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**GEOLOGICAL AND GEOCHEMICAL REPORT
ON THE
BIG BULK COPPER-GOLD PORPHYRY PROSPECT
KINSKUCH LAKE, BRITISH COLUMBIA**

**Skeena Mining Division
NTS 103P/11
Latitude: 55° 39' 48"N
Longitude: 129° 29' 43"W**

**SUB-RECORDER
RECEIVED
DEC 4 - 1991**

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21915

Prepared For
ABER RESOURCES LTD.
Vancouver, B.C.

and
OLIVER GOLD CORPORATION
Vancouver, B.C.

and
TANQUERAY RESOURCES LTD.
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November 29, 1991

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1.0 SUMMARY

The Kits-Jade Project focuses on Lower Jurassic Hazelton Group rocks in the Kitsault River area, 40 kilometres (25 miles) southeast of Stewart in northwestern British Columbia. The area is within 30 kilometres (20 miles) of deep water port facilities at Kitsault to the southwest on Alice Arm. An unmaintained mine road extends north from Alice Arm up the Kitsault River, approximately 8 kilometres (5 miles) to the west of the property. The project area includes the Big Bulk copper-gold prospect, on the southeast end of Kinskuch Lake.

Detailed prospecting, geological mapping and sampling conducted in the area of the Big Bulk copper-gold prospect has identified extensive zones of disseminated copper and associated gold mineralization hosted in alkalic andesite porphyry rocks of the Hazelton Group. Favourable pyrite, chlorite, carbonate, epidote, sericite and albite alteration underly a gossanous area measuring 2.0 kilometres by 3.5 kilometres (6,500 feet by 11,000 feet).

The 1991 work program was intended to further define the areas of copper mineralization, outline zones of gold enrichment and identify structural and lithological controls to mineralization. Two weeks were spent detail mapping and sampling the entire area around the south end of Kinskuch Lake, which now includes the recently acquired Skuch 14 claim.

The most significant results of the 1991 work done on the Big Bulk area come from channel samples taken from the Bonnie Zone, a rocky peninsula at the southeast corner of Kinskuch Lake. Fourteen discontinuous channel samples totalling 27.9 metres (91.5 feet) in length averaged 1.25% copper and 1.0 grams/tonne (0.029 oz/ton) gold. The mineralization extends beyond the limit of the sampling, indicating the potential for high grade gold-rich copper zones on the property. In addition, the Twyla, Tracey and Marla copper zones were significantly enlarged in size, and the new Metallica zone was found. These zones lie in a one kilometre (0.6 mile) radius around a large glacial moraine.

Geological mapping suggests a structural control of mineralization that ranges from the outcrop scale to the possible control of whole zones. Favourable trends strike between 080° and 120°. Petrographic studies of samples taken from the Big Bulk area suggest the Bonnie

Zone to be within the shell of a high level intrusive stock located at the south end of Kinskuch Lake. The thin section work also suggest the Marla, Tracey and Twyla zones to be hosted in andesitic to rhyodacitic(?) flows.

A polished thin section of mineralization from the Bonnie Zone identifies pyrite and chalcopyrite as the only sulphides present. The chalcopyrite occurs as fine grained veinlets in the pyrite and as disseminations.

The Big Bulk system displays obvious zones of propylitic, phyllic and to a lesser degree potassic alteration typical of alkalic volcanic hosted copper-gold porphyry systems. This, plus the large dimensions of the system suggest strongly the potential for the presence of a significant ore grade reserve on the property. The circle of copper-rich (Twyla-Tracey-Metallica-Marla) zones around the moraine east of the lake, and its relative untested status, make this the best target on the property. The Twyla, Metallica, Marla Zones also are potential targets.

A two phase program for 1991 is recommended. An initial phase of ground mapping, sampling and specifically magnetometer and induced polarization geophysical surveys of the entire area southeast of Kinskuch Lake would be required to outline drill targets. The second phase would include five 200 metre NQ diamond drill holes in the best areas. The proposed budget for this work would be \$400,000.00.

2.0 INTRODUCTION

The 1991 Kits-Jade Project mineral exploration program commenced August 26, 1991 and ran continuously for 16 days in the field until September 10, 1991. The 1991 work was done exclusively on the Big Bulk copper-gold porphyry prospect situated at the south end of Kinskuch Lake. The Kits-Jade program is funded by the joint venture group of Oliver Gold Corporation of Vancouver, B.C. (50% and operator), Aber Resources Ltd. of Vancouver, B.C. (25%) and Tanqueray Resources Ltd. of Calgary, Alberta (25%). Geological consulting services for the project were contracted to Keewatin Engineering Inc. of Vancouver, B.C. A petrographic study of six rock specimens was sub-contracted to Dr. Craig Leitch of the G.S.C.

The Big Bulk area is located 50 kilometres southeast of Stewart within the Skeena Mining Division. It is part of the Kits-Jade property that is comprised of 58 mineral claims totalling 869 claim units (21,725 hectares/53,682 acres). The property includes the two claim (22 units) Big Bulk option vended by Mr. K.W. Livingstone of Vancouver, B.C. The remaining 56 claims (847 units) were staked for and are wholly owned by the joint-venture group. Only the Gossan 3 claim (18 units) is not contiguous with the main claim block.

The Kits-Jade property covers approximately 25 kilometres of favourable geology that includes sediments and basaltic volcanics of the Upper Triassic Stuhini Group unconformably overlain by intermediate to felsic volcanics, volcanoclastics and sediments of the Lower Jurassic Hazelton Group (Greig, 1991b). Mineral occurrences identified to date on the property include: the Big Bulk Cu-Au porphyry system on Kinskuch Lake; the Midnight Blue Cu-Au porphyry(?) system at the Dak River headwaters and the narrow high grade Au-Cu quartz veins at the headwaters of Lahte Creek.

The 1991 work program explored the Big Bulk Cu-Au porphyry area only. The \$50,000 budget was allocated for detailed mapping, prospecting and trenching to further delineate the zones of copper mineralization and assess the important Skuch 14 claim recently acquired by staking.

The 1991 work program was a continuation of an exploration effort began on the Big Bulk prospect in 1990. The Kits-Jade Project has been ongoing since 1989 when the joint-venture group optioned the Sault property and staked the 42 Kit and Jade claims. To date, expenditures for the Kits-Jade Project total almost \$800,000.00.

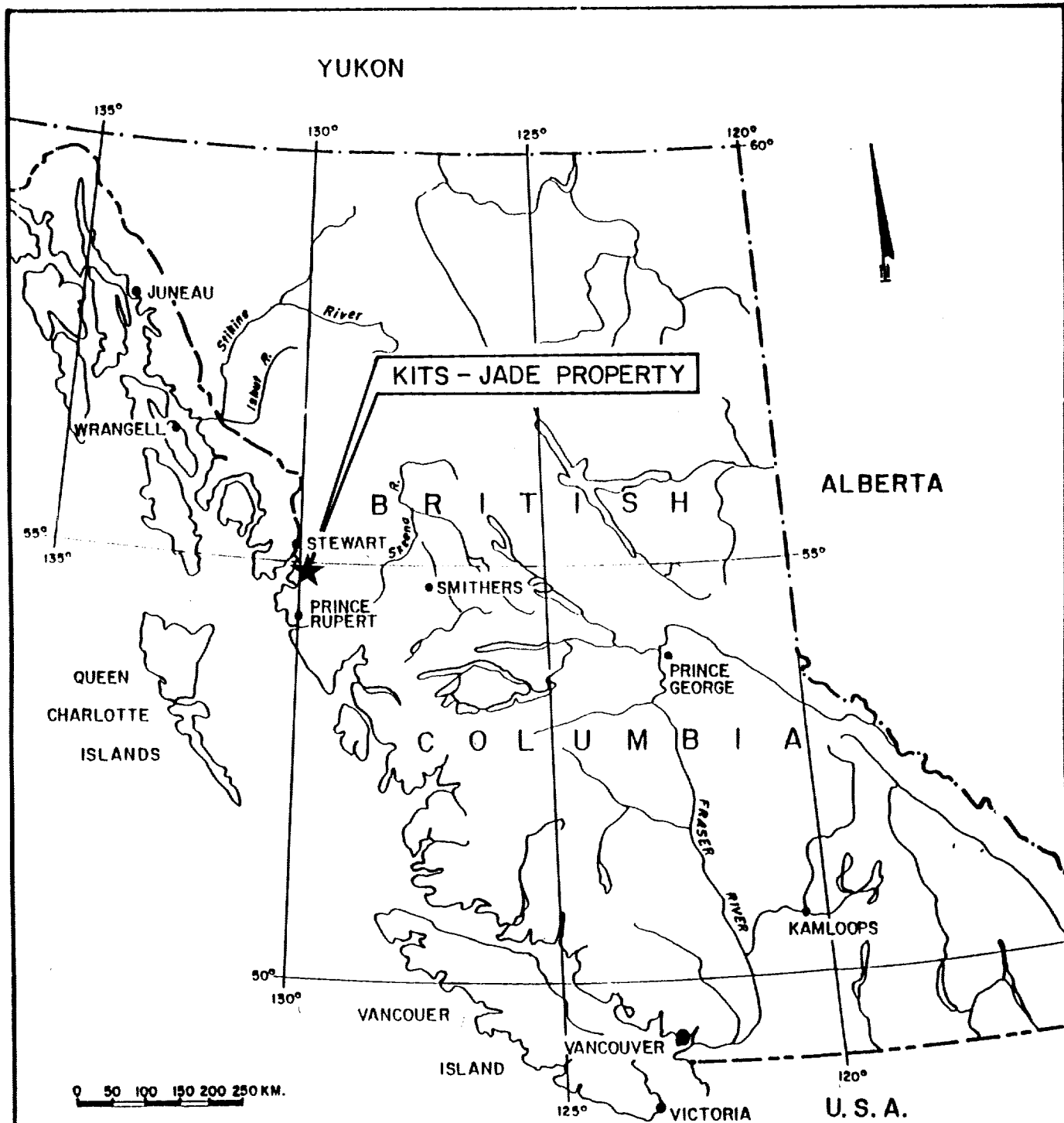
2.1 Location and Access

The Kits-Jade joint venture project is located approximately 40 kilometres (25 miles) southeast of Stewart, B.C. (Figure 1) and extends 20 kilometres (12.5 miles) from Kitsault Lake to the southeast of Kinskuch Lake (Figure 2). Tidewater is only 30 kilometres (19 miles) to the south along the Kitsault River valley at Alice Arm where the abandoned town of Kitsault is located. The claims are located on NTS maps 103P/11, 12E, 13E and 14W between latitudes 55°35'N and 55°50'N, and longitudes 129°13'W to 129°32'W.

The Big Bulk area is located at the south end of Kinskuch Lake, 50 kilometres (30 miles) southeast of Stewart, B.C. entirely on NTS map sheet 104P/11W at latitude 55° 39' 40" North and longitude 129° 29' 43" West.

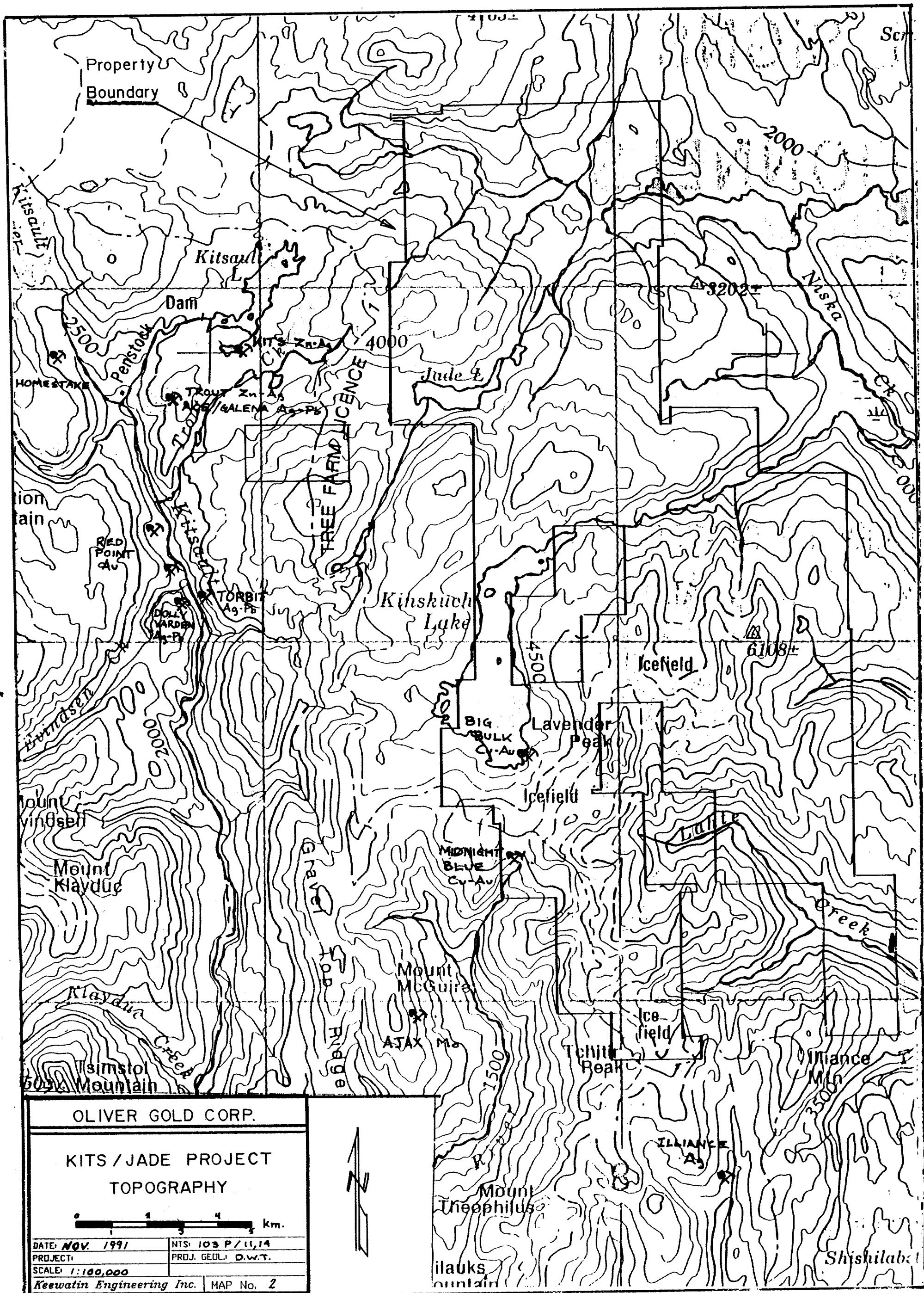
Access into the area is limited to float plane or helicopter. Fixed wing aircraft flights generally originate in Smithers 180 kilometres (110 miles) to the southeast. Stewart, Alice Arm or Meziadin Lake, 35 kilometres (22 miles) northeast, provide good intermediate staging areas that are accessible by road. Aside from Kinskuch Lake, Kitsault and Jade Lakes can also accommodate a float plane. Access in the Big Bulk area can be managed on foot, although an inflatable boat with outboard motor is greatly recommended. Access to all other areas on the property generally requires a helicopter. Helicopter bases are located in Stewart, Smithers and at a logging camp on Highway 37 just south of Meziadin Lake.

The Kitsault River valley road which serviced the Dolly Varden Mine extends from Alice Arm to within 5 kilometres (3 miles) of Kitsault Lake. This road requires extensive repairs. Recent logging activity in the Kinskuch River valley created road access to within 10 kilometres (6 miles) of the north end of Kinskuch Lake. An old tractor road extends from



PROPERTY LOCATION MAP

Figure 1



Property
Boundary

Kitsault
L.

Dam

2000

4000

Jude L.

49202+

Niska

HOMESTAKE

TROUT

KITS

Zn-Au

ion
tain

RED
POINT
Au

TORBIT

Ag-Pb

Kishkuch
Lake

4500

Icefield

6108+

Wardson

2000

Mount
Wardson

Mount
Klayduc

Klayduc
Creek

Simstol
Mountain

Gravel
Top
Ridge

Mount
McGuire

ATAX

MIDNIGHT
BLUE
Cu-Au

BIG
BULK
Cu-Au

Lavender
Peak

Icefield

LITTLE

Ice
field

Tehiti
Peak

Creek

Alliance
Mt

OLIVER GOLD CORP.

KITS / JADE PROJECT
TOPOGRAPHY

0 1 2 3 4 5 km.

DATE: NOV. 1991

NTS: 103 P / (1, 14)

PROJECT:

PROJ. GEOL. D.W.T.

SCALE: 1:100,000

Keewatin Engineering Inc.

MAP No. 2

Mount
Theophilus

ilauks
ountain

ILLIANCE
A₃

Shishilabai

Alice Arm to Mount McGuire, 6 kilometres (4 miles) south of Kinskuch Lake on the Dak River. The most probable land route to Kinskuch Lake would be gained by the construction of a road up Star Creek east from the Kitsault River road to the west shore of Kinskuch Lake. This route would require approximately 10 kilometres (6 miles) of road building for an elevation gain of 900 metres (3,000 feet).

Timber in the area is plentiful at lower elevations, but vegetation at Kinskuch Lake is scarce and stunted.

2.2 Physiography and Climate

The Kits-Jade property area is characteristic of the rugged coastal topography and climate common to British Columbia (Figure 2). Elevations on the property range from 450 metres (1,500 feet) to 2,000 metres (6,500 feet). The terrain varies from moderately sloped and glaciated to steep and precipitous. It is commonly deeply incised by large glacier fed creeks and rivers. Glaciers cover roughly 5% of the property flanking the taller peaks throughout the area. The glaciers have receded significantly since the turn of the century.

Vegetation within the property package varies greatly with elevation. The larger drainages and lower elevations are heavily wooded by spruce, fir and hemlock and not uncommonly snarled by alders, willows, blueberry bushes, huckleberry bushes, and devil's club. Treeline ranges between 1,050 to 1,400 metres (3,500 and 4,500 feet) above which only sparse balsam fir can be found. Large areas of glacially scoured bare rock can be found adjacent to the numerous ice fields.

The climate is coastal with abundant rainfall occurring between June and October. Snow accumulations throughout the winter months can exceed 6 metres (20 feet). Access into the area is often hampered by low cloud and foul weather.

The Big Bulk area is topographically confined by Kinskuch Lake at an elevation of 1,117 metres (3,666 feet), Lavendar Peak rising to 2,300 metres (7,600 feet) to the east and a 1,600 metre (5,300 feet) glacier covered peak to the south. A low saddle rising only 60 metres (200

feet) above Kinskuch Lake lies to the west in the direction of Star Creek and the Kitsault River valley. A sounding profile done in 1991 of the south end of Kinskuch Lake shows it to reach a depth of 88 metres (289 feet). Very little vegetation other than heather and juniper bushes are found in the Kinskuch Lake basin. A small stand of balsam fir is located along the lake shore on the Big Bulk claim. The Kinskuch Lake area has a slightly dryer climate than the surrounding valley areas and is expected to accumulate less snow than average. However, snowfalls begin in late September, reducing the summer period in which exploration can be carried out effectively, to between June and September.

