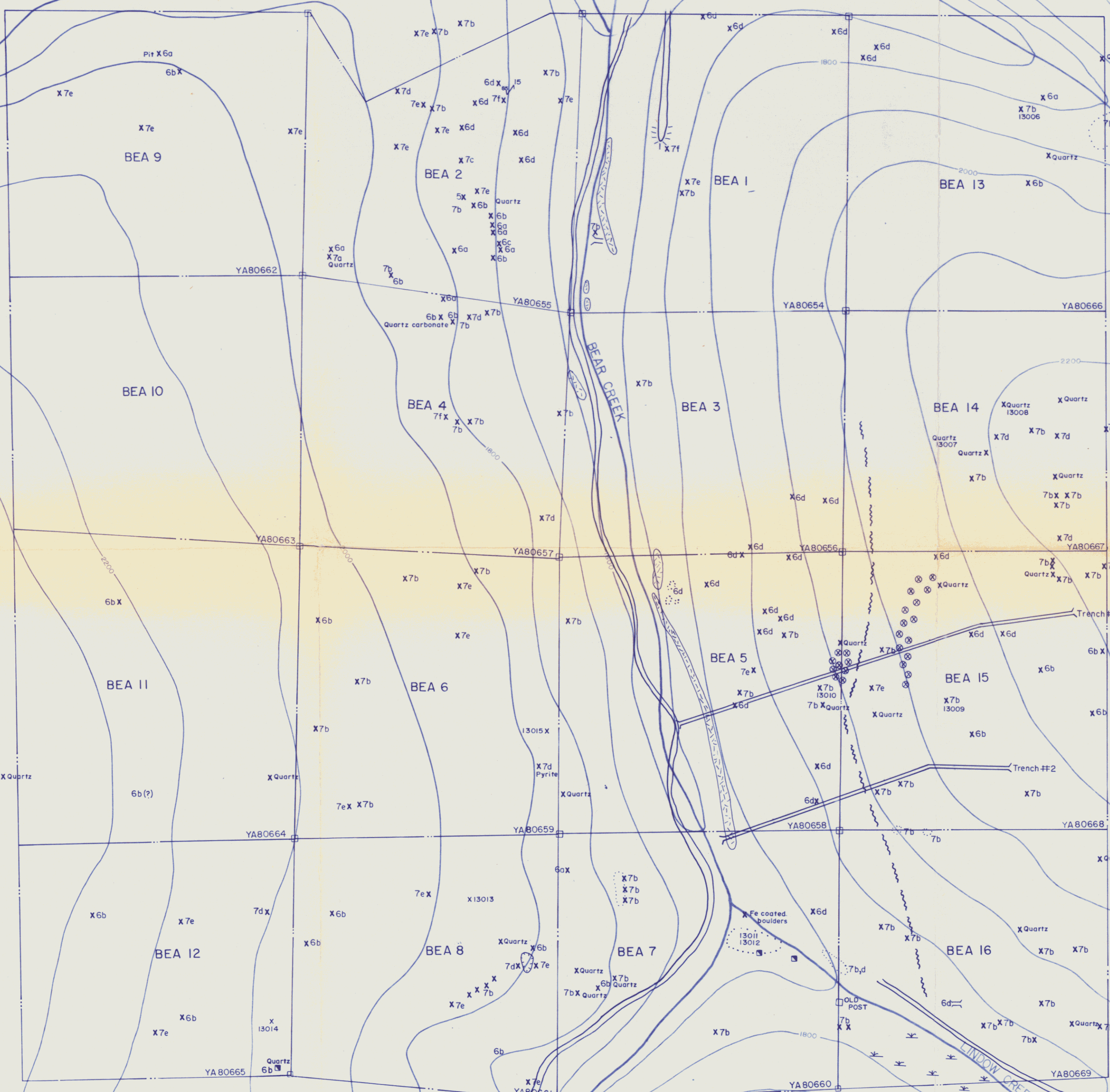


Approximate position of the Virgin showing

DISCOVERY PUP

BEAR CREEK

LINDEN CREEK



**LEGEND**

	Tailings		Outcrop
	Adit		Trench
	Chip sample		Float
	Foliation		Approximate fault
	Shaft		Claim post
	Road		Creek
	Claim boundary		Sample number
	Pit		

**Mortenson's Felsic Schist**

5 Ton to rusty weathered quartz muscovite schist.

**Andesite Porphyry**

6a Massive weakly foliated porphyry to quartz and/or feldspar phenocrysts.

