87-407-16333
7/88

GEOLOGICAL, GEOCHEMICAL

AND GEOPHYSICAL REPORT

ON THE

KEMESS PROPERTY

Omineca Mining Division

British Columbia

Claim Name:	NEW KEMESS No. 1	Record No.	43
	NEW KEMESS No. 2		44

Latitude: 57° ~~04'~~ 03'48" North   Longitude: 126° ~~44~~ 45'30" West

N.T.S. 94 E / 2W, 2E

- for -

Operator: EL CONDOR RESOURCES LTD.

Suite 510 - 800 West Hastings Street
Vancouver, B. C. V6C 2V6
(604) 684-2710

Owner: Kennco Explorations (Western) Ltd.

- prepared by -

MINOREX CONSULTING LTD.

Suite 200A - 156 Victoria Street
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December 10, 1986

J. D. Blanchflower, F.G.A.C.
Consulting Geologist

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INTRODUCTION

El Condor Resources Ltd. of Suite 510 - 800 West Hastings Street, Vancouver, B.C. operates the KEMESS property. This property is comprised of two M.G.S. mineral claims, totalling 38 units; all situated in the Omineca Mining Division of British Columbia.

This report, prepared at the request of the directors of El Condor Resources Ltd., describes the geologic setting, history, 1986 exploration results and potential of the property. An exploration programme is recommended with cost estimates.

During the 1986 field season the writer supervised an exploration programme which included: establishment of a survey control grid (14.1 line-km.), prospecting (1:2,500), relogging and resampling of diamond drill core (147 core samples), soil geochemical sampling (351 samples), surface lithogeochemical sampling (33 samples), and geophysical surveying (ground magnetics).

The writer wrote this report which documents the results of the 1986 programme, and the results of previous exploration work by Kennco Explorations, (Western) Limited (1966 to 1971) and Getty Mines, Limited (1975 to 1976).

SUMMARY AND RECOMMENDATIONS

The KEMESS property is situated 7 kilometres east of Thutade Lake and 3.5 kilometres south of Antycelley Creek, 265 kilometres north of Smithers or 425 kilometres northwest of Prince George, in northcentral British Columbia. Its geographic coordinates are 57° 04′ North latitude by 126° 44′ West longitude (N.T.S.94E/2).

Access is possible by fixed-wing aircraft from Smithers to the Sturdee airstrip which services the Baker (Chapelle) Mine and much of the Toodoggone area. It is approximately 265 kilometres from Smithers to the Sturdee gravel airstrip; thence, 26 kilometres southeastward by helicopter to the property.

All interests in the claims are owned by Kennco Explorations, (Western) Limited of Vancouver, British Columbia. El Condor Resources Ltd. has negotiated an option agreement with the property owner, and will operate the property in fulfillment its term.

The claims cover the north-facing slopes and highlands east of Duncan Lake. These highlands are part of the Omineca Mountains of the Swannell Range. Elevations in the claims range from 1,400 metres (4,593 feet) to 1,932 metres (6,339 feet) A.M.S.L.

— SCALE —
1:10,000,000

100 0 100 200 300 400 500 Km.

To accompany a report by J.D. Blanchflower.

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GEOLOGICAL CONSULTANTS, KAMLOOPS, B.C.

EL CONDOR RESOURCES LTD.
VANCOUVER, BRITISH COLUMBIA

LOCATION MAP

KEMESS PROPERTY
OMINECA MINING DIVISION, B.C.

DATE: NOVEMBER, 1986	SCALE: AS SHOWN
DWN. BY: T.Q./T.	DWG. NO: 1

In 1966, Kennco Explorations (Western) Limited carried out a regional silt geochemical survey of the region. The following year Kennco staked 100 mineral claims covering the Kemess gossan. In 1968, their exploration work included: silt, soil and rock geochemical sampling, geological mapping (1:9,600), and X-ray diamond drilling, which totalled 51 metres (168 feet) for two holes. Subsequent drilling by Kennco included four X-ray holes totalling 127 metres (418 feet) in 1969, and two X-ray holes totalling 54 metres (178 feet) in 1971.

Getty Mines Ltd. optioned the property in 1975. Their initial exploration work included: photogrammetric topographic mapping (1:4,800), relocation of the mineral claims, 'fill-in' soil geochemical sampling, geological mapping (1:4,800), and diamond drilling (5 NQ and BQ holes totalling 589 metres or 1,932 feet). In 1976 Getty diamond drilled seven NQ-and BQ-core holes totalling 1,476 metres (4,842 feet).

The property is largely underlain by intercalated, basaltic to andesitic flows and volcaniclastics belonging to the Savage Mountain Formation of the Upper Triassic Takla Group. Porphyritic stocks and dykes, comagmatic with an underlying granitic pluton, intrude the roof pendant of volcanic rocks.

The 1986 exploration programme was directed toward evaluating the precious-metal potential of the property. The field work included: the establishment of a survey control grid (14.1 line-km.), prospecting (1:2,500, 4 square km.), relogging and resampling of diamond drill core (147 core samples), soil geochemical sampling (351 samples), surface lithogeochemical sampling (33 samples), and geophysical surveying (ground magnetics, 14.1 line-km.). This programme was carried out over a 16-day period from September 3 to 18, 1986.

The exploration results are very encouraging. The geochemical results indicate that there are highly anomalous gold and silver values spatially, and possibly genetically, associated with a large structurally controlled zone of intense hydrothermal alteration in a poorly explored area of the property. The known copper, molybdenum and minor precious-metal mineralization occurs within an area of propyliticaily-altered volcanics, west of the most intense hydrothermal alteration.

There seems to be two types of mineralization. The first type is the fracture controlled and disseminated copper and molybdenum mineralization of the Central and West Cirque areas. This mineralization has been sparingly tested by two operators. The grades of the known mineralization appear to be subeconomic at current metal prices. The second type is gold-and silver-bearing sulphide mineralization. It appears to be spatially and genetically related to an intense hydrothermal alteration zone which is centred in the East Cirque area. This second type of mineralization requires detailed exploration.

It is the writer's opinion that further exploration is definitely warranted for the following reasons.

1. The property is located within one of the most interesting and active exploration camps in the province.

2. The alteration and mineralization are spatially, and probably genetically, related to calc-alkaline stocks and dykes that have intruded a roof pendant of Takla Group volcanics. This setting is very similar to a number of known copper-molybdenum and gold-copper deposits.

3. Past exploration attempted to test the porphyry copper-molybdenum mineralization but ignored, or did not recognize, the precious-metal potential of this property.

4. The quartz-sericite-pyrite alteration zone at the East Cirque has been mapped for 700 metres in an east-northeasterly direction and 500 metres in a north-northwesterly direction.

5. A 300- by 200-metre coincident gold and molybdenum soil geochemical anomaly is situated along the exposed western edge of the quartz-sericite-pyrite alteration zone.

6. Surface lithogeochemical samples within the gold and molybdenum soil anomaly all show elevated gold and silver values.

The following work is recommended to test the precious-metal potential of this property.

1. Conduct an electromagnetics (VLF-EM) and induced polarization (time domain, dipole-dipole) survey of the control grid to delineate any structures which may control the precious metal-bearing sulphide mineralization.

2. Test the exploration results with diamond drilling.

3. Contingent upon the success of the above, define the mineralization with diamond drilling for a pre-feasibility study.

The total cost of this work is estimated to be $300,000.00; $100,000.00 for the first stage work and $200,000.00 for the second stage drilling.

GENERAL DESCRIPTION

Location and Access

The property is situated 7 kilometres east of Thutade Lake and 3.5 kilometres south of Antycelley Creek; 265 kilometres north of Smithers or 425 kilometres northwest of Prince George, in northcentral British Columbia. Its geographic coordinates are 57° 04′ North latitude by 126° 44′ West longitude (N.T.S.94E/2).

Access is possible by fixed-wing aircraft from Smithers to the Sturdee airstrip which services much of the Toodoggone area and the Baker (Chapelle) Mine. It is approximately 265 kilometres from Smithers to the Sturdee airstrip and 26 kilometres by helicopter from this gravel airstrip to the property. Alternatively, one can drive from Fort St. James north to Johansen Lake, a distance of 400 kilometres on the 'Mining Development' road. From Johansen Lake, it is approximately 70 kilometres north by helicopter to the property. In addition, the British Columbia Railway right of way passes 72 kilometres south of the property.

Float plane access to Duncan Lake, from either Smithers or Johansen Lake, and then hiking to the property is most difficult because there is 1,300 feet of relief and thick vegetation between the lake and the centre of the property.

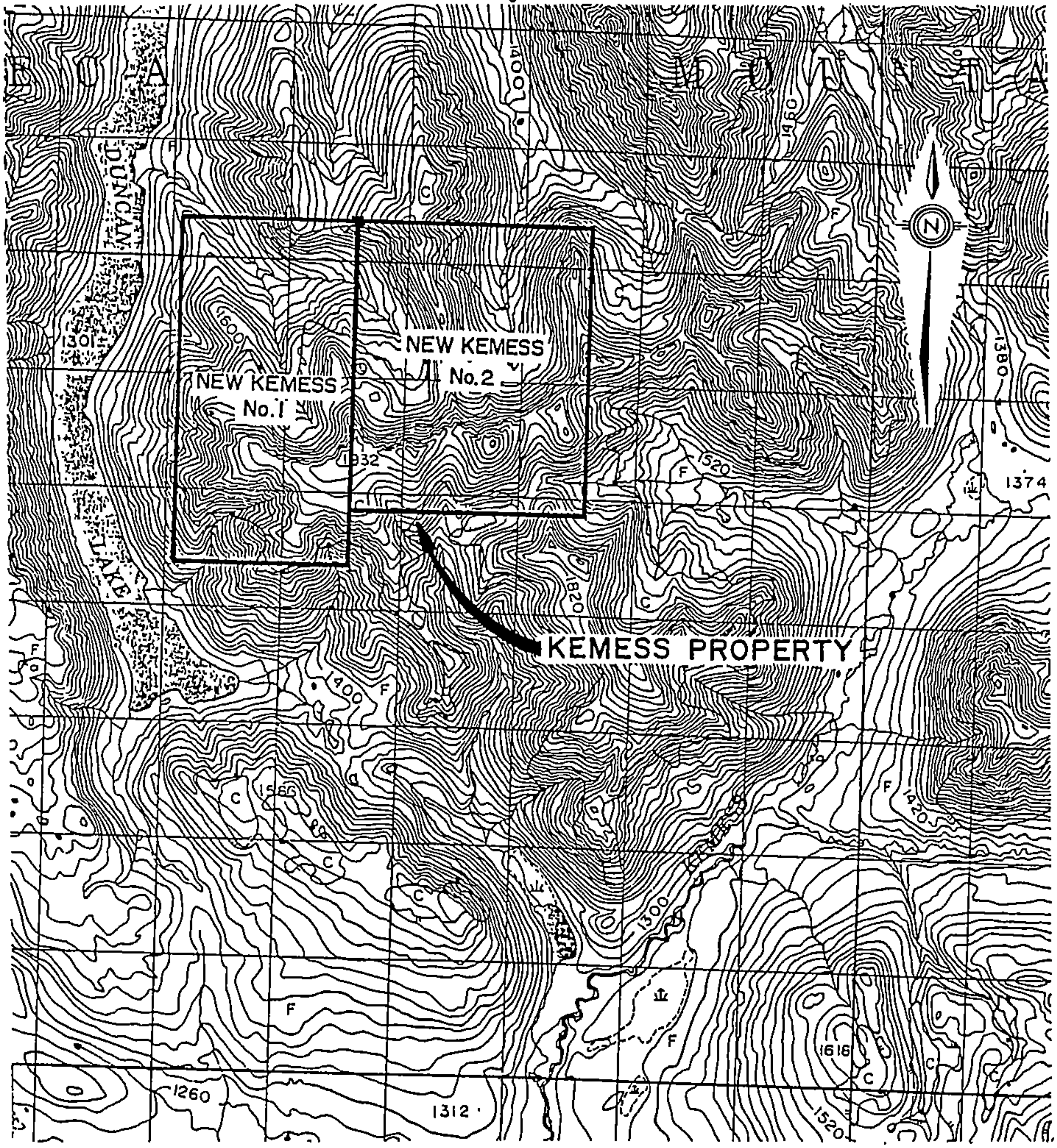
Property and Ownership

The property is located in the Omineca Mining Division of northcentral British Columbia. It is comprised of two M.G.S. mineral claims, totalling 38 units. The configuration of the claim group is shown on Figure 2. All pertinent claim data are summarized in the following table.

Claim Name	Record No.	Units	Record Date	Expiry Date	Registered Owner
New Kemess No. 1	43	18	Jul 11/75	1987	Kennco
New Kemess No. 2	44	20	Jul 11/75	1987	Kennco

In July, 1975, Getty Mines Ltd. abandoned the original two-post Kemess mineral claims and relocated the present M.G.S. mineral claims to more efficiently cover the known mineralization (Abandonment No. 180, Smithers). Their 1975 and 1976 exploration work was applied for assessment credit to maintain the claim group (Kemess Group #4120, Dec. 11, 1975) in good standing until its expiration in 1987.

According to the results of a title search, undertaken by the writer on September 18, 1986 at the Gold Commissioner's' office in Smithers , all interests in the claims are owned by Kennco



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1:50,000

1000 500 0 1000 2000 m

To accompany a report by J.D. Blanchflower.

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EL CONDOR RESOURCES LTD.
VANCOUVER, BRITISH COLUMBIA

CLAIM MAP

KEMESS PROPERTY
OMINECA MINING DIVISION, B.C.

DATE: NOVEMBER, 1986	SCALE: AS SHOWN
DWN. BY: T.Q./T.	DWG NO.: 2

Explorations, (Western) Limited of Vancouver, British Columbia. The directors of El Condor Resources Ltd. have reported to the writer that an option agreement has been negotiated with the property owner; whereby, El Condor Resources will operate the property in fulfillment of this agreement.

Physiography

The claims cover the north-facing slopes and highlands east of Duncan Lake. These highlands are part of the Omineca Mountains of the Swannell Range. Elevations within the claims range from 1,400 metres (4,593 feet) to 1,932 metres (6,339 feet) A.M.S.L.

The climate is moderate with temperatures ranging from -40°C. and +25° C. Precipitation is usually moderate. The snowpack usually thaws by late June, and the field season may extend until mid to late September.

The topography is moderately rugged, but there is a series of very steep east-west cirque cliffs situated centrally within the claims. The most westerly cirque contains an alpine rock glacier which appears to be still active. Most of the property is above treeline where the vegetation is scrub balsam and low juniper.

History

Placer gold was discovered at the mouth of McConnell Creek, 30 kilometres northwest of Johansen Lake, in 1899. A short lived gold rush occurred as a result of this discovery in 1907.

In the 1930's Emil Bronlund of Cominco reportedly prospected the Thutade and Duncan Lakes area. No claims were recorded at the present property location but Cominco did patent four claims covering some lead-zinc mineralization, 3 kilometres west of the property (Stevenson, 1969).

In 1966, Kennco Explorations, (Western) Limited carried out a regional silt geochemical survey of the region which included those streams draining the claims. The following year Kennco staked 100 mineral claims covering the Kemess gossan.

The exploration work by Kennco in 1968 included: silt, soil and rock geochemical sampling, geological mapping (1:9,600), and X-ray diamond drilling which totalled 51 metres (168 feet) for two holes. Subsequent drilling by Kennco included four X-ray holes totalling 127 metres (418 feet) in 1969, and two X-ray holes totalling 54 metres (178 feet) in 1971. The core recovery from most of this drilling was reported to be very poor to nil (Stevenson, 1969 and Cann, 1976). None of the Kennco drill core is present on the property.

Getty Mines, Limited optioned the property in 1975. Their initial exploration work included: photogrammetric topographic mapping (1:4,800), relocation of the mineral claims, 'fill-in' soil geochemical sampling, geological mapping (1:4,800), and diamond drilling (6 NQ and BQ holes totalling 589 metres or 1,932 feet). In 1976, Getty diamond drilled seven NQ-and BQ-core holes totalling 1,476 metres (4,842 feet). All of this drilling was located within the Central Cirque area near Kennco's drill sites. The option agreement between Getty and Kennco was terminated in 1976 or 1977, and there is no other reported exploration.

GEOLOGIC SETTING

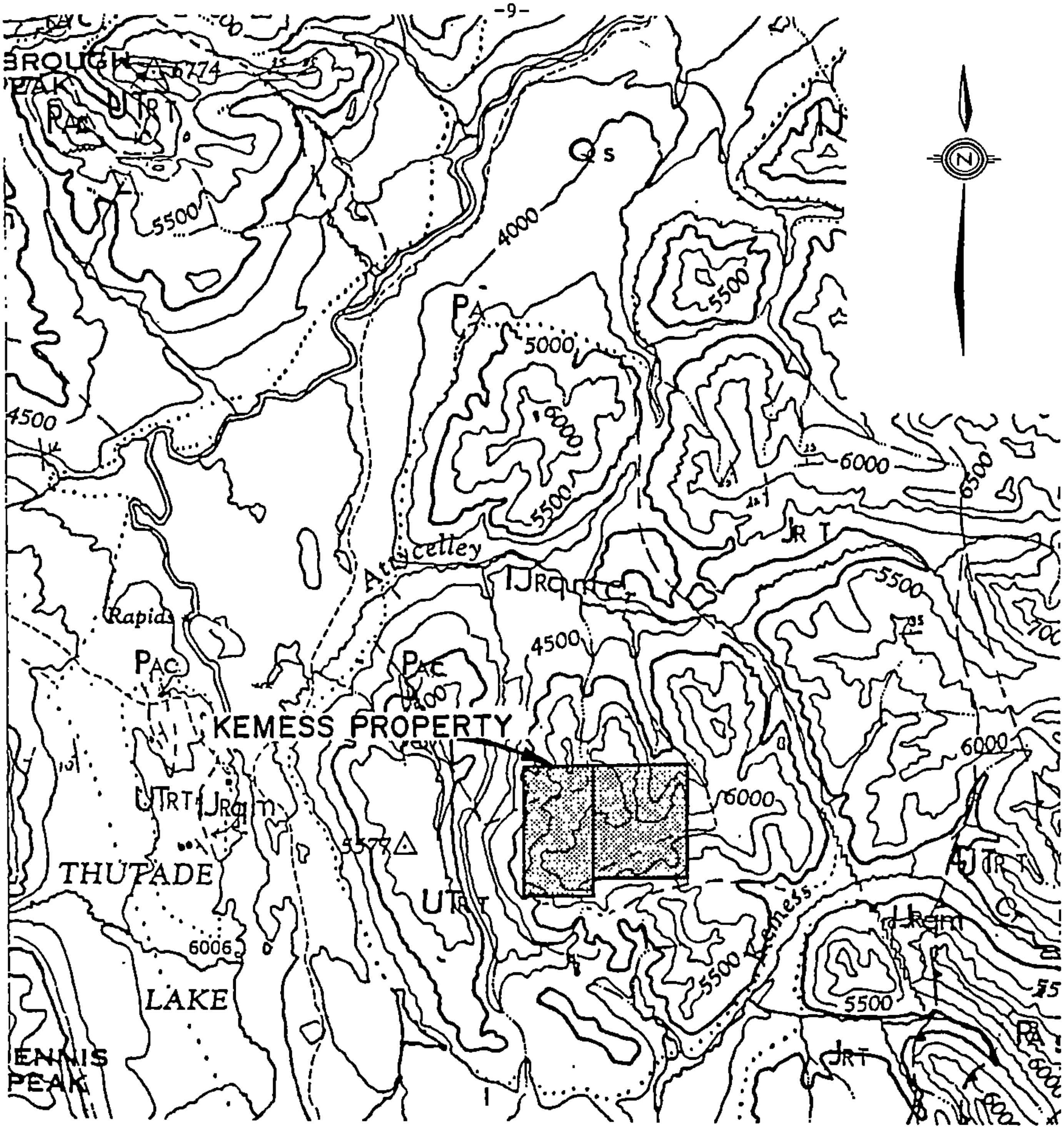
The Toodoggone map-area, N.T.S. 94 E, has been the subject of several geological studies by various government geologists. These studies include those of Panteleyev (1983 and 1982) and T.G. Schroeter (1981). D.B. Forester studied the geology, petrology and precious-metal mineralization of the Toodoggone River area; and R.M. Cann mapped and dated the various lithologic units underlying the property. Both did their work while geological students at the University of British Columbia in 1984 and 1976, respectively. Much of the following text is based on the results of these recent studies.

The Toodoggone area lies within the eastern margin of the Intermontane Belt. The oldest rocks exposed are Proterozoic metasedimentary equivalents of the Ingenika Group. These rocks are unconformably overlain by volcanic and sedimentary units of the Permian Asitka Group. The Asitka Group is in turn overlain by Upper Triassic basaltic to andesitic flows, volcaniclastics and minor limestone belonging to the Takla Group (Monger, 1977). The Takla Group is overlain by volcaniclastic rocks of the Lower Jurassic Hazelton Group (Tipper and Richards, 1976) and by rhyolitic to dacitic flows, intrusives, and volcaniclastics known as the 'Toodoggone' volcanics of Early Jurassic age. Further to the west, Cretaceous to Eocene (?) sediments overlie the volcanic strata (Gabrielse et al, 1980).

The Lower Jurassic to Cretaceous Omineca Intrusions of quartz monzonitic and grandioritic composition have intruded the older strata in the central and eastern portions of the region. Some syenomonzonite bodies and quartz feldspar porphyry dykes may be feeder structures to the Toodoggone rocks.

The stratigraphy trends northwesterly and commonly dips gently westward with a westerly younging direction. Numerous thrust and transcurrent faults displace the various lithologies.

Figure 3 and 4 of this report show the regional geology and summarize the lithologic units of the Toodoggone district.



After G.S.C. Open File 483, 1983.

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3 2 1 0 2 4Km

To accompany a report by J.D.Blanchflower.

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VANCOUVER, BRITISH COLUMBIA

REGIONAL GEOLOGY

KEMESS PROPERTY
OMINECA MINING DIVISION, B.C.

DATE: NOVEMBER, 1986	SCALE: AS SHOWN
DWN.BY: T.Q./T.	DWG.NO.: 3

WEST OF NORTHERN ROCKY MOUNTAIN TRENCH

TERTIARY

QUATERNARY
PLEISTOCENE AND RECENT

Unconsolidated glacial, fluvioglacial, and alluvial deposits

CRETACEOUS AND TERTIARY
UPPER CRETACEOUS TO(?) EOCENE

KTs	SIFTON FORMATION: Conglomerate, shale, siltstone, coal; dacitic volcanics
eTBP	BROTHERS PEAK FORMATION: Conglomerate, tuff, siltstone, shale, sandstone
uKT	TANGO CREEK FORMATION: Conglomerate, shale, siltstone, sandstone minor fetid limestone, nonmarine

MESOZOIC

JURASSIC
MIDDLE AND UPPER JURASSIC

BOWSER LAKE GROUP

JRBL	Shale, siltstone, pebble conglomerate

'TOODOGGONE' volcanic rocks

JRT	Dacite, latite, rhyolite, tuff, breccia, flows; local maroon weathering conglomerate includes local intrusive equivalents

LOWER JURASSIC
HAZELTON GROUP

lJRH	Volcanic conglomerate, breccia, lahar; abundant pink feldspar porphyry dykes and sills probably related to JRT ; my include some JRT and uRT

TRIASSIC
TAKLA GROUP

uRT	Coarse-bladed plagioclase porphyry, augite porphyry, tuff, agglomerate; uRTe, limestone, uRTs, tuff

PALEOZOIC

PERMIAN
ASITKA GROUP(?)

PA	Chert, argillite, limestone, greenstone; PAm, sericite and chlorite phyllite, foliatiated chloritic greenstone, grit, acidic tuff(?), minor red chert; chlorite schist, grit, amphibolite, limestone; PAc , marble

PENNSYLVANIAN AND PERMIAN
'LAY RANGE ASSEMBLAGE'

PPL	Tuff, limestone

CAMBRIAN AND ORDOVICIAN
KECHIKA GROUP

€Ok	Limestone, phyllitic; calcareous shale, limestone, phyllite

CAMBRIAN
LOWER CAMBRIAN
ATAN GROUP

l€AC	Limestone, siltstone, dolomite
l€AS	Impure quartzite, shale, local sandstone, conglomerate
l€Aq	Quartzite, minor pebble conglomerate

PROTEROZOIC AND LOWER CAMBRIAN (UNDIVIDED)

Hl€m	Mica schist and phyllite, garnet-kyanite-mica schist, quartzite; Hl€c , crystalline limestone

PROTEROZOIC

PROTEROZOIC
UPPER PROTEROZOIC

Hla	Amphibolite, quartzite; Hlc , crystalline limestone; Hlg , augen gneiss; age uncertain

STELKUZ FORMATION

HlST	Siltstone and shale, green and maroon; sandstone, limestone, locally pisolitic

ESPEE FORMATION

HlE	Limestone, locally oolitic and pisolitic; dolostone in Cormier Range

TSAYDIZ FORMATION

HlT	Phyllite, sericitic; minor calcareous phyllite

SWANNELL FORMATION

HlS	Quartz-feldspar gritty sandstone, siltstone, shale, conglomerate; minor limestone; metamorphic equivalents from chlorite to Kyanite grade; HlSc , limestone, sandy

GRANITIC ROCKS

TERTIARY
EOCENE

eTd	Dacite dyke
eTg	Granite, quartz monzonite eTm, migmatite, gneiss eTgd, granodiorite

CRETACEOUS

Kqm	Quartz monzonite, mainly foliated; Kqm ; migmatite and gneiss

JURASSIC
MIDDLE JURASSIC(?)

mTRgd	Granodiorite, leucocratic, pink; fine to medium grained

LOWER JURASSIC

lTRqm	Quartz monzonite and granodiorite, locally megacrystic lTRqm, migmatite, gneiss
lTRd	Hornblende-quartz diorite and granodiorite; commonly contains biotite; foliate

ULTRABASIC ROCKS

TRIASSIC(?)
UPPER TRIASSIC(?)

uTR	uTRdp dunite and peridotite; uTRg, hornblende gabbro, uTRpx, clinopyroxenite; uTRopx, olivine clinopyroxenite

SYMBOLS

- geological boundary
- limit of geological mapping
- fault
- thrust fault
- chlorite isograd
- biotite isograd
- garnet isograd
- kyanite isograd

GEOLOGY BY

H. Gabrielse, C.J. Dodds and J.L. Mansy, 1971-1975; G.H. Eisbacher, 1969-1971

GEOLOGY OF
TOODOGGONE RIVER (94 E) AND WARE WEST–HALF (94 F)
O.F 483

A synoptic description of the major lithologic units in the Toddoggone region follows.

1. **Proterozoic Rocks**

These rocks form the western flank of a broad anticlinorium. The lower unit consists of a succession of sandstone, siltstone, shale, and minor conglomerate and limestone with metamorphic grades up to kyanite facies. Sericitic and calcareous phyllite, limestone, and a sequence of siltstone, sandstone, shale and limestone overlie the rocks of the lower unit. To the south, in the McConnell Creek map-area, these rocks are known as the Ingenika Group (Monger, 1977).

2. **Asitka Group**

The Asitka Group (comprising about 80 per cent calcite marble, 15 per cent chert, and 5 per cent argillite, sandstone and skarn with minor amounts of volcanic rocks) occur as 150-metre thick wedges within the region. Barr (1978) noted that the calcite marble has lost all evidence of its original texture, whereas the limestone and garnetiferous calcite marble retain some of their depositional textures. Skarns which have developed near contacts with the Omineca Intrusions commonly contain garnet, magnetite, tremolite and galena; and are the hosts for the silver-lead-zinc mineralization that was explored by Cominco (Barr, 1978).

Carter (1972) has noted that in the southwestern part of the Toodoggone map-area, limestone is thrust in a southerly direction over the volcanic rocks. The planes of schistocity in the limestone reflect the limbs of a recumbent isoclinal fold which has been warped into a broad open fold. A northwesterly striking axis, during a second period of folding, may be related to thrust faulting.

3. **Takla Group**

According to Forester (1984), the Late Triassic Takla Group of the region comprises:

a) tremolite andesite porphyry that commonly has 3 to 4 mm. euhedral tremolite needles in a dark grey groundmass of predominantly oligoclase and magnetite;

b) massive, light green aphanitic andesite that typically contains 1 mm. anhedral feldspar phenocrysts with minor pyrite and magnetite;

c) porphyritic andesite characterized by 2 mm. subhedral feldspars and augite phenocrysts in a fine-grained matrix of mainly plagioclase and pyroxene; and

FIGURE 4

Table of Formations for the Toodoggone District

AGE	UNIT	THICKNESS	LITHOLOGY
Upper Cret.& Tert.	SUSTUT GROUP	2,500' (800m)+	Nonmarine conglomerate, shale, siltstone, tuff, minor limestone; Gabbroic dykes and sills
UNCONFORMITY			
Middle to Upper Jurassic	BOWSER Assemblage	4,500' (1,500 m)±	Shale, siltstone, pebble conglomerate
Lower to Middle Jurassic	TOODOGGONE	1,500' (500m)+	Dacite, latite, rhyolite, tuff, breccia, flows, local intrusive equivalents
GRADATIONAL			
Lower to Middle Jurassic	INTRUSIVE		Quartz monzonite and granodiorite, pink leucocratic granodiorite, hornblende-quartz diorite
INTRUSIVE CONTACT			
upper Lower Jurassic	HAZELTON GROUP	1,500' (500m)+	Greywacke, argillite, siltstone, sandstone, tuff, minor limestone, basaltic breccia and flows
mid-Lower to Lower Jurassic	HAZELTON GROUP	4,000' (1,300m)±	Mainly massive andesite, local rhyolite, basalt flows, localized volcaniclastics
			Waterlain and ash flow tuff, volcanic conglomerate and breccia, andesite, basalt, rhyolite flows
		500' (170m)±	Breccia and congl. derived from Takla and Asitka groups
UNCONFORMITY			
lower Upper Triassic to mid-Upper Triassic	TAKLA GROUP	max. 4,000' (1,3000m)	Breccia, and conglomerate derived from underlying Takla units, minor sandstone and argillite
		max. 5,000' (1,7000m)	Massive breccia locally grading to flows, bedded, graded augite, feldspar crystal lithic tuff, fine-grained tuff and argillite
		max. 9,000' (3,000m)	Augite porphyry, augite feldspar porphyry basalt, aphanitic basalt, bladed feldspar porphyry. Interfingers with above unit.
		max. 1,000' (300 m)	Argillite, siltstone, tuff, minor limestone
DISCONFORMITY			
Permian	ASITKA GROUP	5,000' (1,700m)+	Chert, argillite, limestone, greenstone

After R.M. Cann (1976)

d) pyroclastic breccia composed of lapilli-size clasts of andesite in a poorly-sorted green to grey matrix.

The Takla volcanics have alteration facies that include: chloritization of augite phenocrysts, epidotization of plagioclase and mafic minerals, sericitization of feldspars, and silicification of all minerals adjacent to quartz veining (Forester, 1984). Unlike the Toodoggone volcanics, fracture controlled laumontite and anhydrite mineralization is pervasive within this group of rocks.

4. **Hazelton Group**

The Hazelton Group ranges in age from Lower Jurassic to lower Middle Jurassic (Tipper and Richards, 1976). These rocks occur in fault contact with the Toodoggone rocks and unconformably overlie the Takla volcanics. They include a succession of varicoloured andesitic to dacitic flows, breccias and volcanically-derived epiclastic sedimentary rocks (Forester, 1984).

According to Monger (1977), conglomerate, sandstone, breccia which contains clasts of Takla and Asitka rocks, and a granitic rock of unknown origin form the basal unit measuring 500 feet thick. The second unit of 4,000 feet comprises sandstone, conglomerate, breccia and tuff which grades upward into andesite, basalt and rhyolite flows and intercalated volcaniclastics. Marine greywacke, argillite, siltstone, tuff and basaltic breccia of 1,500 feet conformably overlie the second unit.

5. **Toodoggone Volcanics**

The Toodoggone volcanics form a distinctive map unit consisting of mainly airfall ash tuffs with subordinate ashflows, coarse pyroclastics, lava flows, and lenses of epiclastic sedimentary rocks (Panteleyev, 1983). This assemblage forms a northwesterly trending belt at least 90 kilometres long and 25 kilometres wide along the northeastern margin of the Sustut Basin.

According to Panteleyev (1983), rocks of the Toodoggone volcanic belt appear to be structurally conformable with Takla rocks, or they may overlie them with gentle angular unconformity. Elsewhere, Toodoggone volcanics are commonly in fault contact with bedded Takla, bedded Hazelton or Omineca Intrusive rocks. Locally, the Omineca granitic rocks intrude Toodoggone volcanics. Along its southeast boundary the Toodoggone volcanic belt is overlapped by Paleozoic Asitka and Triassic Takla rocks. The contact area is a series of stacked thrust plates. In this region Toodoggone rocks dip steeply and Z-shaped northerly trending folds occur with amplitudes of, at least, 20 metres. This is in marked contrast to the area further north in the volcanic belt where gently dipping beds in tilted fault blocks or broad open folds with horizontal axes are the norm.

Six stratigraphic subdivisions of Toodoggone volcanic rocks have been recognized south of the Finlay River. The basal unit is exposed southeast of Kemess Creek and there is a northerly younging direction (Panteleyev, 1982). The Toodoggone volcanics comprise: andesitic, fine-grained, hornblende feldspar porphyry flows; dacitic, lithic ash to lapilli tuff and crystal-lithic ash tuff; dacitic, crystal-lithic ash and lapilli tuff; basaltic, amygdaloidal feldspar porphyry flows; andesitic, feldspar crystal ash and crystal-lithic ash tuffs with some lapilli tuff and lahar deposits and rare agglomerates; and dacitic, subaerial ash flow.

Hydrothermal alteration is fracture controlled, mainly of the zeolites laumontite and stilbite with calcite. It may be deuteric. Zones of pyritization, sericitization and silicification are fracture controlled, and often contain precious-metal mineralization (Panteleyev, 1982).

6. Sustut Group

In the Toodoggone area the Sustut Group is of Tertiary and Upper Cretaceous age (Gabrielse et al, 1976), and it unconformably overlies the Takla and Hazelton Groups. It comprises nonmarine conglomerate, shale, siltstone, tuff and minor limestone. Gabbroic dykes and sills intrude this unit.

7. Omineca Intrusions

Both the Asitka and Takla Groups are intruded by granitic rocks of the Omineca Intrusions. Megacrystic quartz monzonitic and granodioritic intrusions of Lower Jurassic to Middle(?) Jurassic age are most common. Stocks of granodiorite are commonly pink, leucocratic, and fine- to medium-grained. Foliated quartz diorite also occurs locally (Cann, 1976).

Cretaceous-age quartz monzonite is commonly foliated and mylonitized along contacts. It locally separates the Proterozoic and Mesozoic rocks.

Pink feldspar porphyry dykes are believed to be late stage differentiates of the Lower Jurassic intrusives, and may be feeder dykes for the Toodoggone volcanics (Carter, 1971).

The Toodoggone River area is widely known for its precious-metal and copper mineralization. Both the Takla and Toodoggone volcanics host epithermal gold and silver mineralization. Repetitive normal faulting during Jurassic time provided the fracture channelways through which the mineralizing fluids migrated. Schroeter (1981) has dated alunite from a mineralized quartz vein which indicates that the major phase of mineralization occurred during the Early Jurassic time.

According to Forester (1984), silicified and mineralized zones range in width from a few millimetres to tens of metres, and generally pinch and swell along their length. The fracture controlled mineralization tends to be more abundant within the more competent volcanic rocks. The main ore minerals of the gold-silver deposits are acanthite, gold, silver and electrum with minor amounts of chalcopyrite, galena, sphalerite, polybasite and bornite. The camp silver to gold ratio is 20:1. Gangue minerals include: amethystine, chalcedonic and white quartz, calcite, pyrite, specular hematite, adularia and manganese oxide with lesser amounts of barite, fluorite, siderite and chlorite.

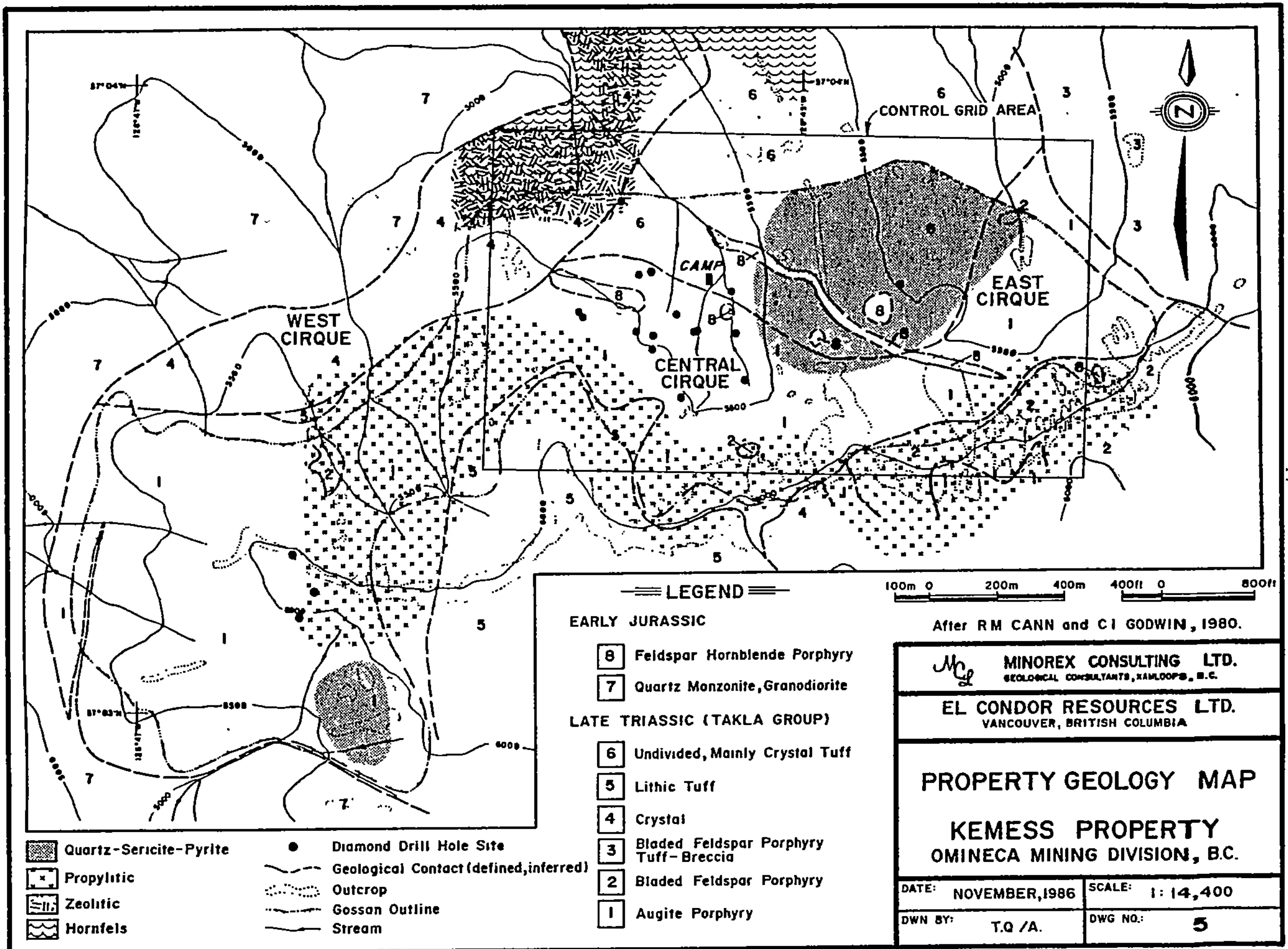
Copper-bearing sulphide mineralization occurs dominantly within the Takla volcanics, especially near bladed feldspar porphyry units (Cann, 1976). It is fracture controlled, often associated with the porphyry dykes, and consists of pyrite, chalcopyrite and molybdenite with associated precious-metal values. The Cariboo Bell, Stikine, Galore Creek and Lorraine deposits are typical examples of the mineralization that can be found within the Takla Group.

Sphalerite and galena mineralization often occurs in the limestone units and skarn zones of the Asitka Group.

DISCUSSION OF PREVIOUS EXPLORATION RESULTS

The original Kemess mineral claims were staked by Kennco Explorations in December, 1967 to cover several copper and molybdenum silt geochemical anomalies. In 1968, their exploration work discovered that a zone of disseminated pyrite mineralization, approximately 610 metres (2,000 feet) by 3,353 metres (11,000 feet), is hosted by intensely fractured and silicified andesite, and that sericite and laumontite are associated with the pyrite. Epidote alteration occurs near its periphery. Within the pyrite zone, copper mineralization is indicated over a length of 1,829 metres (6,000 feet) with a width of 366 metres (1,200 feet). Silt samples from small drainages along the zone contained 600 to 4,800 p.p.m. copper, 10 to 285 p.p.m. molybdenum, and 2.0 to 4.0 p.p.m. silver. Two 25.6-metre (84-foot) AX diamond drill holes at the east end of this zone averaged 0.21% copper, 0.007% molybdenum and 0.07 oz./ton silver; and 0.27% copper, 0.02% molybdenum and 0.08 oz./ton silver (Stevenson, 1969).

The geological results indicated that: andesite of the Triassic Takla Group is intruded by a dioritic stock of the Omineca


CONTROL GRID AREA
WEST CIRQUE
CENTRAL CIRQUE
EAST CIRQUE
CAMP
LEGEND
EARLY JURASSIC
8 Feldspar Hornblende Porphyry
7 Quartz Monzonite, Granodiorite
LATE TRIASSIC (TAKLA GROUP)
6 Undivided, Mainly Crystal Tuff
5 Lithic Tuff
4 Crystal
3 Bladed Feldspar Porphyry Tuff-Breccia
2 Bladed Feldspar Porphyry
1 Augite Porphyry
Quartz-Sericite-Pyrite
Propylitic
Zeolitic
Hornfels
Diamond Drill Hole Site
Geological Contact (defined, inferred)
Outcrop
Gossan Outline
Stream
100m 0 200m 400m
400ft 0 800ft
After RM CANN and CI GODWIN, 1980.
MINOREX CONSULTING LTD.
GEOLOGICAL CONSULTANTS, KAMLOOPS, B.C.
EL CONDOR RESOURCES LTD.
VANCOUVER, BRITISH COLUMBIA
PROPERTY GEOLOGY MAP
KEMESS PROPERTY
OMINECA MINING DIVISION, B.C.
DATE: NOVEMBER, 1986
SCALE: 1:14,400
DWN BY: T.Q /A.
DWG NO.: 5

Intrusions, as well as stocks of younger syenite porphyry, quartz monzonite porphyry and leucogranodiorite porphyry; an elongate body of quartz monzonite porphyry occurs parallel to the major fault zone which strikes 070° and dips -30°northward over a length of 3 kilometres; and there seemed to be a genetic relationship between the mineralization and the quartz monzonite porphyry intrusion (Stevenson, 1969).

The results of the 1969 and 1971 diamond drilling programmes were not available to the writer so it is not known whether this later drilling intersected any substantial mineralization. Nevertheless, it is evident from the history of this property that Kennco did regard the copper-molybdenum mineralization with interest since they retained the mineral claims in good standing.

The geologic logs and analytical summaries for the 1976 diamond drilling programme were the only data available to the writer from Getty Mines' exploration work. The drill data accompanies this report as Appendix V.

1986 EXPLORATION PROGRAMME

The programme was supervised by the writer. It included: the establishment of a survey control grid (14.1 line-km.), prospecting (1:2,500, 4 square km.), relogging and resampling of diamond drill core (147 core samples), soil geochemical sampling (351 samples), surface lithogeochemical sampling (33 samples), and geophysical surveying (ground magnetics, 14.1 line-km.). The field work, including mobilization and demobilization, was carried out over a 16-day period from September 3 to 18, 1986. The report and accompanying plans were prepared after all the analytical and geostatistical results were received.

The writer prospected the central portion of the property, relogged the core from Getty Mines' 1975 and 1976 drilling programmes, and collected the surface lithogeochemical samples. Mr. Dwayne Windsor, an experienced geotechnician employed by Tarnex Geoservices, established the survey control grid and conducted the ground magnetics survey. Messrs. N. Martin and D. Steadman were employed by Minorex Consulting Ltd. to assist Mr. Windsor and the writer with the field programme.

The Statements of Qualifications for Mr. Windsor and the writer accompany this report.