2.3 Property Status and Ownership

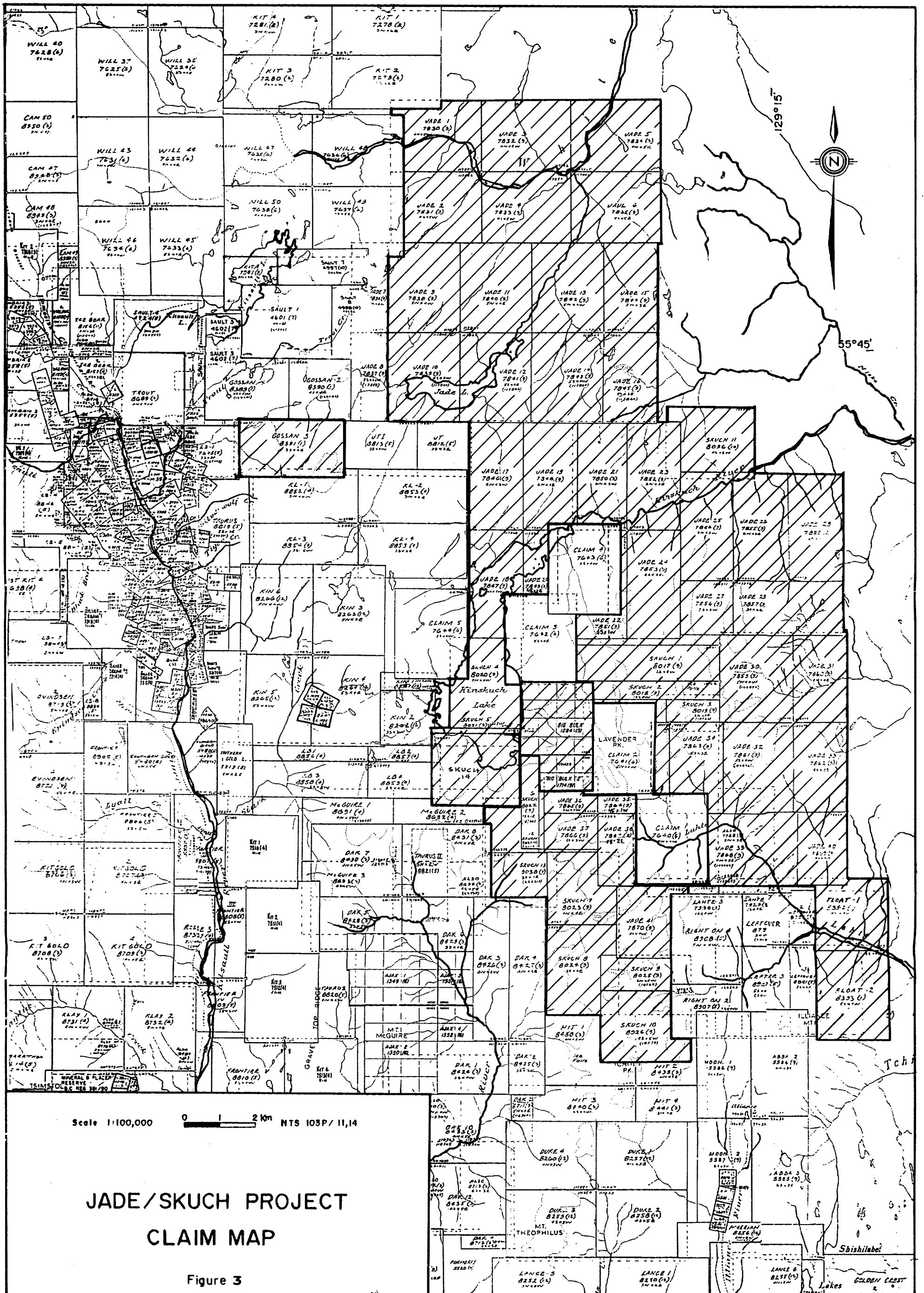
The property is made up of 58 claims comprising 869 units. All claims are located within the Skeena Mining Division. The status of the claims can be divided into two divisions based upon acquisition and ownership (Figure 3).

Big Bulk Option

The Big Bulk and Big Bulk 2 claims were optioned by the Joint Venture group from Mr. Wayne Livingstone of Reno, Nevada in May of 1990.

| Claim Name | No. of Units | Record No. | Record Date | Expiry Date |
|------------|--------------|------------|--------------------|--------------------|
| Big Bulk | 16 | 1284 | May 14, 1979 | May 14, 1992 |
| Big Bulk 2 | 6 | 1714 | September 17, 1979 | September 17, 1992 |

The Big Bulk group is subject to annual advance royalty payments of \$10,000.00 in the first two years, and \$20,000 each year thereafter until production; all to be credited against a 3% N.S.R.



The Kit, Jade, Skuch and Gossan Claims

The Jade 1 to 6 and the Jade 9 to 41 claims comprise 630 units that were staked for the Joint Venture group in early September of 1989 by contract staker J. Hobson of Smithers, B.C. The Jade 20, 22, 35 and 38 have been reduced by a total of 50 units because they overlapped prior claims. The Skuch 1 to 11 (140 units in total) were staked by Keewatin field crews in September and October of 1989. The Gossan 3 and the Float 1 and 2 comprise 54 units and were staked in January of 1990 by contract staker A. Dupras of Penticton, B.C. The Skuch 12 and 13 total 21 units and were staked by Keewatin field crews in July of 1990. The Skuch 14 claim (20 units) was staked by Keewatin in July of 1991 over key ground in the Big Bulk area. These claims are held 100% by the Joint Venture and are subject to no financial obligation other than government assessment requirements. The Jade 7 and 8, the Kit, the Gossan 1 and 2, and Frog 1 to 4 (69 units) were transferred to Mr. J.R. Woodcock when the Sault option was dropped in 1990. Particulars regarding the Jade/Skuch claim group are as follows:

| Claim Name | No. of Units | Record No. | Record Date | Expiry Date |
|------------|--------------|------------|-------------------|-------------------|
| Jade 1 | 20 | 253037 | September 1, 1989 | September 1, 1993 |
| Jade 2 | 20 | 253038 | September 1, 1989 | September 1, 1993 |
| Jade 3 | 20 | 253039 | August 31, 1989 | August 31, 1993 |
| Jade 4 | 20 | 253040 | August 31, 1989 | August 31, 1993 |
| Jade 5 | 20 | 253041 | August 31, 1989 | August 31, 1993 |
| Jade 6 | 20 | 253042 | August 31, 1989 | August 31, 1993 |
| Jade 9 | 20 | 253045 | September 2, 1989 | September 2, 1993 |
| Jade 10 | 20 | 253046 | September 2, 1989 | September 2, 1993 |
| Jade 11 | 20 | 253047 | September 2, 1989 | September 2, 1993 |
| Jade 12 | 20 | 253048 | September 2, 1989 | September 2, 1993 |
| Jade 13 | 20 | 253049 | September 3, 1989 | September 3, 1993 |
| Jade 14 | 20 | 253050 | September 3, 1989 | September 3, 1993 |
| Jade 15 | 15 | 253051 | September 3, 1989 | September 3, 1993 |
| Jade 16 | 15 | 253052 | September 2, 1989 | September 2, 1993 |
| Jade 17 | 18 | 253053 | September 4, 1989 | September 4, 1993 |
| Jade 18 | 18 | 253054 | September 4, 1989 | September 4, 1993 |
| Jade 19 | 18 | 253055 | September 4, 1989 | September 4, 1993 |
| Jade 20 | 8(reduced) | 253056 | September 4, 1989 | September 4, 1993 |

| Claim Name | No. of Units | Record No. | Record Date | Expiry Date |
|--------------|--------------|------------|--------------------|--------------------|
| Jade 21 | 18 | 253037 | September 4, 1989 | September 4, 1993 |
| Jade 22 | 6(reduced) | 253058 | September 4, 1989 | September 4, 1993 |
| Jade 23 | 18 | 253059 | September 4, 1989 | September 4, 1993 |
| Jade 24 | 18 | 253060 | September 4, 1989 | September 4, 1993 |
| Jade 25 | 18 | 253061 | September 4, 1989 | September 4, 1993 |
| Jade 26 | 18 | 253062 | September 4, 1989 | September 4, 1993 |
| Jade 27 | 9 | 253063 | September 4, 1989 | September 4, 1993 |
| Jade 28 | 18 | 253064 | September 4, 1989 | September 4, 1993 |
| Jade 29 | 18 | 253065 | September 4, 1989 | September 4, 1993 |
| Jade 30 | 20 | 253066 | September 4, 1989 | September 4, 1993 |
| Jade 31 | 15 | 253067 | September 4, 1989 | September 4, 1993 |
| Jade 32 | 20 | 253068 | September 4, 1989 | September 4, 1993 |
| Jade 33 | 15 | 253069 | September 4, 1989 | September 4, 1993 |
| Jade 34 | 15 | 253070 | September 5, 1989 | September 5, 1993 |
| Jade 35 | 4(reduced) | 253071 | September 5, 1989 | September 5, 1994 |
| Jade 36 | 6 | 253072 | September 5, 1989 | September 5, 1994 |
| Jade 37 | 6 | 253073 | September 5, 1989 | September 5, 1994 |
| Jade 38 | 8(reduced) | 253074 | September 5, 1989 | September 5, 1994 |
| Jade 39 | 20 | 253075 | September 5, 1989 | September 5, 1998 |
| Jade 40 | 16 | 253076 | September 5, 1989 | September 5, 1993 |
| Jade 41 | 16 | 253077 | September 5, 1989 | September 5, 1993 |
| Skuch 1 | 8 | 253222 | September 22, 1989 | September 22, 1993 |
| Skuch 2 | 8 | 253223 | September 22, 1989 | September 22, 1993 |
| Skuch 3 | 6 | 253224 | September 22, 1989 | September 22, 1993 |
| Skuch 4 | 20 | 253225 | September 22, 1989 | September 22, 1993 |
| Skuch 5 | 5 | 253226 | September 22, 1989 | September 22, 1993 |
| Skuch 6 | 7 | 253227 | September 22, 1989 | September 22, 1994 |
| Skuch 7 | 16 | 253228 | September 22, 1989 | September 22, 1994 |
| Skuch 8 | 20 | 253229 | September 22, 1989 | September 22, 1994 |
| Skuch 9 | 10 | 253230 | September 22, 1989 | September 22, 1995 |
| Skuch 10 | 20 | 253231 | September 22, 1989 | September 22, 1995 |
| Skuch 11 | 20 | 253301 | October 14, 1989 | October 14, 1993 |
| Skuch 12 | 9 | 254242 | July 17, 1990 | July 17, 2001 |
| Skuch 13 | 12 | 254243 | July 17, 1990 | July 17, 2001 |
| Skuch 14 | 20 | 302779 | August 7, 1991 | August 17, 1997 |
| Gossan 3 | 18 | 253596 | January 20, 1990 | January 20, 2001 |
| Float 1 | 16 | 253597 | January 20, 1990 | January 20, 1994 |
| Float 2 | 20 | 253598 | January 20, 1990 | January 20, 1994 |
| Total | 847 | | | |

All claims are four post modified grid mineral claims. New record numbers have been assigned to all claims by the Government Recorder's office in 1991.

The Trout Option

The Trout claim (16 units) option has been dropped. The claim covers the southwest extension of the Kit-Trout Zn-Pb-Ag horizon in the Kitsault Lake area. The claim has been returned to its owner, Mr. C. Kowall.

2.4 History of Exploration

The Kits-Jade project area has been explored sporadically since the turn of the century when rich silver bearing outcroppings were first discovered and the Dolly Varden silver camp was established along the banks of the Kitsault River (Figure 3).

2.4.1 Previous Exploration on the Property

The Big Bulk copper showings along the southeast shore of Kinskuch Lake have been known since they were first prospected in the 1930's. Britannia Mines sampled the property in 1939, reporting gold assays of 0.051 oz/ton (1.75 g/tonne; Livingstone, 1980). During 1955 and 1956, fourteen AX diamond drill holes totalling 6,300 feet (1,920.3 metres) and over eleven packsack drill holes totalling 1,464 feet (446.2 metres) were completed by Northwestern Explorations Limited (Kennco Exploration) of Vancouver, B.C. A small reserve of a few million tons grading 0.4% Cu was outlined on the Bonnie Zone. The ground was acquired by Forrest Kerr Mines Ltd. in 1965; at which time geological mapping, magnetometer and induced polarization geophysical surveys, and 1,247 feet (380.1 metres) of diamond drilling were completed. Cyprus Exploration Corporation Ltd. optioned the property in 1966 and conducted a geological mapping, geochemical sampling and diamond drilling program (Carter, 1966). Kerr Addison Mines Ltd. optioned the property in 1970 and conducted limited Mag and I.P. surveys, and drilled three diamond drill holes (Sirola, 1970). The property was not worked again, and in 1979 the claims lapsed. The property was subsequently restaked as the Big Bulk by K.W. Livingstone. Prism Resources then optioned the property, working on a zone to the north over which a detailed geological map was made and numerous chip samples were taken. In 1982, Procan Resources took up the option and drilled five diamond drill

holes totalling 2,899 feet (883.7 metres) on the zones identified by the 1980 work (Livingstone, 1982).

The property was idle until 1990 when the Oliver-Aber-Tanqueray joint venture group acquired the option from Mr. Livingstone and began a detailed prospecting and geochemical sampling program. No grid was established, but numerous contour soil and rock chip lines were completed. A total of 167 rock samples, 57 soil samples and 20 silt samples were collected.

In 1991, the Skuch 14 claim was staked adding important ground at the south end of Kinskuch Lake. The Big Bulk area was prospected in detail with the collection of 148 rock samples and 8 reconnaissance soil samples. A total of 36 soil samples were collected over a small grid on the Twyla and Tracey Zones. Also, six samples were collected for petrographic study. A 24 metre (78.7 foot) trench was blasted and 27.9 metres (91.5 feet) of rock sawn channel samples were taken on the Bonnie Zone.

The Midnight Blue area at the headwaters of the Dak River, only 3 kilometres (2 miles) south of Kinskuch Lake, is not described in any mineral reports or inventories of the area. Chalcopyrite mineralization is outlined on a geological map of the area that is part of a 1957 Masters Thesis (Gale, 1957). Evidence of an old camp was found in the area, but no record of work can be found. Numerous Pb-Zn veins occur just south of the area and have been the subject of a variety of claim staking programs in the recent past. The Midnight Blue area was staked in July of 1990 by Keewatin crew members for the Joint Venture group. Initial prospecting produced a single float sample (90EEF-57) that assayed 0.111 oz/ton Au (3.81 g/tonne). This result led to more detailed soil sampling prospecting and trenching. A total of 34 rock samples, 88 soil samples and 6 silt samples were collected. No work was done in the Midnight Blue area in 1991.

The Jade and Skuch claim group were prospected and rock, soil and stream geochemically surveyed on a regional scale in 1989 by Keewatin crews. During 1990, the areas highlighted by the 1989 work were evaluated in more detail, and the areas not previously examined were prospected and geochemically surveyed.

2.4.2 Exploration in the Region

The Dolly Varden, North Star and Torbit stratiform volcanogenic Ag-Pb-Zn deposits (Devlin, 1987) have long been the major focus of mining and exploration activity in the area. The Dolly Varden and North Star mines produced 40.4 million grams (1.3 million ounces of silver) from 1919 to 1921, and the Torbit produced 579.4 million grams (18.6 million ounces silver) and 5.0 million kilograms (11.0 million pounds) of lead between 1949 and 1959 (Devlin, 1987). In more recent years, Dolly Varden Minerals Inc. has outlined significant additional proven, probable and possible reserves of 1.3 million tonnes (1.5 million tons) with 441.6 million grams (14.2 million ounces) contained silver at the Dolly Varden, North Star, Torbit and Wolf deposits (Devlin, 1987). During 1990, Dolly Varden Minerals Inc. conducted a 7,087 metre (23,250 foot) drill program testing targets along the trace of the Dolly Varden mineral horizon. No economic grades of mineralization were obtained (Vancouver Stockwatch, August 10, 1990). Dolly Varden Minerals was not active in the area in 1991. Numerous minor silver vein occurrences also dot the Kitsault River Valley, including the Wolf deposit just north of the Torbit mine.

In the Kitsault Lake area, prospecting, trenching and drifting has been carried out sporadically since 1919 on the Summit-Yukon silver-rich breccia veins. The Ace-Galena silver-rich galena-tetrahedrite shear hosted veins were found in 1929 and between 1930 and 1934, a few short adits and numerous open cuts were excavated to better expose the mineralization. The Ace-Galena veins were drilled in 1951 by Transcontinental Resources Ltd. (8 holes), and in 1963 and 1968 by Silver Butte Mines Ltd., (5 and 8 holes respectively). In 1990, Keewatin crews conducted detailed geochemical, geophysical, prospecting and mapping surveys of the area, leading to the discovery of the stratiform Zn-Pb-Ag Trout horizon. The Trout mineralization is considered to be an extension of the Kits Zn-Pb-Ag horizon on the adjoining Sault claims.

The first Sault claims were staked in 1984 by J.R. Woodcock to cover a barite-realgar showing of the Kits Zn-Ag (-Sn-Ba) horizon that Woodcock and N. Wynchopen located in 1966. Cominco optioned the claims between 1984 and 1989 and completed a variety of geological, geochemical and geophysical surveys, and drilled 4,188.4 feet (1,269.2 metres) in eight holes (Woodcock, 1985a, 1985b; Blackwell, 1986a, 1986b; Jackish, 1987; MacRobbie, 1989). Aber

Resources Ltd. and Oliver Gold Corporation optioned the Sault claims in September of 1989 from J.R. Woodcock. Geochemical sampling, prospecting and a further 3,275 feet (992 metres) of drilling was completed. Minimal work was done on the Sault claims in 1990 prior to their return to Mr. Woodcock.

Several rich silver vein occurrences in the Illiance River valley to the south, and the upper tributaries of Lahte Creek have been repeatedly prospected, trenched, drifted into and drilled since the early 1900's. Assay values are commonly in the range of 1337.0 g/tonne (38 oz/ton Ag), 19.9% Pb, 30.0% Zn and 0.36% Cu across a 0.6 metre (2.0 foot) width (B.C. Minfile 103P-140).

Gold exploration has been largely centred along the highly visible rusty gossanous "Copper Belt" that extends for 14 kilometres (9 miles) along the west bank of the upper reaches of the Kitsault River. The Copper Belt is host to abundant, but variably mineralized gold-silver veins and zones of disseminated copper. Prior to 1939, 1,120 grams (36 ounce) of gold was produced from 8.2 tonnes (9 tons) of presumably hand cobbled ore from the Homestake Ridge showings (Black, 1951). In 1989, Noranda Exploration Co. Ltd. completed a 10,000 foot drill program along the Homestake trend, testing both the high-grade gold vein potential, as well as the low-grade, bulk tonnage Cu-Au potential. Noranda conducted a limited geological mapping and geochemical sampling program in 1990, and have since dropped their option with the property holder, NDU Resources Ltd. of Vancouver, B.C. Dolly Varden Minerals Inc. also conducted a large drill program along Red Point and the Red Point Extension in 1989. In spite of samples assaying up to 15.50 g/t over 1.95 metres (0.452 oz/ton Au over 6.4 feet), Dolly Varden was apparently discouraged by sporadic and generally uneconomic results. During 1989, two new discoveries were made by Bond International Gold in Hazelton Group rocks 25 kilometres (15 miles) to the north of the property area. The Red Mountain discovery at the headwaters of Bitter Creek consists of two zones; the Marc and Brad, which intersect each other on surface. The best drill intersection yielded 66 m of 9.88 g/tonne Au and 49.29 g/tonne Ag (216 feet of 0.28 oz/ton Au and 1.4 oz/ton Ag). A second discovery at the headwaters of Willoughby Creek; 6 kilometres (4 miles) to the east across the Cambria Icefield produced a drill intersection of 67 feet grading 20.5 m of 24.98 g/tonne Au and 184.21

g/tonne Ag (0.73 oz/ton Au and 5.3 oz/ton Ag) (Northern Miner, October 9, 1989). No recent information about these new discoveries has been released.

Molybdenum mineralization associated with Eocene intrusives in the area led to extensive exploration efforts beginning in 1965. The Lime Creek deposit 5 kilometres (3 miles) east of Alice Arm was mined by Kennco Explorations (Canada) Ltd. and B.C. Moly Corp. between 1967 and 1972. Amax of Canada Ltd. milled 4.1 million tonnes (4.5 million tons) of the 9.3 million tonnes (10.2 million tons) of stockpiled ore to produce 10.5 million kilograms (23.2 million pounds) of molybdenum during 1981 and 1982 (B.C. Minfile 103P-120). The mine and mill and Kitsault townsite are now closed indefinitely. The Ajax deposit located on Mount McGuire just southwest of the Jade-Skuch claims has a drill defined reserve of 1143.7 million tonnes (1,162.0 million tons) grading 0.09% molybdenum (Dawson and Alldrick, 1986), making it the largest undeveloped reserve of molybdenum in the province.

