1979 REPORT ON THE

GEOLOGY, GEOCHEMISTRY AND DIAMOND DRILLING

OF THE

BZT CLAIMS

HOODOO CREEK

VANCOUVER MINING DIVISION

N.T.S. 92 N/5E

LAT. 51° 21' LONG. 125° 30'

OWNED BY

AMAX OF CANADA LIMITED

OPERATED BY

UTAH MINES LTD.

BY

J. R. DEIGHTON

UTAH MINES LTD.

MARCH 18, 1980

WORK PERFORMED BETWEEN JULY 28, 1979 AND MARCH 1980



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INTRODUCTION

SUMMARY

In 1979 Utah Mines Ltd. optioned the Hoodoo Creek property, BZT 1-9 claims totaling 103 units, from Amax Potash Limited. Field checking of Amax's mapping and additional mapping and sampling, mainly to the east and south of Amax's mapping, was done during June and July and August of 1979.

Camp construction and the drilling of two NQ diamond drill holes from a prepared setup took place from August to October, 1979.

The mapping and sampling program confirmed the presence of several mineralizing events which could indicate the presence of porphyry Cu-Mo, Mo or Cu deposits associated with the high level, young (Miocene) intrusive complexes at Hoodoo Creek.

Two diamond drill holes were angled at -45° @ 000° for 269.7 meters and -60° @ 291° for 243.2 meters to intersect and test two of the target areas from the same drill setup. The first hole was designed to test a highly altered and pyritized quartz porphyry unit carrying weak molybdenite mineralization. The second hole was designed to intersect the fringe of a large breccia unit. The first hole failed to test its target because as the target was reached the hole entered a post-mineral dyke and followed it for the duration of the hole. The second hole, designed to intersect the breccia fringe was successful although it did not reach its desired depth because of drilling difficulties. This hole intersected mineralized breccia containing mineralized (molybdenite) fragments.

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LOCATION, TOPOGRAPHY

The Hoodoo Creek Mo-Cu property consists of nine claims (BZT 1-9) totaling 103 units centered on Hoodoo Creek, an eastern tributary of the Klinaklini River which drains the Mt. Waddington Range of the Coast Mountains. Hoodoo Creek is located approximately 32 km north of the head of Knight Inlet at latitude 51°21'N, longitude 125°39'.

The property lies in rugged terrain near the heart of the Coast Range Mountains. Relief is 1800 m (6000 feet); elevations range from 300 m (1000 feet) on lower Hoodoo Creek to 2150 m (7000 feet) on the ridge near the northeastern corner of the property. Hill slopes and tributary streams are precipitious, and the lower reaches of Hoodoo Creek are incised to form an inaccessible canyon.

Tree line is about 1700 m elevation with mature stands of fir and spruce at lower elevations. On north-facing slopes, permanent snow and icefields extend down as far as 1400 m elevation.

Total precipitation has been estimated as 150 cm per year rain equivalent. Snowfall has been estimated as 500 cm per year above elevation 1000 m, making snow avalanches a major hazard at higher elevations.

LOGISTICS

Access to the property is gained by fixed wing aircraft from many points, the most convenient being Campbell River (Gulf

Air Aviation) to Kyuquot Logging Camp at the head of Knight Inlet, then by helicopter to the claims. Helicopters are available at Port McNeill (Okanagan), Port Hardy (Vancouver Island), Bella Coola (Transwest), and Campbell River (Okanagan). During part of the summer a helicopter was available at Knight Inlet (Transwest). A logging road extends 30 km from Knight Inlet to the southwestern portion of the property.

Bi-weekly boat service to Knight Inlet is available from Vancouver by Coast Ferries Ltd. to move heavy or large pieces of equipment. A barge service to Knight Inlet is also available for transporting of large pieces of equipment but the service is not run on a regular basis, only when fuel for the logging operations is needed, by North Arm Transportation.

Groceries and camp supplies were obtained in Campbell River from North Island Co-op and Cigas, and flown in by Gulf Air Aviation or Okanagan Helicopters to Knight Inlet or the property.

Kyuquot Logging Camp supplied food, accomodation, and ground transportation of men and materials from the dock to the end of the road during the mobilization and demobilization of drill equipment. They also supplied accomodation during the camp construction phase.

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CAMP

Very few campsites are available on this steep-sided property. A mapping camp consisting of three tents (two 10x12 and one 14x16) was established at the Amax campsite at the 1650 meter elevation east of Main Gully. No water was available at the campsite. Water was obtained by collecting rainwater off tents and by melting snow in a tarpaulin.

The drill campsite was constructed at the 1800 meter elevation west of Main Gully. The camp consisted of five 14x16 wooden floored tents on aluminum or wood frames and one wooden framed 10x12 tent. Water was pumped from the nearest creek (450 meters) at the 1760 meter elevation.

CLAIMS DATA

Claims and units are shown on Figure 1 below. Pertinent claims data are tabulated below:

CLAIM	UNIT NOS.	TOTAL NO. OF UNITS	LOCATION DATE	DATE RECORDED	EXPIRY DATE
BZT#1	1-3,14-19, 25-27	12	July 2/77	July 28/77	July 28/80
2	1-4,13-20, 24-31	20	July 2-4/77	July 28/77	July 28/80
3	1-5,12-21, 23-27	20	July 2-4/77	July 28/77	July 28/80
4	1-16	16	July 2/77	July 28/77	July 28/80
5	1,2,15,16	4	July 2-5/77	July 28/77	July 28/80
6	1,2,15-18	6	July 2-5/77	July 28/77	July 28/80
7	1-3,14-16	6	July 2-6/77	July 28/77	July 28/80
8	1,2,15,16	4	July 2-5/77	July 28/77	July 28/80
9	1-5,12-21	15	July 1-2/77	July 28/77	July 28/80



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PREVIOUS WORK

Kennco Explorations staked the Hoodoo North prospect in 1966 on the strength of a prominent oxidized zone enhanced by anomalous silt geochemistry. Twenty-eight claims were staked of which the westerly 20 were subsequently dropped and the remaining eight, approximately coincident with the present BZT #7 claim, were maintained by payments-in-lieu and by geological and geochemical assessment work (Ass. Rept. #1668 in 1968). This work demonstrated the presence of several porphyry plugs and pyritic breccias and coincident Mo-Cu-Pb-Zn-Ag soil anomalies.

Since 1968, the Hoodoo North prospect has been held by several other individuals, but no additional assessment work has been applied.

Part of the Hoodoo South showing was examined for Amax by Silversides in 1965 as the 46 claim McGowan MoS2 property. No work was recommended by Silversides and the claims subsequently lapsed.

Amax staked the property in July, 1977 during a regional reconnaissance program. In 1978 Amax carried out a preliminary mapping and sampling program over BZT 5, 6, 7, and 8 mineral claims at 1:5000 scale.

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GEOLOGY

REGIONAL GEOLOGY

The property lies near the centre of the Coast Crystalline Belt, a tectonic belt of gneisses, schists and granitoid rocks emplaced during the Mesozoic and Early Tertiary.

At Hoodoo Creek, an intrusive/extrusive complex of Miocene age is superimposed on the older Coast Crystalline Belt. This complex lies within a 70 km long northwesterly trending belt of Miocene-Pliocene rocks which extends from Franklin Glacier to Mt. Silverthrone. At Franklin Glacier, 16 km to the southeast, a quartz monzonite stock (6.9 m.y.) and younger porphyry dykes (3.2 m.y.)1 intrude comagmatic rhyolitic and feldspar porphyry tuffs, agglomerates and flows². Between Franklin Glacier and Hoodoo Creek, pyritic Miocene stocks with traces of molybdenite are largely buried by ice fields which cover the ridge between Hoodoo Creek and Scimitar Glacier. In the Mt. Silverthrone area, 50 km northwest of Hoodoo Creek, undated but obviously pre-glacial columnar basalt and ash flows occur over an area of 300 sq. km and attain a maximum thickness of 1000 m. Small basalt plugs and minor quartz porphyry dykes were noted near the toe of the Klinaklini Glacier between Hoodoo Creek and Mt. Silverthrone.

- 1. G. Woodsworth, G.S.C., pers. comm.
- 2. B. McKnight, 1965, Tertiary Igneous Activity in the Franklin Glacier Area; B.Sc. Thesis, Univ. of B.C.

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PROPERTY GEOLOGY

Map checking and additional rock and soil geochemical sampling was done on the area mapped by Amax in 1978, largely on BZT 3, 5-8 claims. Mapping, rock and soil geochemical sampling was done on a 1:5000 scale on an additional area to the east of Amax's 1978 mapping on BZT 9 claim and to the south on BZT 1 and parts of BZT 2 and 4 claims.

Survey control over BZT 9 was provided by a metric contoured orthophoto at 1:5000 scale done by McElhaney Survey Corp. Mapping and sampling control for the BZT 1, 2, and 4 claims was provided by 1:10,000 scale metric contoured topographic map used by Amax and surveyed road maps copied from Kyuquot Logging.

Rock Units

The rock units mapped this year are essentially the same as those described by Amax in their 1978 report. Two new units have been added and two units have been subdivided. The descriptions below are in part reproduced from the report by C. J. Hodgson "Hoodoo Creek Property 1978" of Amax Vancouver office.

Fifteen mappable units in the claim area are described below in order of apparent age.

Units 1-2 are all members of the Coast Plutonic Complex and are unrelated to mineralization. Coarse grained garnetquartz-feldspar-biotite <u>gneiss</u> (Unit 1) of Mesozoic or earlier age occur in restricted areas in the Main Gully and the easternmost creek on the property.

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<u>Hornblende diorite</u> and quartz diorite (Unit 2) is coarse grained, equigranular and unfoliated to gneissic. It forms massive outcrops near the ridgetop of the Main Gully and in the area covered by BZT 9 claim, but is highly fractured and rubbly weathering in the gullies south of the Main Gully below elevations of 1700 meters.

<u>Quartz monzonite</u> (breccia) (Unit 3) has been identified in only three outcrops near the western edge of the map area. It is coarse grained, leucocratic and massive-weathering. The outcrops, in part, are brecciated with a light grey matrix and by small white quartz veins (widely spaced).

<u>Intrusive breccia</u> (Unit 4 and 4a) occupies a circular area 1 km in diameter, with a "tail" to the southwest down Candy Gully. Its circular shape suggests that it was intruded as a pipe. The rock has an overall greenish-grey cast, and consists of 3 mm to 1 meter diameter subangular fragments of diorite, gneiss, felsic volcanics, rare quartz porphyry and purple volcanics, in a grey to grey-green clastic matrix. Near its margins the unit is commonly intensely pyritized. Pyrite tends to surround fragments, suggesting that the rock was largely unconsolidated at the time of pyritization. The unit has been divided into two sections.

Unit 4a is the coarse breccia unit with fragment sizes larger than 2 cm (size range is from 2 cm to 1 meter). The matrix is grey to greenish-grey amorphous siliceous rock which may or may not be sericitized to varying degrees. Pyrite is common as disseminations throughout this unit and may form up to 10 percent of the whole rock in places.

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Unit 4 is the fine breccia with the majority of the fragments less than 2 cm in diameter. In the central portion of this unit the fragment size becomes 1-3 mm. The matrix is a grey or greenish-grey amorphous siliceous rock which may or may not be sericitized in part. Pyrite as grains within the matrix occurs but is generally less than one percent. Malachite as individual layered grains was found in one small outcrop within the central portion of this unit.

Quartz monzonite (quartz-feldspar-biotite-porphyry) of Unit 5 outcrops over much of East Gully and parts of South and Main Gullies. The stock is believed to pre-date the intrusive breccia (Unit 4), but evidence is inconclusive. It mainly consists of prominent quartz, feldspar and biotite phenocrysts in a fine grained, pale green groundmass. Lower down in East Gully the unit is sub-porphyrytic, with minor quartz and/or feldspar phenocrysts in a grey, medium-grained, groundmass (Unit 5a).

<u>Dacite dykes</u> (Unit 6) form a prominent swarm in South Gully and below elevation 1600 m in Main Gully. These dykes are characteristically dark blue-grey, with feldspar and rare quartz phenocrysts in a flinty, siliceous matrix. Very minor pyrite and chalcopyrite occur as disseminations and on fractures in a few dacite dykes.

On the ridge top above Main Gully, a blue-grey feldspar porphyry stock (flow?) is tentatively correlated with the dacite dykes. Correlation is far from certain, since the stock is some distance away from the dyke swarm, and contains no sulphides. <u>Dacite breccia</u> (Unit 7) of variable description outcrops in a number of small isolated areas. It is characterized by the presence of angular diorite fragments in a blue dacite groundmass. The largest occurrence, in South Gully, contains very large diorite blocks surrounded by pyritic dacite matrix. The breccia in Main Gully also contains abundant pyrite (10-15 percent). The two lower breccias in East Gully contain traces of disseminated pyrite and chalcopyrite. The upper breccia contains no sulphides and no apparent intrusive matrix (possibly a fault breccia?). The breccia in Candy Gully also carries disseminated sulphides (3-4 percent pyrite).

Rusty weathering, sericitic <u>quartz porphyry</u> (Unit 8) forms a stock on the ridgetop above Main Gully and in the Main Gully. Detailed mapping in an unnamed gully between Main and West Gullies indicates that pyritic quartz porphyry dykes are fairly abundant in the breccia near the intrusive contact. The rock contains 5 percent 2-3 mm quartz eyes, and 5 percent disseminated pyrite in a fine grained sericitic groundmass. The rock is largely leached of pyrite on surface. Minor amounts of disseminated molybdenite are seen in the quartz porphyry in Main Gully as well as molybdenite in small narrow quartz veinlets in the same area.

"Bughole" quartz porphyry dykes (Unit 9) are the most distinctive dykes on the property. Six or eight such dykes form a northwesterly-trending swarm 500 m wide and at least 2 km in strike length. Individual dykes are remarkably continuous along strike. Dips range from 55°N to vertical, and widths from 2 to 10 m. The dykes consist of large,

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prominent quartz phenocrysts and blebs of leached kaolinite after feldspar in a creamy rhyolitic matrix. Up to one percent disseminated pyrite is present. Surface manganese staining is assoicated with these dykes.

<u>Feldspar-hornblende-(quartz) porphyry dykes</u> (Unit 10) postdate "Bughole" quartz porphyry dykes and form a dense swarm in the same general area. These dykes trend predominantly northwest with moderate to steep northeasterly dips. A subordinate dyke trend is northeast and vertical to easterly dips. Widths range from 1 to 50 m. The dykes are somewhat variable in composition and texture. Most consist of feldspar[±]hornblende[±]quartz phenocrysts in a felspathic groundmass. Narrow dykes commonly consist of fine grained, buff felsite and display slabby jointing parallel to the contacts. Clay alteration of feldspars (though not as intense as in "Bughole" porphyries) and chlorite alteration of mafics is usually present. Manganese staining varies from weak to intense. No sulphides are present in these dykes.

There appear to be two or more ages of the feldspar-hornblende-(quartz) porphyry dykes, as seen in the Main Gully at 1850 elevation. The first sequence of dykes are cut by and partly ingested by the quartz porphyry of Unit 8 while the second dyke set clearly cuts Unit 8 and all other units. No field distinction could be found between the two different ages of the dykes.

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Lahar breccia (Unit 11). For lack of a better name, this unit has been called a lahar breccia, although it looks like a poorly consolidated conglomerate with very little fine material. The unit forms a prominent capping unit on the ridge north of BZT 3 and 6. It is about 600 m thick and covers an oval shaped area of some 4 square km. Its eastern contact is essentially vertical (?), whereas crude stratification within the unit is subhorizontal. Although localization of the breccia within a collapse caldera structure is suggested by Amax, it is believed that this unit may be the exhalitive equivalent to Unit 4, and that it has been laid down on a preexisting land surface.

The unit consists of subrounded cobble to boulder sized fragment mainly of quartz diorite and gneiss of the Coast Range Complex and very minor amounts of granite and white siliceous rocks that were not seen on the property, cemented by a sandy clastic matrix. Amax suggests that units 4 through 10 are represented in this unit, but during our mapping no boulders of these units were positively identified.

Near the eastern margin conspicuous cobbles of quartz feldspar porphyry to granite containing disseminated and veined pyrite and chalcopyrite were found in the unit. These boulders make up less than one-half percent of the unit. No source rock for these boulders was seen on the Hoodoo Creek property although Amax geologists suggest that they may be related to Unit 8, the pyritic quartz porphyry.

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Amax reports shingly weathering bands of grey, fine grained, air-fall tuff up to 5-10 m thick are locally present. They are not shown on the geology map but one such band was reported in talus at elevation 1640 m, and another was reported to be seen in a cliff face at elevation 2050 m. These bands are probably quite continuous along strike.

The lahar breccia, may in fact grade downwards and lateraly into the intrusive breccia of Unit 4 near the western edge of the mapping on the north side of Hoodoo Creek. Insufficient outcrop or hazardous conditions (steepness of slope) precluded gathering of data to solve this question. If this unit and Unit 4 are related then the lahar breccia must be the higher portion of the breccia unit in which no intruded mineralization or matrix penetrated (ie. it may be the extruded equivalent to Unit 4)

Andesite dykes (Unit 12) are observed to cut all units except a late feldspar porphyry stock. These dykes are generally narrow, no more than 5 m wide, but very continuous along strike. In contrast to earlier dykes, their predominant trend is northsouth. In contrast to dacite dykes, which they in part superficially resemble, these dykes are unmineralized and are granular rather than flinty. Dykes of basaltic composition are also included in this unit.

<u>Feldspar porphyry</u> (Unit 13) forms a small stock in lahar breccia (and intrusive breccia?). It consists of feldspar (+minor biotite) phenocrysts in a grey-green fine grained groundmass. Epidote blebs and Coast Range guartz monzonite

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fragments are common in the vicinity of Candy Gully. Feldspar porphyry dykes in the vicinity of West Gully were mapped as Unit 13 but may belong to Unit 10.

<u>Rhyolite breccia</u> (Unit 14). This breccia unit contains fragments with an average grain size of less than 1 cm. The fragments may be of any rock type from acidic to diorite gneiss, contained in a light green aphinitic to quartz feldspar (biotite) porphyry matrix. The quartz eyes and white feldspars in the matrix are anhedral and 2-3 mm in size. The unit may relate in part to Unit 9, the "Bughole" quartz porphyry but generally lacks the pyrite content.

Andesitic pyroclastics and flows (Unit 15). This unit is exposed in the lower slopes of the West Gully on the north side of Hoodoo Creek. The unit consists of massive flows (?) and pyroclastics of andesitic composition. Less than one percent pyrite is disseminated throughout the unit. The unit may in part be the exhalitive equivalent of the matrix of Unit 4(?) as there appears to be a gradational change southwards downslope from Unit 4 to Unit 15 (the breccia to the pyroclastics). The southern contact of this unit was not seen because of the treacherous nature of the slope.

Geology of the North Side of Hoodoo Creek

The main intrusive and mineralizing events at Hoodoo Creek occur on the north side of Hoodoo Creek. Here several stocks, dykes and breccias of Tertiary age intrude into the Coast Range Complex of gneisses, diorites and granodiorites. The geology of South Side of Hoodoo Creek will be discussed in a later section of the report. The following remarks will deal with the geology on the North Side of Hoodoo Creek.

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A quartz monzonite stock of unknown dimensions (Unit 3) appears to be the first intrusion into the Coast Range Complex (units 1 and 2) on the property. This intrusion is seen in Candy Gully and the creek immediately to the west. The stock appears to be brecciated on a large scale with individual fragments being one meter or greater in size. The matrix of the breccia is fragmented quartz monzonite or smokey white quartz veins. No sulphide mineralization is associated with this intrusion.

After the emplacement of the above quartz monzonite stock, the relationship of several intrusive events becomes somewhat questionable. Crosscutting evidence between different units are not conclusive as they are seen to cut one another.