6b Sheared and recrystallized porphyry "quartz eye schist" quartz muscovite schist ± blue to white quartz eyes ± minimum chlorite.

6c Banded and blocky quartz and/or feldspar porphyry, green fine-grained groundmass.

6d Banded and blocky pink and green gneiss, quartz, feldspar, muscovite, chlorite, greiss and minor chlorite.

**Mafic Meta-Volcanics**

7a Massive fine-grained amphibolite.

7b Quartz, chlorite gneiss ± minor muscovite often with ± diss. pyrite.

7c Chlorite schist ± minor muscovite ± talc alteration ± actinolite ± diss. pyrite ± quartz sweets.

7d Muscovite schist ± minor chlorite ± quartz sweets.

7e Siliceous schist, fine grained white to rusty muscovite, feldspar, quartz schist ± pyrite.

UNITED KENO HILL MINES LTD.  
EXPLORATION DEPARTMENT  
WHITEHORSE - YUKON

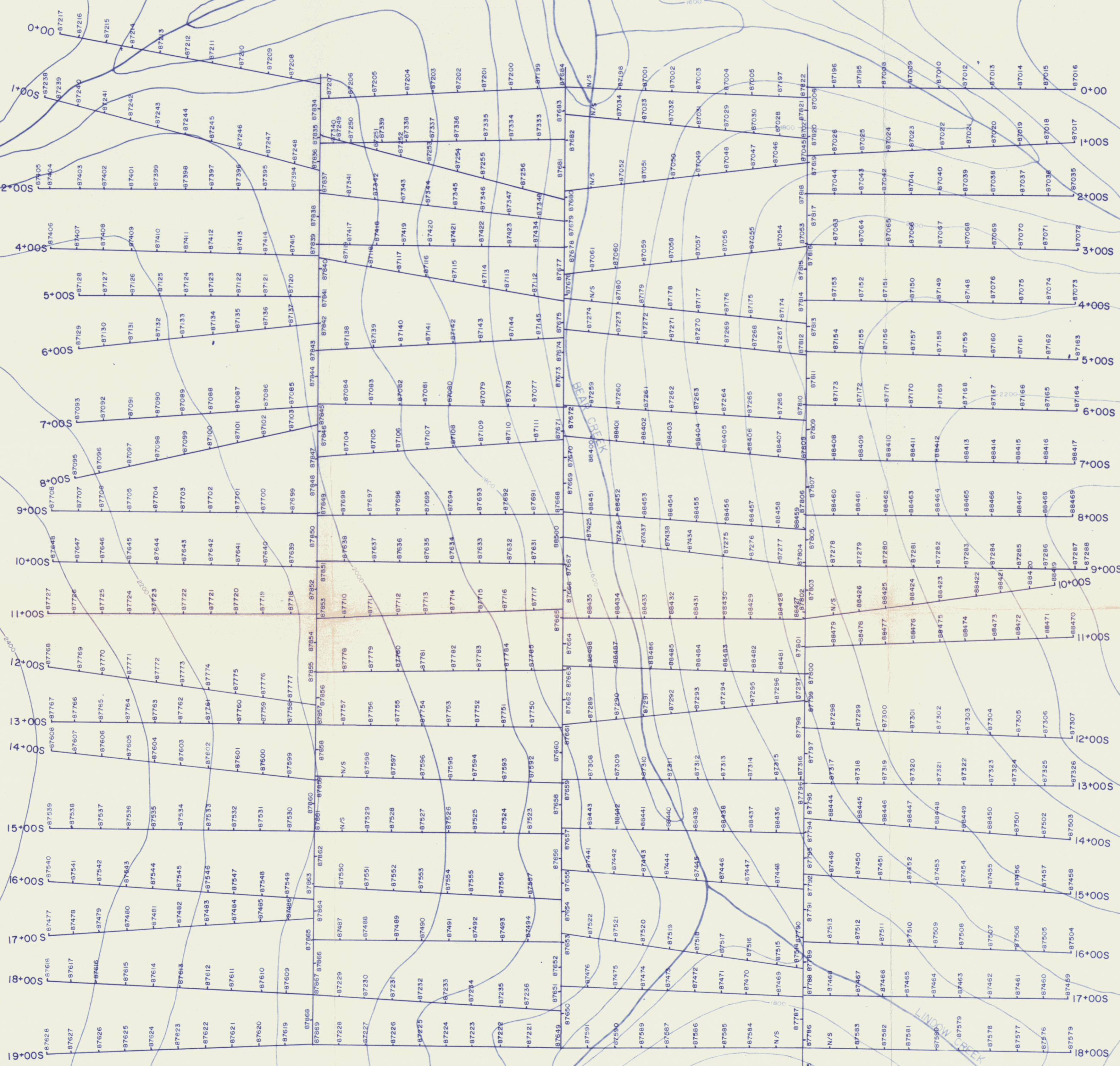
**BEAR CREEK  
GEOLOGY**

Mining District DAWSON  
N.T.S. Sheet No. 115-0  
Scale 1:5,000 1cm = 50m

Drawn by H.D.P. Date 86/11/31



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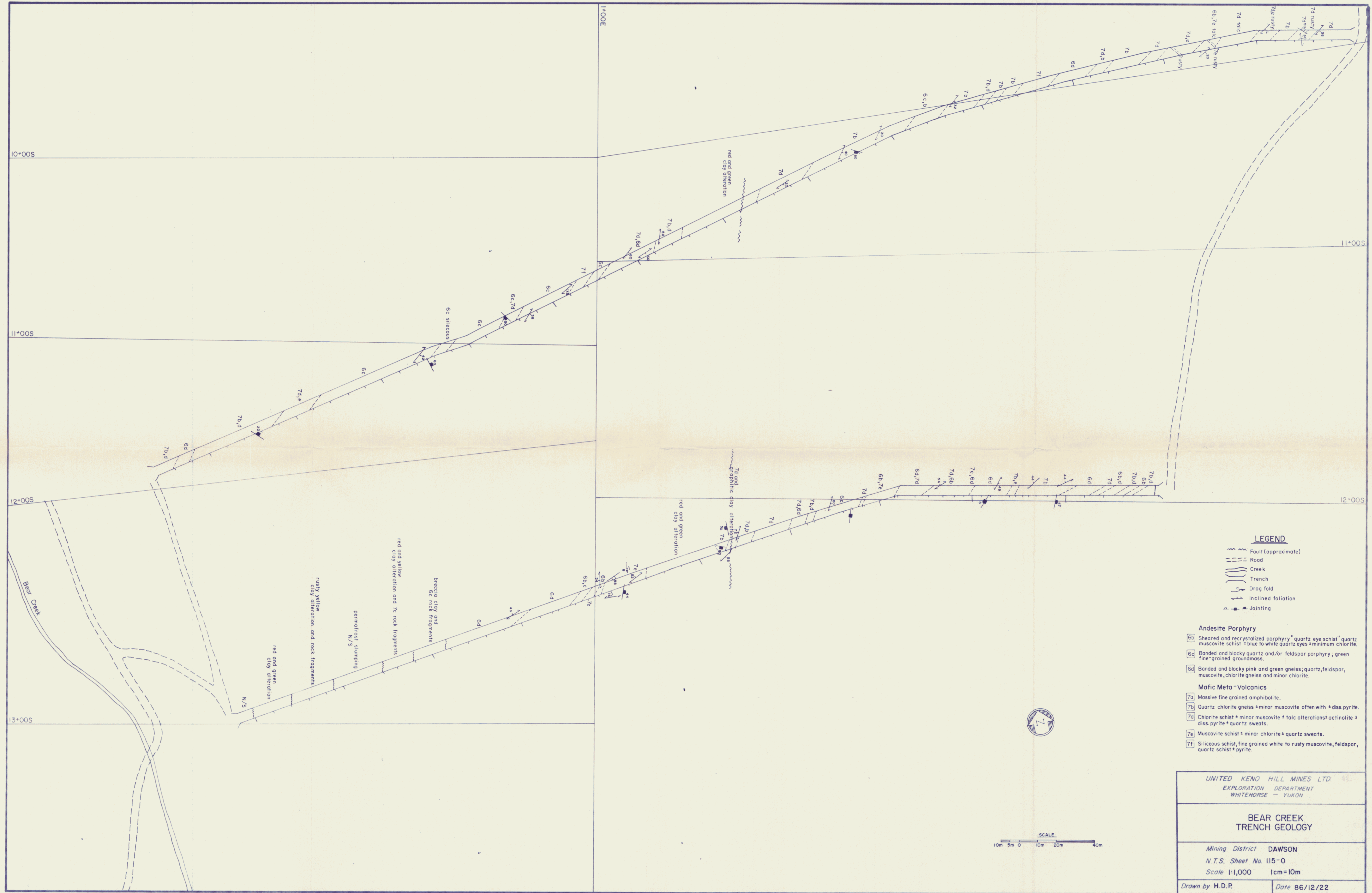
UNITED KENO HILL MINES LTD  
 EXPLORATION DEPARTMENT  
 WHITEHORSE - YUKON