The entire Kitsault belt has been the subject of numerous regional reconnaissance geochemical surveys including Newmont (1967) and Cominco (1985). Geological Survey of Canada Regional Geochemical Survey coverage was also conducted in 1978.

2.5 Objectives of the 1991 Work Program

The 1991 work program was intended to focus entirely on the Big Bulk Cu-Au porphyry prospect located on Kinskuch Lake. The objectives of this work were to better establish the areas of known copper mineralization, outline the extent of gold enrichment with the system and map alteration types in relation to mineralization.

3.0 GEOLOGY

The Kitsault area has been the subject of numerous geological studies beginning with preliminary work by Hansen (1935) on the Portland Canal area. The first detailed study was undertaken by Black (1951), but it focused on the Kitsault River area and the Dolly Varden silver camp. Gale (1957) completed a masters thesis study of the Kinskuch Lake area. Campbell (1959) published a detailed study of the Torbit silver mine in 1959 in Economic

Geology. Grove (1971) mapped the area in 1971 as part of his study of the geology of the region extending from Observatory Inlet to the Unuk River, published in 1986. Aldrick et al. (1986) produced an open file map of the entire Kitsault area in 1986. Devlin (1987) completed a masters thesis on the Dolly Varden silver camp. Greig began a doctoral thesis study for the G.S.C. in 1990. His work for the 1990 and 1991 field seasons are reported in preliminary reports both published in this year. Greig's work is to date the most comprehensive regional work of the Lavendar Peak to White Glacier area.

3.1 Regional Geology

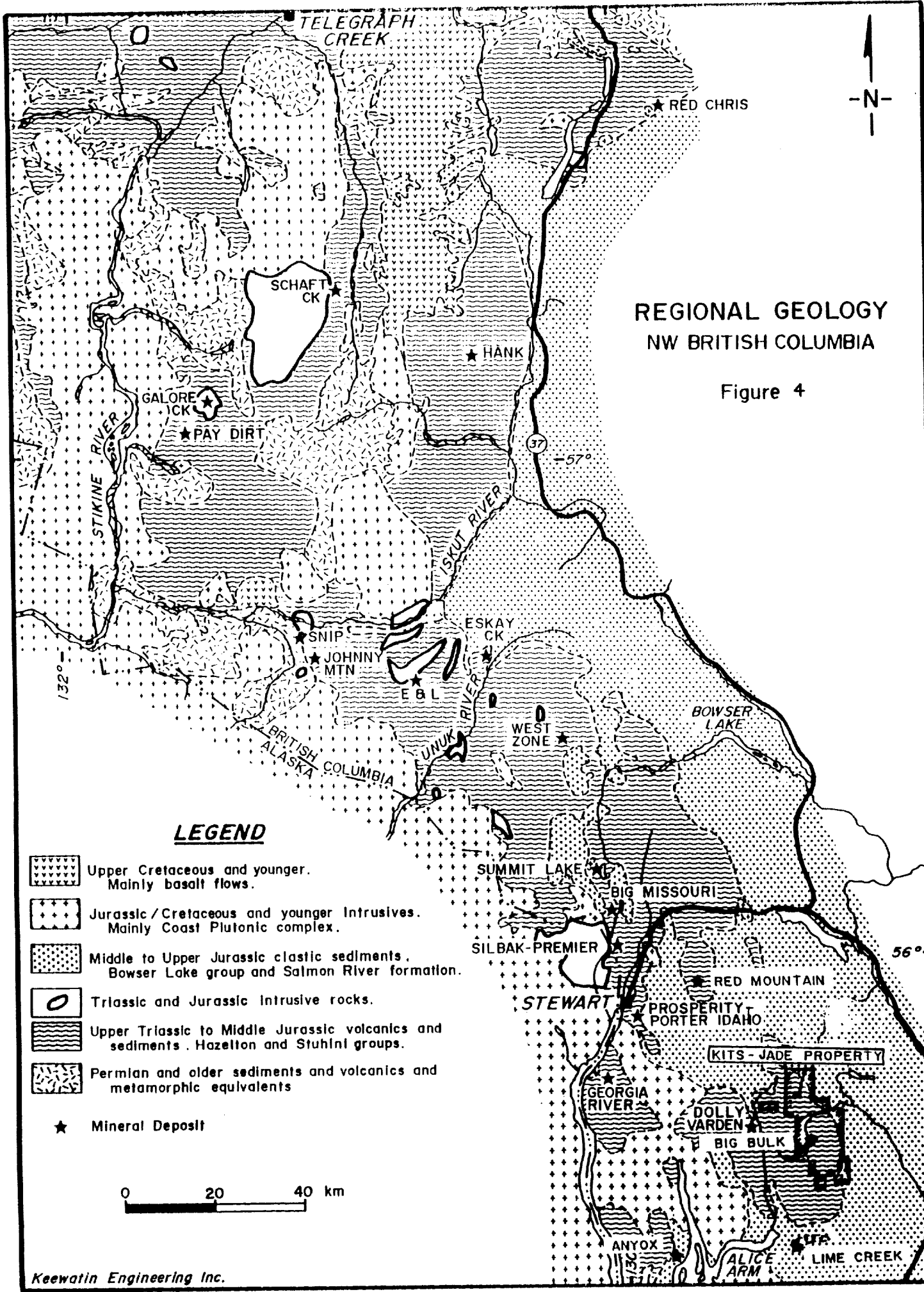
The Kits-Jade project area, within Stikinia terrain, is underlain by Upper Triassic sedimentary rocks of the Stuhini Group and Lower to Middle Jurassic volcanic and sedimentary rocks of the Hazelton Group at the western margin of the Intermontane Tectono-stratigraphic Belt (Figure 4). The Hazelton Belt is bounded to the west by the plutonic complexes of the Early Eocene Coast Mountain Range, and to the east by the thick Middle to Upper Jurassic-Cretaceous Bowser Basin sedimentary package.

Greig (1991) has elaborated significantly on the work of Aldrick (1986). Greig (1991) identifies six main units in the Kinskuch Lake area (Figure 5).

Stuhini Group: Late Triassic and Older

Unit 1: Fine grained clastic rocks

The Stuhini Group is represented by a package of predominantly black, brown weathering thin bedded siltstone and fine grained sandstone exposed in a north-south trend west of Kinskuch Lake and north of Porphyry Mountain. The unit is also exposed north of Kinskuch Lake, extending to Jade Lake where it is comprised of a greater proportion of siliceous black, pale green and pale grey radiolarian chert. Greig (1991b) reports the identification of Upper Triassic conodonts from discontinuous limy lenses near the top of this unit. The base of Unit 1 is not exposed in the map area.



TELEGRAPH CREEK

★ RED CHRIS

SCHAFT CK ★

★ HANK

GALORE CK ★

★ PAY DIRT

STIKINE RIVER

ISKUT RIVER

37

-57°

132°

★ SNIP

★ JOHNNY MTN

★ EBL

ESKAY CK

★ WEST ZONE

BRITISH ALASKA COLUMBIA

UNUK RIVER

BOWSER LAKE

SUMMIT LAKE

BIG MISSOURI

SILBAK-PREMIER

56°

★ STEWART

★ PROSPERITY PORTER IDAHO

KITS-JADE PROPERTY

★ GEORGIA RIVER

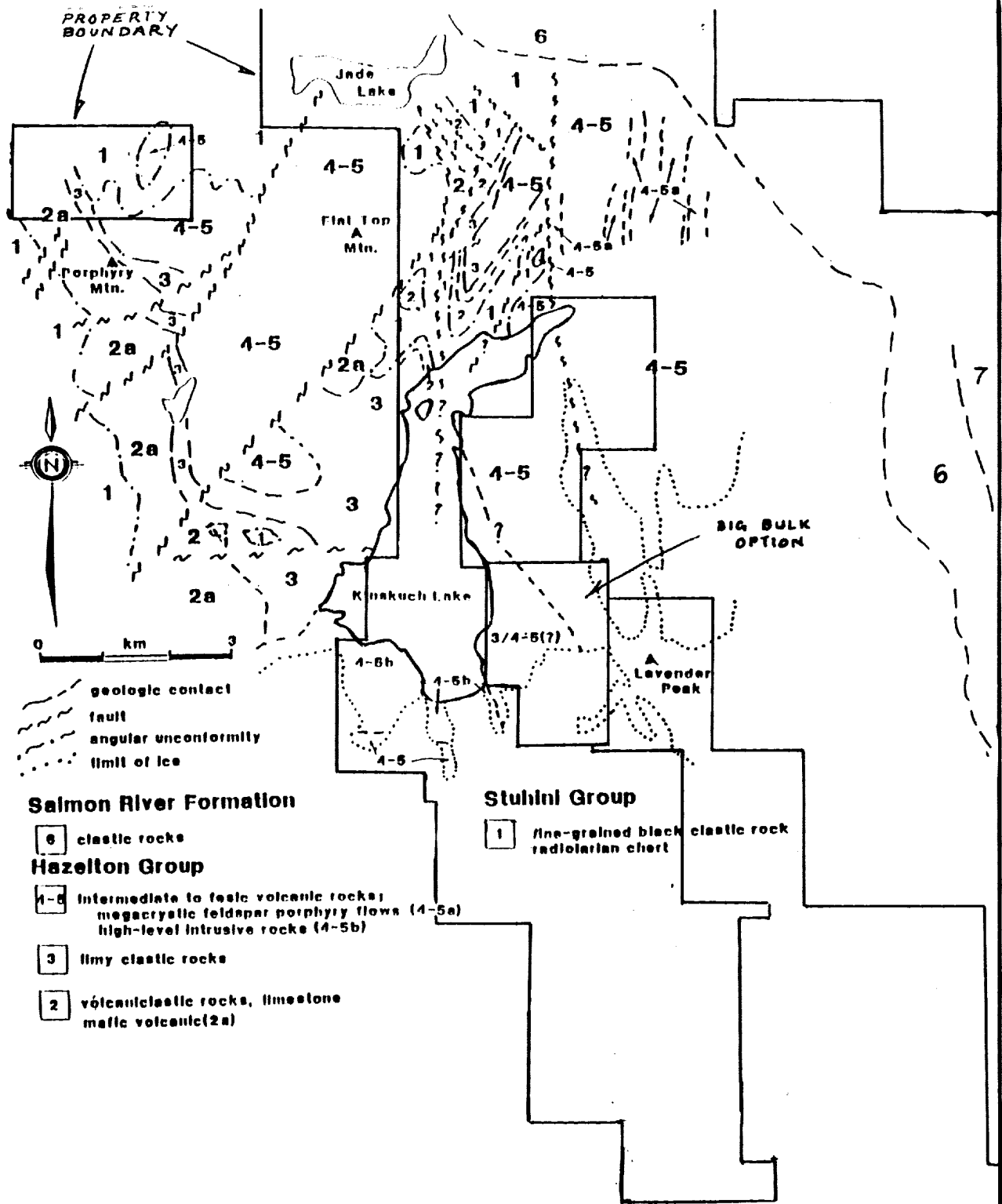
★ DOLLY VARDEN

★ BIG BULK

★ ANYOX

★ ALICE ARM

★ LIME CREEK



Geology by C.J. GREIG, G.S.C.

1991

| | |
|----------------------------|---------------------|
| OLIVER GOLD CORP. | |
| KITS / JADE PROJECT | |
| KINSKUCH LAKE AREA | |
| GEOLOGY | |
| DATE: Nov. 1991 | NTS: 103 P / 11, 14 |
| PROJECT: | PROJ. GEOL. DWT |
| SCALE: 1:100,000 | |
| Keewatin Engineering Inc. | MAP No. 5 |

Hazelton Group: Lower Jurassic

The contact between the Lower Jurassic Hazelton Group rocks and the underlying Stuhini Group rocks is marked by a major angular unconformity and locally distributed limestone breccias and chert bearing clastic rocks.

Unit 2: Mafic volcanic and volcanoclastic rocks and limestone

Unit 2 is principally distinguished by its stratigraphic position at the base of the Hazelton Group; but also by the common presence of pyroxene and angular chert grains and fragments. The unit has two sub-units including a massive pyroxene-bearing pyroclastic (Unit 2a) that extends south-southeast from Porphyry Mountain, and a thinner, mainly sedimentary package occurring west and north of Kinskuch Lake.

Unit 3: Limy clastic rocks

This unit conformably overlies unit 2 where it extends along the west side of Kinskuch Lake and north-northwest to Porphyry Mountain. The lower and upper parts include lahar, considered by Greig (1991b) to be facies equivalents of coarse pyroclastic deposits of units 2 and 4.

Units 4 and 5: Intermediate and felsic pyroclastic rocks and associated flows, clastic rocks and high level intrusive rocks

Units 4 and 5 are locally highly variable in composition, suggestive of regional scale facies changes. These units comprise the thickest local member of the Hazelton Group and conformably overlie unit 3. The most common lithology is a green and locally maroon massive crystal lithic ash tuff occurring at any stratigraphic level within units 4 and 5. At Flat Top Mountain, unit 4 includes massive, coarse lapilli tuff and tuff breccia which grades northward into massive debris flows and siliceous tuffaceous sandstone and siltstone. Northeast of Jade Lake this unit grades upward into and is

interbedded with siliceous siltstones of unit 6. Northeast of Kinskuch Lake, megacrystic potassium feldspar porphyritic flows (unit 4-5a) of probable dacitic composition occur interbedded with pyroclastics of units 4 and 5. At the south end of Kinskuch Lake, high level intrusive rocks (unit 4-5b) have been identified in thin section as a sericite-actinolite-chlorite altered pyroxene potassium feldspar rich granodiorite to quartz-monzodiorite (Leitch; 1991). At its western margin, the unit includes both intrusive and extrusive components, but at its eastern margin, textures are obscured by the intense alteration associated with the Big Bulk mineralization.

Salmon River Formation: Lower Jurassic

Unit 6: Siliceous clastic and volcanoclastic rocks

The base of the Toarcian Salmon River Formation is marked by a thin bedded rusty siltstone which sits paraconformably on silt matrix-rich pyroclastics of the uppermost Hazelton Group. The Salmon River Formation is comprised of predominantly dark grey siltstones with lesser, massive dark green sandstones and pebble conglomerates.

Bowser Lake Group

Unit 7: Pale grey weathering clastic rocks

The Bowser Lake Group conformably overlies the Salmon River rocks, which are distinguished by their thinner bedded sandstones and pale weathered colour.

Structure

The structural geology of the region is summarized by Greig (1991b) as follows:

The eastern margin of the Kinskuch basement culmination is the locus for southwest vergent folds in the cover rocks (Greig, 1991a), and structural trends and vergence conform, in part, to the orientation of the margins of the culmination. In the Kinskuch area, several major reverse faults involve basement rocks; these may in part accommodate some of the shortening observed in cover rocks of the Bowser Lake Group and Salmon River Formation.

Greig (1991) has mapped a number of major structures at the north end of Kinskuch Lake (Figure 5), modifying Alldrick's (1986) interpretation. No significant structures have been mapped in the Big Bulk area.

3.2 Property Geology

The Kits-Jade Project area was acquired by the joint-venture group to include the upper portion of the Hazelton stratigraphy and the overlying Salmon River Formation (Figure 5), based upon Alldrick's (1986) regional geological interpretation.

The Big Bulk area (Figure 6) is underlain by Hazelton Group stratigraphy, as mapped by the author, Greig (1991a, 1991b), and Gale (1957). A package of intermediate to felsic volcanic flows (Leitch, 1991) in, spacial association with a high level granodiorite to quartz monzonite intrusion, hosts the Big Bulk chlorite-pyrite-sericite-carbonate-albite-epidote alteration that has been the focus of this years work. Similar alteration 3 kilometres (1.8 miles) to the southwest has been identified by Keewatin crews (Tupper et al., 1990) on the joint-venture groups Skuch 12 and 13 claims. Known as the Midnight Blue, a 500 metre by 200 metre Cu-Au-Pb-Zn-As soil anomaly outlines the Big Bulk system, the central 3 kilometre portion of which is obscured by glaciers.

3.2.1 Rock Types

The stratigraphy of the Big Bulk area includes four distinct units of the Lower Jurassic Hazelton Group (Figure 6). These include the following:

Unit 1: Limy Clastic Rocks (also unit 3 in Regional Geology legend; Figure 5)

The unit is comprised of rusty weathering, thin bedded dark grey siltstone, limy arkosic wacke and limy bioclastic sedimentary breccia. The unit occurs on the western shoreline of Kinskuch Lake, and possibly as isolated intercalations within unit 2.

Unit 2: Intermediate to Felsic Volcanics Flows(?)

This unit is extensively altered (chlorite-pyrite-sericite-carbonate-epidote), making original composition and diagnostic features difficult to identify. This unit could be part of the overlying unit 3. Petrographic studies (Leitch, 1991; Appendix IV) were conducted on four specimens taken from copper enriched zones in the area. The specimens, KTS91-03, -04 and -05 are from the Marla, Tracey and Twyla Zones, respectfully. Specimen KTS91-06 is from the bottom of the 1982 Tracey Zone drill hole, DDH82A-3 (at approximately 166 metres; 165.2 m to 168.3 m assayed 0.72% Cu; Livingstone, 1982).

Based upon relic quartz phenocrysts in specimens KTS91-03, -04 and -05, this unit is considered to have been comprised of intermediate to felsic (?quartz andesite to rhyodacite) volcanic flows. This is supported, according to Leitch, by the additional presence in specimen KTS91-04 of relic biotite and probable hornblende phenocrysts.

This unit has undergone widespread and varied alteration. A minimum of 1% pyrite is ubiquitous, causing rusty weathering on many outcrops. However, due to relatively recent ablation of glacial ice, large areas of very fresh rock (Bonnie and Marla Zones) do not appear rusty. The unit generally appears dark green, although maroon, pale grey and mottled outcrops are also common.

Unit 3: Green and Maroon Andesite Lapilli Tuff-Breccia

Predominated by green and maroon massive andesite lapilli-tuff-breccias, this mauve and pale green weathering unit grades upward into more heterogenous and more felsic volcanic rocks in the Big Bulk area (Greig, 1991a). Regionally referred to as Unit 4, this unit is in sharp contact with the highly altered underlying unit 2. It is probable that unit 3 was chemically and/or structurally more receptive to the alteration and mineralization, although a stratigraphic break is not entirely ruled out.

Unit 4: High Level Granodiorite to Quartz Monzonite (and extrusive equivalents)

Locally rusty, green-brown weathering, green-grey, medium grained poikilitic, sericite-actinolite-chlorite altered pyroxene and potassium feldspar -rich granodiorite to quartz monzonite (Leitch, 1991) outcrops across the southern shoreline of Kinskuch Lake. Greig (1991b) has mapped this unit as a high level intrusion. To the west, both extrusive and intrusive forms of this unit are found. To the east, the Big Bulk alteration overprints all textures, obscuring contacts and textural variations. Petrographic study of a specimen from the copper and gold-rich Bonnie Zone (Figure 7) suggests an albite-chlorite-sericite altered igneous rock of probable mafic composition (Leitch, 1991).

Unit 5: Late Lamprophyre and Andesite Dykes

Several dark green-brown, metre wide lamprophyre dykes occur in the Big Bulk area. They generally extend hundreds of metres in an east-northeast direction. On the Seabee Zone, a dyke up to 5 metres thick occurs. The lamprophyre dykes are commonly magnetic and display obvious chill margins. Andesite dykes are not common. They weather green, and are distinguished from wall rocks by their fine texture and chill margins.






3.2.2 Metamorphism and Alteration

The regional metamorphic grade in the Kinskuch Lake area is sub-greenschist facies (Alldrick, 1986). Extensive alteration is found in the Big Bulk area, including chlorite-pyrite-sericite-carbonate-albite-epidote related to the Big Bulk copper gold porphyry prospect.