Survey Control Grid

The original control grid that was established by Kennco, and renovated later by Getty Mines, could not be utilized for the 1986 programme because many of the station sites were found to be illegible or destroyed. Messrs. Windsor and Steadman tried to establish an east-west (090 -270) baseline using standard chain and compass methods, but after surveying an 800-metre line, it was found that the local magnetics had affected its orientation by 12° (088°).

A topographic photogrammetric map, prepared by Getty Mines, and a 'sighting' board were utilized to orient the baseline from established topographic features, and 'turn-off' the grid lines. All of the control grid was 'sight' picketed, and the survey stations were established using cedar pickets or rock cairns with flagging and a marked metal tag for labelling purposes. Despite these precautions, the final baseline is skewed slightly (092°). The orientation and location of this control grid are shown on Figures 6 to 14.

The 100+00 N. by 100+00 E. survey station (i.e. 10,000 metres North by 10,000 metres East) was established at the site of a distinct topographic feature identified on the topographic photogrammetric plan. The baseline was 'sight' picketed, flagged and labelled 900 metres eastward and 300 metres westward. At grid coordinates 100+00 N. by 109+00 E., 101+00 N. by 112+00 E. and 102+00 N. by 114+00 E. the baseline was offset northward to avoid the steep cliffs.

The northern grid lines were 'sight' picketed, flagged and labelled beyond the perimeter of the pyrite alteration zone. The southern grid lines were similarily established to the cliffs of the three cirques in the central portion of the property. Survey stations were established at 50-metre intervals along grid lines that are 100 metres apart. After the initial soil geochemical sampling, intermediate 50-metre stations were established between the grid lines. These intermediate stations were marked by rock cairns and flagging.

A total of 14.1 kilometres of control grid were established, including a 1.8-kilometre baseline and 12.3 kilometres of grid lines.

Prospecting

The property has been mapped in detail by R.W. Stevenson for Kennco Explorations in 1968 and, later, by R.M. Cann for Getty Mines in 1975. The results of the geological study by R.M. Cann formed the basis for his 1976 thesis at the University of British Columbia. Messrs R.M. Cann and C.I. Godwin later published these results as a paper, titled 'Geology and age of the Kemess porphyry copper-molybdenum deposit, north-central British Columbia', in the CIM Bulletin, September, 1980.

Since the property had undergone recent detailed study, the writer undertook reconnaissance traverses to prospect and assess the geologic setting for its precious-metal potential. These traverses covered the northcentral portion of the property.

The results of the prospecting, and the locations and analytical results of the surface lithogeochemical samples are documented by Figures 6 and 14.

Geochemical Surveys

Soil Geochemical Survey

The soil geochemical samples were collected using a grub hoe or shovel. Survey notes of the sample character (i.e. active, dry, or swamp), texture (i.e. organic, clay, silt, sand, or gravel), origin (i.e. residual, colluvial, alluvial, or glacial), horizon, depth, colour, and location were taken at each sample location. From these notes, the soil geochemical samples were dominantly a mixture of silt, sand and gravel from the residual, colluvial and glacial overburden. The 'B' soil horizon was sought for the survey, but along the southern cliff faces 'C' horizon soils were collected in the absence of a 'B' horizon. The 'B' and 'C' soil horizons were usually sampled 5 to 10 centimetres beneath the surface to minimize any eolian contamination and/or organic matter.

The samples were placed in kraft paper envelopes, field dried, and delivered to Acme Analytical Laboratories Ltd. in Vancouver, B.C. for analysis. A total of 351 geochemical soil samples were collected over a 7 man-day period by Mr. D. Windsor of Tarnex Geoservices and Messrs. N. Martin and D. Steadman of Minorex Consulting Ltd., all experienced samplers.

At Acme Analytical Laboratories Ltd. the samples were dried at 60 $^{\circ}$ C. and sieved to -80 mesh. When insufficient -80 mesh material was found to be present in 'C' horizon-rich samples, the coarse reject fraction was ground to -80 mesh. All samples were analysed for 31 elements, including: molybdenum, copper, lead, zinc, silver, nickel, cobalt, manganese, iron, arsenic, uranium, thorium, strontium, cadmium, antimony, bismuth, vanadium, calcium, phosphorus, lanthanum, chromium, magnesium, barium, titanium, boron, aluminum, sodium, potassium, tungsten and gold. The first 30 elements were analysed by inductively coupled argon plasma (ICP) methods. The gold analyses were carried out using conventional atomic absorption methods. All analyses were conducted under the supervision of professional assayers.

At the writer's request Acme Analytical Laboratories Ltd. undertook a geostatistical analysis of the results using a microcomputer and a conventional statistical software programme. Mean, standard deviation and frequency percent data were plotted graphically to determine background, threshold and anomalous values for molybdenum, copper, lead, zinc, silver, arsenic, antimony, bismuth, barium and gold.

The soil geochemical results accompany this report as Appendix I, and Appendix III contains the geostatistical data. Figures 7 to 12 show the plotted and contoured results for the gold-, silver-, copper-, zinc-, molybdenum- and arsenic-in-soil analyses.

Lithogeochemical Survey

The lithogeochemical samples were collected by the writer while relogging the 1975 and 1976 drill core or prospecting. All samples were properly described, labelled and delivered to Acme Analytical Laboratories Ltd. in Vancouver, B.C. for analysis. A total of 180 samples were collected during the programme, including 147 core and 33 surface lithogeochemical samples.

At Acme Analytical Laboratories Ltd. the samples were ground to -100 mesh, and a 0.500 and 10 gram fraction of each were digested for either ICP or atomic absorption analysis, respectively. The surface samples were analysed for 31 elements, including: molybdenum, copper, lead, zinc, silver, nickel, cobalt, manganese, iron, arsenic, uranium, thorium, strontium, cadmium, antimony, bismuth, vanadium, calcium, phosphorus, lanthanum, chromium, magnesium, barium, titanium, boron, aluminum, sodium, potassium, tungsten and gold. The first 30 elements were analysed by inductively coupled argon plasma (ICP) methods. The gold analyses were carried out using conventional atomic absorption methods. The core samples were analysed for molybdenum, copper, lead, zinc, silver, arsenic and gold by the same methods. All analyses were conducted under the supervision of professional assayers.

At the writer's request Acme Analytical Laboratories Ltd. undertook a geostatistical analysis of the results using a microcomputer and a conventional statistical software programme. Mean, standard deviation and frequency percent data were plotted graphically to determine background, threshold and anomalous values for molybdenum, copper, lead, zinc, silver, arsenic, antimony, bismuth, barium and gold.

The lithogeochemical results accompany this report as Appendix II, and Appendix IV contains the geostatistical data. Figures 6 and 14 show the locations and partial analytical results for the surface samples.

Geophysical Survey

Proton Magnetometer Survey

It was recognized prior to the survey that the volcanic rocks may have similar magnetic 'signatures' or characteristics, but the survey was primarily directed toward identifying possible zones of hydrothermal alteration, shearing, or fracturing with associated sulphide mineralization. The hydrothermal destruction of primary magnetite, causing a low magnetics anomaly central to a hydrothermal alteration zone, is common with occurrences that are spatially and genetically related to an intrusion. Late-stage structural features, with groundwater movement, are also reflected by a ground magnetics survey.

A Barringer GM-122 proton magnetometer and a Scintrex MB6-2 base station magnetometer recorder were utilized for this survey. These instruments measure the total component of the earth's magnetic field to an accuracy of 1 gamma. The daily corrections for diurnal variations were made by correlating the base station readings with the field data.

The results of this survey have been plotted and contoured as Figure 13 of this report; and Figure 14 shows the geophysical results correlated with the other geological and geochemical data. Appendix VII contains the specifications for the two proton magnetometer instruments.

RESULTS OF THE 1986 EXPLORATION PROGRAMME

Prospecting

The writer found while prospecting that the reported geological results are well founded and accurate; thus, much of the following text is based on the geological results of R.M. Cann (1976 and 1980) and R.W. Stevenson (1968).

Lithology

The property is underlain principally by intercalated, basaltic to andesitic flows and volcaniclastics belonging to the Savage Mountain Formation of the Upper Triassic Takla Group. Porphyritic stocks and dykes, comagmatic with an underlying granitic pluton, intrude the volcanic rocks (Cann and Godwin, 1980).

According to Cann and Godwin (1980), the lithologic units have been described and correlated stratigraphically, in order of decreasing age, as follows.

UPPER TRIASSIC

TAKLA GROUP

Savage Mountain Formation

i) **Augite Porphyry (Unit 1)**

This unit underlies the southern portion of the grid with an east-west trend. It is a drab grey-green rock containing stubby augite phenocrysts up to 6 mm. long in a slightly darker fine-grained groundmass. Often actinolite partially or completely replaces augite. The groundmass is predominantly plagioclase (An 44) laths. Chlorite, epidote, sphene and actinolite occur in minor amounts. Pyrite and magnetite are disseminated in the rock.

ii) **Bladed Feldspar Porphyry (Unit 2)**

This unit occurs in the southeastern portion of the grid. It is characterized by elongate plagioclase phenocrysts, varying in length from 5 to 20 mm., in an aphanitic grey-green groundmass. The plagioclase phenocrysts (An 44) are unzoned and slightly to completely saussuritized, with partial to complete replacement by epidote. The groundmass contains trachytic plagioclase (An 28) microlites, devitrified glass and chlorite. Magnetite occurs as minor disseminations.

iii) **Bladed Feldspar Porphyry Tuff Breccia (Unit 3)**

This unit underlies most of the eastern portion of the grid. R.W. Stevenson (1968) called this unit an 'andesite breccia'.

It is composed mainly of subrounded, poorly-sorted bladed feldspar porphyry breccia fragments up to 0.6 m. across. Augite porphyry and felsic fragments occur in lesser amounts. The matrix is a crystal tuff, rich in euhedral to anhedral, moderately saussuritized plagioclase (An 30) crystals; minor angular, fine-grained quartz, chlorite and epidote also occur.

iv) **Basaltic Dykes (Unit 4)**

These easterly trending dykes occur in the central portion of the grid. They are 0.5 to 0.75 metres wide with steep dips. The dykes are very dark brown-grey aphanitic rocks with fine-grained black pyroxene disseminated throughout. Plagioclase laths and augite phenocrysts occur in a chlorite-rich groundmass. Fine-grained magnetite is pervasively disseminated.

v) **Crystal Tuff (Unit 5)**

This is the most extensive unit in the mapped area. It is a dark purple-grey to dark grey rock composed of euhedral to anhedral equant plagioclase crystals in an aphanitic groundmass. The plagioclase crystals vary in size from 2 to less than 0.03 mm., and they are unzoned (An 35), oscillatory zoned or normally zoned. Quartz forms a few angular grains about 0.2 mm. in diameter. These minerals are contained in a very fine-grained groundmass of quartz, plagioclase and opaque minerals.

vi) **Lithic Tuff (Unit 6)**

This unit underlies the southcentral portion of the grid. It consists of a variety of fragments in a dark grey to dark grey-purple groundmass with plagioclase crystals. The fragments are quite distinct on weathered surfaces and include: epidote fragments up to 7 mm. across, angular andesitic fragments up to 11 mm., subrounded felsite fragments up to 12 mm. across, and angular quartz prophyry fragments up to 60 mm. in diameter. The groundmass is a crystal tuff containing euhedral to anhedral 1.5 mm.-long plagioclase (An 32) crystals and anhedral to subhedral quartz grains.

LOWER TO MIDDLE (?) JURASSIC

OMINECA INTRUSIONS

Plutonic Rocks (Units 8a and 8b)

vii) **Quartz Monzonite (Unit 8a)**

This unit occurs immediately northwest of the grid. It is pink, equigranular and fine- to medium-grained in appearance. Quartz, orthoclase and plagioclase occur in approximately equal proportions. Plagioclase (An 50) is slightly altered to sericite and locally contains patches of secondary biotite. Primary biotite, about 2 per cent of the rock, forms fine laths partly altered to chlorite. Traces of magnetite make the rock weakly magnetic.

viii) **Granodiorite (Unit 8b)**

This unit is a pink-grey, inequigranular, medium-grained rock. There are two distinct varieties: one with abundant euhedral plagioclase crystals (An 50) in a finer-grained groundmass of subhedral and anhedral quartz and orthoclase with hornblende, biotite and magnetite occurring as subhedral and euhedral grains up to 2 mm. across, and a second one that is conspicuously porphyritic with hornblende, plagioclase, quartz and magnetite as euhedral phenocrysts. The second variety has hornblende crystals up to 6 mm. in length, and quartz and plagioclase crystals commonly 2 to 3 mm. across. Its groundmass is mainly fine-grained orthoclase.

ix) **Feldspar Hornblende Porphyry and Crowded Feldspar Hornblende Porphyry (Unit 9)**

This unit can be subdivided into two distinct units which occur in the northcentral to southeastern corner of the grid. Stevenson (1968) called this unit 'syenite'.

It is generally pink-brown or grey on fresh surfaces, and monzonitic in composition. Plagioclase forms euhedral, saussuritized phenocrysts, 0.2 to 2 mm. in length. Hornblende and more rarely augite form laths up to 2 mm. long, and some poikilitic grains enclose plagioclase and opaque minerals. The groundmass is a fine-grained, cloudy mixture of chlorite, plagioclase, orthoclase and quartz.

The two subdivided units can be distinguished by: one containing 45 per cent phenocrysts, no augite and only poikilitic hornblende (i.e. feldspar hornblende porphyry, unit 9a), and the other containing 60 per cent phenocrysts of augite and poikilitic hornblende (i.e. crowded feldspar hornblende porphyry, unit 9b).

x) **Quartz Plagioclase Porphyry (Unit 10)**

This unit is exposed in the cliffs of the Central Cirque. Stevenson (1968) called this unit 'leucocratic granodiorite'.

It is a light grey rock with anhedral to subhedral quartz phenocrysts and epidote in an aphanitic groundmass. Plagioclase (An 30) crystals are moderately to well saussuritized. Epidote forms aggregates up to 5 mm. across with interstitial quartz and othoclase. The groundmass is a very fine-grained mixture of plagioclase, quartz, sericite and chlorite. Pyrite occurs as minor finely disseminated grains in the groundmass.

xi) **Leucocratic Feldspar Hornblende Porphyry (Unit 11)**

An 8-metre section of this unit occurs south of the East Cirque. The rock is buff to light grey in colour with phenocrysts of plagioclase and hornblende occurring in an aphanitic groundmass. Plagioclase (An 30) crystals are euhedral, unoriented, and moderately saussuritized. Hornblende is completely replaced by calcite and chlorite. Epidote occurs as aggregates after the alteration of plagioclase. The groundmass is very fine-grained plagioclase, quartz, calcite and sericite.

Structure

The volcanic rocks have undergone intense structural deformation. Numerous faults, shears and fractures cut and displace the strata to a much greater degree than the intrusives, suggesting that the deformation of the volcanics predates the major tectonic events leading to the emplacement of the intrusions. None of the geologists, including the writer, have recognized any primary structures within the volcanics to determine whether they have undergone any regional or local folding.

Based on the distribution and trend of the lithologies and the structural data, major normal and transcurrent faulting occurs commonly in a east-northeasterly direction (070°), roughly parallelling the north-facing cliffs of all three cirques. There are two fault structures with this orientation, one in the cliffs themselves, and a second one which transects the centre of all three cirques (see Figures 5 and 6).

Stevenson (1968) traced the 'cliff' fault for 3,000 metres (10,000 feet) in an east-northeasterly direction from the south-western wall of the West Cirque to the southeastern wall of the East Cirque (see Figure 5). According to Stevenson (1968), this fault varies in dip from -20^{o} to -70^{o} northward, averaging -30^{o} northward. This fault has a 15 cm. gouge zone, and is bordered on both sides by intense shearing for 0.3 metre. There are numerous parisitic shear and fault structures parallelling this structure; most of which dip southward, but dips do vary from -60^{o} southward to -60^{o} northward.

The 'cliff' fault is very conspicuous in the steep north-facing slopes of the Central cirque. North of the fault, the country rocks are intensely pyritized and weathered to a bright orange or red colour. South of the fault, the rocks are much less mineralized and limonitic. The limonitic zones in the cliffs are restricted to transverse fault and shear zones cutting the main fault structure in a north to northwesterly direction. According to Stevenson (1968) and Cann (1976), these transverse structures occur with three different fracture orientations. One set of fractures strikes with 175^{o} to 180^{o} with vertical to -60^{o} easterly dips. A second set strikes 025^{o} to 045^{o} and dips -80^{o} to -60^{o} southeastward. The third set strikes 135^{o} to 155^{o} and dips vary from -50^{o} to -70^{o} notheastward. All three fracture sets appear to be contemporaneous with the major faulting.

The second fault structure, called the 'cirque' fault, has been traced for 3,000 metres. It displaces the volcanics on the southeast side of the West Cirque and trends northeastward through the pass between the West and Central Cirques at grid coordinates 100+00 N. by 99+00 E. At this point, the fault appears to curve, or be offset southeastward, to grid coordinate 98+50 N. by 103+00 E. This change in strike direction is buried by glacial rubble but the geophysical results indicate that it is the same structure at both grid coordinates. From 98+50 N. by 103+00 E., the 'cirque' fault strikes east-northeastward through the pass to the East Cirque and is lost at 102+00 N. by 113+00 E. It is the writer's opinion that the 'cirque' fault may spall, or 'horsetail' into several subparallel structures as it transects the East Cirque.

It is the writer's opinion that the Upper Triassic Takla volcanic rocks were fractured and displaced by northerly and easterly trending faults in Early Jurassic time. These structures controlled the emplacement of metal-rich hydrothermal fluids. The altered and mineralized volcanics rocks were later fractured and displaced prior to the intrusion of the Lower to Middle Jurassic plutonic rocks. Some of these ancient fracture systems have remained active regionally, but the local intrusives are generally quite poorly fractured and mineralized relative to the volcanic country rocks.

Alteration

There are four main types of alteration including: quartz-sericite-pyrite, propylitic, zeolitic and hornfels. Field and petrographic studies by Cann (1976) indicate that they occur only within the roof pendant rocks. The distribution of the alteration assemblages is shown on Figure 5.

1. **Quartz-Sericite-Pyrite**

   Pervasive quartz-sericite-pyrite alteration occurs as a large central zone and a smaller zone to the southwest. This alteration assemblage appears as envelopes surrounding veinlets of pyrite and fractures. It is characterized by pale bleached rock, with abundant boxworks commonly lined with jarosite after pyrite. Plagioclase is altered to quartz and muscovite, and sericite forms approximately 15 per cent of the rock. Chlorite and kaolinite form approximately 30 per cent of the rock. Rutile(?) occurs as disseminated bright orange grains. The abundance of sericite and sulphide boxworks decreases with a decrease in the intensity of alteration, and sulphides (pyrite) and goethite become increasingly more common.

   Only quartz-sericite-pyrite alteration is known to be directly associated with the mineralization.

2. **Propylitic**

   Propylitic alteration occurs as an elongate east-west zone parallel to and south of the central quartz-sericite-pyrite zone. Propylitized rocks are green, and are characterized by local albitization and variable epidote, chlorite and calcite alteration.

3. **Zeolitic**

   This alteration is most common in an area north of the quartz-sericite-pyrite zone; however, it is found locally throughout the property. Cann (1976) identified the zeolite 'laumontite' with the use of x-ray diffraction. Laumontite often occurs as fracture fillings up to 3 mm. thick in local shear zones. It is a soft, friable, salmon pink mineral which common in Takla Group rocks.

4. **Hornfels**

   Hornfels alteration forms an irregular zone of variable intensity, primarily within the crystal tuff unit (Unit 5). This zone seems to parallel the quartz monzonite and granodiorite contact. Intensely hornfelsed rocks are massive, fine-grained, and pale grey to brown in colour. Alteration products include: quartz, andalusite(?), epidote, sericite and chlorite. Pyrite occurs locally as microveinlets and fine-grained disseminations.

Mineralization

The known mineralization, in order of abundance, includes: pyrite, chalcopyrite, magnetite-hematite, molybdenite and digenite. Pyrite occurs as microveinlets and disseminations within the gossan zone. Its abundance varies from 0.5 to 10 per cent, and is directly proportional to the intensity of fracturing and alteration.

Chalcopyrite occurs in microveinlets or, more commonly, as disseminations with pyrite, magnetite-hematite, and the gangue minerals quartz and orthoclase. Digenite rims chalcopyrite grains where supergene mineralization occurs (Cann and Godwin, 1980). Molybdenite has been found to be spatially associated with the quartz-sericite-pyrite alteration zone, as a fracture filling.

According to Cann and Godwin (1980), "The results of the diamond drilling show that the highest copper grades are associated with aphanitic andesite and feldspar porphyry andesite flows adjacent to and west of the central intense quartz-sericite-pyrite zone. Furthermore, the strong development of gossan on the bladed feldspar porphyry unit and the abrupt termination at the lower contact of the lithic tuff unit indicates that the mineralization is partly controlled by stratigraphy." It is important to note, however, that all but one drill hole was located west of the intense quartz-sericite-pyrite zone and no core is reported to have been recovered from the drilling of hole KX-7.

Drilling results show that there is a 10- to 20-metre leached cap over the known copper mineralization, and assay results show that, beneath this cap, the mineralization is enriched for a thickness of up to 30 metres.

Geochemical Surveys

Soil Geochemical Survey

Figures 7 to 12 of this report show the plotted and contoured soil geochemical results for gold, silver, copper, zinc, molybdenum and arsenic. The writer has summarized the geostatistical data for ten elements in the following table.

Element	Minimum Value(ppm)	Maximum Value(ppm)	Mean (ppm)	Standard Deviation	Coefficient of Variance
Gold	6.0*	2,110.0*	277.4*	299.4	89,652.60
Silver	0.1	20.2	1.2	1.9	3.53
Copper	2.0	2,686.0	177.9	275.9	76,124.10
Lead	2.0	672.0	44.5	56.2	3,160.70
Zinc	1.0	493.0	78.3	57.1	3,262.30
Molybdenum	1.0	235.0	25.5	33.6	1,130.50

Element	Minimum Value(ppm)	Maximum Value(ppm)	Mean (ppm)	Standard Deviation	Coefficient of Variance
Arsenic	2.0	228.0	13.9	18.1	327.81
Antimony	2.0	8.0	2.2	0.6	0.33
Bismuth	2.0	146.0	4.8	8.2	66.64
Barium	4.0	696.0	113.9	85.9	7,382.10

Total number of samples: 351 * parts per billion (p.p.b.)

The soil geochemical results have been interpreted as follows.

1. **Gold**

The gold-in-soil values are extremely high considering that the mean is 277.0 p.p.m, including a maximum value of 2,110 p.p.b. (2.11 p.p.m., 0.074 o.p.t.). It is obvious from the above table that there are a number of extremely high values which have skewed the geostatistical data; nevertheless, it is very encouraging to find such high values in soils over a previously unrecognized precious-metal setting.

The survey identifies one large anomaly of greater than 1,000 p.p.b. gold and a number of smaller, more local sites with equally high results. The highest and largest gold-in-soil anomaly is centred at grid coordinates 102+00 N. by 107+50 E. Within this anomaly there are eight sample sites with values greater than 1,000 p.p.b. gold. The location of this anomaly is coincident with two mapped intrusions of feldspar hornblende porphyry. Geological results show that the volcanics in this area are highly fractured, altered and pyritized. This anomaly lies immediately west of Kennco's drill hole KX-7 which had no core reported recovery.

Two single-site anomalies are underlain by highly fractured and altered volcanics near or within the mapped quartz-sericite-pyrite alteration zone at grid coordinates 101+50 N. by 109+00 E. and 104+00 N. by 109+00 E. These two anomalies are downslope of the larger one and may represent its transported extensions.

There is another very high gold-in-soil anomaly at grid coordinates 105+50 N. by 106+00 E. It is underlain by poorly fractured and altered volcanics, immediately north of the pyrite halo. This anomaly seems to be spatially related to the pyrite halo rather than the minor copper mineralization which has been mapped in the vicinity.

It is interesting to note that the gold-in-soil results at the Central Cirque, where most of the drilling has been carried out, are relatively low. The copper-in-soil values for this area are highly anomalous. Such a contrast would lead one to believe that there is significant and untested precious-metal mineralization east of the drilled area.

2. Silver

The silver-in-soil results show that precious-metal mineralization is spatially, and possibly genetically, associated with the quartz-sericite-pyrite alteration zone at the East Cirque. There are three single-site silver-in-soil anomalies (greater than 5 p.p.m. silver) south and east of the large gold anomaly at 102+00 N. by 107+50 E. These anomalies may be reflecting the bedrock geochemistry, or may be transported downslope from the 'cliff' fault zone.

There is an elongate silver-in-soil anomaly at 105+00 N. to 106+00 N. by 104+50 E. to 106+50 E. This anomaly is supported by high gold and copper geochemistry, near the northern boundary of the pyrite halo (gossan zone).

There is a single-site silver anomaly in a swampy area at 99+00 N. by 104+00 E.

3. Copper

Anomalous copper-in-soil values (greater than 730 p.p.m.) are mainly situated within the Central Cirque area, near the drilling. There are a number of single- and double-site anomalies north and southeast of the large gold soil anomaly.

It in interesting to note that the copper soil geochemistry is very high over the propylitically altered rocks, and the copper soil anomalies seem to surround the quartz-sericite-pyrite alteration zone with its high gold and molybdenum geochemistry.

4. Zinc

The anomalous zinc soil geochemistry is restricted to the East Cirque. There are several anomalous single-site zinc-in-soil (greater than 193 p.p.m.) at grid coordinates 100+00 N. to 102+00 N. by 109+00 E. to 114+00 E. They appear to reflect high base-metal geochemistry around the quartz-sericite-pyrite alteration zone. A large zinc soil anomaly at 106+00 N. by 113+00 E.

5. Molybdenum

Anomalous molybdenum soil geochemical values (greater than 93 p.p.m.) correlate well with the quartz-sericite-pyrite alteration zone and high precious-metal geochemistry. A large anomaly at 101+50 N. by 107+50 E. is coincident with the large gold soil anomaly. There are also several single-site anomalies to the west and north which appear to reflect the periphery of the silicic and sericitic alteration.

6. Arsenic

The high arsenic soil anomalies (greater than 50 p.p.m.)

occur only at the East Cirque. They surround the large gold soil anomaly with other silver and base-metal values.

In summary, the soil geochemical results are very interesting. They indicate that the most intensely altered rocks with the highest precious-metal geochemistry have not been tested by drilling.

Lithogeochemical Survey

Most of the lithogeochemical samples were collected from the core of Getty Mines' diamond drilling programmes. The analytical results confirm the reported 1976 assay results; nevertheless, the resampling was justified because now there are analytical results for the 1975 diamond drilling on record.

The samples 86-19-148 and 149 were collected from the ferricrete deposits east and north of the camp. Their results were expected - very high copper, manganese and iron values.

High gold and silver lithogeochemical results (127 to 200 p.p.b. Au and 0.7 to 1.0 p.p.m. Ag) were returned from those samples that were collected near 101+50 N. by 107 E, the same area where the highest and most extensive gold soil geochemical samples occur.

High copper, lead, and zinc values occur peripheral to the quartz-sericite-pyrite alteration zone, commonly associated pyritized, propylitically altered rocks.

Geophysical Survey

Prior to the field work it was discussed whether a 'Very Low Frequency' electromagnetics (VLF-EM) survey should be conducted in conjunction with a proposed ground magnetics survey. It was decided that, due to the orientation of the mapped structural features with respect to the current transmitting stations, such a survey would be very difficult to complete within the limited field time. In retrospect, VLF-EM (EM-16) and induced polarization surveying should be undertaken during future exploration.

Proton Magnetometer Survey

The ground magnetic results accompany this report as Figure 13. The survey covered the control grid at 25-metre intervals. Magnetic readings ranged from 58,000 to 63,500 gammas. An interpretation of the results indicates the following:

1. The ground magnetics strengthen from the East Cirque westward to the pass between the Central and West Cirques.

2. There is a relatively wide dyke-like feature parallel to the baseline, from grid coordinates 100+00 N. by 97+00 E. to

100+00 N. to 107+00 E. This feature probably reflects a magnetic intrusive hosted by the 'cirque' fault. Near the quartz-sericite-pyrite alteration zone its magnetic susceptibility decreases with increased hydrothermal alteration.

3. At grid coordinates 106+00 N. by 106+00 E. and 102+00 N. by 103+50 E., there is a sharp increase in magnetics reflecting the northern edge of the pyrite zone.

4. The quartz-sericite-pyrite alteration zone responds with low magnetic susceptibilities.

DISCUSSION OF THE EXPLORATION RESULTS

The exploration results are very encouraging. Geological results show that the property is located over a roof pendant of Upper Triassic Takla volcanic rocks as a result of the intrusion of an Early Jurassic calc-alkaline pluton. The known mineralization appears to be genetically related the late stages of the intrusive event.

The soil and rock geochemical results indicate that there are highly anomalous gold and silver values spatially, and possibly genetically, associated with a large structurally controlled zone of intense hydrothermal alteration in a poorly explored area of the property. The tested copper, molybdenum and minor precious-metal mineralization occurs within an area of propylitically altered volcanics, west of the most intense hydrothermal alteration.

The results of the ground magnetic survey show that the Takla Group volcanics has been intensely altered within the quartz-sericite-pyrite zone and, to a lesser extent, within the propylitic zone. They also show that the east-northeasterly trending 'cirque' fault crosses the central portion of the property.

EXPLORATION POTENTIAL

Past geologists have compared the geologic setting of this property with that of the Schaft Creek porphyry copper-molybdenum deposit, located 72 kilometres south of Telegraph Creek, B.C. It is true that the age, calc-alkaline character and geologic setting of the Schaft Creek deposit are similar, but most of the exploration here has been for discovering a porphyry copper-molybdenum deposit rather than exploring for its precious-metal mineralization.

It is the writer's opinion that there are two types of mineralization. The first type is the fracture controlled and disseminated copper and molybdenum mineralization. This mineralization has been sparingly tested by two operators, and the known grades are subeconomic at current metal prices. The second type is gold-and silver-bearing sulphide mineralization which is spatially and genetically related to the intense hydrothermal alteration at the East Cirque. It is this second type of mineralization which requires detailed exploration.

CONCLUSIONS

It is the writer's opinion that further exploration is definitely warranted for the following reasons.

1. The property is located within one of the most interesting and active exploration camps in the province.

2. The alteration and mineralization are spatially, and probably genetically, related to calc-alkaline stocks and dykes which intrude a roof pendant of Takla Group volcanics. This setting is very similar to a number of known copper-molybdenum and gold-copper deposits.

3. Past exploration attempted to test the known porphyry copper-molybdenum mineralization but ignored, or did not recognize, the precious-metal potential of this property.

4. The quartz-sericite-pyrite alteration zone at the East Cirque has been mapped for 700 metres in an east-northeasterly direction and 500 metres in a north-northwesterly direction.

5. A 300 by 200-metre coincident gold and molybdenum soil geochemical anomaly is situated along the exposed western edge of the quartz-sericite-pyrite alteration zone.

6. Lithogeochemical samples from the bedrock within the gold and molybdenum soil geochemical anomaly all show elevated gold and silver values.

COST ESTIMATES

The following work is recommended to test the precious-metal potential of this property.

1. Conduct electromagnetics (VLF-EM) and induced polarization (time domain, dipole-dipole array) surveys.

2. Test the exploration results with diamond drilling.

3. Contingent upon the success of the above, delineate the mineralization with diamond drilling for reserve estimation.

Stage I

Geophysical surveying during the diamond drilling programme (VLF-EM and IP).	$ 8,500.00
Diamond drilling - 550 metres of NQ drilling @ an "All In' cost of $ 150.00 per metre, including: helicopter support, site prep, drilling costs, supervision, sampling, assaying and reporting.	82,500.00
Contingency (~10%)	9,000.00
Estimated Cost of Stage I	**$ 100,000.00**

Stage II

Diamond drilling - 1,200 metres of NQ drilling @ an "All In' cost of $ 150.00 per metre, including: helicopter support, site prep, drilling costs, supervision, sampling, assaying and reporting.	$ 180,000.00
Contingency (~10%)	20,000.00
Estimated Cost of Stage II	**$ 200,000.00**
Total Estimated Cost of Stages I and II	**$ 300,000.00**

Submitted by,

MINOREX CONSULTING LTD.

J. D. Blanchflower, F.G.A.C.
Consulting Geologist

December 10, 1986
Kamloops, B.C.

STATEMENT OF QUALIFICATIONS

I, J. DOUGLAS BLANCHFLOWER, of the City of Kamloops, Province of British Columbia, DO HEREBY CERTIFY THAT:

1) I am a Consulting Geologist with a business office at Suite 200 A - 156 Victoria Street, Kamloops, British Columbia, V2C 1Z7; and President of Minorex Consulting Ltd.

2) I am a graduate in geology with a Bachelor of Science, Honours Geology degree from the University of British Columbia in 1971.

3) I am a Fellow of the Geological Association of Canada.

4) I have practised my profession as a geologist for the past fifteen years.

   Pre-Graduate experience in Geology, Geochemistry and Geophysics in British Columbia, Yukon and Northwest Territories (1966 to 1970).

   Three years as Geologist with the British Columbia Ministry of Energy, Mines and Petroleum Resources (1970 to 1972).

   Seven years as Exploration Geologist with Canadian Superior Exploration Limited (1972 to 1979).

   Three years as Exploration Geologist with Sulpetro Minerals Limited (1979 to 1982).

   Four years as Consulting Geologist with Minorex Consulting Ltd. (1982 to 1986).

   Active mineral exploration and development experience throughout Western North America.

5) I own no direct, indirect or contingent interest in the subject claims, nor shares in or securities of **EL CONDOR RESOURCES INC.**

6) I supervised the 1986 exploration programme on this property and wrote this report which documents the results.

7) I consent to the use of this report in a Prospectus or Statement of Material Facts.

J. D. Blanchflower, F.G.A.C.

Dated at Kamloops, B.C., this 10th day of December, 1986.

STATEMENT OF QUALIFICATIONS

I, DWAYNE M. J. WINDSOR, of the City of Kamloops, Province of British Columbia, DO HEREBY CERTIFY THAT:

1) I am a consulting Geological Technologist with a business office at 1013 Dundas Street, Kamloops, British Columbia, V2B 1T1; and President of Tarnex Geoservices.

2) I am a graduate Geotechnologist with a diploma from Sir Sanford Fleming College in 1978.

3) I have practised my profession for the past 11 years.

   Pre-Graduate experience in Geology, Geochemistry and Geophysics in Quebec and Saskatchewan (1976 to 1977).

   Nine years as a Geophysical and Geological Technologist with Novamin Resources (formerly Sulpetro Minerals Limited) in British Columbia, Yukon Territory, Northwest Territories, Ontario, Quebec and Nova Scotia.

   One year as Consulting Geological Technologist with Tarnex Geoservices.

4) I own no direct, indirect or contingent interest in the subject claims, nor shares in or securities of **EL CONDOR RESOURCES INC.**

5) I carried out the proton magnetometer survey of the Kemess property between September 6th and 15th, 1986.

Dwayne M. Windsor

Dated at Kamloops, B.C., this 10th day of December, 1986.

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APPENDIX I

Acme Analytical Laboratories Ltd.

Certificate of Analysis - Soil Samples

ACME ANALYTICAL LABORATORIES LTD. 852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.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.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOILS -80MESH AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: SEPT 29 1986 DATE REPORT MAILED: Oct 7/86 ASSAYER. D. Toye ...DEAN TOYE. CERTIFIED B.C. ASSAYER.

C.E.C. ENGINEERING PROJECT - P86-19 KEMESS FILE # 86-2918

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
97+00E 102+50N	3	251	52	83	2.1	4	23	988	6.60	8	5	ND	1	129	1	2	12	68	.19	.147	10	14	.43	432	.02	4	2.75	.01	.19	3	75
97+00E 102+00N	5	291	23	73	.6	8	19	353	6.39	8	5	ND	1	68	1	2	12	73	.07	.163	9	16	.43	221	.02	2	2.47	.01	.15	1	84
97+00E 101+50N	6	183	33	66	.7	8	15	311	5.24	9	5	ND	1	72	1	2	9	77	.11	.144	10	15	.41	188	.02	2	2.50	.01	.13	1	110
97+00E 101+00N	3	151	27	84	.8	5	12	475	4.98	9	5	ND	1	96	1	2	8	75	.46	.173	8	12	.41	155	.03	4	3.10	.01	.10	1	155
97+00E 100+50N	4	140	26	76	.4	11	12	479	5.51	11	5	ND	1	65	1	2	4	101	.18	.121	10	21	.76	115	.08	2	3.09	.02	.10	1	83
97+00E 100+00N	10	161	21	59	.2	5	12	355	7.11	7	5	ND	1	52	1	2	5	85	.04	.230	11	27	.80	251	.01	2	2.80	.04	.25	1	106
97+00E 99+50N	3	86	20	63	.4	7	9	361	4.46	5	5	ND	1	46	1	2	8	104	.11	.135	6	18	.30	98	.04	4	2.19	.01	.07	1	103
97+00E 99+00N	4	134	16	82	.4	11	14	281	7.18	15	5	ND	1	24	1	2	4	83	.09	.160	8	18	.46	114	.02	2	3.01	.01	.07	1	47
97+00E 98+50N	5	140	30	114	.2	23	19	573	4.38	11	5	ND	1	41	1	2	3	71	.22	.086	13	36	.82	155	.09	4	2.70	.01	.10	1	180
97+00E 98+00N	4	49	18	37	.2	9	7	169	1.99	7	5	ND	1	28	1	2	3	53	.16	.114	8	24	.36	56	.04	2	1.67	.01	.07	1	98
97+00E 97+50N	12	238	26	112	.4	18	26	795	5.93	11	5	ND	1	51	1	2	5	110	.25	.143	9	46	1.00	90	.11	3	2.95	.02	.08	1	320
97+00E 97+00N	5	85	20	75	.3	11	11	489	4.27	7	5	ND	1	54	1	2	4	93	.21	.090	5	28	.53	104	.08	2	2.25	.01	.06	1	136
97+50E 100+00N	36	108	19	47	.5	4	9	264	6.79	10	5	ND	1	22	1	2	7	109	.03	.228	8	18	.64	99	.02	4	2.97	.01	.10	3	93
97+50E 99+00N	5	78	10	34	1.0	3	6	180	3.23	6	5	ND	1	31	1	2	6	69	.09	.196	7	17	.41	103	.01	3	2.42	.01	.06	1	127
97+50E 98+50N	4	85	28	79	.4	15	13	571	3.75	6	5	ND	1	48	1	2	2	70	.33	.146	14	31	.69	112	.06	4	3.46	.02	.09	1	60
98+00E 101+50N	5	524	59	95	1.0	14	43	1694	9.11	12	5	ND	2	247	1	2	21	55	.55	.169	10	12	.75	696	.01	3	3.00	.01	.17	1	125
98+00E 101+00N	1	346	17	51	.2	3	24	608	2.35	5	5	ND	1	226	1	2	6	46	3.66	.060	5	4	.41	54	.05	2	4.86	.01	.11	1	105
98+00E 100+50N	7	231	16	112	.8	10	12	183	9.66	7	5	ND	1	24	1	2	5	203	.03	.355	10	31	2.04	172	.11	2	4.48	.02	.55	1	150
98+00E 100+00N	7	137	20	55	.5	10	11	209	7.69	10	5	ND	1	26	1	2	4	97	.03	.236	8	26	.90	143	.02	4	3.44	.01	.15	1	107
98+00E 99+50N	5	69	31	38	.3	2	6	151	5.70	20	5	ND	2	13	1	2	2	56	.05	.430	10	11	.47	74	.01	2	2.64	.01	.06	1	103
98+00E 99+00N	4	44	26	44	.6	7	7	546	2.28	5	7	ND	1	48	1	2	3	40	.25	.190	8	12	.21	129	.01	2	1.60	.01	.07	2	71
98+00E 98+50N	2	44	20	87	.2	12	8	350	2.43	7	5	ND	1	45	1	2	6	45	.28	.144	3	22	.58	84	.03	3	1.69	.01	.10	1	25
98+50E 100+00N	40	52	18	14	.2	2	7	146	5.77	13	5	ND	1	34	1	2	2	40	.06	.311	6	11	.24	72	.01	4	.99	.01	.05	1	88
99+00E 105+00N	3	76	32	88	.1	6	13	1172	5.73	4	5	ND	1	41	1	2	3	108	.36	.108	11	21	.72	83	.09	2	2.64	.01	.07	1	17
99+00E 104+50N	4	137	35	85	.8	8	17	864	4.94	2	5	ND	1	57	1	2	5	92	.19	.158	8	20	.55	166	.02	2	3.10	.01	.12	3	54
99+00E 104+00N	9	211	31	65	.7	5	16	486	6.15	11	5	ND	1	71	1	2	11	111	.17	.148	8	25	.69	166	.04	3	3.12	.01	.14	1	112
99+00E 103+50N	11	290	30	73	.8	9	17	420	6.61	8	5	ND	1	85	1	2	8	109	.13	.138	9	26	.87	258	.04	2	3.40	.02	.21	1	136
99+00E 103+00N	15	206	22	65	.6	4	12	345	7.15	12	5	ND	1	216	1	2	5	111	.09	.160	8	23	1.11	182	.05	2	3.05	.06	.50	1	82
99+00E 102+50N	20	427	8	75	.3	9	21	429	5.96	3	5	ND	1	60	1	2	4	140	.05	.156	10	26	1.23	340	.04	2	3.55	.02	.43	1	132
99+00E 102+00N	16	409	35	93	.8	9	21	372	6.00	7	5	ND	1	69	1	2	6	137	.22	.153	8	34	1.23	243	.06	5	3.89	.03	.36	1	260
99+00E 101+50N	31	379	18	87	1.4	12	19	439	6.81	6	5	ND	1	69	1	2	4	199	.22	.180	11	35	1.94	232	.15	2	3.99	.04	.80	1	360
99+00E 101+00N	17	361	16	57	.6	6	19	381	6.63	9	5	ND	1	62	1	2	6	130	.25	.158	9	23	1.39	176	.04	2	3.21	.03	.42	1	225
99+00E 100+50N	15	215	16	40	.4	3	10	187	5.59	7	5	ND	2	15	1	2	2	101	.03	.245	9	18	1.13	126	.02	2	3.12	.02	.31	1	250
99+00E 100+00N	7	124	22	27	.5	1	8	130	5.75	11	5	ND	3	18	1	2	3	52	.06	.321	16	22	.74	50	.01	2	2.89	.01	.12	2	150
99+00E 99+50N	1	111	22	113	.2	8	21	1135	3.49	10	5	ND	1	266	1	2	2	71	2.99	.112	6	13	.66	112	.11	2	4.76	.02	.15	1	32
99+50E 100+00N	6	71	26	54	.5	2	7	200	3.43	5	5	ND	1	58	1	2	5	72	.08	.156	6	19	.45	100	.01	2	2.16	.01	.07	1	69
STD C/AU-S	21	58	39	133	6.9	64	30	1006	3.95	42	20	6	33	47	16	15	21	62	.48	.109	36	58	.88	177	.08	37	1.73	.06	.14	12	52

