

MAP NO. ASSESSMENT REPORT X DOCUMENT NO.: 092624  
PROSPECTUS MINING DISTRICT: Whitehorse  
CONFIDENTIAL X TYPE OF WORK: Geological, geochemical  
105 D 3 OPEN FILE

REPORT FILED UNDER: Skukum Gold Inc.

DATE PERFORMED: 19 May-11 September, 1988

DATE FILED: 20 December, 1988

LOCATION: LAT.: 60 01'N

AREA: Bennett Lake

LONG.: 135 07'W

VALUE \$: 10 900.00

CLAIM NAME & NO.: PIM 1-109 (YA98388-400; YB05801-96)

WORK DONE BY: A.L. Wilkins, H.F. Mackinnon

WORK DONE FOR: Skukum Gold Inc.

DATE TO GOOD STANDING

REMARKS: ~~New showing # 274 PIM~~ LAURELLE # 15

Prospecting and geochemical sampling in 1988 turned up numerous anomalies and four showings. The HL zone consists of parallel quartz veins containing up to 191.7 g/t Ag, 47 739 ppm As, 17933 ppm Cu, and 20 999 ppm Pb, 1155 ppb Au.



# SKUKUM GOLD INC.

## PRELIMINARY GEOLOGICAL AND GEOCHEMICAL R E P O R T

ON THE

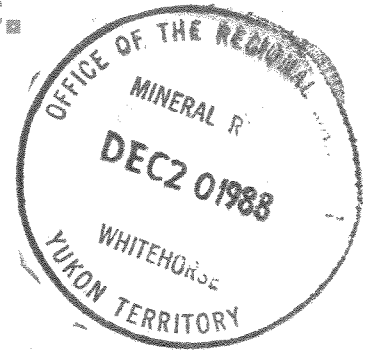
PIM 1-109 MINERAL CLAIMS  
(YA98388-400 & YB05801-896)

WEST ARM OF BENNETT LAKE AREA  
WHITEHORSE MINING DISTRICT  
YUKON TERRITORY

N.T.S.: 105D-3

LATITUDE: 60 DEGREES 01 MINUTES NORTH  
LONGITUDE: 135 DEGREES 07 MINUTES WEST

SKUKUM GOLD INC.  
#706-595 Howe Street,  
Vancouver, B.C.  
V6C 2T5



BY

ANDREW L. WILKINS B.Sc.  
and  
HUGH F. MacKINNON B.Sc.

May 19, 1988 to October 02, 1988

092624

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 10 900.00.

*[Signature]*  
Regional Manager, Exploration and  
Geological Services for Commissioner,  
of Yukon Territory.

## SUMMARY

This report describes exploration work performed on the **PIM 1 - 109** Claims located just south of the West Arm of Bennett Lake in the southern Yukon.

The property is underlain by Yukon Group metamorphic rocks of the Yukon Crystalline Complex, which have been intruded by granitic rocks of the Coast Plutonic Complex. These units are intruded or overlain by volcanic rocks and related sediments of the Bennett Lake Complex of Eocene age. Epithermal and mesothermal veins and structures are found throughout the Bennett Lake Caldera and the potential for finding commercial precious metal deposits is good.

Exploration work consisted of preliminary geological mapping, prospecting, and geochemical rock sampling, talus fines sampling and stream sediment silt sampling. A total of 5 silt samples, 429 talus fines samples and 58 rock samples were collected from the property during the summer of 1988.

Numerous geochemical talus fines anomalies and mineralized showings were discovered on the property. The most significant is the HL zone which covers an area of 300 meters by 250 meters and consists of a series of parallel quartz veins up to 15 cm. wide with arsenopyrite, pyrite, chalcopyrite and galena mineralization. Assays of up to 5.59 ounces per ton (191.7 gm./tonne) silver and geochemical analysis of up to 47,739 ppm arsenic, 17,933 ppm copper, 20,999 ppm lead and 1,155 ppb gold have been found in the zone.

Preliminary exploration work is still incomplete and follow up work is warranted on the PIM Claims.

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## 1. INTRODUCTION

### 1.1 LOCATION & ACCESS

The PIM 1 - 109 Claims are located north of, and adjoining the Yukon - B.C. border, on the east side of Partridge Lake, at 60 degrees 01 minutes North latitude, 135 degrees 07 minutes West longitude (N.T.S. 105D-3). The property is accessible by helicopter or floatplane, with the nearest permanent bases being Whitehorse, Y.T. or Atlin, B.C. The 1988 work program was conducted from a camp established in the Wheaton River Valley, Y.T.

### 1.2 CLIMATE, TOPOGRAPHY & VEGETATION

The climate in this area of the Yukon is variable with hot summers, enhanced by 18 - 20 hours of daylight, and long cold winters. Precipitation is moderate (120 cm. annually) with about half falling as rain. At the higher elevations, snow remains on the north exposures well into July. The rivers and lakes are open from mid May to late October.

The topography of the PIM claims is fairly rugged with precipitous mountainsides, glacially sculptured cirques and valleys, and alpine passes. Snowfields and small glaciers exist on the northern aspects of most of the ridges and mountains within the claim group. Maximum relief in the area is approximately 1450 meters (4750 ft.) with valley floors (Bennett Lake) of 656 meters (2152 ft.) and summits up to 2100 meters (6900 ft.).

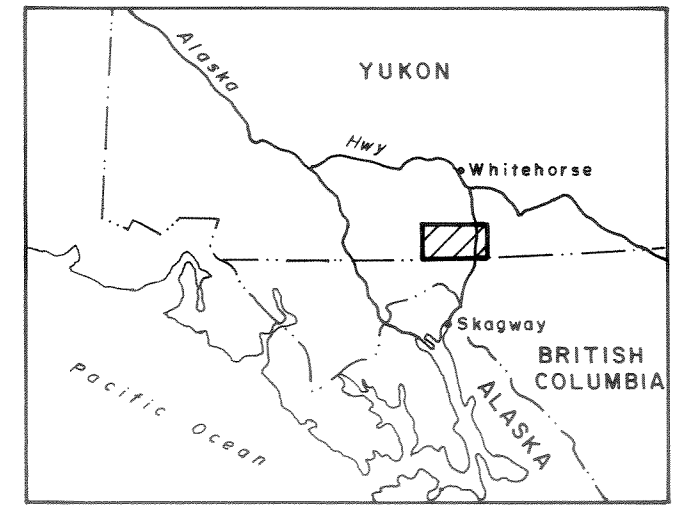
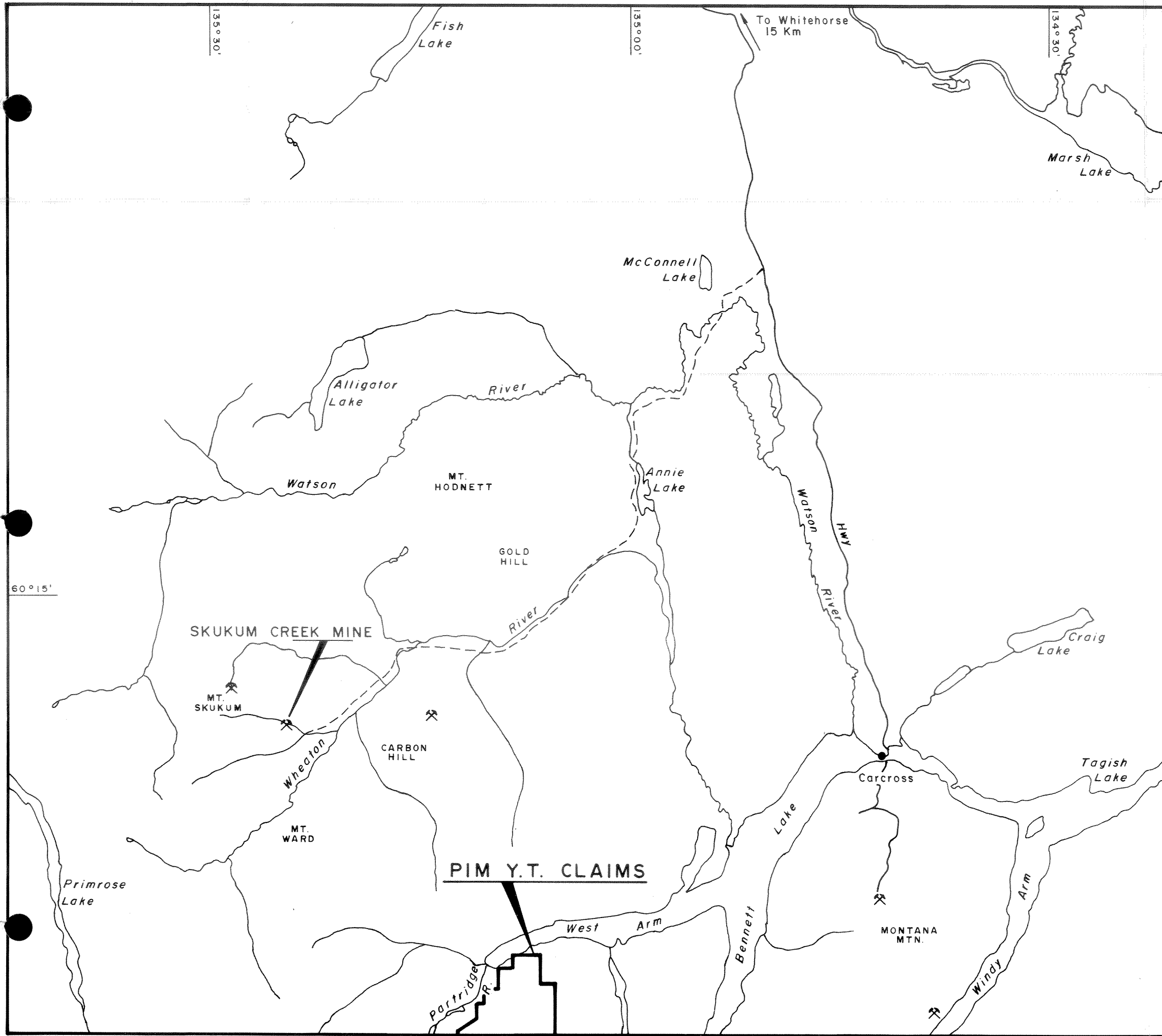
Eighty percent of the property is above treeline, with talus and felsenmeer covering the higher elevations, and stunted spruce, willows, alpine grasses, shrubs and wild flowers in the subalpine zone, and forests of spruce, pine, poplar, and balsam below treeline.

### 1.3 PROPERTY & CLAIM STATUS

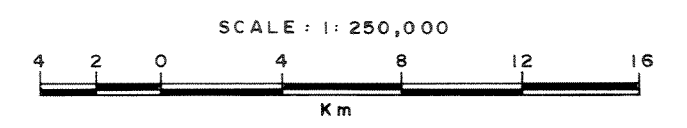
The PIM Y.T. Property consists of 109 contiguous claims located within the Whitehorse Mining District and staked under the provisions of the Yukon Quartz Mining Act. The claims are listed as follows in Table 1.

TABLE 1 - CLAIM STATUS

Claim Name	Grant Numbers	Recording Date	Renewal Period	Total Claims
PIM 1 - 13	YA98388-400	JUL 02, 1987	OCT 02, 1989*	13
PIM 14	YB05801	JUL 02, 1987	OCT 02, 1989*	1
PIM 15 - 20	YB05802-807	JUL 02, 1987	OCT 02, 1990*	6
PIM 21 - 59	YB05808-846	JUL 02, 1987	OCT 02, 1989*	39
PIM 60 - 69	YB05847-856	JUL 02, 1987	OCT 02, 1990*	10



LOCATION MAP



**SKUKUM GOLD INC.**  
**PIM Y.T. CLAIMS**  
 WHITEHORSE MINING DIVISION - YUKON TERRITORY

**LOCATION MAP**

N.T.S. 105D3  
 DRAWN BY: A.L.W., H.F.M., T.M.

FIGURE No. 1  
 DATE: NOV. 1988



TABLE 1 (cont.)

Claim Name	Grant Numbers	Recording Date	Renewal Period	Total Claims
PIM 70 - 83	YB05857-870	JUL 02,1987	OCT 02,1989*	14
PIM 84 - 93	YB05871-880	JUL 02,1987	OCT 02,1990*	10
PIM 94 -109	YB05881-896	JUL 02,1987	OCT 02,1989*	16

\* pending acceptance of this report.

The claims are shown on Claim Sheet 105D-3 and lie within the Whitehorse Mining District. All the claims are 100% owned by Skukum Gold Inc. of Vancouver, B.C..

#### 1.4 PREVIOUS WORK HISTORY

No record of exploration work has been recorded on the PIM claim block, other than regional silt sampling of Lemieux Creek and it's tributaries by several companies in the early 1980's. A regional stream sediment geochemical survey was conducted by the Geological Survey of Canada in 1985 (G.S.C., 1985) and outlined a few anomalous steams in the area. Since the early 1980's there has been sporadic exploration work conducted on numerous properties located in the immediate vicinity (Bennett Lake Caldera Complex). These properties saw initial interest in uranium exploration and more recently, in precious metals exploration. Several important epithermal and mesothermal style lead-zinc-arsenic-silver-gold showings exist in the Bennett Lake Caldera. Skukum Gold and several other companies are conducting work throughout the Bennett Lake Caldera Complex.

#### 1.5 1988 WORK PROGRAM

A preliminary exploration program was carried out by a four person crew intermittently between May 19 and September 11, 1988. The Skukum Creek Mining Camp in the Wheaton River Valley was used as a base and a Hughes 500D helicopter was used for access to the property.

Exploration consisted of prospecting, preliminary mapping, rock sampling, stream sediment sampling and talus fines sampling.

The 1988 work program was conducted by the following Skukum Gold Inc. personnel:

- Andrew Wilkins B.Sc.....Project Geologist
- Hugh MacKinnon B.Sc.....Geologist
- Ian Bilquist B.Sc.....Geologist
- Erik Bergvinson.....Geological Assistant
- Tenney Wilkins.....Geological Assistant
- Martin Rhodes.....Geological Assistant (Student)
- Chris Wallace.....Geological Assistant (Student)

## 2. GEOLOGY

### 2.1 REGIONAL GEOLOGY

The regional geology is summarized in Figure 3.

The PIM Claims lie on the eastern edge of the Nisling Terrane, near the boundary with folded Mesozoic volcanic and sedimentary rocks of the Whitehorse Trough to the east. The Nisling Terrane is composed of rocks of the Proterozoic to Permian Yukon Crystalline Terrane and the Triassic to Tertiary Coast Plutonic Complex.

Lower Tertiary volcanics of the Skukum Group unconformably overlie the granitic rocks of the Coast Plutonic Complex and the discontinuous roof pendants of schists, gneisses, marbles and quartzites of the Yukon Group. The Skukum Group is the northernmost part of the Sloko volcanic province and outcrops in two distinct areas. The Bennett Lake Cauldron Subsidence Complex of Eocene age, is the more southerly of the two pockets of Skukum Group volcanics and underlies most of the PIM claims.

The area of the Bennett Lake Volcanic Complex was mapped in detail by M.B. Lambert (G.S.C., 1974). Lambert concludes that the Eocene volcanic rocks of the complex

"..consists mainly of rhyolite to dacite ash-flow tuffs and breccias with subordinate rhyolite, dacite and andesite lavas. The volcanic rocks are partly circumscribed by a large rhyolite ring dike...., the complex consists of two nested calderas, an eroded structural dome and a thick succession of pyroclastics and epiclastic rocks related to eruption, subsidence and filling of the cauldrons."

Twenty-five kilometers to the north is another group of Skukum Volcanics that is also an Eocene aged caldera complex. Much exploration work has been generated in this area since the development of **TOTAL ERICKSON'S MT. SKUKUM MINE** (Au, Ag), and **OMNI RESOURCES'** and **SKUKUM GOLD'S** opening **SKUKUM CREEK MINE** (Au, Ag, Pb, Zn, Cu).

### 2.2 PROPERTY GEOLOGY

Property geology is presented on Map 1 in the back pocket.

#### 2.2.1 LITHOLOGY

The PIM claims are underlain by Upper Cretaceous or Lower Tertiary quartz monzonite (Kqm) and hornblende + biotite granodiorite (Kgd) of the Coast Mountain Plutonic Complex, as well as roof pendants of Paleozoic quartz - feldspar - biotite - muscovite gneisses and schists (HCsn), and marbles (HCm) of the Yukon Group. These rocks are found on the



# LEGEND

## QUATERNARY

- R<sub>mc</sub>** Miles Canyon Basalt  
Dark red to brown weathering, columnar jointed flows of amygdaloidal and vesicular basalt
- Q<sub>c</sub>** Colluvial Deposits  
Locally derived, unconsolidated gravel
- Q<sub>f</sub>** Fluvial Deposits  
Unconsolidated gravel, silt and sand of fluvial or glaciofluvial origin
- Q<sub>l</sub>** Lacustrine Deposits  
Unconsolidated sand, silt and varved clay of glacial or glaciolacustrine origin
- Q<sub>g</sub>** Glacial Deposits  
Unconsolidated, moraine, esker, kame and drift material

## TERTIARY

### Eocene

#### BENNETT LAKE CAULDERA COMPLEX (50-52Ma)

- E<sub>qfp</sub>** Bennett Lake Ring Dykes  
Coarse quartz-feldspar granite porphyry
- E<sub>bc</sub>** Boudette Creek Formation  
Ignimbrite, tuff, boulder conglomerate
- E<sub>jc</sub>** Jones Creek Formation  
Basalt, rhyolite and tuff
- E<sub>ct</sub>** Crozier Tuffs and Lavas  
Tuff, ignimbrite, rhyolite lavas
- E<sub>lc</sub>** Lemieux Creek Formation  
Granitic boulder conglomerate and breccia
- E<sub>cb</sub>** Crozier Breccias  
Volcanic breccia, conglomerate
- E<sub>mc</sub>** MacCauley Creek Formation  
Ignimbrite
- E<sub>g</sub>** Gault Formation  
Granite boulder conglomerate
- E<sub>cm</sub>** Cleft Mountain Formation  
Ignimbrite, dacite and andesite lavas
- E<sub>pl</sub>** Partridge Lake Formation  
Ignimbrite
- T<sub>al</sub>** Ilex Alaskite  
Buff weathering, miarolitic, fine- to medium-grained, crowded granite porphyry, alaskite and apite dykes

## LATE CRETACEOUS and TERTIARY

- KT<sub>qm</sub>** Pink Quartz Monzonite  
Pale pink weathering, medium-grained, quartz-monzonite
- KT<sub>al</sub>** Perkins Peak Plug  
Alaskite-granite with mafic border phase rich in biotite and hornblende
- KT<sub>gr</sub>** Mount McNeil Biotite Granite  
Light rusty orange weathering, medium-grained, biotite granite
- LK<sub>lg</sub>** Leucogranite  
White weathering, medium-grained, saccharoidal textured, quartz rich granite
- K<sub>v</sub>** Felsic to intermediate Volcanics  
Interbedded dark grey vitreous rhyolite flows and lithic tuff, porphyritic andesite flows, tuff and associated epiclastic sediments

## CRETACEOUS

- K<sub>gr</sub>** Folle Mountain Granite  
Medium- to coarse-grained biotite granite
- K<sub>gd</sub>** Grandodiorite  
Grey, coarse-grained hornblende granodiorite
- mK<sub>gr</sub>** Mount Anderson Granite-Granodiorite  
Crumbly weathering biotite, hornblende granite granodiorite
- K<sub>qm</sub>** Boudette Creek Quartz Monzonite  
Dark grey weathering, massive, medium- to coarse-grained, smokey quartz-eye biotite hornblende quartz-monzonite

## JURASSIC and CRETACEOUS

### UPPER JURASSIC

- JK<sub>gd</sub>** Wheaton Valley Hornblende Granodiorite  
Medium- to coarse-grained foliated, highly fractured and altered hornblende granodiorite

### UPPER JURASSIC AND CRETACEOUS

- JK<sub>dl</sub>** Fenwick Creek Diorite  
Fine- to medium-grained, acicular hornblende, biotite diorite, quartz diorite with mafic xenoliths, and minor gabbro

## UPPER TRIASSIC TO JURASSIC

- T<sub>ub</sub>** Pyroxenite  
Dark brown, coarse-grained pyroxenite with locally developed serpentine in shears
- T<sub>b</sub>** Leuco-Gabbro  
Coarse-grained foliated leucogabbro
- T<sub>gd</sub>** Megacrystic Granite-Granodiorite  
Pink potassium feldspar megacrystic granodiorite, commonly with easterly trending mafic dyke swarms
- T<sub>bx</sub>** Intrusion Breccia ?  
Siliceous fragmental breccia of uncertain age

## LEWES RIVER GROUP

- T<sub>lv</sub>** Volcanic Rocks  
Massive, resistant, altered, dark-green andesitic flow, breccia, tuff, feldspar porphyry and augite porphyry commonly sheared to chlorite or chlorite augen schist; or talc schists with secondary epidote or iron-carbonate alteration

## PALEOZOIC AND OLDER

- P<sub>gdn</sub>** Granodiorite  
Foliated hornblende and hornblende-biotite granodiorite, quartz diorite and quartz monzonite
- H<sub>csn</sub>** Gneiss, Schist  
Resistant, slightly rusty weathering, mesocratic, biotite muscovite quartz and feldspar schist, chlorite-rich, biotite-granite gneiss; quartzite and minor quartz mica schist with rare amphibolite bands
- H<sub>c</sub>** Marble  
Variably sheared massive to thickly-bedded white to dark-grey granular marble

<b>SKUKUM GOLD</b>		
PIM Y.T.		
Regional Geology		
NTS: 105 D13	Scale: 1:50,000	
Date Nov/88	ALW	Fig 3

eastern perimeter of the claims. The Yukon Group and Coast Mountain Plutonic Complex have been overlain and intruded by Eocene volcanics and related feeder pipes and dykes of the Bennett Lake Cauldron Subsidence Complex. The basement rocks are commonly shattered and brecciated along the cauldron margins and adjacent to faults and dykes.