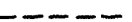








3.2.3 Structure

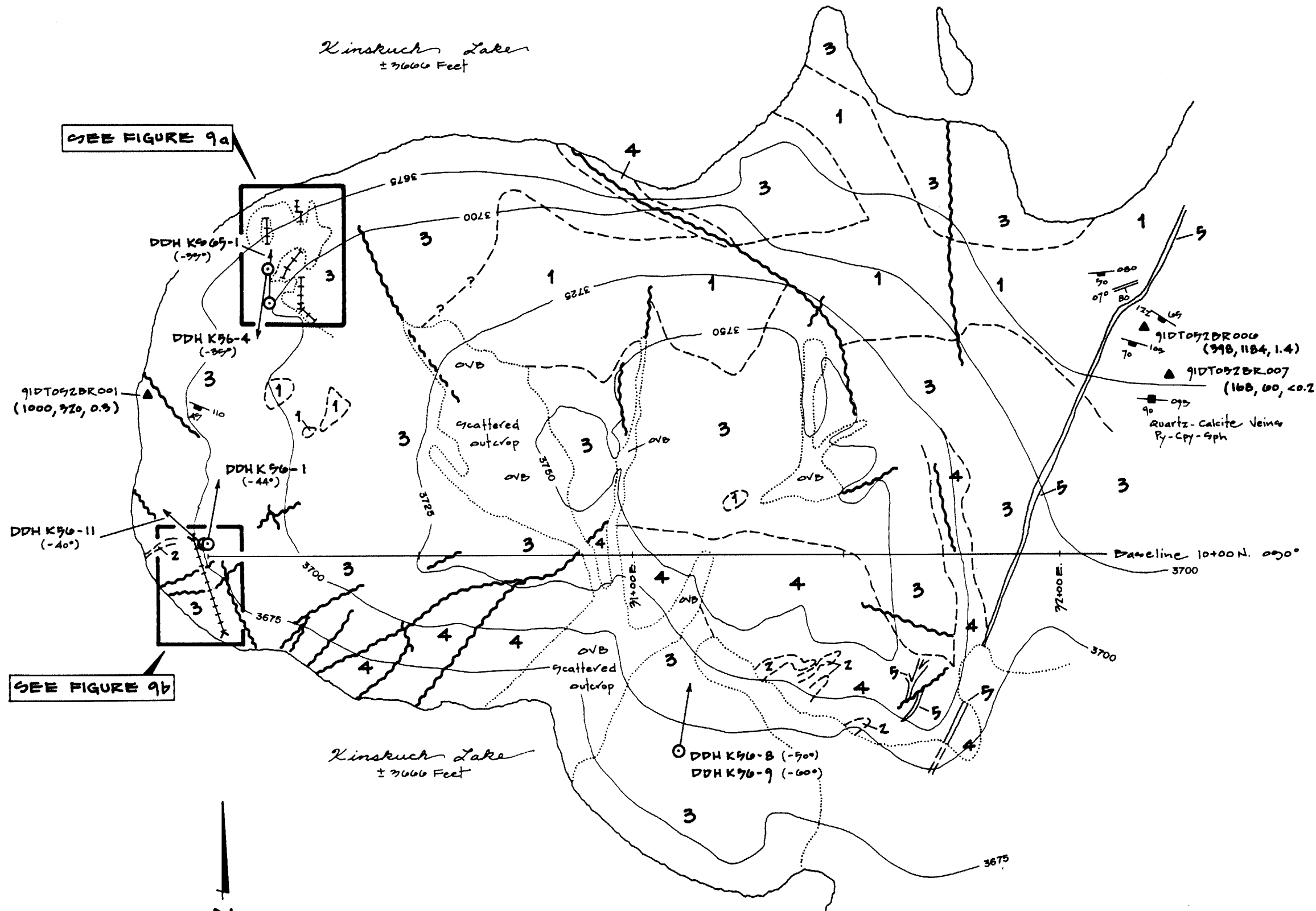
No notable structures have been identified in the Big Bulk area. A common 080° to 120° vein, joint, foliation and shear orientation has been noted, but has no obvious property scale significance. Further work may reveal an east-west control to the copper mineralized zones.

EXPLANATION

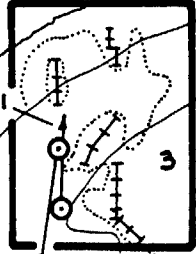
-  Late basic dyke
-  Heavy brown carbonate relatively barren
-  Carbonate, chlorite, pyrite and variable chalcopyrite
-  Sericite, pyrite
-  More abundant epidote, pyrite "Dioritic" in part

SYMBOLS

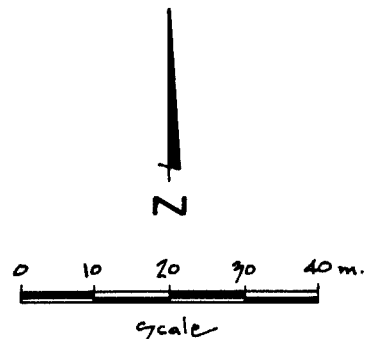
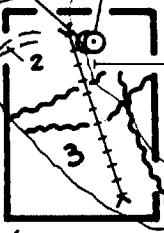
-  Gradational contact
-  Fault
-  Vein attitude
-  Dyke attitude
-  overburden
-  Diamond Drill Hole
-  Grab sample (ppm Cu, ppb Au, ppm Ag)
-  Channel sample
-  Trench



SEE FIGURE 9a



SEE FIGURE 9b



| | |
|--------------------------------|--------------------|
| OLIVER GOLD CORPORATION | |
| KITS/JADE PROJECT | |
| BIG BULK Cu - Au AREA | |
| GEOLOGY MAP | |
| BONNIE ZONE PENINSULA | |
| DATE: Nov. 1981 | NTS: 103 P / 11 W. |
| PROJECT: 052 | PRJ. GEOL. D.W.T. |
| SCALE: 1:11000 | |
| Keewatin Engineering Inc. | MAP No. 7 |

3.2.4 Mineralization

The Big Bulk area includes a number of zones of disseminated copper mineralization. Copper mineralization is commonly found in green, sericite-chlorite albite altered rocks with minor rusty weathering. Secondary malachite and azurite are commonly found only on fracture surfaces. The more jarosite and iron stained outcrops are generally less mineralized. The best copper values are obtained from this pyrite chalcopyrite veinlet (1-5 mm) stockwork zones that have a general east-west orientation. Very little quartz and calcite occurs along the mineralized fracture surfaces.

Six notable zones of disseminated copper mineralization are known: the Twyla, Tracey, Metallica, Marla, Bonnie and Seabee (Figure 6).

Twyla Zone

Located just north of the moraine along the east shoreline of Kinskuch Lake, and mineralized Twyla Zone was expanded considerably by prospecting in 1991. The area of known copper mineralization extends over an area of approximately 200 metres by 200 metres (650 feet by 650 feet). Twelve grab samples spread over this area returned values over 1,500 ppm Cu, with a high of 12,362 ppm Cu (sample 91DT052BF014) from a float sample and 6,319 ppm Cu (sample 91AM052BR003) from outcrop. Anomalous gold values are spotty ranging to 698 ppb Au (sample 90EER1). Soil samples collected on grid lines outline the zone with samples ranging up to 1,700 ppm Cu and 370 ppb Au (L34+00E/35+50N).

| Zone | Sample No. | Sample Type | Cu (ppm) | Au (ppb) |
|-------|-------------|-------------|----------|----------|
| Twyla | 91AM052BR03 | grab | 6,319 | trace |
| | 91AM052BR08 | grab | 5,763 | trace |

Petrographic study of specimen KTS91-05 from the zone suggests an intermediate to felsic volcanic rock that has undergone very intense sericite-iron carbonate-chlorite-quartz alteration. The zone has local magnetite-rich zones spatially associated with the copper

mineralization. This correlation is highlighted by a magnetometer anomaly in the vicinity (Amendolagine, 1965).

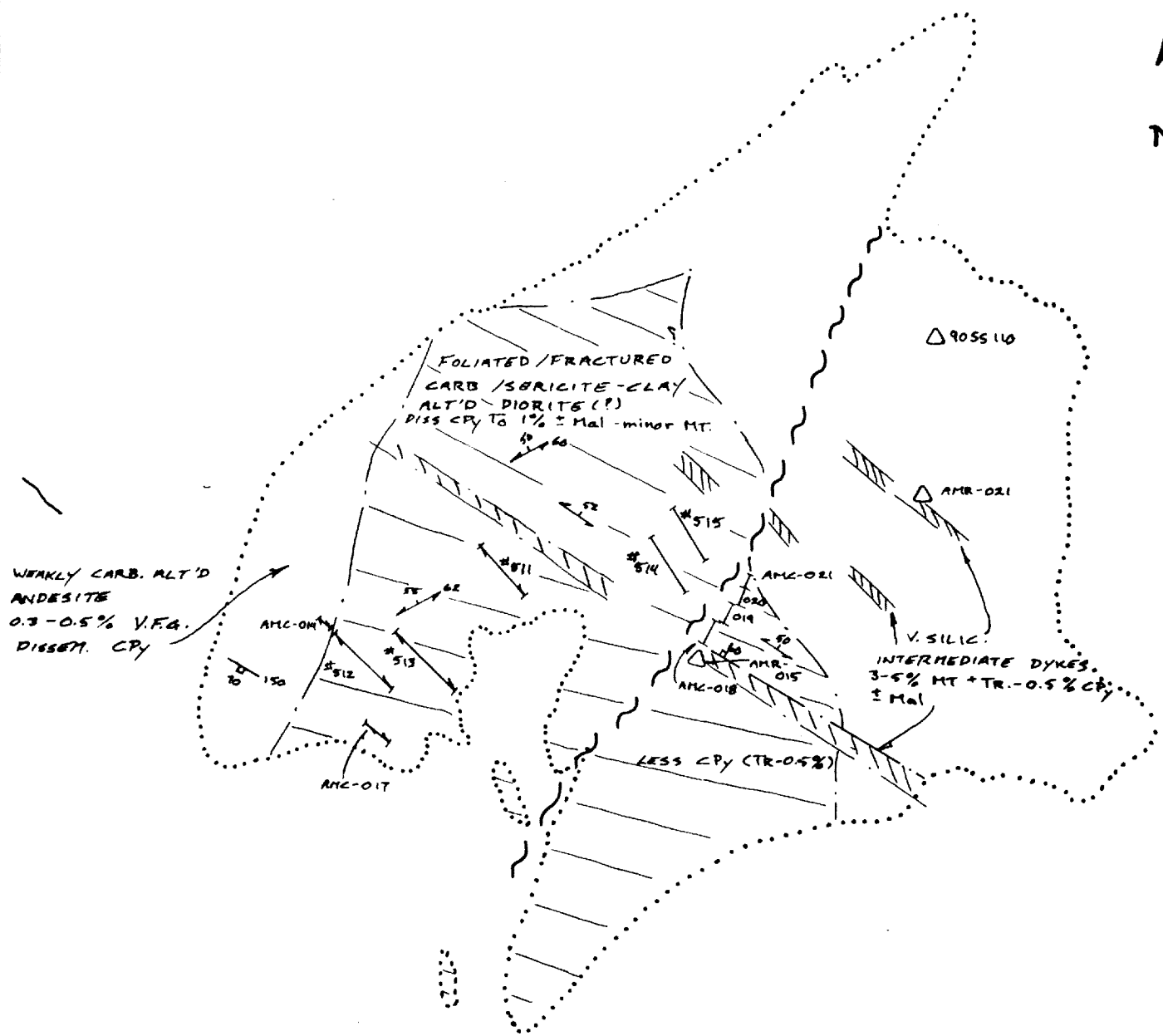
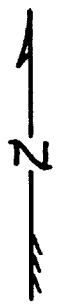
Tracey Zone

The Tracey Zone is an area approximately 150 metres by 300 metres (500 feet by 1,000 feet) located north of the moraine between elevations of 1,150 metres and 1,460 metres (3,800 feet and 4,800 feet). The Tracey Zone was the focus of exploration efforts in 1980 and 1982 (Livingstone, 1980; Cavey, 1980; Livingstone, 1982), that included 883 metres (2,899 feet) of drilling. Surface sampling in 1991 produced the following results (Figure 8).

| Zone | Sample No. | Sample Type | Sample Width (m) | Cu (ppm) | Au (ppb) |
|--------|-------------|-------------|------------------|-----------|----------|
| Tracey | 91AM052BC13 | chip | 3.0 | 0.48% | 603 ppb |
| | 91AM052BC17 | chip | 5.0 | 0.36% | 321 ppb |
| | 91AM052BC18 | chip | 4.0 | 0.29% | trace |
| | 91AM052BC19 | chip | 4.0 | 0.44% | trace |
| | 91AM052BC20 | chip | 4.0 | 0.29% | trace |
| | 91AM052BC21 | chip | 2.0 | 0.40% | trace |
| | 91AM052BC24 | grab | | 7,677 ppm | trace |
| | 91AM052BC25 | chip | 4.5 | 0.59% | trace |

Samples taken by Prism Resources Ltd. (Cavey, 1980) produced similar copper values, but generally higher and more consistent gold assays (Figure 8). Three of the five holes drilled by Procan Resources Ltd. suggest that the Tracey Zone trends east-west. These holes, collared from the same, returned the following results:

| Zone | Hole No. | Interval (m) | Width (m) | % Cu | Au |
|--------|----------|---|-----------|------|-------------|
| Tracey | BB82A-1 | 7.0 - 148.3 | 141.3 | 0.24 | trace |
| | BB82A-2 | 6.2 - 125.0 | 118.8 | 0.31 | trace |
| | BB82A-3 | 165.2 - 168.3 (abandoned at 168.3 m) | 3.1 | 0.72 | not assayed |



| SAMPLE # | Cu ppm (%) | Au ppb (oz./t) | LENGTH m. |
|---------------|------------|----------------|-----------|
| 91AM052BC-014 | (0.10) | 26 | 2 |
| R-015 | 3770 | 37 | GRAB |
| C-017 | (0.36) | 821 | 5 |
| C-018 | (0.29) | 82 | 4 |
| C-019 | (0.44) | 63 | 4 |
| C-020 | (0.29) | 53 | 4 |
| C-021 | (0.40) | 45 | 2 |
| R-022 | 4971 | 45 | GRAB |
| # 511 | (0.536) | (0.015) | 17 |
| # 512 | (0.715) | (0.051) | 13 |
| # 513 | (0.575) | (0.022) | 17 |
| # 514 | (0.410) | (0.012) | 12 |
| # 515 | (0.705) | (0.009) | 15 |

- 1980 SAMPLES - PRISM RESOURCES



OLIVER GOLD CORP.

KITS / JADE PROJECT
TRACEY ZONE

DETAIL SKETCH

| | |
|---------------------------|-------------------|
| DATE: Nov. 1991 | NIS: |
| PROJECT: 052 | PRJ. GEOL: D.W.T. |
| SCALE: 1:1000 | |
| Keewatin Engineering Inc. | MAP No. B |

Mineralization is predominantly composed of disseminated pyrite and chalcopyrite, although, pyrite-chalcopyrite fracture coatings can also be found. Chalcopyrite mineralization is reported to increase directly in proportion to the fracture density in the andesites, although abundant chalcopyrite was also found disseminated in a hornblende(?) porphyry dyke (Cavey, 1980). Magnetite was observed locally.

Alteration reported in thin section (KTS 91-04) is predominated by sericite and chlorite, and secondly albite and carbonate. The original composition is considered to have been an intermediate to felsic volcanics flow, as suggested by minor phenocrysts of quartz.

Metallica Zone

The Metallica Zone is located along the northeast edge of the moraine measuring approximately 300 metres (1,000 feet) by 150 metres (500 feet) between the elevations of 1,250 metres and 1,460 metres (4,100 feet and 4,800 feet). Sampling returned the following results:

| Zone | Sample No. | Sample Type | Width (m) | Cu (ppm) | Au (ppb) |
|-----------|-------------|-------------|-----------|-----------|----------|
| Metallica | 91AM052BR26 | grab chip | 16.4 | 3,514 ppm | trace |
| | 91AM052BC27 | | | 0.74% | trace |

The Metallica Zone is crosscut by a quartz-calcite-massive chalcopyrite vein system exposed over 300 metres (1,000 feet) of strike. The vertical dipping vein varies from 0.3 metres (1 foot) to 1 metre (3 feet) in width, striking 120°. Grab samples from the vein assayed up to 31.2% Cu, but generally returned values less than 100 ppb Au.

Marla Zone

The Marla Zone extends approximately 800 metres (2,600 feet) east-west between 1,200 metres (3,900 feet) and 1,500 metres (4,900 feet) in elevation. Samples taken in 1991 include:

| Zone | Sample No. | Sample Type | Width (m) | Cu (ppm) | Au (ppb) |
|-------|--------------|--|-----------|------------|----------|
| Marla | 91DT052BR012 | grab | 7.5 | 3,059 ppm | trace |
| | 91DT052BR027 | grab | | 9,040 ppm | trace |
| | 91DT052BR032 | grab | | 2,312 ppm | trace |
| | 91DT052BR041 | grabs (spaced 10 metres over a total width of 50 metres) | | 2,599 ppm | trace |
| | 91DT052BR042 | | | 4,846 ppm | trace |
| | 91DT052BR043 | | | 9,816 ppm | 312 ppb |
| | 91DT052BR044 | | | 1,496 ppm | 212 ppb |
| | 91DT052BR045 | | | 3,523 ppm | trace |
| | 91DT052BR046 | grab | | 11,157 ppm | trace |
| | 91DT052BR047 | grab | | 11,280 ppm | trace |
| | 91AM052BC031 | chip | | 0.76% | trace |

Two holes drilled into the Marla Zone by Kennco in 1956 (reported by Livingstone, 1980; locations reported in Gale, 1957) returned the following results:

| Hole No. | Width (m) | Cu% |
|-----------|-----------|------|
| DDH56A-7 | 74.1 | 0.33 |
| DDH56A-12 | 79.2 | 0.17 |

Samples taken of core stored in aluminum trays near the camp site area is considered to date back to the 1956 Kennco drilling. The sections sampled were previously unsplit and unsampled.

| Hole No. | Sample No. | Footage | Cu ppm |
|----------|---------------|-----------|--------|
| DDH A-7 | 91DT052BR-052 | 0 - 96 | 1,895 |
| DDH A-7 | 91DT052BR-053 | 96 - 200 | 1,313 |
| DDH A-7 | 91DT052BR-054 | 200 - 351 | 882 |

The Marla Zone has undergone extensive sericite alteration (55% sericite reported in thin section KTS 91-03). The area around the Marla Zone is very rusty weathered, and locally, highly fractured, suggesting a core of phyllic alteration. Pyrite and chalcopyrite mineralization

is generally confined to fracture surfaces. Zones rich in magnetite were found, notably at lower elevations.

Bonnie Zone

The Bonnie Zone includes much of the rocky peninsula that extends into the southeast corner of Kinskuch Lake (Figure 7). As the original showing on the property, the Bonnie Zone has been repeatedly sampled and drilled. Drilling conducted on the Bonnie Zone in the 1950's (Kennco) and 1960's (Forrest Kerr, Cyprus) returned results of up to 16.2 m (53 feet) assaying 1.22% Cu. Kennco outlined a reserve on the Bonnie Zone of "... a few million tons 0.4% Cu ..." (Livingstone, 1980).

Sampling undertaken in 1991 include a 27.9 metre (91.5 foot) channel sample (Figure 9a) and a 24 metre (78 foot) blasted trench (Figure 9b). The channel sample was taken on the north side of the peninsula, and although not continuous, is considered to be representative of the area. The trench was chip sampled in continuous 2 metre (6.6 foot) samples.

| Zone | Sample No. | Width (m) | % Cu | As |
|--------|---|-----------|------|--------------|
| Bonnie | 91VM052BC001 to 014 and 91AM052BC001 | 27.9 | 1.25 | 0.029 oz/ton |
| | 91DT052BC015 to 026 | 24.0 | 0.18 | trace |

Mineralization on the Bonnie Zone is very well exposed due to recent ablation of the glacier, leaving the outcrops glacially polished, completely exposed over about 50% of the area, and relatively unweathered. Stockworks of pyrite-chalcopyrite veinlets comprise between 1 and 5% of the rock. The veins are irregular, although the most predominant orientation is between 080° and 120°. A polished thin section study of specimen KTS91-02 (Leitch, 1991; Figure 9a) notes that the veins are comprised of coarse cubic pyrite (to 3 m across), fine anhedral chalcopyrite (up to 1 mm across), fine muscovite, subhedral quartz grains, elongate calcite and irregular masses of chlorite. The chalcopyrite forms thin veins (probably

1.44 / 0.029 / 5.1
4.9 m.