C.E.C. ENGINEERING PROJECT - P86-19 KEMESS FILE # 86-2918

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
100+00E 105+50N	12	87	11	54	2.1	8	5	134	2.62	3	5	ND	1	56	1	2	4	50	.43	.148	12	13	.36	59	.02	3	2.18	.01	.06	1	101
100+00E 105+00N	10	82	17	58	.6	3	10	149	15.32	2	5	ND	1	42	1	3	4	73	.29	.124	2	8	.32	69	.06	4	1.32	.01	.08	1	52
100+00E 104+50N	15	295	22	96	.4	10	16	349	6.19	3	5	ND	1	118	1	2	3	101	.18	.130	8	25	1.10	493	.06	2	3.22	.02	.25	1	109
100+00E 104+00N	8	308	29	98	1.0	9	20	680	7.83	12	5	ND	1	109	1	2	9	117	.36	.165	5	29	.94	188	.10	5	3.48	.02	.18	2	205
100+00E 103+50N	6	207	46	84	.9	7	14	453	5.86	5	5	ND	1	100	1	2	10	119	.24	.139	7	29	.72	190	.05	3	3.86	.02	.13	1	128
100+00E 103+00N	9	683	3	47	2.9	4	1	63	2.09	2	5	ND	1	11	1	2	2	21	.05	.265	14	10	.22	26	.01	2	2.23	.01	.04	1	66
100+00E 102+50N	17	378	16	82	.8	12	18	487	6.56	4	5	ND	1	33	1	2	5	212	.06	.173	3	36	1.62	211	.09	2	4.25	.02	.43	1	250
100+00E 102+00N	10	172	28	57	.3	4	9	190	4.85	4	5	ND	1	42	1	2	6	96	.05	.210	7	17	.70	213	.01	2	2.88	.02	.15	1	122
100+00E 101+50N	13	217	23	58	.5	9	11	332	6.27	2	5	2	1	62	1	2	5	113	.05	.228	5	27	.88	265	.02	4	2.85	.03	.23	1	101
100+00E 101+00N	26	425	9	85	1.0	14	20	403	7.23	9	5	ND	1	85	1	2	2	157	.08	.157	5	26	1.60	128	.09	5	3.83	.03	.53	1	240
100+00E 100+50N	37	558	19	85	1.1	17	4	382	9.27	7	5	ND	1	66	1	2	2	210	.20	.157	2	26	2.03	96	.16	2	3.57	.07	1.00	1	580
100+00E 100+00N	4	186	16	106	.2	7	14	529	4.74	5	5	ND	1	52	1	3	4	54	.28	.130	2	10	.68	126	.04	4	1.90	.01	.18	1	44
100+00E 99+50N	12	161	24	86	.5	7	10	391	6.04	5	5	ND	1	33	1	2	3	127	.07	.135	4	20	1.47	91	.03	4	3.96	.02	.15	1	160
100+00E 99+00N	3	73	18	105	.3	9	11	527	4.11	5	5	ND	1	57	1	2	6	73	.17	.138	5	22	.62	118	.04	3	3.09	.01	.08	1	62
100+00E 98+00N	3	90	32	114	1.0	15	13	503	4.90	10	5	ND	1	73	1	5	6	79	.31	.188	6	31	.75	133	.04	6	3.96	.01	.08	1	71
100+50E 100+00N	11	111	12	70	.1	11	9	329	4.93	5	5	ND	1	29	1	2	4	135	.07	.134	5	24	1.10	107	.05	4	3.10	.01	.19	1	110
101+00E 106+50N	3	63	17	53	.2	4	6	464	2.83	3	5	ND	1	52	1	2	3	58	.26	.103	5	9	.42	59	.04	2	1.42	.01	.07	1	52
101+00E 106+00N	27	299	23	64	2.3	11	14	256	4.65	4	5	ND	1	67	1	2	5	78	.12	.186	11	35	.96	171	.03	4	3.09	.01	.12	1	133
101+00E 105+50N	54	361	22	36	.4	4	16	151	9.68	4	5	ND	1	32	1	2	2	60	.12	.100	10	9	.67	85	.01	4	1.93	.01	.10	1	139
101+00E 105+00N	1	1785	26	8	1.2	1	13	111	49.67	17	5	ND	3	2	6	2	3	7	.02	.064	27	10	.05	6	.01	5	.41	.01	.03	1	18
101+00E 104+50N	8	1636	37	7	.1	1	12	108	44.81	17	5	ND	2	2	4	2	3	53	.02	.132	36	8	.07	8	.02	5	.51	.01	.04	1	29
101+00E 104+00N	47	609	18	22	1.0	1	6	95	18.62	2	5	ND	1	16	1	2	2	35	.06	.072	12	3	.42	61	.01	4	1.21	.01	.10	1	123
101+00E 103+50N	18	93	17	43	.3	7	6	190	3.86	7	5	ND	1	46	1	3	6	44	.07	.106	13	11	.68	178	.01	2	2.56	.01	.16	2	96
101+00E 103+00N	93	68	15	33	.4	1	5	90	4.65	6	5	ND	3	17	1	4	2	40	.02	.070	16	8	.76	111	.01	4	1.96	.01	.14	1	320
101+00E 102+50N	20	179	22	93	.2	12	12	447	7.38	3	5	ND	1	63	1	2	5	173	.07	.163	10	27	1.48	250	.09	2	3.45	.02	.42	1	114
101+00E 102+00N	23	264	12	72	.4	12	13	324	6.56	6	5	ND	1	52	1	2	4	131	.06	.217	14	25	1.14	177	.03	2	3.81	.01	.23	1	180
101+00E 101+50N	12	81	13	51	.8	7	6	224	3.78	2	5	ND	1	49	1	2	4	91	.08	.135	10	20	.65	115	.02	4	2.90	.01	.11	1	99
101+00E 101+00N	22	375	6	102	.7	15	18	399	7.19	7	5	ND	1	63	1	2	2	172	.06	.156	9	28	1.82	219	.09	5	5.43	.02	.48	1	350
101+00E 100+50N	8	75	14	26	1.2	6	4	108	1.95	3	5	ND	1	23	1	3	4	29	.07	.238	6	10	.26	65	.01	2	2.53	.01	.06	1	56
101+00E 100+00N	25	253	19	116	.6	12	16	578	7.40	5	5	ND	1	56	1	2	5	140	.15	.200	9	24	1.52	193	.09	6	3.75	.02	.33	1	170
101+00E 99+50N	51	230	37	88	1.4	8	13	393	7.27	11	5	ND	1	59	1	2	5	88	.15	.269	12	24	1.51	205	.01	2	3.13	.05	.17	1	330
101+00E 99+00N	2	18	14	90	.4	6	10	1000	3.63	6	5	ND	1	63	1	2	3	61	.31	.082	5	12	.81	143	.08	2	1.64	.02	.11	1	20
101+00E 98+50N	29	65	32	141	1.4	9	6	618	6.27	6	5	ND	1	60	1	2	6	82	.17	.306	11	22	2.06	95	.01	4	3.55	.04	.06	1	440
101+00E 98+00N	8	132	42	189	.1	16	15	686	6.33	16	5	ND	1	58	1	3	6	87	.26	.273	11	30	1.02	149	.02	2	4.24	.01	.10	1	79
101+00E 97+50N	1	105	42	189	.5	13	19	1049	4.14	7	5	ND	1	99	2	3	2	73	1.15	.057	9	25	.86	232	.13	5	2.77	.01	.09	1	19
101+00E 97+00N	1	104	33	192	.5	12	18	973	4.05	4	5	ND	1	94	1	3	3	70	1.03	.052	9	24	.82	230	.11	2	2.47	.01	.07	1	78
STD C/AU-S	20	58	37	131	6.9	65	28	993	3.96	39	19	7	33	47	17	15	22	61	.48	.111	39	56	.88	176	.08	38	1.73	.06	.13	14	49

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SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
101+50E 100+00N	44	325	28	106	1.0	9	18	566	7.79	3	5	ND	1	63	1	2	2	149	.13	.225	6	22	1.84	121	.08	3	3.95	.03	.37	1	340
102+00E 106+00N	3	21	22	74	.5	5	6	418	3.51	3	5	ND	1	61	1	2	2	73	.55	.102	8	8	.41	64	.07	5	3.67	.01	.06	1	32
102+00E 105+50N	2	54	23	94	.1	6	10	1408	2.72	2	5	ND	1	163	1	2	2	57	2.53	.116	8	9	.54	78	.05	2	4.18	.01	.16	1	21
102+00E 105+00N	19	351	33	53	.3	2	24	251	24.19	9	5	ND	2	54	1	3	2	57	.12	.138	23	14	.43	137	.04	11	1.62	.01	.12	1	71
102+00E 104+50N	44	1801	52	157	.1	2	17	193	43.80	24	5	ND	2	4	2	2	2	26	.03	.411	57	8	.07	10	.01	2	1.38	.01	.03	1	36
102+00E 104+00N	25	180	31	70	.5	10	14	412	6.38	7	5	ND	1	108	1	2	2	85	.51	.163	12	19	.72	255	.03	4	3.68	.02	.19	1	72
102+00E 103+50N	22	153	28	55	.7	10	10	222	4.85	5	5	ND	1	77	1	2	3	83	.10	.140	10	19	.64	222	.02	5	2.82	.01	.15	1	81
102+00E 102+50N	4	37	7	23	1.6	9	3	84	1.29	2	5	ND	1	23	1	2	3	27	.07	.223	4	17	.17	43	.01	2	2.20	.01	.04	1	16
102+00E 102+00N	28	192	26	120	.3	22	16	530	7.75	4	5	ND	1	63	1	2	2	259	.09	.127	12	33	2.49	150	.18	2	4.82	.02	.61	1	110
102+00E 101+50N	30	440	21	112	1.0	19	25	467	7.19	9	5	ND	2	99	1	2	2	148	.16	.153	7	31	1.96	232	.14	7	4.23	.03	.67	1	250
102+00E 101+00N	4	21	11	24	.4	4	4	118	2.28	2	5	ND	1	35	1	2	2	58	.11	.066	5	17	.18	80	.05	2	1.47	.01	.04	1	48
102+00E 100+50N	9	101	12	29	1.5	8	6	130	2.73	4	5	ND	1	20	1	3	3	43	.05	.201	15	21	.34	66	.01	2	2.59	.01	.05	1	194
102+00E 100+00N	12	86	17	67	.4	10	8	382	4.53	6	5	ND	1	37	1	2	3	108	.08	.143	7	21	.89	80	.03	2	2.75	.01	.11	1	145
102+00E 99+50N	27	178	23	97	1.6	8	14	513	8.51	9	5	ND	2	67	1	2	6	90	.08	.259	8	25	1.50	155	.02	6	3.05	.02	.11	1	470
102+00E 99+00N	13	82	42	91	.6	9	12	635	7.88	13	5	ND	1	65	1	3	2	86	.14	.213	9	23	.79	201	.06	4	2.76	.02	.11	1	125
102+00E 98+50N	6	40	12	62	.3	7	7	353	4.40	4	5	ND	1	41	1	2	2	67	.09	.152	7	20	.56	116	.02	3	2.73	.01	.05	1	106
102+00E 98+00N	9	33	41	73	.8	9	5	395	4.86	17	5	ND	1	56	1	2	2	79	.07	.250	8	25	1.36	103	.01	2	2.22	.02	.05	1	280
102+50E 100+00N	7	46	8	25	1.2	4	4	142	2.49	2	5	ND	1	38	1	2	2	29	.12	.173	4	11	.17	88	.01	2	1.33	.01	.05	1	43
103+00E 106+00N	2	18	25	139	.1	3	5	661	1.99	2	5	ND	1	157	1	2	5	35	2.97	.074	7	7	.54	44	.06	2	3.95	.01	.13	1	15
103+00E 105+50N	5	34	17	38	1.0	4	4	140	1.64	3	5	ND	1	32	1	3	2	32	.15	.140	6	12	.26	48	.01	2	2.23	.01	.04	2	36
103+00E 105+00N	8	110	35	87	.5	5	12	399	5.31	6	5	ND	1	118	1	2	2	73	.78	.169	11	13	.52	166	.04	3	3.61	.04	.14	1	31
103+00E 104+50N	74	136	44	80	.9	12	10	346	6.78	13	5	ND	1	112	1	2	2	117	.06	.190	7	56	1.64	161	.07	2	2.67	.03	.23	1	330
103+00E 104+00N	67	203	19	67	1.1	9	13	265	8.15	9	5	ND	2	206	1	2	2	107	.04	.162	8	24	1.23	81	.05	2	3.00	.09	.53	1	290
103+00E 103+50N	17	70	47	64	.8	6	7	262	5.10	7	5	ND	1	78	1	2	4	95	.06	.170	8	27	.82	380	.03	3	2.22	.03	.17	1	121
103+00E 103+00N	5	21	7	36	.3	4	6	188	2.76	2	5	ND	1	24	1	2	2	68	.06	.074	6	21	.29	67	.02	3	1.49	.01	.06	1	53
103+00E 102+50N	37	112	29	57	.5	12	7	221	4.67	4	5	ND	1	63	1	2	3	140	.04	.123	11	29	.76	145	.03	4	2.63	.01	.18	1	132
103+00E 102+00N	64	334	21	105	1.0	22	18	402	6.11	7	5	ND	1	97	1	2	2	130	.15	.154	10	64	1.56	151	.07	5	3.68	.02	.30	1	240
103+00E 101+50N	26	208	20	82	1.1	13	14	501	6.48	4	5	ND	1	92	1	2	2	140	.17	.197	11	23	1.07	119	.07	3	3.73	.01	.21	1	150
103+00E 101+00N	26	198	24	79	.8	15	14	402	6.02	5	5	ND	1	61	1	2	3	134	.10	.129	9	44	1.10	168	.04	4	3.28	.01	.19	1	185
103+00E 100+50N	87	391	9	94	1.6	11	21	403	7.23	10	5	ND	1	84	1	2	2	173	.23	.134	11	23	1.52	165	.12	2	4.16	.03	.39	1	510
103+00E 100+00N	16	141	14	62	.5	10	12	378	6.41	3	5	ND	1	32	1	2	2	114	.08	.186	9	29	.77	99	.03	3	3.33	.01	.10	1	108
103+00E 99+50N	20	66	32	35	.1	4	7	259	5.73	4	5	ND	1	27	1	2	3	138	.05	.117	9	17	.35	141	.04	2	1.79	.01	.07	1	132
103+00E 99+00N	9	130	37	156	.8	11	12	481	3.77	12	5	ND	1	42	1	2	5	49	.29	.231	7	19	1.02	86	.01	4	3.22	.01	.05	1	220
103+00E 98+50N	12	197	37	111	1.8	19	15	394	12.25	13	5	ND	1	81	1	2	2	90	.32	.262	11	110	1.85	64	.02	3	3.06	.02	.05	1	770
103+50E 100+00N	29	76	29	66	.4	8	10	390	9.25	14	5	ND	1	32	1	2	3	103	.05	.180	10	27	.67	168	.05	7	2.71	.01	.08	1	138
STD C/AU-S	22	58	39	134	6.9	74	30	1033	3.97	42	21	7	33	48	18	16	19	63	.48	.104	38	59	.89	180	.08	38	1.73	.06	.14	13	51

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SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
104+00E 106+00N	1	66	52	190	.4	3	12	925	3.87	7	5	ND	3	215	2	2	3	65	4.12	.075	8	10	.82	48	.11	2	5.29	.02	.16	1	105
104+00E 105+50N	1	53	35	187	.5	3	11	954	3.11	6	5	ND	2	185	1	2	6	52	3.34	.081	6	6	.73	44	.09	2	4.88	.01	.15	1	210
104+00E 105+00N	3	105	68	121	1.5	1	15	737	5.12	7	5	ND	2	194	1	2	8	46	2.19	.158	11	5	.45	130	.05	6	4.63	.02	.18	1	173
104+00E 104+50N	4	140	52	87	4.3	4	11	577	5.63	8	5	ND	1	50	1	2	11	69	.33	.114	8	11	.62	128	.06	4	3.06	.02	.10	2	230
104+00E 104+00N	15	11	61	7	.9	1	2	24	4.27	4	5	ND	1	16	1	2	5	19	.01	.039	3	10	.07	43	.01	4	.47	.01	.02	1	124
104+00E 103+50N	71	108	32	64	1.3	10	8	272	8.43	10	5	ND	1	64	1	2	9	119	.03	.115	7	65	1.17	222	.07	2	3.26	.04	.20	1	540
104+00E 103+00N	42	51	28	38	.7	7	4	91	3.74	8	5	ND	1	19	1	2	5	65	.02	.079	6	22	.85	61	.01	2	1.77	.01	.05	1	430
104+00E 102+50N	70	87	19	52	.7	6	7	342	6.45	5	5	ND	1	46	1	2	6	97	.05	.175	8	18	1.08	200	.01	2	2.37	.02	.17	1	410
104+00E 102+00N	136	439	27	115	1.3	22	23	506	8.35	7	5	ND	2	91	1	2	6	169	.18	.147	11	90	2.00	98	.15	2	4.07	.01	.26	1	520
104+00E 101+50N	65	538	29	100	.4	8	22	255	9.04	3	5	ND	1	213	1	2	4	108	.03	.116	9	27	1.20	95	.08	2	2.62	.04	.49	1	220
104+00E 101+00N	143	230	35	100	1.6	25	13	477	7.90	11	5	ND	1	73	1	2	6	120	.08	.162	12	127	1.61	179	.12	4	3.31	.02	.28	1	510
104+00E 100+50N	31	42	26	33	.5	5	4	132	5.07	3	5	ND	1	24	1	2	5	81	.05	.121	7	18	.35	66	.02	2	2.19	.01	.03	1	200
104+00E 100+00N	50	52	36	41	.7	3	7	191	10.38	13	5	ND	1	19	1	4	8	98	.02	.095	5	17	.49	39	.04	5	2.04	.01	.04	1	260
104+00E 99+50N	57	65	33	59	.5	9	8	347	8.10	8	5	ND	1	31	1	2	6	77	.05	.129	8	26	.80	227	.04	2	2.20	.01	.09	1	210
104+00E 99+00N	4	259	103	120	16.1	7	14	606	7.55	43	5	ND	1	68	1	4	11	60	.45	.225	3	29	.83	93	.02	6	3.06	.01	.05	1	320
104+50E 100+00N	48	438	74	75	1.3	11	23	363	14.52	14	5	ND	2	138	1	2	3	135	.04	.210	2	68	1.41	176	.14	5	2.52	.06	.41	1	260
105+00E 106+50N	1	20	25	88	1.0	2	5	702	1.81	4	5	ND	2	202	1	3	2	30	3.50	.060	4	3	.51	37	.05	3	4.46	.01	.17	1	156
105+00E 106+00N	1	23	28	45	.1	1	8	411	1.38	2	5	ND	2	218	1	2	2	17	4.25	.051	4	1	.23	35	.02	2	4.92	.01	.13	1	26
105+00E 105+50N	3	40	32	49	.3	1	7	288	2.91	3	5	ND	1	133	1	2	3	32	1.57	.150	7	3	.22	75	.02	3	4.39	.01	.10	1	94
105+00E 105+00N	3	415	61	82	20.2	3	23	594	5.35	9	5	ND	2	170	1	2	24	48	2.38	.102	6	8	.42	58	.06	7	4.51	.03	.13	1	790
105+00E 104+50N	7	28	134	25	.4	1	5	160	5.31	9	5	ND	1	27	1	3	5	34	.04	.062	3	7	.18	162	.02	4	.76	.01	.09	1	78
105+00E 104+00N	18	35	73	41	.9	4	3	75	3.81	11	5	ND	1	80	1	2	8	61	.01	.085	5	15	.67	138	.01	4	1.63	.01	.12	1	250
105+00E 103+50N	16	14	49	32	1.2	3	2	35	2.78	9	5	ND	1	23	1	2	2	33	.01	.051	4	11	.24	90	.01	2	.73	.01	.03	1	420
105+00E 103+00N	54	48	36	39	.7	8	4	76	4.36	9	5	ND	1	21	1	2	6	55	.01	.101	6	21	.81	67	.01	5	1.68	.01	.06	1	620
105+00E 102+50N	46	41	27	36	1.0	4	4	85	4.01	10	5	ND	1	20	1	2	6	38	.02	.084	5	12	.68	101	.01	2	1.30	.01	.06	1	640
105+00E 102+00N	130	402	39	132	2.4	12	19	648	10.45	10	5	ND	1	121	1	2	11	145	.20	.323	15	31	1.79	210	.03	3	3.31	.03	.35	1	660
105+00E 101+50N	79	89	44	74	.9	9	8	427	9.26	5	5	ND	1	55	1	2	9	126	.04	.158	10	29	1.19	176	.04	5	2.35	.02	.10	1	510
105+00E 101+00N	67	93	34	63	.8	7	9	409	7.85	7	5	ND	1	33	1	2	8	107	.03	.157	8	40	1.03	70	.02	5	2.40	.01	.05	1	740
105+00E 100+50N	89	149	32	76	1.1	16	9	462	8.57	7	5	ND	1	66	1	2	7	114	.03	.144	11	60	1.96	168	.01	4	3.35	.02	.12	1	770
105+00E 100+00N	42	53	28	23	.8	3	6	118	7.46	10	5	ND	1	20	1	2	5	114	.03	.130	8	18	.25	56	.02	3	1.76	.01	.02	1	310
105+00E 99+50N	24	126	56	121	2.0	9	11	641	8.60	23	5	ND	1	101	1	2	9	114	.39	.192	9	58	1.83	85	.10	5	3.28	.02	.07	1	580
105+50E 100+00N	72	63	35	120	1.8	10	7	621	9.58	10	5	2	1	306	1	2	8	169	.08	.185	11	68	2.84	54	.08	3	3.09	.05	.15	3	870
106+00E 106+50N	1	36	20	95	.2	4	6	693	2.29	4	5	ND	3	242	1	2	5	40	4.19	.053	6	5	.46	77	.06	2	5.64	.01	.16	1	200
106+00E 106+00N	3	284	43	46	5.9	3	28	581	2.52	12	5	ND	3	258	1	3	146	30	5.96	.044	3	4	.35	29	.03	2	6.63	.03	.17	3	550
106+00E 105+50N	1	906	42	62	8.2	1	10	558	3.86	14	5	2	3	279	1	5	18	33	5.41	.058	7	4	.38	39	.06	3	6.54	.02	.17	1	1090
106+00E 105+00N	3	66	185	57	.4	3	9	329	4.81	14	5	ND	2	78	1	2	5	50	.24	.102	7	8	.49	481	.04	4	1.65	.02	.16	1	23
STD C/AU-S	21	57	40	133	7.0	68	29	1004	3.96	41	20	8	33	47	18	16	19	62	.48	.103	36	58	.88	176	.08	34	1.73	.06	.13	13	52

C.E.C. ENGINEERING PROJECT - P86-19 KEMESS FILE # 86-2918

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
106+00E 104+50N	14	6	16	1	.2	1	2	17	5.77	3	5	ND	1	4	1	2	2	5	.01	.010	5	2	.01	47	.01	4	.15	.01	.03	1	64
106+00E 104+00N	15	7	15	1	.3	1	3	17	5.93	7	5	ND	1	4	1	2	3	5	.01	.009	5	2	.01	45	.01	2	.14	.01	.03	1	82
106+00E 103+50N	19	11	48	17	1.3	4	2	27	4.32	10	5	ND	1	24	1	2	2	29	.01	.030	3	15	.21	98	.01	2	.53	.01	.05	1	490
106+00E 103+00N	66	45	36	30	.9	8	4	66	5.36	15	5	2	2	46	1	2	4	58	.01	.167	9	25	.86	114	.01	6	1.75	.01	.09	1	660
106+00E 102+50N	62	67	26	26	1.1	5	5	104	5.87	13	5	ND	1	15	1	2	4	50	.02	.098	7	10	.58	47	.01	2	.90	.01	.06	1	450
106+00E 102+00N	82	114	29	91	1.4	8	9	501	7.78	12	5	ND	2	44	1	2	6	100	.21	.356	14	23	2.06	139	.01	5	3.06	.02	.09	1	640
106+00E 101+50N	57	138	32	80	1.9	12	10	487	5.82	15	5	2	2	116	1	2	3	93	.72	.300	17	19	1.65	213	.06	2	3.57	.01	.16	1	840
106+00E 101+00N	62	183	39	70	.9	13	10	438	4.95	12	5	ND	1	128	1	2	2	77	.57	.140	12	37	1.52	149	.01	3	3.29	.06	.20	1	440
106+00E 100+50N	66	212	24	152	1.6	27	12	678	8.89	11	5	ND	2	227	1	2	7	234	.19	.250	11	154	3.51	17	.27	2	4.09	.01	.08	1	420
106+00E 100+00N	13	59	59	101	.8	7	6	405	7.74	20	5	ND	1	62	1	5	11	114	.06	.104	9	45	2.15	43	.03	3	2.35	.02	.05	1	550
106+00E 99+50N	24	158	62	97	1.6	7	12	460	11.63	39	5	ND	1	225	1	2	11	115	.05	.230	14	49	1.58	122	.10	2	2.57	.19	.11	1	290
106+00E 99+00N	8	127	59	69	1.0	5	11	278	16.23	25	5	ND	2	67	1	2	12	101	.09	.189	7	32	1.27	40	.27	2	1.42	.02	.04	1	630
106+50E 100+00N	6	122	46	135	1.6	10	10	669	12.06	46	5	ND	2	120	1	2	8	140	.12	.268	9	53	2.36	105	.09	2	2.78	.05	.06	1	470
107+00E 106+00N	1	44	15	57	.4	3	8	554	1.97	2	5	ND	2	169	1	2	5	32	2.85	.058	4	4	.41	51	.03	3	3.85	.01	.12	1	175
107+00E 105+50N	2	158	34	51	1.6	6	23	588	3.95	6	5	ND	2	166	1	2	7	41	2.75	.092	5	7	.35	55	.06	5	4.63	.01	.12	1	620
107+00E 105+00N	16	3	26	1	.4	3	1	9	2.71	5	5	ND	1	9	1	2	2	7	.01	.011	3	8	.01	124	.01	3	.17	.01	.02	1	128
107+00E 104+50N	46	20	63	41	2.2	1	2	13	3.71	7	5	ND	1	12	1	3	8	8	.01	.014	2	5	.03	17	.01	3	.17	.01	.02	1	152
107+00E 104+00N	71	14	53	8	1.8	1	3	17	3.40	10	5	ND	1	21	1	2	14	13	.01	.031	4	5	.11	30	.01	5	.34	.01	.02	1	410
107+00E 103+50N	63	41	19	31	.6	5	4	118	5.65	5	5	ND	1	8	1	2	2	79	.01	.036	5	19	.91	8	.01	2	1.08	.01	.02	1	450
107+00E 103+00N	68	38	25	59	.9	7	5	235	4.10	13	5	ND	2	5	1	2	6	61	.01	.042	13	13	1.65	56	.01	3	1.68	.01	.04	1	1100
107+00E 102+50N	220	63	26	62	2.1	7	4	269	5.84	10	5	2	3	9	1	2	4	58	.03	.053	23	15	1.11	14	.01	5	1.47	.01	.03	1	1060
107+00E 102+00N	100	29	14	19	1.4	4	3	93	3.80	10	5	ND	3	4	1	2	9	36	.01	.021	29	9	.41	8	.01	2	.81	.01	.02	1	2110
107+00E 101+50N	103	28	11	19	1.3	4	3	96	3.89	9	5	ND	3	4	1	2	8	37	.01	.025	29	9	.42	9	.01	3	.83	.01	.02	3	1330
107+00E 101+00N	166	51	22	53	1.2	8	4	290	4.84	9	5	3	2	19	1	2	2	72	.02	.100	17	24	1.68	41	.01	2	2.05	.02	.07	1	1690
107+00E 100+50N	4	163	49	94	1.4	5	12	404	16.44	36	5	ND	1	178	1	2	13	114	.17	.296	12	40	1.77	65	.05	2	2.13	.05	.05	1	680
107+00E 100+00N	181	51	16	50	1.1	8	4	293	5.41	5	5	2	2	11	1	2	6	79	.02	.075	16	28	1.84	17	.01	2	2.20	.01	.03	2	1890
107+50E 100+00N	3	165	43	109	.9	16	13	456	17.80	36	5	ND	1	81	1	2	12	175	.15	.204	7	166	2.52	32	.21	2	2.37	.02	.03	1	530
108+00E 106+50N	1	85	14	68	2.0	2	9	617	2.34	2	5	ND	2	191	1	2	6	40	3.13	.056	5	6	.51	44	.05	3	4.25	.01	.15	1	170
108+00E 106+00N	1	76	44	75	.6	4	10	792	2.88	7	5	ND	2	178	2	2	7	54	2.48	.084	6	8	.68	47	.07	5	3.79	.01	.14	1	88
108+00E 105+50N	2	158	34	87	1.5	5	16	725	3.21	5	5	ND	2	210	1	2	7	44	2.87	.085	5	7	.47	102	.06	3	4.52	.01	.16	1	310
108+00E 105+00N	7	7	41	4	.1	2	1	21	1.26	3	5	ND	1	11	1	2	2	7	.02	.018	3	8	.03	26	.01	4	.27	.01	.01	1	90
108+00E 104+50N	14	5	34	1	.3	2	2	11	2.38	7	5	ND	1	10	1	2	2	9	.01	.017	3	7	.01	15	.01	4	.23	.01	.01	1	130
108+00E 104+00N	27	18	53	14	3.2	3	2	16	2.30	4	5	ND	1	9	1	2	3	11	.01	.032	2	7	.08	43	.01	6	.43	.01	.02	1	150
108+00E 103+50N	43	10	27	46	1.0	7	1	68	1.89	2	5	ND	1	12	1	2	4	35	.01	.025	4	16	.87	26	.01	4	1.22	.01	.02	1	290
108+00E 103+00N	57	43	21	66	1.3	9	4	295	4.08	6	5	ND	1	9	1	2	3	73	.02	.052	8	23	2.02	19	.01	4	2.30	.01	.02	1	480
108+00E 102+50N	131	64	21	55	1.4	8	5	264	6.45	9	5	ND	2	3	1	2	2	76	.01	.069	17	21	1.28	15	.01	2	1.71	.01	.02	1	1830
STD C/AU-S	21	57	41	132	6.9	70	29	1006	3.94	42	18	7	33	48	17	15	20	62	.48	.111	36	58	.88	180	.08	37	1.73	.06	.13	13	49

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SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
108+00E 102+00N	98	88	34	72	3.4	8	6	361	4.65	6	5	2	1	142	1	2	3	75	.10	.170	22	19	1.78	128	.01	3	2.36	.01	.10	1	1350
108+00E 101+50N	116	26	19	52	.8	11	3	297	3.33	3	5	ND	1	28	1	2	2	57	.02	.051	14	23	1.86	25	.01	2	1.92	.01	.02	1	1330
108+00E 101+00N	124	105	27	63	1.7	12	7	419	5.41	6	5	3	1	58	1	2	2	68	.09	.247	14	53	1.78	72	.01	2	2.49	.02	.05	1	930
108+00E 100+50N	100	72	30	77	1.0	9	5	400	5.39	4	5	ND	1	26	1	2	2	72	.04	.144	13	42	1.97	49	.01	2	2.39	.01	.04	1	1010
108+00E 100+00N	6	212	74	112	2.9	8	16	505	17.07	70	6	ND	2	109	1	4	2	115	.22	.322	4	42	1.65	57	.13	2	2.28	.02	.05	1	630
108+50E 100+00N	5	240	364	171	14.4	1	15	734	12.69	93	6	ND	1	120	1	2	2	84	.61	.225	11	37	1.31	95	.14	2	2.79	.02	.06	1	420
109+00E 106+50N	1	58	29	71	.7	2	8	499	2.90	2	6	ND	1	155	1	2	5	53	2.27	.071	5	6	.55	57	.05	4	3.95	.02	.10	1	119
109+00E 106+00N	30	53	37	31	.3	1	7	274	9.63	18	5	ND	1	39	1	3	2	99	.25	.087	7	16	.30	60	.09	3	1.27	.01	.06	1	128
109+00E 105+50N	40	22	48	7	.7	1	3	31	5.47	9	5	ND	1	13	1	3	2	34	.01	.044	3	15	.09	19	.01	4	.43	.01	.02	1	260
109+00E 105+00N	39	17	40	17	1.5	1	2	79	3.27	11	5	ND	1	19	1	2	2	34	.02	.030	4	15	.31	27	.03	3	.56	.01	.03	1	340
109+00E 104+50N	38	15	24	24	.6	4	2	70	2.36	5	5	ND	1	9	1	2	3	34	.01	.023	3	25	.52	21	.01	3	.67	.01	.02	1	305
109+00E 104+00N	108	28	18	78	1.2	12	3	380	6.12	2	5	ND	1	13	1	2	2	77	.01	.059	13	49	2.14	51	.01	2	2.35	.01	.10	1	1090
109+00E 103+50N	71	59	23	50	1.2	8	6	265	9.19	13	5	ND	1	32	1	2	2	70	.02	.130	7	23	1.16	115	.03	2	2.19	.02	.09	1	405
109+00E 103+00N	47	278	35	41	4.1	5	16	263	15.74	11	6	ND	1	12	1	3	2	66	.02	.123	4	37	.94	28	.02	2	1.67	.01	.03	1	330
109+00E 102+50N	70	26	28	29	.9	4	2	111	3.96	7	5	ND	1	26	1	2	2	64	.01	.049	4	15	1.11	50	.02	3	1.55	.01	.02	1	330
109+00E 102+00N	32	55	50	68	.4	7	6	378	6.09	18	5	ND	1	25	1	2	2	138	.05	.145	7	25	.85	69	.05	4	1.90	.01	.04	1	390
109+00E 101+50N	24	94	113	114	1.4	4	9	633	9.47	43	5	ND	1	53	1	2	2	146	.09	.198	10	39	1.51	104	.09	2	2.66	.02	.05	1	1090
109+00E 101+00N	29	48	35	72	.5	7	5	377	6.34	19	5	ND	1	33	1	2	2	120	.06	.156	5	38	1.23	55	.03	3	2.07	.01	.03	1	480
109+00E 100+50N	13	472	133	385	2.7	13	32	1039	9.10	228	5	ND	1	92	1	2	2	105	.57	.162	4	46	1.79	80	.08	2	3.69	.02	.07	1	350
109+50E 101+00N	33	59	42	109	.7	8	6	766	8.95	13	5	ND	1	65	1	2	9	143	.06	.180	7	47	1.88	110	.06	2	2.53	.03	.04	1	470
110+00E 107+00N	36	53	66	67	.9	6	6	316	8.76	45	5	ND	1	24	1	2	2	102	.05	.141	6	25	.67	42	.08	2	1.72	.01	.04	1	305
110+00E 106+50N	11	56	66	39	2.9	8	8	257	10.15	13	5	ND	1	28	1	2	2	83	.08	.113	3	40	.39	130	.11	2	1.77	.01	.04	1	58
110+00E 106+00N	12	75	131	74	2.1	10	7	319	8.00	37	5	ND	1	37	1	2	2	67	.07	.137	7	38	.55	130	.10	2	2.90	.01	.05	1	125
110+00E 105+50N	49	31	45	55	.3	5	4	431	5.97	22	5	ND	1	16	1	2	2	118	.03	.082	6	31	.91	56	.05	2	1.57	.01	.02	1	195
110+00E 105+00N	22	43	50	93	.6	6	5	416	10.14	26	5	ND	1	37	1	2	2	108	.06	.112	7	34	1.58	72	.18	2	2.28	.01	.04	1	630
110+00E 104+50N	12	13	215	38	2.8	5	2	164	2.95	35	5	ND	2	77	1	4	4	42	.02	.066	10	18	.74	212	.04	4	.88	.02	.04	1	440
110+00E 104+00N	14	2	12	4	.1	1	1	16	.45	3	5	ND	1	5	1	2	2	24	.01	.015	2	6	.02	7	.01	2	.24	.01	.01	1	123
110+00E 103+50N	18	72	164	92	3.0	7	7	532	8.48	34	5	3	1	44	1	2	4	116	.09	.148	7	41	1.12	118	.11	2	2.47	.01	.05	2	360
110+00E 103+00N	21	36	25	53	.4	8	4	217	4.51	11	5	ND	1	19	1	2	2	70	.06	.087	6	23	1.07	29	.04	5	1.71	.01	.03	1	270
110+00E 102+50N	17	35	23	43	.3	10	4	165	4.29	10	5	ND	1	21	1	2	2	85	.04	.092	5	43	.98	29	.03	2	1.53	.01	.02	1	160
110+00E 102+00N	13	74	46	67	1.0	7	6	323	3.69	18	5	ND	1	37	1	2	2	77	.09	.107	6	26	.79	85	.04	2	2.33	.01	.04	1	230
110+00E 101+50N	24	72	40	104	.7	10	8	580	8.72	25	5	ND	1	37	1	2	3	126	.09	.185	8	41	1.50	66	.06	2	2.61	.01	.04	1	430
110+00E 101+00N	7	554	65	296	5.4	17	45	2260	3.55	73	5	ND	1	100	3	2	2	51	1.14	.103	5	13	.90	41	.05	2	7.72	.01	.07	1	111
110+50E 101+50N	27	116	50	96	1.3	10	9	502	11.77	27	5	ND	1	114	1	2	8	119	.21	.199	8	40	1.49	142	.11	2	2.53	.06	.07	1	1040
STD C/AU-S	20	57	40	132	6.8	67	29	996	3.96	38	22	8	33	47	17	17	19	61	.48	.105	37	57	.88	176	.08	36	1.73	.06	.13	14	50

C.E.C. ENGINEERING PROJECT - F86-19 KEMESS FILE # 86-2918

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
111+00E 107+00N	2	87	76	17	1.0	1	12	129	34.30	22	5	ND	2	12	1	3	5	23	.03	.058	6	13	.22	34	.02	4	.28	.01	.04	7	70
111+00E 106+50N	6	20	87	24	.5	1	7	141	19.09	14	5	ND	1	19	1	2	8	34	.03	.039	2	14	.36	44	.03	5	.41	.01	.03	1	150
111+00E 106+00N	2	81	99	19	.7	2	13	141	36.58	40	5	ND	2	8	1	4	2	61	.02	.134	7	16	.18	24	.02	3	.32	.01	.02	9	58
111+00E 105+50N	6	50	45	30	1.9	2	8	159	17.55	12	5	ND	1	10	1	2	6	85	.04	.152	2	24	.39	26	.03	3	1.04	.01	.03	1	250
111+00E 105+00N	16	63	95	59	2.3	5	6	353	6.45	36	6	ND	1	37	1	2	3	108	.06	.160	2	29	.43	100	.04	2	1.62	.01	.05	1	185
111+00E 104+50N	4	15	263	34	1.5	1	1	229	1.36	22	5	ND	1	30	1	3	10	24	.03	.041	7	7	.46	114	.03	2	.82	.01	.02	1	510
111+00E 104+00N	5	24	672	113	3.8	2	1	690	3.44	94	7	ND	1	42	1	2	18	100	.15	.120	11	23	1.34	100	.18	3	2.66	.01	.02	1	305
111+00E 103+50N	10	62	46	67	.9	8	7	378	6.34	16	5	ND	1	43	1	2	2	102	.12	.170	2	29	.77	82	.07	2	2.08	.01	.04	1	74
111+00E 103+00N	12	52	31	45	.7	8	9	518	8.29	19	5	ND	1	34	1	2	2	76	.09	.161	4	35	.62	85	.06	2	2.56	.01	.03	1	210
111+00E 102+50N	9	25	15	59	.5	4	3	241	5.82	18	5	ND	1	9	1	2	3	96	.03	.075	5	20	1.02	23	.02	2	1.63	.01	.02	1	185
111+00E 102+00N	13	53	32	50	.9	4	6	327	6.35	17	5	ND	1	32	1	2	5	83	.07	.161	4	30	.76	62	.04	2	2.15	.01	.04	1	220
111+00E 101+50N	23	279	40	139	.9	9	19	614	9.39	45	5	ND	1	41	1	2	6	98	.18	.208	2	33	.99	65	.06	2	4.67	.01	.04	1	580
111+00E 101+00N	1	266	42	255	1.2	12	33	1258	3.76	29	5	ND	2	204	2	2	2	88	3.43	.081	4	15	1.25	82	.14	2	3.97	.01	.11	1	45
112+00E 106+50N	1	19	20	21	.1	3	7	124	3.73	8	5	ND	1	32	1	3	2	101	.28	.035	2	18	.15	32	.06	2	.84	.01	.03	1	45
112+00E 106+00N	2	599	105	233	2.5	10	11	973	5.56	23	5	ND	1	83	2	2	2	92	1.48	.153	4	15	1.24	55	.12	5	2.75	.02	.07	1	38
112+00E 105+50N	3	23	275	46	1.6	2	1	283	2.18	45	5	ND	1	28	1	5	7	28	.07	.070	5	7	.55	202	.04	2	.79	.01	.03	1	380
112+00E 105+00N	10	42	89	79	1.7	5	5	535	7.18	22	5	ND	1	132	1	2	6	73	.07	.138	4	24	.95	243	.08	2	1.99	.08	.09	1	270
112+00E 104+50N	4	31	88	91	1.3	4	5	490	8.62	30	5	ND	1	89	1	2	4	89	.07	.130	3	20	1.26	210	.14	2	1.60	.06	.06	1	305
112+00E 104+00N	3	26	94	38	1.3	2	2	221	2.76	30	5	ND	1	51	1	3	4	33	.06	.079	3	9	.42	154	.04	2	.76	.01	.05	1	220
112+00E 103+50N	3	24	91	47	.9	2	2	243	3.42	23	5	ND	1	43	1	2	3	46	.07	.074	3	10	.58	108	.06	3	1.03	.01	.04	1	185
112+00E 103+00N	3	88	53	131	1.4	5	9	548	5.03	27	5	ND	1	107	1	2	3	74	.31	.167	5	18	1.37	134	.13	2	1.93	.02	.09	1	340
112+00E 102+50N	14	108	58	99	1.2	9	11	634	11.74	38	5	ND	1	91	1	2	4	107	.24	.266	4	35	1.24	140	.12	2	2.87	.02	.07	1	440
112+00E 102+00N	9	86	38	91	1.3	6	7	530	7.51	27	5	ND	1	56	1	2	2	113	.13	.205	3	27	1.17	93	.07	2	2.73	.01	.04	1	290
112+00E 101+50N	4	718	69	365	2.1	25	46	1687	3.23	88	5	ND	1	99	3	2	3	49	1.20	.103	4	10	.81	42	.05	3	8.50	.01	.07	1	92
112+00E 101+00N	1	310	45	208	2.0	14	28	1148	4.44	30	5	ND	2	193	2	2	2	86	3.07	.110	2	14	1.32	52	.14	2	3.80	.02	.12	1	435
112+50E 102+00N	4	226	64	146	2.3	10	19	633	7.81	67	5	ND	1	76	1	2	4	55	.77	.195	4	11	.96	56	.03	2	3.85	.02	.07	1	330
113+00E 106+00N	1	78	44	91	.4	12	13	807	4.32	22	5	ND	1	90	1	2	2	82	.55	.158	5	21	.83	114	.05	2	3.74	.01	.07	1	27
113+00E 105+50N	9	302	164	297	2.3	11	42	1028	8.69	29	5	ND	1	102	2	2	2	83	.72	.175	5	21	.99	68	.11	2	3.57	.01	.06	1	210
113+00E 105+00N	4	220	351	356	2.7	9	24	828	8.19	37	5	ND	1	104	2	2	4	108	.73	.211	4	17	.90	62	.10	4	3.85	.02	.07	1	160
113+00E 104+50N	5	68	67	76	1.1	7	6	392	4.66	18	5	ND	1	51	1	2	2	73	.23	.158	4	17	.68	80	.04	3	2.48	.01	.04	1	85
113+00E 104+00N	8	82	91	119	.8	7	9	605	7.62	29	5	ND	1	97	1	2	7	76	.54	.193	6	24	1.16	152	.09	2	2.83	.02	.07	1	370
113+00E 103+50N	2	63	195	125	1.3	6	6	711	6.27	39	5	ND	1	25	1	2	7	90	.07	.124	6	24	1.44	78	.04	2	2.47	.01	.04	1	112
113+00E 103+00N	2	13	211	66	.8	2	1	385	2.16	27	5	ND	1	15	1	2	10	25	.01	.026	17	7	.97	30	.01	2	1.09	.01	.03	1	45
113+00E 102+50N	3	85	60	84	1.5	7	9	417	7.42	27	5	ND	1	22	1	2	2	84	.17	.151	4	22	.82	68	.03	2	2.58	.01	.03	1	63
113+00E 102+00N	6	76	40	64	1.1	7	7	329	6.12	16	5	ND	1	43	1	2	2	112	.21	.188	2	25	.67	59	.03	2	2.16	.01	.04	1	89
113+50E 102+00N	1	292	69	169	1.4	11	30	1364	6.58	24	5	ND	1	147	1	2	2	104	1.81	.144	5	12	1.42	31	.13	2	3.33	.02	.07	1	54
STD C/AU-S	20	55	42	129	6.9	69	29	987	3.95	40	22	7	33	47	17	17	19	60	.48	.102	34	57	.88	175	.08	35	1.73	.06	.14	13	51

