GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

MIKHAIL PROPERTY

Skeena Mining Division, British Columbia
NTS 104B/10E
Latitude: 56° - 35' N
Longitude: 130° - 34' W

on behalf of
SOLOMON RESOURCES LIMITED
Vancouver, B.C.

by

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November 8, 1990

SUMMARY

The Mikhail property is located in the Unuk River area of northwestern British Columbia - about 90 km north of Stewart. The 1990 field program was concentrated in the eastern part of the property which is underlain by sediments and volcanics belonging to the Betty Creek Formation.

The 1989 field exploration program concentrated on the Triassic stratigraphy to the west of the Unuk-Harrymel shear zone. A 6-12 m wide massive magnetite unit, traceable for 900 m was located. Mineralization consists of massive magnetite, pyrite and chalcopyrite in altered sedimentary rocks adjacent to a diorite stock. A well mineralized zone in the southeastern corner of the Mikhail 4 claim was also located. Old trenches exposed a mineralized dark green andesite containing 10-15% pyrrhotite, pyrite and chalcopyrite. Lithogeochemical grab sampling yielded 0.14-0.20% copper from several samples.

The limited contour soil sampling conducted as part of the 1990 field program identified a zone of weakly anomalous coincident gold, silver and base metal anomalies near the northern boundary of the Mikhail 1 claim. More detailed geochemical sampling, prospecting and geological mapping in this area, as well as along strike to the southwest, is recommended.

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INTRODUCTION

Solomon Resources Limited of Vancouver, B.C. commissioned Keewatin Engineering Inc. to conduct a field exploration program on the Mikhail property located in the Unuk River area of northern British Columbia.

The objective of the 1990 field exploration program was to evaluate the mineral potential of the Mikhail 1 claim through a program of prospecting, geological mapping and geochemical sampling. The geochemical program consisted of lithogeochemical, stream silt and contour soil sampling. The program was designed to concentrate on areas of the Mikhail 1 claim upstream from anomalous heavy mineral concentrate samples collected during the 1989 exploration program.

Location and Access

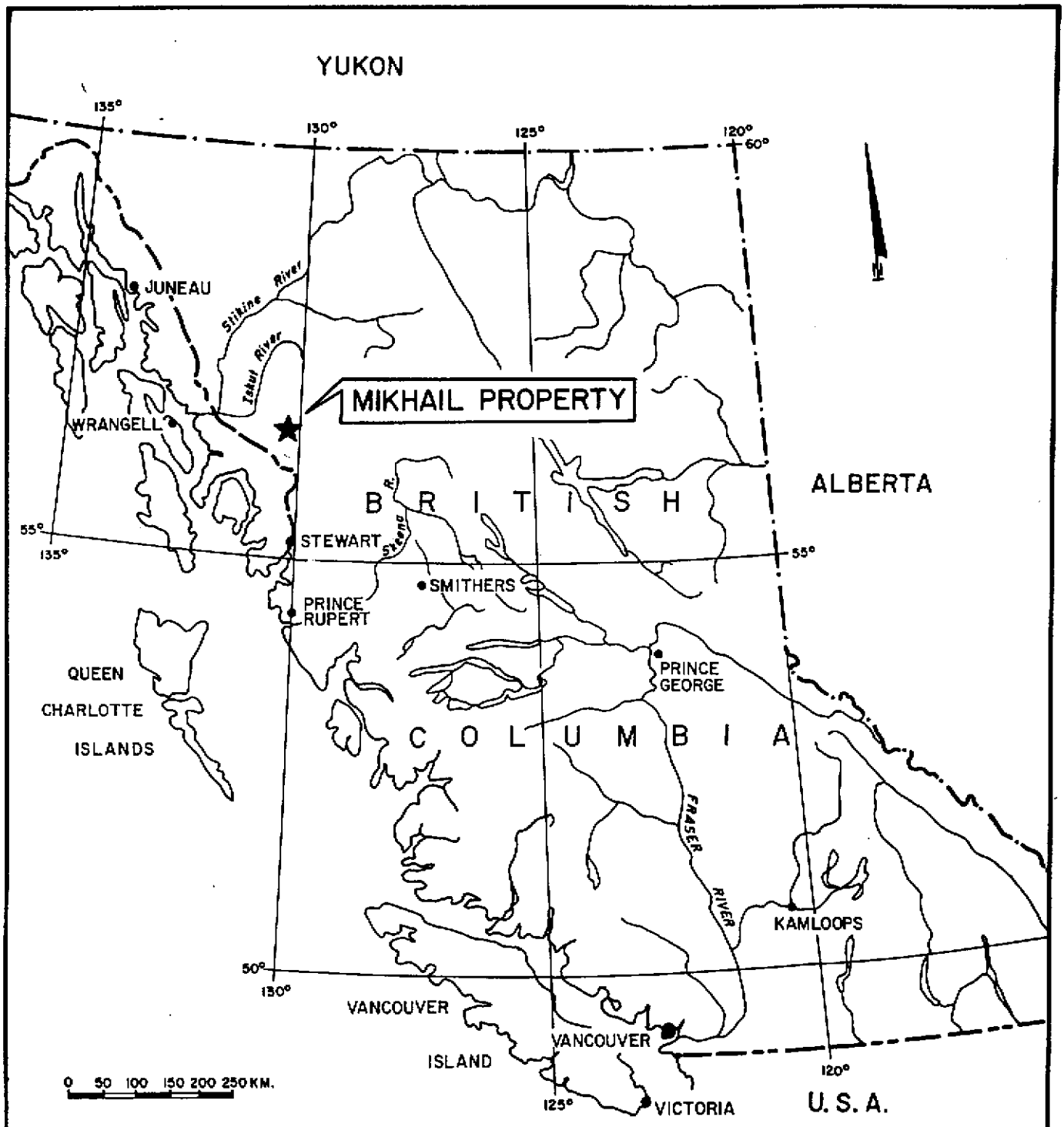
The Mikhail Property is located in northwestern British Columbia, approximately 80 kilometres northwest of Stewart (Figure 1). The claims are situated within N.T.S. map sheet 104B/10E and centred about 56° - 35' North latitude and 130° - 34' West longitude. Access to the property is by fixed wing aircraft from Terrace, Stewart or Smithers to various airstrips in the area and then via helicopter to the property. The claims can also be directly accessed by helicopter from Stewart.

At some future date, road access to the area from the Stewart - Cassiar Highway could be obtained via the Upper Unuk River and Tiegen Creek valleys.

Property Status and Ownership

The property comprises two (2) mineral claims (36 units) located within the Skeena Mining Division. The recording documents are appended to this report and the claims are shown on Figure 2. These claims are more fully described below:

Claim Name	Record No.	No. of Units	Date of Record	Expiry Year	Name of Locator
Mikhail 1	7023	18	05/12/88	1996	L. Madison
Mikhail 4	7026	18	05/12/88	1996	L. Madison

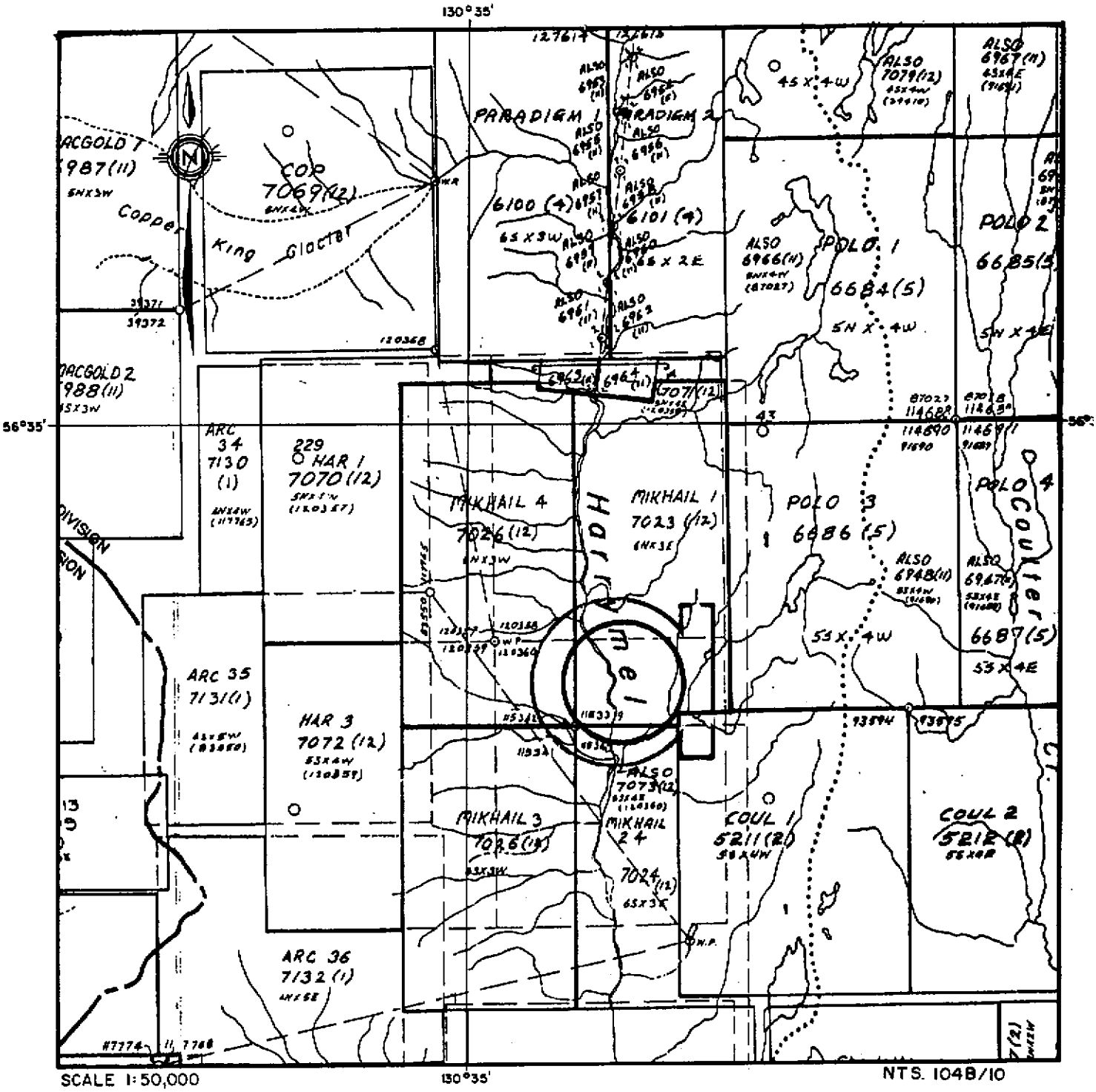


PROPERTY LOCATION MAP

MIKHAIL PROPERTY

Figure 1

KEEWATIN ENGINEERING INC.



CLAIM MAP

MIKHAIL PROPERTY

Figure 2

The above claims are, apparently, the subject of an agreement between the claim holders and Teuton Resources Corp. Teuton and Winslow Gold Corp. have recently optioned the property to Solomon Resources Limited. The claim records and maps (Figure 2) show that the Mikhail Property was subsequently overstaked. An unsuccessful one day search was made to locate the Mikhail legal claim post. The location, as plotted on the claim map (Figure 2) is, however, in an area of snow and rock slides.

Physiography and Climate

The Mikhail Property is situated within the Coast Range Physiographic Division and is characterized by northern rain forest and sub-alpine plateaux. The north-south trending, U-shaped Harrymel Creek valley bisects the property. Elevations (see Figure 3) range from 2,000 feet in the valley of Harrymel Creek to 5,000 feet in the western part of the property. The toes of several glaciers almost reach the western boundary of the property.

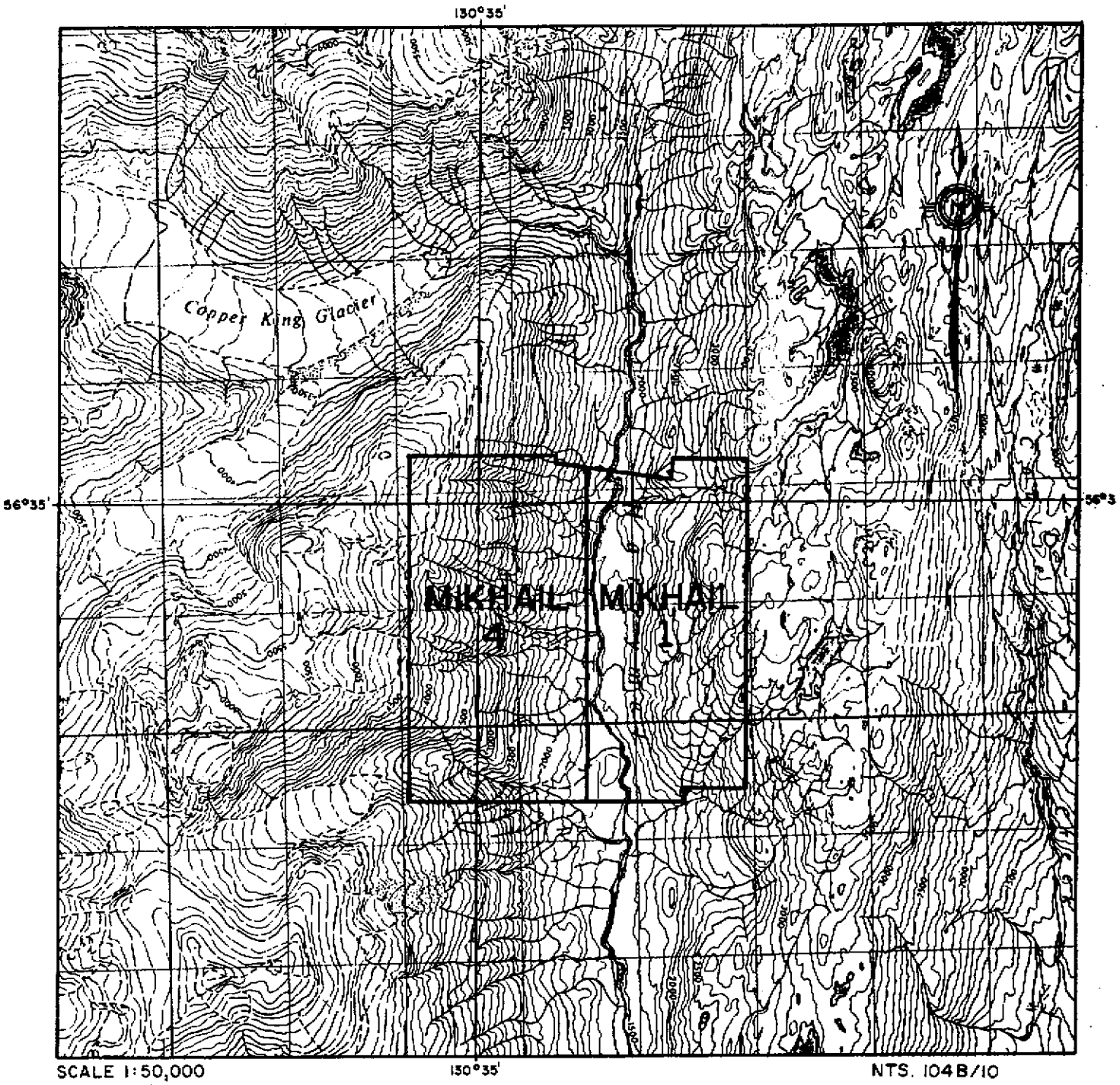
A transitional tree line, characterized by dense sub-alpine scrub, meanders through the property at, approximately, the 4,000 foot elevation. The terrain found above the tree line is typified by intermontane alpine flora. Conifers up to 30 metres tall are common below tree line, especially within the stream valleys. Water for camp and drilling purposes, is generally in good supply from the numerous creeks draining the claim area.

Precipitation is heavy, exceeding 200 cm per annum, with mild short summers but very wet spring and fall periods. Thick accumulations of snow are common during winter. It is seldom possible to begin surface geological work before July and difficult to continue past September.

PREVIOUS EXPLORATION

Regional History

The area drained by the upper reaches of the Stikine, Iskut, Unuk, Craig and Bell-Irving Rivers has been explored for gold since the late 1800's when prospectors passed through the region on their way to the interior. In the 1970's the porphyry copper boom again brought prospectors and companies into the area. The current gold exploration rush began in 1980 with the option of the Sulphurets property by Esso Minerals Canada and the acquisition of the Johnny Mountain claims by



TOPOGRAPHIC MAP
MIKHAIL PROPERTY

Figure 3

Skyline Explorations Ltd. The Johnny Mountain deposit was brought into production in mid-1988 and the adjacent SNIP property is slated for production in 1991.

At this time, the Eskay Creek Prospect, located 4.5 kilometres northwest of the Mikhail Property, is the most significant showing in the area. This prospect comprises at least eight mineralized zones occurring over a strike length of 1,800 metres within a sequence of felsic volcanics (Mount Dilworth Formation). This property is currently being explored by Calpine Resources Incorporated and Consolidated Stikine Silver Ltd. N.P.L. Preliminary drilling on the #21 Zone (Northern Miner - November 7, 1988) intersected 96 feet assaying 0.752 oz/ton gold and 1.13 oz/ton silver including 52.5 feet of 1.330 oz/ton gold and 1.99 oz/ton silver.

The drilling results obtained to date indicates that the #21 Zone extends in excess of 335 m and is open along strike and at depth. There have been 665 surface diamond drill holes to date and an exploration decline driven. The 21A deposit currently is estimated to contain probable reserves of 203,000 tons of 0.66 oz/ton gold and 6.7 oz/ton silver at a gold cut-off grade of 0.25 oz/ton. The 21B and 21C Deposits and Pumphouse Lake Zone are estimated to contain possible reserves of 2,093,000 tons of 1.43 oz/ton and 54.01 oz/ton silver at the same cut-off grade (Prime Capital Corporation - News Release, September 14, 1990).

The deposit has been described as consisting of stratabound gold-silver-base metal zones, hosted by a carbonaceous mudstone unit (Salmon River Formation?) at the top of a rhyolite breccia sequence. The mudstone is overlain by andesitic pillow lavas. The rhyolite (Mount Dilworth Formation) is underlain by dacitic tuffs of the Betty Creek Formation. The southern part of the deposit (21A Zone) contains massive to disseminated stibnite-realgar mineralization with associated high grade gold and minor silver contents. This is underlain by a footwall stockwork zone in the rhyolite. The northern part of the deposit (21B Zone) is a very gold-silver rich, base metal sulphide lens, with extensive footwall stockwork mineralization. This mineralization is associated with pervasive quartz-chlorite-muscovite alteration and minor gypsum, barite, feldspar and calcite. Eskay creek appears to display characteristics of both epithermal exhalative and volcanogenic massive sulphide types of deposits (Idziszek et al., 1990).