91VM052BC001
0.90 / 0.013 / 2.9
1.6 m.

91VM052BC002
1.86 / 0.032 / 6.3
1.4 m

91AM052BC001
1.55 / 0.039 / 5.9
2.0 m.

91VM052BC003
1.69 / 0.038 / 6.9
2.0 m.

91VM052BC004
1.93 / 0.035 / 4.8
2.0 m.

1.90 / 0.037 / 5.7
6.0 m.

91VM052BC005
2.07 / 0.039 / 5.4
2.0 m.

1.08 / 0.031 / 4.8
6.0 m.

91VM052BC006
1.38 / 0.035 / 5.1
2.0 m.

91VM052BC007
1.27 / 0.038 / 6.8
2.0 m.

91VM052BC008
0.59 / 0.020 / 2.6
2.0 m.

1.01 / 0.026 / 3.2
7.0 m.

91VM052BC009
1.70 / 0.035 / 4.8
2.0 m.

91VM052BC010
1.13 / 0.028 / 3.3
2.0 m.

91VM052BC011
0.49 / 0.016 / 2.4
2.0 m.

0.44 / 0.022 / 1.2
1.0 m.

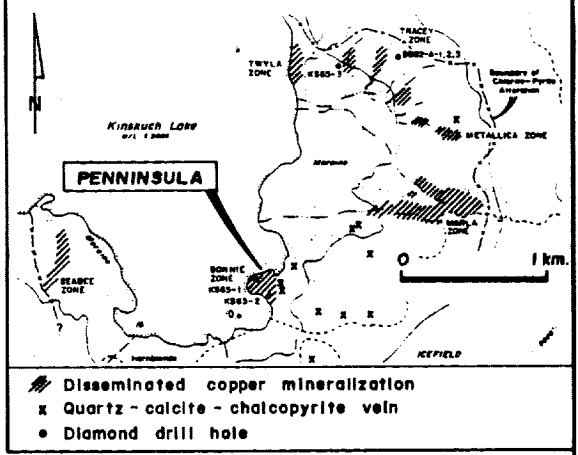
91VM052BC012
0.74 / 0.029 / 1.6
2.0 m.

91VM052BC013
0.67 / 0.016 / 2.6
2.0 m.

0.71 / 0.023 / 2.1
4.0 m.

91VM052BC014

1.25 % Cu / 0.029 oz / ton Au / *0.13 oz / ton Ag
27.9 metres (samples discontinuous)



- Disseminated copper mineralization
- Quartz-calcite-chalcopyrite vein
- Diamond drill hole

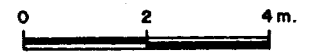
EXPLANATION

- Outcrop
 - Fault
 - Channel sample
 - Pyrite - Chalcopyrite stringer veins
 - Diamond drill hole
- | $\frac{1.93 / 0.035 / 4.8}{2.0 \text{ m.}}$ | $\frac{\text{Cu \%} / \text{Au oz./t.} / \text{Ag ppm}}{\text{Metres}}$ |
|---|---|
|---|---|

- * Ag values converted from ppm
- ★ Petrographic specimen KTS 91-02

GEOLOGY

Outcrops of green brecciated mafic (?) intrusive rocks with medium grained feldspar phenocrysts; alteration commonly albite-chlorite-sericite with 1-3% disseminated Py plus trace to 1% Cpy; irregular Py-Cpy veinlets comprise 2-8% of rock; veinlet orientation variable, but predominated by 090° to 110°, dipping south, malachite and azurite common.



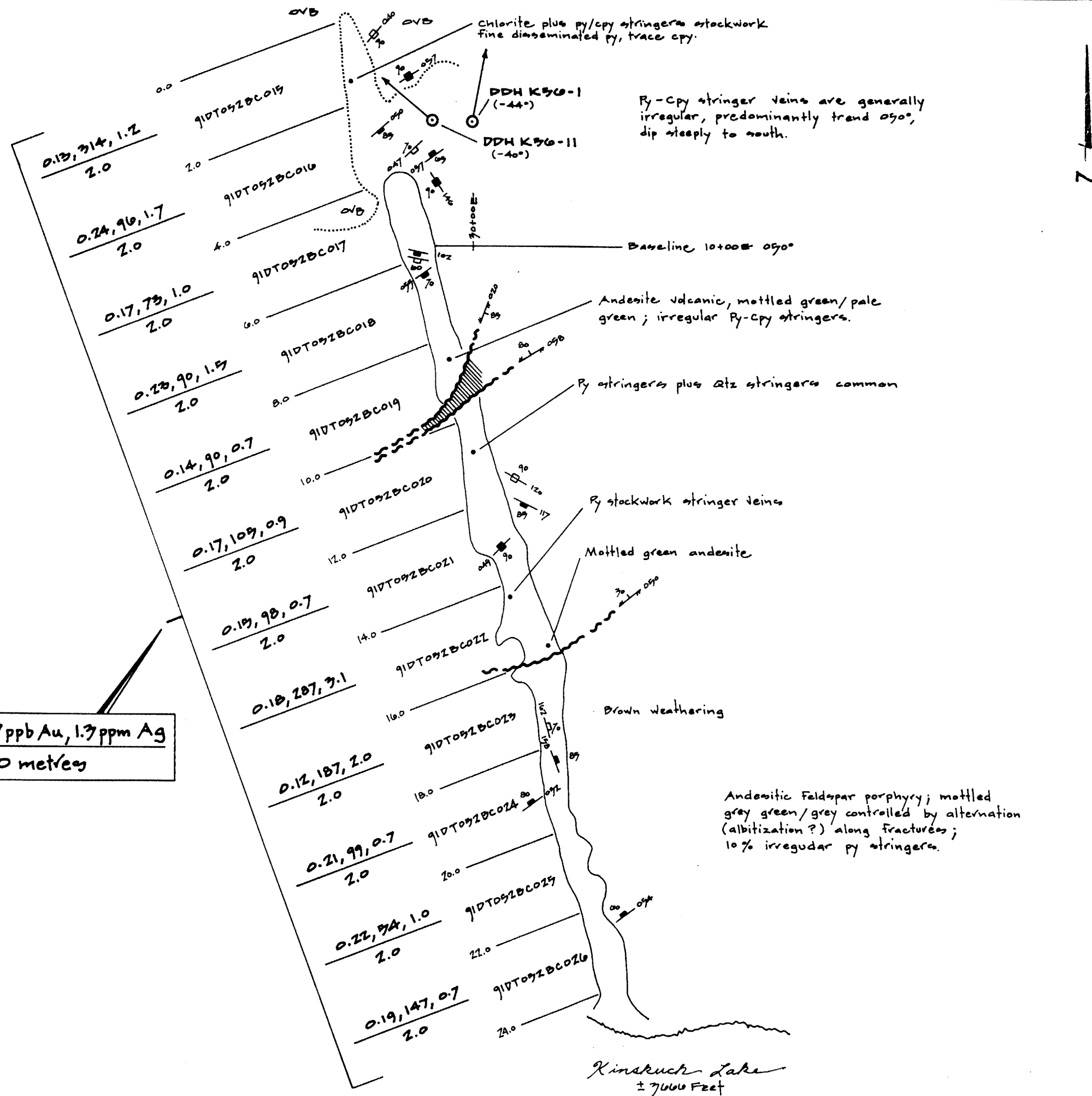
OLIVER GOLD CORPORATION

KITS / JADE PROJECT
BIG BULK Cu - Au AREA
BONNIE ZONE
PENINSULA CHANNEL SAMPLES

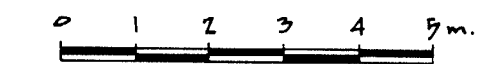
| | |
|--------------------------------------|---------------------|
| DATE: Oct. 1991 | NTS: 103P / 11 W. |
| PROJECT: 052 | PROJ. GEOL.: D.W.T. |
| SCALE: 1:125 | |
| KeeWatIn Engineering Inc. MAP No. 9a | |

K56-4 (-35°)

KS65-1
(Location approximate)
1.22 % Cu
16.2 metres



- EXPLANATION**
- OVB Overburden
 - outcrop
 - ~ shear
 - 047 70 Joint attitude
 - 057 05 Vein attitude
 - 020 05 Shear attitude
 - ⌋ Trench outline
 - ▨ Massive py shear lense (very fine grained)



OLIVER GOLD CORPORATION

KITS / JADE PROJECT
BIG BULK Cu - Au AREA
L30+00 TRENCH MAP
BONNIE ZONE PENNINSULA

| | |
|---------------------------|---------------------|
| DATE: Nov. 1991 | NTS: 103 P / 11 W. |
| PROJECT: 082 | PROJ. GEOL.: D.W.T. |
| SCALE: 1:100 | |
| Keewatin Engineering Inc. | MAP No. 9 b |

remobilized) crossing brittle pyrite. Chalcopyrite also occurs disseminated in the wall rock away from the veins in greater proportion than the pyrite. No other sulphides were observed.

The alteration observed in thin section includes predominantly chlorite and secondary alkali feldspar. The original textures are nearly destroyed. The original composition is considered to be a mafic igneous rock. Disseminated hematite imparts a reddish-green appearance.

The area east of the Bonnie Zone peninsula hosts numerous isolated zones of both disseminated pyrite-chalcopyrite and pyrite-chalcopyrite coated fractures and shears, and numerous east-southeast striking quartz-sphalerite-chalcopyrite-galena veins.

Seabee Zone

The Seabee Zone is located on the west side of Kinskuch Lake. Rock samples taken up a creek cut (Hog Creek) produced several anomalous results over 250 lineal metres (750 feet). Results from grab samples include 4,568 ppm Cu (sample 91SH052SR022) and 2,572 ppm (sample 91SH052SR016). Gold values are generally low (below 300 ppb).

The mineralization is disseminated in chloritic volcanics. The structural control of the zone is not understood at this time. The zone appears to follow the northwest trend of the creek.

²⁵ 3.3.3 Ore Controls

No major structures have been observed in the Big Bulk area. The predominant vein, fracture, foliation and shear orientation trends 080° to 120°. This is supported by the drill indicated trend of the Tracey Zone and the surface expression of the Marla Zone.

Chalcopyrite mineralization chlorite-albite zones appear to be crosscut by sericite-pyrite shear zones. The shears appear to completely destroy the chalcopyrite mineralization and may divide the mineralized zone into east-west trending zones. Some evidence of this is observed dividing the Twyla, Tracey, Metallica and Marla Zones. The sericitic-pyritic shears also appear to trend into the overlying unaltered maroon and green breccias of unit 3.

The unit hosting the widespread zone of alteration in the Big Bulk area may be the same as the overlying unit 3. If so, the controls on mineralization may be related to structural ground preparation as opposed to chemical receptiveness.

3.3 Economic Potential

In spite of the over 25 diamond drill holes and 11 packsack drill holes completed on the property, there are numerous large areas in which porphyry Cu/Au targets could be developed. These would include the Twyla, Tracey, Metallica and Marla areas, and notably the moraine area between.

The approximately 1 kilometre square (0.4 mile square) moraine area has only been drill tested on its margins. Hole DDH56A-13 drilled in 1956 by Kennco along the south edge of the moraine returned a sludge sample from the bottom of the hole over a total length of 80.5 metres (264 feet). Also, a Kerr Addison hole drilled in 1970, drilled in the moraine area (exact location is not known by the author) reportedly returned an 87.8 metre (288 foot) interval grading 0.22% Cu in a 224 metre (735 foot) hole (Livingstone, 1980). The moraine area provides a very large target for further exploration.

4.0 EXPLORATION AND DEVELOPMENT

The 1991 Kits/Jade work program was a continuation of previous efforts undertaken in the Big Bulk area in 1990 by Keewatin crews. This work also included an initial assessment of the newly acquired Skuch 14 claim. The work program involved a four man crew conducting mapping, prospecting, trenching, channel sampling and limited grid controlled soil sampling surveys.

4.1 Grid Establishment

A total of 1.8 kilometres (1.1 miles) of cut grid dating back to 1965 geophysical work was re-established for the collection of 36 soil samples in the area of the Twyla and Tracey Zones. The original north-south cut lines were established at imperial dimensions. New metric grid

numbers were assigned; 34+00E; 35+25E, 36+50E and 37+75E. An east-west tie-line 34+00N was flagged to give north-south control (Figures 10, 11 and 12).

Map control for plotting geologic and sampling locations were established by the use of air photo and elevation data. A government air photo and 1:50,000 scale map (NTS 103P/11) were enlarged to 1:5,000 scale for this purpose.

4.2 Prospecting

The bulk of the 1991 sampling work was based upon prospecting. Samples collected included 40 chip samples, 114 grab samples, 2 float samples and 8 reconnaissance soil samples.

4.2.1 Program

Prospecting was undertaken in conjunction with geological mapping. Traverses were undertaken primarily on the east side of Kinskuch Lake on the Big Bulk claims. Mapping and sampling traverses were also conducted to the south and west of the Lake on the Skuch 14 claim (Figure 10). The only area not investigated in 1991 is the area east of the Bonnie Zone peninsula. However this area was sampled in some detail in 1990.

Analysis was done by Bondar-Clegg and Company Limited of 130 Pemberton Avenue, North Vancouver, B.C. Sample analytical procedures are described in Appendix VII.

4.2.2 Results

The Cu and Au results of the 1990 and 1991 sampling programs are shown on Figures 11 and 12. The 1991 work greatly enlarges the area of known copper mineralization at the Twyla, Tracey, Marla and Seabee Zones. The new Metallica Zone was outlined this past field season.

The 1991 rock sample results from the Twyla, Tracey, Metallica, Marla, Bonnie and Seabee Zones are described in Section 3.3 of this report. All the samples are described in detail with

Cu, Au, Ag and Mo assay results in Appendix V. Complete assay results are recorded in Appendix VI.

The prospected soil samples taken to the south of the lake indicate a string of low Cu anomalies ranging to 438 ppm (sample 91SH052SS004), probably caused by a north-south linear sericitic shear.

4.3 Geological Mapping

4.3.1 Program

Mapping is often limited to the identification of alteration and mineralization in the Big Bulk area. The 1991 program focused on the area that rims the moraine on the Big Bulk claims. Areas also mapped were the ridge to the south of the lake and the west to southwest shore lines. Traverses were random in orientation, there being no major controlling stratigraphy or structures to delineate.

Petrographic studies were done of six specimens from the various mineralized zones and the intrusive rocks to the south. These provided valuable insights not easily gained from hand specimens. Future work should include more detailed petrographic studies. This work is described in greater detail in section 3.2.

4.4 Geochemistry

An old grid was used as the basis for the collection of 36 soil samples in the Twyla and Tracey Zones.

4.4.1 Program

Fifty metre (160 foot) spaced soil samples were collected on four approximately 125 metre (400 foot) spaced north-south lines (Figure 11 and 12). The samples were collected from north of the moraine area to the base of the cliffs (between 250 and 400 metres). Samples

Fifty metre (160 foot) spaced soil samples were collected on four approximately 125 metre (400 foot) spaced north-south lines (Figure 11 and 12). The samples were collected from north of the moraine area to the base of the cliffs (between 250 and 400 metres). Samples of B horizon soil were collected in brown kraft paper soil bags. Samples were taken by shovel. Analysis was done by Bondar-Clegg and Company Limited of 130 Pemberton Avenue, North Vancouver, B.C. Sample analysis is described in Appendix VII.

4.4.2 Results

There are coincident Cu and Au anomalies that extend along the most westward line across the Twyla Zone. Sample 35+00N on line L34+00E returned 1,700 ppm Cu and 370 ppb Au. The anomalous Cu and Au samples also outline a trend east across the three westernmost lines (approximately 250 metre (800 feet)) just north of the moraine.

All samples are described in Appendix V. Complete assays are recorded in Appendix VI.

4.4.3 Interpretation

An east-west trending Cu-Au anomaly was delineated by the soil geochemistry survey, possibly suggesting some continuity between the Tracey and Twyla Zones.

4.5 Trenching

On the Bonnie Zone, a single trench was blasted in bedrock and a series of 14 discontinuous channel samples were taken (Figure 7, 9a and 9b).

4.5.1 Program

Continuous chip samples were taken over 24 lineal metres (78.7 feet) of blasted trench on the south side of the Bonnie Zone peninsula. The weighted average over the entire trench was 0.18% Cu and 137 ppb Au. A series of discontinuous channel samples were taken to test a 27.9 metre (91.5 foot) linear section of well copper mineralized outcrop on the north side of

the peninsula. The samples were taken by chipping into a single 2.5 cm (1 inch) deep rock saw cut. Both zones are open on both ends. The samples averaged 1.25% Cu and 1.0 g/tonne (0.029 oz/ton) Au. The work is described in greater detail in section 3.2.4 in this report.

5.0 CONCLUSIONS

The Big Bulk area of the Kits-Jade property hosts an altered and mineralized (gold and copper) zone that extends over an area 2 kilometres by 3.5 kilometres (6,500 feet by 11,000 feet). The alteration can be largely classified as propylitic and phyllic with smaller zones of potassic alteration, as used to describe alkalic, volcanic hosted copper-gold porphyry deposit systems. The area surrounding the moraine on the east side of the lake (Twyla-Tracey-Metallica-Marla Zones) are dominantly propylitically altered (chlorite - pyrite - carbonate plus variable chalcopyrite). Phyllic alteration occurs locally. To the northeast, sericite-pyrite phyllic zones are controlled by east-northeast(?) trending shears and are considered to be later. Adjacent to the Marla, a large area of sericite-pyrite alteration weakly anomalous in copper occurs. The Bonnie Zone possibly occurs in the shell of the intrusive core, where potassic alteration has been noted.

The mineralized zones appear to trend east-northeast, divided by later sericitic-pyritic shears. This east-west trend is also thought to be important on the outcrop scale where pyrite-chalcopyrite veinlets predominantly trend between 080° and 120°. Gold mineralization is more sporadic, with the best grades found on the Bonnie Zone. Gold enrichment of zones within the system is considered highly probable. Grades of 0.3 g/tonne to 0.5 g/tonne (0.009 to 0.014 oz/ton) Au are indicated locally by surface sampling to date.

The contact between overlying unaltered breccias and the mineralized alteration zone appears shallow dipping in the north. This suggests that the zone may extend further north under the breccias, providing further exploration potential. Also, the alteration is expected to extend across the lake to the west. The immediate exploration target area is the moraine. Surrounded by copper mineralization, only drilled on the edges and the most likely site in

physiographic terms for open pit mining, this area would be the best site for more advanced exploration efforts. The Midnight-Blue area to the south also requires further work.

6.0 RECOMMENDATIONS

The Kits-Jade Project is highly recommended for further work. A proposed work program designed to further define geological controls and outline drill targets in the moraine area with a modern geophysical survey would be the best approach. A grid controlled geochemical soil survey on the Twyla-Tracey-Metallica areas, and possibly the Seabee zone, may also be useful in defining copper mineralization.

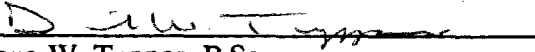
The following are recommended for a proposed work program:

1. Develop good mapping control with 1:2,500 and 1:5,000 scale orthophoto coverage.
2. Establish a picketed grid over area east of Kinskuch Lake.
3. Map alteration of the mineralized zones at 1:2,500 scale.
4. Conduct a detailed petrographic study.
5. Conduct detailed induced polarization and magnetometer geophysical surveys over the entire area on the east side of lake.
6. Possibly conduct a geochemical soil survey of the north area and Seabee Zone.
7. Trench zones (Bonnie) clear of overburden with high powered water pump for mapping and sampling.
8. Drill five 200 metre (700 foot) NQ diamond drill holes into best geophysical targets in moraine area.