The Bennett Lake Cauldron Subsidence Complex consists of three formations in the claim area. The Partridge Lake Formation (EPL) is found throughout the claims and consists mainly of non to partly welded tuffs of pale green to pale grey colour. It forms pale greenish grey weathering bluffs along the lower sides of Partridge Lake and Lemieux Creek valleys. The Cleft Mountain Formation (ECM) outcrops as dark brown to dark grey weathering, massive, precipitous cliffs between Partridge Lake and Lemieux Creek in the southwest portion of the claims and overlies the Partridge Lake Formation. It consists of ignimbrites, dacite lavas, andesite lavas, arenites and tuffs. The Gault Formation (EG) conformably overlies the Cleft Mountain and Partridge Lake formations. It consists mainly of granitic boulder conglomerate and sandstone with minor amounts of siltstone, shale and volcanic breccia.

All the above rocks are cut by quartz eye - feldspar porphyry dykes of rhyolitic composition (Eqfp) and are referred to as "ring" dykes for they circle the cauldron complex. The dykes pinch and swell, are steeply dipping and range from 150 to 400 meters wide. In the northeastern portion of the claims is a leucocratic dyke like granitic intrusion believed to be related to the cauldron subsidence complex. It is up to 275 meters wide and at least 5 kilometers long, and dips steeply to the north. Other rhyolitic, dacitic, andesitic and basaltic dykes are found on the property and are related to the evolution of the cauldron complex.

**TABLE 2: - TABLE OF FORMATIONS**

QUATERNARY

Q.....Glacial drift, alluvium.

**Unconformity**

TERTIARY

EOCENE

Ebd, ad, dd, rd...Basalt dyke, andesite dyke, dacite dyke, rhyolite dyke.

Eqfp.....Ring dyke intrusions: rhyolitic quartz-feldspar porphyry.

**Intrusive contact**

TABLE 2 (cont.)

SKUKUM GROUP

EG.....Gault Formation: granitic boulder conglomerate, sandstone; minor siltstone, shale, tuff and volcanic breccia.

ECM.....Cleft Mountain Formation: lithic and feldspathic wacke, tuff, ignimbrite, andesite lavas, felsophyric dacite lavas.

EPL.....Partridge Lake Formation: granitic boulder conglomerate and breccia, ignimbrite, non to partly welded, lapilli tuff, tuff breccia; minor dacite and andesite lavas.

**Unconformity**

CRETACEOUS AND TERTIARY

COAST PLUTONIC COMPLEX

Tgr.....Leucocratic granite (possible ring fracture intrusion - age uncertain).

Kqm.....Quartz monzonite.

Kgd.....Granodiorite.

**Intrusive contact**

PALEOZOIC AND OLDER

YUKON GROUP

HCm,sn.....Marble, quartz-feldspar-biotite-muscovite gneiss and schist.

**2.2.2 STRUCTURE**

The main structural features of the Bennett Lake complex include concentric and radial fracture systems, two nested cauldrons and a central dome (Lambert, 1974). The outer ring-fracture system is marked by the ring dykes, the deep curved valley of Lemieux Creek and other steeply dipping faults and dykes. The inner ring-fracture system is defined by two curved east-southeast and northwest trending faults in the vicinity of the claims, east and north of the abandoned town of Gault on Partridge Lake. The ring fracture systems mark the approximate rims of the two nested cauldrons.

Along the outer ring-fracture system, in the center of the

claims, is an eruptive center that is the source for the Partridge Lake Formation. In this center an ignimbrite body about 500 meters across cuts a chaotic mass of volcanic breccias and tuffs. The center is cut by a series of east to southeast trending faults subparallel to the ring dyke which bounds the north side.

### 3. GEOCHEMISTRY

#### 3.1 INTRODUCTION

Talus fines were collected along the base of most of the slopes on the property at 50 meter spacings between samples. Stream sediment silt samples were collected from some of the streams where possible. Grab rock samples were collected from interesting lithologies, alteration and mineralized occurrences. A total of 429 talus fines samples, 5 silt samples and 58 rock samples were collected.

Sample locations are presented on Map 2. Geochemical analysis and assay certificates are presented in Appendix 2. All the data was combined with other geochemical data from Skukum Gold Inc.'s 1988 stream sediment and talus fines sampling programs on other claims in the Bennett Lake Caldera for the determination of anomalies.

#### 3.2 SAMPLE PREPARATION AND ANALYTICAL PROCEDURE

Talus fines and silt samples were collected in KRAFT gussetted paper bags and sent to ACME ANALYTICAL LABS of Vancouver B.C.. At ACME, samples were oven dried at approximately 60 degrees Celsius and sieved to minus 80 mesh. Rock samples were collected in plastic bags and also sent to ACME. Samples were then crushed down to minus 3/16 of an inch, and then a 1/2 pound of the sample is pulverized to minus 100 mesh. A 0.5 gram sample of the minus 80 fraction of all samples was digested in hot, dilute aqua regia in a boiling water bath and then diluted to 10 ml. with distilled water. Samples were analyzed for copper, lead, zinc, arsenic and silver using the Induced Coupled Plasma (ICP) technique. Some of the talus fines samples were also analyzed for antimony. In addition, gold was analyzed from a 10 gram fraction by the conventional Atomic Absorption (AA) technique. Select rock samples were assayed for silver, lead and arsenic using conventional assay methods.

#### 3.3 TREATMENT AND PRESENTATION OF RESULTS

Talus fines and silt sample results were combined with other samples taken from the Bennett Lake Caldera Area in 1988 by Skukum Gold Inc.. Graphical statistical methods were used to separate background from anomalous metal concentration. The data is heavily skewed. Threshold values and anomalous values were determined at the mean plus one standard

deviation (x+1s) and the mean plus two standard deviations (x+2s) respectively. A possibly anomalous category was selected for lead, silver, arsenic and gold based on observed background values and experience. Anomalous sample divisions are presented in Table 3 below.

**TABLE 3: - STATISTICAL SUMMARY OF ANOMALIES**

Mean (x) talus fines	Possibly Anomalous (?)	Threshold x+1s	Anomalous x+2s	Strongly Anomalous x+3s
<b>Cu</b> 30 ppm	100-193	105-179	180-254	255+
<b>Pb</b> 62 ppm		194-325	326-457	458+
<b>Zn</b> 149 ppm		261-372	373-484	485+
<b>As</b> 35 ppm	100-249	250-464	465-679	680+
<b>Ag</b> 0.6 ppm	1.0-2.5	2.6-4.5	4.6-6.5	6.6+
<b>Au</b> 6 ppb	15-29	30-53	54-77	78+
<b>silts</b>				
<b>Cu</b> 20 ppm		37-53	54-70	71+
<b>Pb</b> 30 ppm		51-71	72-92	93+
<b>Zn</b> 112 ppm		174-235	236-297	298+
<b>As</b> 7 ppm		15-22	23-30	31+
<b>Ag</b> 0.5 ppm		0.9-1.2	1.3-1.6	1.7+
<b>Au</b> 2 ppb		5-7	8-10	11+

### 3.4 MINERALIZATION & ROCK GEOCHEMISTRY

Mineralized showings are presented on Map 2.

To date four mineral occurrences have been found on the property by Skukum geologists and one mineral occurrence was found previously.

The largest mineralized zone is known as the HL zone and occurs in a steep north facing cirque in the northern portion of the property. It consists of a series of parallel quartz veins up to 15 cm across. The quartz veins are dark coloured with disseminated sulphides (pyrite - arsenopyrite - chalcopyrite + galena), and occasional massive arsenopyrite. Geochemical analysis of up to 47,739 ppm arsenic, 17,933 ppm copper, 20,999 ppm lead, 2,684 ppm zinc, and 1155 ppb gold have been found. Assays of up to 5.59 ounces per ton (191.7 gm./tonne) silver have also been found. These veins occur sporadically over 300 meters across strike and are traceable for up to 250 meters along strike. The veins strike northeasterly and dip fairly steeply to the southeast. Pervasive propylitic (chlorite-epidote) alteration of the hosting granodiorite up to 1 meter across surrounds the

veins, and thinner silicious alteration up to 0.2 meters envelopes the veins.

The second showing is 300 meters southwest of and 240 meters higher than the HL zone on the ridge above the cirque. It is most probably an extension of the HL zone and consists of quartz and chalcedony veins in silicified rhyolite with disseminated pyrite and arsenopyrite. Geochemical analysis of 11,270 ppm arsenic, 0.8 ppm silver and 139 ppb gold were found.

The third showing is 500 meters due west of the second showing and consists of two float samples; the first sample being a rusty weathered pyrite and arsenopyrite bearing siliceous tuff (2903 ppm arsenic, 1371 ppm copper, 13.6 ppm silver), and the second sample being the contact between a siliceous tuff and a whitish brown granite or rhyolite with galena along the contact (7288 ppm lead, 587 ppm zinc, 2.09 oz./ton or 71.7 gm./tonne silver). This third showing is on strike with the HL zone as well.

A large gossanous zone occurs in some precipitous cliffs across the cirque from the HL zone and might possibly be an extension of this zone and the other two showings.

The fourth showing is a float sample consisting of massive pyrite and magnetite in a carbonate vein. It is anomalous in gold (1015 ppb gold), and is 700 meters south of the HL zone.

A magnetite skarn was found in the central part of the property that was slightly anomalous in zinc and gold.

The Latreille showing was not located by Skukum Gold Inc.'s geologists however supposedly consists of porphyry type quartz - chalcopyrite - bornite - molybdenite - pyrite stringer and breccia veins in felsic tuffs and rhyolite dykes (Doherty & Hart, 1988). Pyritic quartz stringer veins and breccia veins were found in the vicinity of where the Latreille showing was suppose to be.

### **3.5 TALUS FINES GEOCHEMISTRY**

Results are presented in Map 2 in the rear pocket.

There are four main clusters of talus fines anomalies on the claims, as well as two weaker clusters and some spot anomalies.

The first anomaly is centered around the HL zone and consists of four strong multi-element copper + lead + zinc + arsenic + antimony + silver + possible gold anomalies and two weaker copper anomalies. This is to be expected due to the arsenopyrite and chalcopyrite mineralization found in the area.

The second anomaly is located 2.1 kilometers southwest of the HL zone. It consists of four strong mixed lead - zinc - arsenic - silver - gold anomalies and five mixed weaker lead - zinc - arsenic - silver anomalies.

It is speculated that the first two anomalies might possibly be related. Reasons for this include the following;

- 1; Mineralization in the HL zone is striking northeast southwest.
- 2; Between the two anomalies, similar mineralization has been found in three locations along this northeast - southwest trend, including the HL zone.
- 3; The two anomalies are anomalous in similar elements.

The third anomaly is located 800 meters southeast of the second anomaly and is made up of four strong lead - silver + copper + zinc + gold anomalies, and three strong gold anomalies.

The fourth anomaly is located in the southeast portion of the claims and is a cluster of four strong lead - zinc + silver anomalies.

In the east facing cirque on the east side of the claims is a cluster of five weak copper anomalies and another cluster of three weak lead + zinc + possible silver anomalies.

Throughout the claim group are spot anomalies that are predominantly lead and zinc anomalies and the occasional copper, arsenic, silver and gold anomaly. For the most part these anomalies are quite weak. Some of these are related to mapped fault zones.

#### **4. CONCLUSIONS AND RECOMMENDATIONS**

Geological prospecting and mapping as well as stream sediment, talus fines and rock geochemistry was the focus of exploration activity on the PIM group of mineral claims during the summer of 1988. Much of the ground was not completely covered due to the precipitous nature of the terrain, and snow in steep north facing gullies.

The PIM group of mineral claims is a part of the Bennett Lake Caldera Complex. There are numerous epithermal and mesothermal style gold-silver-lead-zinc-arsenic showings within this complex and the potential for similar showings and possible mineral deposits is good.

The most significant showing to date is the HL zone, which consists of a series of parallel quartz veins up to 15 cm.

wide with pyrite, arsenopyrite, chalcopyrite, and galena. Assays of 5.59 ounces per ton (191.7 gm./tonne) silver, and geochemical analysis of 47,739 ppm arsenic, 17,933 ppm copper, 20,999 ppm lead and 1,155 ppb gold have been found in the zone. There are some smaller mineral occurrences which could possibly be related to the HL zone.

Recommendations are as follows;

- 1; Production of a professional 1:5,000 scale orthophoto and contour map for the northern and western portion of the claim block in the vicinity of the HL zone and the anomalies and showings to the southwest.
- 2; Further mapping and prospecting on a 1:5,000 scale in the vicinity of the HL zone and the anomalies and showings to the southwest. Some of this terrain is rather precipitous requiring climbing equipment and climbing geologists.
- 3; Prospecting of the gossan in the cliffs on the west side of the north facing cirque in which the HL zone is located. Again, the area is rather precipitous.
- 4; Follow up prospecting and mapping of the other anomalies on the property.
- 5; Completion of the talus fines sampling and prospecting traverses that were not covered in the 1988 exploration program.

Figure 4 summarizes these recommendations.

SKUKUM GOLD INC.

PIM Y.T. - 1989 WORK  
PROPOSAL MAP

NTS: 105.D-3 SCALE 1:30,000

DATE: OCT/88 DRAWN BY: ALW FIG: #4

x-mineralized showing (aprox.)

■-anomalous geochemistry (aprox.)

○-gossan

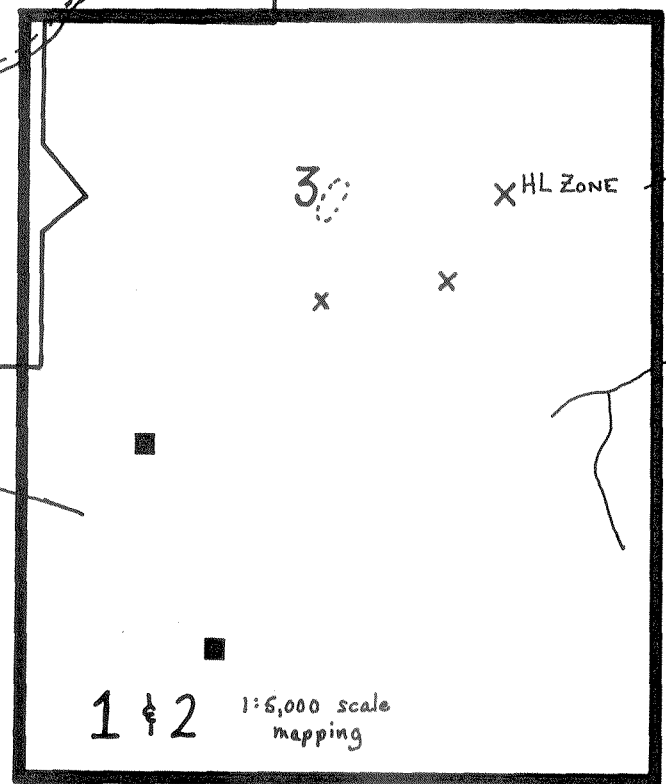
2-reference number for recommendations  
in text

West Arm  
of  
Bennett Lake

Partridge River

Lemieux Creek

N



5. REFERENCES

**Doherty, R.A., & Hart, C.J.R., 1988** Preliminary Geology of Fenwick Creek (105D/3) and Alligator Lake (105D/6) Map Areas; Department of Indian and Northern Affairs Canada; Open File 1988-2, 80pp. With 1:50,000 scale maps.

**G.S.C., 1985** Stream Sediment and Water Geochemical Survey Southern Yukon Territory. GSC Open File 1218 (105 -D).

**Lambert, M.B., 1974** The Bennett Lake Cauldron Subsidence Complex, British Columbia and Yukon Territory; G.S.C. Bulletin 227, 213pp. With 1:25,000 map.