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SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
114+00E 106+00N	4	87	40	89	.5	7	14	741	6.77	25	5	ND	1	50	1	2	2	103	.21	.157	6	28	.85	110	.04	2	3.52	.01	.05	1	60
114+00E 105+50N	14	221	46	99	.4	12	26	708	9.44	30	5	ND	1	102	1	2	2	70	.70	.145	11	24	1.05	108	.05	2	3.21	.02	.08	1	360
114+00E 105+00N	2	55	20	142	.4	8	13	979	5.94	13	5	ND	1	42	1	2	2	110	.15	.107	6	22	.82	89	.03	4	3.89	.01	.07	1	10
114+00E 104+50N	6	144	68	131	.7	11	21	877	6.92	29	6	ND	1	116	1	2	2	98	1.29	.182	5	22	.99	102	.12	3	4.42	.01	.09	1	610
114+00E 104+00N	5	159	77	135	1.0	6	20	1031	8.63	30	5	ND	1	110	1	2	2	109	.82	.226	8	21	1.09	96	.11	2	3.99	.01	.07	1	77
114+00E 103+50N	9	269	66	106	1.2	6	17	459	7.68	22	5	ND	1	88	1	2	2	67	.72	.163	5	19	.80	67	.08	2	5.44	.02	.06	1	350
114+00E 103+00N	10	150	49	91	2.3	6	10	409	4.72	19	5	ND	1	53	1	2	2	80	.32	.180	8	25	.84	54	.04	2	3.43	.01	.04	1	170
114+00E 102+50N	2	360	64	262	1.9	13	46	1456	6.52	33	5	ND	1	207	2	2	3	80	2.32	.149	7	17	1.28	62	.13	2	4.49	.01	.11	1	69
105+50N 114+50E	17	216	45	115	.8	14	25	983	8.64	36	5	ND	1	71	1	2	2	73	.37	.180	5	30	.88	144	.05	2	3.56	.01	.08	6	385
105+50N 115+00E	2	195	83	132	.5	12	24	1860	5.52	46	5	ND	1	129	1	2	2	78	1.03	.142	11	21	1.02	189	.05	3	3.93	.01	.10	1	81
105+00N 114+50E	2	64	36	106	.6	9	14	776	4.63	14	5	ND	1	112	1	2	2	79	1.41	.140	6	17	.79	60	.09	3	4.27	.01	.07	1	50
105+00N 115+00E	1	31	16	49	.4	5	5	430	1.81	4	5	ND	1	61	1	2	2	60	.30	.125	4	16	.37	126	.02	2	1.98	.01	.06	1	28
104+50N 108+50E	26	14	37	4	.5	1	2	14	2.69	7	5	ND	1	11	1	3	3	12	.01	.015	2	6	.03	57	.01	3	.26	.01	.01	1	285
104+50N 109+50E	102	54	22	72	.9	10	6	383	7.45	15	5	ND	1	41	1	2	2	93	.04	.112	10	47	1.70	145	.04	4	2.30	.02	.10	1	680
104+50N 110+50E	17	40	125	62	.7	5	4	358	5.75	22	5	ND	1	32	1	2	3	85	.07	.123	6	28	.86	94	.06	5	1.64	.01	.03	1	230
104+50N 111+50E	4	19	195	35	1.3	1	2	169	2.16	30	5	ND	1	50	1	3	4	25	.03	.042	6	5	.40	311	.03	2	.68	.02	.05	1	210
104+50N 114+50E	1	65	26	109	.3	7	10	716	2.82	11	7	ND	1	207	1	2	2	61	2.42	.098	6	14	.90	124	.06	2	3.84	.01	.10	1	12
104+50N 115+00E	1	96	31	93	.2	6	10	583	2.72	13	5	ND	1	154	1	2	2	69	1.63	.089	7	16	.85	109	.05	2	3.61	.02	.07	1	11
104+00N 108+50E	60	28	38	39	1.1	7	4	109	4.29	15	5	ND	1	13	1	2	5	59	.04	.049	5	46	.80	26	.01	4	1.27	.01	.03	1	350
104+00N 109+50E	43	40	35	74	.6	10	4	361	5.14	12	5	ND	1	57	1	2	2	90	.06	.110	8	55	1.67	136	.03	2	2.22	.02	.08	1	205
104+00N 110+50E	5	5	96	17	.5	1	1	40	.58	5	5	ND	1	12	1	2	6	11	.01	.011	5	2	.24	19	.01	2	.35	.01	.01	1	147
104+00N 114+50E	1	81	34	96	.3	8	13	811	2.92	14	8	ND	1	187	1	2	2	51	2.32	.084	8	14	.86	160	.06	2	3.42	.02	.09	1	11
104+00N 115+00E	1	91	28	92	.2	5	12	798	2.51	17	5	ND	1	178	1	2	2	42	1.95	.057	7	10	.73	144	.06	3	2.97	.01	.11	1	13
103+50N 99+50E	8	215	26	72	.5	8	15	599	6.71	9	5	ND	1	108	1	2	6	129	.28	.128	9	31	.74	212	.07	2	3.58	.02	.16	1	89
103+50N 100+50E	8	86	31	38	.6	3	8	248	7.11	10	5	ND	1	105	1	2	2	88	.05	.164	11	17	.47	424	.02	2	2.24	.02	.17	1	40
103+50N 101+50E	10	112	24	54	.3	8	11	301	6.71	7	5	ND	1	59	1	2	2	118	.09	.142	8	27	.57	151	.04	2	2.73	.01	.08	1	61
103+50N 102+50E	3	980	36	4	.3	1	15	121	46.36	2	5	ND	2	3	1	2	2	9	.02	.104	2	4	.05	4	.01	2	.23	.01	.02	1	6
103+50N 103+50E	33	72	39	56	.8	6	7	286	6.81	15	5	ND	1	36	1	2	3	116	.05	.142	6	38	.78	115	.05	2	2.25	.01	.09	1	250
103+50N 104+50E	22	21	41	20	.9	2	3	43	2.74	11	5	ND	1	30	1	2	2	53	.02	.087	4	12	.30	79	.01	2	1.09	.01	.05	1	160
103+50N 108+50E	63	53	22	67	1.0	11	6	327	8.68	12	5	ND	1	28	1	2	2	96	.02	.221	12	47	1.78	109	.01	2	2.13	.03	.15	1	540
103+50N 109+50E	27	72	57	117	1.5	12	8	539	9.16	34	5	ND	1	51	1	2	4	115	.06	.159	6	70	2.15	112	.08	2	3.08	.01	.06	1	540
103+50N 110+50E	8	47	30	57	.4	7	6	322	4.77	10	5	ND	1	30	1	2	2	104	.11	.127	6	28	.69	77	.06	3	1.75	.01	.04	1	98
103+50N 111+50E	8	41	101	53	1.3	4	4	254	4.40	28	5	ND	1	29	1	8	4	72	.08	.105	3	17	.59	85	.06	4	1.20	.01	.05	1	165
103+50N 114+50E	1	168	29	109	.3	16	17	862	3.22	14	9	ND	1	213	1	2	2	83	3.54	.088	7	19	1.58	119	.09	6	5.10	.02	.13	1	14
103+00N 99+50E	10	143	21	35	.6	4	8	223	5.02	4	5	ND	1	124	1	2	7	106	.06	.125	7	19	.66	331	.02	4	2.70	.03	.22	1	53
103+00N 100+50E	8	21	12	11	.1	1	3	64	3.04	3	5	ND	1	29	1	2	4	25	.02	.063	10	5	.30	95	.01	2	1.18	.01	.08	1	39
STD C/AU-S	21	56	36	131	6.9	65	28	993	3.96	41	20	8	32	47	16	17	21	61	.48	.101	37	57	.88	176	.08	35	1.73	.06	.13	13	52

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
103+00N 101+50E	14	166	33	55	1.5	9	10	217	5.34	6	5	ND	1	43	1	2	5	98	.05	.144	7	22	.92	213	.03	3	3.30	.01	.16	1	91
103+00N 102+50E	7	2686	25	1	.6	1	13	111	49.91	22	5	ND	2	4	3	2	2	2	.02	.060	28	8	.07	6	.01	2	.54	.01	.02	1	16
103+00N 103+50E	6	34	21	56	.4	6	6	365	2.73	2	5	ND	1	78	1	2	3	76	.10	.065	3	23	.66	164	.07	2	2.03	.01	.09	1	230
103+00N 104+50E	35	27	17	17	.5	2	2	56	2.10	2	5	ND	1	17	1	2	5	54	.03	.066	6	10	.26	41	.01	2	.87	.01	.05	1	9
103+00N 108+50E	108	55	30	78	.7	11	8	414	10.40	12	5	ND	2	9	1	2	13	135	.03	.124	4	70	1.86	25	.01	2	2.67	.01	.03	1	880
103+00N 109+50E	27	85	146	105	1.9	11	7	579	5.18	31	5	ND	1	46	1	2	6	101	.15	.173	7	37	1.42	99	.07	2	2.81	.01	.06	1	250
103+00N 110+50E	13	39	18	76	.3	16	5	315	4.97	12	5	ND	1	19	1	2	3	88	.08	.089	6	67	1.43	35	.04	2	2.13	.01	.03	1	200
103+00N 111+50E	12	132	91	148	1.5	9	13	662	9.30	25	5	ND	1	91	1	2	6	123	.24	.207	2	30	1.27	160	.13	2	3.14	.02	.09	1	156
103+00N 113+50E	2	93	96	161	.6	9	13	950	5.96	19	5	ND	1	96	1	2	7	90	.78	.160	5	14	.86	217	.05	2	4.11	.01	.07	1	220
102+50N 99+50E	16	417	8	89	.4	14	20	447	6.93	2	5	ND	1	74	1	2	6	153	.08	.181	7	32	1.62	351	.07	2	4.48	.03	.50	1	230
102+50N 100+50E	19	246	10	58	.6	8	14	704	8.13	4	5	ND	1	55	1	2	5	164	.05	.334	3	28	1.17	240	.03	2	3.24	.03	.25	1	99
102+50N 101+50E	70	221	16	80	.5	6	10	200	4.56	4	5	ND	1	65	1	2	5	52	.04	.114	13	12	1.04	180	.03	2	2.97	.02	.27	1	190
102+50N 102+50E	2	1899	2	5	.9	4	3	29	.36	2	5	ND	1	7	1	2	2	5	.04	.324	3	5	.04	12	.01	2	2.18	.01	.01	1	114
102+50N 103+50E	11	1572	12	45	.7	9	4	119	2.34	2	5	ND	1	19	1	2	3	19	.24	.196	6	12	.29	29	.01	2	2.86	.01	.04	1	56
102+50N 104+50E	40	46	11	45	.8	5	4	148	2.96	2	5	ND	1	25	1	2	4	78	.03	.127	8	12	.94	44	.01	2	2.33	.01	.05	1	340
102+50N 108+50E	73	52	34	76	.6	18	6	442	8.12	22	5	ND	1	17	1	2	9	128	.03	.130	4	107	2.41	31	.03	2	2.64	.01	.03	1	390
102+50N 109+50E	17	59	33	26	2.9	1	4	139	2.41	11	5	ND	1	17	1	2	5	43	.05	.148	3	14	.29	56	.01	2	1.63	.01	.03	1	182
102+50N 110+50E	17	20	10	46	.3	5	3	159	3.55	3	5	ND	1	6	1	2	4	63	.02	.042	5	13	1.34	17	.01	2	1.68	.01	.01	1	165
102+50N 111+50E	10	124	67	162	1.5	8	14	837	11.27	30	5	ND	1	107	1	2	8	153	.34	.280	2	37	1.73	138	.18	2	3.26	.02	.08	2	300
102+50N 113+50E	2	112	65	142	1.0	9	8	652	3.97	11	5	ND	1	46	1	2	6	84	.37	.155	3	58	1.49	39	.11	2	3.32	.01	.03	1	86
102+00N 97+50E	4	207	34	69	1.8	10	14	453	5.99	6	5	ND	1	117	1	2	12	78	.21	.161	8	19	.52	316	.02	4	3.16	.02	.18	2	82
102+00N 99+50E	14	277	20	52	.8	7	15	297	5.91	2	5	ND	1	62	1	2	7	138	.06	.155	5	29	.94	271	.03	2	3.45	.02	.26	3	350
102+00N 100+50E	9	157	15	42	.4	9	9	217	4.13	3	5	ND	1	40	1	2	5	90	.04	.149	7	20	.71	217	.02	2	2.63	.02	.15	2	121
102+00N 101+50E	31	428	17	110	.4	11	20	562	7.55	2	5	ND	1	168	1	2	4	169	.21	.204	4	26	1.83	205	.08	2	5.32	.02	.30	1	230
102+00N 102+50E	26	301	23	91	.4	12	15	338	5.24	6	5	ND	1	95	1	2	4	135	.12	.119	7	26	1.44	137	.07	2	3.78	.02	.37	1	130
102+00N 103+50E	4	193	2	21	.4	5	10	44	.37	2	5	ND	1	44	1	2	2	3	1.18	.110	2	3	.04	8	.01	2	.49	.01	.04	1	25
102+00N 104+50E	85	158	32	84	1.2	9	10	621	6.41	4	5	ND	1	42	1	2	7	103	.06	.191	7	21	1.58	122	.01	2	2.67	.02	.12	1	360
102+00N 108+50E	107	28	25	48	.5	10	3	243	7.22	9	5	ND	1	15	1	2	4	89	.01	.076	7	54	1.75	33	.01	6	1.95	.01	.05	2	580
102+00N 109+50E	36	145	270	137	14.6	10	12	502	7.38	52	5	ND	1	66	1	2	5	131	.12	.170	3	34	1.00	124	.04	2	2.43	.02	.09	1	310
102+00N 110+50E	37	46	29	43	.5	4	5	289	5.40	12	5	ND	1	14	1	2	4	70	.05	.068	9	15	1.02	33	.02	2	1.79	.01	.03	1	157
102+00N 111+50E	14	76	47	127	.5	9	8	667	9.32	23	5	ND	1	53	1	2	7	170	.15	.226	2	49	2.00	93	.09	2	2.89	.01	.05	2	230
101+50N 97+50E	5	149	23	66	.5	10	13	410	5.11	4	5	ND	1	80	1	2	8	77	.12	.144	7	16	.55	215	.02	4	3.05	.01	.12	1	53
101+50N 98+50E	4	192	31	78	.3	11	24	987	5.62	2	5	ND	1	98	1	2	11	62	.47	.194	4	18	.62	402	.01	4	2.30	.01	.16	1	106
101+50N 99+50E	21	282	16	70	1.0	9	14	352	6.17	5	5	ND	1	66	1	2	4	129	.14	.191	9	29	1.56	187	.05	2	4.01	.02	.45	1	290
101+50N 100+50E	4	70	5	21	2.1	4	4	83	1.65	2	5	ND	1	19	1	2	2	22	.06	.272	5	9	.14	52	.01	3	3.46	.01	.04	2	49
101+50N 101+50E	38	252	18	117	1.0	14	15	341	8.66	2	5	ND	1	66	1	2	2	198	.08	.150	3	26	1.82	252	.14	3	4.36	.02	.71	1	151
STD C/AU-S	20	57	38	131	6.9	67	29	997	3.97	38	20	8	33	47	17	15	19	61	.48	.103	34	58	.88	176	.08	36	1.73	.06	.13	12	50

C.E.C. ENGINEERING PROJECT-P86-19 KEMESS FILE # 86-2918

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
101+50N 102+50E	45	536	34	91	1.3	17	7	401	6.78	10	5	ND	1	166	1	2	2	158	.28	.168	7	22	1.80	159	.16	3	3.75	.02	.65	1	260
101+50N 103+50E	53	272	26	80	.9	17	15	391	8.93	2	5	ND	1	108	1	2	2	170	.05	.159	9	62	1.49	222	.06	2	3.62	.02	.36	2	210
101+50N 104+50E	63	288	27	116	1.6	21	16	397	6.45	7	5	ND	1	99	1	2	2	148	.07	.134	9	74	1.87	138	.07	3	3.39	.01	.32	1	460
101+00N 97+50E	7	282	18	85	.8	17	19	472	5.65	2	5	ND	1	66	1	2	2	94	.25	.146	10	27	.93	178	.04	2	4.23	.01	.16	2	130
101+00N 98+50E	9	442	17	68	.9	8	23	448	5.31	2	5	ND	1	125	1	2	4	96	.76	.160	7	18	1.01	222	.02	2	3.12	.03	.36	1	154
101+00N 99+50E	10	137	25	44	.5	8	9	231	5.22	4	5	ND	1	21	1	2	2	80	.04	.211	8	19	.94	107	.01	2	2.58	.01	.16	2	155
101+00N 100+50E	14	188	18	45	.8	10	10	212	3.86	3	5	ND	1	44	1	2	2	82	.07	.156	5	18	.73	93	.02	2	2.15	.02	.22	1	150
101+00N 101+50E	29	416	21	78	3.3	13	21	502	7.30	3	5	ND	1	105	1	2	2	148	.17	.215	10	23	1.19	138	.09	5	3.59	.02	.38	2	640
101+00N 102+50E	6	35	28	55	.8	4	5	273	3.44	4	5	ND	1	29	1	2	2	54	.07	.112	10	17	.34	63	.02	3	2.99	.01	.05	1	92
101+00N 103+50E	235	201	43	92	3.4	8	10	652	7.95	10	7	ND	3	88	1	3	3	86	.24	.278	14	40	1.31	138	.12	3	3.22	.02	.27	1	840
101+00N 104+50E	36	60	40	58	.8	9	7	329	6.75	6	5	ND	1	41	1	2	2	79	.08	.155	7	23	.61	87	.05	4	2.09	.01	.08	1	196
101+00N 105+50E	36	89	19	34	1.1	7	6	142	2.26	2	5	ND	1	54	1	2	2	32	.24	.182	7	21	.53	117	.01	3	1.76	.01	.09	1	199
101+00N 108+50E	31	42	30	62	.7	7	4	309	4.04	14	5	2	1	19	1	2	6	91	.04	.098	5	31	1.06	39	.02	2	2.16	.01	.03	1	420
101+00N 109+50E	23	65	55	92	.9	5	7	534	9.79	26	5	ND	1	61	1	2	3	142	.12	.242	6	40	1.37	140	.06	2	2.47	.02	.06	2	350
101+00N 110+50E	30	62	48	84	.8	6	8	592	10.91	26	5	ND	1	55	1	3	5	126	.06	.206	7	48	1.33	130	.05	2	2.42	.02	.04	2	580
101+00N 111+50E	4	761	78	493	2.2	20	47	1815	3.89	75	5	ND	1	99	3	2	2	51	1.09	.104	8	13	.84	56	.06	4	6.64	.01	.07	1	123
100+50N 97+50E	4	139	22	57	.9	9	12	403	4.55	5	5	ND	1	65	1	2	6	81	.29	.162	6	17	.51	106	.03	4	3.09	.01	.06	2	82
100+50N 98+50E	12	135	19	27	.6	4	7	199	6.07	4	5	ND	1	15	1	2	3	63	.02	.399	10	16	.66	90	.01	2	2.72	.02	.10	1	127
100+50N 99+50E	15	303	23	58	.8	14	17	425	6.97	5	5	ND	1	70	1	2	2	130	.15	.180	6	28	1.13	149	.05	2	3.13	.02	.34	1	390
100+50N 100+50E	32	467	24	96	1.3	17	21	433	7.82	8	5	ND	1	93	1	3	2	181	.14	.155	6	26	2.03	126	.14	5	4.06	.04	.80	2	410
100+50N 101+50E	20	163	20	84	1.0	13	11	320	4.38	2	5	ND	1	36	1	2	2	80	.09	.135	7	20	1.04	130	.03	2	3.09	.01	.19	1	205
100+50N 102+50E	10	150	15	39	2.1	11	9	183	2.81	3	5	ND	1	28	1	2	2	33	.07	.190	7	16	.32	78	.01	3	2.59	.01	.05	2	73
100+50N 103+50E	64	110	35	58	.9	11	8	267	6.23	11	5	ND	1	37	1	2	2	94	.06	.143	8	42	.73	144	.04	2	2.81	.01	.11	2	320
100+50N 104+50E	31	29	30	26	.5	4	3	91	3.24	6	5	ND	1	27	1	2	5	72	.04	.082	7	17	.34	44	.02	2	1.69	.01	.03	2	210
100+50N 108+50E	42	45	23	78	.9	11	5	497	7.29	7	5	ND	1	11	1	4	3	153	.03	.091	5	54	1.96	17	.01	2	2.45	.01	.02	1	680
99+50N 97+50E	5	72	14	40	.5	6	9	245	5.00	8	5	ND	1	36	1	2	3	106	.10	.158	6	19	.47	96	.02	3	2.51	.01	.05	2	87
99+50N 100+50E	8	88	30	77	.3	13	11	459	5.10	12	5	ND	1	92	1	2	3	74	.14	.177	7	20	.79	181	.03	4	2.78	.01	.08	1	91
99+50N 101+50E	15	84	24	82	.7	9	6	324	5.39	9	5	ND	1	53	1	2	2	63	.06	.147	7	20	1.37	135	.02	4	2.54	.03	.09	1	250
99+50N 103+50E	7	449	39	172	1.6	13	25	347	3.57	16	5	ND	1	31	1	2	5	35	.28	.158	5	18	.80	42	.01	2	3.46	.01	.04	1	190
99+50N 104+50E	7	611	31	61	5.1	6	2	212	2.17	6	5	ND	1	28	1	2	4	21	.23	.162	6	18	.33	47	.01	2	3.18	.01	.04	1	117
STD C/AU-S	20	58	38	129	6.8	67	28	977	3.95	40	20	7	32	47	17	15	20	60	.48	.102	36	57	.88	174	.08	38	1.73	.06	.13	15	52

APPENDIX II

Acme Analytical Laboratories Ltd.

Certificate of Analysis - Rock Samples

ACME ANALYTICAL LABORATORIES LTD.
852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: SEPT 13 1986

DATE REPORT MAILED: Sept 20/86

GEOCHEMICAL ICP ANALYSIS

.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.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CORE AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: D. Toye. DEAN TOYE. CERTIFIED B.C. ASSAYER.

C.E.C.ENGINEERING PROJECT-KEMESS P86-19 FILE#86-2634 PAGE 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
86-19-1	125	2421	6	303	.9	4	450
86-19-2	48	1506	7	124	.5	4	260
86-19-3	59	1905	9	178	.5	3	320
86-19-4	48	2491	10	159	.8	2	440
86-19-5	34	2862	10	144	1.0	3	570
86-19-6	32	2319	2	119	.9	3	400
86-19-7	23	937	11	186	.6	2	255
86-19-8	19	1281	4	193	1.0	2	230
86-19-9	31	1796	5	174	.9	2	345
86-19-10	23	1476	8	160	.9	2	355
86-19-11	29	2291	13	175	1.4	5	465
86-19-12	53	744	9	130	1.4	5	480
86-19-13	18	1847	4	105	.9	6	345
86-19-14	11	1433	15	78	.3	3	195
86-19-15	11	2212	3	84	.4	2	375
86-19-16	6	2214	6	100	.7	2	345
86-19-17	11	1890	12	79	.7	5	280
86-19-18	22	1920	9	89	.8	7	320
86-19-19	53	1301	4	97	.5	2	235
86-19-20	9	1596	10	95	.3	2	245
86-19-21	11	2553	7	107	.5	2	350
86-19-22	12	3083	4	110	.9	2	485
86-19-23	19	2257	2	121	.7	2	305
86-19-24	24	3258	10	124	1.0	2	445
86-19-25	21	435	9	97	1.2	4	255
86-19-26	25	361	9	109	.8	2	195
86-19-27	32	583	12	90	.8	4	230
86-19-28	41	1330	8	99	.9	4	295
86-19-29	21	1722	2	88	.8	2	210
86-19-30	61	1713	8	95	1.0	2	315
86-19-31	74	1260	2	117	1.1	2	355
86-19-32	107	1468	12	76	1.0	3	315
86-19-33	41	1200	13	77	.6	3	235
86-19-34	71	1225	2	91	.8	2	295
86-19-35	103	1943	9	79	1.1	3	405
86-19-36	794	1494	4	59	1.1	2	335
STD C/AU-R	20	56	39	132	6.8	38	490

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
86-19-37	113	1675	5	53	1.0	4	340
86-19-38	280	1080	10	50	.6	2	230
86-19-39	100	1826	7	46	1.1	8	330
86-19-40	275	2255	9	67	1.5	2	530
86-19-41	185	1437	16	60	.9	3	250
86-19-42	56	1072	14	61	.6	3	115
86-19-43	362	1436	6	54	.8	2	142
86-19-44	50	1014	5	36	.6	5	92
86-19-45	72	1393	9	40	.6	3	210
86-19-46	163	1772	13	52	.9	2	230
86-19-47	23	1099	11	40	.6	4	220
86-19-48	18	854	12	72	.6	3	49
86-19-49	147	789	8	32	.5	3	87
86-19-50	17	359	6	16	.2	3	47
86-19-51	13	837	9	58	.6	8	42
86-19-52	20	678	18	64	.6	6	40
86-19-53	10	774	8	77	.6	7	32
86-19-54	27	711	19	69	.6	6	37
86-19-55	1	157	15	62	.2	5	20
86-19-56	14	559	10	113	.6	8	50
86-19-57	10	193	13	39	.2	5	47
86-19-58	26	161	19	49	.2	5	18
86-19-59	6	370	23	78	.5	8	42
86-19-60	15	351	16	46	.3	13	44
86-19-61	7	123	28	41	.1	18	19
86-19-62	4	328	19	96	.4	17	31
86-19-63	5	534	19	137	.7	21	83
86-19-64	2	367	15	179	.7	38	34
86-19-65	2	475	23	144	.9	12	66
86-19-66	4	470	16	122	.7	17	35
STD C/AU-R	20	59	42	129	6.9	39	500

ACME ANALYTICAL LABORATORIES LTD. 852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.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.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-3 CORES P4-ROCKS AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: SEPT 19 1986 DATE REPORT MAILED: Sept 25/86 ASSAYER. D. Toye. .DEAN TOYE. CERTIFIED B.C. ASSAYER.

C.E.C. ENGINEERING PROJECT-KEMESS P86-19 FILE # 86-2756

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
86-19-67	54	210	16	57	.3	13	37
86-19-68	3	436	3	76	.5	16	40
86-19-69	7	383	9	66	.5	18	39
86-19-70	2	514	6	57	.8	11	250
86-19-71	1	457	2	91	.7	18	52
86-19-72	3	561	10	69	.9	13	61
86-19-73	3	537	15	85	1.0	8	62
86-19-74	4	571	17	94	.8	6	66
86-19-75	36	374	16	77	.7	8	36
86-19-76	14	568	14	73	.9	7	67
86-19-77	6	719	6	58	.9	9	52
86-19-78	8	604	13	47	.5	9	63
86-19-79	22	666	13	42	.6	8	49
86-19-80	11	571	9	45	.5	6	60
86-19-81	5	812	12	73	.7	9	81
86-19-82	7	518	7	64	.7	12	49
86-19-83	6	392	15	34	.3	9	57
86-19-84	4	208	10	25	.4	6	30
86-19-85	4	315	8	24	.3	7	35
86-19-86	2	402	2	36	.3	10	34
86-19-87	4	356	7	34	.4	6	30
86-19-88	5	424	14	61	.4	5	31
86-19-89	20	316	11	42	.4	2	77
86-19-90	42	723	4	47	.4	3	69
86-19-91	66	1230	5	90	.7	6	112
86-19-92	6	286	5	64	.6	6	49
86-19-93	3	274	10	49	.5	4	38
86-19-94	19	465	9	109	1.3	10	98
86-19-95	2	134	2	74	.3	7	6
86-19-96	16	548	4	78	.9	8	190
86-19-97	7	430	14	95	1.0	13	93
86-19-98	11	253	7	74	.5	8	48
86-19-99	9	216	5	61	.4	4	47
86-19-100	20	1636	4	80	1.3	9	180
86-19-101	36	485	2	84	.7	7	68
86-19-102	91	1167	14	131	1.3	8	610
STD C/AU-R	21	58	35	134	7.1	41	485

C.E.C. ENGINEERING PROJECT-KEMESS P86-19 FILE # 86-2756

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
86-19-103	212	2500	15	116	1.1	2	210
86-19-104	211	2775	28	291	1.3	2	295
86-19-105	152	1457	20	367	1.2	3	245
86-19-106	48	1435	20	164	1.0	3	320
86-19-107	49	1768	16	132	.9	5	255
86-19-108	63	2510	36	267	1.8	73	445
86-19-109	68	1856	13	110	.9	11	230
86-19-110	54	1479	8	95	.5	2	295
86-19-111	55	1501	19	94	.6	4	215
86-19-112	45	1495	26	75	.9	5	225
86-19-113	38	1684	12	108	.7	6	245
86-19-114	113	622	13	117	1.7	10	490
86-19-115	5	1416	11	148	.1	12	165
86-19-116	120	2596	15	93	1.1	4	550
86-19-117	101	1055	11	88	.5	6	195
86-19-118	15	576	16	104	.3	3	110
86-19-119	34	1077	13	82	.6	5	250
86-19-120	20	1019	16	86	.6	7	225
86-19-121	22	1033	14	85	1.1	7	132
86-19-122	39	1597	14	123	1.0	15	290
86-19-123	111	1411	7	93	.5	2	360
86-19-124	34	1577	10	99	.9	7	410
86-19-125	16	237	21	167	.6	12	280
86-19-126	25	3117	23	146	.8	5	390
86-19-127	20	2693	20	153	.5	2	490
86-19-128	32	4253	14	225	1.5	3	980
86-19-129	12	1445	4	195	.8	8	450
86-19-130	75	3771	6	204	2.6	5	950
86-19-131	73	2394	14	77	1.3	3	460
86-19-132	20	2112	12	91	1.4	5	405
86-19-133	17	1157	19	117	.4	2	210
86-19-134	43	1189	3	64	.2	9	165
86-19-135	19	876	16	114	.3	3	158
86-19-136	75	942	15	65	.4	5	146
86-19-137	19	469	12	44	.1	4	72
86-19-138	18	458	3	62	.2	7	70
STD C/AU-R	21	60	38	137	6.9	39	490

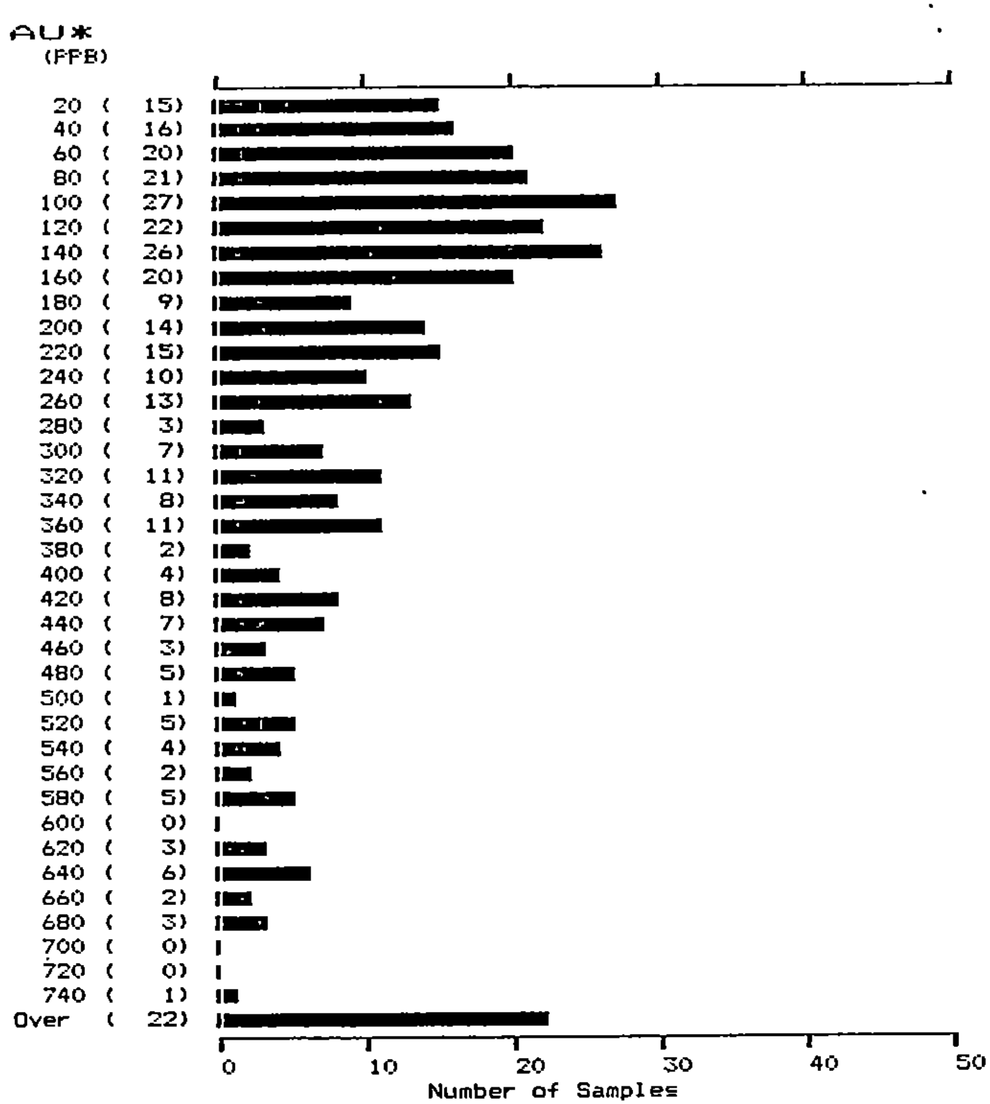
C.E.C. ENGINEERING PROJECT-KEMESS P86-19 FILE # 86-2756

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
86-19-139	2	47	2	54	.1	7	8
86-19-140	20	686	11	86	.5	7	93
86-19-141	37	1452	5	104	.9	5	260
86-19-142	174	2838	16	166	1.9	8	330
86-19-143	5	488	16	114	.6	4	85
86-19-144	9	1450	17	152	1.1	2	150
86-19-145	26	1644	2	84	1.0	9	146
86-19-146	56	2309	11	93	1.3	6	180
86-19-147	148	1762	14	119	1.1	5	480
STD C/AU-R	21	59	43	137	7.1	43	485

C.E.C. ENGINEERING PROJECT - P86-19 FILE # 86-2756
KEMESS

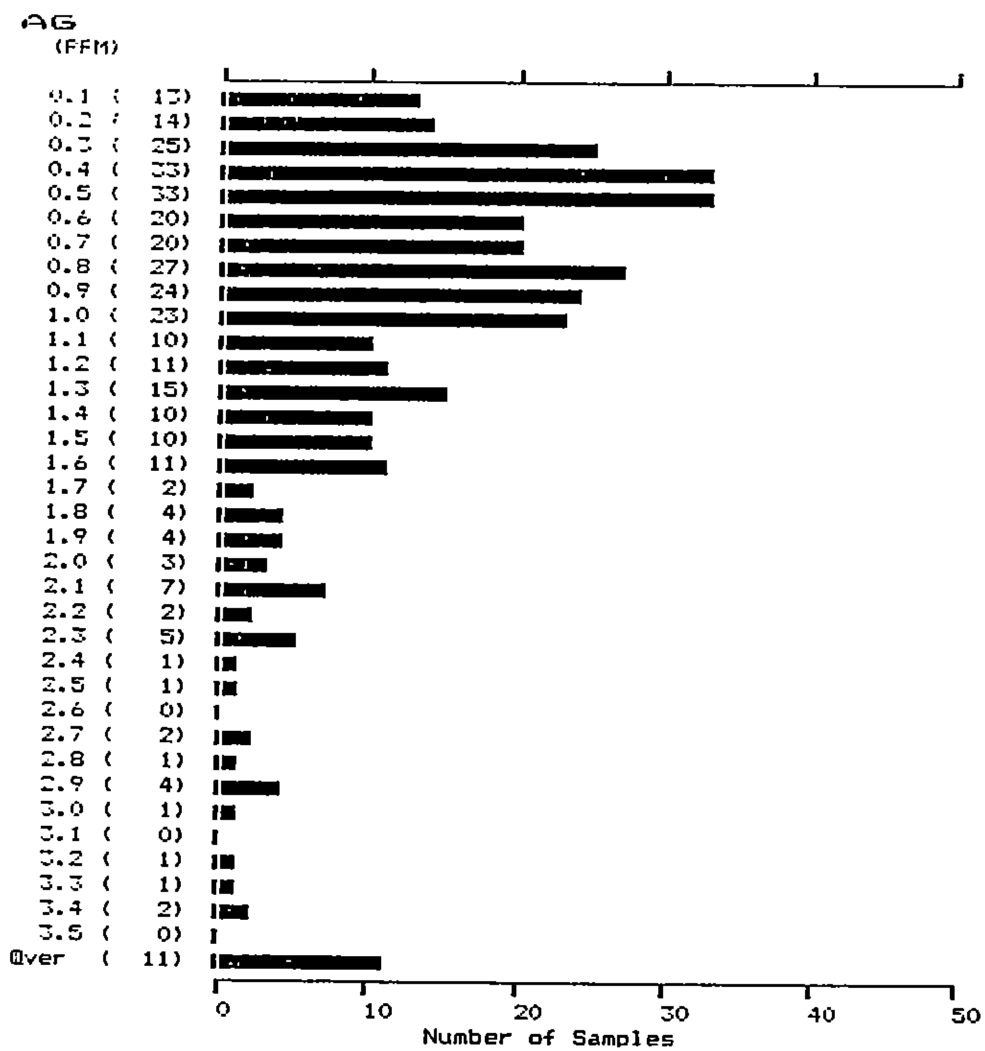
SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
86-19-148	11	2024	39	65	.4	1	8	113	39.99	10	6	ND	3	4	1	7	2	16	.03	.041	17	8	.13	8	.01	6	.56	.01	.04	1	74
86-19-149	7	2488	28	1	.6	2	7	109	46.08	10	13	ND	4	2	1	12	2	1	.03	.034	2	6	.06	3	.01	14	.34	.01	.03	1	1
86-19-150	4	108	6	8	.2	3	4	30	2.80	11	5	ND	2	10	1	2	2	4	.17	.115	9	2	.02	19	.01	6	.44	.01	.17	1	1
86-19-151	29	150	11	4	.4	2	8	29	6.28	8	5	ND	1	11	1	2	2	5	.03	.017	6	3	.03	92	.01	3	.25	.01	.02	1	26
86-19-152	42	12	7	3	.3	2	7	18	4.27	4	5	ND	1	7	1	2	2	4	.01	.025	6	4	.01	21	.01	2	.34	.01	.04	1	28
86-19-153	4	39	29	3	.3	2	5	26	5.87	2	5	ND	2	22	1	2	2	4	.01	.025	8	1	.03	28	.01	2	.44	.01	.06	1	51
86-19-154	1	18	167	7	.7	1	2	13	1.47	14	5	ND	2	24	1	2	2	4	.01	.030	3	1	.02	41	.01	2	.37	.01	.07	1	13
86-19-155	1	179	51	216	1.4	15	16	986	5.89	25	8	ND	1	95	1	2	12	132	.81	.164	3	20	2.51	26	.01	2	3.72	.33	.04	1	59
86-19-156	2	13	23	155	.7	4	4	435	4.81	31	5	ND	1	34	1	2	3	55	.06	.165	8	8	2.24	72	.01	2	1.93	.04	.10	1	46
86-19-157	1	79	14	119	.6	4	7	353	6.97	36	5	ND	1	32	1	2	5	62	.07	.118	7	7	1.78	41	.01	2	1.56	.05	.11	1	68
86-19-158	4	80	154	103	.9	1	6	1144	7.55	47	5	ND	2	30	1	3	2	131	.11	.154	8	40	2.80	38	.32	3	1.77	.04	.11	1	9
86-19-159	1	90	31	159	.5	13	15	582	8.28	13	5	ND	1	172	1	2	4	135	1.02	.136	4	40	2.80	35	.12	2	3.36	.21	.08	1	55
86-19-160	1	6	193	3	.7	1	1	17	2.05	23	5	ND	2	7	1	2	3	6	.01	.011	3	1	.02	88	.01	2	.41	.01	.04	1	12
86-19-161	14	13	7	3	.4	1	2	16	1.82	4	5	ND	1	7	1	2	2	5	.01	.006	3	2	.02	101	.01	3	.43	.01	.07	1	36
86-19-162	15	22	15	219	.9	20	5	201	5.98	8	5	ND	2	4	1	4	2	125	.01	.016	7	45	3.44	91	.01	2	3.31	.01	.07	1	160
86-19-163	9	31	11	95	.7	14	4	488	4.71	5	5	ND	2	7	1	4	2	83	.01	.017	8	33	3.02	36	.01	2	3.01	.02	.09	1	134
86-19-164	9	26	7	84	.4	10	3	372	3.96	2	5	ND	2	6	1	5	2	89	.01	.008	10	20	3.07	14	.01	2	2.94	.02	.09	1	154
86-19-165	2	181	19	123	1.0	8	11	696	8.87	5	8	ND	1	420	1	2	4	202	.54	.061	5	57	2.84	40	.25	2	3.39	.04	.15	1	200
86-19-166	49	101	26	91	1.0	6	6	262	5.56	10	5	ND	1	130	1	2	2	143	1.67	.075	4	105	1.91	61	.24	2	3.99	.01	.07	1	127
86-19-167	1	89	18	116	1.0	7	10	406	6.49	17	5	ND	1	131	1	2	4	87	.51	.170	6	19	1.61	56	.08	2	1.88	.12	.11	1	53
86-19-168	1	201	29	62	.9	33	29	345	7.21	22	5	ND	2	364	1	2	7	45	2.61	.095	2	50	.71	21	.13	2	3.99	.28	.05	1	87
86-19-169	29	66	24	98	.8	24	5	477	8.49	17	5	ND	2	22	1	2	2	147	.49	.142	6	156	3.27	10	.15	2	3.11	.02	.08	1	93
86-19-170	6	17	19	62	.2	2	5	389	4.55	3	5	ND	3	59	1	2	2	77	.80	.096	10	5	.72	34	.29	3	1.68	.05	.07	1	1
86-19-171	1	153	109	87	2.6	19	17	598	6.21	37	5	ND	1	32	1	2	15	98	.68	.112	5	62	.94	18	.27	3	.93	.10	.05	1	390
86-19-172	1	117	29	88	.9	18	18	777	5.15	32	5	ND	1	68	1	2	2	103	1.05	.171	3	30	1.85	28	.20	2	1.90	.14	.07	1	240
86-19-173	2	214	19	71	.5	23	23	508	4.69	30	5	ND	1	69	1	2	2	71	.91	.153	4	34	1.50	26	.26	2	1.42	.08	.08	1	15
86-19-174	4	7	65	22	.4	8	11	143	2.76	9	5	ND	2	29	1	2	2	13	.23	.045	6	5	.18	19	.03	5	.70	.02	.10	1	3
86-19-175	1	116	30	71	.7	8	10	537	4.74	6	5	ND	3	191	1	2	3	101	3.45	.073	5	30	1.07	28	.22	3	5.62	.01	.15	1	17
86-19-176	1	97	10	34	.8	2	4	316	3.52	4	5	ND	2	84	1	2	2	95	1.25	.074	8	5	.43	20	.20	2	2.38	.03	.09	1	71
86-19-177	13	83	14	54	.4	15	14	614	6.40	15	5	ND	2	151	1	2	2	88	.54	.131	10	39	2.01	50	.10	2	2.43	.03	.24	1	70
86-19-178	1	96	17	35	.7	1	5	312	3.48	3	5	ND	3	83	1	2	3	93	1.25	.076	9	4	.42	21	.20	3	2.35	.03	.08	1	38
86-19-179	1	3	7	1	.1	3	9	16	2.33	2	5	ND	2	44	1	2	2	5	.02	.015	7	2	.01	23	.01	2	.48	.01	.05	1	2
86-19-180	1	781	23	69	2.9	13	11	986	11.09	5	10	ND	2	50	1	2	14	98	.30	.079	5	37	1.30	39	.24	8	2.06	.02	.36	4	160
STD C/AU-R	21	59	37	134	6.9	67	29	1003	3.96	40	19	7	33	48	18	15	23	62	.48	.104	36	59	.88	178	.08	35	1.73	.06	.13	13	490