Unit 4, the intrusive breccia unit, may be the next large intrusive phase although there is some evidence it may have been emplaced after units 5, 6, and 8. This breccia forms an east-west elongate oval from Main to Candy Gully. Gradational contacts between the intrusive breccia (Unit 4) and the andesitic pyroclastics and flows (Unit 15) exist in Candy Gully and the contacts with the lahar breccia (Unit 11). It is suggested that both these later units may be extrusive equivalents of Unit 4; the andesite pyroclastics and flows (Unit 15) being made up largely of the matrix of Unit 4, while the lahar breccia (Unit 11) is made up mainly of the blown off capping rock that the intrusive breccia pipe now occupies. The disseminated pyrite, minor chalcopyrite, sphalerite, and in one case malachite, found within the matrix of the breccia indicate that the breccia and/or its intrusive stock equivalent at the base of the breccia pipe may contain a copper and/ or molybdenum deposit. This target is probably deep. A test of this target is recommended but other shallower targets should be tested first.

The fragments of white siliceous rock containing molybdenite veinlets and disseminations found within the intrusive breccia indicate that the breccia has broken through a mineralized body containing molybdenum. Further testing of the edges of the intrusive breccia should isolate the source of the mineralized fragments.

The Unit 5, quartz monzonite stock, forms an east-west elongate stock on the southeast margin on the intrusive breccia from Main Gully eastwards for 1000 meters. This intrusive is highly fractured and contains pyrite, chalcopyrite and molybdenite as fracture filling and to a lesser extent in quartz veinlets. Pyrite is the main sulphide present within the intrusive with molybdenite and chalcopyrite forming only a minor constituent. The best mineralization is found in Main Gully between 1350 and 1550 elevation. A copper molybdenite deposit may be associated with this intrusive phase and a test of the Main Creek area of mineralization is planned in 1980.

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Age relationships between Unit 4 and Unit 5 are not distinct or clear cut. Fragments which may be quartz monzonite of Unit 5 are found within the breccia, while at the 1500 meter elevation in Main Gully a sharp contact relationship between Unit 4 and Unit 5 shows that the quartz monzonite intrudes the intrusive breccia.

The dacite dykes of Unit 6 generally form a northwestsoutheast trending swarm cutting many rock units on the north side of Hoodoo Creek. A small stock or large dyke occurs on the northern boundary of the claim block on the ridge to the east of Main Gully. No commercial mineralization appears to be associated with this intrusive phase.

Five small bodies of dacite breccia (Unit 7) are found along or near the southern margin of the quartz monzonite stock (Unit 5). These small stocks all intrude into diorites of the Coast Range Complex and contain minor amounts of sulphides, mainly pyrite with minor chalcopyrite as disseminations and fracture fillings. High geochemical response in copper is associated with these dykes. A possible porphyry copper deposit may be associated with this intrusive phase, but it is probably quite deep and therefore it is given low priority as a target.

A stock of pyritized quartz porphyry (Unit 8) underlies the ridge between Main and Candy Gully. This quartz porphyry is generally quite highly altered with the matrix or feldspars altered to sericite and/or kaolin. The alteration is pervasive. The pyritized quartz porphyry (Unit 8) contains anomalous rock geochemical values in molybdenum and gold. This unit is the main target area for a possible porphyry molybdenum deposit. Drilling on this intrusive is recommended in 1980 to test the molybdenum porphyry theory.

Age relationships between this unit and the intrusive breccia (Unit 4) are uncertain as Unit 4 may contain fragments of quartz porphyry (mineralized molybdenite fragments within the intrusive breccia are believed to come from this unit) but dykes of quartz porphyry are mapped as cutting the intrusive breccia along its northern boundary as well.

Dykes of a "Bughole" quartz porphyry (Unit 9) form a northwest-southeast swarm from Hoodoo Creek in the southeast to the ridge above Main Gully. Minor pyrite is found within this unit and sericitization of feldspars is also common. Manganese staining of surface exposures is also common within this unit. The unit resembles in many respects a similar unit at the Henderson Mine in Colorado. At the Henderson Mine the "Bughole" quartz porphyry is associated with the mineralizing stock. This unit, at Hoodoo, could also be associated with a similar burried stock and mineralizing event. The target, a porphyry molybdenum deposit, is given a lower priority at this stage, until more information is obtained and until access to the property becomes easier.

Unit 10 dykes, feldspar-hornblende-(quartz) porphyry form a northwest-southeast dyke swarm through the property on the northside of Hoodoo Creek. At least two ages of these dykes

are seen, one pre and one post pyritized quartz porphyry (Unit 8). No economic mineralization appears to be associated with these dykes.

Andesitic to basaltic dykes (Unit 12) are found cutting all rock units on the property except Unit 3 and Unit 15. They generally have an almost north-south strike and vertical dips. No economic mineralization is associated with these dykes.

Rhyolite breccias (Unit 14) occur in the eastern portion of the property and form a northeast-southwest series of small breccia pipes. They generally occur up a creek valley that is partially fault controlled. The largest pipe is 100x200 meters in size. Minor amounts of disseminated pyrite in the matrix occurs within the breccias and carbonate alteration on veinlets is found within fault zones close to the breccias.

The rock geochemistry of the pipes is low in all the major elements assayed. A theoretical copper-molybdenum target exists but this target is given a low priority.

A large stock of feldspar porphyry (Unit 13) found at the head of West Gully appears to be the last intrusive event occurring on the property. It forms an elongated north-south mass +1000 meters in length and 600 meters wide. The northern contact of this stock has not been mapped. No sulphide mineralization is associated with this intrusive.

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Some highly oxidized base metal veins occur throughout the property area. These veins, up to 20 cm wide, contain pyrite, chalcopyrite, sphalerite, and quartz. Some gold and silver values are also present within these veins. The veins are found within faults and shears and are characteristic of fault controlled mineralization in that they pinch and swell. Their importance as an economic identity is doubtful other than that similar veins occur around economic porphyry deposits in other places.

Geology of the South Side of Hoodoo Creek

Four days were spent sampling and mapping the roads on the south side of Hoodoo Creek on BZT 1 and parts of BZT 2 and 4.

The geology of the south side of Hoodoo Creek is essentially a quartz monzonite stock (Unit 5) intruding into Coast Range Complex diorite (Unit 1). At and near the contact, breccia zones are found carrying up to five percent pyrite.

The quartz monzonite stock emplacement on the south side of Hoodoo Creek into the Coast Range Complex (Unit 1 and 2) gneisses and diorites to quartz diorites has been partly controlled by faults. Little or no hydrothermac alteration is evident in the Coast Range Complex. The quartz monzonite stock is generally poorly fractured, except close to shatter or fault zones, with joints occurring 1-2 per meter.

-21-

Dyking is quite common in this area although it is not as regular as the dyke swarms on the north side of Hoodoo Creek. Dykes are seen to cut both major rock units, the quartz monzonite, and the diorite.

Quartz monzonite dykes of Unit 5 cut the diorites of the Coast Range near the contact of the two units, but were not generally observed outside the claim area.

Feldspar-hornblende-(quartz) porphyry dykes (Unit 10) were noted cutting both the quartz monzonite and the Coast Range diorites as were dykes of andesite (Unit 12). These two dyke types do not appear to have any preferred strike direction.

Several dacite dykes of Unit 6, some up to 10 meters wide, were noted between the 800 and 900 meter elevations on the middle road of Hoodoo Creek. These dykes cut the diorites of the Coast Range and generally seem to have a preferred strike direction that is northeast-southeast.

One rhyolite dyke, two meters wide, was noted to cut the quartz monzonite near its contact. The rhyolite dyke has been tentatively placed in Unit 9, the "Bughole" quartz porphyry, although it may belong to another unit or be a separate unit altogether.

Mineralization is restricted to the quartz monzonite stock and the breccia zones at the contact. These breccia zones contain up to five percent disseminated pyrite in the matrix with very minor amounts of chalcopyrite seen in places. Mineralization within the quartz monzonite stock is mainly in widely-spaced quartz pyrite, pyrite, quartz molybdenite and/or quartz molybdenite chalcopyrite fracture coatings or veins. Disseminated pyrite is also noted near the contact in the quartz monzonite.

A very spectacular quartz-molybdenite-pyrite-chalcopyrite vein, 10 cm wide, was seen cutting the quartz monzonite near sample VH 91. This vein contains plus 90 percent sulphides of which 50 percent was coarse rosette molybdenite.

No mineralization appears to be associated with any of the dyking.

None of the mineralization on the south side of Hoodoo Creek is thought to be economic at this time, either because the mineralization on the fractures is weak or the fracturing and thus total mineralization is not pervasive enough to make ore.

DIAMOND DRILLING

Two diamond drill holes were drilled at Hoodoo Creek from September 3rd to October 2nd, 1979. The first hole was designed to cut into the quartz porphyry (Unit 8) that contains 5-10 percent disseminated pyrite and minor amounts of molybdenite. The second hole was designed to cut into the pyritized breccia of Unit 4.

The contractor for the diamond drilling on Hoodoo Creek was Canadian Mine Service who used a Longyear Super 38 drill to drill 512.9 meters (1683 feet) of NQ core in the two holes.

Diamond drill hole 79-1, 269.7 meters (885 feet), was drilled from a prepared setup at the 1800 meter level in the Main Gully. The hole was drilled at -45° on a true bearing of 000°. The hole was designed to cut into the pyritized quartz porphyry unit (which contains minor amounts of molybdenite) at the head of the Main Gully.

The results of the hole were disappointing because when the pyritized quartz porphyry unit was reached the hole entered a post mineral dyke and remained within the dyke to the end of the hole. Only a short (13 meter) section of the pyritized quartz porphyry was cut from 143 to 156 meters with very minor amounts of MoS₂ and chalcopyrite present as disseminations and fracture fillings. The molybdenum content of this section in geochemical analyses ranged between 3 and 115 ppm Mo, up to 0.011 percent Mo and between 144 and 850 ppm Cu. The remainder of the hole cut either the Coast Range Complex or dykes of "Bughole" porphyry or feldspar-hornblende-(quartz) porphyry.



Diamond drill hole 79-2, 243.2 meters (798 feet), was drilled from the same setup as 79-1 but was drilled at -60° on a 291° bearing. The hole was designed to cut into the breccia unit (Unit 4) which contains +5 percent pyrite.

The results of this hole are encouraging as the breccia was intersected in the bottom portion of the hole. Fifteen fragments of rock (within the breccia) contained vein or disseminated molybdenite mineralization. The matrix of the breccia also contains pyrite mineralization as disseminations or rims around some fragments. In one section of core, the matrix contained a 5 mm blotch of molybdenite.

The breccia, like the surrounding Coast Range Complex cut in the top of the hole, has vein or fracture filling pyrite, some minor veins of pyrite-chalcopyrite and minor veins of pyrite-sphalerite. This latter mineralization suggests that there is a mineralizing event that comes after the emplacement of the breccia.

The alteration encountered in hole 79-2 in the breccia unit is substantially lower grade alteration than is found on surface in the breccia. The surface alteration of the breccia was mapped as phyllic (sericite pyrite matrix with some silicification) while in the drill core, the grade of alteration is mainly propylitic (epidote, pyrite with minor sericite and silicification). There appears to be no logical explanation for this reverse change in the alteration sequence normally experienced except that of weathering.

-26-

The gneissic granodiorite to diorite rocks of the Coast Range Complex in this drilling are also high in rock geochemical values for the elements assayed. Values in the various elements range as follows:

Cu	30	-	3100	ppm
Мо	1 ·	-	135	ppm
Zn	28 ·	-	9800	ppm
Au	<10 -	-	240	ppb

The only other rock type cut in the diamond drilling done this year was the feldspar-hornblende-(quartz) porphyry (Unit 10). This unit is considered to be post mineral and the rock geochemistry of this unit is significantly lower than the other units in the area. Geochemical values for this unit are as follows:

Cu	10		705	ppm
Mo	1	-	15	ppm
Zn	104	-	1100	ppm
Au	<10	-	10	ppb

Most values in gold are below the detection limit (10 ppb) and only two samples are recorded at the detection limit. Zinc values are generally in the 100-500 ppm with the occasional sample in the higher range (300 to 1100 ppm). Copper values, like zinc, tend to be less than 100 ppm Cu except for one complicated dyke (a dyke in which three variations of the unit are detected) which gives values greater than 100 ppm Cu.

-27-

GEOCHEMISTRY

GEOCHEMICAL ANALYSIS OF THE 1979 DRILLING

Geochemical analysis of the diamond drill core was done on sections of split core from three meter sections, or smaller, if rock types changed. Analysis was done for four elements: copper, molybdenum, zinc, and gold.

The results of the goechemical analysis of the core shows some surprises. Sections of the Coast Range Complex (sheared and shattered) show extremely high geochemical values in most elements. The highest individual analyses in each element are 3100 ppm Cu, 135 ppm Mo, 9800 ppm Zn, and 240 ppb Au. The source of these values must come from some later mineralizing event.

The pyritized quartz porphyry unit (Unit 8) at the head of Main Gully, which was intersected for only 13 meters in drill hole 79-1, was shown to contain weak to moderate molybdenum, zinc, and copper geochemistry that may reflect a halo effect of a buried molybdenum deposit at depth. Molybdenum values ranged from 3 to 115 ppm in the six samples through this section, while copper values ranged between 144 and 850 ppm, and zinc between 285 and 3900 ppm, three of these samples being +1000 ppm Zn. Gold was also detected in some of the samples. Rock geochemistry of the "Bughole" quartz porphyry (Unit 9) is also interesting. Values for the various elements range as follows:

> Cu 26 - 590 ppm Mo 1 - 10 ppm Zn 24 - 1400 ppm Au <10 - 20 ppb

Higher zinc values occur at +100 meter depth in drill hole 79-2 in dykes of the "Bughole" porphyry. These values are all +600 ppm Zn in the two dykes intersected.

Only one gold value exceeds the detection limit of 10 ppb.

No pattern is observed in the copper or molybdenum geochemical values in the drill core for the "Bughole" quartz porphyry because of the lack of sufficient samples.

The intrusive breccia (Unit 4) is another interesting unit geochemically. This unit consistently has values of +10 ppm Mo with only one sample less than 10 ppm Mo. The highest molybdenum value in this unit is 41 ppm.

Copper ranges from 164 to 585 ppm and zinc ranges from 170 to 1750 ppm. Gold values range between <10 ppb and 20 ppb with a 12 meter section assaying greater than 10 ppb, this was the highest consective section of gold values obtained in the drilling.

GEOCHEMISTRY OF SOIL AND SURFACE ROCK SAMPLING

During the 1979 field season three soil lines were run east of the Main Gully to close off Amax's 1978 soil anomaly. Ninety-seven soil samples were collected. Histograms plotted of the assay results show the following threshold and anomalous values in ppm:

	Threshold	Anomalous
Cu	135	300
Mo	8	23
Zn	84	180
Ag	0.2	0.6

These lines closed off the various anomalies that are shown in Amax's 1978 report.

Rock chip samples were collected across the pyritized quartz porphyry (Unit 8) along contour elevations and down creek valleys on Main and the creek immediately west. These latter samples came mainly from Unit 4, the intrusive breccia. Histograms were plotted of the surface rock geochemical data from units 8 and 10 (units with a reasonable number of samples). Results of the histograms show the following threshold and anomalous results in ppm:

Unit 8 Pyritized quartz porphyry:

	Threshold	Anomalous
Cu	88	190
Mo	3 .	10
Zn	70	230
Ag	0.7	1.6



Frequency

ppm Mo (Soils)



40

Frequency
Hoodoo Creek Normalized Frequency Distribution Zinc in Soils Figure 3



Frequency

	Hoodoo Creek Normalized Frequency Distribution Silver in Soils Figure 4	76 72
		68
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ppm Ag (Soils) o		, .

Frequency





Hoodoo Creek Normalized Frequency Distribution Copper in Rock Figure 6



Hoodoo Creek Normalized Frequency Distribution Silver in Rock Figure 8



Unit 1	.0 Fe	eldspar	hornblende	quartz	porphyry:
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*

	Threshold	Anomalous
Cu	28	86
Mo	2	4
Zn	140	320
Ag	0.2	0.4

Rock goechemical values in the remainder of the rock units have the following values in ppm:

		Low	<u>High</u>	Most Common Values
Unit 1 & 2	Cu	5	865	10 - 105
Coast Range Complex	Mo	1	+ 56	1 - 14
(diorite and gneiss)	Zn	20	+1100	50 - 200
(52 samples)	Ag	0.1	4.6	0.1- 1.2
Unit 3	Cu	5	10	5 - 10
Quartz monzonite	Mo	. 2	. 2	. 2
breccia	Zn	40	150	40 - 150
(3 samples)	Ag	0.1	0.6	0.1- 0.6
Unit 4	Cu	6	2850	10 - 165
Intrusive breccia	Mo	2	+ 56	2 - 10
(44 samples)	Zn	20	+1100	20 - 390
	Ag	0.1	20.0	0.1- 1.0
Unit 5	Cu	5	340	5 - 75
Quartz monzonite	Mo	2	+ 56	2 - 4
(26 samples)	` Zn	20	200	20 - 100
	Ag	0.1	1.6	0.1- 1.2

		Low	<u>High</u>	Most Common Values
Unit 6	Cu	5	370	5 - 40
Dacite	Мо	2	4	2 - 4
(15 samples)	Zn	60	+1100	60 - 140
	Ag	0.1	11.0	0.1- 0.8
Unit 7	Cu	195	1100	930 -1100
Dacite breccia	Mo	2	+ 56	16
(4 samples)	Zn	80	200	80 - 200
	Ag	0.8	2.0	
Unit 8	Cu	5	395	5 - 135
Pyritized quartz	Мо	2	+ 56	2 - 8
porphyry	Zn	10	+1100	10 - 200
(109 samples)	Ag	0.1	3.6	0.1- 3.6
Unit 9	Cu	5	265	5 - 130
"Bughole" quartz	Mo	2	42	2 - 6
porphyry	Zn	40	+1100	40 - 150
(18 samples)	Ag	0.1	1.6	0.1- 1.6
Unit 10	Cu	5	34	5 - 135
Feldspar hornblende	Мо	2	48	2 - 5
quartz porphyry	Zn	40	+1100	40 - 330
(54 samples)	Ag	0.1	1.2	0.1- 0.8
Unit ll	Cu	120		
Lahar breccia	Мо	2		
(1 sample)	Zn	405		
	Ag	0.1		

		Low	<u>High</u>	Most Common Values
Unit 12	Cu	5	120	5 - 120
Andesite dykes	Mo	2	4	2 - 4
(10 samples)	Zn	10	860	70 - 130
ι.	Ag	0.1	1.6	0.1- 0.6
Unit 13	Cu	5		
Feldspar porphyry	Mo	2		
(1 sample)	Zn	260		
	Ag	1.2		
Unit 14	Cu	1	175	1 - 15
Rhyolite breccia	Мо	2	6	2 - 6
(7 samples)	Zn	70	820	180 - 190
	Ag	0.1	2.2	0.4- 0.8
Unit 15	Cu	20		
Andesitic flows	Mo	4		
and pyroclastics	Zn	100		
(1 sample)	Ag	0.4		

ANOMALOUS AREAS

Surface chip and rock sample geochemistry show that there are areas that contain a number of anomalous samples. All samples in that area are not anomalous but generally the samples are higher in value.

An area at the head of Main Creek underlain by pyritized quartz porphyry is anomalous in gold and silver with scattered patchy zones of molybdenum and the occasional high in zinc. The Main Gully area from 1250 to 1800 meter elevation is also anomalous in many of the elements assayed. It is anomalous in gold and copper and contains scattered anomalous values in molybdenum and silver. Zinc anomalous values in this area only occur in the head of this creek valley from 1600 to 1800 meter elevations.

The head of the unnamed gully immediately to the west of Main Creek is anomalous in two elements: zinc and silver. It also contains scattered values in copper. This area is underlain by the intrusive breccia with narrow dykes of the pyritized quartz porphyry.

Smaller areas of anomalous values occur in several localities: the head of East Gully, South Gully, Amax campsite, the head of West Gully, and the top of the ridge to the east of the lahar breccia. These smaller areas of anomalous values may be limited in size because of the limited rock exposures or accessability of rock in those areas or by the limited rock type in the area of sampling.

The area at the head of West Gully is anomalous in gold with scattered anomalous values in silver, copper and zinc. The anomalous values all occur in the intrusive breccia unit in this area. The samples generally come from near the contact between the intrusive breccia and the Coast Range Complex.