**Wheeler, J.O., 1961** Whitehorse Map Area, Yukon Territory, 105D; Geological Survey of Canada Memoir 312, 156pp.

6. STATEMENT OF EXPENDITURES

Salaries and Camp Costs:

Project Geologist:	8 days @ 265. per day.	\$2120.00
Geologist:	days @ 220. per day.	\$1320.00
Geologist:	days @ 175. per day.	\$1050.00
Field Assistants:	days @ 110. per day.	\$ 990.00
Room and Board:	days @ 50. per day	\$1300.00

Truck Rental:

6 days @ \$60. per day.	\$ 360.00
-------------------------	-----------

Analytical Costs:

Talus Fines:	429 @ \$ 9.85 per sample.	\$4225.65
Silt Samples:	5 @ \$ 9.85 per sample.	\$ 49.25
Rock Samples:	58 @ \$12.00 per sample.	\$ 696.00
Rock Samples (Assays):	7 @ \$ 8.50 per sample.	\$ 59.50
Shipping Costs:		\$ 330.00

Helicopter Costs:

Hughes 500D:	\$4165.10
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Miscellaneous Costs:

\$ 250.00
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TOTAL EXPLORATION COSTS:

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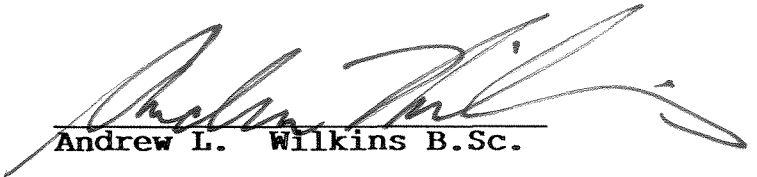
\$16915.50

7. STATEMENT OF QUALIFICATIONS

I, Andrew L. Wilkins, of #314 - 1860 West 2nd. Avenue,  
Vancouver, B.C., certify that:

- 1) I am a graduate of the University of British Columbia with a B.Sc. degree in the geological sciences (1981).
- 2) I have been engaged in the mining exploration industry in British Columbia and the Yukon since 1978.
- 3) I was the project geologist for Skukum Gold Inc.'s regional claims program.
- 4) I was involved with the work performed on the PIM claims in summer of 1988 and am co-author of this report.

Dated this fifteenth day of November, 1988.

  
Andrew L. Wilkins B.Sc.

I, Hugh Francis MacKinnon of P.O. Box 1785, Rossland, B.C.,  
hereby certify that:

- 1) I obtained a Bachelor of Science Degree with Honours in  
Geology from Carleton University, Ottawa, Ontario, in  
1986;
- 2) I have been engaged in mineral exploration since 1980 in  
Ontario, Saskatchewan, The Northwest Territories, British  
Columbia and The Yukon Territory.
- 3) I was involved in the work performed on the PIM 1 - 109  
Claims in 1988, and am co-author of this report.

Dated this fifteenth day of November, 1988

  
Hugh E. MacKinnon, B.Sc.

APPENDIX 1:  
SAMPLE DESCRIPTIONS

SKUKUM GOLD INC.

Property: PIM - YUKON - 4A

Sample	Date	Location	Description
884A-4R1	14 June/88	West end	Brecciated rhyolite dyke with minute quartz veins and pyrite - gossanous.
884A-4R2	14 June/88	"	As above.
884A-4R3	14 June/88	"	As above.
884A-4R4	14 June/88	"	As above.
884A-4R5	14 June/88	"	Extremely gossanous rhyolite dyke, siliceous aphanitic to glassy. Very finely disseminated pyrite. Some sericitic alteration.
884A-4R6	14 June/88	"	As above.
884A-4R7	15 June/88	North end	Manganese oxides and heavy manganese staining on fractures in Tgr (granite). Medium grained equigranular.
884A-4R8	15 June/88	"	Quartz vein in shear zone. Quartz-sericitic alteration, argillic alteration.
884A-4R9	15 June/88	"	Brecciated skarn in shear zone. Pale green colour, calcareous quartz-calcite matrix in fault zone.
884A-4R10	15 June/88	"	Quartz calcite breccia in fault zone. Silicified and gossanous.
884A-4R11	15 June/88	"	3 mm quartz and hematite vein in Tgr proximal to 4R10 breccia zone.
884A-4R12	15 June/88	"	Disseminated and vein pyrite and pyrrhotite in quartz-biotite schist of the Yukon Group.
884A-4R13	07 Sept/88	East facing glacier cirque	Euhedral calcite-hematite-epidote vein and alteration. Zone is approx. 1 m wide. Calcite crystals up to 5 mm; vuggy epidote crystals up to 2 mm, specular hematite crystals up to 1 mm - no magnetite. 045°/62°NW.
884A-4R14	07 Sept/88	"	Marble - white to light grey, weak banding, crystalline calcite up to 2 mm with very fine disseminated impurities - possibly sulphide (dark grey).

SKUKUM GOLD INC.

Property: PIM - YUKON - 4A

Sample	Date	Location	Description
884A-4F1	07 Sept/88	East facing glacier cirque	Massive magnetite and pyrite in a gossanous carbonate vein; 20% magnetite, 10% pyrite.
884A-4R15	08 Sept/88	North end above west arm of Bennett Lake	Shear zone - pervasive chlorite alteration - totally sheared. Azurite-malachite staining and disseminated pyrite. Within shear zone is some poddy quartz veining that is gossanous with finely disseminated pyrite, chalcopyrite, arsenopyrite. Up to 10 cm across.
884A-4R16	08 Sept/88	"	80 cm wide shear zone - slickenslided. Pervasive prophyllitic alteration chlorite and epidote selvages. Malachite-azurite staining - sulphides are hard to spot but include pyrite and arsenopyrite.
884A-4R17	08 Sept/88	"	As above with some green clay alteration as well.
884A-4R18	08 Sept/88	"	1/2 m wide, dark grey to black shear zone with malachite staining throughout. Rock is heavy and contains some grey quartz. 160°/52°W.
884A-4R19	08 Sept/88	Northeast cirque above Bennett Lake; Headbanger Showing	Disseminated arsenopyrite and pyrite in slightly gossanous and pervasive chlorite altered granodiorite. Dark grey - siliceous. 055°/55°SE.
884A-4R20	08 Sept/88	"	As above.
884A-4R21	08 Sept/88	"	Massive arsenopyrite - gossanous and also greenish-coloured arsenic alteration. Massive vein is approx. 5 cm wide with pervasive alteration up to 1/2 m wide. 080°/55°S.
884A-4R22	08 Sept/88	"	Disseminated arsenopyrite in 10 cm wide zone. 075°/55°S.
884A-4R23	08 Sept/88	"	Massive arsenopyrite in 5 cm vein.
884A-4R24	08 Sept/88	"	Disseminated chalcopyrite in gossanous siliceous Kgd.

## SKUKUM GOLD INC.

Property: PIM - YUKON - 4A

Sample	Date	Location	Description
884A-4R25	08 Sept/88	Northeast cirque above Bennett Lake; Headbanger Showing	Gossanous and bleached vein up to 15 cm wide. Argillic-sericitic alteration disseminated sulphide alteration.
884A-4R26	08 Sept/88	"	Two intersecting or related structures with limonite and malachite staining (strong). Sample is not very good as location is rather precarious. 025°/55°NW.
884A-4R27	08 Sept/88	"	Float from above vein. Black siliceous and chloritic alteration with disseminated pyrite and chalcopyrite.
884A-4R28	08 Sept/88	"	Above above zone - managed to climb around. Two parallel veins striking 020°/55°SE. Gossanous, chloritic and siliceous, malachite staining loaded with arsenopyrite, chalcopyrite and pyrite (according to Eric).
884A-10F2	14 June/88	Elev. 5570'	Rusty material granodiorite; 1-2% pyrite.
884A-5F1	14 June/88	Northwest central portion of claims. Elev. 6330'	Rusty weathered, very siliceous, dark grey rhyolite(?) band in lapilli tuff. Trace pyrite; not carbonate altered.
884A-5R1	14 June/88	Elev. 6250'	Similar to 5F1. Very siliceous to cryptocrystalline quartz-rich, very strongly limonite stained with 1-2% fine grained pyrite. Some quartz and chalcedony veining.
884A-5F2	14 June/88	Elev. 5550'	Rusty weathered galena-bearing (3%) rock - contact of a grey-green, very siliceous tuff(?) and a whitish-brown granite(?) or rhyolite(?).
884A-5R2	14 June/88	Elev. 5410'	Chalcedonic to sugary quartz stockwork breccia in a fine grained sheared biotite granite. Host rhyolite bleached whitish-brown to red, some hematitic limonite staining. Veins up to 5 cm wide.

## SKUKUM GOLD INC.

Property: PIM - YUKON - 4A

Sample	Date	Location	Description
884A-5R3	14 June/88	Elev. 5410'	Chalcedony to quartz breccia in bleached medium grained biotite granite. Host strong clay and weak carbonate altered. Zone poorly exposed. Not mineralized.
884A-5R4	16 June/88	Elev. 5970'	Vuggy chalcedonic quartz QFP breccia. Minor sericitic and argillic alteration.
884A-5R5	16 June/88	Elev. 6010'	Strongly sericitized 0.75 m wide rhyolite dyke. Trace pyrite and very thin quartz stringers, 4% 2 mm quartz phenocrysts in a buff to green matrix.
884A-5R6	16 June/88	Elev. 5070'	Rusty weathered rhyolite, very silicified, weakly sericitized. Trace pyrite. 095 <sup>o</sup> /85 <sup>o</sup> S.
884A-10F1	16 June/88	Elev. 6290'	Fine grained pyrite, 2 to 3% pyrite.
884A-10F2		Elev. 5570'	Greyish-blue rhyolite and quartz, rusty weathered granodiorite, 1 to 2% pyrite, chalcopyrite(?).
884A-10R1	16 June/88	Elev. 5680'	Calcite vein, 2 feet wide. Vein was running into talus.
884A-10R2	16 June/88	Elev. 4990'	Silicified granite, rusty weathering, 2 to 3% pyrite.
884A-10F5	07 Sept/88	Elev. 5500'	Quartz float in gully, milk-white. Some disseminated pyrite.
884A-10F6	07 Sept/88	Elev. 5500 200 m from 10F3 on north slope.	Some disseminated pyrite in limestone (marble). Trace grey mineral(?).
884A-10R4	08 Sept/88	Elev. 5500 In bowl.	Quartz vein with arsenopyrite, granular white quartz. Poor exposure. 12 in, 2 feet, vein runs into ridge.
884A-5R8	07 Sept/88	West side east of Lemieux Creek main cirque	malachite-gnetite-quartz-calcite-silicate skarn with 35% fine grain magnetite.
884A-5R8	07 Sept/88	"	Selected skarnoid rock; lime green sericitic(?) cherty magnetite (up to 10%) skarn; serpentine(?)/pyroxene band, calc-silicate marble.
884A-5F3	07 Sept/88	"	Quartz-calcite, coarsely crystalline, vuggy vein, minor wad staining.

APPENDIX 2:  
ANALYTICAL RESULTS

ACME ANALYTICAL LABORATORIES LTD.  
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
 PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: SEP 13 1988

DATE REPORT MAILED: *Sept. 17/88.*

**GEOCHEMICAL ANALYSIS CERTIFICATE**

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

ASSAYER: *C. Leong* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 4A FILE # 88-4455

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
88-4A-4F-1	161	9	149	2.1	148	1015
88-4A-5F-3	1	62	28	.1	5	9
88-4A-7F-1	336	2	65	.8	93	8
88-4A-10F-5	3	7	24	.1	2	15
88-4A-10F-6	5	2	43	.3	44	1
88-4A-4R-13	3	3	30	.9	13	18
88-4A-4R-14	4	6	67	.4	15	4
<i>A</i> 88-4A-4R-15	2234	7015	2049	130.0	3804	68 <i>A.</i>
<i>A</i> 88-4A-4R-16	244	70	128	5.6	15284	139
88-4A-4R-17	320	778	169	18.2	4642	40
88-4A-4R-18	7090	13	153	23.6	57	23
<i>As</i> 88-4A-4R-19	1035	91	1322	17.5	19301	355
<i>As</i> <i>A</i> 88-4A-4R-20	3082	73	1389	38.5	47022	575 <i>A</i>
<i>As</i> <i>A</i> 88-4A-4R-21	3265	285	2684	102.7	47739	1155 <i>A</i>
88-4A-4R-22	348	2613	721	9.4	2454	38
<i>Pb, As</i> <i>A</i> 88-4A-4R-23	1704	20999	779	102.9	47071	147 <i>A</i>
88-4A-4R-24	1407	162	78	15.3	2476	15
88-4A-4R-25	89	481	46	3.4	2181	11
<i>A</i> 88-4A-4R-26	6333	279	262	53.0	995	81 <i>A</i>
88-4A-4R-27	5145	34	143	18.2	9214	63
88-4A-4R-28	799	22	39	3.6	2609	72
88-4A-5R-7	46	27	162	1.3	207	94
88-4A-5R-8	6	4	121	.5	161	1
<i>Cu</i> <i>A</i> 88-4A-10R-4	17933	422	355	180.3	1986	47 <i>A</i>
STD C/AU-R	61	40	131	7.0	44	515

- ASSAY REQUIRED FOR CORRECT RESULT *for Cu Pb As > 10,000 ppm*  
*Ag > 35 ppm*

ACME ANALYTICAL LABORATORIES LTD.

DATE RECEIVED: JUN 21 1988

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE(604)253-3158 FAX(604)253-1716 DATE REPORT MAILED:

*June 29/88*

### GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: P1-P8 SOIL P9 SILT P10 ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

ASSAYER: *C. Leong*. D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT-4A File # 88-2132 Page 1

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
88-4A-4S-1	8	27	97	.1	14	1
88-4A-4S-2	8	22	97	.1	6	1
88-4A-4S-3	7	31	125	.1	12	1
88-4A-4S-4	10	31	108	.1	19	1
88-4A-4S-5	10	65	187	.1	85	1
88-4A-4S-6	9	33	117	.1	43	2
88-4A-4S-7	10	38	105	.2	28	1
88-4A-4S-8	8	27	100	.2	24	1
88-4A-4S-9	7	26	87	.1	26	1
88-4A-4S-10	7	21	88	.1	32	1
88-4A-4S-11	9	24	92	.3	24	1
88-4A-4S-12	16	92	148	.2	25	38
88-4A-4S-13	21	142	145	.2	15	1
88-4A-4S-14	10	48	108	.2	11	1
88-4A-4S-15	8	38	86	.2	8	1
88-4A-4S-16	9	47	109	.1	7	1
88-4A-4S-17	12	41	81	.4	7	1
88-4A-4S-18	11	48	136	.2	2	1
88-4A-4S-19	9	38	74	.4	4	1
88-4A-4S-20	10	54	232	.2	2	1
88-4A-4S-21	12	37	163	.1	2	2
88-4A-4S-22	10	52	217	.1	4	1
88-4A-4S-23	19	34	141	.2	3	1
88-4A-4S-24	19	41	125	.1	4	1
88-4A-4S-25	21	64	229	.3	9	2
88-4A-4S-26	15	64	269	.1	14	1
88-4A-4S-27	13	74	243	.2	9	2
88-4A-4S-28	11	48	167	.1	16	1
88-4A-4S-29	13	79	161	.6	51	1
88-4A-4S-30	23	63	431	.5	43	1
88-4A-4S-31	4	30	117	.1	2	1
88-4A-4S-32	8	30	138	.1	10	1
88-4A-4S-33	10	40	140	.2	18	25
88-4A-4S-34	8	36	154	.2	12	1
88-4A-4S-35	17	60	126	.1	16	37
88-4A-4S-36	8	30	118	.4	17	1
STD C/AU-S	57	36	132	7.1	40	49

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
88-4A-4S-37	9	59	342	.3	45	1
88-4A-4S-38	9	49	253	.1	13	1
88-4A-4S-39	11	65	419	.2	13	1
88-4A-4S-40	14	99	174	.1	28	1
88-4A-4S-41	5	42	155	.1	13	1
88-4A-4S-42	1	24	46	.1	2	1
88-4A-4S-43	2	37	339	.3	2	1
88-4A-4S-44	3	630	163	.2	21	6
88-4A-4S-45	64	37	250	.4	13	2
88-4A-4S-46	100	35	146	.3	43	1
88-4A-4S-47	126	46	377	.7	18	1
88-4A-5S-1	7	194	211	.1	9	1
88-4A-5S-2	2	26	163	.1	2	1
88-4A-5S-3	1	54	185	.1	2	1
88-4A-5S-4	1	13	31	.1	2	1
88-4A-5S-5	1	8	28	.1	6	2
88-4A-5S-6	22	30	194	.4	6	3
88-4A-5S-7	24	73	273	.4	5	2
88-4A-5S-8	89	53	210	.4	11	1
88-4A-5S-9	26	53	148	.3	28	1
88-4A-5S-10	46	48	256	.4	10	1
88-4A-5S-11	4	24	90	.1	23	1
88-4A-5S-12	3	35	67	.1	98	1
88-4A-5S-13	9	45	183	.2	16	1
88-4A-5S-14	10	47	166	.1	9	1
88-4A-5S-15	4	35	98	.1	8	1
88-4A-5S-16	3	45	132	.1	34	3
88-4A-5S-17	8	36	86	.1	20	22
88-4A-5S-18	20	22	130	.1	31	5
88-4A-5S-19	15	21	162	.1	9	1
88-4A-5S-20	21	51	175	.7	14	1
88-4A-5S-21	9	41	103	.1	45	1
88-4A-5S-22	14	63	162	.2	21	5
88-4A-5S-23	7	69	90	.3	28	4
88-4A-5S-24	9	72	110	.4	34	16
STD C/AU-S	58	36	131	7.1	39	53

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
88-4A-5S-25	9	49	88	.2	17	8
88-4A-5S-26	9	46	101	.1	20	2
88-4A-5S-27	10	60	104	.1	22	2
88-4A-5S-28	13	88	113	.4	27	1
88-4A-5S-29	17	96	138	4.8	180	15
88-4A-9S-1	49	85	143	.3	11	2
88-4A-9S-2	48	410	260	1.1	13	9
88-4A-9S-3	51	610	356	1.4	18	12
88-4A-9S-4	10	34	124	.3	25	149
88-4A-9S-5	11	41	127	.6	24	59
88-4A-9S-6	9	29	113	.1	24	11
88-4A-9S-7	9	32	103	.1	26	2
88-4A-9S-8	12	44	114	.3	20	1
88-4A-9S-9	11	48	120	.1	18	2
88-4A-9S-10	12	35	130	.1	23	1
88-4A-9S-11	11	28	88	.1	17	6
88-4A-9S-12	14	35	113	.2	20	9
88-4A-9S-13	15	37	114	.2	13	1
88-4A-9S-14	11	39	121	.3	8	1
88-4A-9S-15	9	54	159	.3	35	9
88-4A-9S-16	11	60	135	.2	27	8
88-4A-9S-17	8	33	118	.1	31	1
88-4A-9S-18	9	32	100	.2	23	2
88-4A-9S-19	9	36	143	.1	15	5
88-4A-9S-20	9	40	109	.1	19	7
88-4A-9S-21	8	49	118	.3	25	2
88-4A-9S-22	9	30	147	.1	7	1
88-4A-9S-23	12	65	136	.1	19	1
88-4A-9S-24	16	64	150	.4	31	1
88-4A-9S-25	14	49	119	.4	17	1
88-4A-9S-26	8	46	110	.3	17	14
88-4A-9S-27	8	44	207	.3	12	1
88-4A-9S-28	9	33	180	.4	13	8
88-4A-9S-29	6	30	120	.2	12	4
88-4A-9S-30	8	39	121	.3	15	1
88-4A-10S-1	23	37	135	.3	27	6
STD C/AU-S	58	41	132	7.1	41	52