C.E.C. ENGINEERING



351 Samples   Maximum: 2110   Mean: 277
Minimum: 6   Standard Deviation: 299

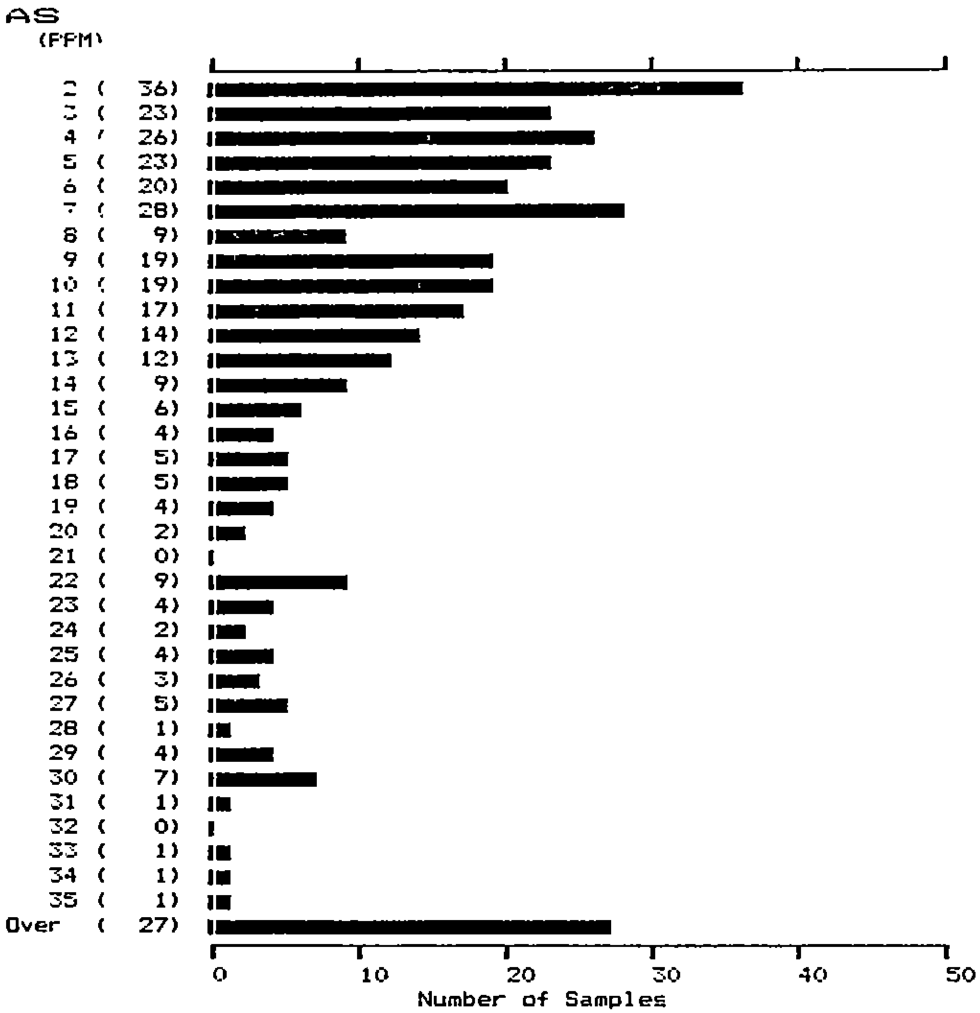
C.E.C. ENGINEERING



351 Samples

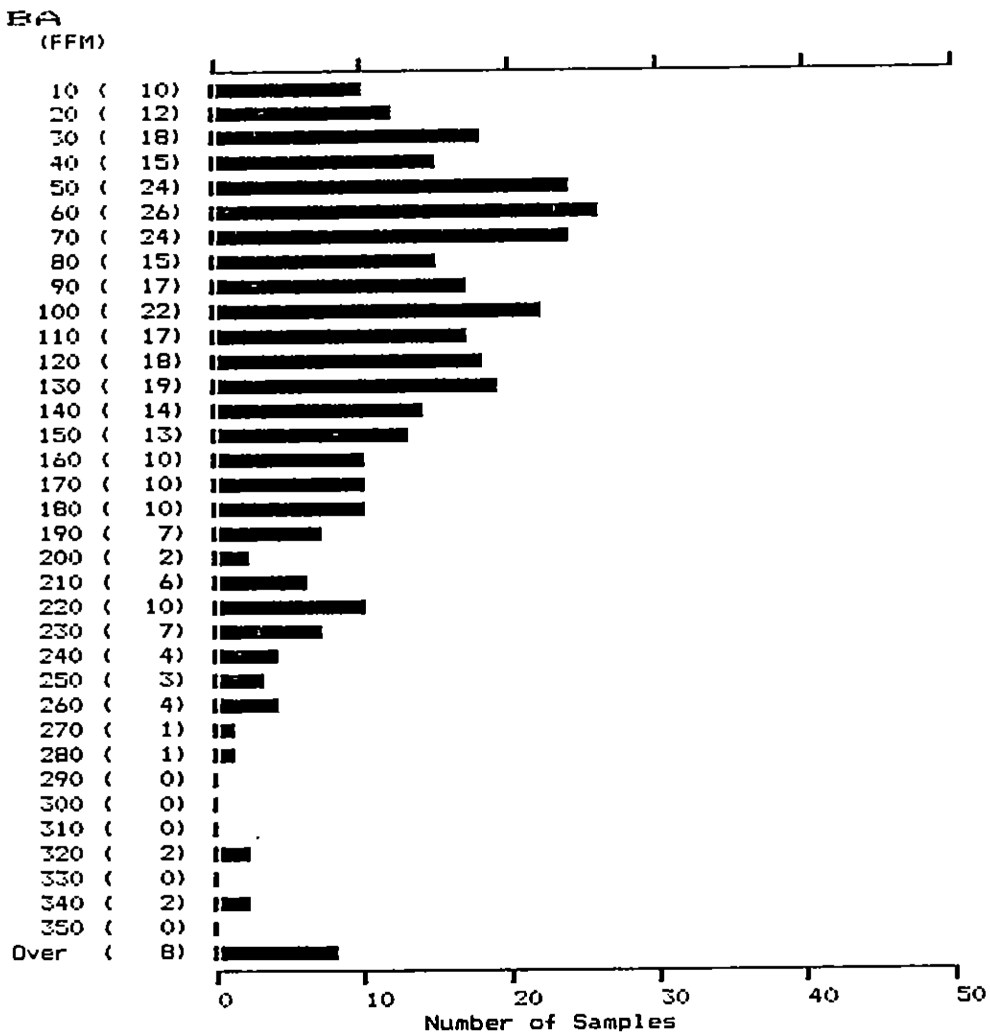
Maximum:	20.2	Mean:	1.2
Minimum:	0.1	Standard Deviation:	1.9

C.E.C. ENGINEERING



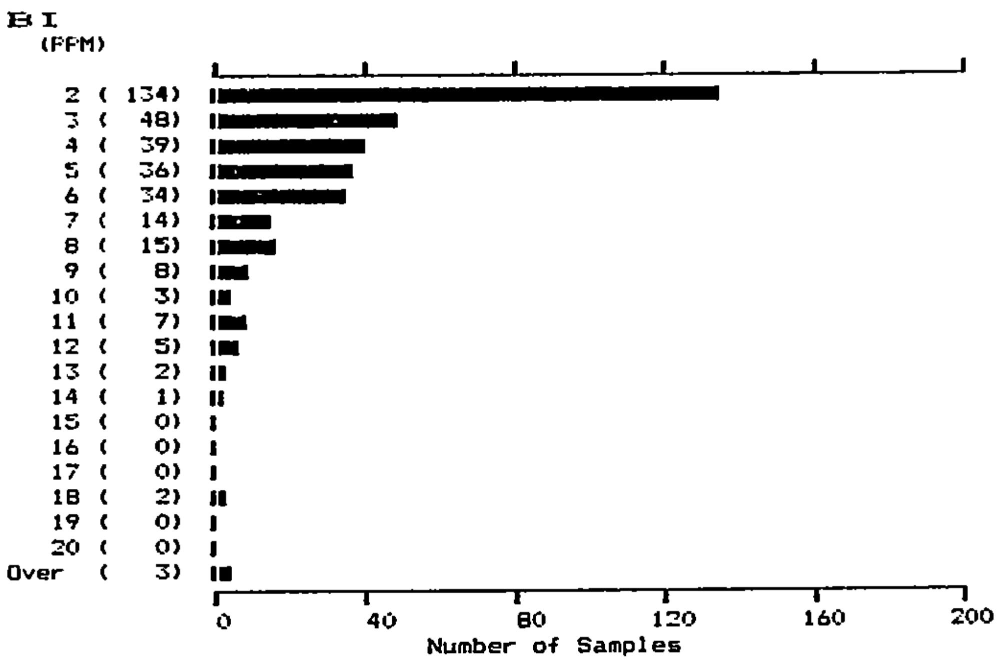
351 Samples Maximum: 228 Mean: 14
Minimum: 2 Standard Deviation: 18

C.E.C. ENGINEERING



351 Samples   Maximum: 696   Mean: 114
Minimum: 4   Standard Deviation: 86

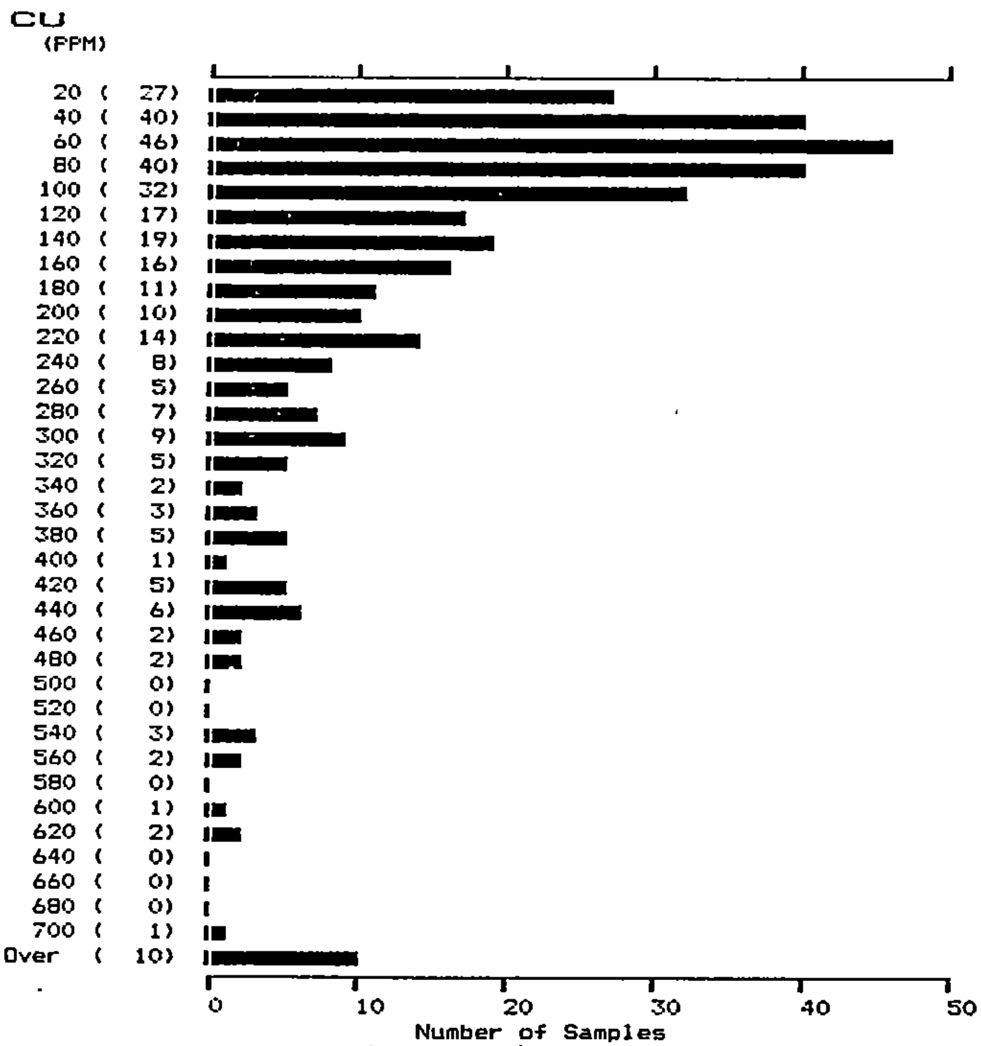
C.E.C. ENGINEERING



351 Samples

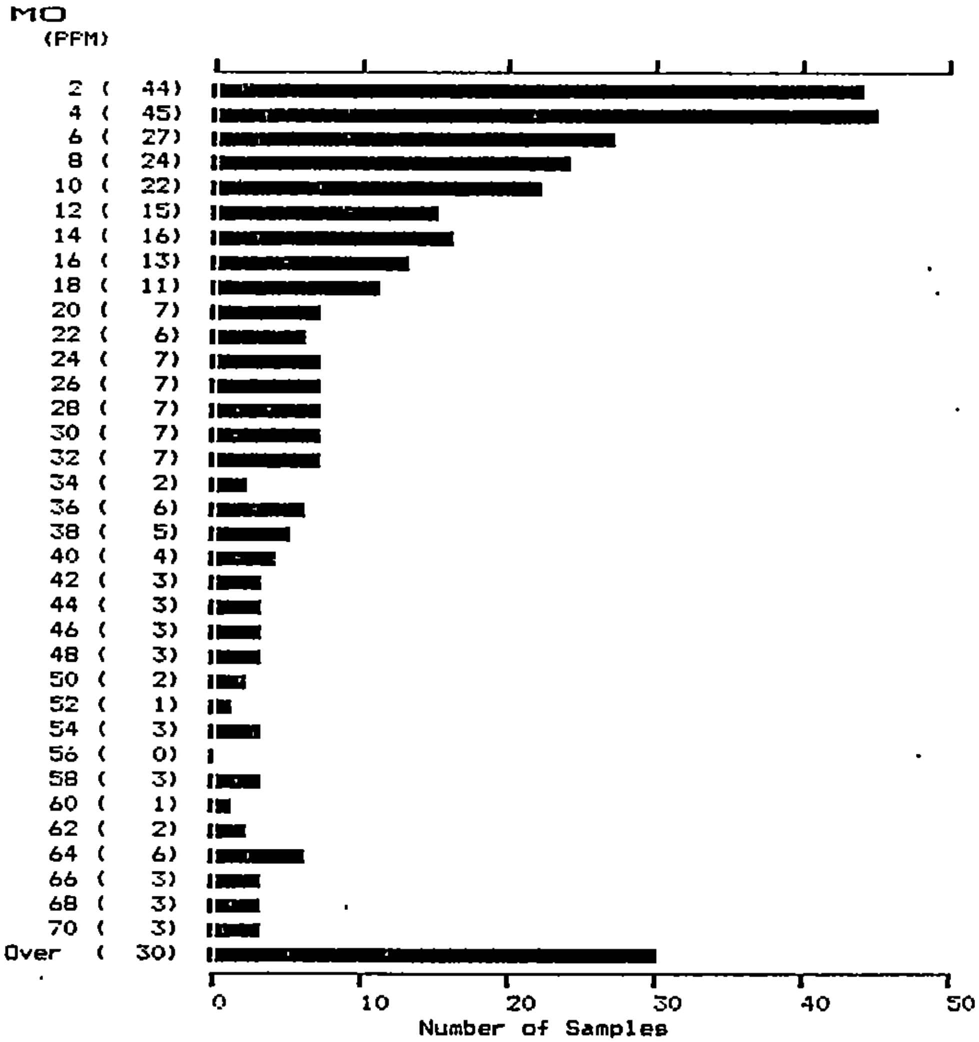
Maximum:	146	Mean:	5
Minimum:	2	Standard Deviation:	8

C.E.C. ENGINEERING



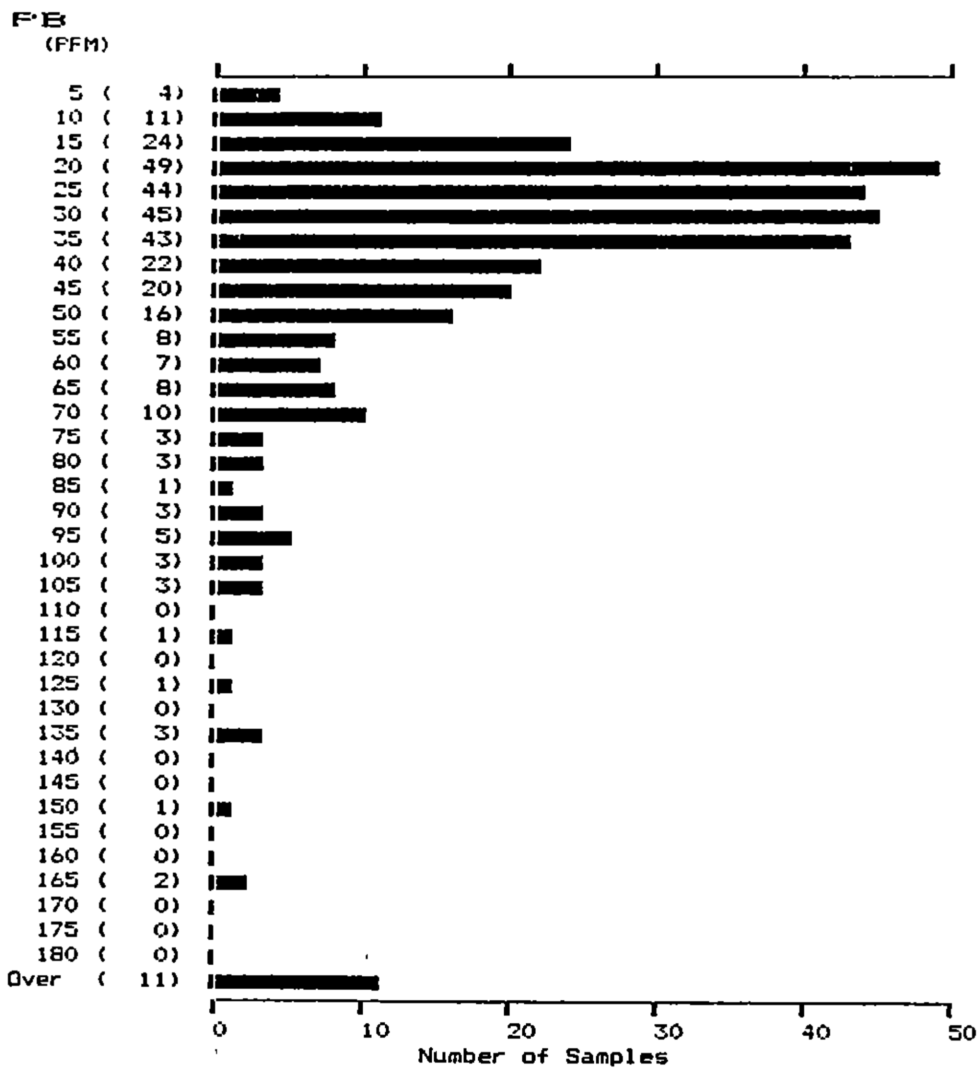
351 Samples	Maximum:	2686	Mean:	178
	Minimum:	2	Standard Deviation:	276

C.E.C. ENGINEERING



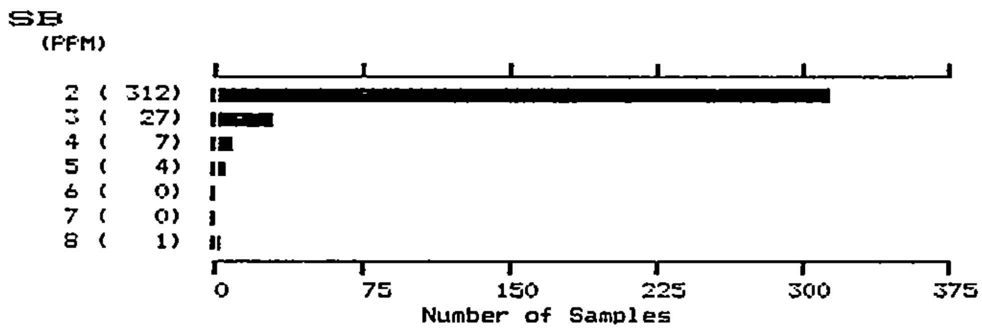
351 Samples Maximum: 235 Mean: 25
Minimum: 1 Standard Deviation: 34

C.E.C. ENGINEERING



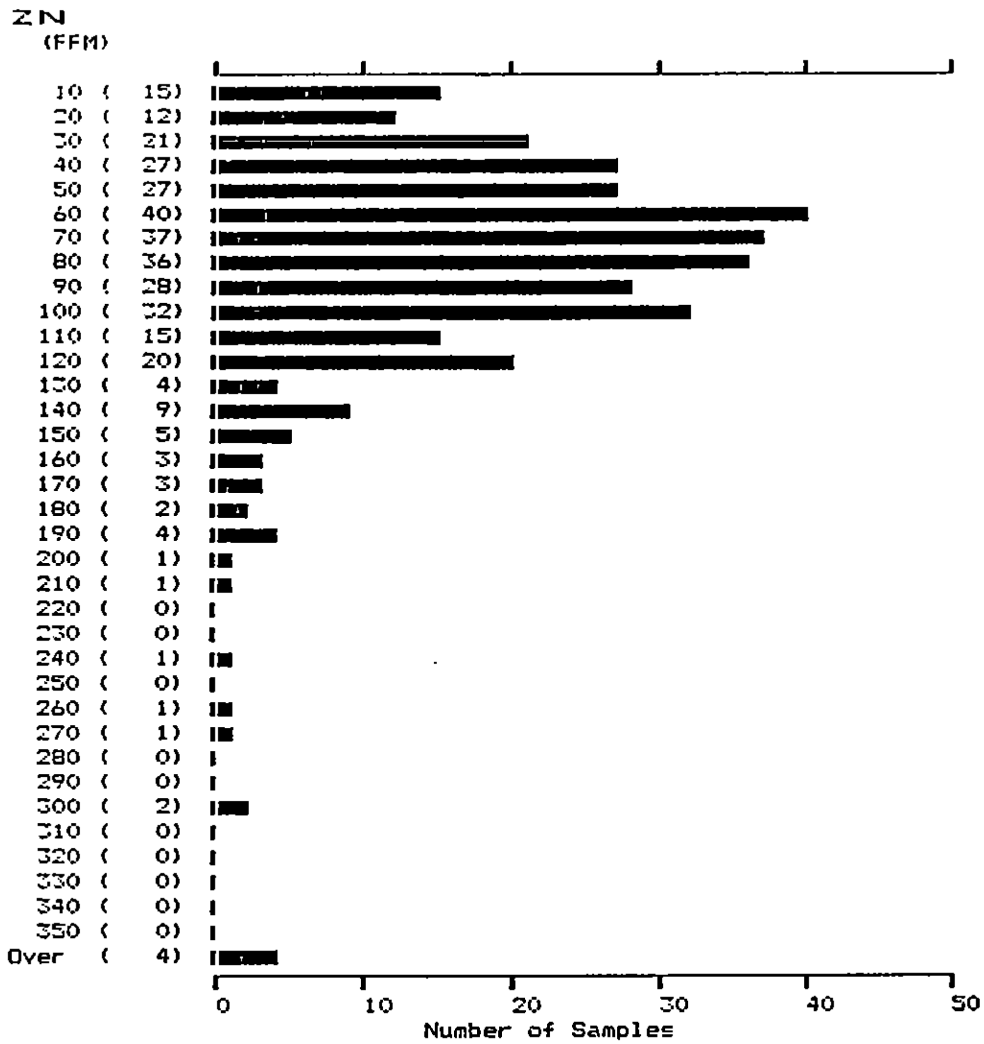
351 Samples	Maximum:	672	Mean:	44
	Minimum:	2	Standard Deviation:	56

C.E.C. ENGINEERING



351 Samples	Maximum: 8		Mean:	2
	Minimum: 2		Standard Deviation:	1

C.E.C. ENGINEERING

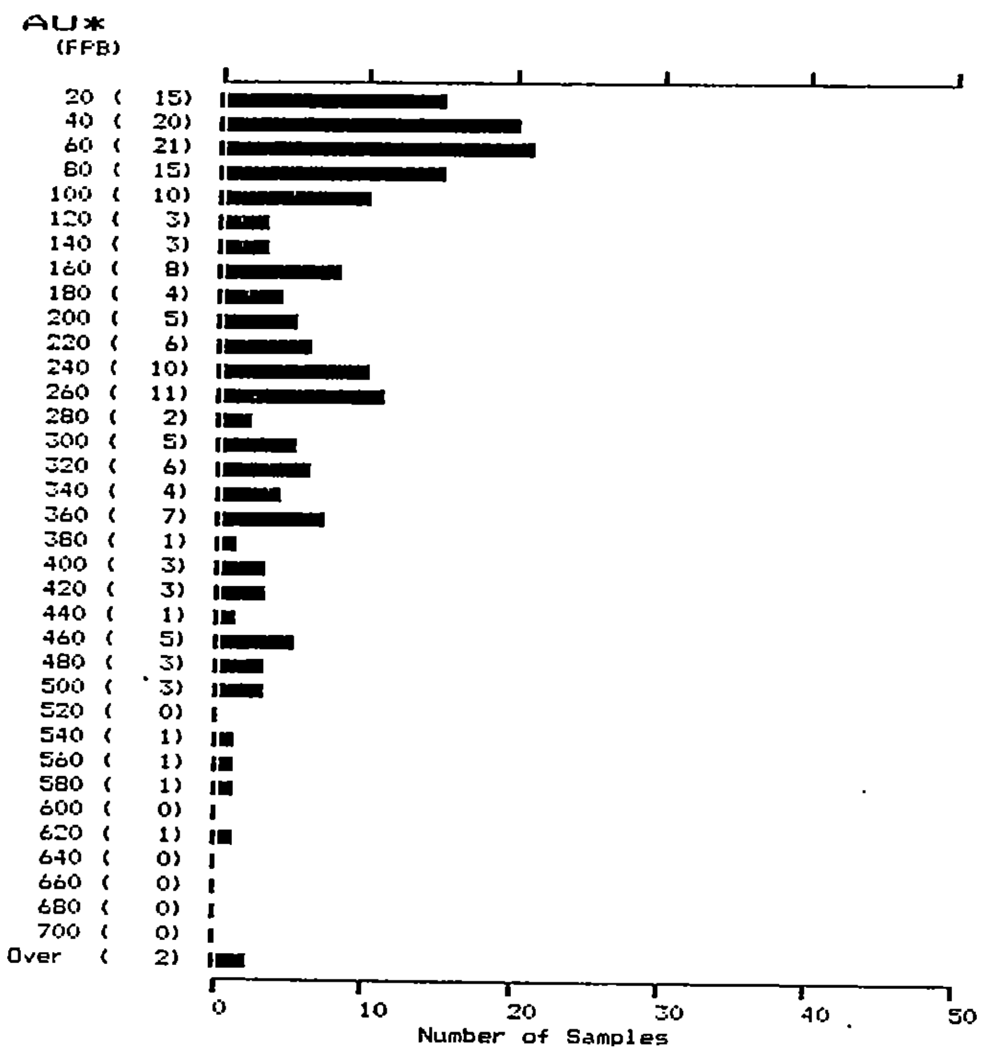


351 Samples	Maximum:	493		Mean:	78
	Minimum:	1		Standard Deviation:	57

APPENDIX IV

Geostatistics for the 1986 Lithogeochemical Survey

C.E.C. ENGINEERING

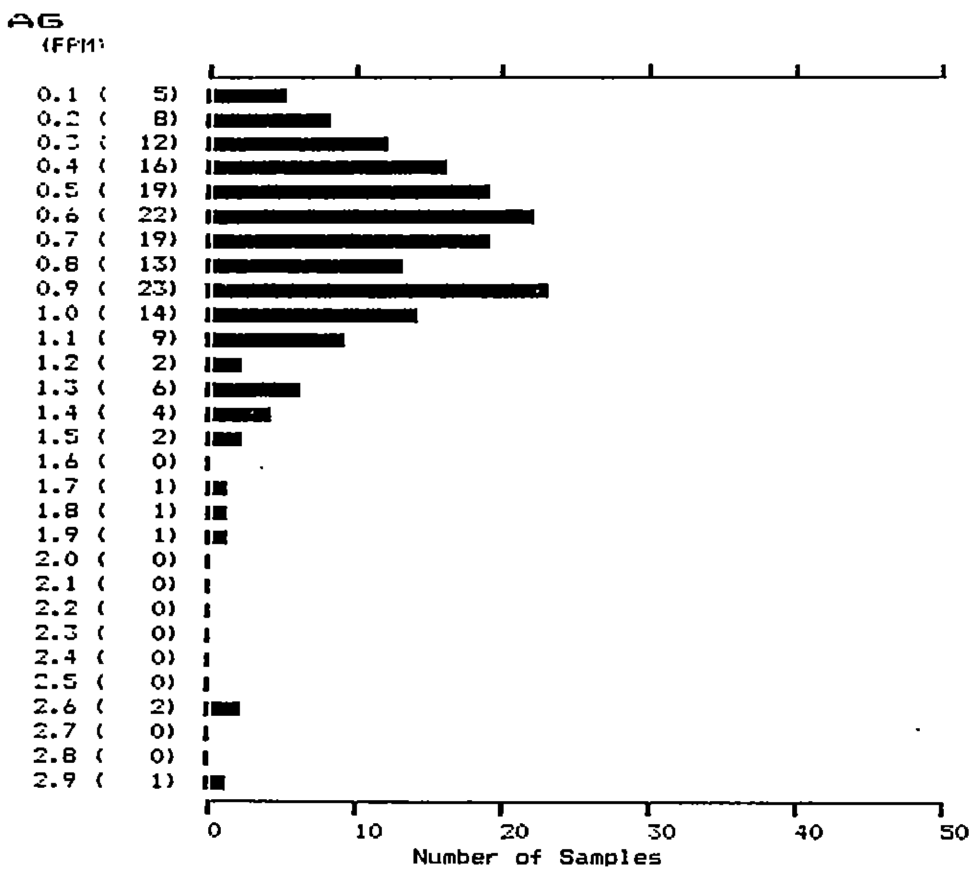


180 Samples

Maximum: 980
Minimum: 1

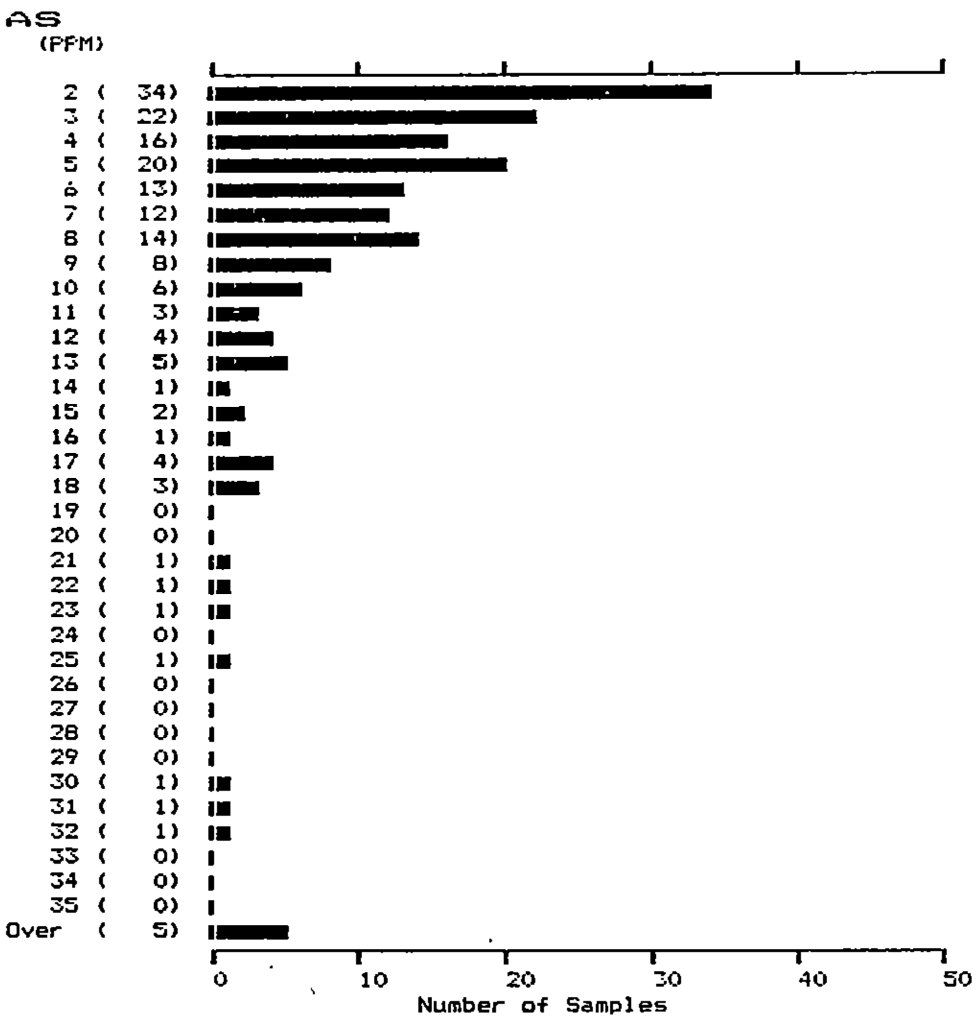
Mean: 189
Standard Deviation: 170

C.E.C. ENGINEERING



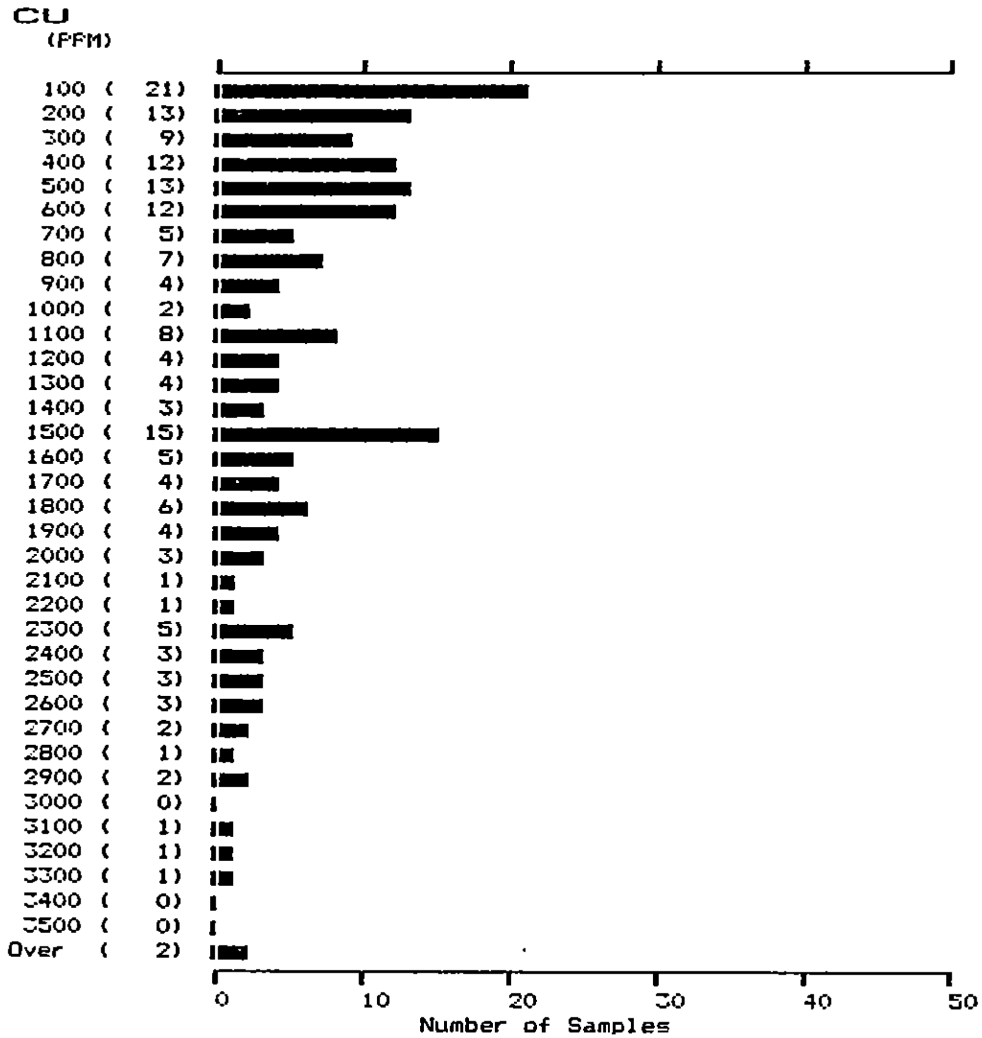
180 Samples	Maximum:	2.9	Mean:	0.8
	Minimum:	0.1	Standard Deviation:	0.4

C.E.C. ENGINEERING



180 Samples Maximum: 73 Mean: 8
Minimum: 2 Standard Deviation: 9

C.E.C. ENGINEERING

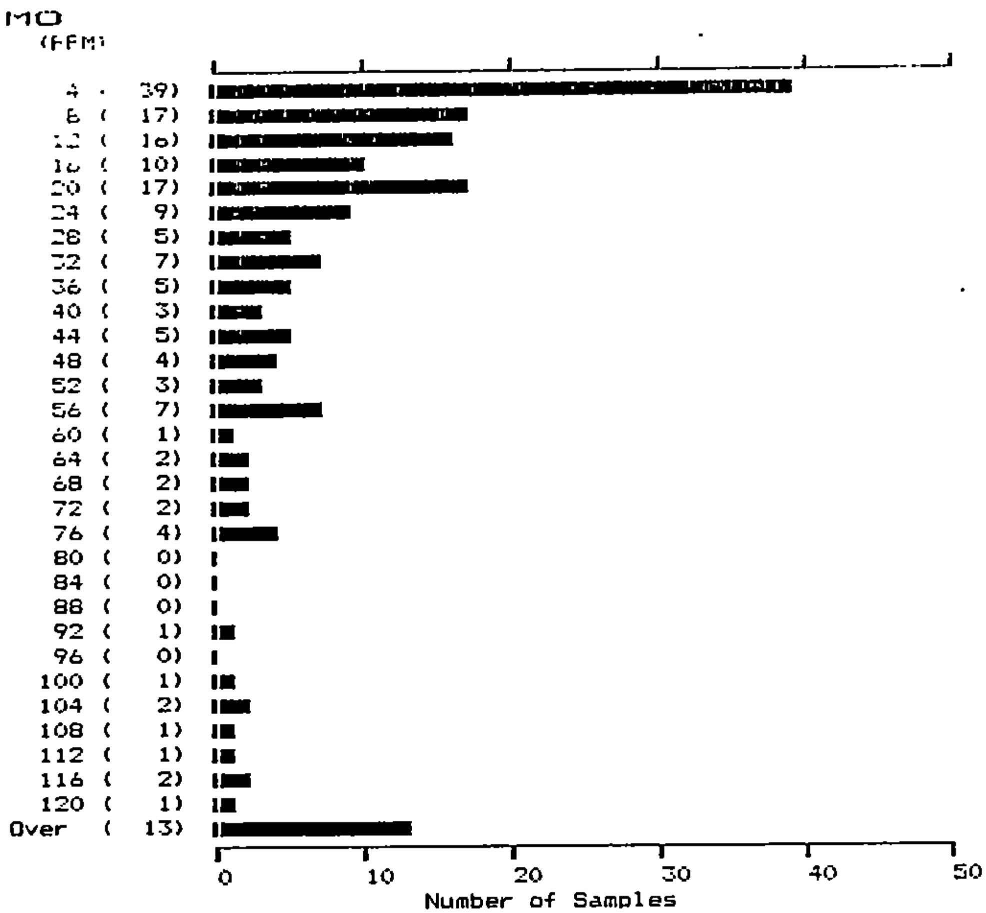


180 Samples

Maximum: 4253
Minimum: 3

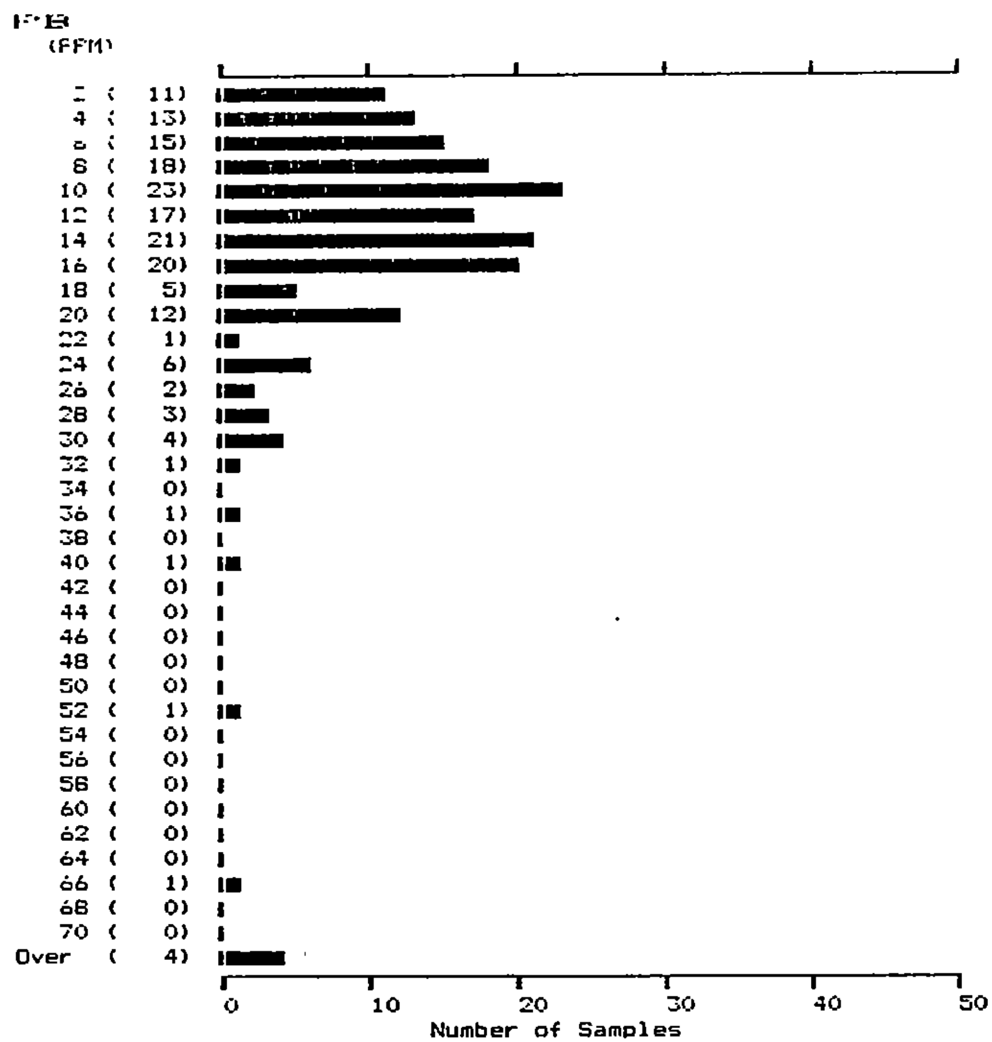
Mean: 1035
Standard Deviation: 880

C.E.C.ENGINEERING



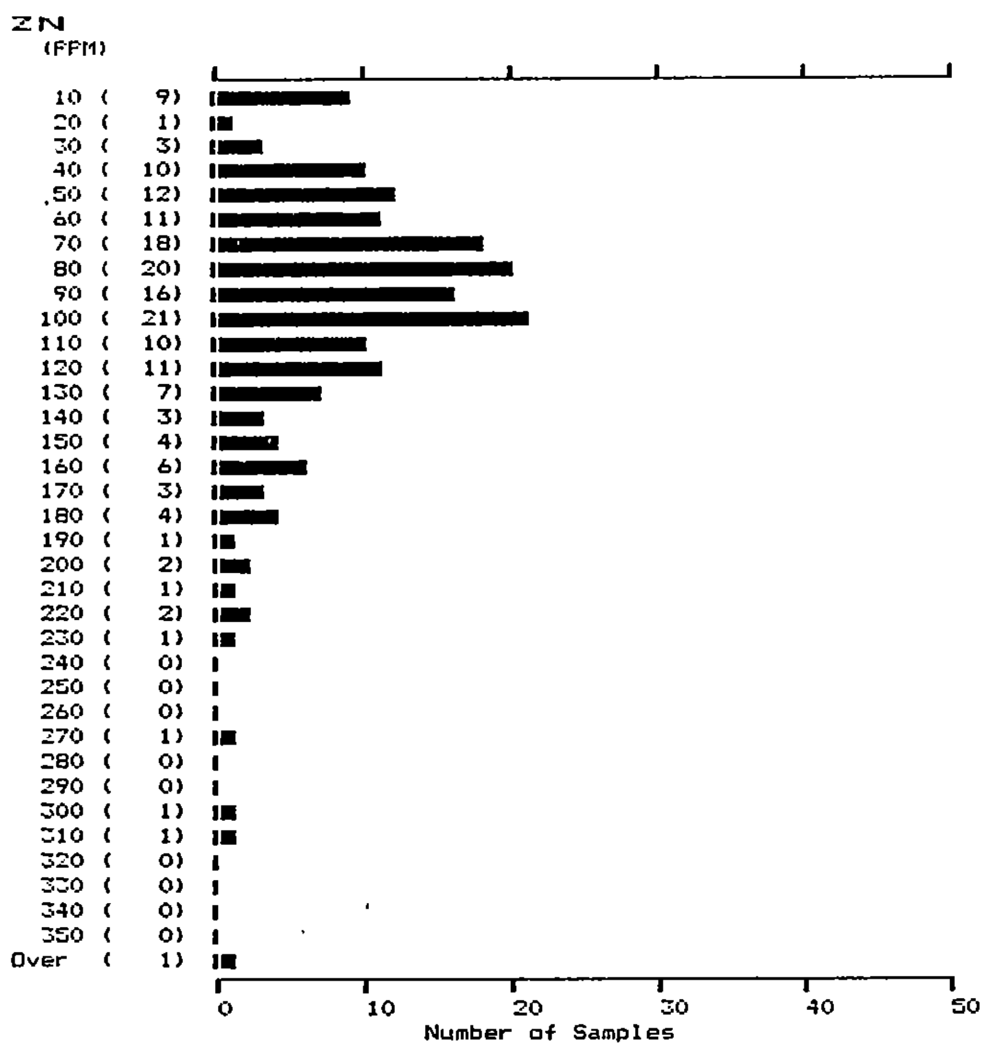
180 Samples Maximum: 794 Mean: 42
Minimum: 1 Standard Deviation: 78

C.E.C. ENGINEERING



180 Samples   Maximum: 193   Mean: 16
Minimum: 2   Standard Deviation: 23

C.E.C. ENGINEERING



180 Samples   Maximum: 367   Mean: 93
Minimum: 1   Standard Deviation: 56

APPENDIX V

Getty Mines, Limited

1976 Drill Logs and Assay Summaries

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number: K-76-1

Property....KEMESS
Location..Omineca..Mining Division : B.C.