A review of all the available information (Minfile, assessment reports, geological maps, reports, etc.) indicates that no mineralized occurrences or prospects are known from the area presently covered by the Mikhail property.

The Unuk River area was covered by regional geological mapping in 1988 as part of the Iskut-Sulphurets Project carried out by the B.C. Ministry of Energy, Mines and Petroleum Resources (Britton et al., 1989). The whole of NTS 104B is currently being mapped by R.G. Anderson of the Geological Survey of Canada (Anderson, 1989).

The results of a regional stream sediment sampling program conducted over this area were released in July, 1988 (National Geochemical Reconnaissance, 1988). In the Unuk River area, Britton et al. (1989) report that almost every known precious metal prospect in the Unuk River area is associated with high stream sediment gold values. Known gold deposits are also associated with high but variable values for such pathfinder elements as silver, arsenic, antimony and barium. Three stream sediment samples were collected from streams draining the Mikhail Property. One of these (sample #871365 on Figure 5) exhibits elevated to anomalous values in arsenic (48 ppm) and antimony (3.8 ppm).

Property History

A review of the material in the B.C. Ministry of Energy, Mines and Petroleum Resources Assessment Report Archives indicates that no work had been filed for the specific area now covered by the Mikhail Property prior to the 1989 field season. These files do, however, show that the entire Unuk River area was subjected to reconnaissance geological mapping and prospecting by Newmont Mines Ltd. in 1959-1962. This work did not discover any promising showings or prospects on the present-day Mikhail property. The assessment records (Korenic, 1982) also indicate that Duval Corp. carried out a regional heavy mineral survey in the Unuk River area in 1981.

1989 Field Program

The 1989 exploration program consisted of helicopter-supported reconnaissance prospecting, geological mapping, and geochemical sampling with the objective of evaluating the property's potential for hosting economic precious metals deposits.

A 6-12 m wide massive magnetite unit, traceable for 900 m, was discovered along the Melville Diorite contact. This occurrence appears similar to the Max deposit in which massive magnetite with lesser pyrrhotite and chalcopyrite occur in skarn-altered sedimentary rocks adjacent to a diorite stock.

A number of old trenches were found in the southeastern corner of the Mikhail 4 claim. These trenches excavated a well mineralized zone within dark green andesite containing 10-15% pyrrhotite, pyrite, and chalcopyrite. Lithogeochemical grab sampling yielded 0.14-0.20% copper. In the northeastern corner of the Mikhail 4 claim, a dark green andesite was located hosting 10% pyrrhotite. These two showings are probably hosted by the same sulphide-enriched stratigraphic unit which cuts across the entire property.

Stream silt and heavy mineral samples collected from a stream draining the northern portion of the Mikhail 1 claim yielded elevated to anomalous Ag, Cu, and Zn values. Intermediate to felsic volcanics were found in the upper reaches of this drainage.

Heavy mineral samples collected from creeks draining the southern portion of the Mikhail 1 claim yielded elevated to anomalous Au, Ag and Zn values.

GEOLOGY

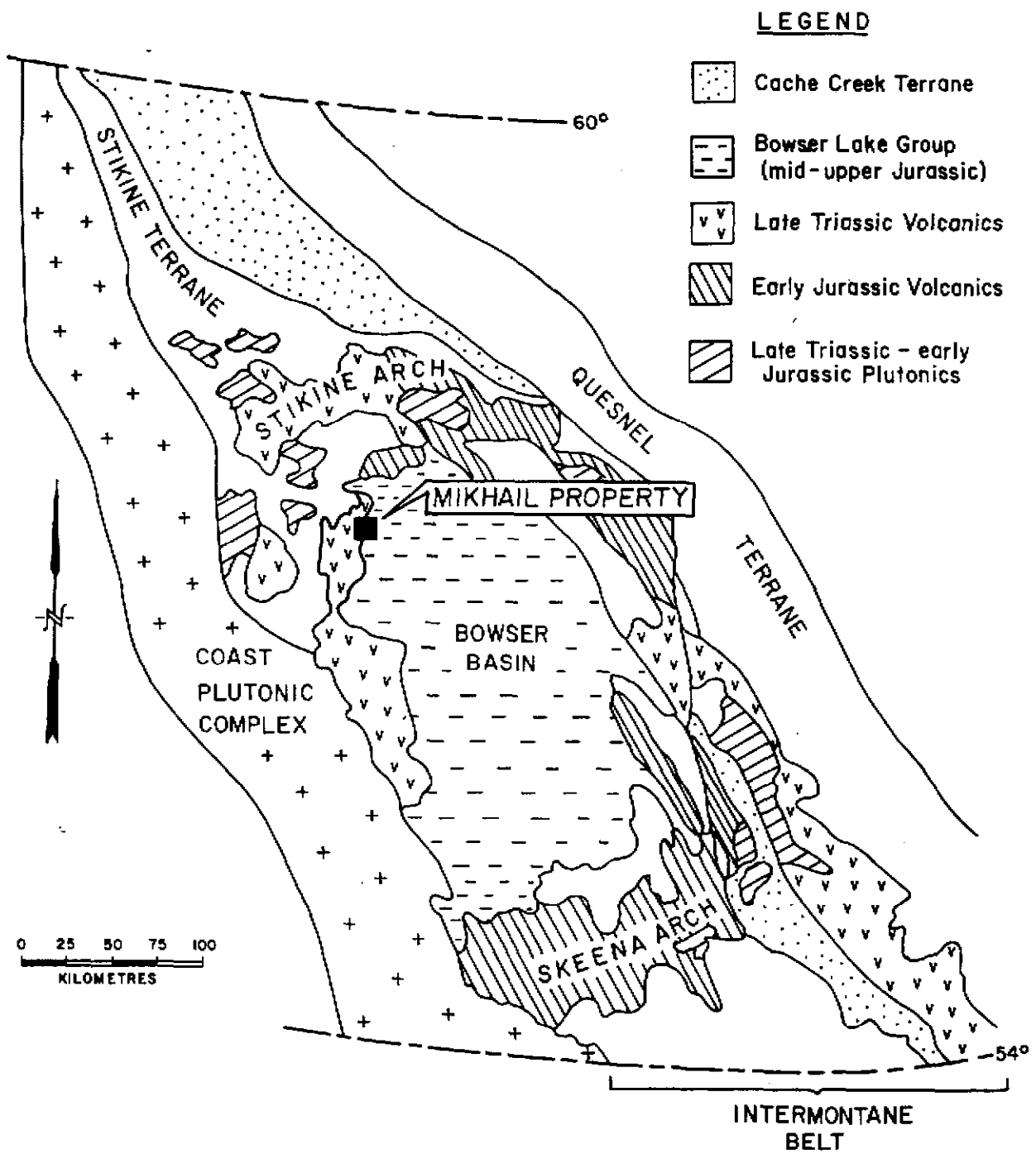
Regional Geology

The property lies within the Intermontane Tectono-Stratigraphic Belt -- one of five parallel, northwest-southeast trending belts which comprise the Canadian Cordillera (Figure 4). The Mikhail Property occurs near the contact between the Stikine Terrane, which makes up most of the western part of the Intermontane Belt, and the unmetamorphosed sediments of the Bowser Basin.

The Unuk River area (Figure 5) is underlain by a thick succession of Upper Triassic to Lower Jurassic volcano-sedimentary arc-complex lithologies capped by Middle Jurassic marine basin lithologies. This package has been intruded by a variety of plutons representing at least four intrusive episodes spanning late Triassic to Tertiary time. These include synvolcanic plugs, small stocks, dyke swarms, isolated dykes and sills as well as batholiths belonging to the Coast Plutonic Complex.

Property Geology

Regional geological mapping by Britton et al. (1989) shows that the property is predominantly underlain by Upper Triassic to Lower Jurassic supracrustal rocks (Figure 6). The north-south trending Harrymel-South Unuk shear zone transects the property and separates the Upper Triassic to Lower Jurassic rocks in the western half of the property from the Lower Jurassic rocks which

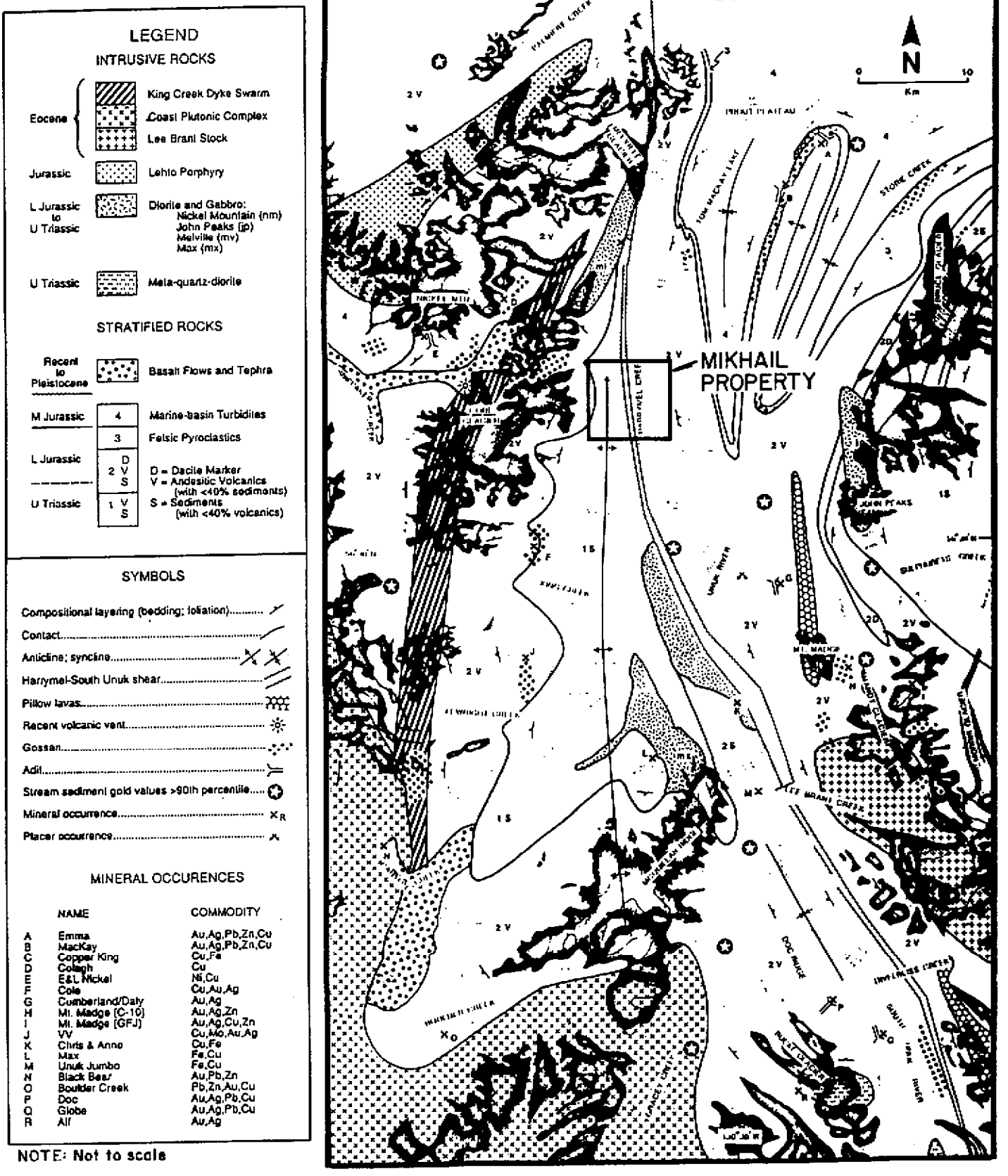


REGIONAL GEOLOGY
BOWSER BASIN
NW BRITISH COLUMBIA

(Outline of terrane boundaries and major rock groups of the Jurassic and Triassic – modified from Thomson, 1985).

Figure 4

KEEWATIN ENGINEERING INC.



NOTE: Not to scale

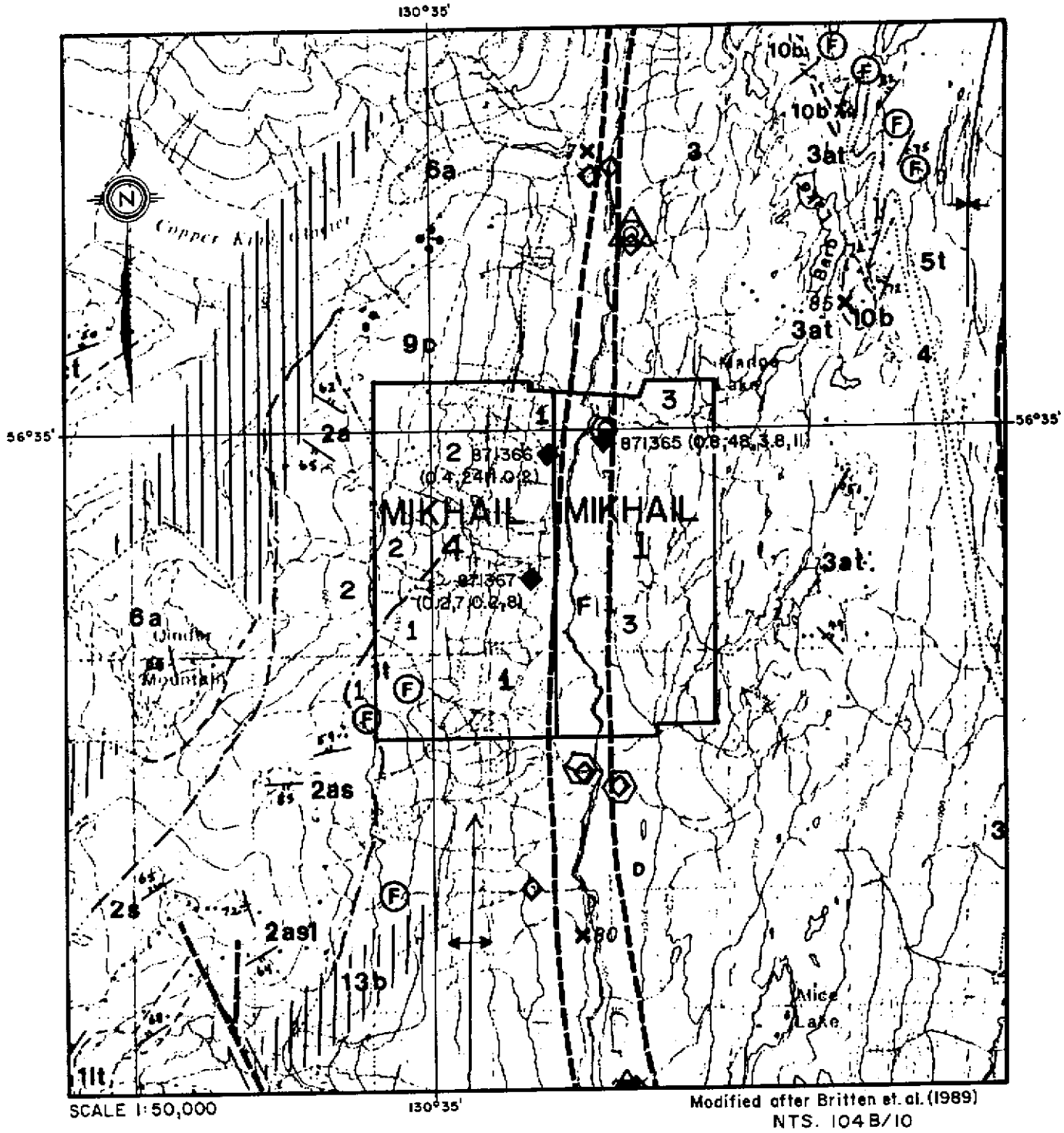
Geology and mineral deposits, Unuk map area.

Modified after Britton et. al. (1989)

REGIONAL GEOLOGY UNUK MAP AREA

Figure 5

KEEWATIN ENGINEERING INC



PROPERTY GEOLOGY

MIKHAIL PROPERTY

Figure 6

LEGEND

INTRUSIVE ROCKS

TERTIARY

13 *POST-TECTONIC DYKES*

- 13a *Lamprophyre, andesite, diabase (plotted not shown)*
- 13b *Klaz Creek Dyke Swarm: feldspar porphyry dacite, andesite, diabase, quartz diorite*
- 13c *Hawkesan monzonite: fine-grained leuco-monzonite*

12 *COAST PLUTONIC COMPLEX:*

- 12a *Bonga granite*
- 12b *Hornblende-biotite quartz diorite*
- 12c *Lee Brant Stock: K-feldspar porphyry, hornblende-biotite quartz monzonite*

JURASSIC

11 *MICKEL MOUNTAIN GABBRO: melanocratic tabular-pyroxene gabbro*

10 *SYN TO POST-VOLCANIC INTRUSIONS: Porphyritic to phaneritic textured; possibly hypabyssal equivalents of extrusive rocks*

- 10a *Lakes Porphyry: K-feldspar-plagioclase-hornblende porphyry granodiorite to syenite*
- 10b *Bare Lake Dyke: fine- to medium-grained hornblende diorite*
- 10c *Andesite-Diorite Complex: melanocratic, fine- to medium-grained dioritic with abundant xenoliths of dark green meta-andesite; (possibly Triassic)*

9 *UNUK RIVER DIORITE SUITE: medium- to coarse-grained, mafic to intermediate stocks*

- 9a *John Peaks metaporphyritic hornblende diorite*
- 9b *Mist Glacier hornblende diorite; quartz diorite*
- 9c *Melanie hornblende-biotite diorite to quartz diorite*
- 9d *Doc Ridge biotite monzodiorite*

TRIASSIC

8 *BUCKE GLACIER STOCK: light grey, granular to foliated, medium-grained hornblende-biotite quartz diorite*

METAMORPHIC ROCKS

A - F *METAMORPHIC EQUIVALENTS OF UNITS 1, 2 OR 3*

- A *Metacherts: dark grey, carbonaceous quartz-feldspar-sericite phyllite*
- B *Felsic metavolcanics: light green quartz-albite-chlorite-sericite phyllite, locally with deformed lapilli*
- C *Mafic to intermediate metavolcanics: dark green, plagioclase-chlorite phyllite*
- D *Hornblende-plagioclase rhyolite; mylonitic meta-tuffs*
- E *Hornblende-plagioclase gneiss; agmatitic migmatite*
- F *Sparingly sheared rocks within the Unuk-Harrymel fault zone*

GOSSANOUS ALTERATION ZONES

Pyrite ± quartz ± sericite ± carbonate ± clay; locally foliated to schistose

Disseminated pyrite in felsic volcanics

VOLCANIC AND SEDIMENTARY ROCKS

(Note: No stratigraphic age is implied within sequences.)