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
88-4A-10S-2	18	30	101	.1	99	1
88-4A-10S-3	17	53	208	.3	6	1
88-4A-10S-4	20	33	176	.2	17	1
88-4A-10S-5	16	44	188	.2	6	1
88-4A-10S-6	21	65	358	.3	23	1
88-4A-10S-7	24	64	246	.5	39	1
88-4A-10S-8	30	67	257	.2	25	1
88-4A-10S-9	16	44	132	.1	19	1
88-4A-10S-10	21	65	239	.3	8	1
88-4A-10S-11	12	39	218	.2	9	1
88-4A-10S-12	15	39	362	.2	8	1
88-4A-10S-13	10	27	158	.1	11	1
88-4A-10S-14	13	40	245	.1	17	4
88-4A-10S-15	15	51	249	.2	15	1
88-4A-10S-16	7	96	256	.3	4	1
88-4A-10S-17	10	65	141	.3	60	4
88-4A-10S-18	12	57	157	.1	23	1
88-4A-10S-19	9	48	112	.5	9	3
88-4A-10S-20	9	53	128	.3	7	3
88-4A-10S-21	12	80	197	.2	49	2
88-4A-10S-22	36	293	447	.9	3778	85
88-4A-10S-23	16	97	229	.9	220	4
88-4A-10S-24	12	72	284	.1	105	1
88-4A-10S-25	10	70	164	.3	60	3
88-4A-10S-26	12	59	202	.4	55	1
88-4A-10S-27	16	69	202	.2	46	5
88-4A-10S-28	10	60	144	.2	62	2
88-4A-10S-29	8	30	105	.3	21	1
88-4A-11S-1	15	44	137	.3	11	1
88-4A-11S-2	12	20	85	.2	6	2
88-4A-11S-3	13	29	99	.2	4	1
88-4A-11S-4	12	22	86	.1	4	1
88-4A-11S-5	15	38	117	.5	14	1
88-4A-11S-6	12	43	102	.4	12	1
88-4A-11S-7	17	57	107	.3	12	1
88-4A-11S-8	16	46	125	.3	13	1
STD C/AU-S	58	37	132	7.2	40	49

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
88-4A-11S-9	18	54	131	.2	13	2
88-4A-11S-10	9	55	124	.3	18	1
88-4A-11S-11	9	55	133	.4	16	1
88-4A-11S-12	12	52	117	.1	24	1
88-4A-11S-13	11	55	125	.4	18	1
88-4A-11S-14	18	59	118	.1	14	1
88-4A-11S-15	14	47	120	.1	14	1
88-4A-11S-16	12	44	107	.2	15	2
88-4A-11S-17	12	43	118	.4	14	1
88-4A-11S-18	11	46	110	.2	16	1
88-4A-11S-19	11	45	139	.1	12	1
88-4A-11S-20	16	56	173	.1	15	2
88-4A-11S-21	10	44	151	.3	19	1
88-4A-11S-22	11	13	239	.3	2	1
88-4A-11S-23	12	57	210	.2	17	1
88-4A-11S-24	12	45	302	.3	52	1
88-4A-11S-25	16	53	168	.2	18	1
88-4A-11S-26	13	54	189	.2	25	1
88-4A-11S-27	15	78	109	.1	39	1
88-4A-11S-28	10	42	110	.2	13	1
88-4A-11S-29	10	46	107	.3	22	2
88-4A-11S-30	72	1544	950	4.4	6	1
88-4A-11S-31	33	301	276	1.4	9	1
88-4A-11S-32	40	480	289	.9	4	1
88-4A-11S-33	50	356	314	1.0	2	1
88-4A-11S-34	16	146	152	.3	2	1
88-4A-11S-35	17	48	127	.3	10	1
88-4A-11S-36	20	17	117	.1	3	2
88-4A-11S-37	38	37	123	.2	29	1
88-4A-11S-38	31	39	102	.1	5	7
88-4A-11S-39	30	21	147	.2	10	1
88-4A-11S-40	32	92	258	.4	43	1
88-4A-11S-41	40	77	143	.2	3	1
88-4A-11S-42	39	81	188	.5	11	2
88-4A-11S-43	20	75	166	.3	3	1
88-4A-11S-44	16	27	142	.2	2	1
STD C/AU-S	58	39	132	7.1	40	51

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
88-4A-11S-45	11	22	104	.2	2	6
88-4A-11S-46	42	73	152	.5	2	1
88-4A-11S-47	21	46	177	.2	4	1
88-4A-11S-48	27	43	161	.2	5	1
88-4A-11S-49	16	42	197	.4	2	1
88-4A-11S-50	14	23	149	.1	2	1
88-4A-11S-51	22	55	156	.1	2	1
88-4A-11S-52	13	38	116	.1	2	1
88-4A-11S-53	17	37	125	.2	2	1
88-4A-11S-54	39	403	395	1.5	2	2
88-4A-11S-55	22	134	250	.6	2	1
88-4A-11S-56	18	86	217	.6	2	1
88-4A-11S-57	8	69	101	.3	2	1
88-4A-11S-58	19	39	119	.2	5	1
88-4A-11S-59	17	23	127	.1	3	1
88-4A-11S-60	30	21	101	.2	4	1
88-4A-11S-61	32	29	121	.1	6	1
88-4A-11S-62	35	17	88	.1	6	2
88-4A-11S-63	32	43	140	.3	6	1
88-4A-11S-64	21	29	114	.2	3	2
88-4A-11S-65	55	41	148	.2	4	1
88-4A-11S-66	123	44	193	.3	4	2
88-4A-11S-67	114	25	149	.2	2	1
88-4A-11S-68	84	33	134	.4	3	2
88-4A-11S-69	36	62	209	.4	5	2
88-4A-11S-70	8	59	80	.1	12	1
88-4A-11S-71	10	203	185	.1	4	3
88-4A-11S-72	30	133	170	.2	7	2
88-4A-11S-73	38	155	245	.2	4	1
88-4A-11S-74	25	78	155	.3	7	2
88-4A-11S-75	16	81	141	.1	18	1
88-4A-11S-76	20	164	180	.3	9	1
88-4A-11S-77	12	86	163	.2	44	2
88-4A-11S-78	16	175	257	.5	29	22
88-4A-11S-79	13	138	200	.4	51	2
88-4A-11S-80	10	114	120	.3	16	9
STD C/AU-S	57	42	132	6.7	37	48

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
88-4A-11S-81	13	38	114	.9	19	25
88-4A-11S-82	12	39	110	.5	21	5
88-4A-11S-83	12	37	122	.3	34	13
88-4A-11S-84	11	39	122	.2	36	8
88-4A-11S-85	10	46	120	.3	63	1
88-4A-11S-86	11	73	143	.4	28	1
88-4A-11S-87	13	64	163	.2	28	1
88-4A-11S-88	6	23	103	.1	13	1
88-4A-11S-89	5	33	105	.2	11	2
88-4A-11S-90	5	26	76	.1	14	4
88-4A-11S-91	8	40	160	.2	13	1
88-4A-11S-92	4	23	71	.1	11	1
88-4A-11S-93	8	27	94	.2	11	3
88-4A-11S-94	5	22	78	.1	10	1
88-4A-11S-95	11	47	141	.1	16	1
88-4A-11S-96	8	41	126	.1	13	3
88-4A-11S-97	7	47	131	.1	8	2
88-4A-11S-98	12	48	143	.3	10	1
88-4A-11S-99	9	30	89	.1	13	15
88-4A-11S-100	7	33	128	.1	12	1
88-4A-11S-101	8	35	163	.1	13	4
88-4A-11S-102	8	35	159	.4	16	1
88-4A-11S-103	6	30	104	.2	10	1
88-4A-11S-104	7	33	148	.3	16	6
88-4A-11S-105	5	33	159	.2	14	1
88-4A-11S-106	5	36	160	.1	8	4
88-4A-11S-107	5	40	192	.1	7	5
88-4A-11S-108	10	35	224	.1	5	1
88-4A-11S-109	11	59	244	.2	10	1
88-4A-11S-110	10	49	333	.1	12	2
88-4A-11S-111	8	50	245	1.0	11	1
88-4A-11S-112	17	35	226	.2	8	1
88-4A-11S-113	12	47	174	.1	19	1
88-4A-11S-114	7	39	180	.7	12	2
88-4A-12S-1	7	27	83	.2	7	1
88-4A-12S-2	9	44	127	.1	15	1
STD C/AU-S	57	36	127	7.1	40	50

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
88-4A-12S-3	9	46	107	.6	31	1
88-4A-12S-4	8	41	106	.3	16	1
88-4A-12S-5	8	36	106	.1	16	1
88-4A-12S-6	13	47	96	.1	15	1
88-4A-12S-7	19	67	119	.5	15	2
88-4A-12S-8	13	52	107	.3	6	1
88-4A-12S-9	12	67	142	.2	11	1
88-4A-12S-10	17	57	87	.2	6	1
88-4A-12S-11	19	71	85	.2	8	1
88-4A-12S-12	16	48	103	.6	19	1
88-4A-12S-13	9	32	94	.2	9	1
88-4A-12S-14	8	29	89	.1	10	1
88-4A-12S-15	9	39	119	.1	12	1
88-4A-12S-16	8	31	73	.1	10	1
88-4A-12S-17	8	41	99	.2	12	1
88-4A-12S-18	8	41	117	.2	24	2
88-4A-12S-19	7	28	65	.1	11	1
88-4A-12S-20	9	40	99	.3	10	2
88-4A-12S-21	19	65	124	.3	15	1
STD C/AU-S	59	39	133	6.6	41	51

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
88-4A-4L-1	27	62	224	.6	26	1
88-4A-4L-2	13	26	175	.3	4	1
88-4A-10L-1	9	69	139	.5	28	1
88-4A-11L-1	67	44	208	1.3	16	2
88-4A-11L-2	78	32	247	.7	15	1

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
88-4A-4R-1	41	11	46	.3	5	2
88-4A-4R-2	17	20	75	.5	44	3
88-4A-4R-3	17	21	80	.4	15	4
88-4A-4R-4	6	21	42	.2	17	2
88-4A-4R-5	7	11	4	.1	10	2
88-4A-4R-6	7	19	9	.3	118	2
88-4A-4R-7	10	6	54	.2	2	9
88-4A-4R-8	4	9	6	.1	2	1
88-4A-4R-9	2	45	88	.3	21	11
88-4A-4R-10	3	12	34	.4	5	4
88-4A-4R-11	3	7	40	.2	2	2
88-4A-4R-12	256	17	739	1.9	2	2
88-4A-5R-1	11	14	47	.7	11270	139
88-4A-5R-2	4	18	25	.2	11	3
88-4A-5R-3	3	161	77	.3	31	2
88-4A-5R-4	5	10	39	.1	15	3
88-4A-5R-5	2	20	32	.2	11	1
88-4A-5R-6	11	22	25	.1	225	2
88-4A-10R-1	4	2	13	.2	4	1
88-4A-10R-2	15	33	53	1.4	614	16
88-4A-11R-1	8	34	94	.2	11	1
88-4A-11R-2	4	21	73	.2	19	1
88-4A-12R-1	8	17	11	.1	9	1
88-4A-12R-2	2	20	4	.1	16	2
88-4A-12R-3	5	15	6	.1	13	1
88-4A-12R-4	3	15	3	.2	17	1
88-4A-5F-1	13	8	73	.2	9042	13
88-4A-5F-2	9	7288	587	65.9	42	5
88-4A-10F-1	14	49	68	.8	5847	6
88-4A-10F-2	1370	98	342	13.6	2903	1
88-4A-11F-1	25	24	18	.6	146	6
88-4A-11F-2	15	39	89	.1	22	1
88-4A-11F-3	15	8	18	.1	11	1
88-4A-11F-4	38	9	12	.1	6	1
STD C/AU-R	57	36	128	7.0	39	520

DATE REPORT MAILED: *Sept. 19/88*

### GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: SOIL AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. *P = Pulverized.*

ASSAYER: *C. Leong* D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 4A FILE # 88-4439 Page 1

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
88-4A-5S-30	373	426	176	2.6	13	2	71
88-4A-5S-31	16	49	162	.4	31	2	6
88-4A-5S-32	11	42	138	.4	15	2	2
88-4A-5S-33	28	121	221	1.5	32	2	1
88-4A-5S-34	20	61	152	.7	31	2	2
88-4A-5S-35	54	140	211	.6	24	2	1
88-4A-5S-36	17	119	204	.6	80	2	3
88-4A-5S-37	10	50	132	.3	94	2	1
88-4A-5S-38	16	127	150	1.0	76	2	5
88-4A-5S-39	15	59	167	1.0	755	3	6
88-4A-5S-40	12	50	129	.9	44	2	4
88-4A-5S-41	13	63	133	3.0	41	2	7
88-4A-5S-42	59	1200	2206	.7	8	2	3
88-4A-5S-43	17	136	186	.7	58	2	5
88-4A-5S-44	17	94	152	1.0	39	2	4
88-4A-5S-45	27	206	223	1.4	12	2	3
88-4A-7S-1	10	35	202	.9	2	2	1
88-4A-7S-2	10	45	121	1.6	4	2	4
88-4A-7S-3	17	41	148	1.1	2	2	17
88-4A-7S-4	16	231	277	.9	2	2	1
88-4A-7S-5	22	194	212	1.3	7	2	1
88-4A-7S-6	21	29	217	.9	3	2	1
88-4A-7S-7	13	54	173	.7	3	2	1
88-4A-7S-8	9	23	202	.6	2	3	2
88-4A-7S-9	7	27	203	.7	4	2	2
88-4A-7S-10	8	28	120	.8	6	2	1
88-4A-7S-11	13	23	108	.5	5	2	1
88-4A-7S-12	17	30	148	.7	10	2	1
88-4A-7S-13	11	32	124	.4	2	2	2
88-4A-7S-14	45	34	176	.9	23	2	1
88-4A-7S-15	27	39	142	.8	8	2	5
88-4A-7S-16	17	29	163	.4	2	2	1
88-4A-7S-17	54	38	176	.9	17	2	7
88-4A-7S-18	46	51	234	.9	11	2	36
88-4A-7S-19	61	21	123	.7	9	2	5
88-4A-7S-20	70	69	167	.5	14	3	7
STD C/AU-S	58	39	132	6.7	43	17	49

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
88-4A-7S-21	102	28	141	.5	10	2	15
88-4A-7S-22	121	30	135	.8	35	2	1
88-4A-7S-23	124	37	149	.7	21	2	11
88-4A-7S-24	73	16	104	.5	14	2	13
88-4A-7S-25	214	22	103	.6	18	2	16
88-4A-7S-26	52	24	126	.4	18	2	1
88-4A-7S-27	156	26	143	1.2	10	2	2
88-4A-7S-28	72	31	149	.5	17	2	1
88-4A-7S-29	73	46	167	.8	20	2	1
88-4A-7S-30	15	30	121	.2	14	2	1
88-4A-7S-31	21	57	140	.3	18	2	4
88-4A-7S-32	26	24	138	.4	8	2	2
88-4A-7S-33	17	20	73	.3	55	2	1
88-4A-7S-34	22	26	110	.4	17	2	1
88-4A-7S-35	35	35	130	.4	41	2	2
88-4A-7S-36	19	32	136	.3	14	2	1
88-4A-7S-37	13	28	111	.3	11	2	1
88-4A-7S-38	13	32	122	.4	12	2	1
88-4A-7S-39	16	52	183	.3	16	2	1
88-4A-7S-40	11	48	135	.4	13	2	1
88-4A-7S-41	17	49	160	.9	18	2	2
88-4A-7S-42	9	39	86	.3	9	2	3
88-4A-7S-43	12	53	134	.6	22	2	5
88-4A-7S-44	14	63	148	.5	22	2	2
88-4A-7S-45	10	60	145	.5	15	2	1
88-4A-7S-46	30	122	157	.8	15	2	1
88-4A-7S-47	9	39	120	.4	13	2	2
88-4A-7S-48	15	104	133	.4	21	2	6
88-4A-7S-49	18	147	164	.2	21	2	4
88-4A-7S-50	13	95	133	.5	16	2	1
88-4A-7S-51	24	126	279	.8	16	2	4
88-4A-7S-52	16	107	194	.5	18	2	3
88-4A-7S-53	4	42	133	.4	21	2	2
88-4A-7S-54	9	48	134	.7	34	2	8
88-4A-7S-55	7	30	134	.3	22	2	2
88-4A-7S-56	7	31	126	.2	20	2	1
STD C/AU-S	60	40	132	6.8	40	16	51

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
88-4A-7S-57	10	36	135	.4	13	2	2
88-4A-7S-58	7	44	181	.2	16	2	1
88-4A-7S-59	10	47	158	.3	23	2	2
88-4A-7S-60	10	47	118	.5	14	2	3
88-4A-7S-61	6	35	109	.3	18	2	1
88-4A-7S-62	10	42	125	.4	22	2	1
88-4A-7S-63	5	25	61	.3	11	2	1
88-4A-7S-64	6	38	170	.4	12	2	2
88-4A-7S-65	10	56	191	.4	17	2	2
88-4A-7S-66	5	25	86	.3	17	2	3
88-4A-10S-30	5	36	109	.2	7	2	1
88-4A-10S-31 P	5	16	83	.1	9	2	1
88-4A-10S-32	8	52	141	.5	14	2	2
88-4A-10S-33	11	72	126	.7	135	2	6
88-4A-10S-34	11	70	135	.5	32	2	4
88-4A-10S-35 P	6	23	98	.3	16	2	5
88-4A-10S-36	8	41	100	.2	22	2	12
88-4A-10S-37	9	64	116	.6	49	3	11
88-4A-10S-38 P	8	33	109	.3	32	2	1
88-4A-10S-39	9	47	90	.6	29	2	2
88-4A-10S-40	11	45	133	.5	136	2	5
88-4A-10S-41 P	6	14	89	.2	19	2	1
88-4A-10S-42	14	45	96	.5	19	2	1
88-4A-10S-43 P	8	20	86	.2	16	2	1
88-4A-10S-44	9	34	113	.3	23	2	2
88-4A-10S-45	11	56	147	1.1	42	2	4
88-4A-10S-46	11	48	109	.4	27	3	1
88-4A-10S-47	9	36	112	.6	19	3	2
88-4A-10S-48	10	37	104	.5	24	2	98
88-4A-10S-49	47	905	396	2.7	15	2	29
88-4A-10S-50	65	106	128	.8	12	3	1
88-4A-10S-51	42	107	134	1.4	14	2	3
88-4A-10S-52	15	64	133	.6	37	2	1
88-4A-10S-53	10	46	172	.5	39	2	1
88-4A-10S-54	9	49	144	.7	61	2	6
88-4A-10S-55	12	43	138	.6	84	2	4
STD C/AU-S	61	40	132	6.8	42	17	49

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
88-4A-10S-56 P	8	28	74	.2	8	2	1
88-4A-10S-57	13	46	140	.8	10	2	16
88-4A-10S-58	7	82	153	.6	31	3	18
88-4A-10S-59	4	38	170	.2	27	2	8
88-4A-10S-60	10	32	168	.5	134	2	11
88-4A-10S-61	8	48	214	.6	9	2	2
88-4A-10S-62	6	19	107	.4	5	2	1
88-4A-10S-63	9	25	157	.4	5	2	1
88-4A-10S-64	9	32	169	.4	10	2	1
88-4A-10S-65	9	34	108	.4	8	2	2
88-4A-10S-66	7	31	187	.4	11	2	1
88-4A-10S-67	8	44	168	.7	12	2	1
88-4A-10S-68	4	31	102	.7	10	3	1
88-4A-10S-69 P	7	15	75	.2	4	2	1
88-4A-10S-70	13	54	145	.7	12	2	3
88-4A-10S-71	61	341	295	4.1	181	2	7
88-4A-10S-72	46	176	232	3.2	454	3	28
88-4A-10S-73 P	9	14	82	.2	5	2	2
88-4A-10S-74	10	57	134	.6	12	3	150
88-4A-10S-75	16	53	167	.7	12	2	3
88-4A-10S-76	29	62	185	.9	72	2	4
88-4A-10S-77	16	53	158	.7	5	2	2
88-4A-10S-78	12	65	122	.9	6	2	6
88-4A-10S-79	14	86	130	1.0	10	2	7
88-4A-10S-80 P	6	18	90	.3	15	2	1
88-4A-10S-81 P	5	22	104	.1	16	2	1
88-4A-10S-82	14	63	124	.3	22	2	1
88-4A-10S-83 P	10	21	85	.3	7	3	1
88-4A-10S-84	32	73	120	.9	16	2	2
88-4A-10S-85	37	70	112	1.3	11	2	1
88-4A-10S-86 P	14	24	95	.4	17	3	1
88-4A-10S-87	14	44	141	.6	21	3	2
88-4A-10S-88	18	54	115	.6	18	3	5
88-4A-10S-89	28	95	139	1.0	45	3	4
88-4A-10S-90	9	50	136	.4	42	2	6
88-4A-10S-91	16	91	139	.5	82	3	8
STD C/AU-S	57	38	132	7.1	42	17	49

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Sb PPM	Au* PPB
88-4A-10S-92	3	20	97	.1	5	2	1
88-4A-10S-93	4	23	90	.1	3	2	1
88-4A-10S-94	4	14	75	.3	4	2	1
88-4A-10S-95	9	28	148	.1	11	2	1
88-4A-10S-96	13	34	149	.1	15	2	1
88-4A-10S-97	16	35	135	.3	6	2	1
88-4A-10S-98	141	45	149	.4	9	2	1
88-4A-10S-99	501	56	131	1.5	51	2	7
88-4A-10S-100	148	86	161	.9	55	2	1
88-4A-10S-101	526	297	244	2.5	744	3	21
88-4A-10S-102	40	99	219	.5	60	2	23
88-4A-10S-103	26	57	141	.5	26	2	17
88-4A-10S-104	2543	8373	1637	84.2	45358	194	26
88-4A-10S-105	15	58	123	.5	160	2	12
88-4A-10S-106	143	65	65	1.8	537	4	16
STD C/AU-S	58	40	132	7.1	42	17	47

ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 8 1988

DATE REPORT MAILED: *Nov. 15/88*

### ASSAY CERTIFICATE

AG\*\* BY FIRE ASSAY FROM 1 A.T.  
- SAMPLE TYPE: Pulp

SIGNED BY *C. Long* . D.TOVE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT-4A FILE # 88-2132R

SAMPLE#	Ag** OZ/T
88-4A-5F-2	2.09

ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 8 1988  
DATE REPORT MAILED: ..Nov.17/88..