Grid..Using..Kennco DDH. KX-3..93 Origin
Latitude......37+40. N.
Departure....11+95. W.

Core Size......NQ.
Elev. Collar....4025'
Bearing.
Dip...........90°
Length.........378'
Horiz. Trace.
Vert. Trace.

Starting Date....Aug. 2, 1976.
Completion Date. Aug. 4, 1976.

Date Logged.
Logged by...G. Dekoe.. and R. Cann

Dip Tests		
Depth	Angle Read	Angle Actual
Collar		

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH.	Cu %	Mo %	Ag (oz/Ton)	Au (oz/Ton)
0	12'	Casing - 3' of overburden plus 9' of broken rock	4001	12'	20'		.092	.002	.13	.014
			4002	20	30		.034			
12'	100'	ANDESITE BRECCIA	4003	30	40		.021	.004	.08	.003
		Intensely broken and sheared brecciated dark greenish-grey rock,	4004	40	50		.014			
		composed mainly of angular fragments of lighter greenish-	4005	50	60		.028	.003	.07	.006
		grey porcellaneous-looking fragments in a darker andesitic	4006	60	70		.039			
		matrix. Some fragments are epidotized (at 15') and some are	4007	70	80		.070	.003	.09	.004
		altered or weathered to a pinkish coloration with zeolite (?)	4008	80	90		.041			
		minerals, drilling progress was slow and difficult and	4009	90	100		.030	.004	.08	.001
		recovery poor from 12'-50'. core displays intense shearing	4010	100	110		.021			
		at 45° from 15'-20'.	4011	110	120		.042	.004	.07	.002
		Abundant limonite occurs as coatings on 40°-50° fractures.	4012	120	130		.045			
		Core badly shattered with FeO at 15', 18', 22'-24', 25'-28',	4013	130	140		.056	.003	.10	.002
		29'-30'.	4014	140	150		.052			
		At 21', a 4" section of gougey (fault?) material with FeO.	4015	150	160		.023	.003	.09	.002
		Minor disseminated pyrite from 31'-35'.	4016	160	170		.024			
		Core badly crushed at 64' and from 77'-78'. Epidote as patches	4017	170	180		.018	.004	.12	.004
		at 85' and along a 60° fracture at 86'. Fractures tend to	4018	180	190		.070			
		be at random angles and are almost always accompanied by FeO.	4019	190	200		.075	.006	.09	.005
		From 82'-83.5' is a coarse vuggy quartz vein with pink-	4020	200	210		.083			
		orange mineral (zeolite?). Similar pink (zeolite?) mineral	4021	210	220		.035	.004	.10	.003
		occurs as veins with calcite at angles varying from 50°-70° at	4022	220	230		.048			
		88'-95'.	4023	230	240		.093	.003	.09	.005
		Pyrite becomes fairly abundant (1%) as blebs and minute fracture	4024	240	250		.048			
		fillings - most pyrite veinlets are randomly oriented and often	4025	250	260		.103	.004	.10	.005
		cut through the lighter green fragments.	4026	260	270		.084			

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number K-76-1

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		At 72' is a shear fault (1.5" gouge with FeO) almost parallel to	4027	270	280		.058	.004	.07	.003
		the core axis.	4028	280	290		.083			
		Core tends to be less prominently brecciated and fragmental in	4029	290	300		.079	.002	.10	.002
		texture from 89'-100'. Core is fairly compact and competent	4030	300	310		.014			
		from 86'-95' as core is in lengthy 'sticks', even though it is	4031	310	320		.021	.002	.12	.003
		still well fractured. Core badly crushed at 96'-97' and at	4032	320	330		.029			
		100'.	4033	330	340		.041	.007	.09	.008
		A fracture with FeO at 5° to the axis occurs at 101.5'.	4034	340	350		.097			
		A 1/4" pink calcite vein with quartz cuts the core axis at	4035	350	360		.088			
		50° at 103' - also a 1/8" pyrite vein at 5-10° at 103'.	4036	360	370		.042	.005	.10	.004
		Disseminated and blebs of pyrite are locally present but chalcopyrite	4037	370	378		.025			
		is rare. Malachite stain at 65' and 82'.								
		Maroon limonite occasionally present on fractures e.g. 105'.								
		From 100' the preferred fracture angle is 45°-50°.								
		Considerable K-spar and epidote flooding from 108.5'-109'.								
100'	121'	AUGITE PORPHYRITIC ANDESITE								
		Transitional from andesite breccia, same andesitic composition,								
		but with a greater abundance of randomly distributed								
		phenocrysts of augite								
		Rock is very weakly magnetic.								
		Pervasive flooding of epidote in dendritic pattern from								
		110'-112'.								
		At 112' is a 50° slip with a thin film of gouge and some								
		maroon hematite								
		112.5'-121' core is flooded (dendritic and disseminated)								
		with sulfides (mainly pyrite) estimated at 10%. Possibly								
		trace chalcopyrite. Epidote also locally pervasive throughout								
		most of the interval 112.5'-121'.								
121'	168'	BRECCIATED ANDESITE and ANDESITE								
		Dark greenish-grey competent andesite locally brecciated								
		(good examples of fragments at 145', 159'-160').								

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number K-76-1

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		A 15° slip with FeO at 121'. Patch of pyrite at 145'; also as blebs, disseminations and fracture fillings scattered randomly through much of the interval. Chlorite developed on several fractures and some slips. Core badly broken at 139-140' and 149.5'. Chloritic slip with minor gouge at 151' at 10° to the axis. A ½" quartz-pink calcite vein cuts the core at 60° at 155'.								
168'	176'	ANDESITE Aphanitic, massive andesite White and pink (hematitic ?) calcite is common as fracture filling (e.g. 169'). Epidote is commonly associated with calcite in fractures. Common fracture angle is 15°-30°. Pyrite occurs predominantly as veinlets, commonly bordered with calcite, up to 0.1" thick. The veinlets are 45° to parallel to the core axis. Pyrite also occurs as disseminated blebs. 168'-176' average pyrite 2%. Chalcopyrite was noted at 168.5' as a 0.2" bleb bordering a pyrite veinlet. Rock is weakly magnetic.								
176	182	AUGITE PORPHYRY ANDESITE Dark grey andesite with subhedral augite phenocrysts up to 0.15" across. Phenocrysts compose up to 60% of the rock (e.g. 179.5'). Calcite occurs as fracture fillings varying from 20°-90°. Pink zeolite (laumontite ?) occurs as coatings on 80°-30° fractures. Two parallel 0.1" thick quartz-sericite veins at 40° to the core axis occur at 179.5' and 181.7'. Epidote-chlorite is uncommon but occasionally occurs on fractures with calcite and as 0.1" patches at 178'.								

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number: K-76-1

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		Pyrite occurs as fine disseminations and as veinlets up to 0.5" wide in calcite and in the centre of quartz-sericite veins.								
		The rock is weakly magnetic.								
		No chalcopyrite observed.								
		Hematite occurs in minor quantities on some fractures.								
182'	185'	ALTERED ANDESITE								
		Rock is bleached due to intense sericite (with minor quartz) and K-spar alteration. Sericite is pervasive throughout.								
		Dendritic K-spar flooding occurs throughout but is most intense at 184'.								
		Epidote occurs in a 30° fracture at 184'.								
		Pyrite occurs as veinlets in fractures at 10°-60° and locally as fine disseminated blebs. Average pyrite content 3% over 3 feet.								
		Chalcopyrite occurs as very fine (≈0.02" across) blebs but constitutes <0.5% of the core.								
		Magnetite occurs as fine disseminations in a band 0.6" wide at an angle of 45° at 184.5'.								
		Common fracture angle is 45°.								
185'	232'	ANDESITE								
		Aphanitic andesite.								
		Local Andesite Breccia at 189'-190' with angular fragments up to 2" across.								
		A 3/4" quartz vein at an angle of 70° to the core axis occurs at 186'.								
		Calcite veins from hairline to 1/2", at angles commonly from 30°-50°. Calcite forms fault breccia cement 3/4" wide at 50° at 206'. Calcite and zeolite are ribonned in a 1" shear zone at 35° at 208'.								
		Pink zeolite occurs as friable coatings on fractures of variable angles.								
		Epidote is common in fractures with calcite throughout but								

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number K-75-1

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		epidote flooding is intense at 219'-220' and 227'-228'.								
		Pyrite most commonly occurs as fracture fillings up to 0.1" wide and at approximately 30°. Average pyrite content 1-2%.								
		Chalcopyrite is uncommon but occurs as fine blebs in pyrite.								
		Magnetite occurs as a 0.1" veinlet at 199'. Rock is weakly to moderately magnetic.								
		Hematite occasionally occurs on fractures with zeolite.								
		Fractures commonly at 50° and 75°.								
		Hematite and chlorite coated slip fractures at 35° occur at 211' and 222.5'.								
232'	296.5'	ANDESITE and AUGITE PORPHYRY ANDESITE								
		Generally aphanitic andesite however locally porphyritic (ie 246.5'-247.5', 253', 262', 273', 279.5'-282', 295') with stubby, subhedral to euhedral, medium grained augite phenocrysts.								
		Quartz veining (0.5" at 55° and 60°) at 258.7' and 255.5'.								
		Calcite (± pink zeolite ?) is common as ribonned veinlets up to 0.2" thick at random fracture angles throughout.								
		Laumontite also occurs as veinlets up to 0.2" thick in random fractures.								
		Core well epidotized 232.5'-233.5'. Epidote also occurs as 0.1" veinlets (e.g. 278')								
		256.5'-258' badly fractured rock and fault gouge.								
		Hematite and chlorite (± calcite) filled slip fractures occur at 234' (45°), 259' (30°), 295' (0°).								
		Pyrite occurs predominantly as veinlets up to 0.2" wide, mainly at 20°-40° to the core axis								
		260'-264' pyrite content 4%								
		Pyrite also occurs as fine disseminations in areas of pyrite veining.								
		Chalcopyrite occurs as irregular blebs up to 0.1" across in pyrite veinlets (e.g. 290.5') or quartz (e.g. 278').								
		Magnetite occurs intermixed with pyrite in veinlets and as bands of disseminated magnetite 2" wide at 45° (e.g. 291.5')								

GETTY MINES, LIMITED

Hole Number K-76-1

DRILL HOLE LOG

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
		Core is weakly to moderately magnetic.								
296.5'	313'	AMYGDALOIDAL ANDESITE								
		Massive dark grey-green andesite with amygdules up to 0.2"								
		across. Amygdules reach maximum size at 305' and								
		contain calcite and/or zeolite. Calcite ± zeolite is also								
		ribonned in 0.1" veinlets parallel to the core axis and in								
		a vuggy vein 1" wide at 60° at 308.5'.								
		Chlorite and epidote virtually absent except in one 30°								
		fracture.								
		No visible sulphides								
		Core weakly magnetic.								
		Common fracture angle approximately 60°.								
313'	378'	AUGITE PORPHYRY ANDESITE								
		Rock description as previously.								
		Epidote is locally pervasive (e.g. 314'-315').								
		Calcite occurs as veinlets sub-parallel to the core axis								
		up to 0.3" wide.								
		A ½" quartz vein with some calcite cuts the core at 5°-10°								
		at 321'.								
		A 3" quartz-calcite vein with pink zeolite at 60° at 325'								
		368.5' - a vuggy quartz-calcite vein.								
		Hematite occurs in one 30° fracture and a slip zone								
		parallel to the core axis at 315.5'.								
		An angular basaltic fragment noted at 316.3'.								
		The upper contact with Amygdaloidal Andesite is a zeolite								
		and chlorite filled gouge zone 0.1" thick at 20°.								
		The core is moderately magnetic.								
		Pyrite sparse - occurs as disseminations in gouge and								
		microveinlets at 30° to the axis. Pyrite as blebs, often								
		with quartz veins, scattered in the interval 339'-349.5'								
		Chalcopyrite noted as very fine blebs in an epidote-calcite								

GETTY MINES, LIMITED

Hole Number K-76-1

DRILL HOLE LOG

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		microveinlet at 60° between 313' and 318'. Small blebs of chalcopyrite at 335', 340', 344', 345', 378'. A bleb of chalcopyrite with a quartz vein at 15° at 359'. Numerous fractures filled with white-pink zeolite minerals and cutting the core at varying angles between 40° and 60°.								
		A slip with a 1/4" quartz vein cuts the core parallel to the axis at 350'.								
		END OF HOLE								

DRILL CORE RECOVERY

TOTAL RECOVERY 93.1%

HOLE NUMBER....K-76-1....

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
0	12'	Cased	
12	18	6.0	5.5
18	23	5.0	3.0
23	28	5.0	2.5
28	31	3.0	2.0
31	35	4.0	1.0
35	42	7.0	2.5
42	44	2.0	1.3
44	50	6.0	1.0
50	53	3.0	2.5
53	54	1.0	0.8
54	58	4.0	4.0
58	60	2.0	2.0
60	68	8.0	8.0
68	70	2.0	2.0
70	76	6.0	6.0
76	78	2.0	1.0
78	88	10.0	10.0
88	97	9.0	5.5
97	100	3.0	1.0
100	107	7.0	7.0
107	117	10.0	11.2
117	126	9.0	9.2
126	136	10.0	10.0
136	140	4.0	3.3
140	148	8.0	8.0
148	152	4.0	4.0
152	158	6.0	6.5
158	168	10.0	10.0
168	178	10.0	10.3
178	182	4.0	3.6
182	188	6.0	6.7
188	192	4.0	2.9
[illegible]	[illegible]	[illegible]	[illegible]

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
198	208	10.0	10.3
208	214	6.0	6.5
214	224	10.0	9.8
224	232	8.0	8.5
232	238	6.0	5.5
238	242	4.0	4.7
242	248	6.0	5.7
248	258	10.0	9.5
258	268	10.0	9.8
268	278	10.0	10.2
278	288	10.0	10.0
288	298	10.0	10.3
298	308	10.0	9.9
308	318	10.0	9.7
318	328	10.0	10.0
328	338	10.0	10.0
338	348	10.0	10.0
348	358	10.0	10.1
358	368	10.0	9.9
368	378	10.0	10.0
End of Hole			

GETTY MINES, LIMITED

Hole Number K-76-2

DRILL HOLE LOG

Property..... KEMESS
Location.. Omineca Mining Division - B.C.
Grid.. Using.. Keonce DDH KK-3 95 Origin
Latitude..... 2+03 S
Departure..... 1+58 W

Core Size....... NQ
Elev. Collar... 5975
Bearing.......
Dip........... 90°
Length........ 388'
Horiz. Trace.......
Vert. Trace.......

Starting Date... Aug. 7, 1976
Completion Date. Aug. 9, 1976
Date Logged.......
Logged by.... R. Copp

Dip Tests		
Depth	Angle Read	Angle Actual
Collar		

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH.	ASSAY Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
0	32'	Casing	4038	32	40		.065	.002	.29	.010
			4039	40	50		.052			
32'	45'	ANDESITE	4040	50	60		.065	.002	.12	.009
		Fine grained, massive andesite	4041	60	70		.033			
		32'-33.5' Amygdaloidal Andesite - amygdules up to 0.1" across	4042	70	80		.023	.002	.11	.007
		containing white calcite.	4043	80	90		.015			
		33.5'-45' - All fractures contain FeO. Rock well fractured by	4044	90	100		.028	.003	.09	.010
		fractures at random angles.	4045	100	110		.045			
		Pyrite occurs predominantly as fracture fillings but also as fine	4046	110	120		.039	.002	.09	.008
		disseminations through the core.	4047	120	130		.028			
		33.5'-35' pyrite content 6-7%	4048	130	140		.023	.002	.10	.008
		34.5' - 0.3" veinlet of pyrite at 70° to axis	4049	140	150		.024			
		½" gouge at 35.4', 0.1" gouge at 37', 1" gouge at 38.5',	4050	150	160		.033	.003	.10	.008
		2" gouge at 40',	4051	160	170		.097			
		1.5' of badly broken rock and gouge around 43'.	4052	170	180		.040	.004	.10	.002
			4053	180	190		.051			
45'	67.5'	ANDESITE BRECCIA	4054	190	200		.040	.006	.12	.007
		Angular to subangular fragments - generally darker than the matrix	4055	200	210		.042			
		Calcite veining common past 45' - vein up to 0.5" thick	4056	210	220		.048	.003	.13	.007
		at angles 0°-90° but commonly 40°-50°.	4057	220	230		.031			
		Most fragments are greenish due to pervasive epidotization.	4058	230	240		.045	.003	.09	.008
		Epidote is locally abundant in the matrix	4059	240	250		.079			
		Calcite veining very abundant 58' to 67.5'.	4060	250	260		.038	.004	.10	.008
		Pyrite occurs disseminated in the matrix and to a lesser	4061	260	270		.057			
		extent as veinlets up to 0.1" thick.	4062	270	280		.045	.007	.11	.007
		52'-55' pyrite content 4-5%	4063	280	290		.049			

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number K-76-2

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
67.5'	76.5'	ANDESITE BRECCIA - AUGITE PORPHYRY Contact	4064	290	300		.050	.003	.08	.010
		Gradational contact.	4065	300	310		.089			
		Most Fragments are Augite Porphyry Andesite.	4066	310	320		.151	.005	.10	.010
			4067	320	330		.053			
76.5'	90.5'	AUGITE PORPHYRY ANDESITE	4068	330	340		.073	.004	.10	.008
		Blocky, euhedral to subhedral augite phenocrysts up to 0.1" in	4069	340	350		.074			
		diameter. Rock is 10-15% phenocrysts	4070	350	360		.090	.005	.10	.008
		Calcite veins to 0.5" generally occur at angles of 40° or 60°	4071	360	370		.082			
		Occasional streak of red-violet in the calcite.	4072	370	380		.071	.005	.10	.007
		Rock generally very fresh in appearance.	4073	380	388		.049			
		Hematite film on a few fractures								
		Pyrite in general occurs as fine disseminations - content ≤ 1%								
		Pyrite veinlets uncommon. At 84', 0.1" veinlet at 60° to axis								
		No chalcopyrite seen								
		Rock is non-magnetic								
		Common fracture angle about 55°								
90.5'	116'	ANDESITE								
		Aphanitic, massive grey-green andesite.								
		Calcite veining (locally pink) from 0.05" - 1" thick at variable								
		angles (30°-90°).								
		Epidote uncommon, locally occurs as blotches to 1" and in								
		veinlets rimming calcite.								
		At 105' - ½" epidote and calcite vein at 90° to the axis.								
		110'-112' generally silicified and brecciated with pyrite								
		cementing the fragments.								
		Pyrite divided about equally between disseminated and veinlets.								
		Disseminated blebs throughout interval to .3" across, locally								
		associated with epidote blebs. Veinlets generally with calcite								
		gangue. Average pyrite content in interval about 3%.								
		Minor chalcopyrite noted at 99' where it occurs as blebs								
		with pyrite in a calcite vein								
		Common fracture angle 55°.								

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number K-76-2

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
		Slip surface 30° to axis at 109.5'.								
		Locally minor hematite in fractures.								
116'	120'	MASSIVE ANDESITE								
		Dark, basaltic.								
		Minor hairline calcite microveinlets at 70°								
		Barren								
120'	121'	AMYGDALOIDAL ANDESITE								
		Barren basaltic, probably post mineralization dyke. Amygdules								
		generally toward the centre of the dyke.								
		Description as before. Upper contact horizontal, lower contact								
		about 30°								
		Barren. Weakly magnetic								
121'	127.7'	MASSIVE ANDESITE								
		As with interval 116'-120'.								
		Lower contact very sharp and angular								
27.7'	130'	BRECCIATED SILICIC ANDESITE								
		As at 112'. Abundant pyrite in fractures and disseminated								
		between fragments. Weakly magnetic.								
130'	133.3'	Amygdaloidal ANDESITE								
		As before.								
133.3'	136.5'	BRECCIATED SILICIC ANDESITE								
		As before. Minor calcite veining at 30° to the axis.								
		Average pyrite content 3-4 %.								
		134' - 2" FeO stained gouge at 30°.								
136.5'	140'	AMYGDALOIDAL ANDESITE								
		Lower contact sharp, subparallel to axis.								

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number K-76-2

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
140'	142'	BRECCIATED SILICIC ANDESITE								
		As before.								
142'	148.5'	AMYGDALOIDAL ANDESITE								
		Upper contact sharp, angular, parallel to the axis.								
		Lower contact a chloritic slip surface at 30°.								
148.5'	153'	ANDESITE								
		Fine grained								
		Locally abundant blotches and microveinlets of epidote.								
		Pyrite predominantly as veinlets to 0.1", 30°-parallel to								
		the axis, commonly with calcite. Average pyrite content 2%								
		Rock moderately magnetic.								
		Common fracture angle about 60°.								
153'	157'	AMYGDALOIDAL ANDESITE								
		Clearly a post mineral basaltic dyke.								
		Flow banding along the margins.								
		Upper and lower contact sharp and at 30°								
		Abundant hairline calcite filled fractures at variable angles.								
		Moderately magnetic.								
157'	221'	ANDESITE								
		Dark grey, fine grained andesite.								
		Calcite veining commonly at 40° to the axis								
		Epidote forms veinlets to 0.3" thick and borders rimming								
		calcite veins. Epidote veinlets at similar angles to calcite veinlets								
		K-spar vein 1" thick at 35° at 216'.								
		Pink zeolite commonly coats fractures.								
		Rock locally fragmental - e.g. 95'-105'.								
		Pyrite occurs finely disseminated and as veinlets to 0.1"								
		commonly at 30°-45° and locally with intergrown magnetite.								
		Pyrite content about 3%. No chalcopyrite visible								

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number K-76-2

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		Abundant calcite veinlets 30°-90°.								
221'	240'	AUGITE PORPHYRY ANDESITE								
		vuggy pink and white zeolite veining at 50° at 238'								
		calcite veinlets common.								
		Pyrite occurs predominantly as veinlets but also in minor								
		amounts as fine disseminations.								
		Rock is moderately magnetic. Magnetite associated with the pyrite								
		No chalcopyrite visible								
		Fractures commonly at 30°.								
240'	273.5'	ANDESITE								
		Quartz and K-spar flooding over 1 foot at 248'.								
		Quartz veining (locally vuggy) up to 1" thick common at 40°								
		Epidote locally associated with quartz.								
		278' - 2" quartz - epidote - calcite vein.								
		Pyrite occurs as 0.1" veinlets, with intergrowths of magnetite,								
		and locally as disseminations.								
		Pyrite content 1-2%.								
		At 272.5' a 1.5" quartz vein at 45° with pyrite and minor								
		chalcopyrite and specks of moly.								
273.5'	284.5'	AMYGDALOIDAL ANDESITE								
		Calcite filled amygdules as in previous descriptions.								
		At 275.5' ½"(?) fault gouge at 30° to axis.								
		Lower contact 0.2" of gouge at 30°.								
		Upper contact a slip surface at 80° to the axis.								
		Rock moderately magnetic.								
284.5'	388'	ANDESITE								
		Massive, fine grained, dark grey-green andesite								
		Calcite becoming less common - limited to hairline fractures								
		Quartz veining at 45° to the axis.								

GETTY MINES, LIMITED

Hole Number K-76-2

DRILL HOLE LOG

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	Cu %	Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		Zeolites still occuring in fractures.								
		Epidote (relatively minor) occurs as veinlets with calcite								
		Pyrite occurs predominantly as micro veinlets at 40°								
		Chalcopyrite occurs as minor blebs.								
		Large calcite - magnetite blebs (½") at 305'.								
		At 300.5' a hematite stained slip surface at 30° to the axis.								
		Core moderately to locally strongly magnetic								
		From 325' to end of hole the rock is very barren.								
		Some calcite veining and some quartz veins up to 1" thick.								
		At 358' is a 1" K-spar vein at 40° with an adjacent,								
		parallel epidote veinlet.								
		Pyrite (<1%) occurs mainly as disseminations on fractures.								
		361.5' - ½" bleb of chalcopyrite								
		60° a common fracture angle. Fractures locally hematite coated.								
		Microveinlets of magnetite common.								
		Chloritic 30° slip surface at 353'.								
		381'-382' well fractured.								
		END OF HOLE								

DRILL CORE RECOVERY

TOTAL RECOVERY.....99 %.

HOLE NUMBER.....K-76-2

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
0	32'	Cased	
32	38	6.0	6.9
38	45	7.0	5.6
45	52	7.0	6.7
52	58	6.0	5.9
58	68	10.0	9.9
68	78	10.0	9.7
78	88	10.0	10.0
..8	98	10.0	9.7
98	108	10.0	10.3
108	118	10.0	9.9
118	128	10.0	9.5
128	138	10.0	10.0
138	148	10.0	10.2
148	158	10.0	10.0
158	168	10.0	9.8
168	178	10.0	10.0
178	188	10.0	9.7
188	198	10.0	10.1
.98	208	10.0	9.9
208	218	10.0	10.0
218	228	10.0	10.0
228	238	10.0	10.0
238	248	10.0	10.2
248	258	10.0	10.0
258	268	10.0	10.1
268	278	10.0	9.6
278	288	10.0	10.0
98	298	10.0	10.1
298	308	10.0	9.8
308	318	10.0	10.0
318	328	10.0	10.0
328	338	10.0	10.0

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
348	358	10.0	9.6
358	368	10.0	9.7
368	378	10.0	10.0
378	388	10.0	9.9
End at Hole			

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number: K-76-3

Property: KEMESS
Location: Omineca Mining Division - B.C.
Grid: Using Kennco DDH KX-7 as origin
Latitude: 07.38 S
Departure: 31.78 E

Core Size: 26'-808' NQ; 808'-1048' BQ
Elev. Collar: 5505'
Bearing:
Dip: 90°
Length: 1048'
Horiz. Trace:
Vert. Trace:

Starting Date: Aug. 24, 1976
Completion Date: Sept. 3, 1976
Date Logged:
Logged by: R. Good and G. Fyfe

Dip Tests		
Depth	Angle Read	Angle Actual
Collar		

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH.	Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
0	26'	OVERBURDEN - Casing	4208	26	30		.048	.010	.13	.025
			4209	30	40		.115			
26'	35'	ANDESITE	4210	40	50		.290	.006	.10	.017
		Pervasive FeO staining throughout the interval.	4211	50	60		.286			
		All fractures are filled with goethite.	4212	60	70		.425	.013	.13	.016
		Core is locally brecciated and cemented with goethite (e.g. 28.5')	4213	70	80		.145			
		Minor goethite lined boxwork.	4214	80	90		.122	.007	.11	.013
		29.5' - 0.1" quartz vein.	4215	90	100		.245			
		Pyrite in veinlets is altered to FeO. Minor pyrite still as blebs	4216	100	110		.250	.015	.12	.015
		to 1/4" across.	4217	110	120		.265			
		34' - 1/4" gouge at 40°.	4218	120	130		.120	.010	.10	.013
			4219	130	140		.195			
35'	50'	ALTERED ANDESITE	4220	140	150		.110	.006	.12	.013
		Massive, dark grey-green, chloritic andesite.	4221	150	160		.065			
		Core very badly broken - mainly gravel.	4222	160	170		.113	.005	.13	.019
		44' - 0.2" quartz vein at 35°.	4223	170	180		.294			
		FeO staining very minor.	4224	180	190		.182	.004	.13	.013
		Locally a soft orange-brown mineral occurs on fractures (gypsum?)	4225	190	200		.105			
		e.g. 37.5'.	4226	200	210		.120	.007	.12	.012
		Pyrite occurs as fine disseminations and fracture fillings varying	4227	210	220		.125			
		from microveinlets to 0.1".	4228	220	230		.212	.006	.13	.013
		Pyrite locally accompanied by a dark blue mineral - e.g. 44', 48'.	4229	230	240		.278			
		Fine specks of chalcopyrite at 48'.	4230	240	250		.150	.011	.08	.011
			4231	250	260		.220			
50'	140'	BLEACHED and ALTERED PORPHYRY	4232	260	270		.195	.009	.10	.016
		Crowded porphyry with euhedral to subhedral sericitized	4233	270	280		.170			

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number: K-76-3

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		plagioclase (?) phenocrysts up to 0.1" long in a light grey matrix.	4234	280	290		.130	.006	.11	.009
		Needle like hornblende (?) phenocrysts also common.	4235	290	300		.112			
		Phenocrysts are locally altered to dark green chlorite - e.g. 75'-85'	4236	300	310		.202	.007	.12	.013
		Rock in general is still badly fractured.	4237	310	320		.122			
		Pink zeolite occurs in fractures after 104'.	4238	320	330		.136	.007	.13	.010
		Gypsum locally occurs in fractures.	4239	330	340		.132			
		82' - ½" sericite alteration envelope around a pyrite	4240	340	350		.135	.006	.13	.009
		veinlet at 30°.	4241	350	360		.155			
		Pyrite occurs as disseminated specks and blebs and at fracture	4242	360	370		.145	.007	.13	.010
		fillings.	4243	370	380		.152	.011	.10	.008
		Minor chalcopyrite blebs with pyrite.	4244	380	390		.151			
		71' - Dark blue-black mineral.	4245	390	400		.180	.012	.08	.011
		Minor moly in quartz veins - e.g. 109.5'	4246	400	410		.222	.009	.15	.012
		Rock is non-magnetic.	4247	410	420		.182			
			4248	420	430		.182	.007	.13	.011
140'	210'	ANDESITE	4249	430	440		.196	.009	.06	.013
		Dark grey, aphanitic andesite.	4250	440	450		.185			
		Contact with the overlying porphyry is not distinct but	4251	450	460		.162	.008	.10	.011
		appears to be gradational from light coloured bleached rock	4252	460	470		.183	.006	.12	.008
		into dark andesite.	4253	470	480		.085			
		Rock is still highly fractured and incompetent.	4254	480	490		.151	.006	.13	.007
		Minor gypsum veining	4255	490	500		.142			
		Rock barren to 144' except for minor disseminated pyrite specks.	4256	500	510		.162	.009	.14	.010
		Rock is moderately magnetic.	4257	510	520		.335			
		At 144' fine grains of bornite and chalcopyrite in pyrite appear.	4258	520	530		.168	.010	.11	.010
		Minor hematite staining on fractures.	4259	530	540		.182			
		173.5' - 2" fault gouge.	4260	540	550		.241	.009	.10	.009
		After approximately 195' the rock is quite green - possibly	4261	550	560		.146			
		due to chlorite.	4262	560	570		.138	.010	.14	.011
		Minor zeolite veining.	4263	570	580		.195			
		198'-202' bornite and chalcopyrite are common on fractures	4264	580	590		.158	.010	.10	.007
		as disseminated grains with pyrite in slightly more competent	4265	590	600		.122			
		rock.	4266	600	610		.160	.010	.14	.007

GETTY MINES, LIMITED

Hole Number: K-76-3

DRILL HOLE LOG

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		Chalcopyrite is generally visible as fine disseminations after 195'.	4267	610	620		.136	.008	.12	.007
		190'-210' pyrite content 2-3 %.	4268	620	630		.102			
		201.5' - fine moly on a fracture.	4269	630	640		.185	.008	.14	.038
			4270	640	650		.167			
210'	270'	FINE GRAINED ANDESITE (Andesitic Tuff)	4271	650	660		.119	.007	.13	.009
		Intrusive textured andesite - probably andesitic tuff.	4272	660	670		.125			
		Light grey in colour with approximately 10 % mafic minerals.	4273	670	680		.780	.008	.12	.007
		Gypsum veining common at 40° to sub-parallel to the core axis.	4274	680	690		.122			
		Pink veining occurs locally.	4275	690	700		.105	.010	.11	.008
		269.5' - 1" wide quartz vein at 50°	4276	700	710		.123			
		The rock becomes competent at about 233'.	4277	710	720		.135	.005	.15	.005
		Pyrite occurs mainly as microveinlets and veinlets and to a	4278	720	730		.100			
		lesser extent as fine disseminations and as stringers in quartz.	4279	730	740		.069	.005	.12	.008
		Chalcopyrite is very minor - occuring as disseminated blebs in	4280	740	750		.103			
		pyrite veinlets and in andesite.	4281	750	760		.175	.007	.13	.010
		Rock is non-magnetic.	4282	760	770		.148			
		Fractures commonly at 40° and 80°.	4283	770	780		.189	.008	.14	.009
			4284	780	790		.201			
270'	450'	FINE GRAINED MASSIVE ANDESITE	4285	790	800		.162	.008	.11	.009
		Gypsum veining very common up to 1/4" and at random angles.	4286	800	808		.135			
		306.5' - slip surface at 45°. Disseminated blebs of chalcopyrite	4287	808	810		.105	.005	.11	.005
		and 1/4" blebs of chalcopyrite with pyrite in a 3" silicified	4288	810	820		.129			
		zone.	4289	820	830		.163	.006	.12	.006
		316.5' - hematite staining along fractures.	4290	830	840		.135			
		Occasional stringers of magnetite in gypsum.	4291	840	850		.192	.006	.13	.004
		317-350' quartz veining up to 2½" quite common at random	4292	850	860		.104			
		angles. Quartz contains varying amounts of pyrite.	4293	860	870		.179	.006	.13	.006
		Chalcopyrite generally occurs as blebs in pyrite veinlets.	4294	870	880		.155			
		356.5' - hematite stained slip surface at 45°.	4295	880	890		.164	.004	.11	.005
		Magnetite becoming more abundant with increasing depth - occuring	4296	890	900		.160			
		predominantly as veinlets at varying angles (eg. - 388' a 0.2"	4297	900	910		.139	.005	.13	.004
		veinlet at 90°).	4298	910	920		.102			
		Sulphides appear to be decreasing in abundance with depth.	4299	920	930		.214	.004	.10	.004

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number k-76-3

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
		395' - 3" of chloritic gouge at 70°.	4301	940	950		.103	.004	.16	.005
		Minor fluorite at 400'.	4302	950	960		.162			
		The rock is locally porphyritic with stubby augite phenocrysts	4303	960	970		.168	.016	.14	.006
		441.5-443.5' Pervasive chlorite and epidote alteration.	4304	970	980		.204			
			4305	980	990		.332	.011	.19	.011
450'	459'	ANDESITIC CRYSTAL TUFF	4306	990	1000		.242			
		Pale green-grey due to pervasive chloritic - epidote alteration.	4307	1000	1010		.112	.005	.16	.004
		Fine grained	4308	1010	1020		.134			
		Finely disseminated pyrite.	4309	1020	1030		.163	.004	.16	.005
		Core is non-magnetic.	4310	1030	1040		.176			
		454' - slip surface at 35°.	4311	1040	1048		.142	.034	.12	.006
459'	1048'	ANDESITE								
		Massive, fine grained, dark grey andesite. Description as before.								
		Pyrite minor - occurs locally as fine disseminations.								
		Magnetite still common as stringers in gypsum and as veinlets.								
		514' - 2" quartz-pyrite vein with blebs of chalcopyrite in the pyrite.								
		520' - Pink zeolite veining at 30°.								
		Gypsum, calcite (minor) and anhydrite (?) veining common at variable angles.								
		598'-551' chalcopyrite more abundant - mainly as microveinlets and veinlets.								
		Chalcopyrite also occurs after 551' as blebs in quartz and pyrite veins.								
		Pyrite and magnetite are quite commonly intergrown.								
		643.5' - chloritic slip surface at 15°.								
		656.5' - 0.1" gouge at 45°.								
		Above average chalcopyrite from 717'-734' occuring mainly as blebs with pyrite and magnetite in gypsum (?) and quartz-sericite stringers and veins.								
		Andesite locally porphyritic with augite phenocrysts - e.g. 716'-743'								

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number: K-76-3

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		761.5' - slip surface at 30°.								
		Finely disseminated chalcopyrite occurs in andesite at 763', 772',								
		and 773.5'.								
		792.5'-799' K-spar flooding with quartz veining and minor								
		epidote in the quartz.								
		Gypsum and zeolite veining at random angles abundant.								
		808' - reduced to BQ								
		Massive, fine grained andesite.								
		Some veins and pods of purple fluorite.								
		820'-822' Distinct banded texture with finegrained andesite								
		alternating with medium grained andesite.								
		Speck of moly at 818'.								
		Disseminated pyrite and chalcopyrite relatively abundant								
		Pyrite also occurs in veins.								
		An occasional thin veinlet of magnetite.								
		Patches of K-spar abundant in places - e.g. 823'								
		Chlorite alteration, especially on fractures, common.								
		An occasional gypsum vein								
		Minor patches and discontinuous stringers of calcite.								
		827' - abundant chalcopyrite associated with fluorite.								
		Fracturing at 25°-30° common.								
		By approximately 827' the rock becomes generally more								
		aphanitic but other characteristics remain the same.								
		838'-840' K-spar rich section. - also moderately quartz								
		rich (veins and patches of quartz).								
		841.5' - 1/2" fluorite band.								
		Disseminated pyrite and some chalcopyrite common in some								
		dark very fine grained sections - e.g. 845'								
		842' - strong green coloration associated with a fluorite patch								
		845'-852' Fluorite abundant.								
		850' - little change in the rock to this point								
		862'-863' Abundant K-spar.								

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number: K-76-3

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		863'-864' shearing at approximately 70°.								
		Minor disseminated chalcopyrite								
		869'-874' Abundant K-spar, fluorite, quartz and anhydrite.								
		Quartz veining becoming more common and anhydrite veins								
		decreasing.								
		Rock continues to have a faint banded texture in places. Banding								
		is approximately horizontal.								
		Pink zeolite stringers still common.								
		882.5'-883.5' K-spar and fluorite rich.								
		896'-1/4" pyrite vein.								
		Pyrite disseminated throughout but is not abundant.								
		Minor disseminated chalcopyrite. Chalcopyrite seems to be								
		slightly more abundant in fluorite sections.								
		906'-8" quartz band - unmineralized.								
		908'-923' K-spar and fluorite generally abundant.								
		920'-923' Veined and disseminated magnetite very abundant								
		926.5'- Epidote associated with K-spar and fluorite.								
		Zeolite (?) stringers and veins common in places. Pink to white								
		with the pink commonly bordering the white.								
		Starting at approximately 925' K-spar tends to occur more								
		in veins (often with quartz) rather than as a pervasive								
		flooding.								
		Pyrite, especially in veins, becoming more abundant.								
		Quartz still increasing in abundance. Some sections of rock								
		are quite siliceous.								
		975'-978' Abundant moly associated with quartz veining - mainly								
		as rims bordering the veins.								
		From 975 chalcopyrite content seems to increase - both in veins								
		with pyrite and as disseminations.								
		988' - Minor epidote associated with fluorite.								
		At approximately 1009' the rock becomes augite porphyritic								
		with small (< 1/4") phenocrysts. Phenocryst content about 1/3								
		of rock. Matrix appears to consist primarily of small								

GETTY MINES, LIMITED

Hole Number K-76-3

DRILL HOLE LOG

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		plagioclase laths.								
		Quartz content appears to be decreasing again.								
		Disseminated pyrite abundant in places.								
		Veined magnetite still common.								
		1016' - speck of moly.								
		Distinct augite porphyry seems to disappear by 1021'.								
		Large patches of augite-feldspar porphyry occur to the								
		bottom of the hole - probably breccia fragments.								
		Quartz veining becoming more common again.								
		1041'-1043' Abundant disseminated pyrite.								
		1046.5' - Moly and chalcopyrite associated with quartz veining								
		END OF HOLE								

DRILL CORE RECOVERY

TOTAL RECOVERY ....87%..

HOLE NUMBER...K-76-3....

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
0	26'	Cased	
26	28	2.0	0.7
28	36	8.0	6.1
36	38	2.0	1.5
38	43	5.0	3.0
43	48	5.0	1.6
48	58	10.0	1.4
58	68	10.0	4.0
8	70.5	2.5	1.4
70.5	78	7.5	6.0
78	84	6.0	2.9
84	88	4.0	3.9
88	94.5	6.5	2.5
94.5	103.5	9.0	4.5
103.5	108	4.5	1.7
108	111.5	3.5	1.6
111.5	122	10.5	3.3
122	129	7.0	0.4
129	137	8.0	0.6
37	140	3.0	0.6
140	148	8.0	1.5
148	153.5	5.5	0
153.5	158	4.5	0.4
158	168	10.0	4.0
168	172	4.0	1.5
172	178	6.0	2.8
178	188	10.0	1.7
188	198	10.0	1.1
'98	208	10.0	7.6
08	218	10.0	0.9
218	224	6.0	3.0
224	228	4.0	0.8
228	238	10.0	10.0
[illegible]	[illegible]	[illegible]	[illegible]

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
248	258	10.0	9.4
258	268	10.0	9.8
268	277	9.0	8.1
277	287	10.0	10.0
287	297	10.0	10.1
297	307	10.0	10.0
307	317	10.0	9.9
317	318	1.0	0.7
318	328	10.0	9.8
328	338	10.0	10.0
338	348	10.0	9.8
348	358	10.0	9.8
358	368	10.0	9.8
368	378	10.0	10.0
378	388	10.0	9.9
388	398	10.0	10.0
398	408	10.0	10.0
408	418	10.0	9.8
418	428	10.0	9.9
428	438	10.0	10.0
438	448	10.0	10.0
448	458	10.0	10.2
458	468	10.0	9.8
468	478	10.0	10.0
478	488	10.0	10.1
488	498	10.0	9.9
498	508	10.0	10.0
508	518	10.0	10.0
518	528	10.0	9.6
528	538	10.0	9.9
538	548	10.0	10.1
548	558	10.0	10.1
558	568	10.0	10.2
[illegible]	[illegible]	[illegible]	[illegible]

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
578	588	10.0	10.1
588	598	10.0	10.2
598	608	10.0	10.0
608	618	10.0	10.0
618	628	10.0	10.0
628	638	10.0	10.0
638	648	10.0	9.9
648	658	10.0	10.0
658	668	10.0	9.8
668	678	10.0	9.8
678	688	10.0	9.9
688	698	10.0	10.0
698	708	10.0	9.9
708	718	10.0	10.1
718	728	10.0	9.8
728	738	10.0	10.2
738	748	10.0	9.9
748	758	10.0	10.2
758	768	10.0	9.9
768	778	10.0	10.1
778	788	10.0	9.8
788	798	10.0	10.2
798	808	10.0	9.8
808	818	10.0	10.0
818	828	10.0	9.8
828	838	10.0	9.2
838	839	1.0	1.4
839	848	9.0	9.1
848	858	10.0	10.0
858	868	10.0	9.8
868	878	10.0	10.0
878	888	10.0	10.0
888	898	10.0	9.9
[illegible]	[illegible]	[illegible]	[illegible]

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
908	918	10.0	9.8
918	928	10.0	9.9
928	938	10.0	9.9
938	948	10.0	9.8
948	958	10.0	9.7
958	968	10.0	10.0
968	978	10.0	9.9
978	988	10.0	10.0
988	998	10.0	9.9
998	1006	8.0	7.8
1006	1016	10.0	10.1
1016	1027	11.0	10.2
1027	1037.5	10.5	10.2
1037.5	1048	10.5	10.4
End of Hole			

GETTY MINES, LIMITED

Hole Number K-76-4

DRILL HOLE LOG

Property. KEMESS
Location. Omineca Mining Division - B.C.
Grid. Using Kemess DDH. KX-2 as Origin
Latitude. 6+25 S
Departure. 1+37 W

Core Size. 26'-310', NQ; 310'-1012', BQ
Elev. Collar. 5550
Bearing.
Dip. 90°
Length. 1012
Horiz. Trace.
Vert. Trace.