QUATERNARY

RECENT

17 *UNCONSOLIDATED SEDIMENTS*

- 7a *Alluvium, glaciofluvial deposits, landslide debris, moraine*
- 7b *Alluvium undivided by Pleistocene to Recent basalt*

PLEISTOCENE TO RECENT

6 *BASALT FLOWS AND TEPHRA*

- 6a *Dark grey to black, basalt flows and tephra; minor pillow lavas*
- 6b *Basalt dykes*

TRIASSIC TO JURASSIC

HAZELTON GROUP

MIDDLE JURASSIC (TOARCIAN TO BAJOCIAN)

5 *SILTSTONE SEQUENCE (Salmon River Formation): Dark grey, well-bedded siltstone with minor sandstone and slate/limestone*

- 5c *Chert pebble conglomerate and wacke*
- 5f *Rhythmically bedded siltstone and shale (turbidite)*
- 5w *Thinly bedded wacke*
- 5p *Andesitic pillow lavas and pillow breccias with minor siltstone interbeds*

LOWER JURASSIC (TOARCIAN)

4 *FELSIC VOLCANIC SEQUENCE (Mount Dilworth Formation): Light weathering, intermediate to felsic pyroclastic rocks, including dust, ash, crystal and lithic tuffs, lapilli tuff. Locally pyritiferous (3 to 15%) and gossanous. Minor chalcedonic quartz veins locally.*

- 4a *Variably bedded ashfall tuffs*
- 4f *Massive felsic tuff*
- 4r *Black and white, carbonaceous felsic volcanics; locally flow banded and autobrecciated*

LOWER JURASSIC (PLIENSBACHIAN TO TOARCIAN)

3 *PYROCLASTIC-EPICLASTIC SEQUENCE (Betty Creek Formation): Heterogeneous, grey, green, locally purple or maroon, massive to bedded pyroclastic and sedimentary rocks; pillow lava*

- 3s *Green and grey, massive to poorly bedded sandstone*
- 3d *Grey, green and purple dacitic tuff, lapilli tuff, crystal and lithic tuff; massive to well bedded, feldspar phyric*
- 3f *White weathering, felsic tuffs and breccias with quartz stringers*
- 3c *Andesitic lapilli tuff with pale calcareous clasts*
- 3p *Andesitic pillow lavas and pillow breccias with minor siltstone interbeds*
- 3t *Black, thinly bedded siltstone, shale and argillite (turbidite)*

UPPER TRIASSIC TO LOWER JURASSIC (NORIAN TO SINEMURIAN)

2 *ANDESITE SEQUENCE (Unuk River Formation): Green and grey, intermediate to mafic volcaniclastics and flows with locally thick interbeds of fine-grained immature sediments; minor conglomerate and limestone*

- 2a *Grey and green, plagioclase ± hornblende porphyritic andesite; massive to poorly bedded*
- 2h *Grey and green, hornblende-(± pyroxene)-feldspar porphyritic andesitic lapilli and ash tuff*
- 2s *Grey, brown and green, thinly bedded, calcareous siltstone and fine grained wacke*
- 2t *Black, thinly laminated siltstone (turbidite); shale; argillite*
- 2g *Dark grey, matrix-supported conglomerate with granitic cobbles*
- 2l *Grey, variably bedded limestone (completely recrystallized along South Unuk valley)*

TRIASSIC

STUHINI GROUP

UPPER TRIASSIC (CARNIAN TO NORIAN)

1 *LOWER VOLCANOSEDIMENTARY SEQUENCE: Brown, black and grey, mixed sedimentary rocks interbedded with medium to dark green, mafic to intermediate volcanic and volcaniclastic rocks*

- 1t *Grey to black, thinly bedded siltstone, shale, argillite (turbidite)*
- 1w *Brown and grey, fine grained calcareous wacke; minor siltstone or conglomerate*
- 1l *Grey, impure, silty, sandy limestone*
- 1c *Green, fine-grained, andesitic ash tuff, feldspar and hornblende phyric*
- 1b *Dark green basalt*
- 1p *Grey and green, andesitic breccia with augite-hornblende-plagioclase clasts and sedimentary matrix*

SYMBOLS

Geological boundary (defined, approximate, assumed)

Bedding, tops known (horizontal, inclined, vertical, overturned)

Bedding, tops unknown (horizontal, inclined, vertical)

Bedding, estimated dip (gentle, moderate, steep)

Stratigraphic tops in pillow volcanics

Compositional layering in metamorphosed rocks; foliation (inclined, vertical)

Trend line

Regional antiform; synform

Antiform; synform (normal, overturned)

Minor fold axis with M, Z or S symmetry; with plunge

Fault (defined, assumed; D = downthrown side)

Thrust fault (defined, assumed; teeth on upper plate)

Air photo lineament

Fossil locality (F)

Fiamme (I)

Area with more than 40% Tertiary dykes

Limit of major phyllite zone

Volcanic vent (observed, assumed)

Geologic station

National geochemical reconnaissance sample site — 871365 (0.8,48,3.8,II)

Potassium-argon isotopic age site; H = hornblende; age in millions of years before present

Mineral occurrence; MINFILE number — X83

Adit

LEGEND for Fig. 6

underlie the eastern part of the property. The distribution of map-units suggests that the rocks to the west of the major shear zone dip shallowly to the west. Units in the eastern part of the property display a moderate easterly dip. The northwestern corner of the property is underlain by the southern nose of the Melville Diorite Stock.

Geological mapping during the 1990 field season was concentrated on the Lower Jurassic Betty Creek Formation stratigraphy on the east side of the Unuk-Harrymel shear zone (Mikhail #1 claim). Two geological mapping/prospecting traverses were completed along drainages at the north and south ends of the property. This work showed that the property is underlain by alternating bands of resistive grey to green intermediate volcanics, and recessive black thinly bedded siltstone, shale and argillite. The intermediate volcanics included fine grained massive flows, pillowed flows, banded, lithic tuffs and fragmentals. The sediments are generally thinly bedded, but two distinctive sheared and altered siltstone/argillite bands were also identified. This stratigraphic package is similar to that which hosts the Eskay Creek deposit, 10 km to the northwest, except for the absence of felsic volcanic bands.

The Map-Units occurring on the Mikhail Property are described below.

Stuhini Group (Upper Triassic - Unit 1 on Figure 6)

Fossil evidence led Britton et al. (1989) to ascribe a Carnian to Norian age to this unit and to equate it with the Stuhini Group. This unit occurs as a wedge between the Harrymel-South Unuk shear zone and the volcanics and sediments of the Unuk River Formation (Unit 2 on Plate 6) to the west. The Upper Triassic rocks have been sub-divided into three litho-stratigraphic sequences, only the lowest of which occurs on the Mikhail Property. This unit consists of grey to black, thinly bedded siltstone and shales, argillites and immature fine grained wackes.

Unuk River Formation (Upper Triassic to Lower Jurassic - Unit 2 on Figure 6)

These Norian to Sinemurian age rocks belong to the Unuk River Formation which is the lowermost unit of the Hazelton Group. This unit has been mapped by Britton et al. (1989) in the northwestern part of the property. The dominant unit appears to be grey and brown, massive to poorly bedded plagioclase $\pm$ hornblende porphyritic andesite. Lesser amounts of

thinly bedded, grey, brown and green tuffaceous siltstones and fine grained wackes occur locally.

Betty Creek Formation (Lower Jurassic - Unit 3 on Figure 6)

A Pleinsbachian to Toarcian age is assigned to this unit by Britton et al. (1989). This pyroclastic-epiclastic sequence comprises a sequence of westward facing but locally overturned interbedded volcanics and lesser sediments, underlying the eastern part of the property. The volcanics are dominantly grey and green, massive to poorly bedded units, and range in composition from basaltic andesite to dacite. Pillow lavas, breccias, and felsic pyroclastics, including spherulitic rhyolite, have been reported in the John Peaks area, but were not mapped by Britton et al. (1989) within the Mikhail property. The sedimentary rocks are, on the whole, less abundant than the volcanic rocks, and consist of black thinly bedded siltstone, shale, and argillite. Limestones are rare or absent in the Lower Jurassic section.

Melville Diorite Stock (Jurassic - Unit 9c on Figure 6)

The southern extremity of this elongate stock underlies the northwestern corner of the property along the inferred contact between Triassic and Jurassic strata. This lithotype is medium- to coarse-grained, equigranular, and ranges in composition from hornblende-biotite diorite to quartz diorite.

Structure

The Unuk-Harrymel shear zone bisects the Mikhail property trending north-south along Harrymel Creek (western Mikhail 1 claim area). This cataclastic zone has been interpreted as a major east dipping fault structure with normal offset. The zone itself is composed of strongly sheared and foliated black graphitic argillite. This shear zone separates the Jurassic Betty Creek Formation to the east from the Upper Triassic Stuhini Group to the west. Fault surfaces mapped in the Betty Creek rocks were seen to trend north-northeast and dip moderately to steeply both east and west. Variably orientated strikes, dips and contacts seem to indicate folding of the Betty Creek Formation.

Alteration

Regional greenschist facies alteration has chloritized the intermediate volcanics and produced dark green coloration. Rare quartz-carbonate stringer zones are found within these volcanics. Zones of carbonate alteration are also encountered, possibly the result of hydrothermal fluids migrating along nearby zones of weakness.

Mineralization

Mineralization observed on the Mikhail 1 claim was limited to fine grained disseminated pyrite within intermediate massive volcanics, tuffs, argillites and quartz carbonate stringers. No other sulphides were identified. Pyrite mineralization was seen to increase in host argillites at and near contacts of intermediate dykes. The highest geochemical value from the 1990 field exploration program was returned from a chip sample (PR4184; 120 ppb Au) at this contact within the argillite (Figure 7, Appendix V and VI).

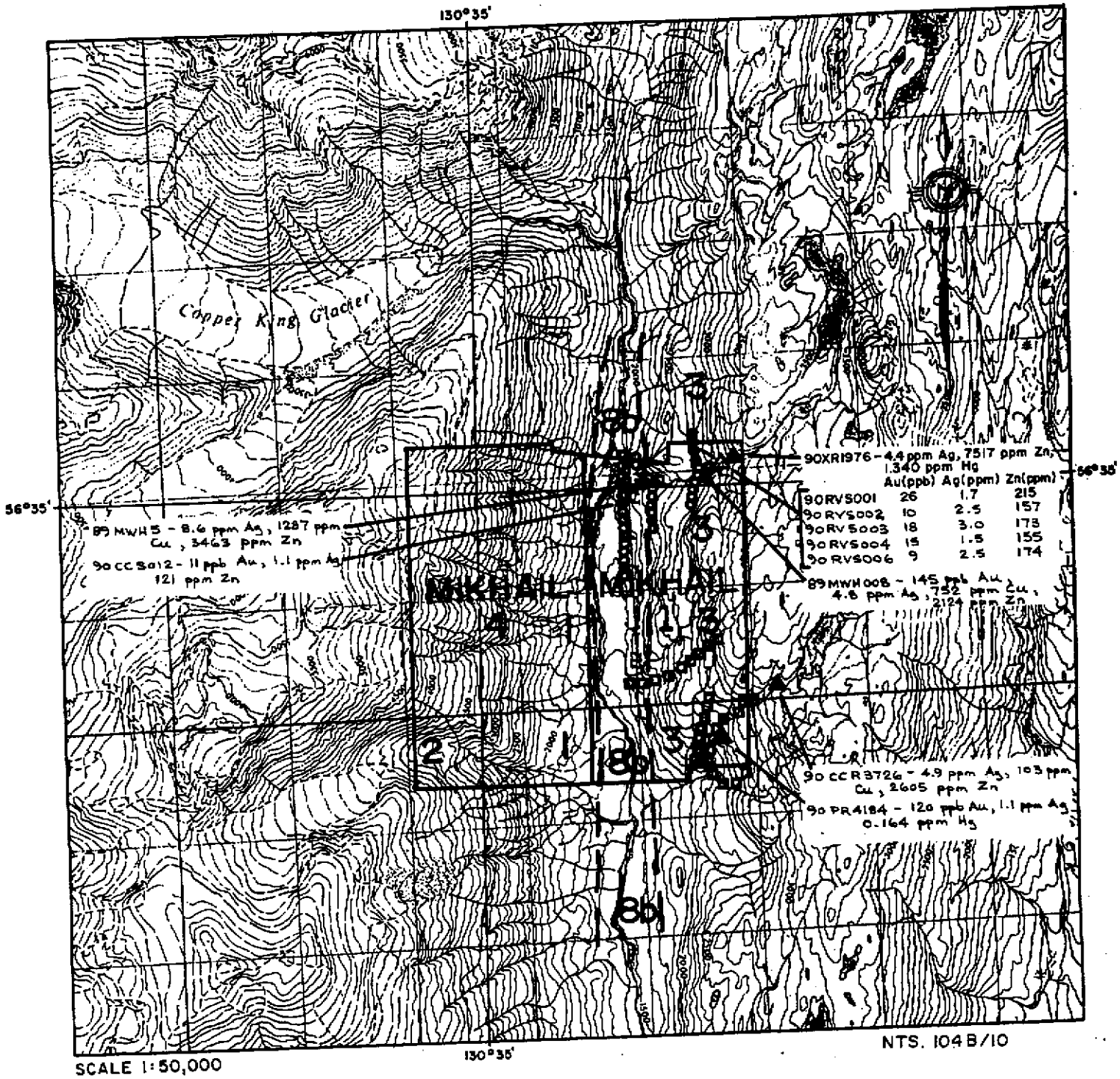
1990 EXPLORATION PROGRAM

Geological Mapping

The 1990 program of geological mapping was concentrated in the eastern half of the Mikhail Property. This is the area to the east of the Harrymel-South Unuk shear zone and which is mapped by Britton et al. (1989) as underlain by rocks belonging to the Betty Creek Formation. Two geological mapping/prospecting traverses (5 line-kilometres) were completed along drainages at the northern end and southern extremities of the property.

GEOCHEMISTRY

A total of 65 soil samples, 46 stream silt samples and 19 rock samples were taken as part of the geochemical survey on the Mikhail property. All samples were shipped to Bondar Clegg of North Vancouver where they were analyzed for Au and 8 element ICP (Cu, Pb, Zn, Ag, Mo, As, Sb, Hg). The analytical techniques are described in Appendix VIII).



LEGEND

- 3 — Betty Creek Formation (Lower Jurassic) Gray to green intermediate volcanics, black argillite and siltstone
- 2 — Unuk River Formation (Upper Triassic – Lower Jurassic)
- 1 — Stuhini Group (Upper Triassic)
- 8b — Strongly sheared rocks within the Unuk-Harrymel fault system

- ○ ● soil sample location, anomalous sample
- □ ■ stream silt sample locations (approx.), anomalous sample
- △ ▲ rock sample location (approx.), anomalous samples

1990 EXPLORATION COMPILATION

MIKHAIL PROPERTY

Figure 7

Keewatin Engineering Inc.

Stream Silt Geochemistry

A total of 46 stream silt sediment geochemical samples were collected from creeks and streams in both the northern and southern parts of the Mikhail 1 claim. The northern stream was investigated in order to follow-up a heavy mineral concentrate sample from the 1989 exploration program which was anomalous in copper and zinc (89MWH5; 1281 ppm Cu, 3,463 ppm Zn). The sample site was not found, leading the author to believe that the sample was taken on a nearby stream. None of the silt samples collected in 1990 from the northern drainages produced anomalous values. The southern drainages sampled as part of the 1990 exploration program also did not produce any geochemically anomalous samples. As in the northern part of the claim, these drainages were sampled in order to investigate an anomalous heavy mineral concentrate sample collected during the 1989 program. This original sample site was not located in 1990.

Soil Geochemistry

A total of sixty five contour soil samples were collected along three contour lines at roughly 300 foot contour intervals. Due to the initial discouraging results from the silt and soil geochemistry, the work on the Mikhail property was suspended and these contour lines were not extended beyond one kilometre south of the northern boundary. From this limited sampling, one weakly anomalous zone of gold, silver, copper, lead, zinc and mercury was outlined close to the northern claim boundary on the 2,600 foot contour (Figure 7). If this weak soil geochemical anomaly is related to the stratified mineralized horizon, the geological trend could extend towards the untested central to central western portion of the claim. Results are listed below:

Table 1

Anomalous Soil Sample Results

Sample No.	Au (ppb)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Hg (ppm)
90 RV S001	26	1.7	16	50	215	0.149
90 RV S002	10	2.5	28	55	159	0.159
90 RV S003	18	3.0	77	38	173	0.164
90 RV S004	15	1.5	77	43	155	0.215
90 RV S005	9	2.5	63	26	174	0.184

Rock Geochemistry

A total of nineteen grab samples were collected during prospecting/geological mapping traverses on the Mikhail property. Traverses were not conducted in the central portion of the property. Anomalous results are listed below, and plotted on Figure 7.

Table 2

Anomalous Rock Sample Results

Sample No.	Au (ppb)	Ag (ppm)	As (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Hg (ppm)
90 XR 1976	<5	4.4	42	140	95	7517	1.340
90 CC R3726	<5	4.9	80	103	10	2605	0.680
90 PR 4184	120	1.1	29	93	62	54	0.164

CONCLUSIONS & RECOMMENDATIONS

The 1990 exploration program on the Mikhail property consisted of prospecting, mapping and geochemical sampling. Work was confined to the northern and southern extremities of the Mikhail 1 claim.

Geological mapping, confined during the 1990 exploration program to the Betty Creek Formation of the Mikhail 1 claim, determined that the property is underlain by alternating bands green to grey intermediate volcanics and black, thinly bedded siltstone, shale and argillite.

The results of the geochemical survey failed to define any obvious exploration targets. One area of coincident weak geochemical anomalies in soil along the 2,600 foot contour in the northern part of the Mikhail 1 claim was identified. This area may warrant further investigation. Due to a lack of encouraging results, the soil contour geochemical survey was not extended southward from the northern area of coverage. Geochemical contour soil sampling lines, prospecting and geological mapping along creeks and stream silt sampling could still be conducted in the central part of the Mikhail 1 claim area. The weak coincident soil geochemical anomaly, if related to a stratified horizon would project into this area.

A search in this central claim area for the, as yet unlocated, anomalous heavy mineral concentrate sample site from the 1989 exploration program should be made. Once located, detailed (100 m spaced) silt samples should be collected from the above noted drainages. Prospecting and mapping should also be done in this area.

Respectfully submitted,

KEEWATIN ENGINEERING INC.

Alexander M. (Sandy) Gibson, B.Sc.