**ASSAY CERTIFICATE**

- SAMPLE TYPE: Pulp AG\*\* BY FIRE ASSAY FROM 1 A.T.

SIGNED BY.....*C. Long* D.TOYE, C.LEONG, B.CHAN, J.WANG; CERTIFIED B.C. ASSAYERS

SKUKUM GOLD INC. PROJECT 4A FILE # 88-4455R

SAMPLE#	Ag** OZ/T
88-4A-4R-15	4.03
88-4A-4R-20	1.27
88-4A-4R-21	3.26
88-4A-4R-23	3.24
88-4A-4R-26	1.58
88-4A-10R-4	5.59

APPENDIX 3:  
STATISTICAL SUMMARY

ACME ANALYTICAL LABS - STATISTICAL SUMMARY

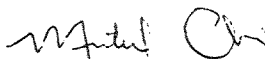
October 17, 1988

To: Skukum Gold Inc  
Project : 4A,4B,4C,4D,4E,4F,4G

<u>ELEMENT</u>	<u>SAMPLE NAME</u>	<u>VALUE</u>	<u>SAM. REMOVED</u>	<u>NEW TOTAL</u>
Cu,Zn	none	none	0	1867
Pb	88-4E-10S11	15358		
	88-4A-10S104	8373	2	1865
As	88-4A-10S104	45358	1	1866
AU*	88-4D-5S37	770		
	88-5A-9S-11	660		
	88-4E-12S28	620		
	88-4F-11S8	475	4	1863
Ag	88-4D-5S37	176.5		
	88-4D-4S45	142.5		
	88-4D-4S46	118.5		
	88-4D-4S44	114.3		
	88-4D-4S42	93.7		
	88-4A-10S104	84.2		
	88-4D-4S43	57.0	7	1860

As per our phone discussion on October 14, 1988, the preceeding samples were considered "non-typical" and thus were removed from the data list. Even though the sample had a high value in one element, it was still included in the data in other elements unless otherwise stated. For Cu and Zn there were no samples that needed to be removed. In Pb, two really high samples were removed. In Ag, samples over 40 PPM were removed. In As, one really high sample was removed. In Au\* samples over 400 PPB were removed. I hope the resulting statistical work is more suitable for your work.

Sincerely yours,



Michael Choi

ACME ANALYTICAL LABS - STATISTICAL SUMMARY

October 13, 1988

To: Skukum Gold Inc  
Project : 4A, 4B, 4C, 4D, 4E, 4F, 4G

<u>FILE NUMBER</u>	<u># PAGES</u>	<u>#SOIL SAMPLES</u>	<u>#SILT SAMPLES</u>
88-1778	1	1	
88-1858	1-9	278	24
88-1964	1-8	236	2
88-2051	1-7	189	5
88-2052	1	1	
88-2132	1-9	270	5
88-2266	1-4	128	
88-2267	1-2	61	
88-2413	1-5	123	3
88-2414	1-3	91	
88-2415	1-5	116	5
88-2601	1-2	54	
88-4439	1-5	159	
88-4440	1-4	89	
88-4840	1-2	71	
TOTAL SOIL SAMPLES -		1867	
		TOTAL SILT SAMPLES -	44

As requested on October 12, 1988, the preceeding files were used as a basis for statistical work. The soil and silt samples were separated and done separately. The following elements were used as data points:

Cu, Pb, Zn, Ag, As and Au\*

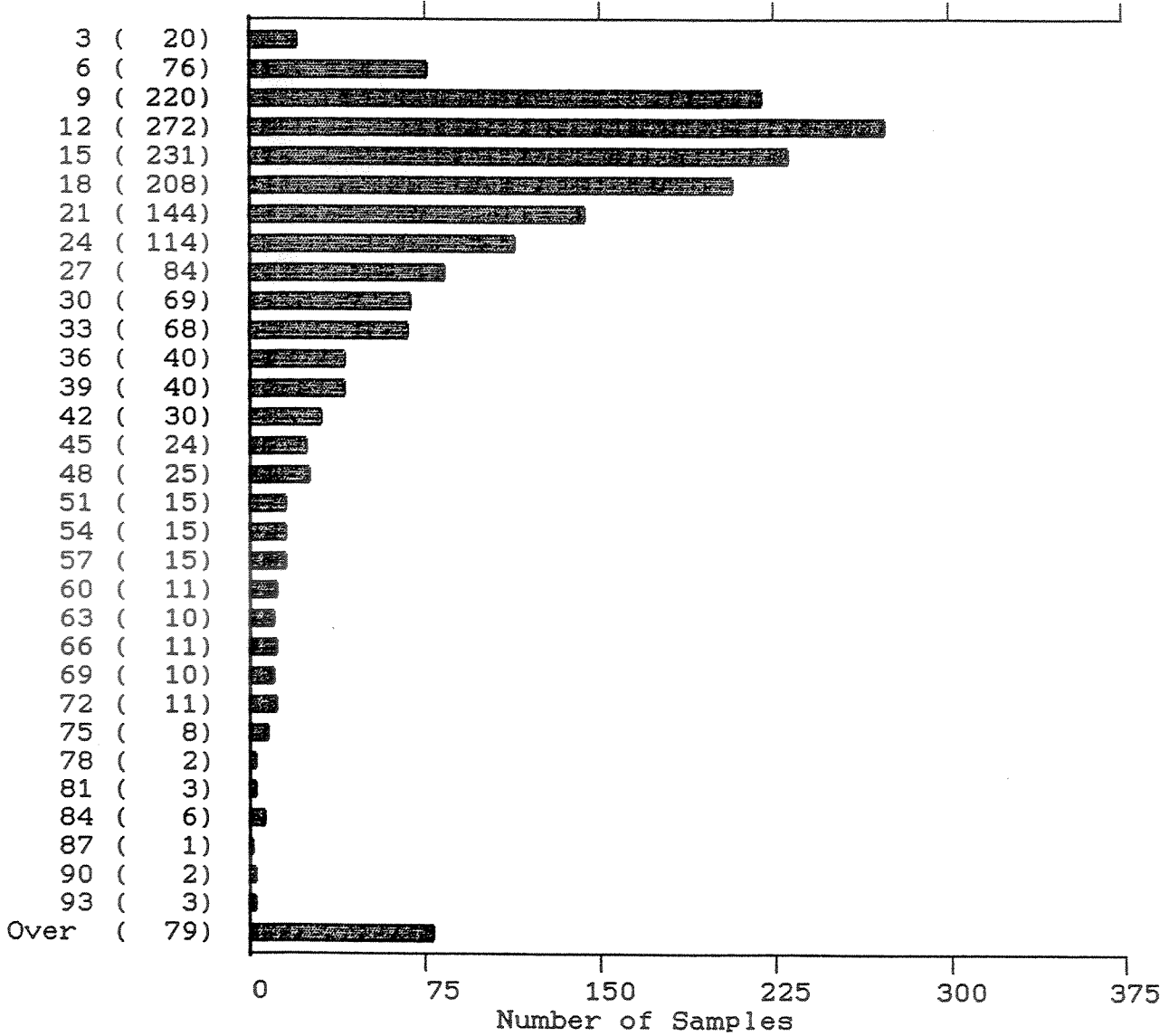
Sincerely yours,

*Michael Choi*

Michael Choi

SKUKUM GOLD (S (SOIL) SERIES)

Cu  
(PPM)



1867 Samples

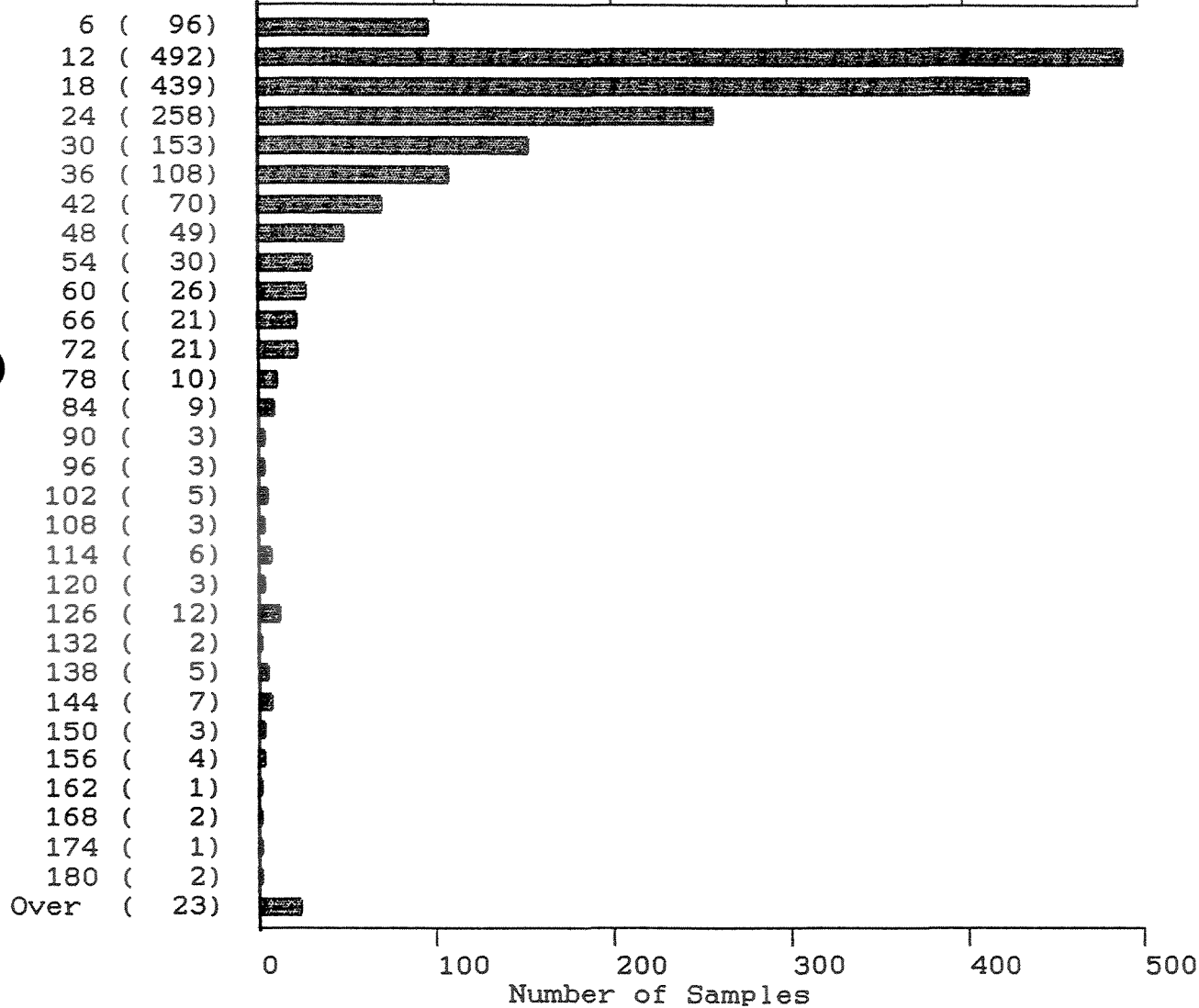
Maximum: 2543  
Minimum: 1

Mean: 30  
Median: 17  
Standard Deviation: 75

## SKUKUM GOLD (S (SOIL) SERIES)

---

Cu  
(PPM)



1867 Samples

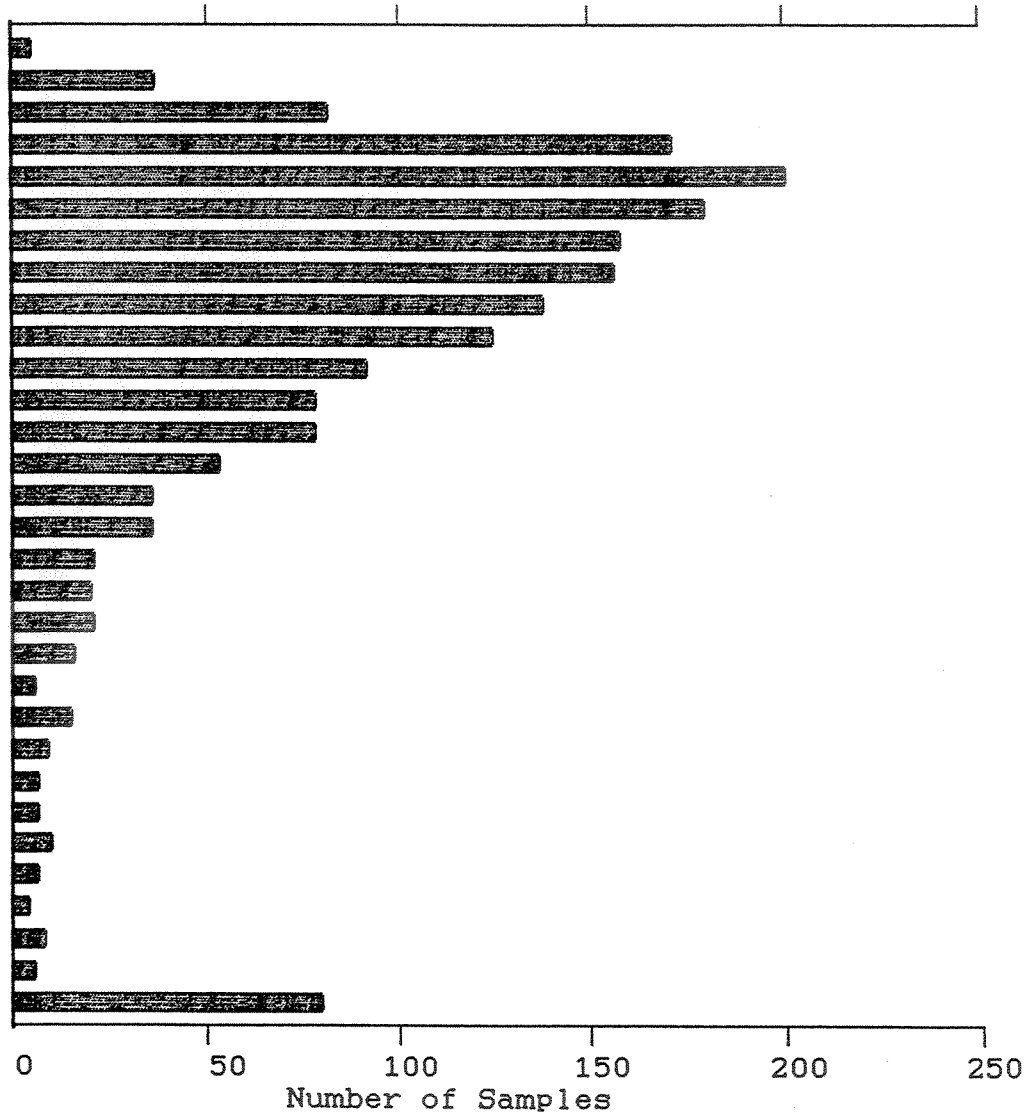
Maximum: 2543  
Minimum: 1

Mean: 30  
Median: 17  
Standard Deviation: 75

SKUKUM GOLD (S (SOIL) SERIES)

Pb  
(PPM)

5 ( 5)  
 10 ( 37)  
 15 ( 82)  
 20 ( 172)  
 25 ( 201)  
 30 ( 180)  
 35 ( 158)  
 40 ( 157)  
 45 ( 138)  
 50 ( 125)  
 55 ( 92)  
 60 ( 78)  
 65 ( 78)  
 70 ( 53)  
 75 ( 36)  
 80 ( 36)  
 85 ( 21)  
 90 ( 20)  
 95 ( 21)  
 100 ( 16)  
 105 ( 6)  
 110 ( 15)  
 115 ( 9)  
 120 ( 7)  
 125 ( 7)  
 130 ( 10)  
 135 ( 7)  
 140 ( 4)  
 145 ( 8)  
 150 ( 6)  
 Over ( 80)