Starting Date. Sept. 5, 1976
Completion Date. Sept. 10, 1976
Date Logged.
Logged by. G. Fyfe

Dip Tests		
Depth	Angle	
	Read	Actual
Collar		

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH.	Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
0	26'	OVERBURDEN - Casing	4312	26	30		.037	.007	.15	.012
			4313	30	40		.069			
26'	36.5'	ALTERED BLADED FELDSPAR PORPHYRY ANDESITE	4314	40	50		.127	.002	.14	.004
		Phenocrysts generally small (≤ 1/4" in length) and are distinctly	4315	50	60		.193			
		euhedral in only a few places.	4316	60	70		.413	.003	.10	.013
		The groundmass is usually quite silicified.	4317	70	80		.275			
		Iron oxides throughout - on fractures and disseminated.	4318 + 19	80	100		.125	.001	.04	.004
		29.5'-30' vein at 15° to core axis containing magnetite. The	4320	100	110		.091	.001	.10	.001
		rock is otherwise non-magnetic.	4321	110	120		.065			
		Disseminated pyrite throughout.	4322	120	130		.030	.003	.08	.008
			4323	130	140		.188			
36.5'	48.5'	AUGITE PORPHYRITIC ANDESITE BRECCIA	4324	140	150		.265	.006	.11	.013
		contact with overlying feldspar porphyry quite sharp - brecciated	4325	150	160		.220			
		over 1".	4326	160	170		.198	.012	.11	.012
		36.5'-37' Dark, fine grained, very small (< 1/10") augite phenocrysts	4327	170	180		.251			
		In general the phenocrysts occur up to 1/8" and are subhedral	4328	180	190		.260	.008	.11	.011
		to euhedral.	4329	190	200		.185			
		Zeolite filled amygdules up to about 3/8" diameter common	4330	200	210		.160	.006	.15	.024
		Zeolites are white with brownish patches.	4331	210	220		.245			
		Fractures still coated with iron oxide but content is much lower	4332	220	230		.291	.012	.13	.014
		than in the first section	4333	230	240		.155			
		Breccia fragments generally difficult to see but seem to	4334 + 35	240	258	-	.245	.007	.09	.008
		occur in sizes up to about 1/4" and appear to be all of	4341	310	320		.105	.013	.09	.004
		the same type	4342	320	330		.112			
		Zeolite stringers common	4343	330	340		.150	.007	.14	.004
		The rock becomes very dark and fine grained towards the	4344	340	350		.160			

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number K-76-4

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
		lower contact.	4345	350	360		.065	.014	.14	.005
		Rock within the interval generally quite competent.	4346	360	370		.190			
		Rock is slightly magnetic throughout	4347	370	380		.110	.005	.08	.002
		No visible sulphides.	4348	380	390		.068			
			4349	390	400		.070	.002	.10	.003
48.5	81	ALTERED BLADED FELDSPAR PORPHYRY ANDESITE	4350	400	410		.059			
		Similar to the first section but much more chloritic.	4351	410	420		.070	.002	.13	.004
		Plagioclase laths very indistinct - sericitized and silicified.	4352	420	430		.078			
		Rock generally very broken and crumbly but there are a few	4353	430	440		.115	.003	.18	.003
		short, competent sections.	4354	440	450		.115			
		A couple of probable gouge sections	4355	450	460		.120	.006	.20	.004
		73'-75' Darker, finer grained very chloritic rock - contains	4356	460	470		.150			
		pink (laumontite) stringers and pale yellow stringers - also a	4357	470	480		.089	.007	.22	.004
		zeolite ?	4358	480	490		.210			
		The rock is slightly magnetic.	4359	490	500		.130	.007	.15	.005
		Pyrite is common as disseminations, on fractures and in veins	4360	500	510		.081			
		50' - speck of moly	4361	510	520		.105	.003	.08	.003
		Chalcocite ? - occurs mainly on fractures	4362	520	530		.108			
			4363	530	540		.078	.001	.08	.004
81'	87.5'	AUGITE PORPHYRITIC ANDESITE BRECCIA	4364	540	550		.100			
		Dark and fine grained. Similar to the contact zones of the	4365	550	560		.190	.003	.08	.006
		36.5'-48.5' interval.	4366	560	570		.141			
		Pink and white zeolite stringers and also pale yellow stringers.	4367	570	580		.081	.003	.16	.008
		A pale yellow mineral also occurs as an alteration product of	4368	580	590		.119			
		some of the augite phenocrysts.	4369	590	600		.101	.005	.16	.006
		A dark red, almost maroon, mineral occurs in veinlets and as	4370	600	610		.120			
		disseminations - hematite	4371	610	620		.208	.004	.19	.004
		No amygdules	4372	620	630		.070			
		No visible sulphides.	4373	630	640		.169	.005	.13	.005
		The rock is slightly magnetic	4374	640	650		.150			
			4375	650	660		.091	.003	.12	.003
87.5'	102'	ALTERED PORPHYRITIC ANDESITE	4376	660	670		.138			
		Similar to the 48.5'-81' section	4377	670	680		.092	.006	.15	.004
			[illegible]	[illegible]	[illegible]		[illegible]			

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number K-76-4

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
		Could also be a crystal tuff.	4379	690	700		.096	.002	.11	.005
		Generally broken and crumbly - very poor recovery	4380	700	710		.097			
		Abundant pyrite and probably considerable chalcocite also.	4381	710	720		.089	.002	.10	.003
			4382	720	730		.103			
102'	119'	AUGITE PORPHYRITIC ANDESITE BRECCIA	4383	730	740		.112	.004	.11	.004
		Contact appears gradational over a couple of feet. Fine	4384	740	750		.073			
		grained to about 105'.	4385	750	760		.062	.003	.09	.003
		Some breccia fragments as previously.	4386	760	770		.070			
		White zeolites in stringers and amygdules.	4387	770	780		.100	.005	.09	.006
		Small green spots (chlorite ?) occur occasionally - mainly	4388	780	790		.115			
		associated with zeolites.	4389	790	800		.098	.004	.10	.008
		Lower contact fine grained for 6"	4390	800	810		.183			
		No visible sulphides	4391	810	820		.101	.005	.11	.004
			4392	820	830		.058			
119'	121'	HIGHLY ALTERED ANDESITE	4393	830	840		.119	.005	.14	.008
		Possibly intrusive - has an intrusive texture.	4394	840	850		.160			
		Possesses a pink colouration - probably due to K-spar.	4395	850	860		.122	.005	.14	.008
		Sharp contacts	4396	860	870		.151			
		Appears to contain a lithic fragment near 121'	4397	870	880		.151	.006	.14	.008
		Very minor disseminated pyrite.	4398	880	890		.140			
		A couple of small magnetite stringers.	4399	890	900		.210	.008	.12	.010
			4400	900	910		.131			
121'	132'	AUGITE PORPHYRITIC ANDESITE BRECCIA	4402	910	920		.149	.007	.13	.011
		Same as previously except amygdules not common.	4403	920	930		.265			
		Sharp lower contact.	4404	930	940		.089	.006	.14	.009
		Very minor disseminated pyrite	4405	940	950		.197			
		Moderately magnetic.	4406	950	960		.203	.004	.16	.013
			4407	960	970		.188			
'32'	334'	ALTERED ANDESITE	4408	970	980		.235	.005	.12	.010
		Probably originally bladed feldspar porphyry	4409	980	990		.101			
		Some quartz veining	4410	990	1000		.081	.004	.12	.011
		Pervasive chlorite alteration common	4411	1000	1010		.140	.004	.14	.009
		Altered plagioclase laths can occasionally be discerned.	4412	1010	1012					

GETTY MINES, LIMITED

Hole Number K-76-4

DRILL HOLE LOG

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		Rock generally very broken and crumbly but some sections								
		(e.g. 156.5'-162.5') are more competent.								
		Minor white to pink zeolite blebs and stringers.								
		Feldspar laths more distinct around 161'.								
		Magnetite occurs mainly in small veinlets								
		Pyrite abundant - as disseminations on fractures and in veins								
		Chalcocite ? and covellite common - mainly on fractures as black								
		earthy masses. Abundant at 191'.								
		196' - Small gouge zone at 15° to the core axis								
		Minor moly - e.g. 190'.								
		Rock continues to be very soft. Highly chloritized and								
		probably sericitized.								
		Very little veining. A few zeolite and/or gypsum stringers.								
		By approximately 200' specks of chalcopyrite begin to appear.								
		Moderately magnetic but no magnetite veins seen.								
		Moly common in places.								
		Chalcocite continues to be relatively abundant.								
		248'-258' A couple inches of recovery.								
		258'-271' No recovery. Very sandy section - squeezing. Couldn't								
		drill.								
		271'-310' Tricomed - no recovery								
		Cased to 310' with NQ rods and started drilling BQ.								
		Starting at 310' the rock is very competent. Rock type								
		unchanged - just harder. Rock still very chloritized.								
		Anhydrite and quartz veining common								
		Non-magnetic.								
		Chalcopyrite common - mainly in veins but also some disseminated.								
		316' - abundant chalcopyrite in anhydrite vein.								
		318' - Moly in a vein								
		Disseminated pyrite common.								
		330'-331.6' Massive purple-white fluorite. Smaller fluorite veins								

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number K-76-4

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		at 332' and 333'.								
		Porphyritic plagioclase laths quite distinct in the interval 320'-330'								
		Very abundant chalcopyrite in a fluoritic section at 331.4'.								
334'	871'	ALTERED AUGITE PORPHYRY ANDESITE ?								
		Generally fine grained and dark with a greenish tinge.								
		Blotches of pale green discernible throughout - possibly altered								
		augite phenocrysts.								
		White veining common - probably mainly quartz but too soft to								
		be all quartz. Some veins have a purplish tinge (fluorite).								
		The white veins are abundantly mineralized with magnetite,								
		chalcopyrite, pyrite and moly.								
		Chalcopyrite and pyrite also occur disseminated.								
		Veining commonly at 20° to the core axis.								
		Rock is well chloritized								
		competent								
		Augite phenocrysts gradually become less and less distinct.								
		Disseminated and veined pyrite extremely common.								
		Some chalcopyrite associated with the pyrite.								
		A few anhydrite veins and stringers occuring.								
		Around 450' a few patches of pinkish material - possibly K-spar.								
		Pyrite and magnetite very common in fluoritic veins.								
		Little change in rock type - on split surfaces it is definitely								
		seen to be an augite porphyry.								
		484' - Moly associated with fluorite.								
		Magnetite veining common in places - e.g. 1/8" at 523'.								
		Purple fluorite becoming more common again around 538'.								
		Minor epidote around 540'.								
		536'-546' Abundant near vertical veining containing chlorite,								
		anhydrite, pyrite, chalcopyrite, magnetite, epidote and patches of								
		K-spar								
		A few more fractured sections starting to appear - e.g. 555'-568'.								
		571'-572' Abundant purple fluorite.								

GETTY MINES, LIMITED

Hole Number: K-76-4

DRILL HOLE LOG

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		586'-587' K-spar moderately abundant.								
		Chalcopyrite especially abundant in some quartz veins - e.g. 584'								
		591' - a 35° fracture, 593' - a 40° fracture.								
		Abundant disseminated chalcopyrite around 612'.								
		618'-621' Anhydrite veining common								
		Some sections quite siliceous - e.g. 634'-637'.								
		At 647' augite phenocrysts become quite distinct.								
		Pyrite continues to be abundant.								
		Magnetite still occurs in occasional veins								
		688' - abundant anhydrite (?), K-spar starts becoming more								
		abundant in places								
		661'-664' Breccia - lighter colored fragments up to approximately								
		1" across. The fragments are also augite porphyritic.								
		Some fracturing at about 15°.								
		Minor moly in places.								
		Rock type and mineralization remains quite consistent.								
		Augite phenocrysts becoming more visible and less altered with								
		depth.								
		712' - reddish brown hematite on a fracture.								
		At approximately 757' the rock becomes lighter green in								
		colour - still an augite porphyry.								
		Anhydrite veins and stringers much more common.								
		Sulphide content seems to decrease somewhat.								
		After about 768' the rock becomes generally darker again but								
		some lighter sections still persist.								
		Augite phenocrysts continue to be distinct.								
		Sulphide content picks up again.								
		780' - probable slip surface at 15° - truncates a 3/4" quartz vein								
		containing pyrite.								
		Chalcopyrite becoming more common again. Especially common								
		in fluoritic sections but also occurs in veins and as disseminations								
		K-spar common in places - especially in areas of abundant quartz								
		veining.								

GETTY MINES, LIMITED

Hole Number K-76-4

DRILL HOLE LOG

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		Fluorite continues to be common.								
		Hematite occurs in some veins. Magnetite still common.								
		Pyrite content probably decreasing slightly.								
871'	875'	FELDSPAR HORNBLENDE PORPHYRY DYKE								
		very sharp contacts.								
		The majority of the phenocrysts are feldspar.								
		A couple of fluorite veins								
		K-spar common in places - especially bordering veins.								
		Pyrite and chalcopyrite very abundant in one 1" fluorite vein.								
		Some magnetite veining.								
875'	887.5'	FINE GRAINED PLAGIOCLASE PORPHYRY ANDESITE								
		Dark with very small (< 1/8") plagioclase phenocrysts - mainly								
		lathlike. In general the phenocrysts are unoriented.								
		Pyrite and chalcopyrite occur in quartz veins and as disseminations								
		Strongly magnetic.								
887.5'	890'	FELDSPAR HORNBLENDE PORPHYRY DYKE								
		mixed with fine grained andesite.								
		Appears to be a near vertical contact.								
		Rock similar to previously but lacking K-spar.								
		Chalcopyrite abundant in places.								
890'	1012'	ALTERED AUGITE PORPHYRY ANDESITE								
		Quartz veining common. Some anhydrite veins also occur.								
		Some purple fluorite - mainly mixed with the quartz.								
		Augite phenocrysts distinct in some places and almost invisible								
		in others.								
		Pyrite content seems to have decreased slightly down the hole								
		while chalcopyrite has increased.								
		Magnetite veining common								
		Moly in places - e.g. 905'.								

GETTY MINES, LIMITED

Hole Number K-76-4

DRILL HOLE LOG

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		935' - gypsum stringers beginning to become common								
		Some shearing at about 30° - eg. 993'.								
		966' - 6" section of quartz, anhydrite, etc ? bounded by chlorite and containing andesite fragments - at 30° to the core axis.								
		Little change to end of hole. Chalcopyrite occurs to the bottom of the hole.								
		END OF HOLE at 1012' - Lost circulation.								

DRILL CORE RECOVERY

TOTAL RECOVERY....87 %.

HOLE NUMBER...K-76-4...

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
0	26'	Cased	
26	28	2.0	0.8
28	33.5	5.5	5.5
33.5	38	4.5	4.1
38	48	10.0	9.6
48	55	7.0	6.0
55	61	6.0	4.2
'1	68	7.0	0.8
[illegible]8	73	5.0	2.8
73	78	5.0	4.8
78	88	10.0	9.2
88	97	9.0	2.0
97	102	5.0	0.2
102	105	3.0	1.2
105	111.5	6.5	6.0
111.5	118	6.5	6.6
118	128	10.0	9.6
128	138	10.0	9.5
138	146.5	8.5	4.4
146.5	152	5.5	5.5
152	156.5	4.5	4.3
156.5	167	10.5	9.5
167	177	10.0	7.2
177	188	11.0	5.5
188	195	7.0	7.0
195	198	3.0	5.0
198	202	4.0	3.2
202	208	6.0	5.5
08	215	7.0	6.0
215	225	10.0	10.0
225	235	10.0	10.0
235	245	10.0	3.0
245	248	3.0	1.4

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
258	266	8.0	0
266	269	3.0	0
269	271	2.0	0
271	310	39.0	Tricone
310	318	8.0	6.0
318	328	10.0	9.6
328	338	10.0	9.9
338	348	10.0	10.0
348	358	10.0	9.7
358	368	10.0	9.6
368	378	10.0	10.1
378	388	10.0	10.0
388	393	5.0	4.6
393	398	5.0	5.0
398	408	10.0	9.9
408	418	10.0	9.9
418	428	10.0	9.9
428	438	10.0	10.0
438	448	10.0	10.0
448	458	10.0	9.9
458	468	10.0	9.7
468	478	10.0	9.8
478	488	10.0	9.9
488	498	10.0	9.9
498	508	10.0	9.9
508	518	10.0	10.0
518	528	10.0	9.7
528	538	10.0	10.0
538	548	10.0	10.0
548	556	8.0	7.3
556	566	10.0	9.2
566	577	11.0	10.3
577	587	10.0	10.0

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
597	607	10.0	10.0
607	615	8.0	7.5
615	625	10.0	10.1
625	636	11.0	10.0
636	646.5	10.5	10.1
646.5	656.5	10.0	10.0
656.5	667	10.5	10.0
667	677	10.0	10.0
677	687	10.0	10.0
687	697	10.0	10.0
697	707.5	10.5	10.1
707.5	717.5	10.0	10.0
717.5	728	10.5	10.1
728	738	10.0	10.1
738	748	10.0	9.8
748	757	9.0	8.8
757	767	10.0	10.0
767	777	10.0	10.1
777	787.5	10.5	10.2
787.5	797.5	10.0	10.1
797.5	808	10.5	10.1
808	818	10.0	9.7
818	828	10.0	9.9
828	838	10.0	10.0
838	848	10.0	10.0
848	858	10.0	9.8
858	868	10.0	9.8
868	878	10.0	9.9
878	888	10.0	9.9
888	898	10.0	9.7
898	908	10.0	9.8
908	918	10.0	10.0
918	928	10.0	9.9

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
938	948	10.0	9.8
948	958	10.0	9.8
958	968	10.0	9.9
968	978	10.0	9.9
978	988	10.0	10.0
988	995	7.0	6.2
995	998	3.0	2.7
998	1008	10.0	10.1
1008	1012	4.0	3.4

GETTY MINES, LIMITED

Hole Number K-76-5

DRILL HOLE LOG

Property.....KEMESS
Location...Omineca Mining Division...B.C.

Grid....Using Kennco DDH KX-2 as Origin
Latitude......0+40 S
Departure....4+40 W

Core Size......NQ
Elev. Collar...5560'
Bearing.......
Dip.........90°
Length.......690'
Horiz. Trace.......
Vert. Trace.......

Starting Date...Aug. 19, 1976
Completion Date. Aug. 22, 1976

Date Logged.......
Logged by....R. Conn

Dip Tests		
Depth	Angle Read	Angle Actual
Collar		

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH.	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
0	26'	OVERBURDEN - Casing	4142	26	30		.021	.004	.05	.010
			4143	30	40		.026			
26'	208'	PORPHYRITIC ANDESITE	4144	40	50		.030	.005	.06	.014
		Plagioclase laths up to 0.5" long, generally unoriented, in a	4145	50	60		.072			
		dark grey matrix.	4146	60	70		.280	.007	.09	.015
		Rock is hard but well fractured.	4147	70	80		.449			
		26-58' Fractures are filled with FeO - all or most of the	4148	80	90		.543	.006	.13	.017
		pyrite is oxidized.	4149	90	100		.302			
		Rock is locally bleached - e.g. 46'-48'	4150	100	110		.201	.003	.11	.012
		Plagioclase laths mainly altered to sericite	4151	110	120		.135			
		47.6' - ¼" FeO stained magnetite vein at 45°	4152	120	130		.248	.004	.09	.015
		58'-62' no core	4153	130	140		.212			
		After 60' pyrite occurs predominantly as fracture fillings in	4154	140	150		.183	.003	.08	.015
		andesite and in quartz veins. Pyrite content about 3-4 to	4155	150	160					
		Pink zeolite common after about 90'.	4156	160	170		.322	.007	.10	.016
		72'-bornite specks in pyrite veinlet.	4157	170	180		.298	.004	.04	.008
		80'- a pyrite veinlet is accompanied by specks of chalcopyrite and	4158	180	190		.195			
		bornite or covellite.	4159	190	200		.205	.004	.08	.011
		89'- Speck of moly ?	4160	200	210		.361			
		Pyrite veinlets are predominantly sub-parallel to the core axis.	4161	210	220		.232	.005	.06	.009
		108'- quartz-pyrite-biotite? veinlet at 30°	4162	220	230		.266			
		Rock is moderately magnetic with magnetite grains locally in	4163	230	240		.261	.006	.12	.016
		pyrite veinlets.	4164	240	250		.478			
		Fractures are generally at 80°-90° to the core axis	4165	250	260		.400	.005	.12	.015
		Up to 158' the rock is hard but well fractured. From 158'	4166	260	270		.215			
		to 180' the rock is mainly gouge - core possibly	4167	270	280		.250	.005	.08	.010

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number K-76-5

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		Following a vertical shear zone containing quartz-zeolite –	4169	290	310	–	.287	.005	.05	.014
		K-spar and pyrite.	4198	310	320		.343	.005	.11	.023
		From 180' to 195' the core is mainly gravel size pieces	4170	320	330		.180	.003	.09	.014
		with short sections of gouge.	4171	330	340		.152			
		158'-160' pyrite as a veinlet with drusy quartz bordering a	4172	340	350		.110	.003	.11	.014
		shear zone.	4173	350	360		.142			
			4174	360	370		.130	.003	.10	.014
208'	426'	FINE GRAINED ANDESITE	4175	370	380		.074			
		Fine grained, dark grey andesite, locally porphyritic -e.g. 284'	4176	380	390		.142	.002	.09	.017
		Core is still gravel size pieces or smaller.	4177	390	400		.150			
		Occasional < 0.1" quartz veinlets at 45°	4178	400	410		.162	.004	.09	.016
		The rock has a fine grained granular texture - possibly a crystal tuff	4179	410	420		.148			
		Zeolites occur locally as fracture fillings	4180	420	430		.214	.004	.14	.018
		228'-234' No core.	4181	430	440		.173			
		Chalcopyrite occurs in minor amounts as minute disseminated	4182	440	450		.128	.003	.11	.015
		specks.	4183	450	460		.161	.007	.10	.010
		Pyrite occurs predominantly as fracture fillings.	4184	460	470		.170			
		Fractures commonly at 40°-60°	4185	470	480		.218	.004	.13	.011
		Core non-magnetic.	4186	480	490		.265	.004	.16	.020
		247' - chalcopyrite blebs in a quartz vein. A dark blue metallic	4187	490	500		.218			
		tarnish on pyrite	4188	500	510		.263	.005	.15	.020
		288'-298' No core.	4189	510	520		.180	.004	.11	.007
		300' - speck of bornite with loose pyrite in gravel.	4190	520	530		.105			
		357' - Speck of bornite with disseminated pyrite.	4191	530	540		.223	.007	.10	.008
		398'-401' Soft rock, chloritic alteration.	4192	540	550		.171			
		Core becomes competent at 400' with a rapid increase in	4193	550	560		.228	.005	.09	.007
		recovery.	4194	560	570		.105			
			4195	570	580		.283	.004	.12	.021
426'	690'	AUGITE PORPHYRY ANDESITE	4196	580	590		.232			
		Gradational contact	4197	590	600		.189	.008	.11	.019
		stubby, euhedral augite phenocrysts.	4199	600	610		.243			
		Anhydrite veining common up to 0.2" thick at variable angles	4200	610	620		.162	.005	.13	.015
		Minor gypsum veining parallel to the core axis.	4201	620	630		.146			

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number K-76-5

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
		Fractures commonly at 80°-90°.	4202	630	640		.172	}.006	.13	.017
		Chalcopyrite appears to be more abundant (still < 1%) occuring	4203	640	650		.148			
		as disseminated specks and blebs with pyrite in gypsum	4204	650	660		.245	.010	.14	.018
		and quartz veins.	4205	660	670		.191	}.009	.12	.007
		Pyrite occurs primarily as stringers and fine disseminations.	4206	670	680		.178			
		Magnetite occurs as fragments in quartz and disseminated in	4207	680	690		.222	.007	.10	.012
		andesite.								
		404' - gouge.								
		408' - speck of moly								
		418'-425' No core								
		Areas of locally aphanitic andesite.								
		431.5' - stringers of hematite in quartz.								
		Chalcopyrite appears to be more abundant from 470' to 550'								
		and appears mainly as blebs in anhydrite (?) veins.								
		491'-492' Anhydrite (?) vein (grey, crystalline, H.=3, good								
		cleavage) containing blebs of chalcopyrite, pyrite and magnetite.								
		506.5' - ½" fault gouge at 50°.								
		513' - slip surface at 30°.								
		After 540' gypsum veins up to ½" thick and at variable								
		angles appear. The gypsum contains no mineralization.								
		576' - A pyrite and intergrown chalcopyrite veinlet (¼") at 30°								
		592'-611' Pink zeolite veining and flooding are abundant.								
		Gypsum and anhydrite veining at random angles still common								
		after 600'.								
		622.5' - ½" K-spar vein at 70°.								
		Magnetite veining is becoming more abundant with depth. Veins								
		vary from microveinlets to stringers in anhydrite and gypsum.								
		Fracturing varies from 90° to 30°.								
		Pyrite occurs mainly as veinlets, locally as disseminations.								
		600'-630' Pyrite content about 1%.								
		652.5'-656' Silicified with K-spar flooding.								
		Pyrite and chalcopyrite becoming less abundant with depth. Chalcopyrite								
		still occuring as small blebs in pyrite veinlets.								

DRILL CORE RECOVERY

TOTAL RECOVERY ...60 %

HOLE NUMBER K-76-5

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
0	26'	Cased	
26	28	2.0	1.5
28	38	10.0	4.7
38	48	10.0	7.7
48	58	10.0	1.0
58	62	4.0	0
62	67	5.0	2.0
67	72	5.0	2.7
[illegible]	78	6.0	3.5
78	88	10.0	2.0
88	98	10.0	5.0
98	108	10.0	1.3
108	118	10.0	3.7
118	128	10.0	1.7
128	138	10.0	1.9
138	148	10.0	2.0
148	151	3.0	2.0
151	158	7.0	0.5
158	168	10.0	2.5
68	170	2.0	1.6
170	178	8.0	6.2
178	188	10.0	5.6
188	198	10.0	8.3
198	208	10.0	3.7
208	210	2.0	2.0
210	213	3.0	1.8
213	218	5.0	2.4
218	228	10.0	0.3
228	234	6.0	0
234	238	4.0	2.4
238	248	10.0	5.5
248	258	10.0	8.0
258	268	10.0	7.5

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
277	288	11.0	5.9
288	298	10.0	0
298	308	10.0	1.2
308	318	10.0	0.5
318	328	10.0	2.2
328	338	10.0	1.3
338	348	10.0	3.0
348	358	10.0	1.6
358	368	10.0	0.6
368	378	10.0	0.5
378	388	10.0	0.2
388	398	10.0	0.7
398	408	10.0	7.6
408	418	10.0	6.3
418	425	7.0	0
425	428	3.0	2.9
428	438	10.0	10.0
438	448	10.0	10.0
448	458	10.0	9.8
458	468	10.0	9.9
468	478	10.0	9.8
478	488	10.0	9.9
488	498	10.0	9.9
498	508	10.0	10.1
508	518	10.0	9.8
518	528	10.0	9.8
528	538	10.0	9.9
538	548	10.0	9.8
548	558	10.0	9.5
558	568	10.0	10.0
568	578	10.0	9.8
578	588	10.0	10.0
588	598	10.0	10.1

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
608	618	10.0	10.1
618	628	10.0	10.1
628	638	10.0	10.0
638	648	10.0	9.9
648	658	10.0	9.8
658	668	10.0	10.0
668	678	10.0	9.8
678	688	10.0	9.7
688	690	2.0	1.9

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH

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GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number K-76-6

Property....KENESS
Location..Omineca Mining Division..-B.C.

Grid...Using Kennco DDH KX-2 as Origin
Latitude......5+60 N.
Departure....4+60 W.

Core Size......NQ
Elev. Collar...5595'
Bearing.
Dip........90°
Length.......708'
Horiz. Trace.
Vert. Trace.

Starting Date...Aug. 13, 1976
Completion Date. Aug. 17, 1976

Date Logged.
Logged by......R. Cann

Dip Tests		
Depth	Angle Read	Angle Actual
Collar		

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH.	ASSAY Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
0	40'	Casing	4075	40	50		.101	?.004	.09	.009
			4076	50	60		.108			
40'	268'	HIGHLY ALTERED ANDESITE PORPHYRY	4077	60	70		.096	?.008	.10	.004
		consists predominantly of sericite, quartz, chlorite and a	4078	70	80		.125			
		pale yellow mineral (to 68') - possibly a clay.	4079	80	90		.110	?.006	.10	.012
		Rock has black specks of possibly secondary biotite.	4080	90	100		.135			
		Plagioclase phenocrysts, trachytic to unoriented, approximately ¼"	4081	100	110		.113	?.007	.10	.006
		long are locally distinct - eg. at 45'-58'.	4082	110	120		.108			
		Rock is extremely friable and crumbles to gravel at slightest	4083	120	130		.098	?.005	.08	.007
		pressure.	4084	130	140		.125			
		Increasing mafic content with depth.	4085	140	150		.108	?.008	.09	.007
		FeO is common on fractures.	4086	150	160		.076			
		Pyrite occurs mainly as a fine crystalline fracture filling with	4087	160	170		.115	?.005	.10	.010
		lesser amounts as disseminations.	4088	170	180		.078			
		Pyrite content probably ≥ 5%. Pyrite locally tarnished.	4089	180	190		.070	?.003	.08	.007
		crystalline pyrite in veinlets locally has an iridescent to dark	4090	190	200		.062			
		grey (Cu?) coating - eg. 92.3', 107', 109'.	4091	200	210		.073	?.003	.09	.006
		Pyrite veinlets up to 0.2" thick.	4092	210	220		.088			
		One or two specks of moly noted with pyrite on fractures.	4093	220	230		.107	?.004	.09	.006
		Large amount of sulphides probably washed away during drilling	4094	230	240		.062			
		because of the crumbly nature of the rock.	4095	240	250		.064	?.004	.09	.006
		Rock non-magnetic.	4096	250	260		.075			
		No FeO staining below 110'.	4097	260	270		.092	?.007	.10	.008
		At 118' a slip surface at 30°.	4098	270	280		.115			
		136' - a speck of moly.	4099	280	290		.143	?.007	.08	.005
		Fractures at random angles.	4100	290	300		.032			

GETTY MINES, LIMITED

Hole Number K-76-6

DRILL HOLE LOG

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		After 160' chlorite and sericite line fractures parallel to the	4101	300	310		.079	?.012	.09	.013
		axis are common.	4102	310	320		.119			
		Talc (pale green, soapy) common in fractures after 160'.	4103	320	330		.085	?.008	.08	.006
		160'-220' pyrite content about 5%.	4104	330	340		.102			
		Blebs of chalcopyrite and bornite at 256'.	4105	340	350		.098	?.006	.09	.005
			4106	350	360		.060			
268'	576'	ALTERED ANDESITE	4107	360	370		.058	?.004	.09	.008
		Competent; chlorite and biotite mottled rock.	4108	370	380		.063			
		Fairly soft with H. = 4.	4109	380	390		.073	?.006	.05	.003
		Sharp contact with friable rock above.	4110	390	400		.047			
		Gypsum (or anhydrite) veins common up to 3/4" thick at	4111	400	410		.055	?.006	.11	.004
		angles from 30°-80°.	4112	410	420		.052			
		Minor 1/4" quartz veins at an angle of about 40°.	4113	420	430		.063	?.008	.10	.004
		Pyrite occurs disseminated throughout and as stringers in	4114	430	440		.078			
		gypsum. Pyrite content about 3%.	4115	440	450		.050	?.010	.11	.008
		Chalcopyrite occurs as 1/4" blebs in gypsum and as fine	4116	450	460		.038			
		grains intermixed with pyrite in gypsum.	4117	460	470		.078	?.008	.13	.003
		Pyrite contains minor intermixed magnetite	4118	470	480		.064			
		281' - gouge at 30°	4119	480	490		.073	?.007	.07	.004
		Common fracture angle at 60°.	4120	490	500		.064			
		288'-297' pink zeolite flooding associated with zeolite veinlets	4121	500	510		.073	?.006	.09	.003
		up to 1/4" thick at angles of 30° or less.	4122	510	520		.032			
		290'-297' fine grained porphyritic rock - possibly a crystal	4123	520	530		.037	?.004	.08	.004
		tuff with euhedral to anhedral plagioclase phenocrysts up to	4124	530	540		.068			
		0.1" long in a dark, fine grained matrix. Unmineralized.	4125	540	550		.062	?.005	.12	.008
		298': 1" gypsum vein parallel to the axis.	4126	550	560		.080			
		At 305.5' a veinlet of moly parallel to a pyrite-gypsum	4127	560	570		.065	?.004	.13	.002
		vein at 45°.	4128	570	580		.063			
		Purple tint to rock at 335' and 339' - probably fluorite.	4129	580	590		.011	?.002	.03	.001
		Gypsum less abundant after 300' but still occurs in fractures.	4130	590	600		.008			
		341.5' - slip surface at 60°.	4131	600	610		.009	?.002	.07	.001
		Chalcopyrite still occurring as fine grains with pyrite	4132	610	620		.021			
		At 361' streaks of a bright red mineral in gypsum.	4133	620	630		.065	?.005	.08	.001

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number: K-76-6

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		Fluorite veining common from 360' on.	4135	640	650		.055	.007	.09	.001
		Plagioclase lathes (up to ½" long) are locally distinct e.g 360',	4136	650	660		.072			
		365.5'	4137	660	670		.100	.005	.08	.001
		Rock still non-magnetic to 380'.	4138	670	680		.069			
		378' - slip surface sub-parallel to the axis	4139	680	690		.065	.006	.07	.001
		Pyrite becoming less common as disseminations with increasing	4140	690	700		.072			
		depth.	4141	700	708		.063	.006	.08	.001
		With increasing depth the rock is becoming increasingly sericitic								
		Zeolite veining at 421' at 30°								
		Rock is still highly altered.								
		Fluorite veins are usually at 90°.								
		451' - 2" fluorite vein								
		Below 400' pyrite still occuring predominantly as veinlets and								
		locally as fine disseminations. Pyrite occurs as disseminated								
		blebs and stringers in fluorite								
		451.5' - ¼" of gouge at 80°.								
		459' - ⅓" pyrite veinlet at 30°								
		462' - ¼" pyrite veinlet at 30°.								
		Chalcopyrite not observed since last report.								
		Core is locally weakly magnetic.								
		Common fracture angle is 70°-80°								
		No fluorite seen after 485'.								
		Core is locally greenish due to epidote								
		From 525' plagioclase laths are vaguely visible - laths are								
		largely altered to sericite.								
		Pink zeolites are becoming more abundant with depth as								
		veinlets.								
		Pyrite less abundant with depth - e.g. 540'-550' approximately								
		1-2 % pyrite.								
		532.5' - 1" gouge at 30°								
		554' - ¼" gouge at 30°								
		561' - 2" of fractured rock and gouge								
		567' - gouge. 575' - gouge at 70°.								

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number K-76-6

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
576'	618.5'	MONZONITE								
		Pink, medium grained with crowded pink plagioclase phenocrysts								
		in a dark pink-brown matrix.								
		Euhedral and subhedral hornblende phenocrysts also abundant.								
		Upper contact - fault at 50°.								
		Lower contact at 75°.								
		Rock becomes darker toward the contact. Minor calcite,								
		gypsum and quartz veinlets and stringers at variable angles.								
		Moderately magnetic.								
618.5'	708'	ALTERED ANDESITE								
		Description as before. Dark, mottled, pale to dark green.								
		Fluorite veins at 670.5' and 681'.								
		Gypsum stringers and veinlets common usually at 70°-90°.								
		Gypsum mainly white, locally brown.								
		Pyrite occurs mainly as veinlets in andesite and fluorite at								
		variable angles.								
		An occasional speck of chalcopyrite in pyrite.								
		Pyrite locally finely disseminated.								
		Core locally weakly magnetic.								
		618.5'-708' pyrite content about 3%.								
		Fractures commonly at 70°								
		638.6' - gouge								
		END OF HOLE								

DRILL CORE RECOVERY

TOTAL RECOVERY......76.1%

HOLE NUMBER....K-76-6..

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
0	40'	Cased	
40	48	8.0	6.5
48	58	10.0	3.6
58	78	20.0	3.5
78	88	10.0	1.6
88	98	10.0	3.9
98	108	10.0	9.3
8	118	10.0	9.0
118	125.5	7.5	3.4
125.5	134	8.5	4.3
134	138	4.0	1.8
138	148	10.0	0.3
148	158	10.0	0.05
158	160	2.0	0.15
160	168	8.0	2.2
168	178	10.0	2.3
178	188	10.0	1.0
188	208	20.0	1.6
08	218	10.0	2.5
218	228	10.0	2.1
228	238	10.0	0.2
238	243	5.0	4.5
243	245.5	2.5	1.3
245.5	246.5	1.0	0.3
246.5	254	7.5	1.2
254	258	4.0	2.6
258	268	10.0	1.9
268	278	10.0	9.6
78	288	10.0	9.9
288	298	10.0	10.0
298	308	10.0	9.8
308	318	10.0	9.7
318	328	10.0	10.0

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
338	348	10.0	9.6
348	358	10.0	10.0
358	368	10.0	10.0
368	378	10.0	9.9
378	388	10.0	9.9
388	398	10.0	9.7
398	408	10.0	9.9
408	418	10.0	10.0
418	428	10.0	10.0
428	438	10.0	9.9
438	448	10.0	9.6
448	458	10.0	10.4
458	468	10.0	10.0
468	478	10.0	10.2
478	488	10.0	10.0
488	498	10.0	10.0
498	508	10.0	9.9
508	518	10.0	10.0
518	528	10.0	9.8
528	538	10.0	10.0
538	548	10.0	9.7
548	558	10.0	10.2
558	568	10.0	9.4
568	578	10.0	10.1
578	588	10.0	10.4
588	598	10.0	10.2
598	608	10.0	9.9
608	618	10.0	9.9
618	628	10.0	10.0
628	638	10.0	9.9
638	648	10.0	10.0
648	658	10.0	9.8
658	668	10.0	9.8

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
678	688	10.0	9.8
688	698	10.0	10.0
698	708	10.0	9.8
End of	Hole		

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number: K-76-7

Property: KEMESS
Location: Omineca Mining Division - B.C.

Grid: Using Kemess DDH KX-2 as Origin
Latitude: 4+68 S
Departure: 4+85 E

Core Size: 10'-359' NQ; 359'-618' BQ
Elev. Collar: 5575'
Bearing:
Dip: 90°
Length: 618'
Horiz. Trace:
Vert. Trace:

Starting Date: Sept. 13, 1976
Completion Date: Sept. 16, 1976

Date Logged:
Logged by: G. Foye

Dip Tests		
Depth	Angle	
	Read	Actual
Collar		

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH.	ASSAY Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
0	10'	OVERBURDEN - Casing	4413	10	20		.021	.008	.18	.008
			4414	20	30		.236			
10'	20'	BLEACHED ANDESITE	4415	30	40	-	.240	.007	.21	.007
		Gradational contact with unbleached rock.	4416	40	60		.332	.008	.10	.009
		Abundant iron oxides - in a lot of places the pyrite has been	4417	60	70		.185	.006	.11	.008
		completely oxidized leaving cavities.	4418	70	80		.120			
		Original character of the rock is completely masked by bleaching	4419	80	90		.062	.004	.08	.004
		Spots of green (chlorite) possibly mark original phenocrysts.	4420	90	100		.107			
		Rock is fairly competent.	4421	100	110		.250	.006	.06	.005
		Minor unoxidized disseminated pyrite.	4422	110	120		.309			
		Appears to be non-magnetic	4423	120	130		.302	.008	.09	.004
			4424	130	140		.122			
20'	618'	ALTERED ANDESITE (AUGITE PORPHYRY)	4425	140	150		.265	.010	.10	.005
		Generally dark green in colour. Well chloritized	4426	150	160		.107			
		Iron oxides continue to about 28'. Cavities (mainly original	4427	160	170		.273	.007	.11	.009
		veins) where pyrite has been completely oxidized common to this	4428	170	180		.074			
		point.	4429	180	190		.060	.001	.09	.001
		Some quartz veining present and the rock in general appears to	4430	190	200		.029			
		be well silicified.	4431	200	210		.052	.002	.05	.001
		By about 80' gypsum in veins and small stringers starts appearing	4432	210	220		.041			
		and quartz veining disappears.	4433	220	230		.450	.021	.16	.005
		In places the rock has a porphyritic appearance - augite porphyry.	4434	230	240		.063			
		Pyrite common especially in veins but also as disseminations and	4435	240	250		.170	.004	.06	.005
		on fractures.	4436	250	260		.076			
		Chalcocite and probably covellite common - especially on fractures	4437	260	270		.076	.002	.06	.003
		A few magnetite veins occur but otherwise the rock is non or	4438	270	278	-	.045			

GETTY MINES, LIMITED

DRILL HOLE LOG

Hole Number: K-76-7

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
		only slightly magnetic.	4439	298	301		.077	.001	.03	.003
		Moly common along some fractures - e.g. 68'-69'.	4440	318	33)		.104	.001	.10	.004
		Fracturing is generally at a fairly high angle - common >40° to	4441	359	370		.084	.004	.07	.003
		the core axis.	4442	370	380		.066	.006	.06	.003
		110' - minor chalcopyrite	4448	380	390		.209	.009	.10	.006
		109' - fault zone - small breccia fragments over approximately 4".	4443	390	400		.115	.009	.09	.004
		At about 115' the rock becomes generally lighter in colour - more	4444	400	410		.112			
		siliceous.	4445	410	420		.239	.010	.12	.005
		Chlorite alteration tends to take the form of a green mottling.	4446	420	430		.088			
		122' - gypsum stringers common.	4447	430	440		.120	.009	.10	.002
		Chalcopyrite occasionally common - e.g. 123'-124'.	4449	440	450		.148	.005	.12	.005
		Rock still broken and crumbly.	4450	450	460		.072			
		Very poor recovery between 138' and 168'.	4451	460	470		.189	.021	.12	.013
		158'-168' moly relatively common.	4452	470	480		.178			
		Starting at about 168' the rock becomes distinctly augite	4453	480	490		.154	.018	.10	.007
		porphyritic with well chloritized phenocrysts.	4454	490	500		.123			
		188' - 2" zone containing abundant pyrite at 30° to the core axis	4455	500	510		.109	.009	.10	.004
		189' - fault zone at 30° containing chlorite and gypsum.	4456	510	520		.109			
		Minor epidote around 192'.	4457	520	530		.066	.004	.09	.005
		198'-218' Very poor recovery.	4458	530	540		.092			
		Pyrite continues to be quite abundant - especially as disseminations.	4459	540	550		.067	.005	.07	.007
		Secondary copper becoming less abundant.	4460	550	560		.094			
		Minor iron oxides reappear around 232'.	4461	560	570		.110	.006	.05	.007
		Veined and disseminated chalcopyrite and moly common around 236'.	4462	570	580		.139			
		233.5' - probable fault zone at 40° - very sheared looking with	4463	580	590		.059	.005	.04	.005
		abundant gypsum.	4464	590	600		.077			
		246' - 3/4" quartz vein	4465	600	610		.119	.012	.08	.013
		268'-333' Very poor recovery - mainly gravel. As in K-76-4	4466	610	618		.158			
		the hole started squeezing and therefore couldn't drill.								
		333'-359' Triconed - no recovery. More competent rock by								
		359' therefore cased to 359' with NQ rods and started								
		drilling BQ.								

GETTY MINES, LIMITED

Hole Number K-76-7

DRILL HOLE LOG

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	ASSAY Mo %	ASSAY Ag (Oz/Ton)	ASSAY Au (Oz/Ton)
		The rock appears to still be an augite porphyry although it								
		is quite altered.								
		Green colouration due to chlorite alteration continues.								
		very abundant anhydrite veining in places -e.g. 333'-387'.								
		Rock generally quite brecciated by veining.								
		378'-393' Vuggy - especially in a horizontal plane.								
		Pyrite continues to be common - in veins and disseminated.								
		Some magnetite in places but not common throughout.								
		Some chalcopyrite - especially associated with anhydrite veining								
		Abundant chalcopyrite in a vein at 387'.								
		Minor pinkish laumontite -associated with anhydrite.								
		By about 390' some of the anhydrite veins have a purplish								
		tinge - Fluorite.								
		434' - reddish brown hematite - with magnetite.								
		397' - 3/4" of gouge at approximately 40°.								
		Some quartz veining starting to appear around 410'.								
		Augite phenocrysts (usually highly altered) visible in only a few								
		places.								
		464' - fault at 30°. 3/4" gouge.								
		470'-485' Anhydrite and fluorite abundant - in places quite								
		intermixed.								
		483'-485' Dark green as well as purple fluorite.								
		Disseminated pyrite now predominating over veined.								
		Becomes quite magnetic by about 470' - veined and disseminated								
		magnetite.								
		Chalcopyrite fairly abundant in fluoritic areas.								
		Occasional grains of K-spar especially near anhydrite - fluorite veins.								
		472' - shear zone at 10° with a 1/2" breccia zone.								
		Around 480' the rock begins to exhibit a different texture. The								
		main rock type appears to be black and aphanitic but there is								
		also abundant paler green and aphanitic rock containing black								
		phenocrysts. In places the pale green rock occurs as rounded								
		and embayed fragments within the black rock.								