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Woods, D.V.; Hermary, R.G. (1988): Geophysical Report on an Airborne Magnetic and VLF-EM Survey, Mikhail 1-4 Claims; for Dino Cremonese

CERTIFICATE

I, ALEXANDER M. GIBSON, of 555 E. St. James Road in the District of North Vancouver in the Province of British Columbia, do hereby certify that:

1) I am a graduate of the University of British Columbia, B.Sc. Geology (1988) and have practised my profession continuously since graduation.

2) I am a member of the Geological Association of Canada.

3) I am presently employed on contract with the firm of Keewatin Engineering Inc., with offices at Suite 800 - 900 West Hastings Street, Vancouver, British Columbia.

4) During the period of August 10 - August 15, 1990, I managed and carried out the exploration program on the Mikhail Property on behalf of Solomon Resources Limited.

5) I am the author of the report entitled "Geological and Geochemical Report on the Mikhail, Skeena Mining Division, British Columbia", dated November 8, 1990.

6) I do not own or expect to receive any interest (direct, indirect or contingent) in the property described herein nor in the securities of Solomon Resources Limited in respect of services rendered in the preparation of this report.

Dated at Vancouver, British Columbia this 9th day of November, 1990.

Respectfully submitted,

Alexander M. Gibson, B.Sc.

APPENDIX I

Itemized Cost Statement

ITEMIZED COST STATEMENT

MIKHAIL SUMMARY October 25, 1990		
1	Wages	$ 4,580.00
2	Domicile	1,275.00
3	Helicopter	3,810.00
4	Mobilization/Demobilization, Freight, Fuel, etc.	10,313.46
5	Supplies	1,430.92
6	Assays Soils - 65 @ $11.00 each Silts - 46 @ $11.00 each Rocks - 19 @ $13.48 each	 715.00 506.00 256.03
7	**TOTAL**	**22,886.50**

APPENDIX II

Statement of Personnel

SUMMARY OF PERSONNEL

Employee	No. of Days	Day Rate	Total $
Anderson, Colin	3	$250.00	$ 750.00
Birkeland, Eric	2	$300.00	600.00
Gibson, Sandy	2	$325.00	650.00
McIntyre, Brian	3	$300.00	900.00
Thompson, Scott	5	$250.00	1,250.00
Whittam, Heath	1	$190.00	190.00
Wood, Lesley	1	$240.00	240.00
TOTAL:			**$4,580.00**

APPENDIX III

Soil and Stream Silt Sample Geochemical Results

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REPORT: V90-02053.0

DATE PRINTED: 25-SEP-90

PROJECT: 044

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM	Hg PPM
S1 90 CC 044 S-001		6	0.4	26	7	56	<5	<5	7	0.143
S1 90 CC 044 S-002		8	1.2	20	24	45	18	<5	8	0.116
S1 90 CC 044 S-003		7	1.7	18	23	51	16	8	14	0.090
S1 90 CC 044 S-004		<5	1.1	19	11	55	6	6	5	0.063
S1 90 CC 044 S-005		<5	1.0	16	45	37	12	<5	6	0.135
S1 90 CC 044 S-006		<5	1.9	25	28	46	14	11	9	0.103
S1 90 CC 044 S-007		7	1.8	20	25	65	18	8	11	0.060
S1 90 CC 044 S-008		9	1.1	27	13	42	7	7	5	0.043
S1 90 CC 044 S-009		6	1.2	33	9	32	15	<5	3	0.149
S1 90 CC 044 S-010		6	1.5	29	10	37	8	8	3	0.126
S1 90 CC 044 S-011		5	1.7	29	14	76	18	<5	4	0.182
S1 90 CC 044 S-012		11	1.1	45	26	121	32	<5	4	0.085
S1 90 CC 044 S-013		6	1.1	22	8	45	<5	<5	3	0.139
S1 90 CC 044 S-014		<5	1.5	28	16	59	8	6	6	0.115
S1 90 CC 044 S-015		6	1.4	28	16	69	31	6	3	0.175
S1 90 CC 044 S-016		<5	1.2	18	18	63	7	<5	14	0.077
S1 90 CC 044 S-017		<5	1.6	21	23	64	10	8	12	0.086
S1 90 CC 044 S-018		<5	1.0	21	20	59	7	6	8	0.069
S1 90 CC 044 S-019		<5	2.6	30	24	84	17	7	6	0.184
S1 90 CC 044 S-020		<5	1.4	30	17	79	<5	<5	7	0.074
S1 90 CC 044 S-021		<5	1.7	29	14	33	41	14	4	0.137
S1 90 ST 044 S-201		<5	0.8	18	17	46	<5	<5	5	0.095
S1 90 ST 044 S-202		6	1.9	19	10	32	12	10	5	0.108
S1 90 ST 044 S-203		5	1.0	16	14	33	<5	5	3	0.105
S1 90 ST 044 S-204		<5	0.9	10	10	40	5	<5	2	0.086
S1 90 ST 044 S-205		17	1.1	20	12	26	34	8	3	0.100
S1 90 ST 044 S-206		<5	1.0	20	18	68	11	7	3	0.077
S1 90 ST 044 S-207		9	1.0	19	13	51	13	8	4	0.066
S1 90 ST 044 S-208		<5	1.3	26	15	62	<5	<5	12	0.075
S1 90 ST 044 S-209		6	1.1	24	14	55	7	<5	14	0.101
S1 90 ST 044 S-210		6	1.4	41	14	56	9	7	7	0.084
S1 90 ST 044 S-211		6	1.2	49	23	109	30	7	4	0.190
S1 90 ST 044 S-212		9	0.7	21	14	39	6	5	10	0.056
S1 90 ST 044 S-213		<5	1.7	31	16	56	24	9	6	0.120
S1 90 ST 044 S-214		7	1.1	17	7	43	<5	<5	4	0.090
S1 90 ST 044 S-215		8	0.9	16	14	41	6	<5	4	0.069
S1 90 ST 044 S-216		5	1.9	28	17	61	24	<5	8	0.157
S1 90 ST 044 S-217		11	1.2	25	55	62	23	8	4	0.172
S1 90 RV 044 S-001		26	1.7	145	50	215	64	7	14	0.149
S1 90 RV 044 S-002		10	2.5	66	55	159	66	9	14	0.159

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PROJECT: 044 PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM	Hg PPM
S1 90 RV 044 S-003		18	3.0	77	38	173	45	8	9	0.164
S1 90 RV 044 S-004		15	1.5	77	43	155	30	6	6	0.215
S1 90 RV 044 S-005		9	2.5	63	26	174	31	11	7	0.184
S1 90 RV 044 S-006		9	1.4	51	23	125	10	6	9	0.129
S1 90 RV 044 S-007		<5	2.5	39	21	88	9	10	8	0.146
S1 90 RV 044 S-008		6	0.2	13	3	37	<5	<5	<1	0.110
S1 90 RV 044 S-10		7	1.7	75	37	186	42	9	5	0.152
S1 90 RV 044 S-11		7	0.9	27	15	84	16	6	4	0.117
S1 90 RV 044 S-12		<5	1.0	35	16	184	14	8	3	0.073
S1 90 RV 044 S-13		<5	1.4	21	18	93	6	5	7	0.060
S1 90 RV 044 S-14		6	1.6	24	11	76	6	<5	3	0.087
S1 90 RV 044 S-15		<5	1.4	33	15	68	<5	10	3	0.109
T1 90 CC 044 L-021		13	0.8	32	13	130	11	7	3	0.089
T1 90 CC 044 L-022		10	0.9	27	15	160	40	7	5	0.058
T1 90 AW 044 L-001 0+00		10	1.5	28	18	202	8	<5	3	0.158
T1 90 AW 044 L-002 1+00		12	1.7	48	28	252	17	6	5	0.216
T1 90 AW 044 L-003 2+00		12	0.9	31	17	153	14	<5	3	0.139
T1 90 AW 044 L-004 3+00		9	0.9	29	20	121	23	5	3	0.116
T1 90 AW 044 L-005 4+00		15	1.1	34	19	139	14	9	4	0.133
T1 90 AW 044 L-006 5+00		12	0.9	41	17	105	13	9	3	0.120
T1 90 AW 044 L-007 6+00		13	0.7	45	13	129	8	<5	2	0.091
T1 90 AW 044 L-008 7+00		9	0.7	47	19	135	<5	6	3	0.083
T1 90 AW 044 L-009 8+00		9	0.7	41	15	121	9	8	3	0.080
T1 90 AW 044 L-010 9+00		6	0.7	39	17	123	17	8	3	0.081

File: Solomon-Mitchell

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DATE PRINTED: 12-SEP-90

PROJECT: 044 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM	Hg PPM
S1 90 ST 044 S001		<5	1.1	21	8	39	<5	<5	3	0.233
S1 90 ST 044 S002		15	1.0	12	8	49	5	<5	7	0.205
S1 90 ST 044 S003		7	0.9	22	15	44	<5	<5	4	0.193
T1 90 CC 044 L001		<5	1.2	44	39	365	44	6	4	0.212
T1 90 CC 044 L002		<5	1.1	44	44	395	24	8	4	0.278
T1 90 CC 044 L003		<5	0.9	47	26	247	25	6	4	0.119
T1 90 CC 044 L004		6	0.6	45	24	223	18	8	3	0.124
T1 90 CC 044 L005		24	0.7	55	28	211	28	6	3	0.104
T1 90 CC 044 L006		9	0.6	98	19	208	18	<5	3	0.087
T1 90 CC 044 L007		21	0.7	57	27	189	29	6	3	0.085
T1 90 CC 044 L008		16	0.8	52	26	173	34	7	3	0.093
T1 90 CC 044 L009		109	0.7	66	25	453	30	9	4	0.132
T1 90 ST 044 L001		<5	0.7	27	15	152	<5	<5	2	0.177
T1 90 ST 044 L005		24	1.8	87	45	270	43	<5	6	0.245
T1 90 ST 044 L006		5	0.9	72	24	182	23	<5	4	0.123
T1 90 ST 044 L007		9	0.8	53	22	166	15	6	3	0.099
T1 90 ST 044 L008		<5	0.6	45	15	145	17	<5	3	0.103
T1 90 ST 044 L009		<5	0.5	39	14	130	14	<5	2	0.097
T1 90 ST 044 L010		<5	0.7	41	18	123	13	<5	3	0.143
T1 90 ST 044 L011		21	0.7	68	37	186	13	8	3	0.106
T1 90 ST 044 L012		19	0.7	74	29	327	11	5	4	0.121
T1 90 ST 044 L013		15	0.7	61	28	292	20	6	4	0.087
T1 90 ST 044 L014		15	0.6	54	21	193	14	<5	3	0.105
T1 90 ST 044 L015		13	0.6	49	20	223	15	<5	4	0.112
T1 90 ST 044 L016		15	0.8	56	26	215	24	5	3	0.093
T1 90 ST 044 L017		<5	0.7	46	27	204	16	<5	3	0.097
T1 90 ST 044 L018		15	0.6	47	25	215	6	6	4	0.109
T1 90 ST 044 L019		15	0.6	45	23	212	24	<5	4	0.101
T1 90 ST 044 L020		15	0.6	43	22	219	16	<5	4	0.105
T1 90 X 044 L001 MOSS		14	0.6	52	24	170	21	5	4	0.128
T1 90 X 044 L002 MOSS		12	0.5	45	19	167	16	7	3	0.110
T1 90 X 044 L003 MOSS		17	0.7	55	25	221	15	6	4	0.097
T1 90 X 044 L004		28	0.8	58	25	237	27	10	2	0.114
T1 90 X 044 L005		37	0.5	33	12	112	13	8	4	0.120
T1 90 X 044 L015		12	0.3	17	13	102	23	8	3	0.079
T1 90 X 044 L016		18	0.8	24	11	232	28	<5	5	0.123
T1 90 X 044 L017		<5	0.4	11	6	95	13	<5	2	0.043
T1 90 X 044 L018		6	0.4	15	8	147	6	<5	3	0.070
T1 90 X 044 L019		6	0.5	32	12	135	6	6	3	0.154
T1 90 X 044 L020		15	0.5	39	18	152	7	5	5	0.102

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PROJECT: 044 PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM	Hg PPM
T1 90 X 044 L021		9	0.5	37	21	183	23	6	6	0.116
T1 90 X 044 L022		<5	0.5	40	15	173	15	<5	6	0.091
T1 90 X 044 L023		22	0.4	32	11	133	<5	<5	4	0.065
T1 90 X 044 L024		24	0.5	41	12	153	16	10	5	0.093

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SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM	Hg PPM
T1 90 ST 044 L-200		6	0.4	36	13	122	20	<5	3	0.070
T1 90 X 044 (PRE) T1 L-020 MOSS MATT		31	1.0	81	51	223	50	<5	4	0.155

APPENDIX IV

Soil and Stream Silt Sample Descriptions

KEEWATIN ENGINEERING INC.

STREAM SEDIMENTS

Project: 044 - Mikhail

Area (Grid):

Collectors: Aaron Wardwell

Results Plotted By:

Map: N.T.S.: 104 B/10E

Date: Aug. 27/90

Sample Number 90AW044	NOTES	SEDIMENT DATA					STREAM DATA						SPRING	DRY GULLY				
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width (metre)	Depth (cm)	Velocity							
L001	silt							NO	.5	4								
L002	silt							NO	1	5								
L003	silt							Yes	3	30	slow							
L004	silt							NO	.5									
L005	silt							NO										
L006	silt							Yes			Mod							
L007	silt							Yes	1		Mod							
L008	silt							Yes	2	8	slow							
L009	silt							Yes	2	5	slow							
L010	silt							Yes	3	2	Mod							

KEEWATIN ENGINEERING INC.

STREAM SEDIMENTS

Project: MIKHAIL 044 — Results Plotted By: _____

Area (Grid): SE corner - Creek traverse from 3500' — Map: _____ N.T.S.: 104 B/10

Collectors: B. McEntyre — Date: Aug/Sept 1990

Sample Number	NOTES	SEDIMENT DATA					STREAM DATA					SPRING	DRY GULLY				
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity						
90X044																	
01																	
02																	
03																	
04																	
05																	
015	small rivulets form 1m dia pool - start of watershed	—	—	50	—	50			1m	5cm	0	?					
016	Flow 180° e fallen tree - Porphyritic andesite & argillite bed.	20	10	60	—	10			1m	20cm	M						
017	Trib enters; flows 260° - organic stream bed (recent?)		5	45		50			40cm	5cm	S						
018	Flow 253° pool below 2M falls MOSS MATT	5		60		35			1.5m	30cm	F.						
019	Flow 230° bedrock - angular to SA float								1.5m	25cm	F						
020	Flow 240° angular to SA andesite	30	10	50		10			1.5m	25cm	M						
021	Flow 280° mossy banks - andesite float.								1.5m	25cm	M						
022	Flow 252° - bedrock; andesite breccia or fragmental	50	10	30		10			2m	30cm	F						
023	Flow 260° - boulder banks 1m	20	20	55		5			1.5m	25cm	F						
024	Flow 290° - angular to SA float 5-40cm	20	20	60					2m	30cm	F						

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Mikail 1st 044 — Results Plotted By: ____

Area (Grid): 1700' contour — Map: ____ N.T.S.: ____

Collectors: Scott Thompson 90ST044 — Date ____

Sample Number	Sample Location: Line	Sample Location: Station	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample	Soil Data: Horizon Development: Good	Soil Data: Horizon Development: Poor	Soil Data: Parent Material: Drift	Soil Data: Parent Material: Bedrock	Soil Data: Colour
														B	30	/				DRB
														B	35	/				DRB
S001		0+50	Obs Rock Frags					/						B	40	-				DRB
S002		1+00	"					/												
003		1+50	"																	
004																				

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Mikail #044
Area (Grid): 1900' Contour
Collectors: Celia Anderson KEC #044

Results Plotted By: _____
Map: _____ N.T.S.: 104 B 10/E
Date Sept 5 '90

Sample Number	Sample Location: Line	Sample Location: Station	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt D.C.	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample	Soil Data: Horizon Development Good	Soil Data: Horizon Development Poor	Soil Data: Parent Material Drift	Soil Data: Parent Material Bedrock	Soil Data: Colour
S001	1900'	0+00	40m South of creek - Loam Shit!!				-						-	A			/			Brown
002	"	0+50					/						-	A-B			/			Grey
003	"	1+00					/						-	A-B			/			GRB
004	"	1+50					/			/				B		/				ORB
005	"	2+00	20% Sub angular		W					/				B		/				GRB
006	"	2+50	10% " "		W					/				B		/				GRB
007	"	3+00			W					/				B		/				GRB
008	"	3+50			W					/				B		/				ORB
009	"	4+00	30% Sub angular		W					/				B		/				GRB
010	"	4+50	20% " "		W					/				B		/				GRB
011	"	5+00	20% Sub rounded		W					/				B		/				GRB
012	"	5+50	0 rock frag Creek		W					/				B		/				GRB
013	"	6+00	0 rock frag "		W					/				B		/				ORB
014	"	6+50	" "		S					/				B		/				GRB
015	"	7+00					/			/				B		/				GRB
016	"	7+50	0 rock frag "		W					/				R		/				GRB
017	"	8+00	" "		W					/				B		/				GRB
018	"	8+50	" "		W					/				B		/				GRB
019	"	9+00	20% Sub angular		W					/				B		/				GRB
020	"	9+50	0 rock frag		W					/				B		/				ORB
021	"	10+00	10% Sub rounded																	

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: MIKHAIL 044 — Results Plotted By: _____

Area (Grid): _____ — Map: _____ N.T.S.: _____

Collectors: S. THOMPSON — Date SEPT. 5 '90

Sample Number 90ST044	Sample Location: Line	Sample Location: Station	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt Bearing	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth in Horizon Sample	Soil Data: Horizon Development: Good	Soil Data: Horizon Development: Poor	Soil Data: Parent Material: SILT	Soil Data: Parent Material: SAND Bedrock	Colour
S201	2200'	0+00	Land @ 2620 in Meadow							40				B	45	✓			✓	MRB
S202	2190	0+50S	N of creek							40					45	✓			✓	MRB
S203	2200	1+00								N					40	✓		✓	✓	ORB
S204	"	50	bluff 5-10m high, 30m wide							N					40	✓		✓	✓	"
S205	"	2+00								310					40	✓		✓	✓	MRB
S206	"	50	large outcrop 10m high x 15m wide							310					30	✓		✓	✓	"
S207	2170	3+00								310					35	✓		✓	✓	"
S208	2200	50								290					40	✓		✓	✓	"
209	2180	4+00								240					40	✓		✓	✓	"
210	2130	50								145					30	✓		✓	✓	"
211	2060	5+00								150					35	✓		clay	✓	"
212	2120	50								190					35	✓		clay	✓	"
213	2150	6+00								"					35	✓		✓	✓	LRB
214	2200	50								210					40	✓		✓	✓	"
215	2180	7+00								180					35	✓		✓	✓	"
216	2160	50								180					40	✓		✓	✓	"
S217	2170	8+00								180				B	40	✓		✓	✓	MRB