The head of South Gully has scatterd anomalous values in copper, molybdenum and gold. The anomalous copper values are associated with the small dacitic breccia in the area, while the molybdenum is associated with the quartz monzonite stock. Gold values are associated with both rock units. The area, immediately east of the Amax campsite, is also anomalous. It contains values in zinc and silver along with the anomalous values in copper, molybdenum, and gold. All the samples in this anomalous area were taken by Amax in 1978. The area is underlain by a very fractured zone near or within the contacts of the quartz monzonite stock and dacite breccia (?) with the overlying Coast Range granodiorite.

Scattered anomalous values in copper, molybdenum, zinc, and a few anomalous values in silver occur at the head of East Gully. This area is underlain by the quartz monzonite stock cut by numerous dykes of "Bughole" quartz porphyry and feldspar hornblende quartz porphyry. Most of the anomalous samples from this area are again samples collected by Amax in 1978.

A relatively large, low order, gold anomaly in the pyritized quartz porphyry was found during the rock chip sampling program carried out in 1979. This anomaly is located on the ridge immediately east of the lahar on the northern edge of the claim block.

Scattered anomalous values in many of the elements occur throughout the map area as single sample anomalies. Some of these areas may warrant further geochemical rock chip sampling at a future date but it is not a priority item.

REMARKS

The geological mapping, sampling and drilling program conducted on Hoodoo Creek in 1979 confirmed the presence of several mineralized phases of intrusion present on the BZT claims. Some of these intrusions are anomalous in copper, molybdenum, gold, zinc, and silver.

Five different mineralized intrusive phases occur on the property and give several targets that need further testing. These targets are listed as follows:

- 1) The pyritized quartz porphyry for molybdenum and gold.
- The main body of quartz monzonite on the north side of Hoodoo Creek for copper and molybdenum.
- 3) The intrusive breccia for a deep buried molybdenum and/ or copper deposit.
- 4) The dacite breccias for a deep copper deposit.
- 5) Mineralization associated with the "Bughole" quartz porphyry dykes, a possible "Henderson" type molybdenum deposit at depth.
- 6) The source of the mineralized fragments within the intrusive breccia, once this probable source has been localized.

The drilling program conducted in 1979 was only partially successful as the hole designed to cut the pyritized quartz porphyry failed. The hole entered a post mineral dyke shortly after entering the pyritized quartz porphyry, only a 13 meter intersection was obtained. This intersection showed minor molybdenum (up to 0.012 percent Mo).

-44-

The hole intersecting the intrusive breccia was successful. Fifteen mineralized fragment containing disseminated and vein molybdenite were seen in the core. These fragments show that a molybdenite deposit was breached by the breccia.

512.9 meters (1683 feet) of NQ diamond drilling in two holes was carried out in 1979.

Transportation and communication problems plagued the program in 1979 mainly because of the property location. Several steps should be initiated to make transportation of men and equipment easier and communications better to save time and expense.

- Radio equipped ground transportation capable of loading and moving drill equipment is essential at Knight Inlet.
- 2) The use of large helicopters in moving drill equipment and camp gear to and from the staging area.
- 3) A large multi-channel radio is essential for the drill camp as difficulties in phone communication were constantly encountered in 1979, mainly the ability to contact Vancouver radio, and the heavy traffic on channels.

RECOMMENDATIONS

Utah continue participation in the Hoodoo Creek Mo prospect.

The following targets should be tested in 1980 by drilling:

- a) The pyritized quartz porphyry, one or two holes approximately 1500 feet each from the ridge above Main Gully.
- b) The western edge of the mineralized quartz monzonite on the north side of Hoodoo Creek between the 1350 and 1550 meter elevation in the Main Gully. One hole approximately 1000 feet in length.
- c) The edges of the intrusive breccia from the top of the Main Gully and from 1350 to 1550 elevation in the Main Gully should be tested. The purpose is to find the focal point of mineralized fragments within the breccia, for a later deep test for source of mineralized fragments. Two holes approximately 1000 feet.

Further drilling if results are favourable, and drilling to test the deeper targets that may be associated with the "Bughole" quartz porphyry, the dacite breccias, and the intrusive breccia.

The western portion of the claim group should be mapped when access becomes reasonable ie. as the road progresses to make access to the area.

CERTIFICATION

I, JOHN RAYMOND DEIGHTON, of 3250 West 33rd Avenue, Vancouver, British Columbia, do hereby certify that:

I am a graduate of the University of British Columbia, with a Bachelor of Science Degree in Geology, 1965.

Since graduation I have been engaged in Mineral Exploration in British Columbia, Yukon, Northwest Territories, Washington, Arizona and California.

I am a Fellow of the Geological Association of Canada and of the Canadian Institute of Mining and Metallurgy.

I am a Geologist

Lair El

John R. Deighton Geologist

Vancouver, B. C.

APPENDIX I

CERTIFICATES OF ANALYSIS



MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY:

tart Bielle



BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 TELEPHONE: 984-0221 AREA CODE: 604 TELEX: 043-52597

• ANALYTICAL CHEMISTS

GEOCHEMISTS

• REGISTERED ASSAYERS

ROCKS

CERTIFICATE OF ANALYSIS

TO: Utah Mines Ltd. 1600 - 1050 W. Pender St. Vancouver, B. C. V6E 3S7 CERTIFICATE NO. 51220 INVOICE NO. 33665 RECEIVED Oct.23/79 ANALYSED Nov.6/79

SAMPLE NO -	PPM	PPM	PPB	
	Cu	Mo	Au	
51377	34	8	< 10	
51378	30	24	< 10	
51379	220	110	< 10	D)F(GETVY 5)P
51380	178	18	< 10	
	220	11	< 10	
51382	178	9	< 10	NOV 1 4 1979
51386	280	2	10	
51390	485	11	< 10	UTAH 1
51431	20	4	< 10	EXPLORATION EL VI
51432	44	2	< 10	
51433	108	1	< 10	
51434	26	1	< 10	
51435	182	1	< 10	
51436	310	2	< 10	
51437		10	20	
51438	675	1	< 10	
51439	74	Ţ	< 10	
51440	105	1	< 10 10	
51441	400	10	10	
51442	1000	20	< 10	
51443	1000	23	< 10	
	370	2	20	
51445	330	10	< 10 10	
51667	500	10	< 10	
51//0	390	10	< 10	
51448	350	2	< 10	
51449	410	15	20	
51450	830	12	< 10	
51451	1700	1	10	
51452	21.00	2	<u>< 10</u>	79
51453	5100	2	10	
51454	700	5	< 10	
51455	100	1	< 10	
51450	1000	1	240	
51/50	1300	1	10	
J1430 51450	0/3	10	 ■ 10 ■ 10 	
51/40	023	10	10	
51/61	770	4	20	
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<u>J1402</u>	320		< 10	



MEMBER CANADIAN TESTING ASSOCIATION

Hart Bielle CERTIFIED BY:





212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 TELEPHONE: 9984-0221 AREA CODE: 604 TELEX: 043-52597

CERTIFICATE NO. 50928

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

· REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

PPM Mo 6 2 135 6 2 4 4 4 2 1 3 6 5	Rocks PPB Au <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10 <10	RECEIVED ANALYSED DEC OC UTAH EXPLO	September 27, 1979 October 12, 1979
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CERTIFIED BY:

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	CERTI	FICATE OF AN	ALYSIS	S OCT 8 - 1979	CERTIE	CATE NO.	50720
TO:	Utah Mines Ltd	· ,		HITAH Museeve			33038
	1600 - 1050 W. Vancouver, B.C V6F 357	Pender St.,		EXPLORATION DE	PT. RECEIV	ED	Sept. 18/79
ATTN:	John Deighton	ı - Hoodoo Creek		ROCK	ANALY	SED	Oct. 4/79
SAMP	LE NO :	PPM	PPM	PPM	PPM	PPM	PPB
		Cu	Mo	Pb	Zn	Ag	Au
JF –	1	4	1	1	136	0.4	< 10
	2	14	1	2	124	0.1	< ¹⁰
	4	10	1	1	98	0.4	< 10
1	5	8	1	1	52	0.2	< 10
	6	30	4	<u> </u>	28	0.1	< 10
JF -	7	116	1	2	60	0.6	< 10
JH -	71	200	1	1	78	0.6	< 10
	72	12	1	1	68	0.2	< 10
	73	12	2	4	72	0.4	< 10
		20	2	2	58	0.4	< 10
	75	68	2	2	82	0.4	< 10
	76	200	2	1	54	0.8	< 10
	77	88	2	1	66	0.4	< 10
	78A	340	164	1	32	1.0	< 1 0
		360	265	1	30	1.2	< 10
	78(2)	92	2	1	82	0.4	< 10
	79	38	4	1	78	0.4	< 10
	80	126	36	1	46	0.2	< 10
	81	86	4	4	100	0.2	< 10
	82	54	2	1	80	0.2	< 10
	83(1)	32	1	1	54	0.2	< 10
	83(2)	24	1	1	56	0.2	< 10
	84	44	1	6	66	0.1	< 10
	85	215	4	4	56	0.8	< 10
	86	98	8	2	58	0.4	< 10
	87	20	14	4	36	0.2	< 10
	88	50	1	1	82	0.2	< 10
	89	120	102	1	68	0.8	< 10
	90	6	2	1	64	0.1	< 10
	91(1)	68	4	1	10	0.2	< 10 < 10
	91(2)	94	6	1	12	0.1	10
	92	74	8	1	60	0.2	< 10
	93	128	76	1	44	0.2	- 10
	94	12	2	1	54	0.4	±0 < 10
тн _	95	74	4	2	18	0.7 0 1	• 10 < 10
J11 -		<i>i</i> 7		<u> </u>	TO		

MEMBER CANADIAN TESTING ASSOCIATION CERTIFIED BY: Hart Bielle



TO:



CHEMEX LABS LTD.

12 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 TELEPHONE: 984-0221 AREA CODE: 604 TELEX: 043-52597

• ANALYTICAL CHEMISTS

GEOCHEMISTS

Utah Mines Ltd., 1600 - 1050 W Pender Vancouver, B. C.

V6E 3S7

• REGISTERED ASSAYERS

CERTIFICATE OF ANAL

YSIS	CERTIFICATE NO	. 50128
	TTENNOICE NO.	32557
DECE:	TARCEIVED	Aug. 27/79
0 D00	1979 ANALYSED	Sept. 14/79
DDM SELDEM	7 PPM 1	PDR

ATTN:	V6E 357					ANALYSED	Sept. 14/79
			HOO	D00	<u>- SEP 21 19/9</u>		
SAMPLE NO). :	PPM	PPM	PPM	PPM - 17	PPM	PPB
		Cu	Mo	_РЬ	HTAN ANNES L	Ling	Au
JS 30		14	2	4	EXPLORATION DE	*0-1	<10
31		18	3	4	14	0.1	<10
32		10	1	4	10	0.1	<10
33		22	5	4	18	0.1	<10
34		4	1	2	2	0.1	<10
35		4	2	4	4	0.1	<10
36		164	22	1	46	0.2	<10
37		220	19	1	66	0.1	<10
38		62	3	2	28	0.1	<10
39		106	13	1	40	0.8 ×	<10
40		1.22	13	2	42	0.2	<10
41		78	6	1	32	0.1	<10
42		72	7	2	40	0.1	20
43		122	9	2	44	0.4	<10
44		220	12	2	68	0.1	<10
45		76	2	1	46	0.4	<10
46		152	8	1	58	0.1	10
47		154	5	2	54	0.6	<10
48		124	6	1	56	0.1	90 X
49		72	2	1	48	0.1	<10
50		34	1	2	18	0.1	<10
51	:	20	2	4	22	0.1	20
52		102	7	2	96	0.1	<10
53		88	8	2	58	1.2 🗡	<10
54		54	7	2	58	0.2	<10
55		152	17	2	92	0.2	<10
57		42	4	2	42	0.1	< 10
58		58	5	1	48	0.1	<10
59		58	4	1	52	0.1	20
60		86	3	2	44	0.6	<10
61		200	10	2	46	0.8	<10
62		198	10	2	38	1.0 ¥	<10
63	(60	3	1	56	0.2	<10
64		172	10	1	92	0.1	<10
65		210	14	2	88	0.1	10
66		26	3	2	28	0.1	<10
67		78	10	2	54	0.1	<10
68		156	2	1	78	0.1	<10
69		76	1	2	54	0.2	<10
70	:	116	2	2	72	0.1	<10



MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY:

Hart

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2 BROOKSBANK AVE. NORTH VANCOUVER, B.C. V7J 2C1 CANADA TELEPHONE: 0648 604 984-0221 AREA CODE: TELEX: 043-52597

• ANALYTICAL CHEMISTS • GEOCHEMISTS

REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

Utah Mines Ltd., TO: 1600 - 1050 W. Pender Vancouver- B. C.

CERTIFICATE NO.	50129
INVOICE NO.	32557
RECEIVED	Aug. 27/79
ANALYSED	Sept. 14.79

TTN: J.R.Deighton		HOO I	D00		ANALYSED	
SAMPLE NO. :	PPM	PPM	PPM	PPM	PPM	PPB
	Cu	Mo	Pb	Zn	Ag	Au
JS 71	79	1	1	52	2.0 ¥	<10
72	340	6	1	136	0.1	<10
73	40	1	1	66	3.2 ×	<10
75	118	3	1	116	3.2 🗲	<10
76	94	2	2	74	1.0 *	<10
77	380	4	2	9 8	0.1	10
78	92	6	1	62	0.4	<10
79	154	14	1	106	0.4	<10
80	146	9	1	96	0.2	<10
81	100	7	1	62	0.2	<10
82	70	35	1	58	0.1	10
83	52	13	1	56	0.1	<10
84	44	21	2	34	0.1	<10
85	156	40	4	22	0.8	10
86	240	60	54	700 🛠	1.2 *	<10
87	280	94	2	116	1.0 *	10
88	104	73	2	54	0.1	10
89	106	44 .	2	28	0.1	<10
90	245	175 🔭	1	52	0.1	<10
91	148	36	1	24	0.1	30 ⊁
92	104	6	1	58	0.1	<10
93	84	26	1	42	0.1	<10
94	310	72	1	40	0.4	< 10
95	76	20	1	28	0.1	< 10
96	9 0	54	1	42	1.0 *	<10
97	98	110 🖌	1	28	0.4	10
98	455	225 ⊀	1	54	0.1	<10
99	28	50	6	20	0.2	<10
100	132	150 ¥	2	34	0.1	<10
101	46	77	4	30	0.2	<10
102	48	42	4	58	0.1	10
103	70	30	2	58	0.1	< 10
104	114	54	4	42	0.4	<10
T04			-	. –		



MEMBER CANADIAN TESTING ASSOCIATION

Hart Biell CERTIFIED BY: ...





2 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 TELEPHONE: 604 AREA CODE: 604 TELEX: 043-52597

• ANALYTICAL CHEMISTS

GEOCHEMISTS

TS • REGIS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Utah Mines Ltd. 1600 - 1050 W. Pender Vancouver, B.C. V6E 3S7

CERTIFICATE NO.	49194	, t
INVOICE NO.	31663	3
RECEIVED	July	30/79
ANALYSED	Aug.	6/79

ATTN: HOODOO	CR.		ROCK		ANALYS	ED Aug. 6/79
	PPM	PPM	PPM	PPM	PPB	
SAMPLE NO. :	Cu	Mo	Zn	Ag	Au	
JH - 34	56	2	295	1.2	< 10	
35	30	2	840	0.8	< 10	
36	4	2	260	1.2	10	DECENTER
37	50	4	345	1.6	< 10	N. OEIVAI
38	76	3	<u>595</u>	2.2	< 10	The second se
40	4	1	40	0.4	< 10	ALIC 9 070
40A	4	2	60	0.6	< 10	AUG 0 .579
44	84	2	196	0.4	< 10	HTAH MINTO INTO
45	16	1	1750	0.6	< 10	
46	6	3	320	0.4	<u><</u> 10	EXPLORATION DEPT,
47	370	3	3600	11	20	
48	6	2	290	0.6	< 10	
49	36	2	1100	0.8	10	
50	4	1	78	0.2	< 10	
<u>51</u>	30	2	94	0.4	< 10	
52	6	1	86	0.2	10	
54	4	1	66	0.1	< 10	
55	50	2	240	0.4	10	
56	2	1	96	0.2	< 10	
57	4	1	156	0.6	< 10	
57A	34	2	48	0.4	< 10	
58	20	1	134	0.6	< 10	
59	10	1	34	0.2	< 10	
60	188	2	132	0.8	< 10	
61	12	2	146	0.4	< 10	
62	140	1	430	4.2	< 10	
63	30	2	1050	0.6	< 10	
64	290	1	490	6.2	40	
65	18	1	230	0.6	< 10	
67	6	1	120	0.2	< 10	
68	6	1	148	0.4	< 10	
JH - 69	4	2	220	0.2	10	
GH - 1	570	2	124	0.6	< 10	
2	1350	3	136	3.0	< 10	
3	140	1	104	0.6	< 10	
5	54	1	72	0.1	< 10	
6	74	1	146	0.2	< 10	
7	90	1	720	0.6	< 10	
8	66	1	182	1.6	< 10	
GH - 9	116	1	730	0.8	< 10	



Biell. Han CERTIFIED BY:



ROCK

AREA CODE: 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

. REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Utah Mines Ltd., 1600 - 1050 W. Pender St., Vancouver, B.C. V6E 3S7 ATTN: HOODOO CR.