GETTY MINES, LIMITED

Hole Number K-76-7

DRILL HOLE LOG

FROM	TO	DESCRIPTION	SAMPLE NUMBER	FOOTAGE FROM	FOOTAGE TO	CORE LGTH	ASSAY Cu %	Mo %	Ag (Oz/Ton)	Au (Oz/Ton)
		A few thin stringers of laumontite occur								
		Quartz veins becoming more common while anhydrite seems								
		to be decreasing in abundance.								
		Probable k-spar more abundant.								
		499'-500' Fault zone at 30°. A generally sheared up zone								
		Specks of moly in a quartz vein around 497'.								
		505' - large bleb of chalcopyrite								
		523' - Moly common.								
		559' - anhydrite - fluorite vein with abundant moly.								
		Rock becomes more and more distinctly augite porphyritic								
		although it is still fragmental appearing in places.								
		Fluorite becoming less common.								
		Minor epidote ? in places.								
		Magnetite content seems to increase.								
		At about 570' the augite phenocrysts seem to disappear or at								
		least become much less distinct.								
		598-599' Abundant quartz.								
		Veined sulphides seem to become more common than disseminated								
		Little change to bottom of hole at 618'. Chalcopyrite occurs								
		to the bottom								
		END OF HOLE								

DRILL CORE RECOVERY

TOTAL RECOVERY ...68 %..

HOLE NUMBER....K-76-7.

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
0	10'	Cased	
10	18	8.0	6.0
18	28	10.0	10.0
28	37	9.0	5.4
37	47	10.0	5.5
47	58	11.0	0
58	68	10.0	8.8
'8	78	10.0	8.2
18	87	9.0	5.5
87	97.5	10.5	5.2
97.5	108	10.5	5.6
108	118	10.0	7.0
118	128	10.0	10.0
128	138	10.0	9.0
138	148	10.0	1.4
148	155	7.0	0.8
155	158	3.0	0.8
158	168	10.0	1.2
168	178	10.0	9.7
178	188	10.0	8.7
188	198	10.0	8.8
198	203	5.0	0.8
203	208	5.0	1.5
208	213	5.0	0.4
213	218	5.0	1.0
218	220	2.0	0.8
220	224	4.0	3.0
224	228	4.0	3.5
28	232	4.0	1.8
232	238	6.0	5.5
238	248	10.0	8.6
248	254	6.0	5.6
254	258	4.0	1.6

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
268	278	10.0	0.8
278	290	12.0	0
290	298	8.0	0
298	301	3.0	0.5
301	308	7.0	0
308	318	10.0	0
318	328	10.0	1.0
328	331	3.0	1.2
331	332	1.0	0
332	333	1.0	0.1
333	359	26.0	Tricened
359	368	9.0	8.0
368	378	10.0	10.0
378	388	10.0	10.0
388	398	10.0	9.8
398	408	10.0	10.0
408	418	10.0	9.7
418	428	10.0	9.8
428	438	10.0	9.7
438	448	10.0	9.9
448	458	10.0	9.8
458	468	10.0	9.8
468	478	10.0	9.7
478	488	10.0	10.0
488	498	10.0	9.8
498	508	10.0	10.0
508	518	10.0	10.0
518	528	10.0	10.0
528	538	10.0	9.9
538	548	10.0	9.8
548	558	10.0	9.7
558	568	10.0	9.9
568	578	10.0	9.9

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH
588	598	10.0	9.9
598	608	10.0	10.0
608	618	10.0	9.7
End of	Hole		

RUN FROM	RUN TO	RUN LENGTH	CORE LENGTH

APPENDIX VI

Lithogeochemical Sample Descriptions

KEMESS PROPERTY

SAMPLE DESCRIPTIONS

Sample No.	D.D.H.	Depth (feet) From	Depth (feet) To	Grid Coordinates Northing	Grid Coordinates Easting	Description
86-19- 1	K-75-1	33	50	100+85	103+26	Lithic tuff w/ 5 mm. Pf x'tals; v.f.g. py diss'ns.; fract'g 45 c.a.
86-19- 2	K-75-1	50	70	100+85	103+26	Lithic tuff w/ 5 mm. Pf x'tals; v.f.g. py diss'ns.; fract'g 45 c.a.
86-19- 3	K-75-1	70	90	100+85	103+26	Lithic tuff w/ 1 cm. Pf crowded pphy texture; incr. py; qz-ca 10 to c.a.
86-19- 4	K-75-1	90	110	100+85	103+26	Lithic tuff w/ 1 cm. Pf crowded pphy texture; incr. py; qz-ca 10 to c.a.
86-19- 5	K-75-1	110	130	100+85	103+26	Lithic tuff w/ 1 cm. Pf crowded pphy texture; incr. py; qz-ca 10 to c.a.
86-19- 6	K-75-1	130	150	100+85	103+26	Andesitic tuff; pyroclastic texture; minor qz, ca & cp vng 10 to 20 c.a.
86-19- 7	K-75-1	150	170	100+85	103+26	Andesitic tuff; pyroclastic texture; minor qz, ca & cp vng 10 to 20 c.a.
86-19- 8	K-75-1	170	190	100+85	103+26	Andesitic tuff; pyroclastic texture; minor qz, ca & cp vng 10 to 20 c.a.
86-19- 9	K-75-1	190	210	100+85	103+26	Andesitic tuff; ep, cl, kf alt'n.; minor 1-2mm.qz, ca & cp vng 10 to 20 c.a.
86-19-10	K-75-1	210	230	100+85	103+26	Andesitic tuff; ep, cl, kf alt'n.; minor 1-2mm.qz, ca & cp vng 10 to 20 c.a.
86-19-11	K-75-1	230	247	100+85	103+26	Andesitic tuff; ep, cl, kf alt'n.; minor 1-2mm.qz, ca & cp vng 10 to 20 c.a.
86-19-12	K-75-3	30	50	101+09	101+19	Lithic tuff w/ 1cm. Pf x'tals in grn/gry gm; 10-20 & 40-45 c.a. shr'g.
86-19-13	K-75-3	50	70	101+09	101+19	Lithic tuff w/ 1cm. Pf x'tals in grn/gry gm; 10-20 & 40-45 c.a. shr'g.
86-19-14	K-75-3	70	90	101+09	101+19	Lithic tuff w/ 1cm. Pf x'tals in grn/gry gm; 10-20 & 40-45 c.a. shr'g.
86-19-15	K-75-3	90	110	101+09	101+19	Lithic tuff w/ ep, cl,ca alt'n.;incr. Pf x'tals; 40-50 c.a. f.f. qz, ca.
86-19-16	K-75-3	110	130	101+09	101+19	Lithic tuff w/ ep, cl,ca alt'n.;incr. Pf x'tals; 40-50 c.a. f.f. qz, ca.
86-19-17	K-75-3	130	150	101+09	101+19	Lithic tuff w/ ep, cl,ca alt'n.;incr. Pf x'tals; 40-50 c.a. f.f. qz, ca.
86-19-18	K-75-3	150	170	101+09	101+19	Lithic tuff w/ py, minor cp; shear zone @ 168'-175' 10-25 c.a.; sec. bi.
86-19-19	K-75-3	170	190	101+09	101+19	Lithic tuff w/ py, minor cp; shear zone @ 168'-175' 10-25 c.a.; sec. bi.
86-19-20	K-75-3	190	210	101+09	101+19	Lithic tuff w/ minor qz-kf alt'n. @ 190'; 10-25 c.a. f.f. of py.
86-19-21	K-75-3	210	230	101+09	101+19	Lithic tuff w/ 1 cm. pf x'tals; dk gry.-black; py and minor cp; 15-25 c.a.
86-19-22	K-75-3	230	250	101+09	101+19	Lithic tuff w/ 1 cm. pf x'tals; dk gry.-black; py and minor cp; 15-25 c.a.
86-19-23	K-75-3	250	270	101+09	101+19	Lithic tuff w/ 1 cm. pf x'tals; dk gry.-black; py and minor cp; 15-25 c.a.
86-19-24	K-75-3	270	283	101+09	101+19	Lithic tuff w/ 1 cm. pf x'tals; dk gry.-black; py and minor cp; 15-25 c.a.
86-19-25	K-75-4	12	30	101+48	99+40	Pf-pphy intrusive(?) w/ 1-2 cm. Pf x'tals in dk. gry gm; ms, py alt'n..
86-19-26	K-75-4	30	50	101+48	99+40	Pf-pphy intrusive(?) w/ 1-2 cm. Pf x'tals in dk. gry gm; ms, py alt'n..
86-19-27	K-75-4	50	70	101+48	99+40	Pf-pphy intrusive(?) w/ 1-2 cm. Pf x'tals in dk. gry gm; ms, py alt'n..
86-19-28	K-75-4	70	90	101+48	99+40	Pf-pphy intrusive contact @ 81'; f.g. diorite to pf-pphy below; f.g. py diss'n.
86-19-29	K-75-4	90	110	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-30	K-75-4	110	130	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-31	K-75-4	130	150	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-32	K-75-4	150	170	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-33	K-75-4	170	190	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-34	K-75-4	190	210	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-35	K-75-4	210	230	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-36	K-75-4	230	250	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-37	K-75-4	250	270	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-38	K-75-4	270	290	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-39	K-75-4	290	310	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-40	K-75-4	310	330	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-41	K-75-4	330	350	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-42	K-75-4	350	370	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-43	K-75-4	370	390	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-44	K-75-4	390	410	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-45	K-75-4	410	430	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.

KEMESS PROPERTY

SAMPLE DESCRIPTIONS

Sample No.	D.D.H.	Depth (feet) From	To	Grid Coordinates Northing	Easting	Description
86-19-46	K-75-4	430	450	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-47	K-75-4	450	470	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-48	K-75-4	470	490	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-49	K-75-4	490	510	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-50	K-75-4	510	530	101+48	99+40	Pf-Hb pphy to pf-pphy andesite; ms-ep-cl alteration w/ f.g. py, minor cp.
86-19-51	K-75-4	530	550	101+48	99+40	Syenodiorite 539'-547'; hornfelsed; py, minor cp; qz-fl-ca veining 35-45c.a.
86-19-52	K-75-4	550	570	101+48	99+40	Pf-pphy andesite; pyritic; ze,gy 15 to c.a.; decrease in ze, kf veining.
86-19-53	K-75-4	570	590	101+48	99+40	Pf-pphy andesite; pyritic; ze,gy 15 to c.a.; decrease in ze, kf veining.
86-19-54	K-75-4	590	607	101+48	99+40	Pf-pphy andesite; pyritic; ze,gy 15 to c.a.; decrease in ze, kf veining.
86-19-55	K-75-5	25.6	50	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-56	K-75-5	50	70	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-57	K-75-5	70	90	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-58	K-75-5	90	110	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-59	K-75-5	110	130	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-60	K-75-5	130	150	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-61	K-75-5	150	170	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-62	K-75-5	170	190	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-63	K-75-5	190	210	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-64	K-75-5	210	230	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-65	K-75-5	230	250	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-66	K-75-5	250	270	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-67	K-75-5	270	290	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-68	K-75-5	290	310	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-69	K-75-5	310	330	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-70	K-75-5	330	350	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-71	K-75-5	350	370	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-72	K-75-5	370	390	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-73	K-75-5	390	410	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-74	K-75-5	410	430	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-75	K-75-5	430	450	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-76	K-75-5	450	470	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-77	K-75-5	470	490	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-78	K-75-5	490	510	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-79	K-75-5	510	530	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-80	K-75-5	530	550	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-81	K-75-5	550	570	102+55	98+77	Augite pphy andesite; prop.to argllc alteration; py, minor cp dissns.; gy,ze.
86-19-82	K-75-5	570	590	102+55	98+77	Contact @ 580'-587'; py-rich lithic tuff w/ subparallel gy, ca f.f.
86-19-83	K-75-5	590	610	102+55	98+77	Augite-Pf pphy andesite; increased fl,gy ca veining w/ depth; py diss'ns 1-5%.
86-19-84	K-75-5	610	630	102+55	98+77	Augite-Pf pphy andesite; increased fl,gy ca veining w/ depth; py diss'ns 1-5%.
86-19-85	K-75-5	630	650	102+55	98+77	Augite-Pf pphy andesite; increased fl,gy ca veining w/ depth; py diss'ns 1-5%.
86-19-86	K-75-5	650	670	102+55	98+77	Augite-Pf pphy andesite; increased fl,gy ca veining w/ depth; py diss'ns 1-5%.
86-19-87	K-75-5	670	690	102+55	98+77	Augite-Pf pphy andesite; increased fl,gy ca veining w/ depth; py diss'ns 1-5%.
86-19-88	K-75-5	690	707	102+55	98+77	Augite-Pf pphy andesite; increased fl,gy ca veining w/ depth; py diss'ns 1-5%.
86-19-89	K-75-6	20	40	102+50	101+58	Augite pphy andesite; leached; no py; ja f.f.; rx has an intrusive look.
86-19-90	K-75-6	40	60	102+50	101+58	Highly fractured augite pphy andesite; leached; no py; ja f.f.

KEMESS PROPERTY

SAMPLE DESCRIPTIONS

Sample No.	D.D.H.	Depth (feet) From	Depth (feet) To	Grid Coordinates Northing	Grid Coordinates Easting	Description
86-19-91	K-75-6	60	87.5	102+50	101+58	Augite-pf pphy andesite; bottom of oxide @ 65'; v.f.g. py diss'ns. 1%.
86-19-92	K-76-1	12	30			See geologic logs and assay summaries in Appendix VI.
86-19-93	K-76-1	90	110			See geologic logs and assay summaries in Appendix VI.
86-19-94	K-76-1	190	210			See geologic logs and assay summaries in Appendix VI.
86-19-95	K-76-1	290	290			See geologic logs and assay summaries in Appendix VI.
86-19-96	K-76-1	350	370			See geologic logs and assay summaries in Appendix VI.
86-19-97	K-76-2	32	50			See geologic logs and assay summaries in Appendix VI.
86-19-98	K-76-2	90	110			See geologic logs and assay summaries in Appendix VI.
86-19-99	K-76-2	190	210			See geologic logs and assay summaries in Appendix VI.
86-19-100	K-76-2	310	330			See geologic logs and assay summaries in Appendix VI.
86-19-101	K-76-2	370	388			See geologic logs and assay summaries in Appendix VI.
86-19-102	K-76-3	26	40	100+72	104+45	See geologic logs and assay summaries in Appendix VI.
86-19-103	K-76-3	60	80	100+72	104+45	See geologic logs and assay summaries in Appendix VI.
86-19-104	K-76-3	100	120	100+72	104+45	See geologic logs and assay summaries in Appendix VI.
86-19-105	K-76-3	200	220	100+72	104+45	See geologic logs and assay summaries in Appendix VI.
86-19-106	K-76-3	300	320	100+72	104+45	See geologic logs and assay summaries in Appendix VI.
86-19-107	K-76-3	400	420	100+72	104+45	See geologic logs and assay summaries in Appendix VI.
86-19-108	K-76-3	500	520	100+72	104+45	See geologic logs and assay summaries in Appendix VI.
86-19-109	K-76-3	600	610	100+72	104+45	See geologic logs and assay summaries in Appendix VI.
86-19-110	K-76-3	690	710	100+72	104+45	See geologic logs and assay summaries in Appendix VI.
86-19-111	K-76-3	790	808	100+72	104+45	See geologic logs and assay summaries in Appendix VI.
86-19-112	K-76-3	900	920	100+72	104+45	See geologic logs and assay summaries in Appendix VI.
86-19-113	K-76-3	1020	1040	100+72	104+45	See geologic logs and assay summaries in Appendix VI.
86-19-114	K-76-4	26	40	99+17	102+92	See geologic logs and assay summaries in Appendix VI.
86-19-115	K-76-4	60	80	99+17	102+92	See geologic logs and assay summaries in Appendix VI.
86-19-116	K-76-4	200	220	99+17	102+92	See geologic logs and assay summaries in Appendix VI.
86-19-117	K-76-4	310	330	99+17	102+92	See geologic logs and assay summaries in Appendix VI.
86-19-118	K-76-4	390	410	99+17	102+92	See geologic logs and assay summaries in Appendix VI.
86-19-119	K-76-4	490	510	99+17	102+92	See geologic logs and assay summaries in Appendix VI.
86-19-120	K-76-4	610	630	99+17	102+92	See geologic logs and assay summaries in Appendix VI.
86-19-121	K-76-4	690	710	99+17	102+92	See geologic logs and assay summaries in Appendix VI.
86-19-122	K-76-4	790	810	99+17	102+92	See geologic logs and assay summaries in Appendix VI.
86-19-123	K-76-4	890	910	99+17	102+92	See geologic logs and assay summaries in Appendix VI.
86-19-124	K-76-4	1000	1012	99+17	102+92	See geologic logs and assay summaries in Appendix VI.
86-19-125	K-76-5	26	40	100+85	101+93	See geologic logs and assay summaries in Appendix VI.
86-19-126	K-76-5	80	100	100+85	101+93	See geologic logs and assay summaries in Appendix VI.
86-19-127	K-76-5	190	210	100+85	101+93	See geologic logs and assay summaries in Appendix VI.
86-19-128	K-76-5	310	320	100+85	101+93	See geologic logs and assay summaries in Appendix VI.
86-19-129	K-76-5	400	420	100+85	101+93	See geologic logs and assay summaries in Appendix VI.
86-19-130	K-76-5	500	510	100+85	101+93	See geologic logs and assay summaries in Appendix VI.
86-19-131	K-76-5	590	610	100+85	101+93	See geologic logs and assay summaries in Appendix VI.
86-19-132	K-76-5	680	690	100+85	101+93	See geologic logs and assay summaries in Appendix VI.
86-19-133	K-76-6	40	60			See geologic logs and assay summaries in Appendix VI.
86-19-134	K-76-6	100	120			See geologic logs and assay summaries in Appendix VI.
86-19-135	K-76-6	200	220			See geologic logs and assay summaries in Appendix VI.

KEMESS PROPERTY

SAMPLE DESCRIPTIONS .

Sample No.	D.D.H.	Depth (feet) From	Depth (feet) To	Grid Coordinates Northing	Grid Coordinates Easting	Description
86-19-136	K-76-6	300	320			See geologic logs and assay summaries in Appendix VI.
86-19-137	K-76-6	400	420			See geologic logs and assay summaries in Appendix VI.
86-19-138	K-76-6	500	520			See geologic logs and assay summaries in Appendix VI.
86-19-139	K-76-6	600	620			See geologic logs and assay summaries in Appendix VI.
86-19-140	K-76-6	680	700			See geologic logs and assay summaries in Appendix VI.
86-19-141	K-76-7	10	30	99+90	104+75	See geologic logs and assay summaries in Appendix VI.
86-19-142	K-76-7	100	120	99+90	104+75	See geologic logs and assay summaries in Appendix VI.
86-19-143	K-76-7	200	220	99+90	104+75	See geologic logs and assay summaries in Appendix VI.
86-19-144	K-76-7	318	331	99+90	104+75	See geologic logs and assay summaries in Appendix VI.
86-19-145	K-76-7	410	430	99+90	104+75	See geologic logs and assay summaries in Appendix VI.
86-19-146	K-76-7	500	520	99+90	104+75	See geologic logs and assay summaries in Appendix VI.
86-19-147	K-76-7	600	618	99+90	104+75	See geologic logs and assay summaries in Appendix VI.
86-19-148	Surface rock sample			102+52	104+17	Grab sample of ferricrete in Camp Creek, 50 metres northeast of camp.
86-19-149	Surface rock sample			102+78	102+70	Grab sample of ferricrete in creek, 110 metres northwest of camp.
86-19-150	Surface rock sample			106+93	107+92	Chip sample across 1m. of qz-py altered lithic tuff; 132/70/SW qz & li f.f.
86-19-151	Surface rock sample			105+66	109+38	Chip sample across 3m. of qz-py altered lithic tuff; 131/73/SW qz & li f.f.
86-19-152	Surface rock sample			105+50	110+18	Grab sample over O/C; same as 151; 033/85/E qz,go f.f.; 098/90 qz, go shearing.
86-19-153	Surface rock sample			105+10	110+84	Chip sample across 2m. of qz-py altered lithic tuff; 004/80/W qz,go flooding.
86-19-154	Surface rock sample			103+57	113+20	Chip sample across 2m. of qz-py altered lithic tuff near basalt dyke contact.
86-19-155	Surface rock sample			103+30	113+10	Chip sample across 2m. of Pf-pphy andesite; 168/48/SW shearing w/ qz, ja.
86-19-156	Surface rock sample			103+10	113+18	Chip sample across 1m. of qz-ms-py altered tuff; 098/77/N shearing w/qz, ja.
86-19-157	Surface rock sample			102+92	113+10	Chip sample across 2m. of qz-ms-py altered tuff; 062/90 shearing w/ qz, ja.
86-19-158	Surface rock sample			101+25	115+87	Chip sample across 1m. of qz-py altered Pf-pphy andesite; 124/90 shearing.
86-19-159	Surface rock sample			100+27	110+93	Chip sample across 2m. of he-rich Pf-pphy andesite; 168/90 shearing w/ go.
86-19-160	Surface rock sample			105+10	106+64	Chip sample across 1m. of qz-py lithic/xtal tuff; 162/67/SW shearing w/ ja.
86-19-161	Surface rock sample			104+07	106+84	Grab sample over O/C; qz-py altered lithic/xtal tuff; same as 160.
86-19-162	Surface rock sample			103+16	106+93	Chip sample across 2m. of qz-ms-py altered lithic tuff; less altered than 161.
86-19-163	Surface rock sample			102+38	107+06	Grab sample of qz-ms-py altered lithic tuff; more he than 162.
86-19-164	Surface rock sample			101+36	107+28	Grab sample of qz-ms-py altered lithic tuff; well fract'd 104/90 w/ he.
86-19-165	Surface rock sample			100+32	106+90	Grab sample of qz-ms-py lithic tuff & green Pf-pphy andesite; 080/80/N shear'g.
86-19-166	Surface rock sample			99+84	107+65	Grab sample of py-rich bladed Pf-pphy andesite; along 15cm. 128/70/SW shear.
86-19-167	Surface rock sample			99+33	107+10	Grab sample of he-rich augite pphy w/ ms, li alt'n.; 062/87/SE shearing w/ go.
86-19-168	Surface rock sample			98+82	106+70	Grab sample of py-rich augite pphy andesite; sample along 124/82/NE shearing.
86-19-169	Surface rock sample			98+44	103+20	Grab sample of he-rich baded Pf-pphy andesite; 146/83/SW shearing w/ ms,qz.
86-19-170	Surface rock sample			106+03	104+56	Grab sample of he-rich Pf-pphy andesite; north of py zone; 174/56/W shearing.
86-19-171	Surface rock sample			96+95	105+50	Grab sample of ja-rich augite pphy; well fract'd and limonitic.
86-19-172	Surface rock sample			97+00	104+26	Grab sample of ms-py altered augite pphy; very he and ja rich; well fract'd.
86-19-173	Surface rock sample			96+88	103+47	Grab sample of qz-ms-py altered augite pphy andesite; very hematitic.
86-19-174	Surface rock sample			95+86	102+17	Grab sample of qz-ms-py altered lithic tuff/ augite pphy andesite; ep,cl alt'n.
86-19-175	Surface rock sample			102+67	98+14	Grab sample of propylitic x'tal tuff; very py; 143/47/SW fault w/ ze, ca.
86-19-176	Surface rock sample			98+56	95+33	Grab sample of limonitic augite pphy andesite; 1% py; 012/90 shearing w/ py.
86-19-177	Surface rock sample			99+09	95+37	Grab sample of py & propylitic augite pphy andesite; ms, ep & cl alteration.
86-19-178	Surface rock sample			100+20	96+37	Grab sample of py and sheared augite pphy andesite w/ ze, ca, py, alteration.
86-19-179	Surface rock sample			101+00	96+20	Grab sample of qz-ms-py altered x'tal tuff; 5% v.f.g. py diss'ns.
86-19-180	Surface rock sample			103+34	97+40	Grab sample of py-rich augite pphy andesite near fault zone; py to go.

APPENDIX VII

Geophysical Instrument Specifications

INSTRUMENT SPECIFICATIONS

Proton Magnetometer

Instrument

Type:	Proton Magnetometer
Make:	Barringer GM - 122

Specifications

Measurement:	Total magnetic field
Range:	20,000 to 99,999 in 12 ranges
Accuracy:	Plus or minus 1 gamma
Sensitivity:	1 gamma
Gradient Tolerance:	600 gammas per foot
Reading Cycle:	3 seconds or 6 seconds

Survey Procedures

Method:	Readings taken every 25 metres along grid lines.
Corrections:	Daily diurnal variations corrected by correlating field data with base station readings.
Station Relationship:	Each station read for intensity of vertical magnetic field.

SPECIFICATIONS

Range:	20,000 to 99,999 in 12 ranges
Accuracy:	± 1 γ through operating temperature range
Sensitivity:	1 γ
Gradient Tolerance:	600 γ/ft.
Power:	12 "D" cells
Power Consumption:	< 50 Joules (Wsec) per reading
Polarizing Power:	0.8 A @ 13.5 V for 1.5 sec. (3 second cycle) 0.8 A @ 13.5 V for 3 sec. (6 second cycle)
Number of Readings with 1 Battery Set:	2,000 - 10,000 depending on type of batteries
Frequency of Readings:	1 every 3 seconds 1 every 6 seconds
Controls:	Pushbutton switch Range Selection switch - Slide switch for 3 and 6 sec. located on P/C Board
Output:	5 digit incandescent filament readout
Indicators:	LED point Lock Indicator - last three digits of the display blanked off when phaselock not achieved Segment Function Indicator - all segments light up to permit visual inspection of the display function

Mechanical:

Instrument:	Dimensions	- 7" X 3.5" X 11" (18 cm X 9 cm X 28 cm)
	Weight	- 8 lbs (3.6 kg) including batteries
Sensor:		Omnidirectional noise cancelling toroidal sensing head
	Dimensions	- 4 7/8" (12 cm) diameter - 4 3/8" (11 cm) height
	Weight	- 3 lbs (1.4 kg)
Ambient Conditions:		Operating Temperature Range - -40°F to 131°F (-40°C to 55°C) Relative Humidity - 0 to 100%
Environmental:		Instrument and sensor case made of high impact plastic

I GENERAL INFORMATION

1.1 Introduction

The MBS-2 is primarily a recording proton precession total field Magnetic Base Station for observatory or exploration, with further applications in mobile, sea or airborne surveys. Besides the internal strip-chart recorder the instrument is equipped with analog as well as 5 digit digital outputs. For mobile applications an external potentiometric recorder is recommended. Analog ranges are switch selectable for 10γ, 100γ, or 1,000γ full scale. The station has a world-wide range and repetition rates between 2 seconds and 10 minutes can be selected, with a time marker set at 10 minutes. Provisions are made for external trigger input, recording inhibit signal and 1 second clock outputs.

The internal batteries provide power for about one week of operation, if moderate repetition rates are used. External power can be supplied for observatory or other extended operation. The MP-2 Portable Proton Precession Magnetometer forms an integral part of the MBS-2 and can be easily removed to be used with optional accessories, in the field portable mode.

1.2 General Information

This manual describes the MBS-2 main frame only. The MP-2 console, which is contained in the MBS-2 as well as the sensor are described in detail in a separate manual # 767 700 "MP-2 Proton Precession Magnetometer". The recorder is described in its own manual, "Instruction Manual, Model 2750 Strip Chart Recorder".

Recorder paper can be obtained through Scintrex Ltd., or directly from Simpson Electric Co. or their representatives.

Care should be taken to prevent severe mechanical shocks to the instrument to avoid damage to the recorder.

The recorder should always be locked as described in the recorder manual (locking lever down) during shipment and handling. This prevents the chart drive from slipping out and damaging the window during a possible impact.

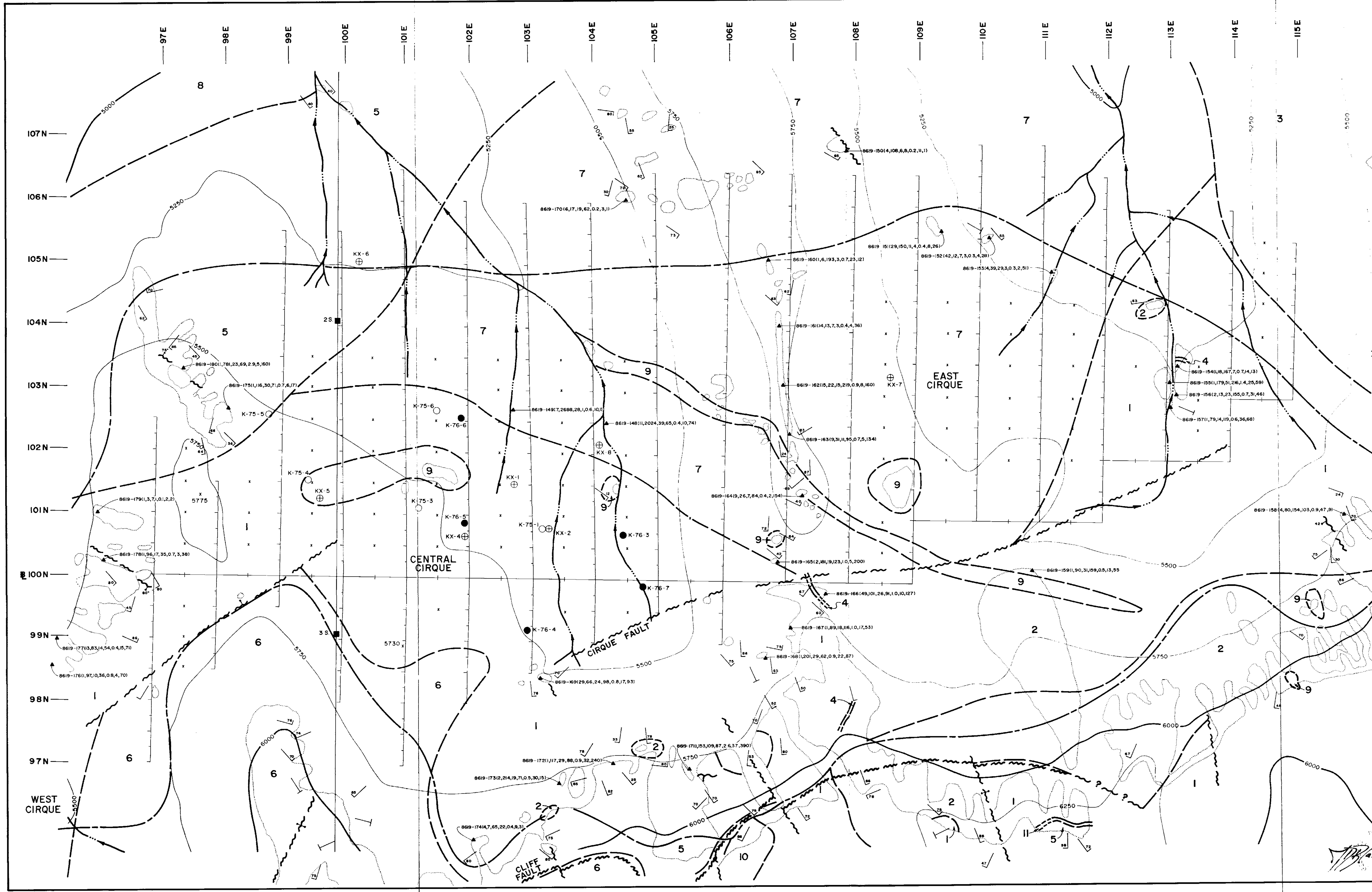
II

SPECIFICATIONS

Resolution	1 gamma.
Total Field Accuracy	± 1 gamma over full operating range.
Operating Range	20,000 to 100,000 gammas in 25 overlapping switch selectable steps.
Gradient Tolerance	Up to 5,000 gammas/metre.
Sensor	Shielded, noise-cancelling dual coil.
Sampling Rate	Internal Control: Switch selectable every 2, 4, 10, 30 seconds or 1, 2, 10 minutes. External Control: Manual command or by external clock at any rate longer than 2 seconds. For external trigger, a positive transition from 0 to +4V or greater initiates one reading.
Clock Accuracy and Stability	±10 ppm over full temperature range.
Visual Outputs	5 digit Light Emitting Diode numerical display lasting 0.1 seconds in automatic recycle mode and 1.7 seconds in manual mode. Internal strip chart recorder with 65 mm. chart width and 100 or 600 mm/h chart speed. Inkless recording. Switch selectable at 10, 100 or 1,000 gammas full scale.
External Outputs	5 digit, 1-2-4-8 BCD, DTL, TTL compatible (2 loads) with 0.5 msec., 5 V pulse for synchronization of MBS-2 and external recorder. Analogue recorder output of 1 V at 1 mA max. Switch selectable for 10, 100 or 1,000 gammas full scale.

Time Marker	A 1.5 second pulse every 10 minutes generates a time mark on the internal or on external analogue recorders. For an external analogue recorder, a switch to ground is provided (NPN transistor, 40 V max., 250 mA max.). No side pen is required for continuously writing recorders as the pen returns to zero at every event mark.
Sensor Cable	50 m length is standard.
Power Requirement	The internal batteries of the MP-2 (8 "D" cells) are used to power all functions of the MBS-2. This power source lasts approximately 80 hours at 25°C and a once per minute sampling interval. An external 10 to 32 V DC supply may alternatively be used. Current drain is approximately 0.9A during polarize time and 35 mA during stand-by, depending upon supply voltage.
Battery Test	Digital readout of normalized internal battery voltage activated by touching switch.
Operating Temperature Range	Console: 0 to 50°C Sensor : -35 to 50°C.
Dimensions	Console: 140 mm. x 310 mm. x 390 mm. Sensor: 80 mm. diameter x 150 mm. length. Tripod : 130 mm. extended length.
Weights	Console: 7.7 kg. Sensor with Cable : 5.5 kg. Tripod: 1.5 kg.

Shipping Weight	Approximately 18 kg.
Optional Accessories	Sensor monopod, harness, sensor backpack and 2 m. sensor cable allow field portable survey use of MP-2 magnetometer.



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,333

27°
Mag North
N

LEGEND

LOWER TO MIDDLE (?) JURASSIC

Omineca Intrusions

- 11 Leucocratic feldspar hornblende porphyry
- 10 Quartz plagioclase porphyry
- 9 Feldspar hornblende porphyry and crowded feldspar hornblende porphyry
  - 9a Feldspar hornblende porphyry
  - 9b Crowded feldspar hornblende porphyry
- 8 Plutonic rocks
  - 8a Quartz monzonite
  - 8b Granodiorite

UPPER TRIASSIC

Takla Group

SAVAGE MOUNTAIN FORMATION

- 7 Undivided, mainly crystal tuff, minor hornfels, lithic tuff, quartz bearing feldspar porphyry dykes
- 6 Lithic tuff
- 5 Crystal tuff
- 4 Basaltic dykes
- 3 Bladed feldspar porphyry tuff-breccia
- 2 Bladed feldspar porphyry
- 1 Augite porphyry

SYMBOLS

- Geological contact (defined, inferred)
- Fault (inclined, vertical, inferred)
- Jointing (inclined, vertical)
- Outcrop, subcrop
- Gossan boundary
- Stream
- Contour lines
- Claim post, unsurveyed boundary
- Grid line
- KX-4 Diamond drill hole (Kennco Explorations, 1968-71)
- K-75-2 Diamond drill hole (Getty Mines Ltd., 1975)
- K-76-3 Diamond drill hole (Getty Mines Ltd., 1976)

ar	Argentite	cp	Chalcopyrite	mg	Magnetite
as	Arsenopyrite	ep	Epidote	mp	Mariposite
ba	Barite	ga	Galena	py	Pyrite
bx	Breccia	gr	Graphite	qz	Quartz
ca	Calcite	he	Hematite	sp	Sphalerite
cl	Chlorite	mc	Malachite	sx	Sulphide

▲ 8619-148(11,2024,39,65,0.4,10,74) Rock sample location, sample no. (Mo/p.p.m., Cu/p.p.m., Pb/p.p.m., Zn/p.p.m., Ag/p.p.m., As/p.p.m., Au/p.p.b.)

SCALE

0 50 100 150 200 250 metres.

To accompany a report by J.D. Blanchflower, November, 1986.

MINOREX CONSULTING LTD.
GEOLOGICAL CONSULTANTS, KAMLOOPS, B.C.

EL CONDOR RESOURCES LTD.
VANCOUVER, BRITISH COLUMBIA

GEOLOGICAL AND LITHOGEOCHEMICAL PLAN

KEMESS PROPERTY

OMINECA MINING DIVISION, B.C.

Technical work by:	J.D. BLANCHFLOWER	N.T.S.:	94E/2
Drawn by:	T.Q./T.	Scale:	1:2,500
Date:	NOVEMBER, 1986	Figure No.:	6

LEGEND

Stream

Topographic Contour Lines (250ft. interval)

Claim Post, Unsurveyed Claim Boundary

Grid Line

Soil Sample Station; Gold (p.p.b.)

KX-4 Diamond Drill Hole (Kennco Explorations, 1968 to 1971)

K-75-2 Diamond Drill Hole (Getty Mines Ltd., 1975)

K-76-3 Diamond Drill Hole (Getty Mines Ltd., 1976)

Contour Lines- Gold (p.p.b.)

100
250
500
750
1000
1250
1500

SCALE

0 50 100 150 200 250 metres

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,333

To accompany a report by J.D.Blanchflower, November, 1986.

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GEOCHEMICAL PLAN
GOLD (p.p.b.)

KEMESS PROPERTY
OMINECA MINING DIVISION, B.C.

Technical work by:	J.D.BLANCHFLOWER	N.T.S.:	94E/2
Drawn by:	T.Q./T.	Scale:	1:2,500
Date:	NOVEMBER, 1986	Figure No.:	7

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,333

LEGEND

Stream

5000 / 5250 Topographic Contour Lines (250ft. interval)

Claim Post, Unsurveyed Claim Boundary

Grid Line

7 15 Soil Sample Station: Silver (p.p.m.)

KX-4 Diamond Drill Hole (Kennco Explorations, 1968 to 1971)

K-75-2 Diamond Drill Hole (Getty Mines Ltd., 1975)

K-76-3 Diamond Drill Hole (Getty Mines Ltd., 1976)

Contour Lines - Silver (p.p.m.)

0.5
1.0
1.5
2.0
3.0
4.0
5.0

SCALE

0 50 100 150 200 250 metres

To accompany a report by J.D.Blanchflower, November, 1986.

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GEOCHEMICAL PLAN
SILVER (p.p.m.)
KEMESS PROPERTY
OMINECA MINING DIVISION, B.C.

Technical work by: J.D.BLANCHFLOWER		N.T.S.:	94E/2
Drawn by: T.Q./T.		Scale:	1:2,500
Date: NOVEMBER, 1986		Figure No.:	8

27°
Mag. North
N

LEGEND

Stream

5000 / 5250 — Topographic Contour Lines (250ft. interval)

Claim Post, Unsurveyed Claim Boundary

Grid Line

Soil Sample Station: Copper (p.p.m.)

KX-4 — Diamond Drill Hole (Kennco Explorations, 1968 to 1971)

K-75-2 — Diamond Drill Hole (Getty Mines Ltd., 1975)

K-76-3 — Diamond Drill Hole (Getty Mines Ltd., 1976)

Contour Lines - Copper (p.p.m.)

100
200
300
400
500
1000
1500

SCALE

0 50 100 150 200 250 metres

To accompany a report by J.D. Blanchflower, November, 1986.

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VANCOUVER, BRITISH COLUMBIA

GEOCHEMICAL PLAN
COPPER (p.p.m.)

KEMESS PROPERTY
OMINECA MINING DIVISION, B.C.

Technical work by:	J.D. BLANCHFLOWER	N.T.S.:	94E/2
Drawn by:	T.Q./T.	Scale:	1 : 2,500
Date:	NOVEMBER, 1986	Figure No.:	9

27°
Mag. North
N

LEGEND

Stream

5000 / 5250 Topographic Contour Lines (250ft. interval)

Claim Post, Unsurveyed Claim Boundary

Grid Line

Soil Sample Station; Zinc (p.p.m.)

KX-4 Diamond Drill Hole (Kennco Explorations, 1968 to 1971)

K-75-2 Diamond Drill Hole (Getty Mines Ltd., 1975)

K-76-3 Diamond Drill Hole (Getty Mines Ltd., 1976)

Contour Lines - Zinc (p.p.m)

50, 75, 100, 150, 200, 300, 400

SCALE

0 50 100 150 200 250 metres.

To accompany a report by J.D.Blanchflower, November, 1986.

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VANCOUVER, BRITISH COLUMBIA

GEOCHEMICAL PLAN
ZINC (p.p.m.)
KEMESS PROPERTY
OMINECA MINING DIVISION, B.C.

Technical work by:	J.D. BLANCHFLOWER	N.T.S.:	94E/2
Drawn by:	T.Q./T.	Scale:	1 : 2,500
Date:	NOVEMBER, 1986	Figure No.:	10

LEGEND

Stream

5000 / 5250 Topographic Contour Lines (250ft. interval)

Claim Post, Unsurveyed Claim Boundary

Grid Line

Soil Sample Station: Molybdenum (p.p.m.)

KX-4 Diamond Drill Hole (Kennco Explorations, 1968 to 1971)

K-75-2 Diamond Drill Hole (Getty Mines Ltd., 1975)

K-76-3 Diamond Drill Hole (Getty Mines Ltd., 1976)

Contour Lines - Molybdenum (p.p.m.)

20, 40, 60, 80, 100, 150, 200

SCALE

0 50 100 150 200 250 metres

To accompany a report by J.D.Blanchflower, November, 1986.

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GEOCHEMICAL PLAN
MOLYBDENUM (p.p.m.)
KEMESS PROPERTY
OMINECA MINING DIVISION, B.C.

Technical work by:	J.D.BLANCHFLOWER	N.T.S.:	94E/2
Drawn by:	T.Q./T.	Scale:	1:2,500
Date:	NOVEMBER, 1986	Figure No.:	11

To accompany a report by J.D. Blanchflower, November, 1986.

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GEOCHEMICAL PLAN ARSENIC (p.p.m.)

KEMESS PROPERTY
OMINECA MINING DIVISION, B.C.

Technical work by:	J.D. BLANCHFLOWER	N.T.S.:	94E/2
Drawn by:	T.Q./T.	Scale:	1 : 2,500
Date:	NOVEMBER, 1986	Figure No.:	12

LEGEND

(stream symbol)	Stream
5000 / 5250	Topographic Contours (250ft interval)
(claim post symbol)	Claim Post, Unsurveyed Claim Boundary
(grid line symbol)	Grid Line
KX-4 ⊕	Diamond Drill Hole (Kennco Explorations, 1968 to 1971)
K-75-2 ○	Diamond Drill Hole (Getty Mines Ltd., 1975)
K-76-3 ●	Diamond Drill Hole (Getty Mines Ltd., 1976)

Instrumentation: Barringer GM 122 Proton Magnetometer
Scintrex MBS-2 Magnetometer Base Station

Datum Subtracted: 58000 Gammas

Line Interval: 100 Metres

Station Interval: 25 Metres

Personnel: D.M. Windsor

▲ Base Station Location

✳ Forced Reading

Survey Dates: September, 1986

Contour Interval:

200	2500
400	3000
600	3500
800	4000
1000	4500
1500	5000
2000	5500

SCALE

0 50 100 150 200 250 metres.

To accompany a report by J.D.Blanchflower, November, 1986.

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EL CONDOR RESOURCES LTD.
VANCOUVER, BRITISH COLUMBIA

GEOPHYSICAL PLAN
GROUND MAGNETICS
KEMESS PROPERTY
OMINECA MINING DIVISION, B.C.

Technical work by:	J.D. BLANCHFLOWER	N.T.S.:	94E/2
Drawn by:	T.Q./T.	Scale:	1 : 2,500
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