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: MAIL

Area (Grid): 04/44

Collectors: ROBERT WILENS

Results Plotted By: RV

Map: _____ N.T.S.: _____

Date SEPT 5

Sample Number	Sample Location		Notes		Topography				Vegetation						Soil Data						
																	Horizon		Parent		
					Valley Bottom	Direction of slope	Hill Top	Level Ground	Heavily Wooded	Sparsely Wooded	Burnt	Logged -	Grassland	Swampy	Horizon Sampled	Depth to Horizon Sample	Good	Poor	Drift	Bedrock	Colour
90RV044	Line	Station	% org.	% coarse																	
S001	2700	0+00	5	75											B	20					DGRY
S002	2700	0+50	10	10												30					MRB
003	2700	1+00	10	10												30					
004	2700	1+50	5	10												30					
005	2700	2+00	10	10												30					
006	2700	2+50	20	15												30					
007	2670	3+00	10	10												30					
008	2620	3+50	20	10												30					
009	2600	4+00	15	10												25					
010	2600	4+50	10	20												30					
011	2600	5+00	15	10												30					
012	2600	5+50	20	10												25					
013	2600	6+00	15	10												30					
014	2640	6+50	10	10											B	30					MRB
015	2650	7+00	10	10																	

APPENDIX V

Rock Sample Geochemical Results

File Solomon-Mikhail

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V90-01859.0

DATE PRINTED: 12-SEP-90
PROJECT: 044

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM	Hg PPM
R2 90 ST 044 R3710		<5	0.6	156	<2	88	6	6	<1	0.011
R2 90 ST 044 R3711		8	0.5	73	15	203	12	<5	1	0.021
R2 90 CC 044 R3726		<5	4.9	103	10	2605	80	19	18	0.680
R2 90 CC 044 R3727		<5	0.6	14	10	42	8	<5	3	0.045
R2 90 CC 044 R3728		<5	0.4	14	8	78	8	<5	5	0.105
R2 90 PO 044 R4179		<5	0.6	41	11	86	<5	6	2	0.017
R2 90 PO 044 R4180		<5	1.4	26	32	196	27	<5	8	0.221
R2 90 PO 044 R4181		<5	1.2	22	27	98	26	<5	7	0.111
R2 90 PO 044 R4182		<5	<0.2	9	<2	173	<5	<5	<1	<0.010
R2 90 PO 044 R4183		<5	0.3	47	<2	100	<5	<5	<1	0.041
R2 90 PO 044 R4184		120	1.1	93	62	54	29	8	5	0.164

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 25-SEP-90

REPORT: V90-02072.0 | PROJECT: 044 | PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	As PPM	Sb PPM	Mo PPM	Hg PPM
R2 90 X 44 R-1891		<5	0.3	69	8	82	20	<5	<1	<0.010
R2 90 X 44 R-1892		<5	0.4	75	9	79	12	6	<1	<0.010
R2 90 X 44 R-1893		9	1.3	40	23	169	45	8	8	0.141
R2 90 X 44 R-1894		36	2.0	27	22	6	29	8	2	1.893
R2 90 ST 044 R-1941		<5	0.4	85	11	66	8	<5	1	0.030
R2 90 X 44 R-1974		10	3.0	73	23	169	81	7	6	0.405
R2 90 X 44 R-1975		7	1.5	150	24	534	7	<5	5	0.042
R2 90 X 44 R-1976		<5	4.4	140	95	7517	42	16	7	1.340

APPENDIX VI

Rock Sample Descriptions

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: MIKHAIL 044
Area (Grid):
Collectors: B. McIntyre

Results Plotted By:
Map: NTS: 104 B/10
Date: Aug/Sept 1990 Surface Underground

SAMPLE NUMBER 90X044R	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH) GRAB	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
1891	1620 Harrymel Crk, opposite MWH 14		✓					Feldspar Porphyry	Dyke or sill, argillic content, chlorite - ~ sulphides	
1892	1620' " " "		✓					"	" " " " "	
1893	1490' " " E bank		✓					Argillite	heavily sheared zone abov FP sill or dyke 5-10% PY.	
1894	1490' " " E bank		✓					F.P. sill or dyke	altered, silicified, some bleaching 5-10% PY	
1974	North Creek - N. Bdry		✓					Argillite	Folded, sheared, discrete bedding carries >2% PY diss'n	
1975	" " "		✓					dacite	breccia to pyroclastic, siliceous sediment, >2% Py healing.	
1976	" " "						✓	interm. volc	20cm angular, med to light grey, calcareous, 2-5% PY.	

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: MIKHAIL 044
Area (Grid):
Collectors: S. Thompson ST

Results Plotted By:
Map: NTS:
Date: 21-8-90 Surface Underground

SAMPLE NUMBER 90ST044	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH) GRAB	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
R3710	3120' in creek	ST	✓						pyritic; calcarious; grey/green/brown	
R3711	2800' in same creek	ST	✓						pyritic; siliceous; intermediate	
27-8-90										
R1937	2340' in same creek bed	ST	✓				✓		pyritic; siliceous; cherty	
R1938	1980' in creek bed	ST	✓						siliceous; cherty - quartz (yellow)	

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: Mikhail (044)
Area (Grid): South silt/geology trav
Collectors: Gibson / Anderson

Results Plotted By: AM Gibson
Map: _____ NTS: _____
Date: Aug 21 '90 Surface ✓ Underground _____

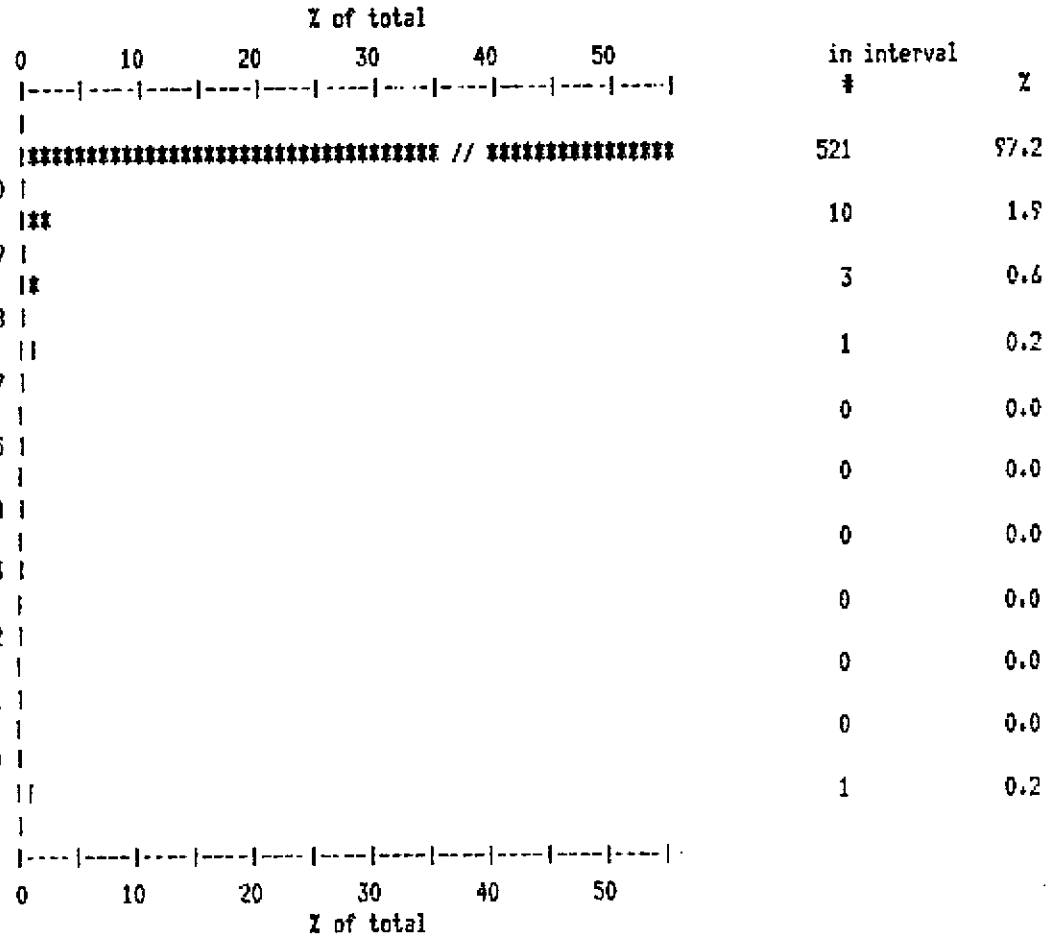
SAMPLE NUMBER	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH) GRAB	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
(90P044) R4179	South silt traverse ~3200'						✓	Andesite breccia	Fine grained andesite breccia with qtz matrix. Fragments with 1-2% Py, 1-2% pyrrhotite. Matrix also pyritic (ag. blebs 1-2%)	
R4180	South silt trav ~2800'		✓					Argillite	Sheared graphitic argillite from area of argillite/andesite contact	
R4181	South silt trav ~20m downstream from R4180. 2820'			✓				Argillite	Chip sample from Argillite/andesite contact 1m into argillite. Intensly Fe stained occasional py clasts 1-3cm	
R4182	Same as R4181			✓				Andesite	Chip sample from Argillite/Andesite contact 1m into andesite. Black Mn stained fractures.	
R4183	South silt trav. ~2800' 30m upstream of R3728		✓					Siltstone	Pyritic siltstone with blebs to 2.0cm of massive fine grained pyrite Bedding 015/30W	
R4184	South silt trav ~2550'			✓				Argillite	Chip sample from intermediate dyke/ Argillite contact into argillite. Argillite highly oxidized, pyritic.	
90CO44 R3726	3310' South silt trav		✓					Argillite	White oxide mottled texture, pyrite	
R3727	2820'		✓					Andesite	10% Sulphides, pyrite	
R3728	2750'		✓					Breccia	pyritic	

APPENDIX VII

Stream Silt and Soil Sample Histograms and Summary Statistics
(Au, Ag, As, Cu, Pb, Zn, Sb, Hg)

PROJECTS 044 & 082 (SOILS)
KEEWATIN ENGINEERING INC.

Histogram for Gold 30 grams (AU_30G) Values in PPB

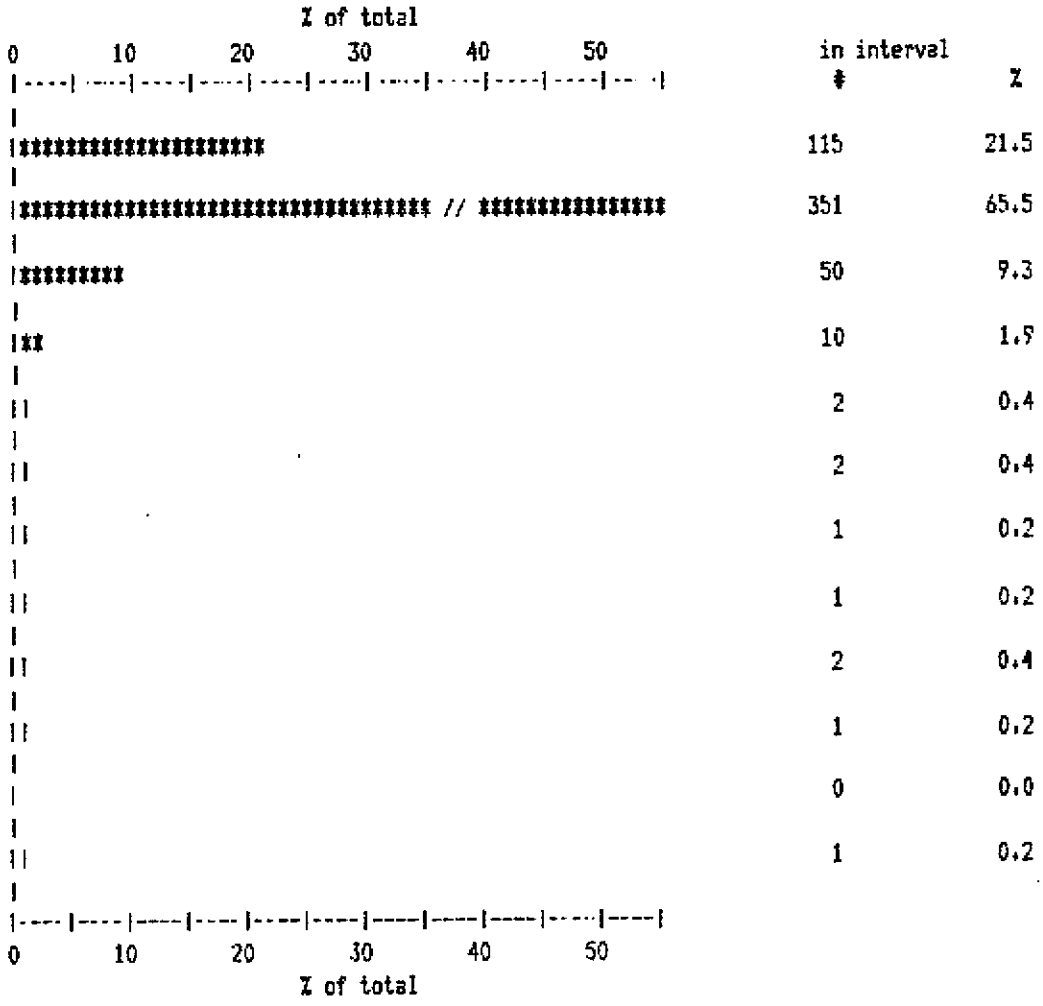


Summary Statistics

Number of samples	536	Mean value	7.1
Number of intervals	11	Standard Deviation	18.94
Minimum value	2.5	Coeff. of variation	2.680
Maximum value	393	Skewness	16.35
Median value	2.5	Kurtosis	320.487
Modal Range	less than 26.0		
Values in modal range	521 (97.2 % of total)		

PROJECTS 044 & 082 (SOILS)
KEEWATIN ENGINEERING INC.

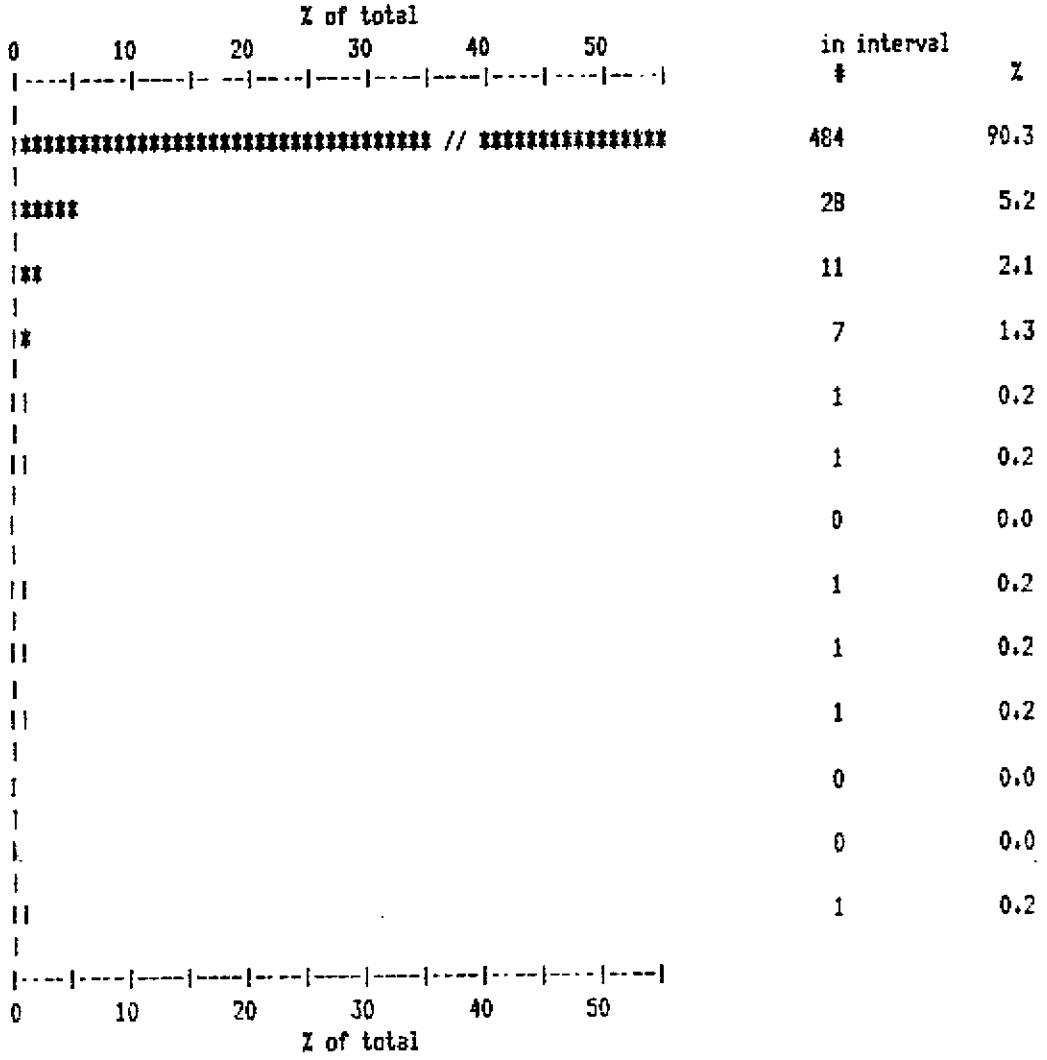
Histogram for Silver (AG) Values in PPM



Summary Statistics			
Number of samples	536	Mean value	1.23
Number of intervals	12	Standard Deviation	1.028
Minimum value	0.1	Coeff. of variation	0.838
Maximum value	11.0	Skewness	5.108
Median value	1.02	Kurtosis	35.3645
Modal Range	greater than 0.71 to less than 1.74		
Values in modal range	351 (65.5 % of total)		

PROJECTS 044 & 082 (SOILS)
KEEWATIN ENGINEERING INC.