A 40 to 60 day field season beginning late June employing a geological crew of 5 and a 3 man geophysical crew would be required.

Respectfully submitted,

KEEWATIN ENGINEERING INC.


Dave W. Tupper, B.Sc.

7.0 PROPOSED BUDGET (Phase I & II included)**Pre-Field****Personnel**

| | | | |
|--------------------|--------------------|-----------------|---------------------|
| Project Supervisor | 1 days @ \$425/day | \$ 425.00 | |
| Project Geologist | 7 days @ \$375/day | 2,625.00 | |
| Office | 2 hrs @ \$ 30/hour | 60.00 | |
| Maps, Orthophotos | | <u>7,900.00</u> | \$ 11,010.00 |

Field Program**Personnel**

| | | | |
|---------------------|-------------------------|------------------|---------------------|
| Project Supervision | 2 days @ \$425/day | \$ 850.00 | |
| Project Geologist | 50 days @ \$375/day | 18,750.00 | |
| Geologist | 50 days @ \$310/day | 15,500.00 | |
| Field Assistants | 2 x 50 days @ \$250/day | 25,000.00 | |
| Cook | 50 days @ \$250/day | <u>12,500.00</u> | \$ 72,600.00 |

Camp Support

| | | | |
|----------------------|--------------------------|-----------------|---------------------|
| Food & Accommodation | 250 man days @ \$ 60/day | \$15,000.00 | |
| Equipment Rental | 250 man days @ \$ 30/day | 7,500.00 | |
| Delivery, Courier | | 4,000.00 | |
| Expediting | | 3,000.00 | |
| Travel | | 5,000.00 | |
| Fuel | | 2,000.00 | |
| Trenching | | <u>1,500.00</u> | \$ 38,000.00 |

Geochemistry

| | | | |
|-------------|---------------------------|-----------------|---------------------|
| Soils/Silts | 200 samples @ \$12.00 ea. | \$ 2,400.00 | |
| Rocks | 600 samples @ \$15.00 ea. | <u>9,000.00</u> | \$ 11,400.00 |

Geophysics

| | | | |
|--------------------------------------|--|------------------|---------------------|
| Magnetometer Survey (approx. 20 km) | | \$10,000.00 | |
| Induced Polarization (approx. 20 km) | | <u>45,000.00</u> | \$ 55,000.00 |

Drilling

| | | | |
|---------------------|----------------------------|--|---------------------|
| NQ Diamond Drilling | 1,000 metres @ \$120/metre | | \$120,000.00 |
|---------------------|----------------------------|--|---------------------|

Transportation

| | | | |
|------------------|---------------------|------------------|---|
| Truck | 10 days @ \$ 55/day | \$ 550.00 | |
| Fixed Wing | | 20,000.00 | |
| Helicopter | 40 hrs @ \$800/hour | <u>32,000.00</u> | \$ 52,550.00 |
| Contingency (6%) | | | <u>\$ 20,500.00</u> \$370,050.00 |

Post-Field**Personnel**

| | | | |
|---------------------|----------------------|---------------|---------------------|
| Project Supervision | 1 days @ \$425/day | \$ 425.00 | |
| Project Geologist | 19 days @ \$375/day | 7,125.00 | |
| Geologist | 17 days @ \$310/day | 5,270.00 | |
| Drafting | 200 hrs @ \$ 30/hour | 6,000.00 | |
| Office | 4 hrs @ \$ 30/hour | <u>120.00</u> | \$ 18,940.00 |

TOTAL PROPOSED BUDGET:**\$400,000.00**

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APPENDIX I

Statement of Qualifications

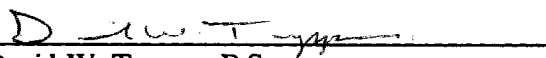
STATEMENT OF QUALIFICATIONS

I, DAVID W. TUPPER, of 1047 Leyland Street, West Vancouver, British Columbia, do hereby certify that:

- 1) I am a consulting geologist.
- 2) I was under subcontract to Keewatin Engineering Inc. of 800 - 900 West Hastings Street, Vancouver, B.C. for the duration of time I worked on this project.
- 3) I worked on the Kits Property from August 26 to September 10, 1991.
- 4) I am a graduate of the University of British Columbia (1985) with a Bachelor of Science degree.
- 5) I have practised my profession continuously since graduation, largely on a contractual basis.
- 6) I have been employed in mineral exploration since 1979.
- 5) I am the author of the report entitled "Geological and Geochemical Report on the Big Bulk Copper-Gold Porphyry Prospect, Kinskuch Lake, British Columbia, Skeena Mining Division", dated November 29, 1991.
- 6) I do not own or expect to receive any interest (direct, indirect or contingent) in the property described herein nor in the securities of Aber Resources Ltd., Oliver Gold Corporation or Tanqueray Resources Ltd., in respect of services rendered in the preparation of this report.

Dated at Vancouver, British Columbia this 29th day of November, 1991.

Respectfully submitted,


David W. Tupper, B.Sc.

Keewatin Engineering Inc.

APPENDIX II

Summary of Field Personnel

SUMMARY OF FIELD PERSONNEL

| Name | Position | Sampler Code | Man Days |
|-----------------|-----------------------|---------------------|-----------------|
| Ron Nichols | Project Supervisor | | 1.5 |
| David Tupper | Project Geologist | DT | 16.0 |
| Sara Howson | Prospector/Geographer | SH | 16.0 |
| Andrew Muirhead | Prospector | AM | 16.0 |
| Vaun Malo | Field Assistant | VM | 16.0 |

APPENDIX III

Statement of Expenditures

STATEMENT OF EXPENDITURES

| | | |
|---|-----------------|---------------------------|
| <u>Pre-Field</u> (Maps, Reports, Permitting) | | \$ 2,713.77 |
| <u>Field Program</u> | | |
| Personnel | \$19,345.00 | |
| Supervision | 212.50 | |
| Camp Costs (64 man days) | 9,661.81 | |
| Transportation | | |
| Fixed Wing and Travel | 7,928.77 | |
| Truck | 275.00 | |
| Helicopter | 394.63 | |
| Geochemical Analyses (44 soils, 148 rocks) | <u>3,207.05</u> | \$41,024.76 |
| <u>Post-Field</u> | | <u>\$ 8,831.13</u> |
| TOTAL EXPENDITURES: | | <u>\$52,569.66</u> |

APPENDIX IV

1991 Petrographic Study: C. Leitch

**PETROGRAPHIC REPORT ON SIX THIN SECTIONS FROM THE BIG BULK
PROPERTY NEAR KINESKUCH LAKE, BRITISH COLUMBIA**

Report for: David Tupper
Keewatin Engineering Ltd.
800-900 W. Hastings Street
Vancouver, B.C.

Invoice attached

November 13 1991

Samples submitted: KTS91-01 to 06.

**KTS91-01: POIKILITIC, SERICITE-ACTINOLITE-CHLORITE ALTERED
PYROXENE K-FELDSPAR RICH GRANODIORITE TO QUARTZ MONZONITE**

Pale green, medium-grained intrusive composed of about 50% dark mafic crystals and 50% sericitized plagioclase. Minor amounts of pink ?K-feldspar are present. The rock is strongly magnetic, but does not appear to be altered (texture is not destroyed). In thin section, the modal mineralogy is:

| | |
|------------------------------|-----|
| Sericite (after plagioclase) | 25% |
| Amphibole (actinolite?) | 20% |
| K-feldspar | 15% |
| Relict clinopyroxene | 10% |
| Chlorite | 10% |
| Epidote (?) | 10% |
| Quartz | 5% |
| Opaque (?magnetite) | 2% |
| Apatite | 2% |
| Sphene | 1% |

In thin section, this rock is actually quite altered. Former euhedral 2 mm plagioclase phenocrysts are saussuritized (psuedomorphed by fine scaly sericite and semi-opaque grains of ?epidote); this imparts their pale green colour in hand specimen. Former mafic crystals consist of remnants of euhedral 1-2 mm clinopyroxene ($c^Z=45$ degrees) that have been altered to dark green fibrous secondary amphibole with c^Z about 15 degrees (?actinolite) and bright green chlorite (Fe-rich, pennine).

Both plagioclase and clinopyroxene relics are set in a matrix of very coarse-grained K-feldspar (?orthoclase) that forms large subhedral crystals up to 4 mm long poikilitically enclosing the other minerals. This does not look like secondary K-spar; it is probably primary or late-magmatic. There is minor interstitial quartz, as small subhedral grains associated with the K-feldspar. It is also probably primary or late-magmatic rather than secondary.

Accessory minerals include rather abundant apatite as euhedral crystals up to 0.5 mm long, magnetite as subhedral grains up to 0.5 mm diameter, and minor associated sphene as subhedral grains to 0.2 mm long.

In summary, this is a rather unusual pyroxene granodiorite to quartz monzonite containing abundant coarse K-feldspar, that has undergone moderate ?deuteric alteration to secondary amphibole-chlorite and sericite-epidote.

KTS91-02 (Bonnie Zone): ALBITE-CHLORITE-SERICITE ALTERED
?MAFIC IGNEOUS ROCK, CUT BY PYRITE-CHALCOPYRITE STRINGERS

Dark green, highly altered rock cut by stringers of coarse pyrite and lesser fine chalcopyrite. The specimen is not magnetic, but reacts vigorously to cold dilute HCl. In polished thin section, the mineralogy is approximately:

| | |
|-------------------------------------|-----|
| Chlorite | 35% |
| Secondary alkali feldspar (?albite) | 30% |
| Sericite (muscovite) | 15% |
| Pyrite | 5% |
| Chalcopyrite | 5% |
| Carbonate (calcite) | 5% |
| Epidote (?) | 3% |
| Quartz (?secondary) | 2% |
| Sphene, rutile | <1% |

Very little remains of the original texture of this rock. It is now essentially composed of remnant subhedral 1-2 mm phenocrysts of plagioclase set in a matrix of fine-grained secondary alkali feldspar, chlorite and sericite. The rock is cut by irregular veinlets of pyrite, chalcopyrite, sericite and minor quartz.

The former plagioclase phenocrysts are now composed of what appears to be secondary feldspar, probably albite to judge by the refractive index below that of quartz and extinction angle X^{001} of 17 degrees. It is dusted by fine particles of ?clay and hematite. Most of the matrix feldspar is probably of similar composition, although in such small, anhedral (0.02 mm) grains that it is not possible to be sure. There does not appear to be significant quartz in this secondary matrix. Only staining with sodium cobaltinitrite would distinguish any K-feldspar present in this rock.

Chlorite forms fine scales of about 0.02-0.03 mm diameter, partly mixed with sericite of similar size and partly as coarser, more euhedral ?pseudomorphs of former mafic grains that were up to 0.5 mm across. The chlorite is as in KTS91-01: a moderately Fe-rich variety with bright green pleochroism and anomalous interference colours.

Minor amounts of very fine (0.01-0.02 mm), anhedral carbonate crystals are found both scattered with the sericite and chlorite (possibly after former mafics; in places the sericite is mixed with minor fine ?epidote as seen in KTS91-01). Rare subhedral sphene crystals are up to 0.2 mm long; rutile crystals are mainly < 0.02 mm.

The veins consist of coarse cubic pyrite to 3 mm across, fine anhedral chalcopyrite up to 1 mm across, fine muscovite as subhedral flakes to 0.05 mm diameter, subhedral quartz grains up to 0.5 mm diameter, elongate calcite grains to 0.5 mm and irregular masses of chlorite up to 0.25 mm thick. Chalcopyrite forms thin veins, probably remobilized, crossing the more brittle pyrite, and it also tends to be more disseminated in the wallrock away from the veins. No other sulfides were observed, but minor sphene is associated with the pyrite and chalcopyrite.

KTS91-03 (Marla Zone): SERICITE-CHLORITE-QUARTZ SCHIST
(?AFTER QUARTZ-FELDSPAR AND FELDSPAR-?HORNBLLENDE PORPHYRY)

Light to dark green, layered and somewhat foliated rock with distinctive pale grey ?plagioclase pseudomorphs aligned parallel to the foliation. The rock is not magnetic, but it does react to cold dilute HCl along a thin quartz vein separating the light from the dark green portions of the rock. In thin section, the modal mineralogy is:

| | |
|---------------------------|-----|
| Sericite (muscovite) | 55% |
| Chlorite | 20% |
| Quartz (partly secondary) | 15% |
| Relict feldspar (?albite) | 5% |
| Carbonate (calcite) | 2% |
| Opaque (?mainly pyrite) | 2% |
| Apatite | 1% |
| Sphene, rutile | 1% |

There are two portions to this specimen: pale green, lacking obvious relict mafic phenocrysts, and dark green, with abundant relict mafics. They are separated by a zone of thin quartz-calcite-pyrite stringers.

In both portions the major phenocryst phase was plagioclase, forming euhedral crystals up to 2 mm long that are strongly aligned parallel to the foliation. They are now mainly pseudomorphed by very fine-grained sericite, although in some places there appear to be remnants of alkali feldspar (?albite) as fine (<0.1 mm) anhedral grains composing patches up to 1 mm across that could have been former plagioclase grains. An unusual feature of both portions, although more common in the dark green areas, is the presence of relatively large (up to 0.5 mm) sub- to euhedral crystals of ?apatite. These appear to be primary, but if this is true they imply an uncommon composition to the rock.

In the light green portion, there are patches of quartz up to 0.5 mm across that could have originally been "eyes" or phenocrysts. They now consist of recrystallized anhedral quartz grains up to 0.2 mm across.

In the dark green portion, relict mafic crystals up to 2 mm long (partly due to stretching along the foliation) have euhedral outlines that are more suggestive of amphibole than of pyroxene. They are mostly pseudomorphed by a deep green pleochroic, anomalous blue (Fe-rich) chlorite and fine opaques, but also in places by sericite and minor quartz and carbonate. The opaques may include both sulfide (?pyrite) and lath-like or skeletal rutile and sphene, probably after former ilmenite.

This appears to have been an interlayered feldspar ± quartz and feldspar-amphibole porphyry or possibly a tuff, which has undergone significant alteration to sericite and chlorite, with minor quartz and carbonate ± pyrite. The original composition, inferred from the possible quartz and amphibole phenocrysts, may have been more felsic than KTS91-01.

KTS91-04 (Tracey zone): SERICITE-CHLORITE-CALCITE ALTERED
PLAGIOCLASE-?HORNBLENDE-BIOTITE PORPHYRY

Dark green, fine-grained, mafic porphyry characterized by small dark mafic relict phenocrysts and buff-coloured TiO₂ relics. Minor sulfides are magnetic and look like pyrrhotite; minor reaction to cold dilute HCl indicates calcite. In thin section, the mineralogy is:

| | |
|----------------------------|-----|
| Sericite | 30% |
| Chlorite | 30% |
| Relict feldspar (?albitic) | 15% |
| Carbonate (calcite) | 15% |
| Relict biotite | 5% |
| Quartz (secondary?) | 2% |
| Sphene, leucoxene | 2% |
| Opaque (pyrrhotite?) | 1% |
| Apatite | <1% |

This rock consists of euhedral relict phenocrysts of plagioclase (30%), ?amphibole (20%) and biotite (5%) set in a very fine matrix of altered, rather indeterminate nature. Plagioclase phenocrysts were up to 2.2 mm long and are intensely replaced by very fine sericite, chlorite, carbonate, and minor quartz. Portions that remain look to be alkalic (albite) feldspar (extinction on 010 about 15 degrees). Rare very small (0.25 mm) euhedral quartz phenocrysts are present, and there are also some microphenocrysts of apatite up to 0.2 mm long.

There are two distinct mafic relics, one with strongly elongate outlines up to 2.5 mm long and the other as books up to 1 mm across. The former is replaced by chlorite, calcite and very minor fine opaques; these appear to have been an amphibole such as hornblende originally, as suspected in KTS91-03. The other consists of biotite with dark brown pleochroism interleaved by chlorite and minor rutile or sphene. There are also relics of former TiO₂ grains as microphenocrysts up to 0.25 mm diameter, now consisting of very fine (10 micron) grains of sphene and ?leucoxene.

The groundmass is so fine (average about 5-10 micron) and altered that it is difficult to identify with certainty, but it probably consists mostly of relict feldspar (?), quartz, sericite and chlorite plus minor opaque Fe-Ti oxides.

The composition of this rock may have been similar to that of KTS91-03 prior to strong sericite-chlorite-calcite alteration, i.e. an intermediate to felsic (?quartz andesite to rhyodacite) volcanic, probably a flow. This is suggested by the presence of minor quartz as a phenocryst phase, and biotite as well as ?hornblende as phenocryst phases.

KTS91-05 (TWYLA zone): SERICITE-FE CARBONATE-CHLORITE-
?QUARTZ ALTERED ?INTERMEDIATE TO FELSIC VOLCANIC

Medium green, fine to medium grained, strongly altered ?volcanic rock characterized by clotty white and buff-coloured relict phenocrysts in a chloritic matrix. Irregular patches of sulfide appear to include coarse (0.5 mm) pyrite and fine (0.1 mm) ?pyrrhotite (slightly magnetic). The rock reacts to cold dilute HCl only in the oxidized orangey margins of the specimen, suggesting Fe-calcite or Fe-dolomite (ankerite). In thin section, the mineralogy is:

| | |
|---|-----|
| Sericite (muscovite) | 30% |
| Carbonate (ferroan calcite or dolomite) | 20% |
| Quartz (?partly secondary) | 20% |
| Chlorite | 15% |
| Relict feldspar (?albitic) | 10% |
| Opaque (pyrite and ?pyrrhotite) | 3% |
| Sphene, leucoxene | 1% |
| Apatite | 1% |

Quartz, which could be in large part primary, is abundant in this specimen. It forms sub- to euhedral grains and aggregates up to 1.5 mm long that look to have originally been quartz "eyes". They are composed of subhedral grains of about 0.5 mm diameter, and are cross-cut and altered by minor sericite and carbonate.

Patches of fine-grained sericite (10-20 microns) and somewhat coarser carbonate (25-50 microns) have very irregular outlines. In places there are relicts remaining of anhedral feldspar, probably alkalic (?albite) although its composition cannot be determined. This suggests that there may have been plagioclase phenocrysts present, although they do not appear to have been euhedral as in KTS91-04. However, this could be due to texture-destructive carbonate alteration.

Patches of chlorite, carbonate and minor sericite may have been mafic crystals, but again their shapes are fuzzy perhaps due to alteration. Fine anhedral opaque grains in these areas may be pyrrhotite; pyrite forms coarse euhedral to subhedral grains separately, some with haloes of chlorite and secondary quartz. The chlorite in these areas is especially pleochroic and anomalous blue, indicating Fe-rich compositions.

Apatite forms euhedral phenocrysts up to 0.5 mm long (apparently primary), indicating a link to the other rocks of this suite. The original composition may have been an intermediate-felsic volcanic like KTS91-04. Alteration is of similar type (sericite-chlorite-carbonate) but is stronger, the carbonate is ferroan and more abundant, and sulfides are more abundant.

KTS91-06 (DDH82A-3): SERICITE-QUARTZ-CHLORITE-?ALBITE
ALTERED ?VOLCANIC PORPHYRY WITH MINOR PYRITE

Light green to buff strongly altered ?igneous rock (texture largely destroyed). The rock is cut by fractures along which some pyrite is distributed and which react vigorously to cold dilute HCl; the rest of the rock also reacts moderately. The rock is not magnetic. In thin section, the mineralogy is approximately:

| | |
|-----------------------------|-----|
| Sericite | 35% |
| Relict feldspar | 20% |
| Quartz (largely secondary?) | 15% |
| Carbonate (calcite) | 15% |
| Chlorite | 10% |
| Pyrite | 3% |
| Rutile | 2% |

There are vague remnants of a porphyritic texture evident in thin section: euhedral outlines of former ?plagioclase phenocrysts, quartz eyes, and probable mafic crystals set in an altered groundmass. The plagioclase crystals were up to about 1 mm long; they are pseudomorphed by very fine flakey sericite and coarser (up to 0.05 mm) calcite. In places remnants of feldspar occur behind a blur of alteration minerals (quartz, calcite and sericite); this is probably mainly secondary alkali feldspar of albitic nature, but it is impossible to be sure without staining tests.