CERTIFICATE NO.	49195
INVOICE NO.	31663
RECEIVED	July 30/79
ANALYSED	Aug. 6/79

	PPM	PPM	PPM	PPM	PPB	
SAMPLE NO. :	Cu	Мо	Zn	Ag	Au	
GH - 10	12	1	186	0.1	< 10	
11	44	1	138	0.4	< 10	
12	48	3	186	0.6	20	D 5(G 5 [V 5 P]
13	46	1	196	0.1	< 10	
14	150	2	58	0.6	< 10<	
15	4	1	98	0.4	< 10	AUG 8 1979
17	1 92	2	72	0.8	< 10	
18	68	3	46	0.6	< 10	UTAH MINES LTD.
19	1100	15	198	1.6	10	EXPLORATION DEPT.
20	1100	165	172	1.4	< 10	
21	930	16	106	2.0	10	
22	44	4	34	0.4	< 10	
23	50	3	40	0.1	< 10	
24	74	40	28	0.8	10	
25	28	2	134	0.4	< 10	
25A	38	1	70	0.1	< 10	
26	14	1	200	0.2	< 10	
27	48	3	370	0.8	< 10	
28	100	5	270	0.8	20	
29	102	5	240	0.6	< 10	
30	6	1	144	0.1	< 10	
31	6	1	94	0.2	< 10	
32	192	2	96	0.4	10	
33	56	6	54	0.1	10	
34	250	58	138	0.8	20	
36	410	2	4000	2.6	40	
36A	2850	14	4000	20	120	
36FH	1300	6	4000	<u>1</u> 2	60	
37	54	3	465	0.8	< 10	
39	28	10	192	0.4	10	
40	106	1	855	0.4	< 10	
41	1300	36	1250	1.4	10	
42	110	4	810	0.8	10	
43	162	3	290	1.0	< 10	
44	42	1	330	0.4	< 10	
46	44	1	124	0.6	< 1 ⁰	
47	134	2	136	0.6	< 10	
48	44	2	72	0.4	< 10	
46GH48	32	4	116	0.8	10	
GH - 49	12	2	62	0.2	< 10	
				-		



MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: Hart Bielle



212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 TELEPHONE: 984-0221 AREA CODE: 604 TELEX: 043-52597

· ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Utah Mines Ltd., 1600 - 1050 W. Pender St., Vancouver, B.C. V6E 3S7 ATTN: HOODOG CD

CERTIFICATE NO. 49196					
INVOICE NO.	31662	3			
RECEIVED	July	30/79			
ANALYSED	Aug.	6/79			

ATTN: HOODOO (CR.		ROCK	•		ANALYSED Aug. 0779
SAMPLE NO :	PPM	PPM	РРМ	PPM	PPB	
SAMPLE NO	Cu	Мо	Zn	Ag	Au	
GH - 50	14	220	16	1.2	< 10	
51	6	1	58	0.2	< 10	D) 5 (5 5 (V 5)
52	172	5	820	2.0	20	
53	4	1	80	0.6	< 10	
54	12	1	330	0.2	20	AUG 8 079
54A	6	2	198	2.0	< 10	
55	6	1	126	0.4	< 10	UTAH MINES LTD.
56	36	1	178	0.6	10	EXPLORATION DEPT.
57	8	2	68	0.4	10	
58	10	1	162	0.4	< 10	
59	2	1	9 6	0.2	< 10	
60	12	1	94	0.6	20	
61	4	2	2 50	0.6	< 10	
61A	200	1	510	1.2	10	
62	24	1	84	0.4	10	
64	112	2	380	1.4	10	
66	98	2	410	0.8	10	
67	900	3	178	2.2	< 10	
GH - 68	94	2	260	1.0	< 10	
JH - 41	20	4	92	0.4	< 10	



	CHEM	EX L	مناعبين معالمين ABS	LTD.	NORTH VAR CANADA TELEPHONI AREA COD TELEX:	KSBANK AVE. NCOUVER, B.C. V7J 2C1 E: 100000000 984-0221 E: 604 043-52597
• ANALYTICAL CHEMI	STS • GEOC	HEMISTS	• REGISTER	ED ASSAYERS		
CI	ERTIFICAT	E OF A	SSAY		CERTIFICA	te no. 65775
TO: Utah Mines	Ltd. O.W. Bender	¢+			INVOICE N	o. 31643
Vancouver,	B.C.	5.			RECEIVED	July 30/79
ATTN: V6E 3S7 PROJECT: H	oodoo Creek		<u></u>		ANALYSED	Aug. 6/79
SAMPLE NO. :	% Cu	% Мо	% РЪ	% Zn	oz/ton Ag	oz/ton Au
GH 65 HD 11	1.86 0.01	0.010	0.08 0.01	10.9 0.05	12.20 0.22	0.018 <0.003
		GENY AUG 8 97	9 			
	MEMBER			B	Twai	te-s

 \mathbf{V} ASSOCIATION

REGISTERED ASSAYER, PROVINCE OF BRITISH COLUMBIA





CERTIFIED BY:



ANALYTICAL CHEMISTS

• GEOCHEMISTS

· REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

12 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 664-0221 TELEPHONE: AREA CODE: 604 043-52597 TELEX:

	CERTIFIC	CERTIFICATE N	^{0.} 48884					
O: Utah Mines Ltd.,						INVOICE NO.	31445	
	Vancouver, B.C.	ender St	• •	ROCKS		RECEIVED	July 22, 1979	
ATTN:	V6E 3S7			HOODOO		ANALYSED	July 30, 1979	
SAMP		PPM	PPM	PPM	PPM	PPB		
		Cu	Mo	Z <u>n</u>	Ag	Au		
- JC	75	38	1	265	0.1	20		
	76	120	3	170	2.8	<10		
	77	104	3	245	0.2	<10		
	78	92	2	110	0.1	<10 7	a or	
	79	140	1	315	0.1	<10	Fig-	
	80	118	2	196	0.1	20 🖻		
	81	66	1	134	0.6	20	T WS	
	82	78	3	134	20	400		
	83	144	1	855	0.1	<10 (1.4	: _ _ ≥∑	
	84	22	2	70	3.2	480 a-		
_	85	74	3	96	1.2	10		
	86	40	1	390	1.0	<10	53	
	87	112	5	190	2.8	<10		
	88	32	1	28	1.4	<10		
	89	200	1	315	3 0	140		
	90	22	2	22	2.4	<10		
	91	112		320	1 0	<10		
	92	84	2	200	1.6	<10		
	93	102	2	845	0.2	<10		
	94	<u>9</u> 2	7	34	12	<10		
	95	220		805	0.9	<10		
	96	149	2	725	0.0	10		
	97	100	2	725	0.4	10		
	98	156	2	1500	0.1	<10		
	99	170	2	1500	4.0	10		
_	100-	- 24	<u>1</u>	005	0.0	<10		
	101	54 10	1	350	0.1	<10		
	102	10	1	114	0.2	<10		
	102	24	2	385	0.1	<10		
	105	315	1	275	0.2	<10		
	104	605	<u>3/</u>		2.2	<u> </u>		
	105	114	22	20	0.1	<10		
	100	56	53	20	0.1	<10		
	107	120	48	56	0.1	<10		
	108	275	1	130	0.2	<10		
	109	200	1	58	0.4	10	_ <u></u>	
_	110	102	37	26	0.1	20		
	111	66	44	52	0.6	<10		
	112	460	14	170	3.6	<10		
	113	110	2	9 8	0.2	<10		
JC	114	240	7	315	2.2	<10		



CERTIFIED BY: ..

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 212
 BROOKSBANK AVE.

 NORTH VANCOUVER, B.C.

 CANADA
 V7J 2C1

 TELEPHONE:
 984-0221

 AREA CODE:
 604

 TELEX:
 043-52597

. ANALYTICAL CHEMISTS

GEOCHEMISTS

STS • REG

* REGISTERED ASSAYERS

ROCKS

CERTIFICATE OF ANALYSIS

TO: Utah Mines Ltd., 1600 - 1050 W. Pender St., Vancouver, B.C. V6E 3S7 CERTIFICATE NO. 48885 INVOICE NO. 31445 RECEIVED July 22, 1979 ANALYSED July 30, 1979

ATTN:]	HOODOO		ANALYSED	July 30, 1979
	PPM	PPM	PPM	PPM	PPB	
SAMPLE NO. :	Cu	Mo	Zn	Ag	Au	
JC 115	250	14	300	2.2	<10	
116	200	29	148	1.0	<10	
117	265	31	345	1.2	<10	
118	225	59	196	1.0	<10	
119	122	31	124	3.4	<10	
120	260	4	820	0.1	10	
121	120	32	148	2.6	<10	
122	166	19	88	1.8	<10	
123	270	3	380	0.2	20	
124	94	11	110	1.0	<10	E E E E
125	265	41	124	1.6	10	
126	172	5	300	0.6	<10	ez 53
127	22	6	24	3.2	<10	
128	42	12	58	2.6	20	
129	18	5	14	2.0	10	
130	22	5	48	3.2	<10	
131	350	5	1000	3.2	<10	
132	20	3	400	0.1	<10	
133	40	5	1000	1.8	<10	
134	22	6	20	0.2	<10	
135		3	68	0.2	<10	
136	38	6	36	1.8	10	
137	26	2	255	0.4	<10	
138	30	2	86	2.0	<10	
139	16	1	440	0.2	<10	
		- 3		3.0	<10	, <u> </u>
141	30	6	46	4.2	20	
142	64	6	34	3.6	20	
143	14	2	14	0.6	<10	
144	8	5	8	0.8	20	
145	102	6		3.6	20	
146	22	10	14	5.4	~ <10	
147	68	20	36	2.4	10	
148	34	19	78	0.4	<10	
149	38	3	198	0.2	<10	
	12		255		<10	
151	108	4	265	1.2	<10	
152	16	2	210	0.2	10	
153	102	3	860	0.8	<10	
JC 154	94	2	435	1.0	20	;



CERTIFIED BY: Haw

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12 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 TELEPHONE: 984-0221 604 AREA CODE: TELEX: 043-52597

· ANALYTICAL CHEMISTS

GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Utah Mines Ltd., 1600 - 1050 W. Pender St., Vancouver, B.C.

CERTIFICATE NO. 48886 INVOICE NO. 31445 RECEIVED July 22, 1979 979

ATTN:	V6E 3S7		Ŧ	ROCKS		ANALYSED	July 30, 1979
	·	PPM	PPM	PPM	PPM	PPB	
SAMP	LE NO. :	Cu	Мо	Zn	Ag	Au	
JC	155	64	1	500	1.0	<10	
	156	4	2	70	0.1	<10	
	157	4	3	8	1.4	20	
	158	40	2	32	2.4	<10	(<u>La</u>) 21
	159	72	2	66	2.8	<10	
	160	84	1	54	6.8	80	S S N
	161	38	1	610	0.4	<10	高 5 29
	163	90	1	630	1.0	20	
	164	68	6	124	6.4	<10	9 3 78
	165	134	14	9 8	4.4	<10	「「 う えざ
	166	80	8	136	1.4	<10	A 5X
	167	200	7	1800	4.6	<10	
	168	112	7	365	1.8	<10	
	169	9 8	3	520	1.4	<10	
	170	320	4	945	3.0	40	
	171	275	4	2700	2.0	10	
	172	82	5	1800	2.8	<10	
	173	44	3	475	0.2	<10	
	174	8	2	152	0.2	10	
	175	134	4	1200	6.0	<10	
	176	60	5	780	0.6	<10	
	177	178	7	300	1.6	<10	
	178	64	2	184	0.4	<10	
JC	179	168	5	1450	0.6	<10	

NOTE: JC 162 missing



CERTIFIED BY:

Hank

0 G.



MEMBER CANADIAN TESTING ASSOCIATION

CERTIFIED BY: ..



MEMBER CANADIAN TESTING ASSOCIATION





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212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. V7J 2C1 CANADA 984-0221 TELEPHONE: AREA CODE: 604 TELEX 043-52597

• ANALYTICAL CHEMISTS

GEOCHEMISTS

REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

- TO: Utah Mines Ltd., 1600 - 1050 W. Pender St., Vancouver, B.C.
- ATTN: V6E 3S7

CERTIFICATE NO.	48542
INVOICE NO.	31231
RECEIVED	July 13/79
ANALYSED	July 20/79

ATTN: VOL 557	ighton		Hoodoo (Cr.	ANALYSED	July 20/79
	PPM	РРМ	РРМ	PPM		
SAMPLE NO. :	Cu	Мо	Zn	Ag		
JS #1	126	10	94	2.6		
2	86	7	92	1.4		NGUEJN
3	20	1	42	0.6		
4	168	6	164	0.4	12	
5	410	13	250	1.4		111 23:079
6	200	6	320	0.6		JUL LUMAN
7	178	9	295	0.4		TTAH MINES IT
8	56	4	78	0.4		TO ODATION DEP
9	46	7	52	1.0		
10	76	3	88	1.2		
11	62	7	62	4.0 *		
12	104	5	215	1.0		
13	126	5	146	0.6		
14	38	5	76	0.4		
15	114	5	310	0.8		
16	104	5	146	0.2		
17	76	3	124	0.1		
18	64	2	162	0.1		
19	76	6	158	0.4		
20	18	1	42	0.4		
JS #21	300	8	235	0.8		



CERTIFIED BY:





212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 TELEPHONE: 984-0221 AREA CODE: 604 TELEX: 043-52597

· ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

- TO: Utah Mines Ltd.,
 - 1600 1050 W. Pender St., Vancouver, B.C. V6E 3S7

CERTIFICATE NO.	48543
INVOICE NO.	31240
RECEIVED	July 13/79
ANALYSED	July 20/79

	VOL	ാാ	F.Z		
ATTN:	J.	R.	Dei	oht	on.

ATTN: J. R.	Deighton		Hoodoo	Cr.	ROCK	ANALYSED	July 20/79
	PPM	PPM	PPM	PPM	PPB		
SAMPLE NO.	Cu	Mo	Zn	Ag	Au		
JC #1	22	7	22	1.8	20		
2	26	3	20	2.0	20		
3	18	1	270	0.1	< 10	س	Reamon
4	40	25	76	2.4	10		1.651V 5N
5	64	16	60	1.2	< <u>10</u>	ده!	
6	76	16	64	1.0	< 10	* **	
7	94	6	156	2.2	10		JUL 23,979
8	90	2	455	1.0	20	117	FAILER
9	68	4	146	1.2	< 10		AH MINES LTD.
10	136	4	345	1.8	< 10	EA	PLORATION DEPT.
11	122	3	375	1.2	< 10		
12	6 6	2	1800	0.4	< 10		
13	116	2	440	1.0	< 10		
. 14	186	2	955	1.4	< 10		
<u> </u>	240	2	1200	0.2	< 10		
16	205	1	480	0.2	< 10		
17	116	13	198	1.2	< 10		
18	48	3	510	0.2	< 10		
19	126	2	870	0.2	< 10		
20	54	1	515	0.2	< 10		
21	10	1	240	0.1	< 10		
22	62	2	320	0.6	< 10		
23	62	2	430	0.2	< 10		
24	24	1	245	0.2	< 10		
25	68	1	1000	2.0	< 10		
26	46	2	875	0.8	< 10		······································
27	82	4	150	2.8 🐒	< 10		
28	36	2	265	0.4	< 10		
29	186	19	2000	1.2	20		
30	58	5	120	1.2	< 10	•	
31	240	2	325	6.0*	< 10		
32	94	6	400	6.4 术	< 10		
33	320	1	630	4.6⊁	< 10		
JC #34	84	3	1050	1.6	< 10		

CTA

CERTIFIED BY:

tart Bielle



212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 TELEPHONE: 984-0221 AREA CODE: 604 TELEX: 043-52597

ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Utah Mines Ltd., 1600 - 1050 W. Pender St., Vancouver, B.C. V6E 3S7

ASSOCIATION

CERTIFICATE NO.	48544
INVOICE NO.	31231
RECEIVED	July 13/79
ANALYSED	July 20/79

SAMPLE NO. :	РРМ					
SANFLE NU. :		PPM	РРМ	PPM		
	Cu	Мо	Zn	Ag		
JR #1	78	6	60	0.2	•	
2	54	1	90	0.2		
3	138	1	60	4.6 🟌		621V5n
5	26	1	60	0.2	17	
6	120	7	80	1.0		······
7	30	2	75	0.2	J	UL 23 🛷
JR #8	20	1	90	0.1	UTA Expl	H MINE -

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CTA.		IL LR:	.00.
MEMBER	CERTIF	ED BY:	

APPENDIX II

STATEMENT OF COSTS

APPLICATION OF COSTS FOR ASSESSMENT
STATEMENT OF COSTS

PERSONNEL AND WAGES

J. R. Deighton - Senior Geologist			
4 months @ \$2350/month	\$9,400.00		
G. Norman - Geologist			
1 month @ \$2100/month	2,100.00		
K. Orleski - Warehouseman & Handyman			
1-1/2 months @ \$1700/month	2,550.00		
J. Howe - Fieldman & Assistant			
4 months @ \$1000/month	4,000.00		
C. Donders - Draftsman			
3/4 month @ \$1600/month	1,200.00		
P. Zell - Field Assistant			
l month & 2 days @ \$875/month	942.30		
J. Kozak - Field Assistant			
1 month @ \$1075/month	1,075.00		
D. Schmidt - Field Assistant			
1-1/2 months @ \$775/month	1,162.50		
Total Wages		\$22,429.80	
+ 10% Company Benefits		2,242.98	
PERSONNEL & WAGES TOTAL			\$ 24,672.78
SUPPORT COSTS			
Camp Equipment and Supplies			

Lumber, Plumbing Supplies, etc.\$4,481.68Groceries1,398.74Propane504.44

6,384.86

COMMUNICATIONS 815.93 Telephone Ś TRANSPORTATION Barge Service 617.60 Camp \$ Drill Equipment 6,744.97 7,362.57 Total Barge Service Helicopter Support 8,565.40 Camp Drill Mob & Demob 20,687.15 29,252.55 Total Helicopter Support 3,697.80 Fixed Wing Support 143.93 Truck Rental ASSAYING 2,618.72 Rock and Soil Geochemistry 1,014.80 Drill Assaying 3,633.52 Total Assaying FUEL (HELICOPTER) UTAH SUPPLIED 2,934.20 SUNDRY BILLS Kyuquot Logging (Room, Board, Equipment Rentals) 6,933.88 665.35 D. Bragg (Plugger Rentals) DRILLING COSTS 32,823.00 Direct Drilling Costs 26,184.62 Field Costs Total Drilling Costs 59,007.62 TOTAL SUPPORT COSTS \$120,832.21 TOTAL COST OF PROGRAM \$145,504.99

Breakdown of total cost as applied to non-direct drilling costs (Geology, Geochemistry, and Camp Construction), and cost directly applied to drilling: COSTS NOT DIRECTLY APPLIED TO DRILLING \$54,106.35

COSTS APPLIED DIRECTLY TO DRILLING 91,398.64

APPLICATION OF COSTS FOR ASSESSMENT

COSTS NOT RELATED TO DRILLING - to be applied evenly throughout claim block BZT 1-9 (103 units). \$ 54,106.35

COSTS DIRECTLY RELATED TO DRILLING - which can only be applied to "Blue Group". \$ 91,398.64

RED GROUP - BZT 1 & 2 (32 units)		
Record 1 years work at \$100/unit work		\$ 3,200.00
Record 3 years work at \$200/unit work		19,200.00
	TOTAL	\$_21,400.00
Have done \$525.30/unit work as shown above.		
Total work done this year on claim group:		
\$525.30 x 32 =		\$ 16,809.60
Withdraw from P.A.C. account -		4,590.40
TOTAL TO BE APPLIED TO RED	GROUP	\$ 21,400.00
ORANGE GROUP - BZT 3, 5, 6, & 8 (34 units)		
Record 1 years work at \$100/unit		\$ 3,400.00
Record 3 years work at \$200/unit		20,400.00
	TOTAL	\$_23,800.00
Have done \$525.30/unit work as shown above.		