Histogram for Arsenic (AS) Values in PPM

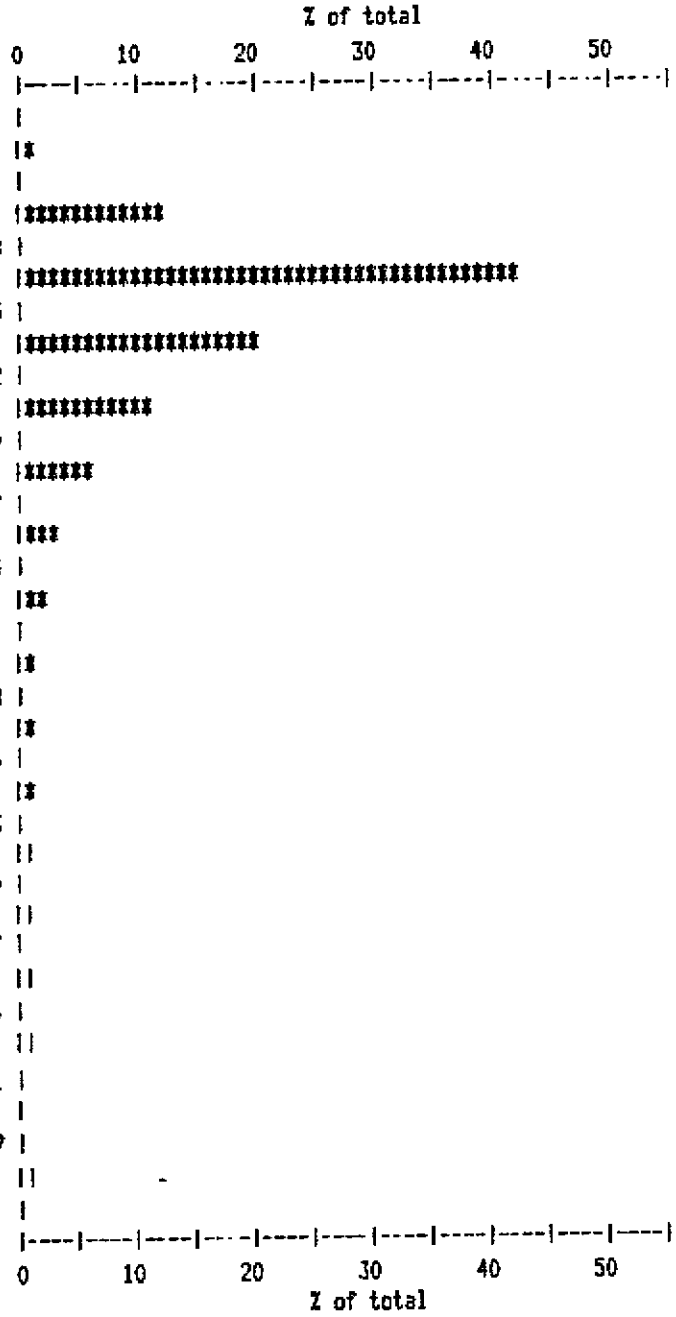


Summary Statistics

Number of samples	536	Mean value	28.1
Number of intervals	13	Standard Deviation	61.70
Minimum value	2.5	Coeff. of variation	2.199
Maximum value	742	Skewness	6.71
Median value	12.7	Kurtosis	57.096
Modal Range	less than 58.9		
Values in modal range	484 (90.3 Z of total)		

PROJECTS 044 & 082 (SOILS)
KEEWATIN ENGINEERING INC.

Histogram for Copper (CU) Values in PPM

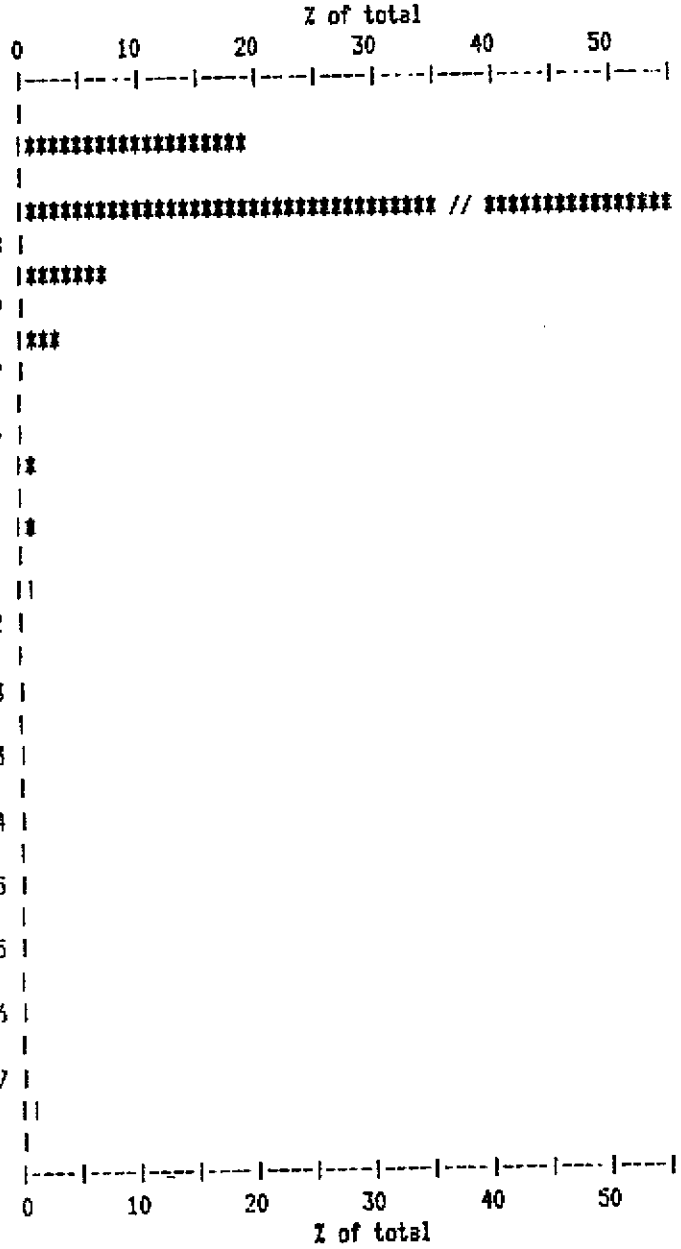


Summary Statistics

Number of samples	536	Mean value	28.9
Number of intervals	17	Standard Deviation	17.44
Minimum value	5.2	Coeff. of variation	0.604
Maximum value	145	Skewness	2.44
Median value	23.2	Kurtosis	21.997
Modal Range	greater than 15.8 to less than 24.5		
Values in modal range	225 (42.0 % of total)		

PROJECTS 044 & 082 (SOILS)
KEEWATIN ENGINEERING INC.

Histogram for Lead (PB) Values in PPM



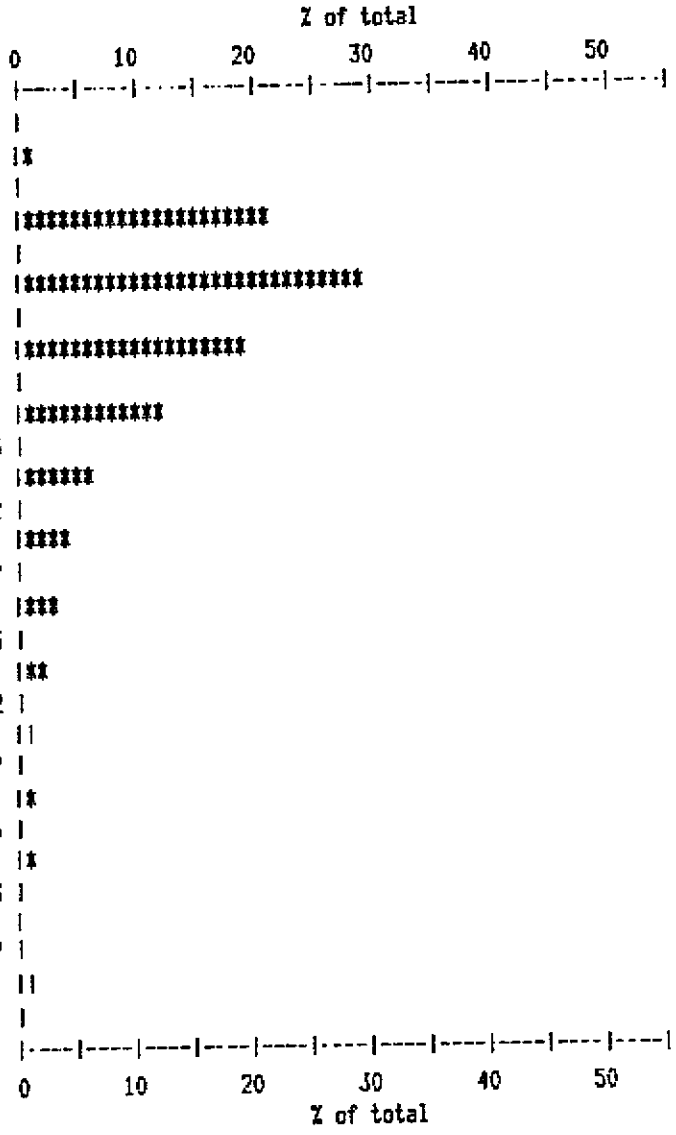
	in interval #	%
	104	19.4
9.7	369	68.8
25.8	39	7.3
41.9	16	3.0
57.9	0	0.0
74.0	3	0.6
90.1	3	0.6
106.1	1	0.2
122.2	0	0.0
138.3	0	0.0
154.3	0	0.0
170.4	0	0.0
186.5	0	0.0
202.5	0	0.0
218.6	0	0.0
234.7	1	0.2

Summary Statistics

Number of samples	536	Mean value	17.7
Number of intervals	16	Standard Deviation	16.07
Minimum value	1	Coeff. of variation	0.905
Maximum value	250	Skewness	7.28
Median value	14.7	Kurtosis	84.609
Modal Range	greater than 9.7 to less than 25.8		
Values in modal range	369 (68.8 % of total)		

PROJECTS 044 & 082 (SOILS)
KEEWATIN ENGINEERING INC.

Histogram for Zinc (ZN) Values in PPM



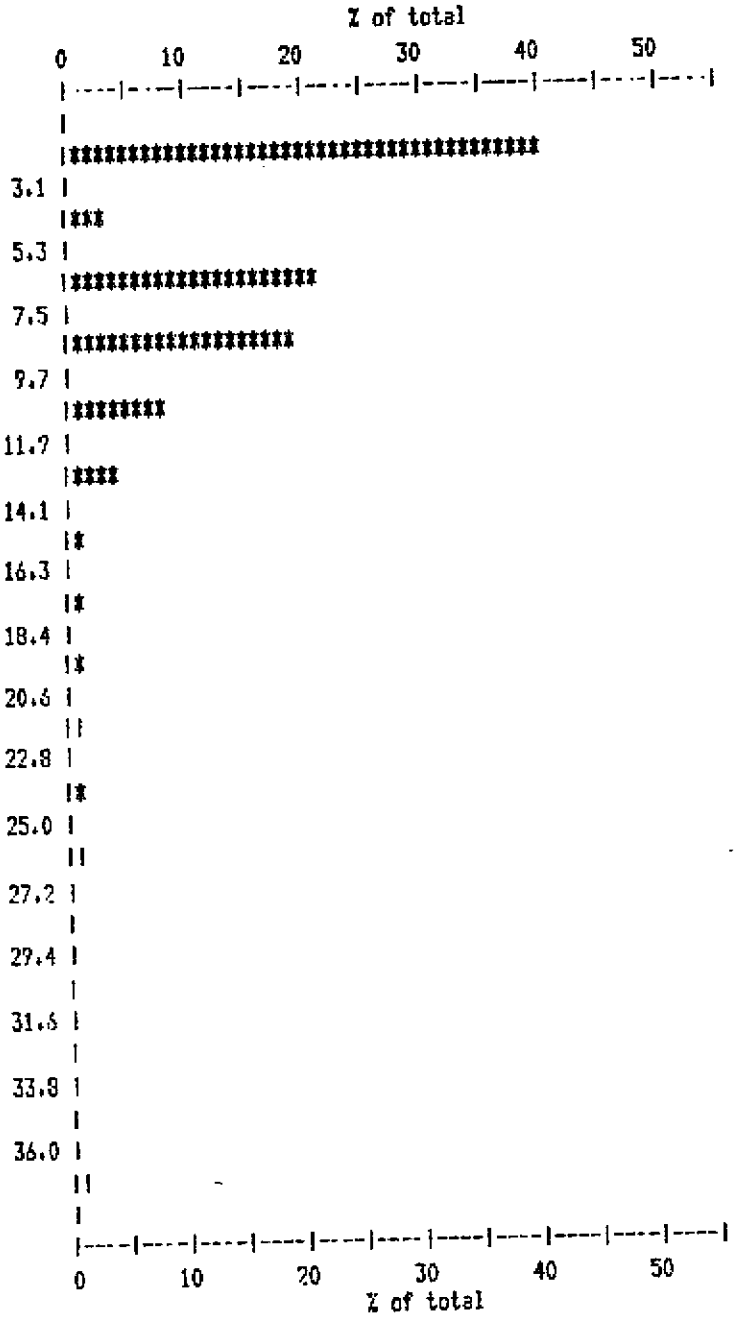
in interval #	%
7	1.3
112	20.9
156	29.1
102	19.0
65	12.1
34	6.3
22	4.1
17	3.2
9	1.7
2	0.4
6	1.1
3	0.6
0	0.0
1	0.2

Summary Statistics

Number of samples	536	Mean value	88.5
Number of intervals	14	Standard Deviation	49.36
Minimum value	18	Coeff. of variation	0.558
Maximum value	326	Skewness	1.58
Median value	74.6	Kurtosis	25.026
Modal Range	greater than 51.5 to less than 76.2		
Values in modal range	156 (29.1 % of total)		

PROJECTS 044 & 082 (SOILS)
KEEWATIN ENGINEERING INC.

Histogram for Antimony (SB) Values in PPM



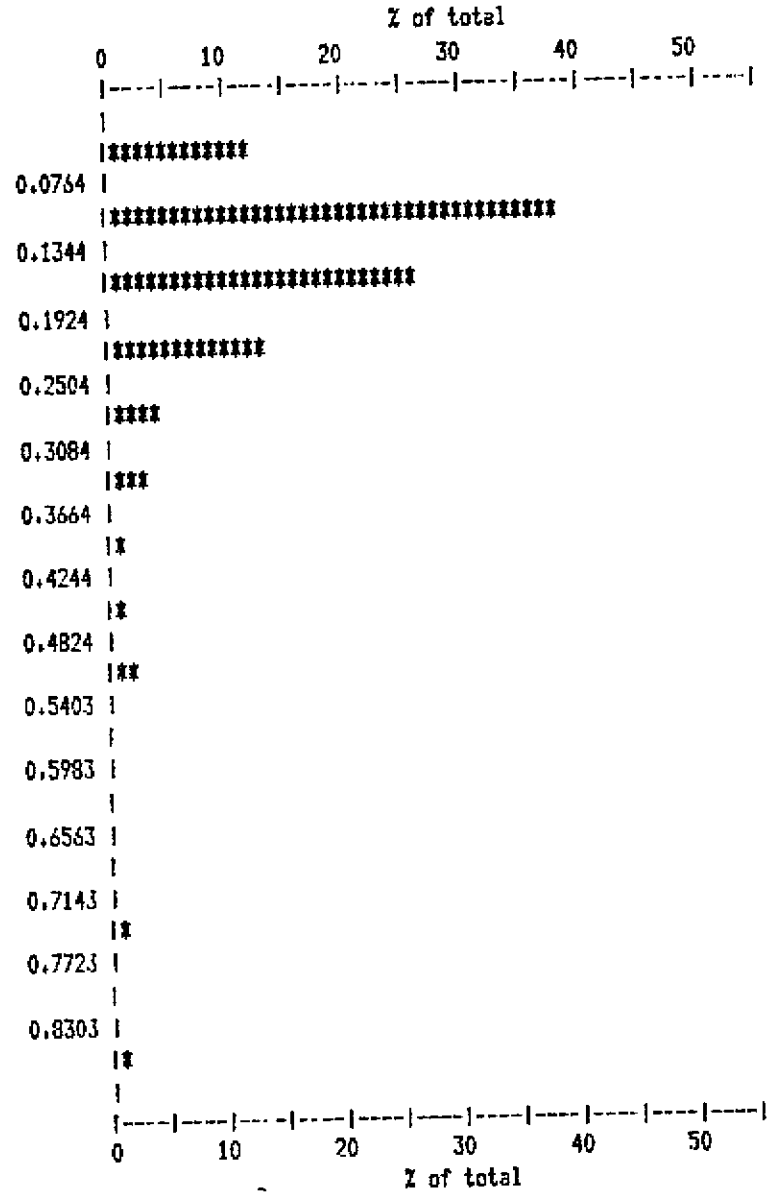
	in interval #	%
	216	40.3
3.1	18	3.4
5.3	113	21.1
7.5	101	18.8
9.7	44	8.2
11.7	19	3.5
14.1	8	1.5
16.3	6	1.1
18.4	4	0.7
20.6	1	0.2
22.8	3	0.6
25.0	2	0.4
27.2	0	0.0
29.4	0	0.0
31.6	0	0.0
33.8	0	0.0
36.0	1	0.2

Summary Statistics

Number of samples	536	Mean value	6.4
Number of intervals	17	Standard Deviation	4.39
Minimum value	2.5	Coeff. of variation	0.691
Maximum value	38	Skewness	1.90
Median value	6	Kurtosis	11.931
Modal Range	less than 3.1		
Values in modal range	216 (40.3 % of total)		

PROJECTS 044 & 082 (SOILS)
KEEWATIN ENGINEERING INC.