1865 Samples

Maximum: 2646

Minimum: 2

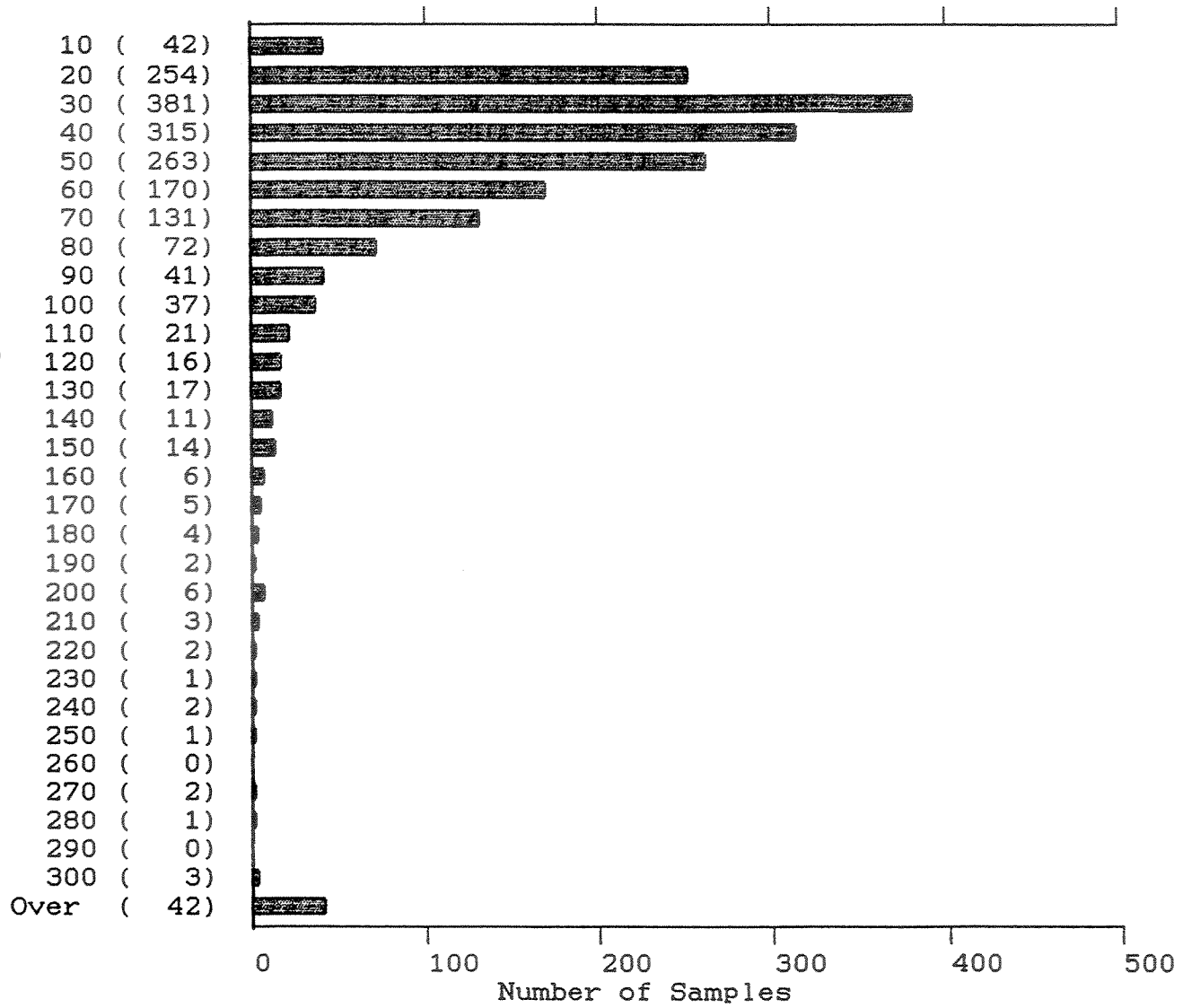
Mean: 62

Median: 38

Standard Deviation: 132

SKUKUM GOLD (S (SOIL) SERIES)

Pb  
(PPM)



1865 Samples

Maximum: 2646

Mean: 62

Minimum: 2

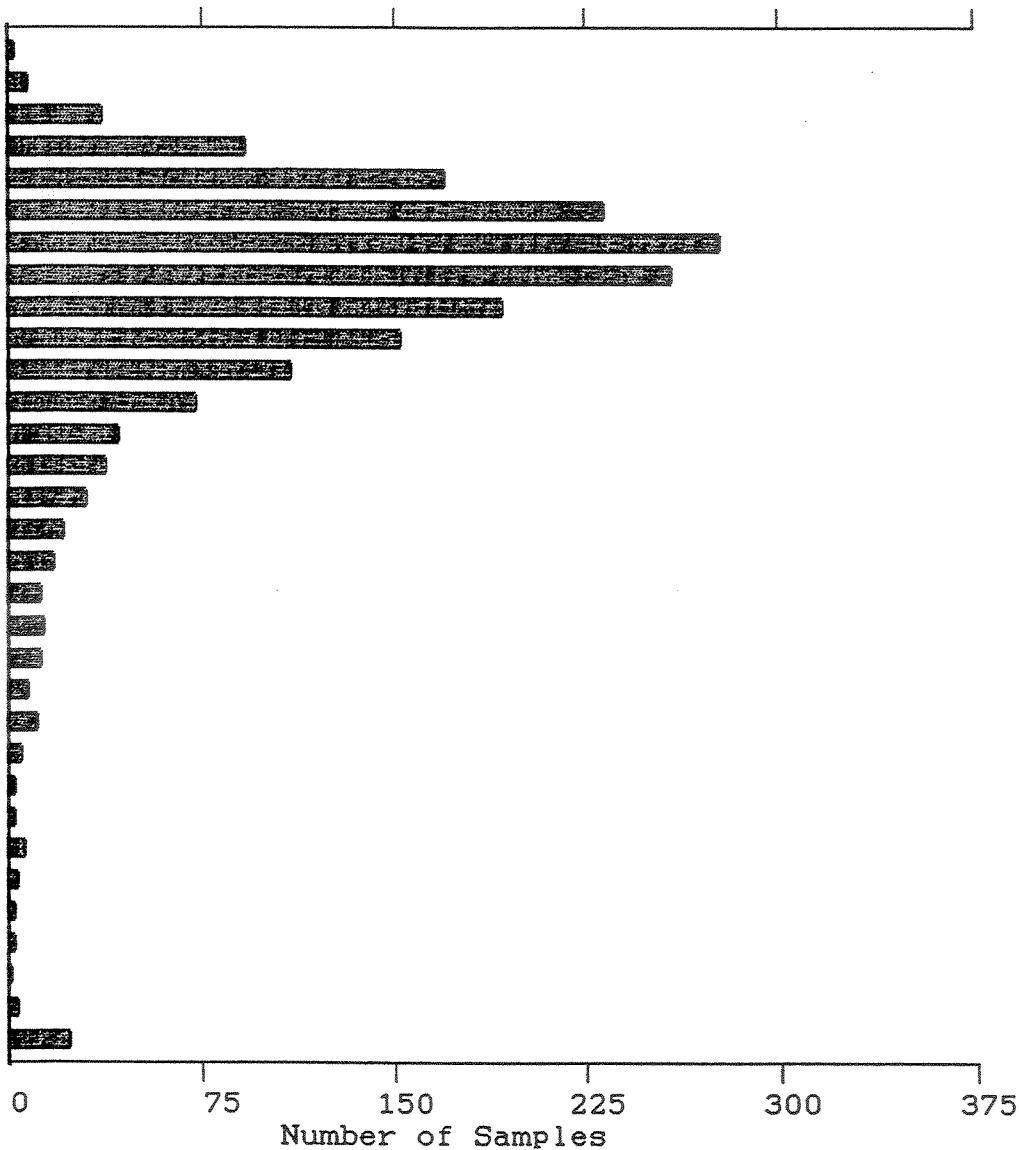
Median: 38

Standard Deviation: 132

SKUKUM GOLD (S (SOIL) SERIES)

Zn  
(PPM)

30 ( 3)  
 45 ( 7)  
 60 ( 36)  
 75 ( 92)  
 90 ( 170)  
 105 ( 233)  
 120 ( 278)  
 135 ( 259)  
 150 ( 193)  
 165 ( 153)  
 180 ( 110)  
 195 ( 73)  
 210 ( 42)  
 225 ( 38)  
 240 ( 30)  
 255 ( 21)  
 270 ( 17)  
 285 ( 13)  
 300 ( 14)  
 315 ( 12)  
 330 ( 7)  
 345 ( 11)  
 360 ( 5)  
 375 ( 3)  
 390 ( 2)  
 405 ( 6)  
 420 ( 4)  
 435 ( 3)  
 450 ( 3)  
 465 ( 1)  
 480 ( 4)  
 Over ( 24)



1867 Samples

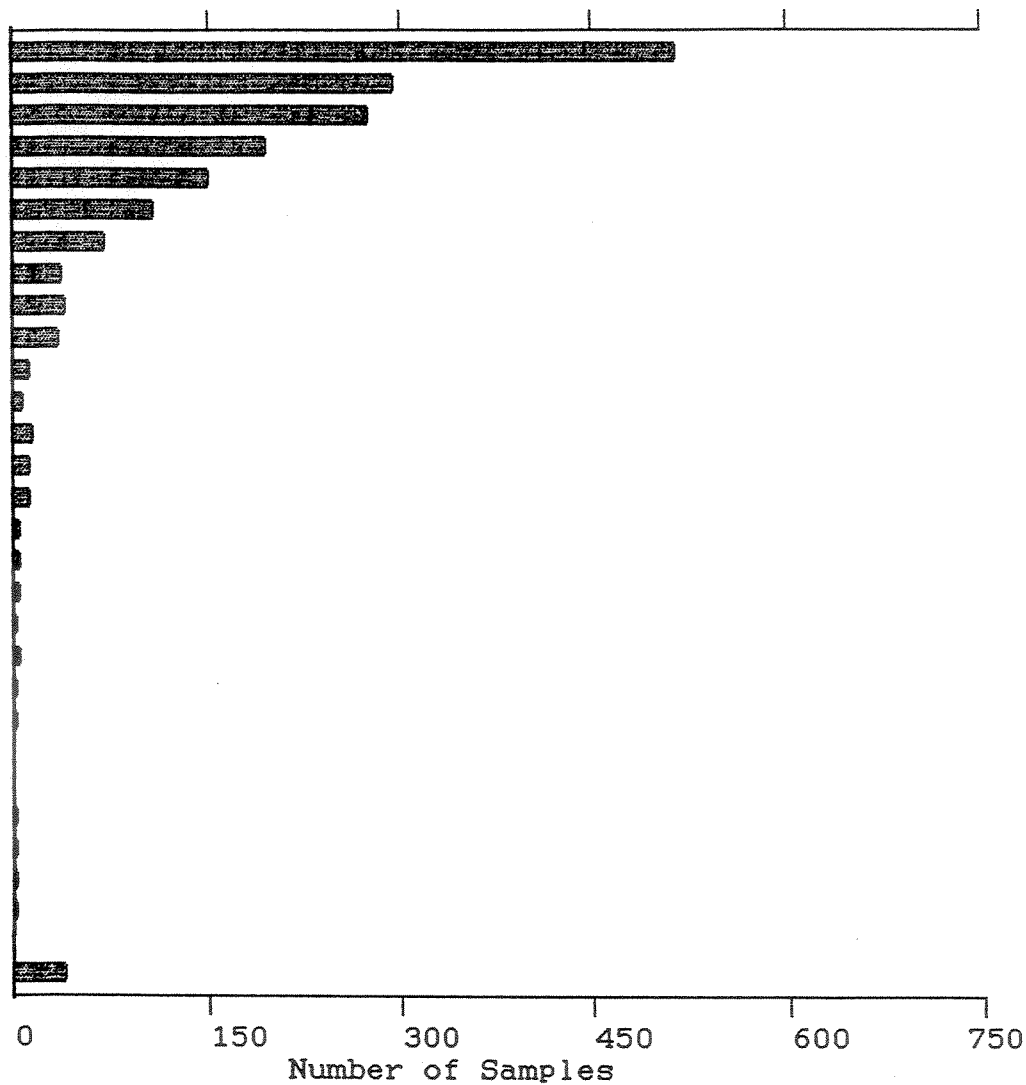
Maximum: 2206  
 Minimum: 28

Mean: 149  
 Median: 127  
 Standard Deviation: 112

# SKUKUM GOLD (S (SOIL) SERIES)

Ag  
(PPM)

0.1 ( 515)  
 0.2 ( 294)  
 0.3 ( 276)  
 0.4 ( 195)  
 0.5 ( 149)  
 0.6 ( 107)  
 0.7 ( 70)  
 0.8 ( 37)  
 0.9 ( 40)  
 1.0 ( 36)  
 1.1 ( 13)  
 1.2 ( 8)  
 1.3 ( 15)  
 1.4 ( 13)  
 1.5 ( 13)  
 1.6 ( 6)  
 1.7 ( 5)  
 1.8 ( 6)  
 1.9 ( 2)  
 2.0 ( 4)  
 2.1 ( 3)  
 2.2 ( 3)  
 2.3 ( 0)  
 2.4 ( 0)  
 2.5 ( 3)  
 2.6 ( 3)  
 2.7 ( 2)  
 2.8 ( 2)  
 2.9 ( 0)  
 Over ( 40)



1860 Samples

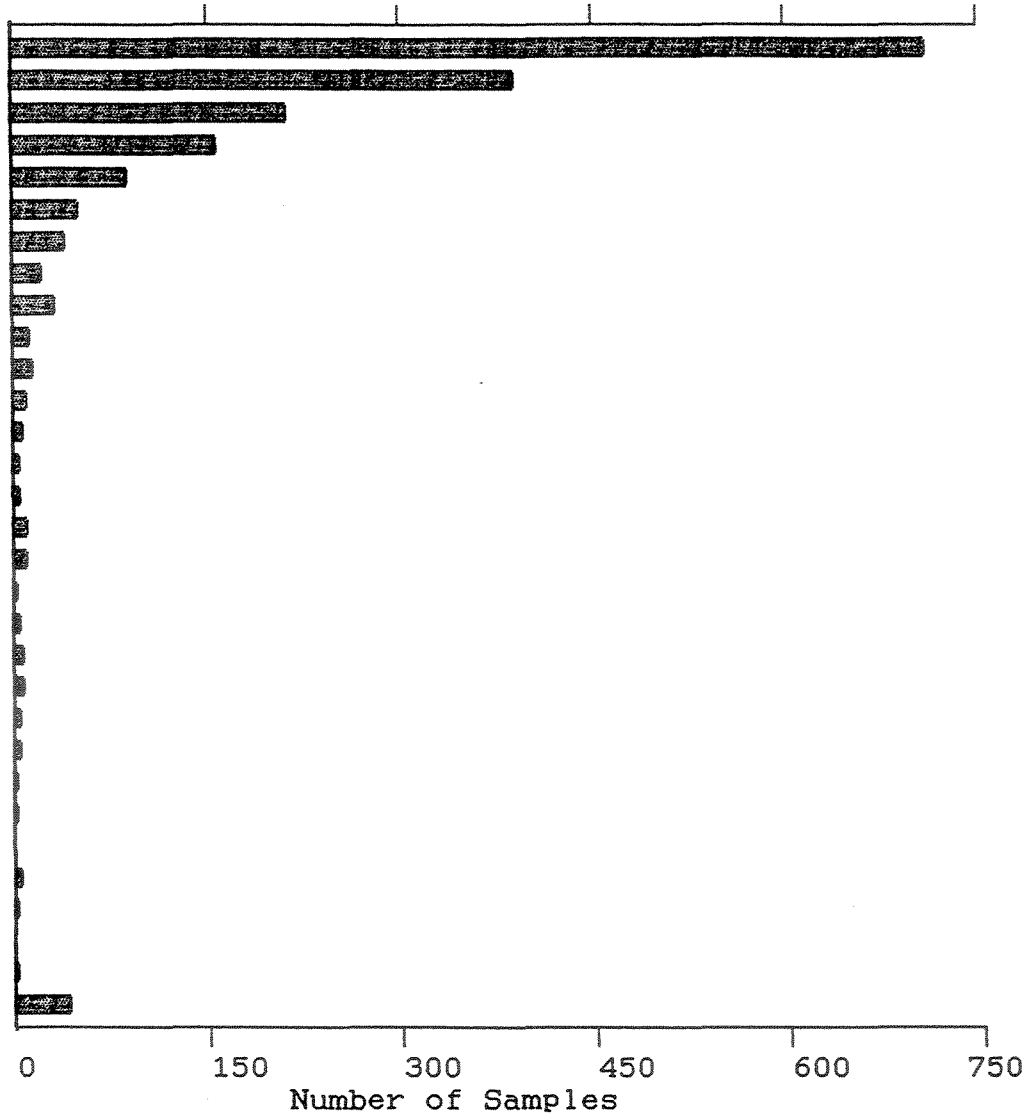
Maximum: 36.8  
 Minimum: 0.1

Mean: 0.6  
 Median: 0.3  
 Standard Deviation: 2.0

SKUKUM GOLD (S (SOIL) SERIES)

As  
(PPM)

5 ( 711)  
 10 ( 390)  
 15 ( 213)  
 20 ( 158)  
 25 ( 87)  
 30 ( 49)  
 35 ( 40)  
 40 ( 22)  
 45 ( 32)  
 50 ( 13)  
 55 ( 16)  
 60 ( 9)  
 65 ( 8)  
 70 ( 4)  
 75 ( 6)  
 80 ( 9)  
 85 ( 9)  
 90 ( 2)  
 95 ( 4)  
 100 ( 7)  
 105 ( 7)  
 110 ( 6)  
 115 ( 6)  
 120 ( 2)  
 125 ( 3)  
 130 ( 1)  
 135 ( 4)  
 140 ( 2)  
 145 ( 1)  
 150 ( 3)  
 Over ( 42)