Quartz occurs as sub- to euhedral single crystals or aggregates of grains up to 0.5 mm across that may have been phenocrysts, and as larger aggregates with calcite that are clearly secondary. The largest secondary grains are about 0.5 mm in diameter.

Patches of calcite, chlorite and minor opaque oxides may represent the sites of former mafic crystals up to about 1.5 mm long. Their outlines are blurred by alteration but they may have been euhedral. It is not possible to guess their former identity. The opaque oxides appear to be mainly rutile (very fine, <10 micron needles clustering together to form aggregates up to 0.1 mm across).

In some places, especially where relict phenocrysts are visible, remnants of a fine quartzo-feldspathic (?) groundmass remain, composed of subhedral grains averaging about 20 microns long.

Fractures and irregular veins up to 0.5 mm thick of chlorite, calcite, pyrite and some quartz cross the slide. This is a highly quartz-sericite-calcite altered rock, and contains significant sulfide (mainly pyrite) accompanying the hydrothermal alteration.

APPENDIX V

Rock/Soil/Silt Sample Descriptions

KEEWATIN ENGINEERING INC.

Project: Kita-Jade (052)
 Area (Grid): Seabee
 Collectors: DWT

Results Plotted By: _____
 Map: _____ NTS: 103P/11W
 Date: Aug 24/91 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|---------------|-------------------------------|---------------------|---------------------|---|----------|--------|----------|----------|----------|
| | | | | | Cu (PPM) | Cu (%) | Au (PPb) | Ag (PPM) | Mo (PPM) |
| 91DT052SR002 | Fl. 3666; Seabee peninsula N. | Sketch 14 | Py Shear | GRAB rusty andesite(?), shear w 2-3% Py, graphite, sericite | 123 | | 131 | 0.4 | <1 |
| 91DT052SR003 | Seabee Cove (Seabee Camp) | Sketch 14 | Flt. Roph | Prob. 1965/66 Forrest Kerr; DDH #5 CORE: 180' to 237'; carb. alt'd fold, orth. andesite hole unknown; 25' to 45'; random sample; | 706 | | 68 | <0.2 | 4 |
| 91DT052SR004 | Seabee Cove (Seabee Camp) | " | Vol. Breccia | CORE: siliceous volcanic breccia with 1-5cm veinettes, 1-3% disseminated Py Tr. Cpy (incl 5cm Py, Cpy Veinette.) | 3718 | | 881 | 4.9 | 7 |
| 91DT052SR005 | Seabee Cove | " | Sericitic Andesite? | CORE: random sample from unknown hole (prob 1965/66); unknown intervals; sericite/chlorite altered andesite(?) with 3% well grained Py; plag phenocrysts. | 614 | | 48 | <0.2 | 5 |
| Aug 28/91 | | | | | | | | | |
| 91DT052SR039 | Fl. 3800; SW corner of lake | Sketch 14 | Volc(?) | GRAB: carb. altered and sheared volc(?) w py stockwork. NW of monzodiorite intrusive | 100 | | 21 | <0.2 | 11 |

0.

KEEWAUIN ENGINEERING INC.

Project: Kits-Jade (052)
 Area (Grid): Big Bulk
 Collectors: DWT

Results Plotted By: _____
 Map: _____ NTS: 103P/11W
 Date: Aug 24/91 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|---------------------------|---|----------------------|----------------|---|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | Ag (ppb) | As (ppm) | Mo (ppm) |
| 91DT052BR001 Aug 24/91 | El. 3670'; Peninsula; ~ 29+94E/ 10+56N | SKUCH 14 | Mass Py Vein | GRAB massive Py shear vn. w qt/calc; 1 to 10 cm ^{110°} _{45°} | 1000 | | 320 | 0.3 | 5 |
| 91DT052BR006 | El. 3673'; btwn Peninsula & cliff | SKUCH 14 | Vein | GRAB: Qt-Calc-Py-Sph-tr Cpx; 3-10 cm hosted in med. grained andesite with 1-2% Py + Epidote + Chlorite + Carb.; 3% Py stringers | 398 | 0.039 | 1184 | 1.4 | 30 |
| 91DT052BR007 | " " " | " | Vein | GRAB: sample of andesite host + Py stringer veins (1 to 2 cm); stringers along variable orient. joints | 168 | | 60 | <0.2 | 11 |
| 91DT052BR008 | El. 3690'; N. of peninsula 30m | SKUCH 14 BIG BULK | Vein | GRAB: Qt.-Calc-Py (20%) Vein 5 to 30 cm x 10 m. | 48 | 0.004 | 1938 | 2.0 | 4 |
| 91DT052BR009 | El. 3710'; N. of peninsula 80m. | SKUCH 14 BIG BULK | Sericite Shear | GRAB: Qt-Calc-Py-Cpx Vein; Cpx in clots to 10cm; hosted in sericite shear | 15300 | | 336 | 5.5 | 4 |
| 91DT052BR010 | El. 3800'; S. of Mammine | BIG BULK | Vein Stockwork | GRAB: Qt-Calc-Py-tr Cpx Stockwork (~30x100m); Vns 1 to 50cm; Cpx ~1% in 5cm Vns; hosted Carb altn. | 15041 | | 124 | 3.1 | 778 |
| 91DT052BR011 | El. 3810'; S. of Mammine | BIG BULK | Vein Stockwork | GRAB as for 91DT052BR010. | >20000 | 2.94 | 152 | 4.7 | 1465 |

KEEWATIN ENGINEERING INC.

Project: Kits-Jade (052)
 Area (Grid): Big Bulkl
 Collectors: DWT

Results Plotted By: _____
 Map: _____ NTS: 103P/11W
 Date: Sept. 3/91 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|---------------|--|---------------------|----------------------|---|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | Au (ppb) | Ag (ppm) | Mo (ppm) |
| 91DTSZBFC12 | El. 3840'; ~25m S of crk. junction | Big Bulkl | Py Vns | GRAB: Py vein stockwork (Qt-Calc-Py-Cpy Vns) irreg. orientation. | 3059 | | 58 | <0.2 | 223 |
| 91DTSZBFC13 | El. 3835'; as above Aug 25/91 | Big Bulkl | Py Veins | FLOAT: v. close to source; as above. | 384 | | <5 | <0.2 | 15 |
| 91DTSZBFC14 | On lakeshore, Truxla. 200m N of Camp Aug 26/91 | Big Bulkl | Volcanic | FLOAT: carb. altered rock, w fine Epy-Qt-Calc veinlets; Cpy 10%. | 12362 | | 408 | 5.5 | 24 |
| 91DTSZBFC15 | Trench, Bonnie Peninsula L30400E / Starts 6m N of 10100N | Sketch 14 | Volcanic (Andesite?) | CHIP/2m: sampled from N to S; chloritic w 3-5% Py disseminated, to Cpy Py also in stringers. | 967 | 0.13 | 314 | 1.2 | 2 |
| 91DTSZBFC16 | " " " | " | " | CHIP/2m: as above | 2239 | 0.24 | 96 | 1.7 | 2 |
| 91DTSZBFC17 | " " " | " | " | CHIP/2m: as above; hematite along fractures; Py stringers generally irregular but are trend 050/855 Py stringers 0.3cm wide, spaced 5 to 10cm | 1461 | 0.17 | 73 | 1.0 | 3 |
| 91DTSZBFC18 | " " " | " | " | CHIP/2m: as above (C017); more mottled green/pale green; less albitization | 1865 | 0.23 | 90 | 1.5 | 2 |

KEEWATIN ENGINEERING INC.

Project: KITS/JADE (052)
 Area (Grid): Big Bulk
 Collectors: DWT

Results Plotted By: _____
 Map: _____ NTS: 103 P/11W
 Date: Sep 3/91 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|---------------|--------------------------|---------------------|---------------------|--|----------|--------|----------|----------|----------|
| | | | | | Co (ppm) | Cu (%) | As (ppm) | Ag (ppm) | Mo (ppm) |
| 91DT052BC01 | Trench; Bonnie Peninsula | SKUCK14 | Volcanic (Andesite) | CHIP/2m ² (sampled N to S); as above (CO18); mottled grn w 3-5% dissemin. Py + 1.5m section of well foliated Py shear (Py 60%) 0.2 to 1.0m width. | 812 | 0.14 | 90 | 0.7 | 8 |
| 91DT052BC020 | " " " | " | " | CHIP/2m; as above (CO18); mottled green/grey green irreg. Py stringers (5%) + Qt. | 1268 | 0.17 | 105 | 0.9 | 5 |
| 91DT052BC021 | " " " | " | " | CHIP/2m; as above (CO18) | 1259 | 0.15 | 98 | 0.7 | 29 |
| 91DT052BC022 | " " " | " | " | CHIP/2m; as above (CO18) | 1376 | 0.18 | 287 | 3.1 | 2 |
| 91DT052BC023 | " " " | " | " | CHIP/2m; as above (CO18) | 983 | 0.12 | 187 | 2.0 | 2 |
| 91DT052BC024 | " " " | " | " | CHIP/2m; as above (CO18) | 1511 | 0.21 | 99 | 0.7 | 5 |
| 91DT052BC025 | " " " | " | " | CHIP/2m; mottled appearance controlled by fracture which, are pale green/green around grey; 2-5% py | 1843 | 0.22 | 54 | 1.0 | 5 |

KEEWATIN ENGINEERING INC.

Project: Kits/Jade (052)
 Area (Grid): Big Bulk
 Collectors: DWT

Results Plotted By: _____
 Map: _____ NTS: 103P/11W
 Date: Sept 3/91 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|---------------|---|---------------------|------------------------|--|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | Ag (ppb) | Au (ppm) | Mo (ppm) |
| 91DT052BRC026 | Trench; Bonnie Peninsula | SKUCH/14 | Volcanic (Andesite) | CHIP/2m: as above (C025) | 1666 | 0.19 | 147 | 0.7 | 2 |
| | | | | | | | ?? | | |
| | Aug. 27/91 | | | | | | | | |
| 91DT052BRC027 | Bonnie Creek; from Aug 24 traverse (Gala Shaving) | Big Bulk | Andesite | GRAB: andesite w 0.5% Coy/malachite throughout/along fractures. | 9040 | | 97 | <0.2 | 27 |
| 91DT052BRC028 | Fl. ^{~3500'} ; Gala Shaving | " | Malachite | GRAB: above falls in creek; malachite azurite (chrysocolla?) coated fracture to 2cm thick; magnetite in andesite host. | 4660 | | 16 | <0.2 | 33 |
| 91DT052BRC029 | Fluv. 4015'; Gala Creek (3m from 91SH052BRC11) | " | Qt-Coy Vn | GRAB: qtz-calc vein with coarse Coy (to 5cm); vein brecciated to 30cm. | >20000 | 11.77 | 432 | 17.8 | <1 |
| 91DT052BRC030 | Fluv. 4180' Gala Cr. | " | Andesite | GRAB: mottled green grey andesite(?) w 0.2 to 1.0% malachite stain on c/c; spy along fractures/disseminated. | 1480 | | 9 | 0.3 | 6 |
| 91DT052BRC031 | Fluv. 4150', Gala Cr. (30m E of R030) | " | " | GRAB, as above (R030) | 1080 | | 15 | <0.2 | 8 |

KEEWATIN ENGINEERING INC.

Project: KITS/JADE 052.
 Area (Grid): BIG BULK.
 Collectors: D.W.T.

Results Plotted By: _____
 Map: _____ NTS: 103 P/11 W.
 Date: AUG. 27. Surface: ✓ Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|----------------------|---|---------------------|--------------------|---|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | Au (ppb) | Ag (ppm) | Mo (ppm) |
| 910T.052. B-R031 | Samples taken every 20m. starting 910T052. B-R031. DOWNSTREAM. GALE CK. | | SERICITE SHEAR. | GRAB. - DTZ. SERICITE SCHIST. 3-8% DISS + STRINGERS OF PY. Shear. 145° DIP 70W. | 1080 | | 15 | <0.2 | 8 |
| 910T 052. B-R 032 | " " | | PORPH. PLAG.AND | GRAB: well foliated, 5-8% FRACTURE FILLS CRY/PY SULPHIDE STRINGERS. 112° DIP 64°N | 2312 | | 15 | <0.2 | 8 |
| 910T 052 B-R033 | " " | | PORPH. PLAG.AND | GRAB: CALCAREOUS. CARBONATE STOCKWORK. -5% DISS PY/CRY | 695 | | 17 | 0.6 | 11 |
| 910T 052 B-R034 | " " | | AND. | - GRAB - F.g. green. AND. m m - 2mm DTZ/CARB veins 15% DISS + FRACTURE CONTROLLED. PY. | 144 | | 8 | <0.2 | <1 |
| 910T 052 B-R035 | | | PLAG. PORPH AND | - GRAB: Fractured, f.g. pale GREEN AND; . 2-5% DISS + FRACTURE CONTROLLED. PY/CRY | 378 | | 7 | <0.2 | 10 |

KELWAIN ENGINEERING INC.

Project: KITS / JADE 052.
 Area (Grid): BIG. BULK.
 Collectors: DWT.

Results Plotted By: _____
 Map: _____ NTS: 103 P/11W.
 Date: AUG. 27. Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|--------------------|-----------------------------|---------------------|--------------------|--|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | Au (ppb) | Ag (ppm) | Mo (ppm) |
| 91DT 052 B-R036 | 20m intervals. GALF. CK. | | PLAG. PORPH AND | GRAB: QTZ/CARB. VNING VERY FRACTURED. 3-5% diss + FRACTURE PY | 151 | | 19 | <0.2 | 10 |
| 91DT 052 B-R037 | " " | | PLAG. PORPH AND | GRAB: FRACTURED TO 1.5m. DYKE. 5-10% diss PY/CAY TR. MAL. STAINING | 663 | | 25 | <0.2 | 17 |
| 91DT 052 B-R038 | " " | | PLAG. PORPH AND | GRAB - SAME AS ABOVE. 1-2% diss PY/CAY TR. MAL STAIN. | 522 | | <5 | <0.2 | 5 |
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KEEWATIN ENGINEERING INC.

Project: Kits/Jac6 (052)
 Area (Grid): Big Bulk.
 Collectors: DWT

Results Plotted By: _____
 Map: _____ NTS: 103P/11W
 Date: Sept 3/91 Surface: Underground: _____

| Avg. 29/91 SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|--------------------------------|--|---------------------------|--------------|--|-------------|-----------|-------------|-------------|-------------|
| | | | | | Cu (ppm) | Cu (%) | Ag (ppb) | As (ppm) | Mo (ppm) |
| 91DT052BR040 | El. ~450; below Marla | Big Bulk | Plag. Porph | GRAB: well foliated plagioclase porphyry andesite(?) ; green malachite to ~0.5% Py + Cpy (minor malachite). | 587 | | 8 | <0.2 | 4 |
| 91DT052BR041 | El. ; below Marla | " | Andesite | GRAB: composite chip over 2.5m ; med. green to brown stain, well foliated (1-5cm partings) ; 0.5 to 1% disseminated malachite stain ; 2-5% py - cpy along fractures ; below 9055 contour sample line ; c/c surrounded by sericitic Py alteration. | 2599 | | 32 | 0.6 | <1 |
| 91DT052BR042 | El. ; below Marla (~5m E of R041) | " | " | GRAB ; as above (R041) | 4846 | | 123 | 1.0 | <1 |
| 91DT052BR043 | El. ; below Marla (10m W of 9055R162 ; ~5m E of BR042) | " | " | GRAB ; as above (R041) ; Py - Cpy along multiple irreg. fracture surfaces. | 9816 | | 312 | 2.4 | <1 |

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KEEWATIN ENGINEERING INC.

Project: Kite/Jade (052)
 Area (Grid): Big Bulk
 Collectors: DWT

Results Plotted By: _____
 Map: _____ NTS: 103 P/11 W
 Date: Sept 3/91 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|---------------|---|---------------------|-----------|---|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | Au (ppb) | Ag (ppm) | Mo (ppm) |
| 91DT052BR044 | Elev. ; below Marla ~ 80 to 100 m E of BR041 | Big Bulk | Andesite | GRAB: Py-Cpy (?) stockwork in carb. altered andesite w/ malachite; veinlettes in neg. | 1496 | | 212 | 1.1 | <1 |
| 91DT052BR045 | Elev. ; below Marla site of 90SSR161 | " | " | GRAB: (as above BR044) | 3523 | | 113 | 0.4 | 2 |
| 91DT052BR046 | Elev. ; Marla (E of BR045) | " | " | GRAB: Qt-calc veins + Cpy + Malachite ; low fracture ; Py Cpy dissem. in andesite host. | 11157 | | 67 | <0.2 | 3 |
| 91DT052BR047 | Elev. ; Marla (50 m E of BR044) | " | " | GRAB: Qt-calc zone w/ abundant malachite/azurite | 11280 | | 73 | <0.2 | 3 |
| 91DT052BR048 | Marla Zone. | " | " | GRAB | 2693 | | 75 | 0.5 | 4 |
| 91DT052BR049 | Camp ; Old Cone | " | " | CORE: DDH 65 (?) A-4 ; 388' to 390' ; random sample of core ; 2 to 82 Py w/ qt-camp-py-epid-chl. ; not previously sampled. | 10445 | | 568 | 2.0 | 13 |
| 91DT052BR050 | Camp ; Old Cone | " | " | CORE ; DDH 65 (?) A-4 ; 461' - 475' (as above. BR049) | 919 | | 66 | 0.4 | 18 |

8

KEEWATIN ENGINEERING INC.

Project: Kits/Jade (052)
 Area (Grid): Big Bulk
 Collectors: DWT

Results Plotted By: _____
 Map: _____ NTS: 103P/11W
 Date: Sept 3/91 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|---------------|----------------|---------------------|-----------|--|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | Au (ppb) | Ag (ppm) | Mo (ppm) |
| 91DTS052BRO51 | Camp, old cone | Big Bulk | Andesite | CORE: DDH 65(?) A-3; andesite w epid. replacing plagioclase phenocrysts; Py dissem. to 2-4% + stringer veins; chlorite; previously sampled 105' to 129'; random sampled. | 460 | | 59 | <0.2 | 1 |
| 91DTS052BRO52 | " " | " | " | CORE: DDH 65(?) A-7; 0'-96' v. poor recovery; broken; not sampled; ~50% py; chl. py altered andesite w abundant malachite stain throughout. | 1895 | | 53 | 0.9 | <1 |
| 91DTS052BRO53 | " " | " | " | CORE: DDH 65(?) A-7; 96' to 200' as above (BRO52) | 1313 | | 30 | 0.3 | <1 |
| 91DTS052BRO54 | " " | " | " | CORE: DDH 65(?) A-7; 200'-351'; as above | 882 | | 17 | <0.2 | 2 |
| 91DTS052BRO55 | " " | " | " | CORE: DDH 65(?) A-1; 494'-500'; malachite + carb alteration. | 2380 | | 67 | 0.4 | 15 |

KEEWATIN ENGINEERING INC.