Total work done on claim group:	
\$525.30 x 34 =	\$ 17,860.20
Withdraw from P.A.C. account -	5,939.80
TOTAL TO BE APPLIED TO ORANGE GROUP	\$_23,800.00
BLUE GROUP - BZT 4, 7, & 9 (37 units)	
Record 1 years work at \$100/unit	\$ 3,700.00
Record 9 years work at \$200/unit	66,600.00
TOTAL	\$ 70,300.00
Have done \$525.30 work/unit that can be applied	
to claim block.	
525.30 x 37 =	\$ 19,436.10
Drilling carried out on Blue Group -	91,398.64
TOTAL WORK CARRIED OUT ON BLUE GROUP	\$110,834.74
TOTAL WORK FOR 10 YEAR MAXIMUM AS ABOVE	\$ 70,300.00
EXCESS WORK TO BE CREDITED TO P.A.C. ACCOUNT	\$ 40,534.74

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APPENDIX III

MAJOR BILLS

804) 287-8371 CHARTERED SULT 1600 10.1 DATE TOTAL DISP MEIN HOURS 1PASS SIE ROM τo Addition Care and the RATE RATE STAND-BY EXTRA LANDING MINI TOTAL AMOUNT CHARGE PASSENGERS (PRINT)-PASSE (BIGN) 1.01 8 9 η, 10 0461 ONS OF CHARTER AND CARRIAGE AS SHOWN HIS COPY OF THIS CHARTER TICKET SIDE OF 1 mn

THE OPENINT DWA STOCK SHIT GL AVIATIO G P.O. BOX IAKA CAMPBELL HIVER ST. HONE (004) 287-8371 POLION (PORT HA (PORT HARDY. NINES LT CHARTERED SUITE I CHARTERED 3 TO 12 shallat JO 050 The line of the SU DATE 101 THE OUTPETINE IN DISPATCH TUT DUPMS TOTAL FRQ. HOURS PASE EXT MILES TO PASS HOURS 848 PLES 80 0 1.0 1.4 35.94 25.14 12 pet-00.00 10 107 L 73 10 10 60 123 1.1 6.8 1.1.1.2.2 Children and the Hardwith M. A. 10.00 MILES O RATE 100 MILES OF RATE Susantario P B-18 1 8 advant weltin Helping gatery Mires. RATE HOURS THOURS MANAGENOURS 145 . At RATE Contraction and the HOURS Talk States STAND-BY STAND-BY A CARACTER STATE ייני הדי לאמילא אוויי mar dias EXTRA LANDING EXTRA LANDING MINIMUM FUGHTS MINIMUM FLIGHTS 11-12+1 = 1 + De the starts to so arra da more OTHER OTHER CHARGE TOTAL AMOUNT CHARGE TOTAL AMOUNT PAID U ω PAID major Units day PASSENGERS (PRINT) PASSENGERS THON PASSENGERS (PRINT) PASSENGER 4. TOA 7645 74 50 4 5 TUT 24 Miles de a 60. 10 10 04264 269 12 aft callation L/WE HEREBY ACCEPT THE CONDITIONS OF CHARTER AND CARRIAGE AS SHOWN ON THE REVERSE SIDE OF THIS COPY OF THIS CHARTER TICKET AND HEREBY AGREE TO THE ABOVE CHARGES. LIVE HEREBY ACCEPT THE CONDITIONS OF CHARTER AND CARRIAGE AS SHO ON THE REVERSE SIDE OF THIS COPY OF THIS CHARTER TICKET AND HEREBY ACREE TO THE ABOVE CHARGES. California V

118 5200 GULF-AI GI C. VOW 5C7 / PHONE (604) 287-8371 HARDY (604) 1.16 CHARTERED CHARTERED TO τo DATE Sec. 1 TIME OU TIME IN TIME OUT TOTAL TIME IN TOTAL 45 FROM EXT EXT PASS FRO HOURS PASS SIB MILES TO HOURS SIB 먨 ų, <u>li defecte</u> ALL MARTIN 2.0 Carlines in 1 121 1.400 21 1 0.06244 00 10.1 MILES RATE RATE TT ROMAT TO HOURS @ STI HOURS dater were table-+100 C STAND-BY STAND-BY Reasonable ris Part EXTRA LANDING EXTRA LANDING MINIMUM FUGHTS hand ALC ALCOLOGICAL STATE MINIMUM FLIGHTS Same WART OF TACK - HER OF A LEADER AND THE WORK F 54.0 A Prince to a strike the 16.001 And 200 OTHER OTHER CHARGE TOTAL AMOUNT CHARGE TOTAL ANOUNT PAID PAID " I Code the street with the the prover way . V. arantistapa PHENE BARANCE 10. PASSENGERS (PRINT) PASSENGERS PRINT PASSENGERS and a. PASSENGERS (BIGN) (BIGN) driven de te - "raventy LAPSON MA distant. 8.41 P White a in the spect her at 1700 0000 10 0343 03555 SP PATE BALLIN TON AL INTRA NOT BRAINING LAWE HEREBY ADCEPT THE CONDITIONS OF CHARTER AND CARRIAGE AS SHOW ON THE REVERSE SIDE OF THIS COPY OF THIS CHARTER TICKET AND MEREBY AGREE TO THE ABOVE CHARGES L/WE HEREBY ACCEPT THE CONDITIONS OF CHARTER AND CARRIAGE AS SHOWN ON THE REVERSE SIDE OF THIS COPY OF THIS CHARTER TICKET AND HEREBY AGREE TO THE ABOVE CHARGES - Key . [23. mar. the state of the second state and

State B. C. Balling Hal Herber AIRSAMATIO GL PORT HARD TERGO RED DATE DISPATCH TOTA FROM MILES EXT HOURS SIB MAES 00 RAT 1.22. RATE HOURS STAND-BY STAND-B BRAD HUR forhar EXTR. the shifty the option of the 101 80 4 EXTRA LANDING. MINIMUM FLIGH MINIMUM FLIGHTS -----OTHER History may OTHER)PAID TOTAL AMOUNT TOTAL AMOUNT CHARGE PAID 的新数制 neissia MA de UM PASSENGERS (SIGN) PASSENGERS (PRINT) asi-ver 10 03649 L/WE HEREBY ACCEPT THE CONDITIONS OF CHARTER AND CARRIAGE ON THE REVERSE SIDE OF THIS COPY OF THIS CHARTER TICKET AND HEREBY AGREE TO THE ABOVE CHARGES. AND CARRIAGE AS SHOW 19.37 . Arralli Win Stack REVERSE SIDE OF THIS COPY OF THIS CHARTER TICKET

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DNE (604) 287-837 (PORT.HARDY TODAT THE 353) CHARTERED 14.0 10 Ang FROM TO PRIMA "HOURS PASS 216 MIC 1 in a she was the state RATE. RATE Section 1 STAND-BY. EXTRA LANDING MINIMUM FLIGHTS OTHER. PAID OTAL AMOUNT 60.00 PASSENGERS PASSENGERS (SIGN) **WHO** CIIIS 61 02809 Albert. WE HEREBY ACCEPT THE CONDITIONS OF CHARTER AND CARRIAGE AS SHOWN ON THE REVERSE SIDE OF THIS COPY OF THIS CHARTER TICKET AND HEREBY AGREE TO THE ABOVE CHARGES.

Gι GU P.O. BOX 1451, CAMPBELL RIVER, E P.O. BOX 1451 PHONE (604) 287-8371 PHONE (604) 287-8371 (PORT HARD LTD - 1000 - 1030 W. PENDEL CHARTERED CHARTERED TO то fi mainte NCOULER P 0 80X 370 DATE DATE PORT HADOT B C - MARANA CARACTER 9.80 Trent that / 1274 1819 PORT HARDY C 19 VON 200 112 23 TIME IN TIME OUT DISPATCH TIME OUT TIME IN DISPATCH TOTAL TOTAL HJ GD de FRO FROM TO HOURS EXT EXT 818 MILES PASS HOURS SIB MILES 80 P HD Knug 5 9 In Sec. a 38. 4 8.4117 10-4 έĴ. 4 . A Aret. hat. time Time. 185 100 13 A the bearings of William. 2 288 1.1144.00 04 RATE RA MILES MILES . . S when men int 1 photos 1 Berger St. 宠 RATE HOUR RATE 10.00 TWANT THE MENT HOURS HOURS 26.00 15 STAND-BY STAND-BY HOURS @ Trater is in 1103 000014 EXTRA LANDING EXTRA LANDING nites lies West & Maring State I was a Sile . 1.4 MINIMUM FLIGHTS MINIMUM FLIGH 0 14:5 THE STREET Sour age will a AD BELLET OF OTHER -117 OTHER にも抽用 PAID CHARGE TOTAL AMOUNT PAID. CHARGE TOTAL AMOUN 602.80 Contraction and an an annual HOT MALL PASSENGERS (PRINT) PASSENGERS ' (PRINT) " ' ' ' ' ' ' ASSENGERS (SIGN) *** PASSENGERS" (SIGN) HMIDT FF T MAUDT IOUG 1.14 J. DUNG Water Hat 10 2.2 Sector Sector JOH Dodeo m Kana 6.64 10 10 10 */ 40.000.00 03090 trad we we we to to # 3 A 2 1 L/WE HEREBY ACCEPT THE CONDITIONS OF CHARTER AND CARRIAGE AS SHOWN ON THE REVERSE SIDE OF THIS COPY OF THIS CHARTER TICKET AND HEREBY AGREE TO THE ABOVE CHARGES. ACCEPT THE CONDITIONS OF CHARTER AL. WE HERER **ARRIAGE AS SHOW** ON THE REVERSE SIDE OF THIS COPY OF THIS CHARTER TICKET AND HEREBY AGREE TO THE ABOVE CHARGES. 20.2495 5 10 TOP C 40 14 10 :00 Sec. Sec. UB-



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K	Slalig IN CHEMEX	VOICE	212 BROOKSB/ NORTH VANCO CANADA TELEPHONE: AREA CODE: TELEX:	ANK AVE. UVER, B.C. V7J 2C1 604 964-0221 043-52597
TO: Utah 1600 Vanco Attn: V6E 3 J.R.	• ANALYTICAL CHEMISTS Mines Ltd., - 1050 W. Pender St., Huver, B.C. 187 Deighton	JUL 31 1979 UTAH MINES LTD. EXPLORATION DEPT.	CERTIFICATE NO. INVOICE NO. DATE	48883 to 48886 31445 July 30, 1979
144 144	DESCRIP PROJECT HOODOO Analyzed for Cu, Mo, Zn, Prepared @ \$1.75 (Rocks)	Ag, Au @ \$6.80	SUB-TOTAL \$979.20 252.00 1231.20 246.24	TOTAL
	ſ			\$984.96
		FERMS-NET 30 DAYS		78.040

H

1%% Per Month (18% Per Annum) Charged on Overdue Accounts

	INVOICE 712	4179 212 BROOKSBA NORTH VANCOL CANADA	NK AVE. JVER, B.C. V7J 2C1
CHEM	EX LABS LT	D. TELEPHONE: AREA CODE: TELEX:	9 604 604 043-52597
ANALYTICAL CHEMIST	· DPCEVPI	GISTERED ASSAYERS	
Utah Mines Ltd. 1600 - 1050 W. Pender St. Vancouver, B.C. V6E 3S7 J.R. Deighton Hoodoo Cr.	JUL 23 1979 UTAH MINES LTD.	CERTIFICATE NO. 44 INVOICE NO. 32 DATE THE 22	8545 L255
	EXPLORATION DEPT.	SUB-TOTAL	TOTAL
24 24 Analyzed for Cu, Mo Prepared (rock) @ Less 20%	, Zn, Ag & Au @ \$6.8 \$1.75	0 \$163.20 42.00 205.20 -41.04	-
			\$164.16



	INVOICE CHEMEX LABS LT	212 BROOKSBANK AVE. NORTH VANCOUVER, B.C. CANADA V7J 2C1 TELEPHONE: 0043-52597 TELEX: 043-52597
TO: Utah M 1600 - Vancour ATTN: V6E 35 H00D00	• ANALYTICAL CHEMISTS • GEOCHEMISTS • F ines Ltd., 1050 W. Pender St., ver, B.C. 7 0 CR.	CERTIFICATE NO. 49194-96 INVOICE NO. 31663 DATE Aug. 7/79
	DESCRIPTION	SUB-TOTAL TOTAL
100 100	Analyzed for Cu, Mo, Zn, Ag & Au @ \$6.80 Prepared @ \$1.75 (rocks) Less 2	07 \$680.00 <u>175.00</u> 855.00 171.00 \$684.00
	AUG 8 779 UTAH MINES LTD. EXPLORATION DEPT.	
	TERMS-NET 30 DAYS	78-040

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The	۵	INVOICE	212 BROOKSBAN NORTH VANCOU' CANADA	IK AVE. VER, B.C. V7J 2C1
		MEX LABS L	TD. TELEPHONE: AREA CODE: TELEX: 0	604 984-0221 43-52597
TO: Utah Min 1400 - 1 Vancouve ATTN [:] Mr. J.R.	• ANALYTICAL CH es Ltd. 050 W. Pender St r, F.C. V6E 3S7 Deighton	EMISTS PEGENTS 10/2/79 SEP 21 197 HOO DOO DEPENDENTS	REGISTERED ASSAYERS CERTIFICATE NO. 50 INVOICE NO. 32 DATE Sept. 20	128 & 50129 557 /79
T		DESCRIPTION	SPIT. SUB-TOTAL	TOTAL
74 74	Analyzed for C Prepared @ \$0.	u, Mo, Pb, Zn, Ag & Au @ 45 Less 2	\$7.35 \$543.90 33.30 \$577.20 -115.44	<u>\$461.76</u>
		TERMS-NET 30 DAYS		78-040
	1%% P	er Month (18% Per Annum) Charged on C	Verdue Accounts	

TT -	1050 W. Pender St.,	OCT 8-19/3	CERTIFICATE NO.	220/20
Vancouv V6E 387 TTN: John D	er, s.c. eighton - Hoodoo Creek	UTAH MALE ST.	DATE	33038 Oct. 5/79
	DESCRIPTION	······································	SUB-TOTAL	TOTAL
35 35	Analyzed for Cu, Mo, Pb, Zm Prepared @ \$1.75 (rocks)	a, Ag & Au @\$7.35	\$257.25 61.25	
		Less 20%	318.50 63.70	-
				\$254.80
	,			

IN CHEMEX	VOICE	212 BROOKSBA NORTH VANCOL CANADA TELEPHONE: AREA CODE: TELEX: RED ASSAYERS	NK AVE. VER, B.C. V7J 2C1 604 604 043-52597
O: Utah Mines Ltd., 1600 - 1050 W. Pender St., Vancouver, B.C. V6E 3S7 TTN: J.R. Deighton	OCT 1 5 1979 UTAHI MINES LTD. EXPLORATION DEPT.	CERTIFICATE NO.50 INVOICE NO. 33 DATE OC	928 176 tober 13, 1979
DESCR		SUB-TOTAL	TOTAL
26Analysed for Cu, Mo, Au26Prepared @ \$1.75 (Rocks)300 lbsOverweight charge @ \$0.2	@ \$5.65 20/1b Less 20%	\$ 146.90 45.50 <u>60.00</u> 252.40 50.48	
			\$ 201.92

1%% Per Month (18% Per Annum) Charged on Overdue Accounts

	··/outra	NVOICE	212 BROOKSBA NORTH VANCOU CANADA TELEPHONE: AREA CODE: TELEX:	NK AVE. IVER, B.C. V7J 2C1 604 604 043-52597
* AN	ALYTICAL CHEMISTS	Desta final \$17 5 The a	STERED ASSAYERS	
TO: Utah Mines Ltd 1600 - 1050 W. Vancouver, B.C	l. Pender St. S.	NOV 1 9 1979	CERTIFICATE NO.	51401 3383 3
ATTN: J. R. Deighto		UTTANI NU LO LUD. Explorationicticati	DATE	Nov. 16/79
	DESCR	IPTION	SUB-TOTAL	TOTAL
4 Analy 4 Prepa	zed for Cu, Mo & . wrad @ \$1.75 (rock)	Λu @ \$5.65 s)	\$22.60 7.00	-
		Less 20%	5.92	
		►		\$23.68
		1		

K	CHEME	INVOICE	212 BROOKSBAN NORTH VANCOUN CANADA TELEPHONE: AREA CODE: TELEX: 04	K AVE. /ER, B.C. V7J 2C1 604 13-52597
TO: Utah M 1600 - Vancou V6F 3S ATTN: HOODO	• ANALYTICAL CHEMISTS Ines Ltd. 1050 W. Pender St. ver, B.C. 7 0 CREEK	NOV 2 1 1979	CERTIFICATE NO. 51 INVOICE NO. 33 DATE NO	444 to 51446 914 v. 20/79
	DE	SCRIPTION	SUB-TOTAL	TOTAL
96	Analyzed for Zn @ \$1 No prep. charge	.50 Less 20%	\$144.00 23.80	
				\$115.20
		,		
		TERMS-NET 30 DAYS		78-040

CHEMEX	LABS LTD.	CANADA TELEPHONE: AREA CODE: TELEX: 04	V7J 2C1 604 3-52597
• ANALYTICAL CHEMISTS O: Utah Mines Ltd. 1600 - 1050 W. Pender St. Vancouver, B.C. V6E 3S7 TTN: J. R. Deighton	DEC 3 - 1979 UTAH MINES LTD. EXPLORATION DEPT.	IED ASSAYERS CERTIFICATE NO. 51 INVOICE NO. 34 DATE NO	608 110 v. 30/79
DESCR	IPTION	SUB-TOTAL	TOTAL
4 Analyzed for Zn @ \$1.5 No prep. charge	D Less 20%	\$6.00 1.20	
			\$4.80

	C		JABS LTD.	212 BROOKSBAN NORTH VANCOU' CANADA TELEPHONE: AREA CODE: TELEX: (NK AVE. VER, B.C. V7J 2C1 604 143-52597
TO:	Utah 1600 Veneo	• ANALYTICAL CHEMISTS • Mines Ltd. - 1050 W. Pender St.	NOV 1 4 1979	CERTIFICATE NO.	51220 & 51221 33665
ATTN:	Vinces V6E 3	11/15/79	UTAH MINES LTD. Exploration dept.	DATE	Nov. 7/79
		DESCRIPT	/ION	SUB-TOTAL	TOTAL
	70 70	Analyzed for Cu, Mo & Au Prepared @ \$1.75 (rocks)	@ \$5.65 Less 20%	\$395.50 122.50 518.00 103.60	-
			/		\$414.40
	-	T	ERMS-NET 30 DAYS	<u> </u>	78-040

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	DEAK	IN FOLIPMENT L	ТО		۵.			
	831 POW	ELL STREET, VANCOUVER, 8.C. V	5A 1H7		· · · · ·	NVOICE NUME		
		TELEPHONE: 253-2685	marian		Nº 33351			
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		8/13	170			NW@[CE	
			MY AUE TO	9 79				
5 0	MEal	(mines) Atd	UTAH MAN	SLIDE	~	· - ··		
Ĺ	1600	0-1050 W. Render	EXPLORATION	PEPT	SAME		<u> </u>	
т <u> —</u>	U	oncourses B.C.	Ť		h vor	- <u></u>		
	283	VGE 357			.			
SHIPPING	AND INVOICE	DATE SHIPPED VIA	PPD. COLL. CHG.	RM8: 1% 10 DAYS	YOUR ORDER NO.	DATE ORDE	#/79	
QTY. 8.0.	OTY. ORDERED	DESCRIPTIO	<u> </u>	NET SO	UNIT PRICE	AMOUNT	<u> </u>	
1	: 3	10-oil flow locas	nu polico		28.75		25	
	800	3/4" , 100 PS	anly side	800	25.34/2	202	72	
		2,400'	· · · · · ·			······································		
	1600	14 3/4" × 75 PS	1 note ain	1000	15.04/2	240	64	
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		uniad de	stic	-	-		-	
	12	as abour n	tol cours.	12	1.24	14	28	
	70	only 1" geor	clamps	70	55.0	38	50	
	_50	Itis 2" C.W.	noils	50	51.00/2	25	50	
	50	· 31/4" ·	<u> </u>	50	43.04	21.	50	
	4	thumb late	kes	4	375	15	00	
	3	corn brooms	+12	3	655	19	65	
	3	dus pons		3	2.66	7	98	
	4	78" = 30" = 3" 4	loomies	4	14.75	59	00	
┣	40	6" × 18" stor	J.pipe	40	1.95	78	00	
┝──┤	10	6" * 90' ~	ellions	10	2.00	20	00	
┢╍┈╌┨	3	6" draft reg	••••••••••••••••••••••••••••••••••••••	3	7.50	22	50	
	3	6° chimney	cops	3	4.40	13	20	
I	1:	18×20 LEADU	poly fly		112.00	112	00	
	12	tina 1317 bio	un primer	12	2.50	30	00	
┝╾_		only 30×30 sh	quei stall		129.60	129.	60	
INCL.	EXCL.	FEDERAL TAX NO.	PROVINCIAL TAX LIC.	NO.	TOTAL	1152	76	
			LT	·	PROV. TAX	46	11	
17.					AMOUNT DUE	119.8.	27	

CUSTOMER COPY



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SEAFORD BUILDI	NG SUPPLIES LTD. NSTEET, VER, B.C. V7J 1C8 NG SUPPLY CENTRE
S C E E E E E E E E E E E E E	- AUG 13 1979 - UTAH MINES LTD. - DATE EXPLORATION DEPT. - AUG 13 1979
CUST L'ABLOS IT JOB NO CALL SHIPPED CAS SOS 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	H CHGE COD SS TAX KU FEDERAL TAX NO.
0 100 - Cin Ixy B I Sputts	Fin 2012 100/14 1400
1 1 J Robb-6mic	2-50-2 POLY
FILLED BY	UNT = 70.67 SUB TOTAL 100 99 TERMS NETSS TAX 407
68977 CUSTOMER'S COPY	CUSTCHER'S SIGNATURE Law Orlesk [CARTAGE TOTAL / DS 03 E SO E
• 	FEDERAL SALES TAX
DISTRIBUTION: (FOR INTERNAL USE ONLY)	
IMPORTANT	to Stalle

IMPORTANT

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(1) SE INVOICE FOUR COPIES IMMEDIATELY GOODS ARE SHIPPED. (2) DU NOT SUBSTITUTE WITHOUT OUR CONSENT.