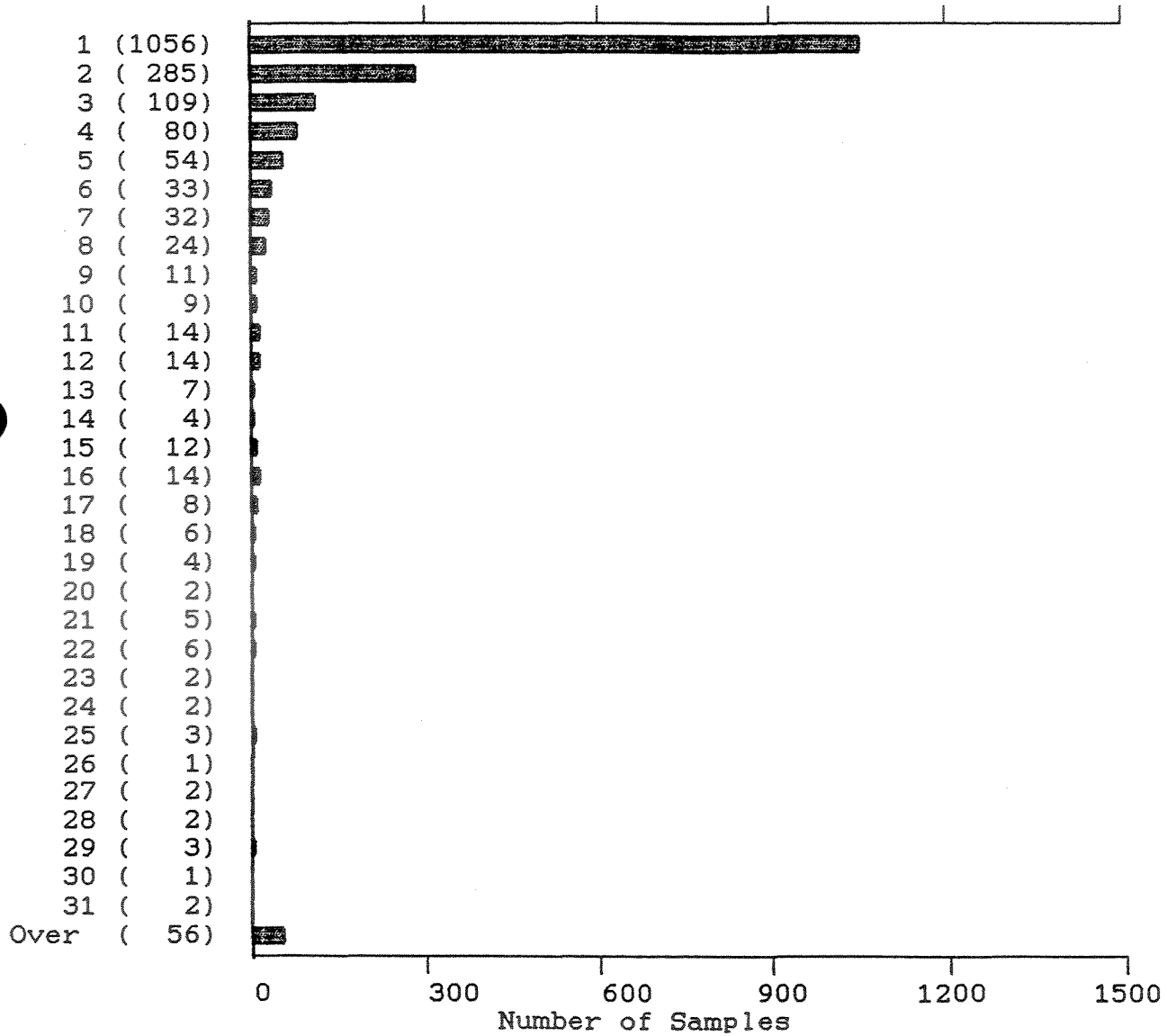
1866 Samples

Maximum: 4288  
 Minimum: 2

Mean: 35  
 Median: 8  
 Standard Deviation: 215

SKUKUM GOLD (S (SOIL) SERIES)

AU\*  
(PPB)



1863 Samples

Maximum: 390

Minimum: 1

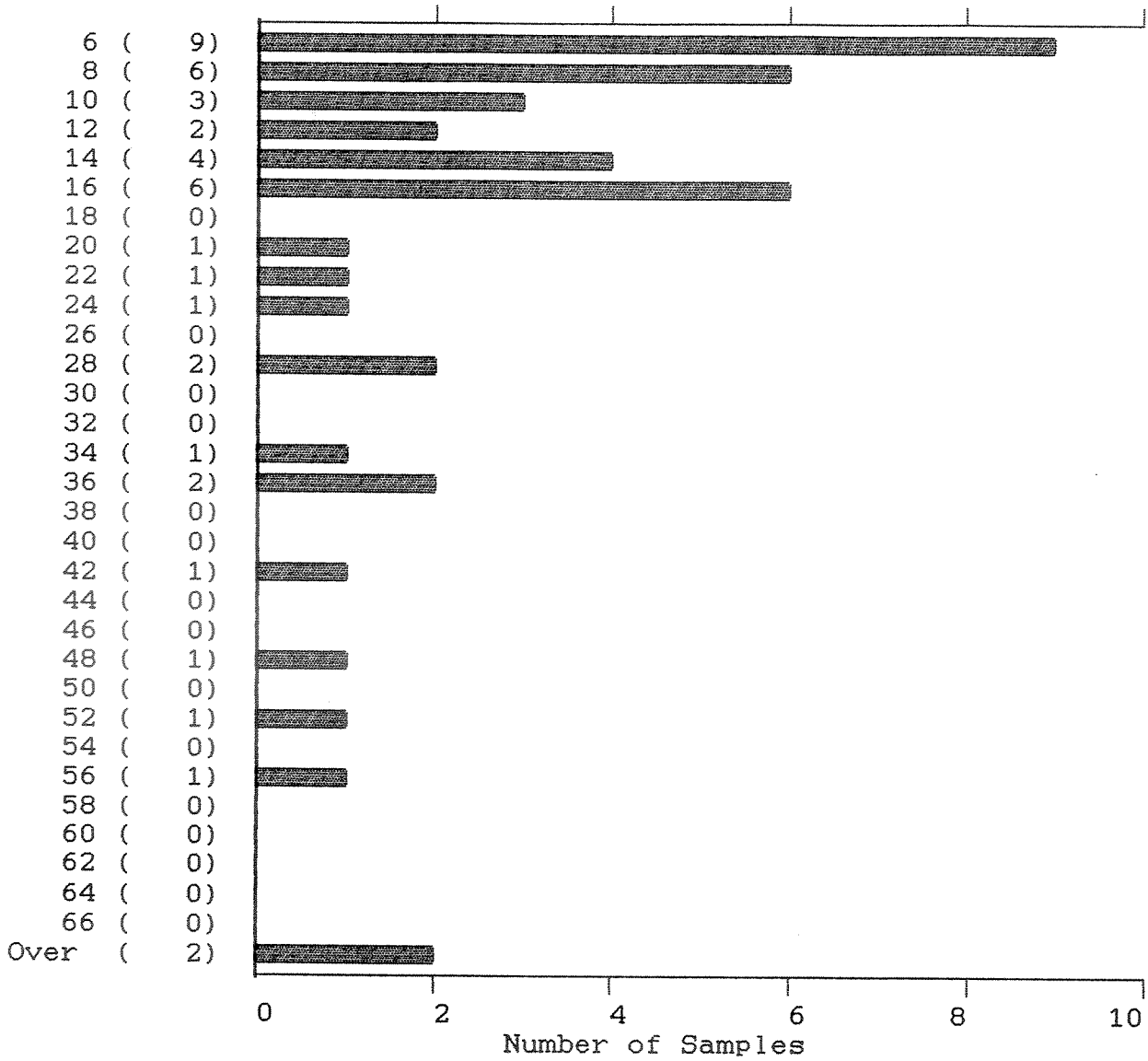
Mean: 6

Median: 1

Standard Deviation: 24

SKUKUM GOLD (L (SILT) SERIES)

Cu  
(PPM)



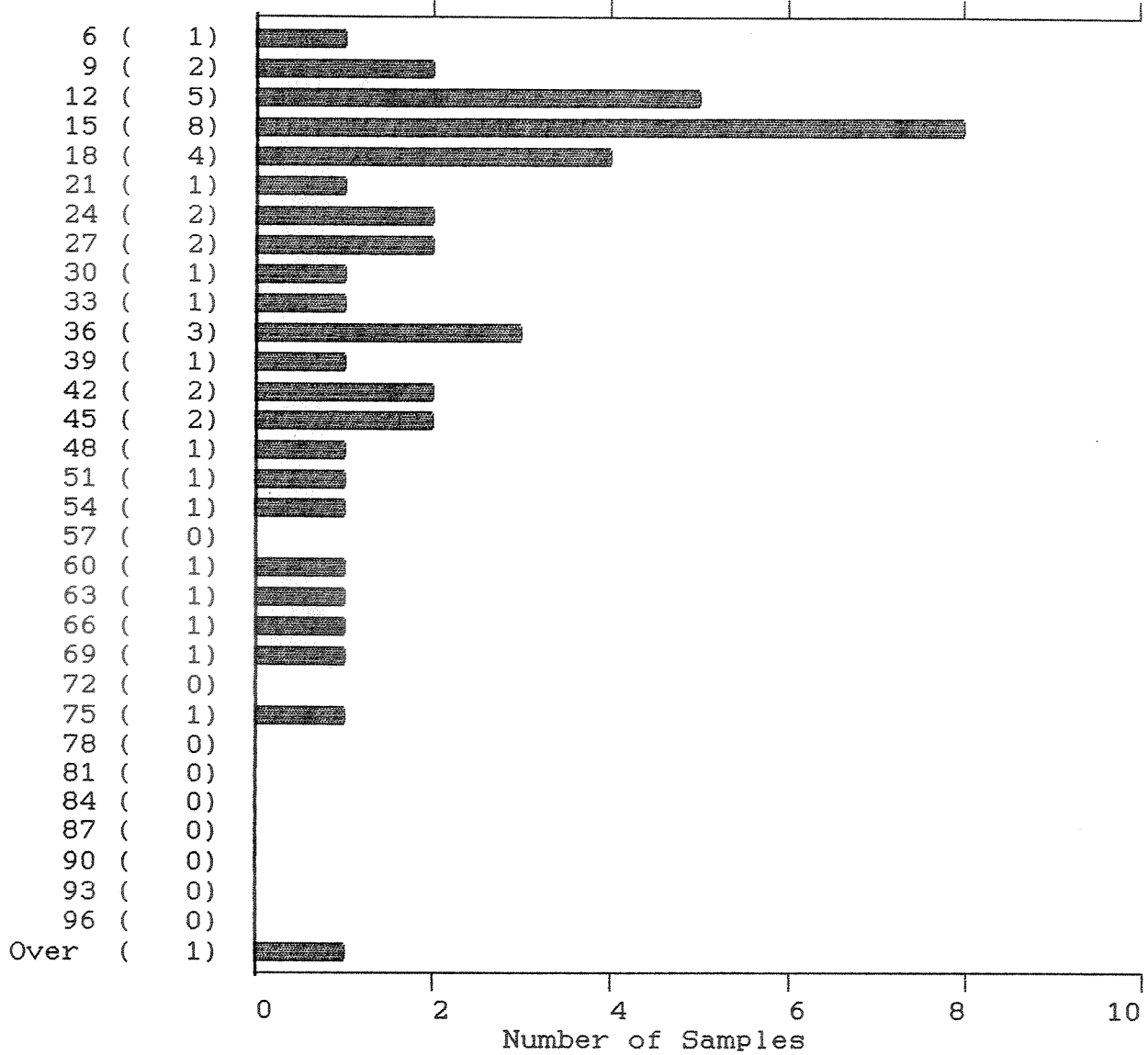
44 Samples

Maximum: 78  
Minimum: 5

Mean: 20  
Median: 13  
Standard Deviation: 17

SKUKUM GOLD (L (SILT) SERIES)

Pb  
(PPM)



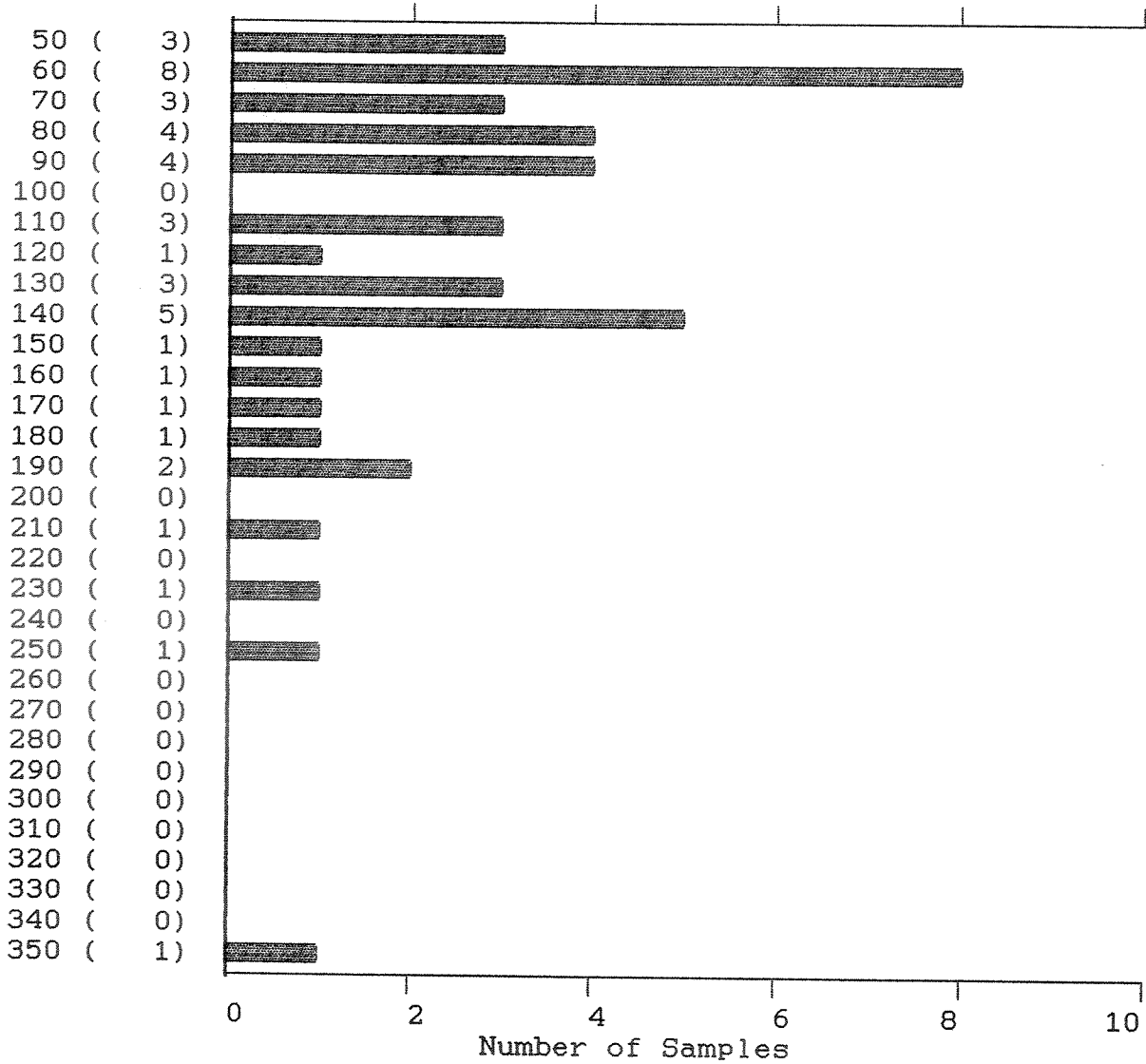
44 Samples

Maximum: 98  
Minimum: 6

Mean: 30  
Median: 23  
Standard Deviation: 21

SKUKUM GOLD (L (SILT) SERIES)

Zn  
(PPM)



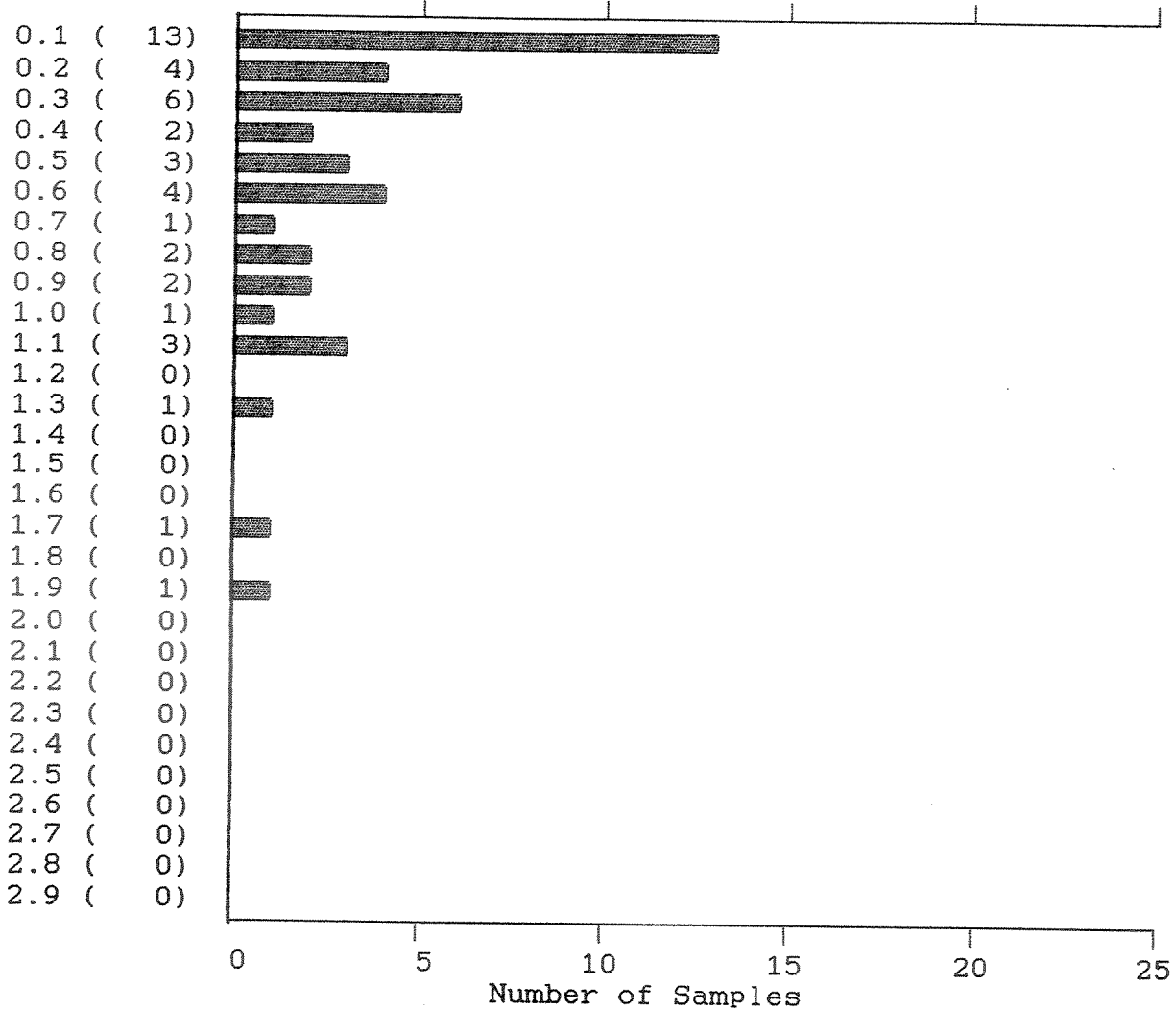
44 Samples

Maximum: 342  
Minimum: 49

Mean: 112  
Median: 90  
Standard Deviation: 62

SKUKUM GOLD (L (SILT) SERIES)

Ag  
(PPM)