Histogram for Mercury (HG) Values in PPM



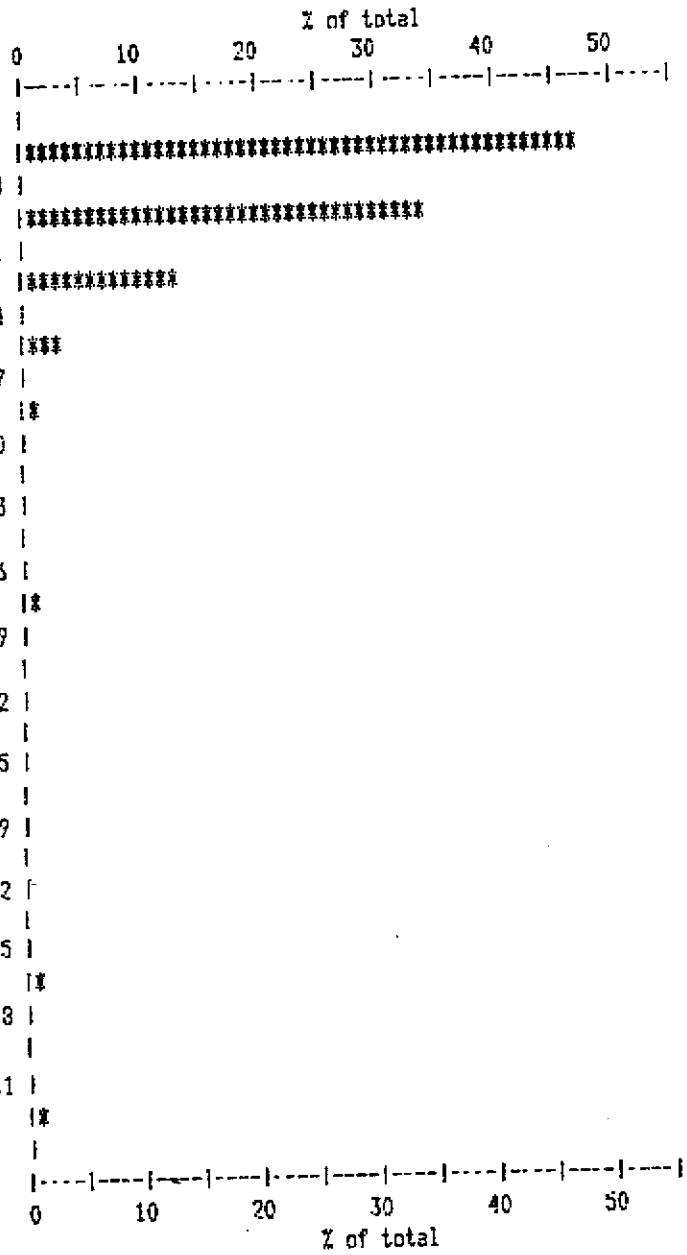
	in interval #	%
0.0764	23	11.8
0.1344	74	37.9
0.1924	51	26.2
0.2504	25	12.8
0.3084	7	3.6
0.3664	6	3.1
0.4244	1	0.5
0.4824	1	0.5
0.5403	4	2.1
0.5983	0	0.0
0.6563	0	0.0
0.7143	0	0.0
0.7723	2	1.0
0.8303	0	0.0
	1	0.5

Summary Statistics

Number of samples	195	Mean value	0.1634
Number of intervals	15	Standard Deviation	0.11599
Minimum value	0.042	Coeff. of variation	0.710
Maximum value	0.848	Skewness	3.0096
Median value	0.135	Kurtosis	15.7886
Modal Range	greater than 0.0764 to less than 0.1344		
Values in modal range	74 (37.9 % of total)		

PROJECTS 044 & 082 (SEDIMENTS)
KEEWATIN ENGINEERING INC.

Histogram for Gold 30 grams (AU_30G) Values in PPB



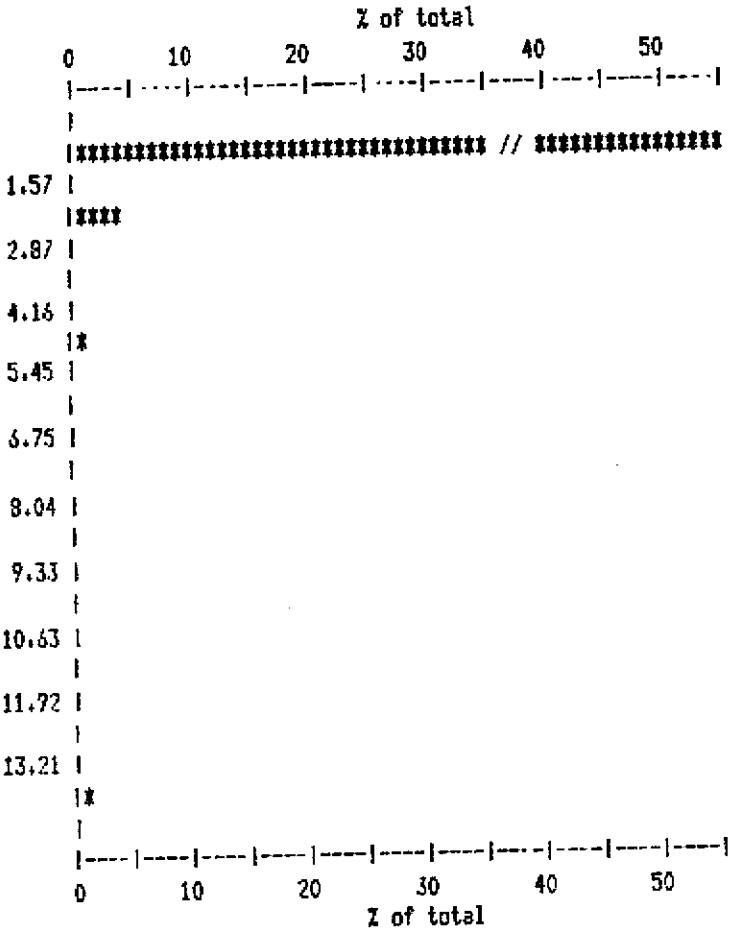
	in interval #	%
7.8	56	46.7
16.1	41	34.2
24.4	15	12.5
32.7	4	3.3
41.0	1	0.8
49.3	0	0.0
57.6	0	0.0
65.9	1	0.8
74.2	0	0.0
82.5	0	0.0
90.9	0	0.0
99.2	0	0.0
107.5	1	0.8
115.8	0	0.0
124.1	1	0.8

Summary Statistics

Number of samples	120	Mean value	11.9
Number of intervals	16	Standard Deviation	16.62
Minimum value	2.5	Coeff. of variation	1.395
Maximum value	129	Skewness	4.81
Median value	8.7	Kurtosis	26.051
Modal Range	less than 7.8		
Values in modal range	56 (46.7 % of total)		

PROJECTS 044 & 082 (SEDIMENTS)
KEEWATIN ENGINEERING INC.

Histogram for Silver (AG) Values in PPM



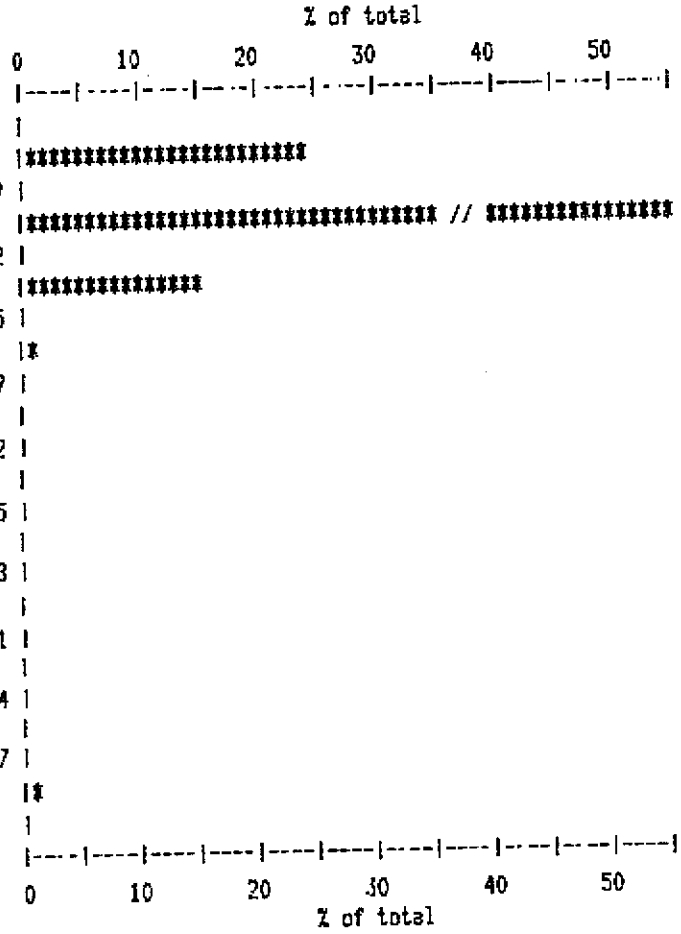
	in interval #	%
	113	94.2
1.57	5	4.2
2.87	0	0.0
4.16	1	0.8
5.45	0	0.0
6.75	0	0.0
8.04	0	0.0
9.33	0	0.0
10.63	0	0.0
11.72	0	0.0
13.21	1	0.8

Summary Statistics

Number of samples	120	Mean value	0.93
Number of intervals	11	Standard Deviation	1.293
Minimum value -	0.3	Coeff. of variation	1.395
Maximum value	14.1	Skewness	8.955
Median value	0.7	Kurtosis	85.0921
Modal Range	less than 1.57		
Values in modal range	113 (94.2 % of total)		

PROJECTS 044 & 082 (SEDIMENTS)
KEEWATIN ENGINEERING INC.

Histogram for Arsenic (AS) Values in PPM



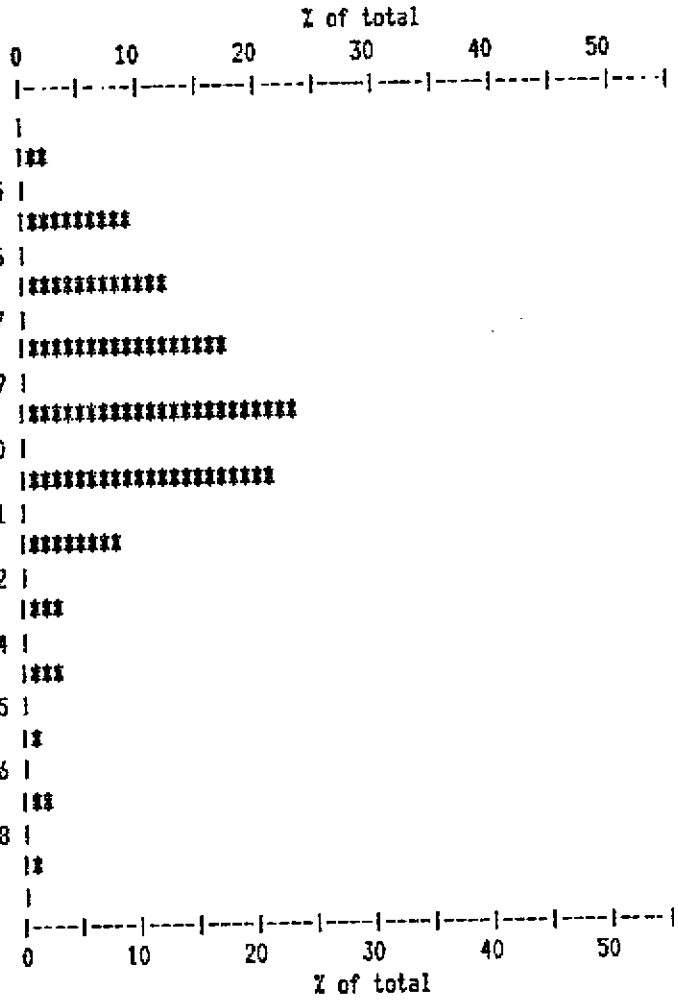
	in interval #	%
	29	24.2
9.9	71	59.2
34.2	18	15.0
58.5	1	0.8
82.7	0	0.0
107.2	0	0.0
131.5	0	0.0
155.8	0	0.0
180.1	0	0.0
204.4	0	0.0
228.7	1	0.8

Summary Statistics

Number of samples	120	Mean value	22.1
Number of intervals	11	Standard Deviation	24.31
Minimum value	2.5	Coeff. of variation	1.102
Maximum value	243	Skewness	6.36
Median value	17.2	Kurtosis	52.346
Modal Range	greater than 9.9 to less than 34.2		
Values in modal range	71 (59.2 % of total)		

PROJECTS 044 & 082 (SEDIMENTS)
KEEWATIN ENGINEERING INC.

Histogram for Copper (CU) Values in PPM



in interval #	%
2	1.7
11	9.2
14	11.7
20	16.7
28	23.3
25	20.8
9	7.5
4	3.3
3	2.5
1	0.8
2	1.7
1	0.8

Summary Statistics

Number of samples	120	Mean value	41.9
Number of intervals	12	Standard Deviation	16.26
Minimum value	10.8	Coeff. of variation	0.388
Maximum value	98	Skewness	0.67
Median value	41	Kurtosis	138.198
Modal Range	greater than 37.9 to less than 46.0		
Values in modal range	28 (23.3 % of total)		

PROJECTS 044 & 082 (SEDIMENTS)
KEEWATIN ENGINEERING INC.

Histogram for Lead (PB) Values in PPM

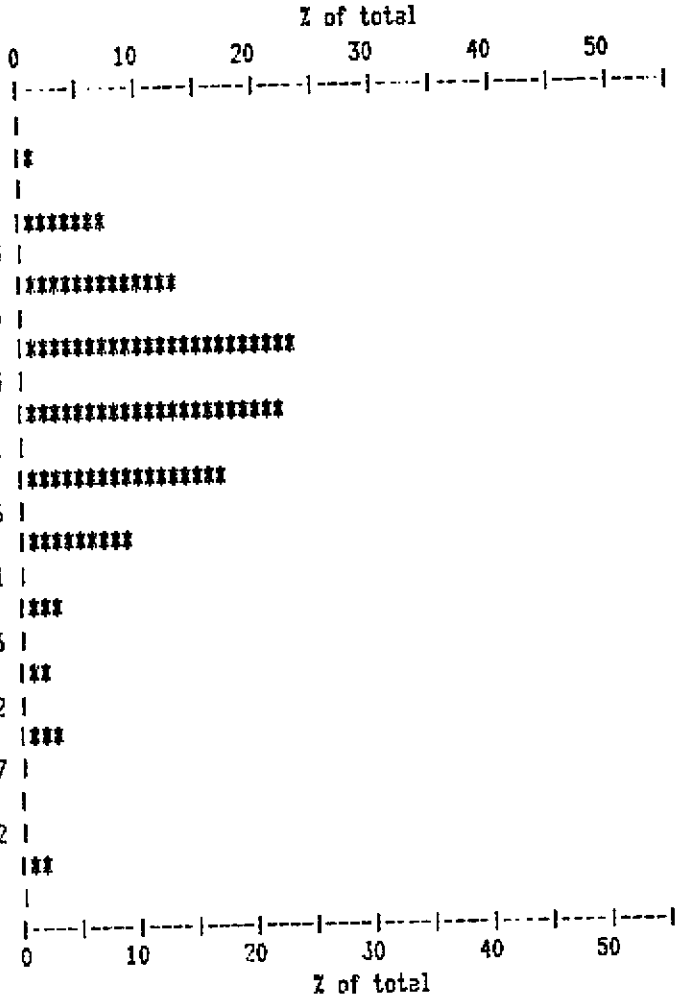
	in interval #	%
	2	1.7
3.6	5	4.2
8.0	15	12.5
12.4	32	26.7
16.8	29	24.2
21.2	19	15.8
25.6	9	7.5
30.0	2	1.7
34.4	1	0.8
38.8	1	0.8
43.2	2	1.7
47.6	3	2.5

Summary Statistics

Number of samples	120	Mean value	19.0
Number of intervals	12	Standard Deviation	8.80
Minimum value	2.3	Coeff. of variation	0.463
Maximum value	51	Skewness	1.41
Median value	17.6	Kurtosis	62.398
Modal Range	greater than 12.4 to less than 16.8		
Values in modal range	32 (26.7 % of total)		

PROJECTS 044 & 082 (SEDIMENTS)
KEEWATIN ENGINEERING INC.

Histogram for Zinc (ZN) Values in PPM



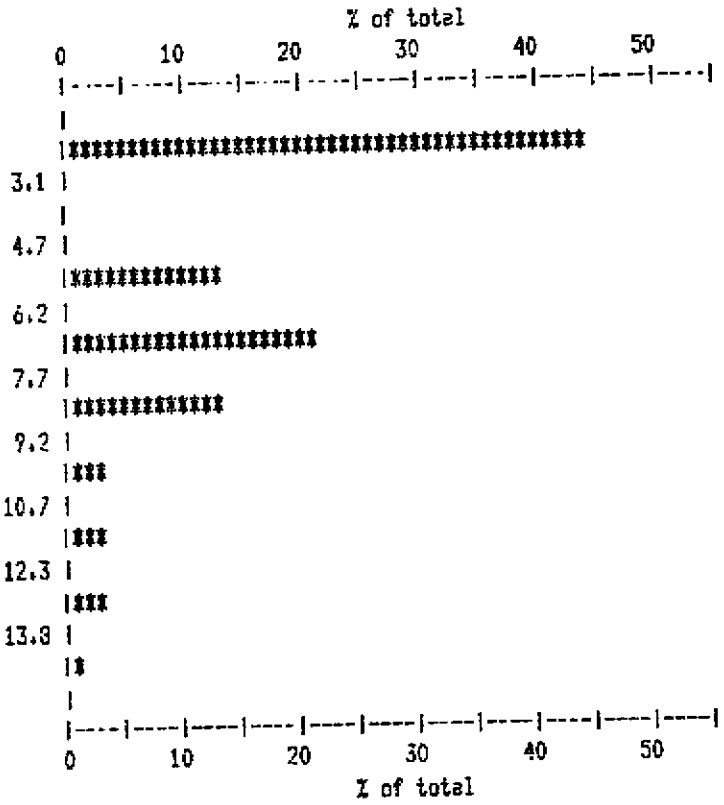
	in interval #	%
	1	0.8
	8	6.7
	15	12.5
	28	23.3
	26	21.7
	20	16.7
	11	9.2
	4	3.3
	2	1.7
	3	2.5
	0	0.0
	2	1.7

Summary Statistics

Number of samples	120	Mean value	181.3
Number of intervals	12	Standard Deviation	79.05
Minimum value	34	Coeff. of variation	0.436
Maximum value	472	Skewness	1.07
Median value	170	Kurtosis	81.136
Modal Range	greater than 122.0 to less than 161.5		
Values in modal range	28 (23.3 % of total)		

PROJECTS 044 & 082 (SEDIMENTS)
KEEWATIN ENGINEERING INC.