**BEAR CREEK  
 SAMPLE LOCATIONS**

Mining District **DAWSON**  
 N.T.S. Sheet No. **115-0**  
 Scale 1:5,000 1cm = 50m

Drawn by **H.D.P.** Date **86/11/21**





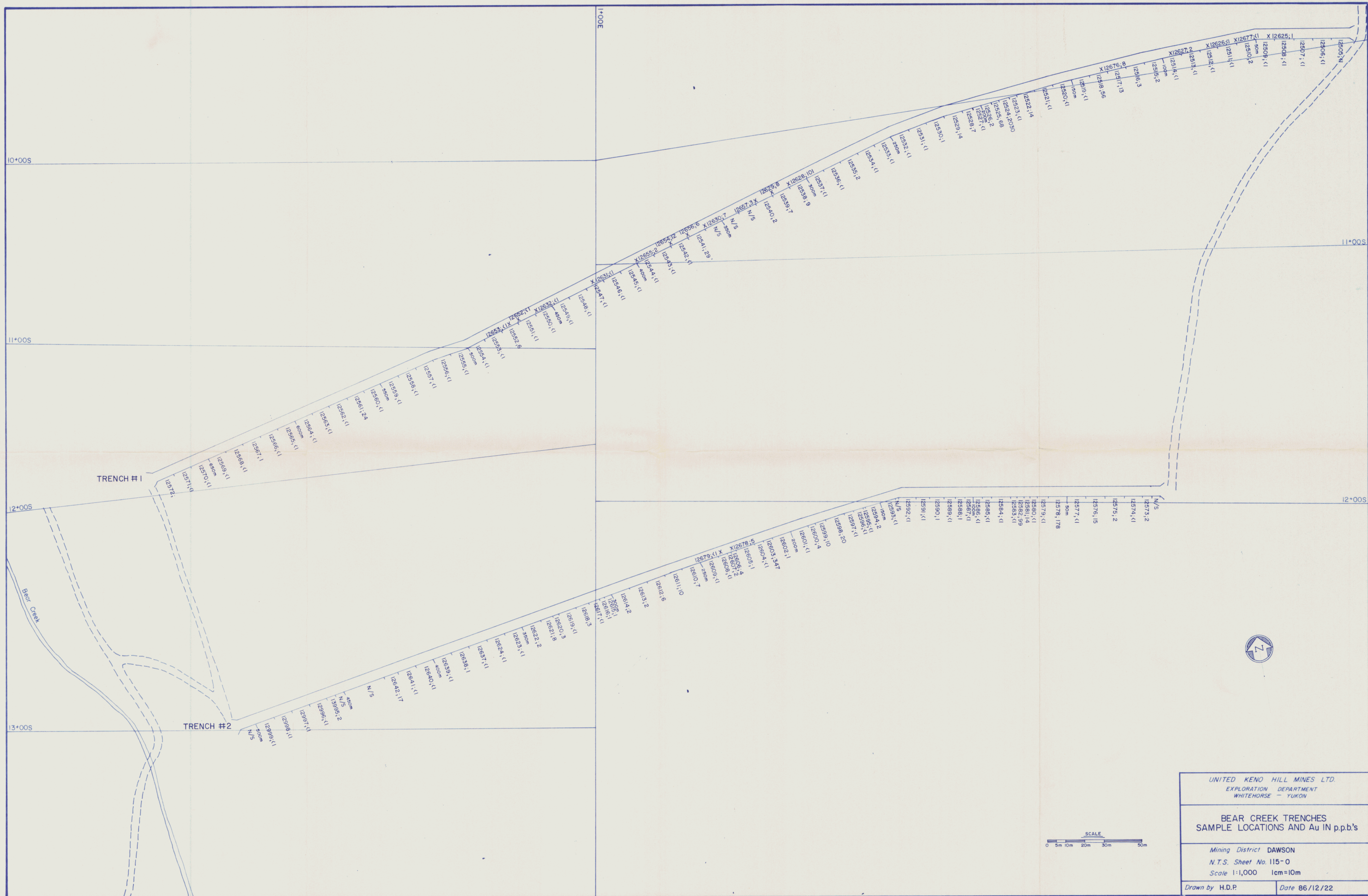
- LEGEND**
- Fault (approximate)
  - Road
  - Creek
  - Trench
  - Drag fold
  - Inclined foliation
  - Jointing
- Andesite Porphyry**
- 6b Sheared and recrystallized porphyry "quartz eye schist" quartz muscovite schist ± blue to white quartz eyes ± minimum chlorite.
  - 6c Banded and blocky quartz and/or feldspar porphyry; green fine-grained groundmass.
  - 6d Banded and blocky pink and green gneiss; quartz, feldspar, muscovite, chlorite gneiss and minor chlorite.
- Mafic Meta-Volcanics**
- 7a Massive fine grained amphibolite.
  - 7b Quartz chlorite gneiss ± minor muscovite often with ± diss. pyrite.
  - 7c Chlorite schist ± minor muscovite ± talc alterations ± actinolite ± diss. pyrite ± quartz sweets.
  - 7e Muscovite schist ± minor chlorite ± quartz sweets.
  - 7f Siliceous schist, fine grained white to rusty muscovite, feldspar, quartz schist ± pyrite.