PURCHASING AGENT

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8:14/79

SEAFORD BUILDING SUPPLIES LTD

NODTU	422 MAIN STEET,	ענייעאינט	766
	ANCOUVER, B.C. V7J 1C8	17 CULI	<u> </u>
COMPLETE	BUILDING SUPPLY CENTRE		
s			TOTE 987-9301
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		HUU 1017.	//
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C IEJJ 1350 W PENDER	o	EXPLORATION	DEPT
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bby 6 on this delivery must be presented within 2 d	ave CUSTOYERS SIGNATI	CARTA CARTA	AGE .
invoice price charged. Sellers handlers		// //	
CUSTOMER'S COPY To the replacement of the materials only.	the soul h	Vinte TOTA	1 > 12000
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5	SEAFORD BUILDIN 1422 MAIN NORTH VANCOUV COMPLETE BUILDIN	STEET. ER, B.C. V7J 1C8 GSUPPLY CENTRE	D 217 PHONE 987-9301
CUST CADE 10 35.7 JOB NI	CALL SH PPED CASH	- CHGE COD SS TAX NO	IG 13 1979 HMINES LTD. DRATION DEPT. 2025 EEDERNI IN NO
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DISTRIBUTION: (FOR INTERN	AL USE ONLY) Arodoo		
IMPORTANT (1) PLEASE INVOICE FOUR ((2) .401 SUBSTITUTE WI	COPIES IMMEDIATELY GOODS ARE SHIPPED. THOUT OUR CONSENT.	PURCHASING AGE	NT /

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K. Orderski

SEAFORD BUILDING SUPPLIES LTD. 1422 MAIN STEET, DICEN 51 NORTH VANCOUVER, B.C. V7J 1C8 COMPLETE BUILDING SUPPLY CENTRE E 987-9301 AUG 13 1979 5/14/1 h н ò UTAH HINES LTD L D UTAH MINES LTD. EXPLOPATION DEPT EXPLORATION DEPT. т 0 TTTTO V PENDER DATE PHUNC 3 CONVER 3 C CUST ONS NO JOH NO CALL 54.0060 COD CASH CHGE .2 55 FEDERAL TAK NO TAX NO 80 0 0 77 ()(CODE DESCRIPTION SHIPPED UNIT FEET BICE 9 EA. 20 2. 3 S ļ, CF) 13: 1 J - 3 -5 . 0 5 12 1177 310 3 19: EA. 3 ء: 748 Æ, Ċ $\mathcal{E}\mathcal{P}$ 7 55 6 **y** • • -•-7 2 SCHUNI 1 SUB TOTAL DEL JERY DATE F LLED BY (HEL YED BY L TERMS NET SS TAX 2% PER MONTH (24% PER ANNUM) SERVICE CHARGE ON OVERQUE ACCOUNTS No goods will be accepted for credit unless re-turned with our permission. Claims for shortage on this delivery must be presented within 2 days. 10% handling charge on all goods returned at invoice price charged. Selfers liability restricted to the replacement of the materials only. CARTAGE CUSTONER S SIGNATURE 68944 TOTAL Δ CUSTOMER'S COPY EAOE FEDERAL SALES TAX Γ. CHARGE EXEMPT DISTRIBUTION: (FOR INTERNAL USE ONLY) Hoadoo E. Stable IMPORTANT (1) PLEASE INVOICE FOUR COPIES IMMEDIATELY GOODS ARE SHIPPED. (2) DO NOT SUBSTITUTE WITHOUT OUR CONSENT. PURCHASING AGENT

K. Orlesti

SLIANG Ĺ SEAFORD BUILDING SUPPLIES 1422 MAIN STEET, NORTH VANCOUVER, B.C. V7J 1C8 COMPLETE BUILDING SUPPLY CENTRE PHOME 987-9301 AUS 13 1979 S H 50 L D UTAH MINES LTD EXPLORATION DEPT. UTAN MINES LID EXPLORATION DEPT т О 0 TAND TISU W PENDER DATE PHONE 45 (CO 158 8 C CUST ORD TO THE JOB NO c o o TAX NO SHIPPED FEDERAL TAX NO CASH CHGE 0 CALL 0 #804 \bigcirc CODE 2 6 2 10 ooco3 4 ~ مر G 2 ۶ 100 う 4 3 8 2 ~ **ix** .: -رم 3 disco SUB TOTAL DELIVER DATE FILLED BY CHECKED B. TERMS NET . 55 744 m 2% PER MONTH (24% PER ANNUM) No goods will be accepted for predit unless re-turned with our permission. Claims for shortage on this delivery must be presented within 2 days. 20% handlung charge on all goods returned at involce price charged. Seliers including restricted to the replacement of the materials only. CARTIGE CUSTOVER S SIGNATURE 68943 TOTAL EADE CUSTOMER'S COPY



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	COA	AST FE	RRIES L	IMITE	D		
то	UTAH MINES 1600 - 1050 WEST ATN: A.J. SCHMIDT VANCOUVER, B.G.	PENDER S	JVER, B.C. VSP Shipper T. RECEIVER	GDN.	MINE SERV	ICES	
	V6E 3S7	<u> </u>	HIPPED VIA			SS TFRMS	
NO OF PRGS	DRILL UNIT	CUBIC FEET	WEIGHT	RATE 730/2	584.00		TOTAL
	FRAME/MAST/LEGS BASKET LARGE WODDEN BOXES BMALL WODDEN BOXES PALLET PAILS DIL/N PALLET PAILS DIL/N PALLET BRILL MUD PALLET CODK STOVE PALLET FRIDGE/FREE DRUM DIL MUD TANKS ROD STAND WITH ROE BDL. LUMBER ROLL WIRE LINE CAE PIPE/HOSE FUEL TANK PLYWOOD DRILL STOVE PUMPS CORE BOXES/CASING/ MUD MIXER/PWER PLA HYD. RAM FORD TANSMISSION	300 300 90 ETC. EZER 32 84 BLE 15 6 5 76 76 76 76 12 84 05 84 05 84 05 76 76 76 76 15 15 15 15 15 15 15 15 15 15	3388 200 400 650 5850 450 7000 768FBM 100 768FBM 100 75875 400	730/2 730/2 730/2 730/2 730/2 565/C 300/2 690/2 300/2 440/2 730/2 730/2 730/2 730/2 730/2 730/C 730/C	1095.00 14.60 328.50 29.20 36.73 263.25 29.40 78.40 25.43 126.00 483.00 74.04 4.15 31.50 9.00 11.00 10.95 277.40 113.85 12.78 5.48 29.20		\$4533X 25 3672.86

INVOICE

PRO NO 594913 - H
	North Arm Transportation Ltd.	
· ·	Utah Mines Ltd. #1600 - 1050 West Pender Street, Vancouver, 8.C. 9/17/79	# 12924 Nº 12924 321.9171 582 KENT AVENUE EAST VANCOUVER, B.C. VSS 2H8 12E
DATE	DESCRIPTION	AMOUNT
Aug. 31/79	To transport of the following items from Vancouver to Kni Inlet, as per the attached Sill of Lading. 1 bundle 1 x 4, 2 x 4, 1 x 2 1 bedframes 1 aluminum tent box 6 boxes 6 propane tanks 2 aluminum boxes 6 bundles plastic hose 2 wooden boxes 1 tent in plastic 4 boxes 3 oil heaters 5 barrels 1 steel frame 3 tents 1 water heater & 4 tarps	lght \$ 500 00
	INTEREST CHARGED ON OVERDUE ACCOUNTS AT 12%, PER ANNUM (1%, PER MONTH Provided that the tugboat owner uses diligence to keep the tugboat seaworthy, the tu- boat owner shall not be liable for any loss or damage to the tow or its content boast owner shall not be liable for any loss or damage to the tow or its content boast owner shall not be liable for any loss or damage to the tow or its content boast owner shall not be liable for any loss or damage to the tow or its content boast owner shall not be liable for any loss or damage to the tow or its content boast owner shall not be liable for any loss or damage to the tow or its content boast owner shall not be liable for any loss or damage to the tow or its content boast owner, its servants or Agent and GAR 6.77) g- is, or is.

CM

CAMERON MCCUTCHEON DRILLING LIMITED

DIAMOND DRILLING CONTRACTORS

Telephone 253-5251 Telex: 04-54311 745 Clark Drive Vancouver, B.C. V5L 3J3

INVOICE NO. 12106

JOB NO. 404

SEPTEMBER 30, 1979

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Utah Mines Ltd. Suite 1600 - 1050 West Pender Street Vancouver, B.C. V6E 3S7

Attention: Mr. A.J. Schmidt

Billing No. 1 Surface Drilling, Hoodoo Creek, B.C. September 1979

Mobilization	\$ 8,052.83
Hole Summary	32,823.00
Site Costs	2,928.20
Supply of Materials	7,041.36
Board	704.00
Demobilization	5,592.80
	Mobilization Hole Summary Site Costs Supply of Materials Board Demobilization

\$57,142.19

C-MI CAMERON McCUTCHEON DRILLING LIMITED

DIAMOND DRILLING CONTRACTORS

Telephone 253-5251 Telex: 04-54311

Cho & Housoo

745 Clark Drive Vancouver, B.C. V5L 3J3

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Invoice No. 12118 Job No. 404 November 3, 1979

Utah Mines Ltd. Suite 1600-1050 West Pender Street Vancouver, B.C. V6E 3S7

Attention: Mt. A.J. Schmidt

Billing No. 2

Schedule Schedule	A - B -	Site Costs Supply of	Materials		\$	50.00	cr
Schedule	Č -	Board			<u></u>	90.00	cr
						1865.43	
			Total	Invoice Du	e <u>\$</u>	2005.43	
Please no	nt o	- Credit fo	n site coste	and Boand			

were deducted from invoice No. 1 and our acknowledgment of credit on invoice No. 2. Therefore, total due on Invoice No. 2 is \$2005.43. Thank you!

STATEMENT CO-UP NORTH ISLAND CONSUMER SERVICES CO-OPERATIVE 950 IRONWOOD RD. CAMPBELL RIVER, B.C. V9W 5K7 5 TELEPHONE: 287-413 ACCOUNTS DUE AND PAYABLE THE 10TH OF MONTH FOLLOWING. INTEREST CHARGED AT 18 PER CENT PER ANNUM ON OVERDUE ACCOUNTS UMITED то 1-1-6/01 00, 1050 W Pindlewy റ 0 0 6 VILE 357 Vancours Ę σ **CO-OPERATIVE** MONTH Rept 1-15 79 PRICE DETACH HERE PLEASE RETURN THIS PART WITH YOUR REMITTANCE 3674-MEMBER'S NO YOUR CO - OPERATIVE ASSOCIATION IN ACCOUNT WITH AMOUNT **KEEP THIS PA** BALANCE PARTICULARS DEBIT CREDIT DATE PREVIOUS BALANCE FORWARD 1 41 137790 24 81 77 137742 47 71:1 11 1) SEV CT L-507 5 UTAH MINES LTD. -- EXPLORATION D DESCRIPTION UMITED DISTRIBUTION **R 1979** Maior Mino Amout ŢΡ. Ω. -A 000 UT JES L D. 0 n 0 CYD Δ 0 QTY h a 1000101 Ä **CO-OPERATIVE** V 0 0 0 1 BUING 0, 0 Ú. U ! Date Received Annuu . .. 77 MEMBEP S 2 Ext. & Prices 16 . ب. . والي puroved by Alinuus بد زلامه آه CHECK NO. E. & O. E. Ď IN THIS COL STATEMENT Please pay last amount:

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FORM 1 383 (F

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	9/14/79 DATE SI	EPTEMBER 13, 19
In Account With —		
UTAH MINES LTI	·	
1600 - 1050 WE	ST PENDER STREET	
VANCOUVER, B.C	•	SEP 1 7 1979
	t 1'	
	E)	FUSTING STR
REFERENCE IN	VOICE # 19007, 19008	19010
AS PER ATTACHED FLIGH	T INVOICES.	
HELICOPTER TYPE		
	DELL 47 IUADIAL REG.	No. C.F. I.I.
	BELL 47 TUANTAR REG.	
BASE OF OPERATION	VICTORIA,	No. C.F
BASE OF OPERATION	BALANCE FORWARD	No. C.F
BASE OF OPERATION	BALANCE FORWARD	No. C.F. <u>111</u>
1.4 Hours V.I.H. Fu	VICTORIA, BALANCE FORWARD @ \$ 235.00 PER EL @ \$ 27.50	No. C.F. <u>I.I.</u>
BASE OF OPERATION 12.3 Hours 1.4 Hours V.I.H. Fu Hours	VICTORIA, BALANCE FORWARD @ \$ 235.00 PER EL @ \$ 27.50 PER @ \$	No. C.F. <u>I.I.</u>
BASE OF OPERATION 12.3 Hours 1.4 Hours V.I.H. Fu Hours Hours	BALL G/ URBILE REG VICTORIA, 1 BALANCE FORWARD @ \$_235.00 PER EL @ \$_27.50 PER @ \$ PER @ \$ PER EL @ \$ PER	No. C.F. <u>111</u>
BASE OF OPERATION 12.3 HOURS 1.4 HOURS V.I.H. FU HOURS HOURS V.I.H. FU MINIMUM CHARGES	BALL G/ ULTORIA, BALANCE FORWARD @ \$ 235.00 PER EL @ \$ 27.50 PER @ \$ 27.50 PER EL @ \$ PER EL @ \$ PER F APPLICABLE > PER PER	No. C.F. <u>111</u>
BASE OF OPERATION	BALL G/ URBILLE REG. BALANCE FORWARD 0	No. C.P. <u>111</u>
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VANCOUVER ISLAND HELICOPTERS LTD.

P.O. BOX 2095 SIDNEY. BRITISH COLUMBIA VEL 356

47.4 21⁴

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39/71

d/J/JW SEPTEMBER 18, 1979

TELEPHONE 656-3987

4,040,70

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In Account With _____ UTAH MINES LIMITED

1600 - 1050 WEST PENDER STREET

VANCOUVER, B.C.

	,,,,, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
REFERENCE	# 23980, 23982, 2398	3, 23987
FLYING SERVICE FOR MC AS PER ATTACHED FLIGHT IN	NTH OF SEPT 3, 6, 7	10 <u>79</u> 19
HELICOPTER TYPEBE	LL 206L-1 REG. No.	C.F
BASE OF OPERATION	PORT HARDY, B.C	•
	BALANCE FORWARD	
15.1 Hours	@ \$385.00 PER HR.	\$
6.3 HOURS V.I.H. FUEL	@ \$36.00_ PER HR.	
Hours	@ \$ PER HR.	
HOURS V.I.H. FUEL	🤃 \$ Per Hr.	l
	PLICABLE	
CREW EXPENSES		
ADDITIONAL CHARGES		

TOTAL CHARGES

TERMS: 30 DAYS NET Interest at 1%% per month (18 per cent per annum) charged on overdue accounts.

This company complies with the CODE OF ETHICS of the Helicopter Association of America.

بالمعد فبالمسطان والموجد ويوري

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TRANSWEST HELICOPTERS (1965) LTD.

P.O. BOX 16. PITT MEADOWS, B.C. CANADA, VOM 1P0

PHONE (604) 465 - 5151

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aua 83

CHARGE TO

TELEX - 04 - 507500

DATE August 24, 1979

P.O. NO.

Utah Mines, 1600 - 1050 W. Pender St., Vancouver, b.c.,	5127179
V68 387	

iAFT Etuches 500C	CCHOP		3		
Hughes Sour	CO-Myr	AATE PER HOUR	J		
Roh Skelly		S	325.00		
DATE	FLIGHT TICKET NO.	HOURS		AMOUNT	
. <u>.</u>	· ·	.	,		
8/16/79	2611	0.3		\$ 97.50	
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9 		:			
		· · · · · · · · · · · · · · · · · · ·	SUB TOTAL	\$ 97.50	
•	TERMS		FUEL CHARGES		
A SERVICE CHAR	GE OF 11/2% PER MONTH, (18%	PER ANNUM)	MISC.	·····	
CHARGED ON O	EASE PAY FROM THIS INVOICE		INVOICE TOTAL	\$ 97.50	
DUE	AND PAYABLE WITHIN 10 DAY	<u>s</u>			
SES PRINCE GEORGE	GALS FROM	T AT			
(004) 963-9711					
(403) 668-5504 P	LOTS NAME KOD 5	Kelly			
s	IGNATURE				

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FLIGHT TICKET NO.

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QUASAR AVIATION FIELDE HELICOPTER CHARTER SERV AS S SEP 4 1979NVOICE 7600 SUNNYBANK AVE. RICHMOND, B.C. UTAH MINES LTD. V6Y 1G5 EXPLORATION DEPT. 79182 (604) 271-5505 Date: 27 August 1979 To:____Utah Mines Ltd 5. • 1600 - 1050 West Pender Street Vancouver, B.C. Customer Order No. the state of the s HooDog Hoode - The states To a real المسيح فيوجع والمتكر المستحد المحال Helicopter Type Registration ATC Area Period/Order Date ÷.... Hughes 500C + 1997 - **8.3** C-GWQR 22 - 24 August 1979 Description Amount Flying Hours: 15.0 @ \$295.00 ,425.00 Fuel Supplied by Quasar: 37.0 gal. @ \$1.05/gal. 38.85 4.463.85

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		~ ~`	-		3. -					HOMEY	DAILY MINIMUN 1-29 DAY:	A 30 DAYS OR NORE		Т	1	1		1 1
		\square	IASE No.	Z	9	BASE NAME	-	AIRCRAFT TYPE A	ACRINET CODE	AIRCRAFT	CALL SI	CN	· · · · · ·	LIGHT LO	CATION	<u> </u>	FLIGHT LOCATION No.	IND CLASS No.
		CUSTON	ER NAME AN		AUL	hell &	n l	206B	16	GIQ	4	U	Luc	<u>=/{7</u>	-INC	Er	58	03
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		THE		n n D H ⁱⁿ k OC	TIONS AND	L.MPATION	S OF LIABL	ITY SET FOR A	IN ITS	TARIFE (E.G.	LIAB	HELET FOR	OUR OIL	æ		a		210
		WHIC	H IS AVA	I ABL	E FOR EXA	MINATION A	T THE OFFIC	CE OF OKANAGA	N HELI	COPTERS LTD								
		PR 1	it name of	PERSON	NITHOM ZED	to sign for Cha	RTERER	1 _			1 1		DITINA CHAN	iges — s	US TOTAL			
	:	SIGNED I	OR CHARTE	ER BY	Z	775		SIGNED FOR CARDER	Ø.	7	4		TAT				700	
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5	4391 VANC TEL.	NAG AGAR OUVE (604)	AN HEL R DRIVE. R. 8.C. V 278-550	ICOPTERS LTD NTERNATIONAL A 78 1A5 02 TELEX: 04-3	0. NRPORT 55594	DATE 19	1019 TRACT - X	719	RACT NUMBER	1 3 0 0 4
ER.					100,20	Rough Minim	Y 30 DAYS IUNI OR MORE			
MSE	No.			se name	AIRCRAFT TYPE AIRCRAFT CODE	AIRCRAFT CALL	LOCATION No. CL			
012	20	C	Ph	THE RIVER	2.68. 16	FICIO	RE	40000	Cak	5180
ISTOMEN	UT	[A]	, 	MINICE	LB	f		NAME /		
	16.	• •	- 1050	wist	PRATICA	PILOT No. 1	BILL	HILL		13m/
	1/	(A.)	(D.) /	and Tol		PLOT IN. 2	1			
				<u>, </u>			1	0		1-11
P.0.	NUMBER		No. PASSENG	ERS FREIGHT LBS	CANGO DECLARED VALUE		Gro.	Canaws	Hered.	174
		-+	1			ENGINEER R. 2				
				0	PERATION			TAKE OFF	iANO	FLYING TH
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	<u>er</u>		• C	EXTIN CHA	NGE OR ADAUSTMENT		IICH AEV. HAS.	веч. низ. /:9	TOTAL HOURS	AMOUNT
	eL	SIV.	• C	ECTINA CHW	REE OR ADJUSTMENT		NON NEV. MRS. TAINT ZIME CODE	EV. MRS. 1:9	TOTAL HOURS	andur 665
	eL 4	SIV.	- C	EXTIN CHA	RGE OR ADAUSTMENT		IKIN REV. HRS. TAMPT Zane code Cust.	EV. MIS. 1:9	TOTAL HOURS	AMOUNT 665
		SIV.	• C	ECTIN CHA ECTIN CHA	DATE OF INVOICE, INTER	AMOUNT 	NON NEV. MRS. TAINNF ZINE CODE CUST. FUEL MRS. ER MONTH		TOTAL HOURS	andur 665
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TER (BE	EL ANS OF ING 18% CUSTOME ADDELLAGE	PAYME	SUD SUD SUD ENT ARE N ANNUM) ER 2 7 ASSE NCE ER	ETTA CHA ET 30 DAYS FROM WILL BE CHARGED	DATE OF INVOICE, INTER ON OVERDUE INVOICES. INVOICE DATE	AMOUNT EST AT 11/2% PE	INDIN REV. HRS. TAMMY ZAME CODE CLIST. FUEL HRS. ER MONTH IO. YR. SUBJECT TO	OUID FUEL OUID FUEL OUID FUEL OUID FUEL GALS @ OUID FUEL GALS @	TOTAL HOURS	
TER TER (BE	AL A A A A RRI NGE F RM1. C A A RRI NGE F RM1. C A A RRI NGE F RM1. C A A A A A A A A A A A A A		THE NEARE N ANNUM) TRANSENCER TIONS AND	ETTA CHA ET 30 DAYS FROM WILL BE CHARGED S BAGGAGE AND G LIMILATION S CF	DATE OF INVOICE, INTER ON OVERDUE INVOICES. INVOICE DATE OODS BY OKANAGAN HEL IABI JITY SE FOR P IN I NIS PER POLINOL FILED	ANDUNT ANDUNT EST AT 11/2% PE COPTENS LTD FS TS EARIFF (E) WITH THE ATC ATC	ICN REY. MRS.	OUR FUEL OUR FUEL COUR FUEL CALS @ OUR FUEL CALS @ OUR FUEL OUR FUEL OUR FUEL CALS @ OVR OIL OVR OIL	TOTAL HOURS	масинт 665 457
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TER (BE THE C THE T LOSS WHICH PRM	CING 18% CONSTONENT CO	PAYMA PAYMA PER HUMMAN O I DF P C NDIT AGE TO ILABLE PERSON	SUD SUD SUD SUD SUD SUD SUD SUD	ET 30 DAYS FROM WILL BE CHARGED S BAGGAGE AND G LIMILATION S CF S LIMITED TO 50 CF. MINATION AT THE O TO SIGN FOR CHARTERER	DATE OF INVOICE, INTER ON OVERDUE INVOICES. INVOICE DATE OODS BY OKANAGAN HEL NTS PER POUND) FILED OFFICE OF OKANAGAN HE	AMOUNT EST AT 11/2% PE OAY COPTERS LTD 19 NOTH THE ATC, AN LICOPTERS LTD	INCINI REV. HRS.	DUR FUEL OUR FUEL AS GALS @ OUR FUEL GALS @ OUR FUEL OUR FUEL	TOTAL HOURS	