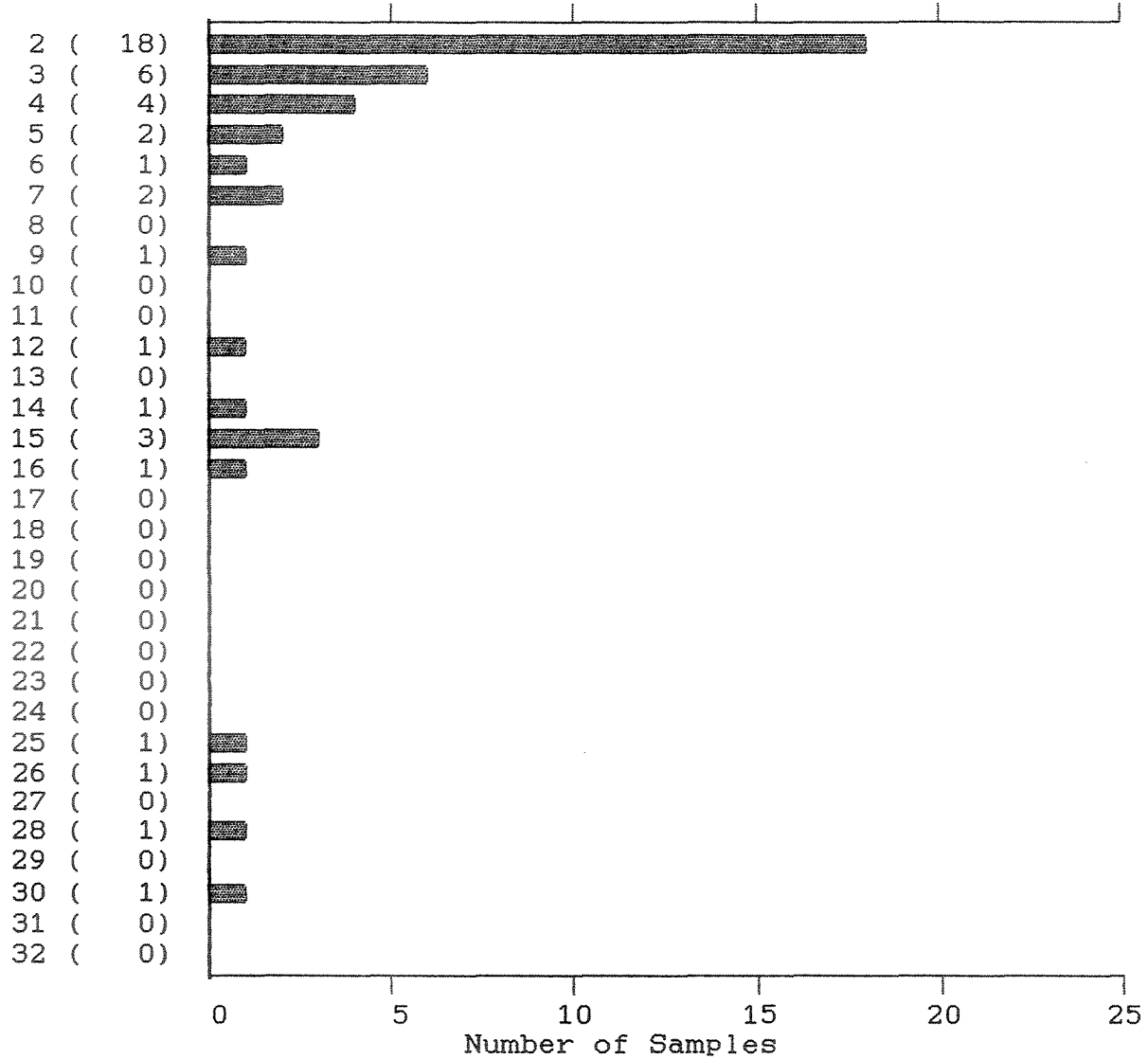
44 Samples

Maximum: 1.9  
Minimum: 0.1

Mean: 0.5  
Median: 0.3  
Standard Deviation: 0.4

SKUKUM GOLD (L (SILT) SERIES)

As  
(PPM)



44 Samples

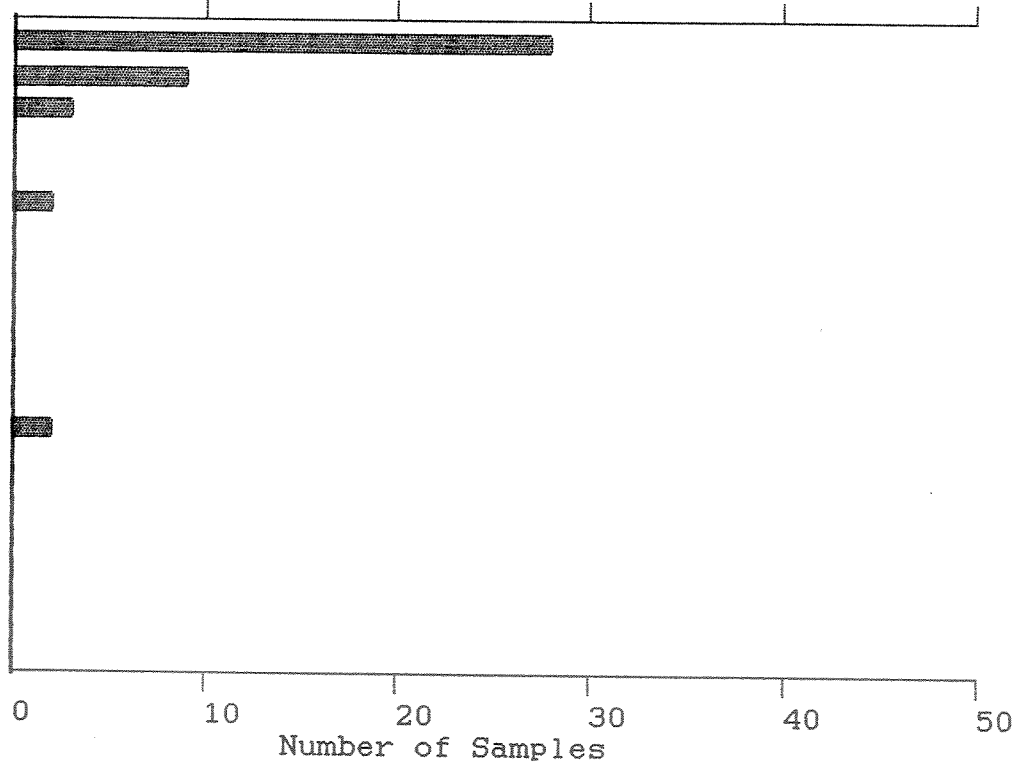
Maximum: 30  
Minimum: 2

Mean: 7  
Median: 3  
Standard Deviation: 8

SKUKUM GOLD (L (SILT) SERIES)

AU\*  
(PPB)

1 ( 28)  
2 ( 9)  
3 ( 3)  
4 ( 0)  
5 ( 0)  
6 ( 2)  
7 ( 0)  
8 ( 0)  
9 ( 0)  
10 ( 0)  
11 ( 0)  
12 ( 0)  
13 ( 2)  
14 ( 0)  
15 ( 0)  
16 ( 0)  
17 ( 0)  
18 ( 0)  
19 ( 0)  
20 ( 0)

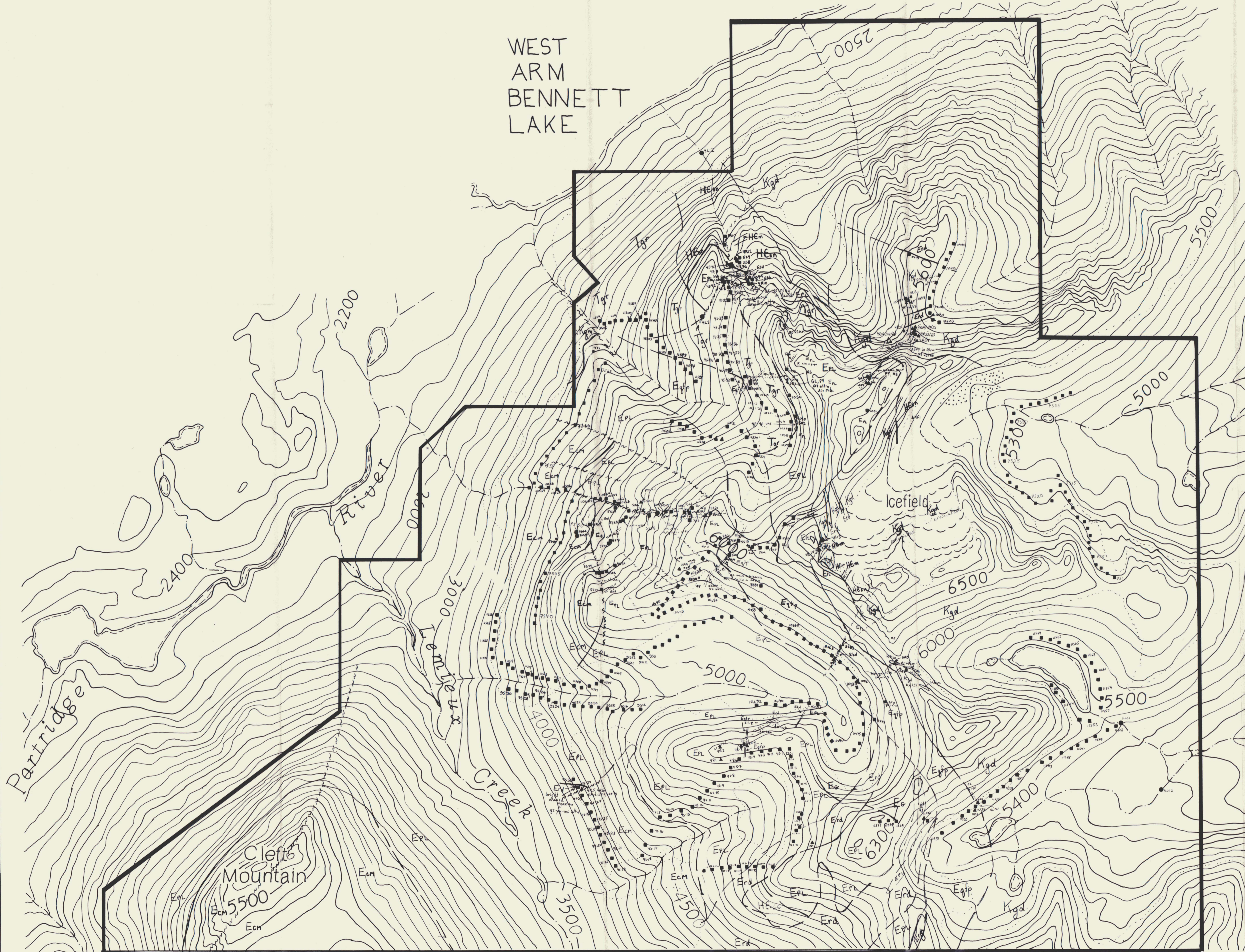


44 Samples

Maximum: 13  
Minimum: 1

Mean: 2  
Median: 1  
Standard Deviation: 3

WEST  
ARM  
BENNETT  
LAKE



**LEGEND**

- TERTIARY EOCENE**
- Ebd** Basalt dyke.
  - Ead** Andesite dyke.
  - Edd** Dacite dyke.
  - Erd** Rhyolite dyke.

- Eqfp** Ring dyke intrusions: Rhyolitic quartz-feldspar porphyry.

- SKUKUM GROUP**
- EG** Gault Formation: Granitic boulder conglomerate, sandstone, minor siltstone, shale, tuff and volcanic breccia.

- ECM** Cleft Mountain Formation: Lithic and feldspathic wacke, tuff, ignimbrite, andesite lavas, felsophytic dacite lavas.

- EPL** Partridge Lake Formation: Granitic boulder conglomerate and breccia, ignimbrite, non to partly welded, lapilli tuff, tuff breccia, minor dacite and andesite lavas.

**CRETACEOUS AND TERTIARY COAST PLUTONIC COMPLEX**

- Tgr** Leucocratic granite (possible ring fracture intrusion - age uncertain).

- Kqm** Quartz monzonite.

- Kgd** Granodiorite.

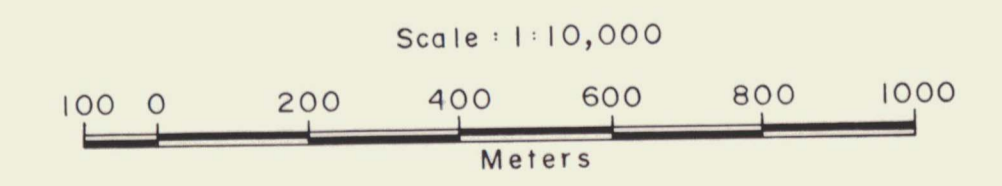
**PALEOZOIC YUKON GROUP**

- H€sn** Quartz-biotite gneiss and schist.
- H€m** Marble.

**NOTE**  
Compilation of geology based on Lambert (1974) and Skukum Gold Geologists (1988).

- |                   |                |
|-------------------|----------------|
| Py - Pyrite       | MS - Sericite  |
| Cp - Chalcopyrite | Ep - Epidote   |
| Gl - Galena       | Cy - Clay      |
| Sl - Sphalerite   | Hm - Hematite  |
| Oz - Quartz       | Mg - Magnetite |
| Cl - Chlorite     | Ca - Calcite   |

- |                      |                         |                 |
|----------------------|-------------------------|-----------------|
| ■ Talus fines sample | — Contact.              | <b>09 26 24</b> |
| ▲ Rock sample        | - - - Inferred contact. |                 |
| ● Silt sample        | + Attitude of structure |                 |
| ○ Limit of outcrop   | ~ Fault.                |                 |



**SKUKUM GOLD INC.**  
PIM Y.T. CLAIMS  
WHITEHORSE MINING DIVISION - YUKON TERRITORY

**PROPERTY GEOLOGY  
&  
SAMPLE LOCATIONS**

N.T.S. 105D/3      MAP No. 1

DRAWN BY: A.L.W., H.F.M., T.M.      DATE: NOV. 1988

NOTE: Contour Interval 100 Feet.      **533**

West  
Arm  
Bennett  
Lake



**LEGEND**

- Zn Silt sample with anomalous elements.
- Cu Soil sample with anomalous elements.
- ▲ Rock sample or group of samples.
- ▲ SL - GL Mineralization.
- ▲ 1.7% Zn, 0.102 oz/ton Au. Assays (% or oz/ton) or geochemical analysis (ppm or ppb).

	Possibly Anomalous ?	Threshold	Anomalous	Moderately Anomalous	Strongly Anomalous
Cu ppm	—	105-179	180-254	255-329	≥ 330
Pb ppm	100-193	194-325	326-457	458-589	≥ 590
Zn ppm	—	261-372	373-484	485-596	≥ 597
As ppm	100-249	250-464	465-679	680-894	≥ 895
Ag ppm	1.0-2.5	2.6-4.5	4.6-6.5	6.6-8.5	≥ 8.6
Au ppb	15-29	30-53	54-77	78-101	≥ 102

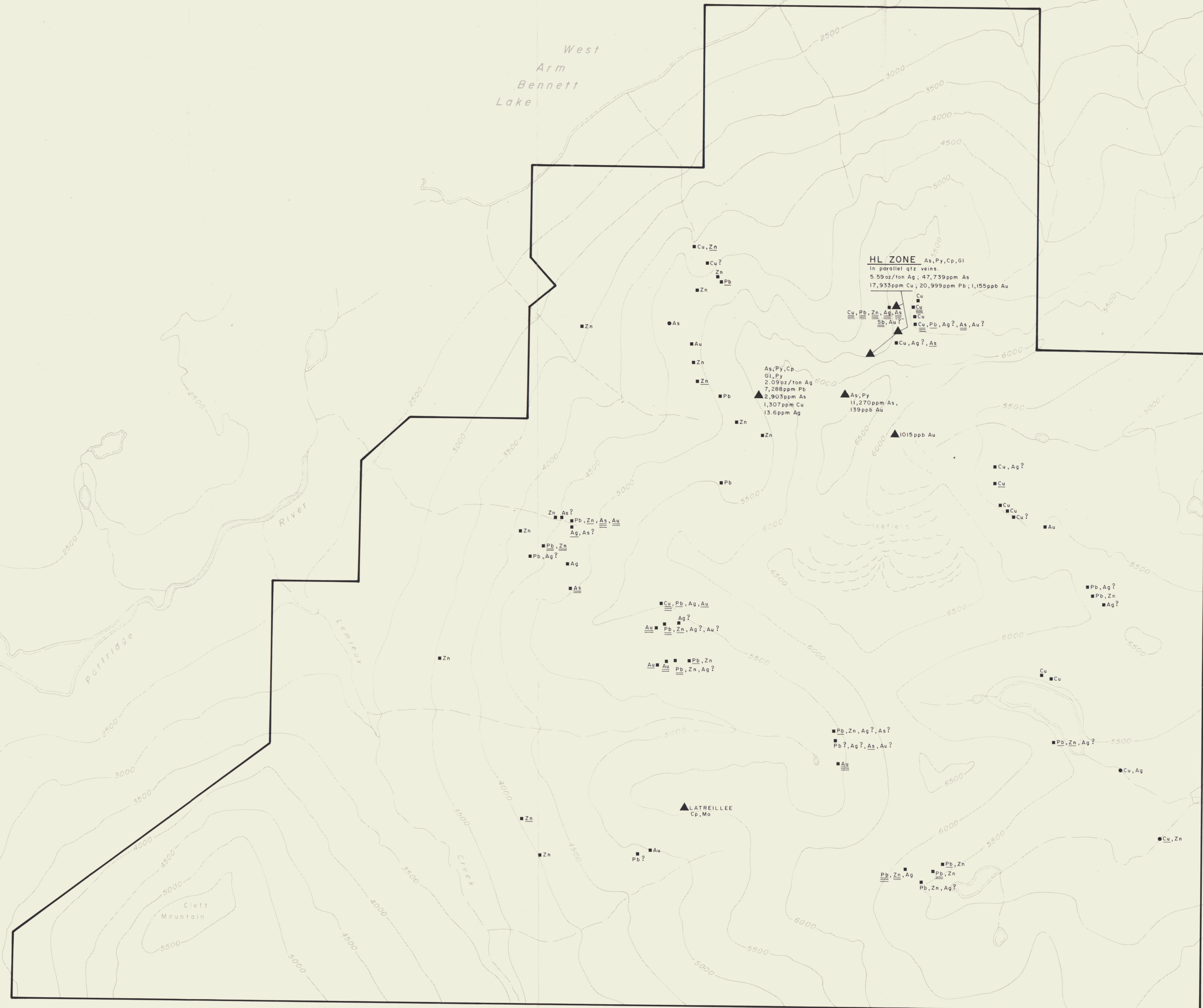
As - Arsenopyrite.  
Py - Pyrite.  
Cp - Chalcopyrite.  
Gl - Galena.  
Mo - Molybdenite.  
Qz - Quartz.

**HL ZONE** As, Py, Cp, Gl  
in parallel qtz veins.  
5.59 oz/ton Ag; 47,739 ppm As  
17,933 ppm Cu; 20,999 ppm Pb; 1,155 ppb Au

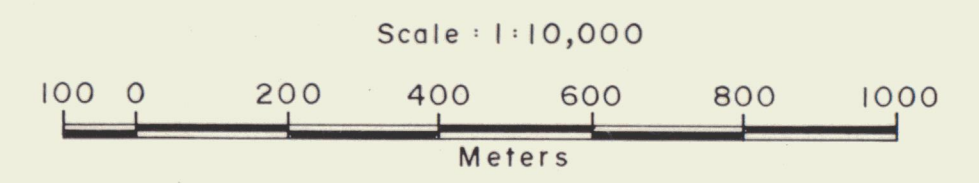
As, Py, Cp  
Gl, Py  
2.09 oz/ton Ag  
7,288 ppm Pb  
2,903 ppm As  
1,307 ppm Cu  
13.6 ppm Ag

As, Py  
11,270 ppm As,  
139 ppb Au

1015 ppb Au



092624



**SKUKUM GOLD INC.**  
PIM Y.T. CLAIMS  
WHITEHORSE MINING DIVISION - YUKON TERRITORY

**MINERALIZED SHOWINGS  
&  
ANOMALOUS GEOCHEMISTRY**

N.T.S. 105D/3      MAP No. 2  
DRAWN BY: A.L.W., H.F.M., T.M.      DATE: NOV. 1988

NOTE: Contour Interval 500 Feet.      532.