UNITED KENO HILL MINES LTD.  
EXPLORATION DEPARTMENT  
WHITEHORSE - YUKON

**BEAR CREEK  
TRENCH GEOLOGY**

Mining District **DAWSON**  
N.T.S. Sheet No. 115-0  
Scale 1:1,000 1cm=10m

Drawn by H.D.P. Date 86/12/22



UNITED KENO HILL MINES LTD. EXPLORATION DEPARTMENT WHITEHORSE - YUKON	
BEAR CREEK TRENCHES SAMPLE LOCATIONS AND Au IN p.p.b.'s	
Mining District DAWSON	
N.T.S. Sheet No. 115-0	
Scale 1:1,000 1cm=10m	
Drawn by H.D.P.	Date 86/12/22

## CERTIFICATE OF QUALIFICATIONS

I, Dennis R. Prince, with business address of:

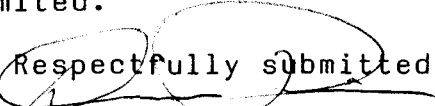
United Keno Hill Mines Limited  
409 Black Street  
Whitehorse, Yukon  
Y1A 2N2  
Tel: 403-667-7817

and residential address of:

13 Koidern Avenue  
Whitehorse, Yukon  
Y1A 3N7  
Tel: 403-667-4720

do hereby certify that:

1. I am a practicing geologist.
2. I hold a Bachelor of Science (Honours) Degree (1970) in Geology from Memorial University of Newfoundland.
3. I am a Fellow of the Geological Association of Canada.
4. I am a Member of the Professional Geoscientists Society of Yukon.
5. I have been practicing my profession for 16 years. I was employed by Falconbridge Limited as an Exploration Geologist from 1970 to 1981 and am now employed by United Keno Hill Mines Limited in the capacity of Exploration Manager.
6. This report, entitled "Report on the Geological Mapping, Geochemical sampling, and Trenching Program on the Bear Creek Property" and dated December, 1986 is based on work supervised by me as an employee of United Keno Hill Mines Limited and on other available geological data on the property.
7. I have not received nor do I expect to receive any interest, either directly or indirectly, in the properties concerned in this report or in United Keno Hill Mines Limited.

  
Respectfully submitted

Dennis R. Prince  
B.Sc.(Hon.), FGAC

January 8, 1987