INVOICE

0 4391 5 VANO	ANAGAN HEL AGAR DRIVE. COUVER. B.C.	ICOPTERS LTD). NRPORT				09	<u>7</u>	3		84	375	4
TERS TEL.	(604) 278-55	02 TELEX: 04-3	53594 !	· -	me o	DAILY MENIMUM 1-29 DAYS	30 DAYS 0R MORE		œ			TYPE	OF FLYING
BASE No.		se name		AIRCRAFT CODE	AIRCRAF	T CALL SH			FLIGHT U	CATION		FLICHT LOCATION No.	LIND.
	C9n. PBLL	1 Piulan	OU6B	16	<u><u>G</u></u>	24	4	K	147	s In	ult.	578	03
UTI 1600	14 mi - 1050	NLS W.F	ZUDIN	5~	PILOT No. 1	1	R		ALJTH	1 m/L	,		ER 675
V	ANCOUVE	7, A.C.			PILOT No. 2								
P.O. NUMBER	Nu. PASSENG	ERS FREIGHT LBS.	CARGO DECLAR	IED VALUE	ENGINEER	No. 1							
					ENGINEER	NL 2							1 1
		0	ERATION						TAKE OFF-	<u>-</u>		FLYING	TIME
<u> </u>	1 Hu	COUD CO	nul										. 8
	SAR:	COME S	AWPLUS	4 3	52004	65							. 4
4	wow -	CH AM	part. 5	80.7.									1.0
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EL.	OW. SHE	EXTIN CHAIN	E OR ADAISTHERT		ANOUNT		ON NEV. HIRS.	1	EV. HRS.			2	- 7
					4/	4		-	2:2	THEFT	MTE		<u> </u>
					4 1	1	THEFT	A	ÂT	3:0	8	77	n n
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TERMS OF	PAYMENT ARE NO	T 30 DAYS FROM D	ATE OF INVOICE	INTERES	ST AT 11/29	6 PER	<u>HRS.</u> MONTH	34	uel Galg. Vg		10	5	50
CUSTOMER	NUMBER -		1000	-	DAY	MO.	YR.	OUR F	UEL ON S				<u>, c.c</u>
18151	O[d](OUR F	VEL		:		
THE CARRIAGE THE TERM: C	OF PASSENCERS PNDITIONS AND	BAGGAGE AND GO LIMITATIOUS OF <u>LIA</u>	ODST BY LOKANNG/ NB LITY ISET FORT	AN HELICI In IN ITS	OPTERS LTD L TARI <u>FF LE</u>	D 11 SU G LIAE	JBJECT TO HLITY FOR	OUR O			: 	<u> </u>	<u> </u>
LOSS OR DAMA WHICH IS AVA!	GE TO GOODS IS EABLE FOR EXAN	LIMITED TO 50 CEN BINATION AT THE OF	FFICE OF OKANAG	FILED WI GAN HELU	TH THE ATC COPTERS_ET	D <mark>an</mark> Ei D	CTRACT OF	Ø~1		/	50		22
PRINT NAME OF F	ERSON AUTHORIZED TO) SIGN FOR CHARTERER		1				EVTEA	CHARGES	-			
			SIGNED END THEM						vrensta			<u>r.</u>	<u> </u>
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INVOICE

O HE	С ОКА О 4391 УАЛС	NAGANIHELICO AGAR DRIVE, INTE OUVER B.C. V78	PTERS LTD. RNATIONAL AI	RPORT		809	1719	358207				
Fe	ODTER STEL	(604) 278-5502	TELEX: 04-35	5594		TYPE OF C	XONTRACT - X		CONTRACT NUMBER	TYPE C	OF FLYING	
				U.C.			DAILY 30 DAYS 21 MILY OR MORE					
	BASE No.	BASE NAM	IE I	AIRCRAFT TYPE	AIRCRAFT CODE	AURCRAFT	ALL SIGN	FLIGH	T LOCATION		IND CLASS No	
	9 01	UN L	Porol	205A.	38	GO	MR.	the l	Cnicht Inle	579	03	
		I Fal	1	<u>_</u>		PALOT No. 1		$I \vdash$			<u>R</u>	
		00. 10	50 (N. Ce	udu	PROT No. 2		TACELL				
		Vance	uven	12.0		ENNINEER IN.	1 1		· / · · ·	1.05	12	
	P.O. NUMBER	No. PASSENGERS	FREIGHT LOS.	CARGO DECLAR	ED VALUE	ENGINEER No.	2	f un con	<u>.</u>		112	
	r			ATION	1			TAKE OFF				
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- 5							<u> </u>			ļ	<u>.</u>	
						Change war	1 main and 1 main					
							NUM NEV. MIKS.	NET. NO.	TOTAL HOURS	6	\underline{B}	
	17 4 34	4 4					THEFT		THRIFF MATE	AMOUNT	r	
							ZIME CODE		<u> 1 850 an</u>	<u>15.780</u>	$\frac{1}{2}\infty$	
	TERMS OF PA	YMENT ARE NET 30	DAYS FROM DAT		INTERS		FUEL HRS.					
	(BEING 18%)	PER ANNUM) WILL B	E CHARGED ON	OVERDUE INVO	ICES.	A AL 17270 F		76 Ous a	<u> </u>	11d	<u>i 00</u>	
	1851	747		INVOICE	DATE			OUR FUEL GALS. ()			1	
	THE CARRIAGE O	PASSENGERS BAC	GAGE AND G OCT	C BY OKAN/ GAI	N HELICO	PTERS LTD 1	S SUBJECT TO	OUR FUEL Gals. @			:	
	LOSS OR DAMAGE	E TO GOODS IS LIMIT	ED TO 50 CENTS	LITY SET FORTI PER POUND) F	e in its Filed wi	TARIEE (E.G. TH THE ATC, A'	LIABILITY FOP N EXTRACT OF	C. Birs. @	125	8	150	
	PRINT NAME OF PER	ABLE FOR XAMINATION STATEMENT AND A STATEMENT A	ON ALLIHE OFFI	CE OF OKANAG	AN HELIC	OPTERS LTD						
	STORED FOR CHART	4th			<u></u> _/	1		EXTRA CHARGES -	- SUB TOTAL			
•	(III)	Tuy	N		. ()	r		TOTAL	• •	59118	5	
-	. 20	/	X	#11	~er	~~ -		L				

0 4391 A	AGAN HELICOPTER GAR DRIVE, INTERNATI JVER, B.C. V78 145	RS LTD.		FLIGHT JAY	3109	79	8	4371	8
TER TEL. (6	04) 278-5502 TELE:	X; 04-355594		TYPE OF CONT	TRACT X IV 30 DAYS IUM 0R MORE MYS OR MORE	0		TYPE	OF FLYIN
BASE No.	BASE NAME	AIRCRAFT TYPE	AIRCRAFT	AIRCRAFT CALL	SIGN	FLIGHT	LOCATION	FLIGHT	UN I
USTOMER NAME AND ADD	MINPSEH	k. autos	16	FICIG	RE	Kiviqi	14	58	9
UT	Alt Minis			BH/77 M- 1	1->		<u> </u>		ER
/600	-1050 W	J. R. R. Norch.			15.L	L Hil	۹	132	1/1
VA	NCOSVER,	sk.		PILOT No. 2					1 1
		· · · · · · · · · · · · · · · · · · ·		ENGINEER No. 1	01	4. 15.4			
P.O. NUMBER	No. PASSENGERS FRE	EIGHT LISS. CARGO DECLA	ARED VALUE		the	AND AN			
	4	<u>l</u>		ENGINEER Ma. 2					1 1
·			<u> </u>			TAKE OFF-	LAND	FLYING	TIME -
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<u>Cu</u>	. Henry	- Knu	61K	- LR					1.0
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	940 EXT	THA CHARGE OR ADAUSTMENT		ABIOUNT	NON NEV. HIRE.	NEV. HIRL	TOTAL HOURS		0
						1.1.1	THEFT MITE	ANDU	ц у _
에 해 책	4 4		· · [1 4 4	TARIFF ZONE CORE	XA	26 00	1220	1
्रे व					CUST.			(r, v)	
TERMS OF PAYN	IENT ARE NET 30 DAYS F	ROM DATE OF INVOICE	E, INTERES	T AT 11/2% PER	<u>el hrş.</u> Month	OURFUEL			
USTOWER NUM	R ANNUM) WILL BE CHAI	RGED ON OVERDUE INV	OICES.			A CALS	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- 44	Ω
181510	27	INVOIC	DE DATE	1 1 1		CALS. @			-
	PASSENGLIR [®] BAGGAGE A	ND COODS BY DRANAG	A'I HELICO	OPTERS LTD IS S	SUBJECT TO	OUR FUEL Gals. @			÷
HE CARPIACE UP	LINKS AND INTERTOON	OF LEABLITY SET FOR	THE IN ITS	TARIFF (E.G. LIA	BILITY FOR	OFROIL		1	D
THE CARPLACE OF THE TERMS OUNDI LOSS OR DAMAGE T	0 GOODS IS <u>LIMITED TO '</u>	50 CENTS P <u>ER POUND)</u>	FILED WE	TH THE ATC AN S	EXTRACT OF				
THE CARPIACE IVE THE TERMS COMMI OSS OR DAMAGE T VHICH IS AVAILABL	O GOODS IS LIMITED TO E FOR EXAMINATION AT	50 CENTS PER POUND) THE OFFICE OF OKANA	FILED WI GAN HELIC	TH THE ATC. AN E COPTERS LTD	EXTRACT OF		1.00		
THE CARRIACE IDE THE TERMS OUNDI OSS OR DAMAGE T VHICH IS AVAILABL PRINT NAME OF PERSO	O GOODS IS LIMITED TO E FOR EXAMINATION AT AUTHORIZED TO SIGN FOR CHART	50 CENTS PER POUND) THE OFFICE OF OKANA FRER	FILED WI GAN HELIC	TH THE ATC, AN E COPTERS LTD	EXTRACT OF			1	
HE CARPARE OF OF THE TERMS CONDI- IOSS OR DAMAGE T VHICH IS AVAILABL - PRINT NAME OF PERSO NED FOR CHART DELTA	O GOODS IS LIMITED TO E FOR EXAMINATION AT INTROPIZED TO SIGN FOR CHART	50 CENTS PER POUND) THE OFFICE OF OKANAG ERER	FILED WI GAN HELIO	TH THE ATC. AN ECOPTERS LTD	EXTRACT OF	EXTRA CHARGES -	SUB TOTAL		

OKANAGAN HELICOPTERS LTD	RPORT		191	79	84	3792
TEL. (604) 278-5502 TELEX: 04-3	55594	TYPE OF CONTI	RACT - X	CONT	ACT NUMBER	TYPE OF FLYING
Date ^R		Burn Milhim	UM 30 DAYS DIR MORE			
BASE NO. BASE NAME	AIRCRAFT TYPE AIRCRAFT	AURCRAFT CALL	SIGN	FLIGHT LOCA	TION	LOCATION No. CLASS No
CUSTOMER NAME AND ADDRESS	20/eb /16	Giar		hight	silet	5803
		<u>}</u>			f	1121-
ILTAH NINES	10	PILOT No. 1		scol		14/2/61/
1600 - 1050 WEST T	ENDER	PILOT No. 2				
VANCOUVER R P.O. NUMBER No. PASSENGERS FREIGHT LBS.	CARGO DECLARED VALUE	TENGINEER No. 1	GRA	WSHA	w	1174
(.m)		ENGINEER No. 2				
	ERATION	L	1	TAKE OFF	LAND	FLYING TIME
CAMPBELL RIVER	e - 11002	DOD (REE)	K GAMP	13 4Z	14 45	1:0
HOODOD CREEK-	BCJP (K	WIGHT IN	LET)	1514	15 24	.2
KALICHT LULET - C	0,070	leve	•	1546	1616	.5
NUIGHI INCLI		I SLG			10:0	
		76:	. <u>.</u>			
MAIL 10: EXPLORATION L	EPT (GROC	ERIES)			
STRA CHANG	E OR ADJUSTMENT	THUGHA	NON NEV. HRS.	REY. HRS.	TOTAL HOURS	107
े ते ही के ली				/ •/	TARIFF INTE	AMOUNT
			TARIFY ZINE CODE	AV	350 00	595 2
			CUST			
TERMS OF PAYMENT ARE NET 30 DAYS FROM D	ATE OF INVOICE, INTER	EST AT 11/2% PER	MONTH	OUR FUEL	1 00	70 00
(SEING 18% PER ANNUM) WILL BE CHARGED O	N OVERDUE INVOICES.	DAY MO.	YE	OUR FLEL	1=	<u> </u>
ISISIOIAI7				CALS. @		
THE CARRIER' OF PASSEN FRS BAGGAGE AND 600	DES BY OKANAGAN HELL	COPTERS LTD IS	SUBLECT TO	OUR FUEL GALS. @		
THE TERM', CONDITIONS AND LIMITATION, OF LIA LOSS OR DAMAGE TO GOODS IS LIMITED TO 50 CEN	BILITY SET LORDE IN IT TS PER POUNDE FILED W	'S TARIEF (E.G. LI) VITH THE ATC, AN	ABILITY FOR EXTRACT OF	OUR OIL	100	170
WHICH IS AVAILABLE FOR EXAMINATION AT THE OF	FICE OF OKANAGAN HEL	ICOPTERS LTD				
PRINT NAME OF PERSON AUTHORIZED TO SIGN FOR CHARTERER			1 1 1	EXTRA CHARGES — SU	B TOTAL	
SHORED FOR CHARTENER BY	SIGNED FOR ONTOTAL ST			TOTAL	\$	63570
pan Unlester	- ア ひひく	211		· · · · · · · · · · · · · · · · · · ·	·	

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0 439 9 439 9 VAN	ANAGAN HEL 1 AGAR DRIVE. COUVER. B.C.	LICOPTERS LTD INTERNATIONAL A V78 1A5	IRPORT		FLIGHT DATE	6 0 E	179		8	435	92
OPTERS TEL.	(604) 278-55	02 TELEX: 04-35	55594		TYPE OF	CONTRACT - X		CONT	NACT NUMBER		TYPE OF FLYING
MASE No.		LSE NAME	AIRCRAFT TYPE	AIRCIMFT	AIOCRAFT	CALL SIGN					
020	Compa	LL RULA	206B	16	GQ	YU	<u> </u>	. n			8 0, 3
CLISTOMER NAME AND	HODRESS MIN	IES ITA					NAME				NUMBER
1100	0 - 10	50 W.F	OLJOLA		PILOT No. 1	K	?. <i>H</i> /	<i>ع</i> ما	TNONK	5	167 8
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	1 3					CUST. FUEL HIRS.					
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LISTOWER			INVOI	CE DATE	DAY	MO. <u>YR.</u>	our fuel Gals.	æ			
THE CARRIAGE	OF PASSENGURS.	BAGRAGE AND GOO	DS BY OKANAG	AN HELICI	OPTERS LTD	IS SUBJECT TO	OUR FUEL GALS.	0			
EOSS OR DAMA	GE TO GOUDS IS	IMPLATIONS OF LIAB	BILITY SET FOR S PER POUND)	TH IN ITS	TARIFF (E.G. TH THE AFC, 1	LIABILITY FOR AN EXTRACT OF	OUR ON HIRS.		1.w	1.	40
PRINT NAME OF P	ERSON AUTHORIZED TO	INATION AND THE OF I	TCE OF OKANA	GAN HELIG	COPTERS LTD						
SIGNED FOR CHARTERE	DE'	CHTCN'	SIGNED FOR APP					ES — SU	B TOTAL		
m	14			[]/a	JH.	\sim	TOTAL	. 1	\$	-14	9:40
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INVOICE

CONTRACT - X CONTRACT NUMBER T MINIMUM MINIMU	PE OF FLYING
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1600-1850 West Physics and a SCOTT 17	2 ₁ 61/
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P.O. NUMBER NO. PASSENGERS FREIGHT LIPS. CARGO DECLARED VALUE	<u>/ / / / / / / / / / / / / / / / / / / </u>
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Kendd & might Salet - Hoodoo MTR 1457 1571	
Hoodro Local - They Camp (Knight Julet 15 45 1607	04
	19
TERMS OF PAYMENT ARE NET 30 DAYS FROM DATE OF INVOICE, INTEREST AT 1% % PER MONTH OUR FUEL	سه ز
CUSTOMER NUMBER	<u>/</u>
THE CARPIARL OF PASSENGURS, BAGE AND GEODS BY OKANAGAN HELICOPTERS LTD. IS SUBJECT TO GALS @	
THE TERMS CONDITIONS AND LIMITATION: OF LIABLITY SET FORTH IN ITS TARIFF (E.G. LIABLITY FOR OUR OIL LOSS OR DAMAGE TO GOODS IS LIMITED TO SO CENTS PER POUND) FILED WITH THE ATC. AN EXTRACT OF SHARE OF TOO	90
WHICH IS AVAILABLE FOR EXAMINATION AT THE OFFICE OF OKANAGAN HELICOPTERS LTD BRINT NAME OF PERSON AUTHORIZED TO SIGN FOR CHARTERER	
SIGNED FOR CHARGES - SUB TOTAL	
	707

5651721 DEC 1 7 1979

EXPLORATION DEPT.

76

12/19-

INVOICE

D. K. Bragg 3567 west 27th Ave ., Vancouver, B.C. V6S 1P9

<u>.</u>*

IN ACCOUNT WITH: Utah Mines Ltd., 1600 - 1050 W. Pender Street.. Vancouver B.C. V6E 3S7

Dec. I2 1979

\$ 582.50

25.3I

2.I3

16.12

\$ I9.2h

\$ 20.00

\$

To rent on two plugger drills Aug. I3 to Oct 23 Two and one third months at \$ 250.00 per month

Lost

I - 4 ft' steel I bit 2 Condensers @ \$ I.09 each 2 coils 6 \$ 8.06 each

Sharpening 4 bits

Total

\$ 665.35

AK /AJI.