Histogram for Antimony (SB) Values in PPM



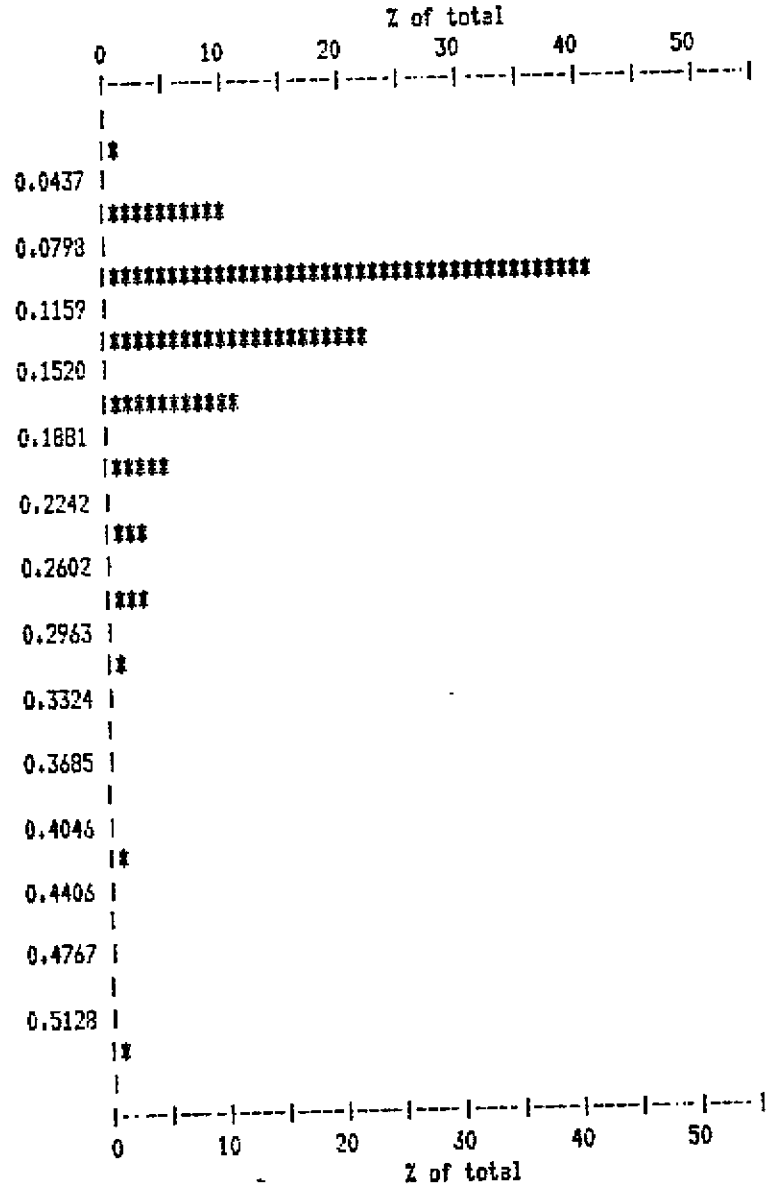
	in interval #	%
less than 3.1	53	44.2
3.1 to 4.7	0	0.0
4.7 to 6.2	15	12.5
6.2 to 7.7	25	20.8
7.7 to 9.2	16	13.3
9.2 to 10.7	4	3.3
10.7 to 12.3	3	2.5
12.3 to 13.8	3	2.5
13.8 and over	1	0.8

Summary Statistics

Number of samples	120	Mean value	5.4
Number of intervals	9	Standard Deviation	3.04
Minimum value	2.5	Coeff. of variation	0.560
Maximum value	15	Skewness	0.66
Median value	5.7	Kurtosis	21.455
Modal Range	less than 3.1		
Values in modal range	53 (44.2 % of total)		

PROJECTS 044 & 082 (SEDIMENTS)
KECWATIN ENGINEERING INC.

Histogram for Mercury (HG) Values in PPM



	in interval #	%
0.0437	1	1.0
0.0798	10	10.1
0.1159	41	41.4
0.1520	22	22.2
0.1881	11	11.1
0.2242	5	5.1
0.2602	3	3.0
0.2963	3	3.0
0.3324	1	1.0
0.3685	0	0.0
0.4046	0	0.0
0.4406	1	1.0
0.4767	0	0.0
0.5128	0	0.0
	1	1.0

Summary Statistics

Number of samples	99	Mean value	0.1339
Number of intervals	15	Standard Deviation	0.07216
Minimum value	0.043	Coeff. of variation	0.539
Maximum value	0.532	Skewness	2.6622
Median value	0.114	Kurtosis	36.7553
Modal Range	greater than 0.0798 to less than 0.1159		
Values in modal range	41 (41.4 % of total)		

APPENDIX VIII

Analytical Procedures

ANALYTICAL PROCEDURES

The Bondar-Clegg analytical methods are described as follows:

Sample Preparation

Silt & Soil: Dry and sieve through 80 mesh screens. Gold values are determined on 30 gram, representative sample of minus 80 fraction by fire assay with AA finish; remaining elements are determined using 0.6 gram sample of minus 80 fraction by hot aqua regia digestion followed by ICP.

Rocks: Dry and crush to minus 150 mesh; analysis made on minus 150 fraction by methods described above.

Geochemical Analysis: Gold is determined on a test sample of 30 g using Fire Assay Lead Collection pre-concentration. The bead is dissolved in nitric acid and hydrochloric acid and run by Atomic Absorption.

Mercury is determined on a test sample of 0.6 g. The sample is digested by aqua regia and bulked to 12 ml. The solution is then run by Cold Vapour Atomic Absorption.

All other elements are determined on a test sample of 0.6 g. The sample is digested by aqua regia and bulked to 12 ml. The solution is then run by ICP.

Fire Assay Procedure for Au: A prepared sample of one assay ton (29.166 grams) is mixed with a flux which is composed mainly of lead oxide. The proportions of the flux components (the litharge, soda, silica, borax glass, and flour) are adjusted depending upon the nature of the sample. Silver is added to help collect the gold. The samples are fused at 1950 F until a clear melt is obtained. The 30-40 gram lead button that is produced contains the precious metals. It is then separated from the slag. Heating in the cupellation furnace separates the lead from the noble metals. The normal-sized precious metal beads that are produced are transferred to test tubes and dissolved with aqua-regia. This solution is analyzed using Atomic Absorption by comparing the absorbance of these solutions with that of standard solutions. In the case of high grade samples, the precious metal bead is parted to separate the silver and the remaining gold is weighed.

Comments: As part of the routine quality control we run a duplicate analysis for about 12% of the samples. Also, all samples which are over 0.20 opt on the original fusion are run again to verify the results. If a sample gives erratic results, such as 0.10, 0.020, 0.30, we will indicate this on the report. We suggest

the results. If a sample gives erratic results, such as 0.10, 0.020, 0.30, we will indicate this on the report. We suggest that a new split should be taken from the reject for preparation and analysis by our metallics sieve procedure. These assay results will always be signed by the registered assayer.

Contamination Prevention: The test tubes and cupels are used only once so that there is no possibility of cross contamination. The fusion crucibles are cleared before re-use by discarding any which had high samples in them. During the analysis a blank solution is run between each sample to ensure that there is no carry over.

Determination of Arsenic by Borohydride Generation:

Samples of 0.5 grams in weight are digested in borosilicate glass test tubes, with concentrated nitric and hydrochloric acids. These tubes are heated in a 90 degree Celsius water bath for two and one-half hours. The sample is then diluted with 14% HCl and mixed. A 0.5 ml aliquot is taken from this solution and HCl, deionized water, and potassium iodide are added. The resulting mixture is allowed to sit for one hour, after which it is run through a hydride generation system. In this system, the solution is reduced with sodium borohydride, releasing arsenic as arsine gas. The arsine gas is then swept into a quartz furnace mounted on a flame AA unit. The absorbance is recorded and compared to a standard series to determine the amount of arsenic present.

Quality Control: Standards, repeats, and blanks are run with each batch of samples. These are carefully checked, and reweighs of samples are ordered if necessary. High arsenic results are also checked by running the original solution by flame AA and comparing the results from the two procedures.

MIKHAIL 4
MIKHAIL 1
Felsic Volcanic
MCR 8 (159 ppb Au, 1626 ppm As)
Andesite
MYR 05 (0.08% Cu)
Sedimentary Rocks
MWH 5 (8.6ppmAg, 1287ppm Cu, 3463ppm Zn)
MWH (5ppm Ag, 861ppm Cu, 2085ppm Zn)
Chert; fragmental
Chert
Andesite Tuff; fragmental
Pyritic Shales Argillite Tuffaceous Mudstone congl.
XR1974
Felsic Volcanics
XR1976
XR1975
MWH 9 (19.6 ppm Ag, 1601 ppm Cu, 2975 ppm Zn)
MWH 8 (145 ppb Au, 4.8 ppm Ag, 752 ppm Cu, 2124 ppm Zn)
Grades to conglomerate
Dacite fragmental (intermediate) + feldspar (?)
Intermediate to felsic volc. 2-5% Py, Calcite veining siliceous, sericitic
Tuffaceous Breccia to conglomerate
Carbonate veining graphitic sections
MWH 10 (1151 ppm Ba)
MWH (1.5 ppm Ag)
Primarily fragmental Tuff with minor massive Andesite Tuffs & Flows
HARRYMEL CREEK
Andesite Tuff
Massive Magnetite
Limestone
MPR 26 (0.17% Ba)
KYR 37 (0.11% Ni)
Interbedded Siltstone / Mudstone Argillites
Sandstone
MWHIA
XR1892
XR1891
STR 1941
Feldspar Porphyry dike cuts feldspar porphyry stock
Chloritic, minor Py, slickensides
MWH6 (>2000 ppm Ba)
MWH7 (1709 ppb Au) (1.7 ppm Ag)
KZR 91 (0.16% Cu)
KOR 85 (0.17% Cu)
KZR 90 (0.15% Cu)
KOR87 (0.20% Cu)
10-15% Po, Py, Cpy
KZR 92 (0.14 Cu)
UNUK - HARRYMEL FAULT ZONE
90 STR23710
90 CCR 3726
Qtz / calcite stringer zone
Vesicular andesite (carbonate infilled)
agglomerate
MYR1 (120 ppb Au)
Sheared Argillite
MWH (220 ppb Au, 2.8 ppm Ag, 11 331 ppm Zn)
Primarily Fragmental Tuff with minor massive Andesite Flows & Tuffs
Heavily sheared black graphitic argillite folding
XR 1893
XR 1894
Altered feldspar porphyry silicification, bleaching >5 <10% Py
Argillite / Argillite conglomerate
Andesite tuffaceous content fragmented, brecciated
cherty, brecciated andesite (?) healed by quartz and andesite
Oxidized Arg.
Intermediate tuff band
Andesite fragmental
andesite breccia minor Py in clasts
Sheared Argillite
GEOLOGICAL BRANCH
ASSESSMENT REPORT
20,633

LEGEND

Volcanic Sedimentary Rocks

Pleistocene to Recent

[6] Basalt flows and tephra: dark brown to black, minor pillow lavas

Lower Jurassic (Pliensbachian to Toarcian)

[3] Betty Creek Formation: pyroclastic-epiclastic sequence; heterogeneous, grey-green massive to bedded, pyroclastics and sedimentary rocks (black, thinly bedded siltstone, shale, and argillite)

- 3a. Green and grey massive to poorly bedded andesite
- 3t. Black thinly bedded siltstone, shale, and argillite
- 3f. White weathering, felsic tuffs and breccias with quartz stringers

Upper Triassic to Lower Jurassic (Norian to Sinemurian)

[2] Unuk River Formation: andesite sequence; green and grey, intermediate to mafic volcaniclastics and flows, with locally thick interbeds of fine-grained immature sediments, minor conglomerates, and limestone

Upper Triassic (Carnian to Norian)

[1] Stuhini Group: brown, black, grey; mixed sedimentary rocks (siltstone, shale, argillite, limestone, chert), with minor mafic to intermediate volcanics and volcaniclastic rocks

Intrusive Rocks

Tertiary

[13] Post-Tectonic Dykes

[13b] King Creek Dyke Swarm: feldspar porphyry dacite, andesite, diabase, and hornblende to quart diorite; limits of the unit shown indicate where the dykes exceed 50% of the exposed bedrock

[13c] Hawilson Monzonite - fine grained monzonite

[12] Coast Plutonic Complex: hornblende-biotite-quartz diorite to granodiorite.

Jurassic

[9] Unuk River Diorite Suite:
- a) Max: biotite-hornblende diorite, quartz diorite, granodiorite
- b) Melvelle: hornblende-biotite diorite, quartz diorite

Metamorphic Rocks

Metamorphic equivalents of Units 1, 2, or 3

[8]
- a) hornblende, mylonite gneiss, mylonite
- b) Unuk-Harrymel Fault Zone, stongly sheared rock within fault zone

SYMBOLS

- Geological contact (observed, assumed)
- Bedding with dip
- Foliation
- Regional anticline
- Fault (defined, assumed)
- Airphoto lineament
- Regional stream silt sample site (Au ppb, Ag ppm, As ppm, Sb ppm)
- Minfile mineral occurrence
- Rock sample location - outcrop ▲ 1989 (Au ppb, Ag ppm)
- Soil sample location
- Stream silt sample location
- Heavy mineral sample location 1989
- Trench

SOLOMON RESOURCES LTD.

MIKHAIL PROJECT
1990 GEOLOGY &
ROCK SAMPLES

DATE: SEPT. 1990	NTS: 104 B/10
PROJECT: MIKHAIL	
SCALE: 1:5000	0 50 100 150 200 250 METRES
KEEWATIN ENGINEERING INC.	MAP No. 1

MIKHAIL 4

MIKHAIL 1

HARRYMEL CREEK

90RV044 S001 ⊙ 26, 1.7, 64 [218 ppm Zn]
S002 ⊙ 10, 3.6, 46 [154 ppm Zn]
S003 ⊙ 18, 3.0, 45 [173 ppm Zn]
S004 ⊙ 15, 1.5, 30 [158 ppm Zn]
S005 ⊙ 9, 2.5, 31 [174 ppm Zn]
S006 ⊙ 9, 1.4, 10
S007 ⊙ <5, 2.3, 9
S008 ⊙ 6, 0.2, <5
S009 ⊙ N.S
90KL028A 31, 1.0, 80 [228 ppm Zn]
S010 ⊙ 7, 1.7, 42 [186 ppm Zn]
S011 ⊙ 7, 0.9, 16
S012 ⊙ <5, 1.0, 14 [184 ppm Zn]
S013 ⊙ <5, 1.4, 6
S014 ⊙ 6, 1.6, 6
90RV044 S015 ⊙ 5, 1.4, <5

90CC044 L021 □ 13, 0.8, 11
90ST044 S201 ⊙ 15, 0.8, <5
S202 ⊙ 6, 1.9, 12
S203 ⊙ 5, 1.0, <5
L022 □ 10, 0.9, 40
S204 ⊙ <5, 0.9, <5
S205 ⊙ 17, 1.1, 34
S206 ⊙ <5, 1.0, 11
S207 ⊙ 7, 0.9, 1.0, 13
S208 ⊙ <5, 1.3, <5
S209 ⊙ 6, 1.1, 7
S210 ⊙ 6, 1.4, 9
S211 ⊙ 6, 1.2, 36
S212 ⊙ 9, 0.7, 6
S213 ⊙ <5, 1.7, 24
S214 ⊙ 7, 1.1, <5
S215 ⊙ 8, 0.9, 6
S216 ⊙ 5, 1.9, 24
90ST044 S217 ⊙ 11, 1.2, 23
S001 ⊙ <5, 1.4, 8
S002 ⊙ 8, 1.1, 8
S003 ⊙ 7, 0.7, 16
S004 ⊙ <5, 1.1, 6
S005 ⊙ <5, 1.0, 12
S006 ⊙ <5, 1.1, 7
S007 ⊙ 7, 1.8, 18
S008 ⊙ 9, 1.1, 7
S009 ⊙ 6, 1.3, <5
S010 ⊙ 6, 1.5, 9
S011 ⊙ 5, 1.7, 18
S012 ⊙ 11, 1.1, 32
S013 ⊙ 6, 1.1, <5
S014 ⊙ <5, 1.5, 8
S015 ⊙ 6, 1.4, 11
S016 ⊙ <5, 1.3, 7
S017 ⊙ <5, 1.6, 16
S018 ⊙ <5, 1.0, 7
S019 ⊙ <5, 2.4, 17
S020 ⊙ <5, 1.4, <5
90CC044 S021 ⊙ <5, 1.7, 41

90AW044 L001 □ 8, 1.5, 8 [203 ppm Zn]
L002 □ 12, 1.7, 17 [252 ppm Zn]
L003 □ 12, 0.9, 14
L004 □ 9, 0.9, 23
90STL200 □ 6.0.4, 20
90AW044 L010, 0.7, 17
L009 □ 9, 0.7, 9
L008 □ 9, 0.7, <5
L007 □ 13, 0.7, 8
L006 □ 12, 0.9, 13
L005 □ 15, 1.1, 14
90ST044 L005 □ 24, 1.9, 43 [320 ppm Zn]
L006 □ 5, 0.9, 23
L007 □ 9, 0.9, 15
L008 □ 5, 0.4, 14
L010 □ 5
L009 □ 5, 0.9, 14
L011 □ 21, 0.7, 13
L012 □ 19, 0.7, 11 [327 ppm Zn]
90CC044 L001 □ <5, 1.2, 44 [365 ppm Zn]
L002 □ <5, 1.1, 24 [395 ppm Zn]
L013 □ 15, 0.7, 22 [239 ppm Zn]
L003 □ <5, 0.9, 25 [247 ppm Zn]
L004 □ 6, 0.4, 18 [123 ppm Zn]
L014 □ 15, 0.4, 16 [139 ppm Zn]
L005 □ 24, 0.7, 28 [211 ppm Zn]
L006 □ 9, 0.4, 18 [208 ppm Zn]
L015 □ 13, 0.6, 12 [233 ppm Zn]
L007 □ 21, 0.7, 29 [184 ppm Zn]
L016 □ 15, 0.8, 24 [215 ppm Zn]
L008 □ 16, 0.9, 24 [173 ppm Zn]
L017 □ 5, 0.7, 16 [146 ppm Zn]
90CC044 L009 □ 109, 0.7, 30 [453 ppm Zn]
L018 □ 15, 0.4, 6 [128 ppm Zn]
L019 □ 15, 0.6, 16 [219 ppm Zn]
XL005 □ 37, 0.5, 13
XL003 □ [231 ppm Zn]
XL004 □ 28, 0.8, 27 [257 ppm Zn]
STL020 □ [219 ppm Zn]
XL024 □ 24, 0.5, 16
90ST044 L001 □ 5
XL023 □ 22, 0.4, <5
XL022 □ <5, 0.2, <5
XL021 □ 9, 0.5, 23
XL020 □ 15, 0.5, 7
XL019 □ 6, 0.5, 6
XL018 □ 6, 0.4, 6
XL017 □ <5, 0.4, 13
XL016 □ 18, 0.9, 28 [233 ppm Zn]
XL015 □ 18, 0.8, 23
XL001 □ 14, 0.6, 21
XL002 □ 12, 0.8, 16
90ST044 L003 ⊙ 7, 0.9, <5
90ST044 L004 ⊙ 15, 1.0, <5
90ST044 L002 ⊙ 45, 1.1, <5

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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LEGEND

S001 ⊙ 26 Soils

L018 □ 15 Silts

Au-ppb, Ag-ppm, As-ppm [as described]

SOLOMON RESOURCES LTD.

MIKHAIL PROJECT

1990 SOILS & SILTS

DATE: SEPT. 1990	NTS: 104B/10
PROJECT: MIKHAIL	
SCALE: 1:5000	0 50 100 150 200 250 METRES
KEEWATIN ENGINEERING INC.	MAP No. 2