U	AH MINES L	.TD E	XPLC	RATIO	N DEPT	· · · · · · · · · · · · · · · · · · ·
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kyngmot dogging til. gluitzg

September 5, 1979

Utah Mines Ltd. 1600 - 1050 West Pender Street			
Vancouver, B.C.		REC	COVER
Knight Inlet Charges		SE	P 5 1979
Room & Board: Deighton 13 2/3 Days Howe 13 2/3 Kosac 5 1/3 Skelly 1 2/3 Zell 8 1/3 Schwidt 8 1/3 Orgeski 4 2/3 Purdy 2 2/3 Quall 4		UTAH Explo	MINES LTD. RATION DEPT.
62 1/3 Days @ 30.00			\$ 1,870.00
Equipment: Unloading barge August 26 Hiab - 2 hours 0 25.00 Flatdeck - 2 0 25.00 Moving equipment to Hoodoo August 27 Hiab - 6 0 25.00 Flatdeck - 6 0 25.00 D7 Cat - 2 0 62.30		50.00 50.00 150.00 150.00 124.60	524.60
Labour: 2 hours @ 11.47 6 @ 9.645 6 @ 10.23 Benefits @ 50% Board loss - 14 hours @ 3.45	22.94 57.87 61.38	142.19 71.10 	<u>_261.59</u> \$ <u>2.656.19</u>

Kynghot fogging hid.

1014/79

October 3, 1979

Utah Mines Ltd. 1600 - 1050 West Pender Street Vancouver, B.C.

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KNIGHT INLET CHANGES:



OCT 4 - 1979

Room & Board:

Deighton Cote Carter Hall McClay Berg Moony (Pilot) Ross H Liard W	3 days 6 3 6 1 1 1	2 moals 1 2 1 2 1		UT A E VPI	H MILES LTD.
	<u>30</u>	2	33 man days # 30.0	0 \$	990.00
Equipment:					
Scidder	L hours it	58.50			234.00
Crement	2 dava ta	50.00			100.00
Hiab	11 hours #	25.00			275.00
Flatdeck	5 hours @	25.00			125.00
Labour: Unloadin	g boat				
3 hours @ 17.205			51.62		
3 14.265			42.80		
6 9 14.467	5		86.80		
2 0 10.78	-		21.56		
2 0 16.17			32.34	235.12	
Benefits @ 50%				117.56	
Board loss - 16	hours @ 3.4	5		55,20	407.88
				- -	
					131.88

Kyngnot Logging Htd.

10/24/79



Utah Mines Ltd. 1600 - 1050 West Pender Street Vancouver Enight Inlet Charges to October 15 4 Days 1 Heal Board: Deighton 1 Howe 4 3 2 Crawfield 33 2 Cote 2 Berg 2 3 Carter 2 Crowe 720.00 Ż 24 man days @ 30.00 6.50 Phone Equipment: 548.00 - 8 hours @ 68.50 Lowbed 274.00 FE Loader - 4 68.50 112.50 ● 25.00 Hiab - 41 100.00 - 2 days 0 50.00 Crusher Labour: 86.24 8 hours @ 10.78 40.92 • 10.23 4 43.24 셫 9.61 210.54 10.14 • 11.47 105.27 Benefits # 50% 69.00 <u>384.81</u> Board loss - 20 hours @ 3.45 \$ <u>2.145.81</u>



UTAH MINES LTD. EXPLORATION DEPT.

H ()	HOLE NO $79-2$ COLLAR ELEV.: BROUND ELEV.: COORDINATES: N E. INCLINATION -66° BEARING 29/°						BROUND ELEV.: N E. BEARING 29/°	PROJECT: HOODOO CREEK PAGE NO.: / DATE STARTED: SEPT 19,1979 NEF TO CLAI DATE FINISHED: SEPT 26,1979 SCALE: /c TOTAL DEPTH: 243.2 M. LOGGED BY			17 NER: M E.N.					
NOI	ALT	ERAT	TION	URING	RAL	-06Y	COMMENTS:		AVE CORE REC'Y / HOLE	TDES	LING	DRE	RE ZE	RVAL	INT.	ESTI-
SECT	Sulica	Serie	1910	FRACTI	MINE	GEOI		DESCRIPTIVE GEOLOGY		Surph	DRILL	% C	SII	SAN	% RE	
0						0000		0-15 Over burden & Rock Rubble	-		Ī					
				mod		1	-limenite Fr	1.5-2.8 Quartz Vein. mod linonite on Fr.			2.1	-		1.5		
		War	T	T	1.0	N. S.		2.8-19.5 Bug Hole Quartz Porphyry Lt grey to white colored porphyritic rock. C	#9		3.3			2.8		
5				Er/m.	Ed 472	N. V. MY	- Fspor melu Amoellin Fspor mser PJ Gorndmiss gizt eco Istr lim. - Py blackish blue - py blackish blue - py blackish blue - py - cruesive	~ 40% 2-3mm whitish fspar phenos -> == These phenos have been leached out to various (depended on alteration) giving the rock a uuggy (Hence the term Bug hole"), also -10-13/0 2-3- to diamond shaped gtz phenos (invariably The above is set in a greyish ground mass of 9 Dissem of a 49	er + clay py de crees appearance nm. rounded crack led). Hz-ser	4%	<u>43</u> 5.8			5.8		
10		art summer by the	-	1X-mod 8-1	12har	11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	- cpispeck, etr dissem py - 3mm qtz py. - Imm qtz py	mineral after cpy ² is also present some times on py. Some cpy ground visible MINERAL RESOURCES BRANCH ASSESSMENT REPORT	as ternish		<u>7.9</u> 9. 1		MON	8.8		
		Harry Hays Former		2	i Pyt	11	- wasy tte, py . py ulblack tarnisl	8218	2	4-5%	11.0 12.5			//.8		
/5		198			R		6	PART lot	2		14.0			/4.8		







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нс со со	DLE NO 79 DLLAR ELEV.: DORDINATES	-2 60°		oround elev.: n e bearing 291°	project: Hoodeo Creek date started: Sw. pt 19, 1979 date finished total depth:	01 N CORN M: //, GEA		1					
LION	ALTERATIO	URING.	LOGY	COMMENTS:		AVE CORE REC'Y / HOLE	IDES	RVAL	DRE	E E	PLE	INT C'Y	ESTI- MATED
SEC O	SERVER SERVER	FRACT	GEO		DESCRIPTIVE GEOLOGY		SULPH	DRILL	RECOV	CO SI2	SAM	% RE	
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IOLE NO COLLAR E COORDINAT	TES		2			BROUND ELEV.; N E. BEARING: 291'	PROJECT: Hooder Creek Page no.: A Date started: Ref. to cla date finished. Scale: / Che total depth: Logged by			6 of 17 LAIN CORNER: Com : 100 BY: J.R.D.								
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		-			1	- MIGHEY STATEGENE SEEDEN 10 ton Loos pyan 200 - PARAF - Lost tone - BARE STONE & JAS. Mult		3.785										
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OLE OLLAR OORDI NCLIN	N0 E EL MAT	LEV.	7	- 6	<i>c</i> '		DROUND ELEV.: N E. BEARING 271	PROJECT: MOODOO CRIGE DATE STARTED: DATE FINISHED: TOTAL DEPTH:	PAGE NO.: REF TO CLA SCALE: Logged by	12 OF IN CORI 	77 NER: D.			8							
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OLE NO. 79-2 IOLLAR ELEV.: INCLINATES:						GROUND ELEV.: N. E. BEARING: 291'	PROJECT: Hooder Coure Date started: Date finished: Total depth:	PAGE NO.: 13 OF 17 HEF. TO CLAIN CORNER: SCALE: LOGGED BY: J.R. D.4							
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HOLE NO. 79-2 COLLAR ELEV.: COORDINATES INCLINATION -60*				GA N DEARING	00ND ELE	V.: E	PROJECT: HOODON (REEN DATE STARTED: 5405 19/979 DATE FINISHED: 520520 1979 TOTAL DEPTH:	PAGE NO.: 17 OF 17 REF. TO CLAIN CORNER: SCALE: 1CHI : 1 M LOGGED BY: J.R.D												
ALT	ER		ON NO	URING	RAL	OGY	06Y	067	COMMEN	ITS:			AVE CORE REC'Y / HOLE	IDES	ING	DRE	RE	PLE	INT.	ESTI- MATED
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40			And the second states and the	0.00.0	PYALTE	ので、「「「「「」」」	- FAULT 20 ROCK = 1	NE 2000 185 0641	n leven	FRAGEWENTAL PYRITE. MATRIX WEDDING TO DANK ONL BUT HAS FASSA BIOTTES PRUSDAT (MAY SE 200 A TH ALSO SIMISIONS IN PART. JY FRACTURES PAG BARTLIA - FRIDETO OCHANON IN PRACTURES AN HATRIX. EXIDATION IN BRUKEN GARNAD 44522 - RAD OF NOAS	ERN, JUNICITIQ IAG) MINTRIX SERVI CUITING US SIME?IN	3-5%								
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Headee Seck HOLE NO. PROJECT PAGE NO. 2 OF 18 COLLAR ELEV .: DATE STARTED BROUND ELEV. : REF TO CLAIN CORNER COORDINATES DATE FINISHED SCALE: Im im LOGGED BY: GEN INCLINATION 45.0 BEARING 00 TOTAL DEPTH ALTERATION COMMENTS: AVE CORE ESTI-DRILLING INTERVAL % CORE RECOVERED CORE SIZE REC'Y / HOLE MATED FRACTURING SULPHIDES MINERAL SAMPLE INTERVAL % REC'Y SAMP INT SECTION 7 \$ 3 DESCRIPTIVE GEOLOGY Feldspor (Hundloude) Perphy Could matrix -clay Ş ŝ 1. manik nk. 162 16.3 16.3-53.0 Quartz Biotite Feldspur Giverss Att felks par + clay de. Alternating bands which are biat. gtz, or gtz feltiger, in gtz feldspan biat. Rock is relatively un altitle "accept for biat = chl on lettipan = clay. Contains dissem as well as Fr py. η queiserity 20 to ÷, ĝ Ŕ Cold ake Fy-9tz Vis str limon 17 12.2 Sounder ty in 10 19.3 R \mathcal{O} 0/0 \$ 21.3 N 7 2 Anciescenty 20' 22.3 4 W.C. 3 23.2 de limen . Camytz py va 177, Fspar rich band biot richbands-> ofo 5 25.3 letters mychay 26.2 - conterled felie-gtz bands 3 27.1 lim Fr. N. 28.3 6 1 289 19 >lime Fr - of Fr U.







HOLE NO. 72-1 PROJECT Hoodso Cisek PAGE NO. 6 01 18 COLLAR ELEV .: DATE STARTED. Sept. 11/1919 GROUND ELEV .: REF TO CLAIN CORNER COORDINATES DATE FINISHED Sept 18, 1979 BCALE: (cm:/m -45 INCLINATION BEARING TOTAL DEPTH 269.7m LOGGED BY GEN. ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE FRACTURING MINERAL MATED I DE S DRILLING INTERVAL % CORE RECOVERED CORE SIZE SAMPLE INTERVAL % REC'Y SAMP INT SECTION SULPH \$ DESCRIPTIVE GEOLOGY 74 Aneisseelly 05%CA Py Hz mul/Tracepy. 2 Quartz Biotite Feldspar Gneiss Cont (1) ÷ 75.0 20 5 1 - 50 76.0 contact-Sharp 265 to C.A 76.0 - 829 Quartz Feldspar Hornblende Porphyry (10) sevicing after Espa phi. Parphylyritic textured m- grained whileh to light the ŧ macolored rock. 50-60% 2.3mm which felopar - chiser (hb) 3 sX. phenocrysts -> clay ser, 10 % 1-2mm f-lath hb >> Mnoz w/wk limon 780 chlorite. from LI% - 15% gtz phenocrysts 123= 1.1 (61% near contact then grad increase away from 2 contact. Set in a mod silicous while-grouple gradness q/o 79.0 050 which chay ser. Weak disson py. F-grains of disson 1 6 44 0. V- Fichissen Mt MA WKly Fr Some Mnoz stain on Fr. ð × V 1.9 0 Ł Traces dier py 81.1 4 V-S. py Fr fill 820 sharp a) 40% to CA. 82.9 - 83.4 Feldspor Hornblende Porphyry (10) 1 ÷. 14 200 ns #10 from 53 -577 - mod clayatternal fapar, my is but percentage of matics. Matrix is chloritized. Traces dissenipy! Mt 5 0 641 5 82.9-94.0 Quartz Feldspor Homblende Porphyryr (10) 85.0 111 as above with discon py. 1 (i) Ū, ŧí. 672 \$ increase in set in middix & hbacklaser 88.0 wk liminate Khim MnOL



PROJECT: Heeder Creek HOLE NO. 29 / PAGE NO .: FR or 18 DATE STARTED: Sept 11, 1979 COLLAR ELEV. BROUND ELEV. : REF TO CLAIM CORNER DATE FINISHED Sept 18, 1979 COONDINATES SCALE: /cmilm INCLINATION - 13 TOTAL DEPTH 269. Tm BEARING O LOGGED BY GEN ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE SULPHIDES DRILLING INTERVAL % CORE RECOVERED SIZE MATED FRACTURING MINERAL SAMPLE INTERVAL % REC'Y SAMP INT SECTION S 2 DESCRIPTIVE GEOLOGY \mathbf{U} lat. Quartz Butite Feldspar Gireiss Conild Pajepijtz 2-3mm 105.5 3 older stet giz vis cut by py ep 9tz 1060 90 3 Theresesitya) 20th GA 6 arnan glz vn x culs. Sent glauns-4 -sp wolts GARENSSORTH a 40 to C.A 108.5 do pyiep outs . Ban glaun N contact sharp a) 70° 109.4 109.4-143.1 Feldspar Horn blende Porphyry. (10) str limen 10-Ac's 2-3mm light green topar phenes -> ser ++ shows only diffuse boundarys 10-15% 1-3mm bb lotts -> cb/pnd mt. set in. 1+ greeny blue gredness -> ser chyplan 0.5 % 111.5 stratter ser(Hz) И It is not certain that gtz has been introduced to guidmoss 3 1120 ų, as grad mass is med sil. It is thought that no silicia has been good a ass serticidian 15 3 introduced ber ruse of the lack of giz uns. ₹. 4 HZ XX v hb achla(ser) th 100 mod lim 4 hb rebilitifeldspor -> sericky j girdmass clay childer? chi, My after hb 114.6 Faper > clay cert 15 gradmass clayser limon mod gradmass clay-sei lim. also TH 1720 2 layser fspon ť,

and the second se





Hert Creek HOLE NO PROJECT. PAGE NO .: // OF /8 Srpt 11, MAY COLLAR ELEV .: BROUND ELEV .: DATE STARTED REF TO CLAIN CORNER Sept 15, 1979 COORDINATES DATE FINISHED e SCALE: 1 Con 11:2 INCLINATION BEARING 2.64.7 TOTAL DEPTH LOUGED BY SEM ALTERATION COMMENTS: AVE CORE ESTI-REC'Y / HOLE RACTURING MATED 0 SUL PHIDES DRILLING INTERVAL % CORE RECOVERED CORE SIZE SAMPLE INTERVAL % REC'Y SAMP INT MINERAL GEOLOGY SECURIC DESCRIPTIVE GEOLOGY 8 u. 50 Pyritic quartz Porphyry Catt # 8 sti dissemipy 51.2 8 16 V- & blockish min one 1.1 Traces 2 lanpyin 1521 ķ Fault in Adfac.A 0.2m gouge \$ 154.2 0/0 9 3 Q 0 Ð 3 + 1 dillock an ovide' + 1 dillow block mineral 2 1 end of gtz phenocrysts - appears to be 5 156.0 - 156.0 - Hrace epy either a chilled zone of unit # 8 or a greddind. contact of altered folkspor landed por physy (#10) phonos alterin not is strong as a bawe 1156-1602, Minte Missing N 157.3 NO/ Some alterid ser lath shaped phenes would appear to Pyicpy. \overline{Q}_{1} 5 5 200 3 reminant hb. The rock appears to be groching less +v. 1- Mosz get. alterial down hale from 1560 Hisz. Hisz. % 20 ×. 6 159.0 Fspor mep 10.00 hb = chl 2 160.2 160.2 - 163.5 7- no visible contact Quartz Biolile Feldspar Gimeiss #1 1603 bricken rock str qtz alter w/traces Misz sto gta-subyother 160 - 161.5 w/ Py ! Mosz 20 6 4 -1.3 cm gtz py His in . 4 1639 163.5 163.5 - 269.7 sharp a 60 to C.A. Feldspor Harnblende Porphyry "10 In 14 green color wil miner see description next poge. instic notels par phonos.



79-1 Hoodo Creek HOLE NO PROJECT PAGE NO .: 13 OF 18 sept 11, 1979 COLLAR ELEV. GROUND ELEV .: DATE STARTED REF TO CLAIN CORNER Sept 18, 1979 COORDINATES DATE FINISHED SCALE: 1cm 1m 45' 269.7 BEARING O" INCLINATION TOTAL DEPTH LOBGED BY GEN ALTERATION COMMENTS: AVE CORE ESTI-FRACTURING REC'Y / HOLE DRILLING INTERVAL % CORE RECOVERED CORE SIZE MINERAL GEOLOGY MATED SULPHIDES SAMPLE INTERVAL % REC'Y. SAMP INT Seriete Julica 0-140 au DESCRIPTIVE GEOLOGY Ù Feldspar Hornblende Parphyry Contd #10 " 1817 9 3 60 Ranger Co × alteration appears to be mounty chi clay fspar - clay chi ser? hb - ch++ MH こう 「いいちちちちょう」をしていたのないでいっていていたいであるとう -6 1847 Rindmoss -> clay chi ser? dissem Mt. 14 V in 3 Fspar >ch such 100 187.5 Gradnuse - chicky 188.0 5719916 . . L 1001-108 10% 1 lequin fer micht 14 (1) herhl 190,6 1210 . (NEW) = +14 - Carter WX 剱 193 6 2 . •





HOLE NO COLLAR ELEV, COORDINATES INCLINATION	79-	1			GROUND ELEV.: N E BEARING O [®]	PROJECT: DATE STARTED: Sept 11, 1979 DATE FINISHED: Sept 18, 1979 TOTAL DEPTH: 269.7	PAGE NO.: /6 REF TO CLAIN BCALE: /637 LOGGED BY:	0* • cont • · / • G.E	18 NER: N								
ALTERAT	ION	URING	ERAL	1001	COMMENTS:		AVE CORE REC'Y / HOLE	HIDES	LING	VERED	JRE ZE	MPLE	EC'Y	ESTI- MATED			
Serve	-the	FRACT	GEOL		GEOL		GEOL		DESCRIPTIVE GEOLOGY		SULF	DRIL	RECOV	52	SAI	% RI	
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	王を見たい、「日本にある」	low with	- the start	A		increase in ser atterin		1.0	2335		Non						
Area APAultread Cours And	NAMANAN	2 5-8 Fr	11.						239.6			239.0					







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Leg	end : MIQCENE: HOODOO CREEK COMPLEX Anaeste Purchaka ana Awa	SYMBOLS Comp Outcomp	MINERAL RES
4 13 12 10 9 6 7	Rhvolve Breccia Felolabor polphyrv Anaesite aykes Lahar breccia Felolapar-homblence-quarte-porphyrv dykes Bughole quarte porphyrv aykes Puritec quarte porphyrv Dacite breccia	 Breccia Float Geological contrint (defined, approximate, assumed) Bedaing attitude Dyke, with app attach Grecialic foliation Ven, shear rein 	PART
6 3	Davite Quarte felaspor biofile porphyry 38 Subporphyrific granoaiorife Infrusive breccia 48 Coorse phose	 Boundary of 1% pyrite come AMAX comparies: UTAH comparies Legal corner poet (location established by chain (compase) Identification and/or corner poet, clown boundary (located, unlocated) 	
3 7 1	EOCENE (*) AND OLDER COAST PLUTONIC COMPLEX Quarte Maneanite Diarite, quarte diarite Gineraa	Limit of snow Stream 1999 - Topographic contour (contour interval 10 meters	Mo PROP
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