Project: Kits/Jade (052)
 Area (Grid): Big Bulks
 Collectors: DWT/VHM

Results Plotted By: _____
 Map: _____ NTS: 103P/11W
 Date: Sept 3/91 Surface: Surface Underground:

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|---------------------------|--|---------------------|-----------|---|----------|--------|----------|-------------|----------|
| | | | | | Cu (ppm) | Cu (%) | Au (ppm) | Au (oz/ton) | Au pyrom |
| Sept 1/91 91VM052BC001 | Bonnie Peninsula approx 30+19E/10+78N ↳ 10+76N | Sketch 14 | Andesite | CHIP/1.5m: sampled N to S; cont. W BC002 to S; begin semi-continuous series of samples in N-S direction; value breccia, mottled green w Py (3-10%) stringers 0.05 cm to 0.5 cm; generally trending 110/75S; dissem. Tr. to 1.0% Cpy in stringers & dissem.; hematite dissem. along stringers; stringers spaced 3 cm. | 9321 | 0.90 | 348 | 0.002 | 2.9 |
| 91VM052BC002 | " " " " 30+19E/10+76N ↳ 10+78N | " | " | CHIP/1.4m; as above, Py 3-5% stringers spaced 10 cm; cut by shear; 91VM052BC001 continues 1.1 m E from fracture to S. | 720000 | 1.86 | 811 | 0.032 | 6.3 |
| 91VM052BC003 | " " " " approx 30+15E/10+74E to 10+72E | " | " | CHIP/2m; as above (BC001) stringers irreg. | 18105 | 1.69 | 932 | 0.038 | 6.9 |
| 91VM052BC004 | " " " " approx 30+15/10+72E to 10+70E | " | " | CHIP/2m; as above (BC003) | 720000 | 1.93 | 1013 | 0.035 | 4.8 |

KEEWATIN ENGINEERING INC.

Project: Kita / Jade (052)
 Area (Grid): Big Bulk.
 Collectors: VHM / DWT

Results Plotted By: _____
 Map: _____ NTS: 103A/11W
 Date: Sept 3/91 Surface: Surface Underground

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|---------------|---|---------------------|-----------|--|----------|--------|----------|-------|----------|
| | | | | | Cu (ppm) | Cu (%) | Ag (ppb) | Au | As (ppm) |
| 91VM052BC004 | | | | | | | | | |
| 91VM052BC005 | Bonnie Peninsula Skutch 4 approx 30+15E/10+70N to 10+68N | Skutch 4 | Andesite | CHIP/2m; as above (BC004) | 22000 | 2.07 | 1119 | 0.039 | 5.4 |
| 91VM052BC006 | " " | " | " | CHIP/2m; as above (BC004) | 14149 | 1.38 | 927 | 0.035 | 5.1 |
| 91VM052BC007 | ~30+23E/10+66N to 10+64N " " | " | " | CHIP/2m; as above (BC006) | 12901 | 1.27 | 875 | 0.038 | 6.8 |
| 91VM052BC008 | ~30+21E/10+64N to 10+62N " " | " | " | CHIP/2m; as above (BC007) | 5718 | 0.59 | 387 | 0.020 | 2.6 |
| 91VM052BC009 | ~30+20E/10+62N to 10+60N " " | " | " | CHIP/2m; as above (BC008) | 19099 | 1.70 | 1010 | 0.035 | 4.8 |
| 91VM052BC010 | ~30+23E/10+60N to 10+58N " " | " | " | CHIP/2m; as above (BC009); 2-4% | 12257 | 1.13 | 639 | 0.028 | 3.3 |
| 91VM052BC011 | ~30+23E/10+56N to 10+54N " " | " | " | CHIP/2m; as above (BC010); 2-4% Py in carb alt'n in last metre. | 5154 | 0.49 | 454 | 0.016 | 2.4 |
| 91VM052BC012 | ~30+23E/10+54N to 10+52N " " | " | " | CHIP/1m; as above (BC011) | 4667 | 0.44 | 399 | 0.022 | 1.2 |
| 91VM052BC013 | ~30+23E/10+52N to 10+51N " " | " | " | CHIP/2m; as above (BC012) | 7769 | 0.74 | 569 | 0.029 | 1.6 |
| 91VM052BC014 | ~30+22E/10+51N to 10+49N " " | " | " | CHIP/2m; as above (BC013) | 6949 | 0.67 | 430 | 0.016 | 2.6 |

KEEWATIN ENGINEERING INC.

Project: KITS/JADE 052.

Results Plotted By: _____

Area (Grid): RIG BULK CLAIM

Map: _____ NTS: 103 P/11W.

Collectors: SHH.

Date: AUG. 27/91 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|---------------------------------|-------------------------------------|---------------------|-----------|---|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | As (ppb) | Ag (ppm) | Mo (ppm) |
| 98SH052. BR001 | 30m east of Tangle Tamaron Creek | | ANDESITE | GRAB. Well fractured, f.g. pk. green. 2% diss. py pass. cpy. MALICITE STAINING TR. GALBAZA. | 1909 | | 24 | 0.3 | 70 |
| 91SH052 - BR002 | 20m upstream from BR001 | | ANDESITE | GRAB. ALT'D. f.g., PK. green. Feldspar Hbl, discontinuous. Cal. Vining. 6-10cm wide. ; 5% diss. py + in FRACTURES. TR. MAL. STAINING 3-4m away from SERPENTINE/PY SHEAR | 4050 | | 110 | 0.3 | 14 |
| 91SH052. BR003 | 50m NORTH OF D.D.H. "B" | | ANDESITE | GRAB f.g. ALT'D. ANDESITE; CHOR. BOSSANOVIS. w CAL. VMS. 5% diss. py/cpy, MAL. - AUZURITE STAINING. | 5489 | | 498 | 0.6 | 6 |
| 91SH052. BR004 | 20m NORTH OF D.D.H. "A" | | ANDESITE | GRAB BOSS. w 4cm CAL. Vm. 40% py/cpy diss AND FRACTURE CONTROLLED. | 3376 | | 97 | 1.0 | 4 |
| AUG. 25/91 91SH052. BR005 | ~4m East of 25+50N. Tangle | | ANDESITE | GRAB FRACTURED. o/c. of PLAG. PORPH. AND. w 2% diss. py/cpy MALICITE AUZURITE STAINING | 386 | | 74 | 0.2 | 3 |

KEEWATIN ENGINEERING INC.

Project: KITS / JADE. 052.
 Area (Grid): SEA BEE CLAIM
 Collectors: SHH.

Results Plotted By: _____
 Map: _____ NTS: 103 P / 11 W.
 Date: AUG. 23/91 Surface: L Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|--------------------------------|--|---------------------|-------------------|--|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | As (ppb) | Ag (ppm) | Mo (ppm) |
| 91SH052. S-R001 | GROSS PENNINGBULT TRAV. W DWT. AUG. 23/91. | | ANDESITE | GRAB: GROSS, SHEARED, AND. MAYBE L.T. GREEN W/ MOTTLED/ VAINING; 5% DISS + FRACTURE CONTROLLED. PY/CPY; MAL STAIN | 802 | | 39 | <0.2 | 4 |
| AUG. 24. 91SH052. S-R002 | 5000' TRAVERSE OK. LONG. WEST SIDE OF GLACIER. | | BIOTICIA | GRAB: GROSS. FELD/HBL. BRECICIA 1% DISS. PY. | 227 | | 33 | 0.8 | <1 |
| 91SH052. SR003 | " " | | FELD/HBL. AND. | GRAB: GROSS. FELD/HBL AND. DK. GREEN / F.S. 1% DISS. PY | 274 | | 20 | 0.3 | 3 |
| 91SH052. S-R004 | " " | | FELD/HBL AND | GRAB: GROSS. FELD/HBL. AND. BRECICATED. TR-1% DISS. PY TR. MAL. STAIN. | 611 | | 7 | <0.2 | 4 |
| 91SH052 S-R005 | " " | | FELD/HBL AND. | GRAB: GROSS. FELD/HBL. AND SERLITE. 2% DISS PY | 421 | | 50 | 0.5 | 4 |
| 91SH052. SR006 | " " | | FELD/HBL AND. | GRAB: SAME AS ABOVE. 3% DISS. PY. | 54 | | 326 | 0.6 | 25 |

KEEWATIN ENGINEERING INC.

Project: KITS/JADE 052
 Area (Grid): SEA BEE CLAIM.
 Collector: SHH.

Results Plotted By: _____
 Map: _____ NTS: 103 P/11W
 Date: AUG. 24 Surface: ✓ Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|---------------------|---|---------------------|------------------|--|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | Au (ppb) | Ag (ppm) | Mo (ppm) |
| 91SH052. S-ROD7 | 4500' TRAVERSE. N/C. WEST SIDE OF. GLACIER. | | SERICITE SHAR | GRAB: COSS SERICITE SHEAR. ABOVE SOIL SAMPLE 91SH0525500 TR - 10% DISS PY. | 358 | | 34 | 40.2 | 10 |
| 91SH052. S-ROD8. | " " | | FELD/HBL AND. | GRAB: MED. GRAINED, COSS. FELD/HBL ANDESITE 3% DISS PY | 468 | | 79 | 40.2 | 10 |
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(Signature)

KEEWALIN ENGINEERING INC.

Project: KITS/JADE 052.

Results Plotted By: _____

Area (Grid): O/L SOUTH OF BONNIE CK. BIG BULK CLAIMS.

Map: _____ NTS: 103 P/11W.

Collectors: SHH.

Date: AUG. 26, 1991 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|--------------------|-------------------------------|---------------------|-----------------|---|----------|--------|----------|----------|----------|
| | | | | | Cu (PPM) | Cu (%) | As (PPb) | Ag (EPM) | Mo (PPM) |
| 915H052. B-R006 | O/L SOUTH OF BONNIE CK. 3900' | | PLAG. AND | GRAB: P.g. DK. GREEN, ALT'N. CHLOR. PLAG AND.; CAL. VAINIC 3% diss. py. TR. CAP. | 386 | | 74 | <0.2 | 3 |
| 915H052. BR007 | " " | | CAL. VEIN | GRAB: 4-6 mm wide MAL/OTZ V.M. 066° DIP 75° W. - WHITE/PINK w/ CHLOR. INCLUSIONS, TR. PY/CAP GALENA | 828 | | 29 | <0.2 | 4 |
| 915H052 B-R008 | " " | | PLAG/HBL AND | GRAB: FRACTURED, DK GREEN, F.g. PLAG/HBL AND. ALT'N CHLOR. 3% DISS + FRACTURE CONTROLLED PY/ CAP. TR. MAL. | 2683 | | 46 | 0.2 | 17 |
| 915H052. B-R009 | " " 4220' | | PLAG/HBL AND | GRAB: SAME AS ABOVE. PLAG. ALT'D. TO EP. | 765 | | 64 | 0.2 | 3 |
| 915H052. B-R010 | " " | | VEIN | GRAB: 60 mm wide QTZ V.M. IN PLAG/HBL AND. VENTRALS. 160° DIPS 55° E. 3% PY 2% CAP. MAL/AUZ. STAINING | 720000 | 4.56 | 77 | 7.2 | 1 |

KEEWATIN ENGINEERING INC.

 Project: KITS / JADR 052.

Results Plotted By: _____

 Area (Grid): SEABER CLAIMS

 Map: _____ NTS: 103 P/11W

 Collectors: S.H.H.

 Date: Aug. 28/91 Surface: ✓ Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|--------------------|---|---------------------|--------------------|--|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | Ag (ppb) | Ag (ppm) | Mo (ppm) |
| 915H052. S-R014 | HOG CK. | | ANDES lg. HBL. | GRAB - f.g. dk. green. 2% DISS PY / CAP, TR. MAL. STAIN. | 1332 | | 28 | <0.2 | 2 |
| 915H052. S-R015 | " " | | ANDES | GRAB - SAME AS ABOVE. mm. DISRUPTED CARB VAINING. 8% DISS PY / CAP. TR. MAL. | 1660 | | 139 | 1.3 | 3 |
| 915H052. S-R016 | " " | | ANDES PLAG/HBL. | GRAB. SAME AS ABOVE. 3-5% DISS. + FRACTURE PY / CAP Lots of MAL. STAINING | 2572 | | 88 | 0.5 | 20 |
| 915H052. S-R017 | HOG CK. START OF 10m INTERVAL SAMPLING - DOWN- STREAM. | | ANDES | GRAB. - AND - SAME AS ABOVE. 126° DIP TO NE. IS SERICITE / PY SHEAR, CARB. ALT'N., 3-5% PY DISS + FRACTURE FILLS, TR. CAP. | 342 | | 93 | 0.4 | 8 |
| 915H052. S-R018 | " " | | ANDES | GRAB - SAME AS ABOVE. 3-5% DISS PY / CAP; TR. MAL. | 241 | | 22 | <0.2 | <1 |
| 915H052. S-R019 | " " | | ANDES | GRAB - SAME AS ABOVE. \bar{w} . CARB Vn. 3-5% DISS PY / CAP, MAL STAIN. | 1644 | | 135 | <0.2 | 8 |

KEEWATIN ENGINEERING INC.

Project: KITS./JADE 052.
 Area (Grid): BIG BULK.
 Collectors: SHH.

Results Plotted By: _____
 Map: _____ NTS: 103 P/11W.
 Date: Aug. 29/91 Surface: L Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | |
|-------------------|--|---------------------|----------------------|--|----------|----------|----------|----------|
| | | | | | Cu (ppm) | As (ppb) | Ag (ppm) | Mo (ppm) |
| 91SH052 B-R024 | BOTTOM OF CK. EAST OF TRACEY CK. | | SERICITE/ PY GCS. | GRAB - Alunite / py. schist LT GREY, f.g. 1% disparted CARB V. MIN. 5% DISSPY. | 126 | <5 | <0.2 | <1 |
| 91SH052 B-R025 | 30m up stream. | | ANDERS | GRAB: f.g. Lt. GREEN, CARB ALUN. 0% DISS + FRACTURE CONTROLLED. PY/CPY - MAL. STAIN. | 298 | N/A | <0.2 | <1 |
| 91SH052 B-R026 | 20m up stream from R025. | | ANDERS | GRAB - SAME AS R025. SILIC. ALUN. 3-5% DISS + FRACTURE FILL. PY/CPY, TRITAL | 449 | 7 | <0.2 | <1 |
| 91SH052 B-R027 | 30m up stream from R026. | | SILIC. | GRAB - Alunite / py. schist. CARB ALUN. 8-10% DISS + FRACTURE FILL. PY/CPY MALIC. STAINING. | 1767 | 23 | <0.2 | 3 |

KEEWATIN ENGINEERING INC.

Project: KITS/JADD. 052.

Results Plotted By: _____

Area (Grid): B10. BULK.

Map: _____ NTS: 103 P/116.

Collectors: SHH.

Date: AUG. 30/91 Surface: ← Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | |
|-------------------|---|---------------------|----------------|---|----------|----------|----------|----------|
| | | | | | Cu (ppm) | As (ppb) | Ag (ppm) | Mo (ppm) |
| 91SH052 B-R028 | RESAMPLE CORE FROM D.D.H. "A-1" 107.9 to 110.4 m | | ANDESITE | Lt green, f.g. PLAG-HYALD. ANDESITE. CHLOR ACT'N. 1-2% DISRUPTED. CAL. V. NING 1-2% DISS. + FRACTURE FILLED. PY - TR DISS. PY. | 3236 | 85 | 0.2 | 29 |
| 91SH052 B-R029 | D.D.H. "A-1" 110.4 m to 113.5 m | | | same as R-028. 2-3% py/cpy. | 3784 | 104 | 0.4 | 35 |
| 91SH052 B-R030 | D.D.H. "A-1" 113.5 to 116.6 m | | | same as R-028. 1-2% di, py/cpy, TR ITAL STAIN. | 5361 | 121 | 0.4 | 14 |
| 91SH052 B-R031 | D.D.H. "A-1" Box 23 121.0 to 122.6 m | | | same as R-028. 2-4% di, + FRACTURE FILLED PY/CPY - LOOKS MORE INTRUSIVE THAN R028. | 4824 | 146 | 0.4 | 31 |
| 91SH052 B-R032 | D.D.H. "A-2" Box 2. 11.9 to 14.9 m | | ANDES TUFF? | Lt green to buff, f.g, w on m. PHENCS OF ROUNDED-ANGULAR. HYPHED. - 1.5mm CAL Vn TO TRAG. ASSOC W Vn. 1-3% DISS. + FRACTURE FILLED. PY TR CPY. | 4643 | 147 | 0.4 | 28 |

KEEWATIN ENGINEERING INC.

Project: KITS/JADE 052.
 Area (Grid): BIG BULK.
 Collectors: SHH.

Results Plotted By: _____
 Map: _____ NTS: 103 P/11W.
 Date: AUG 31/91 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|--------------------|----------------|---------------------|-------------------|--|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | Au (ppb) | Ag (ppm) | Mo (ppm) |
| 915H052. B-R036 | BONNIE CK. | | VALENT? AND? | -GRAB - E.g. GREY, CARBONATE ALTN; 5-8% DISS + STRINGERS PY/CPY } TRAIL STAINING | 257 | | 16 | <0.2 | 10 |
| 915H052. B-R037 | " " | | SERICITE CONTS | GRAB - BRICK RED GESS; E.g. WHITE YELLOW, CARB: ALTN. 10% DISS PY | 388 | | 16 | <0.2 | 1 |
| 915H052. B-R038 | " " | | PINE/NOR ANDS. | -GRAB - E.g. DK GREEN. m m to 3cm CAL VNING. 1-3% DISS + FRACTURE FILLER. PY. NOXID. CPY BUT TR. MAL. STAINING | 566 | | 148 | 0.5 | 2 |
| 915H052. B-R039 | " " | | ANDS | GRAB - E.g. DK green/purple Andsite. 5 mm to 4cm. cal. Vning. 1% DISS + FRACTURE FILLED. PY. TR CPY | 656 | | 46 | 0.5 | <1 |

KEEWATIN ENGINEERING INC.

Project: KITS/TADP 052.
 Area (Grid): SEA BEE.
 Collectors: SHH.

Results Plotted By: _____
 Map: _____ NTS: 103 p/11W.
 Date: Sept 1/91. Surface: ✓ Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|-------------------|--|---------------------|--------------------|---|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Co (%) | Au (ppb) | Ag (ppm) | Mo (ppm) |
| 91SH052 S-R040 | HOG CK - 10m INTERVAL SAMPLES TAKEN DOWNSTREAM STARTING JUST ABOVE DYKE. | | ANDES | GRAB - f.g. GOSS, WKKY. SHEAR, dk grey. VASC (ANDSITE?). 3-5% diss py/cpy, TR. MAL. STAINING. | 1021 | | 259 | 0.3 | 2 |
| 91SH052 S-R041 | HOG CK. " " " | | ANDES PLAG/HOOD | GRAB - f.g. - DK green rosa plag phenos. 1-3% py/cpy, TR mal. MAGNETIC. | 1207 | | 39 | <0.2 | <1 |
| 91SH052 S-R047 | " " " " | | ANDES | SAME AS ABOVE 1-2% diss py. | 594 | | 38 | <0.2 | 3. |
| 91SH052 S-R043 | " " " " | | ANDES | SAME AS ABOVE | 180 | | 40 | <0.2 | 7 |
| 91SH052 S-R044 | " " " " | | ANDES | SAME AS ABOVE. - TR. MAL. | 1319 | | 55 | 0.3 | 11 |
| 91SH052 S-R045 | " " " " | | ANDES | SAME AS ABOVE | 439 | | 15 | <0.2 | <1 |

KEEWATIN ENGINEERING INC.

Project: KITS - JADE (052)

Results Plotted By: _____

Area (Grid): BIGBULLS

Map: _____ NTS: 103 P/11N

Collectors: ATL

Date: Aug 26/91 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | |
|--------------------|---|---------------------|------------------------|--|----------|----------|----------|----------|
| | | | | | Cu (ppm) | Ag (ppb) | Au (ppm) | Mo (ppm) |
| 91AM052 B/R-005 | ≈ 2500N @ LAKE SHORE. | | AND? PORPH | GRAB/CHIP. ROUGH CHIP OVER 2.5m OF WK. SHR. ZONE (120°/76°S) MOD. SER. / CARB ALT'N - TO 4- 6% Py, PATCHY Mal, AZ STAIN. OCC'L VULTS/SWEETS CARB. | 1078 | | | |
| 91AM052 B/R-007 | SOUTH SIDE OF SHEAR ZONE @ AM-R-003 | | SHR. AND. | GRAB. WK CARB SHEAR. FIELDS. PORPH. AND. 1-1.5% F.G. DISS CPY Mal STAINS. 2-6% Py DISS & FRACT (110°/80°N) | 2979 | 77 | 0.8 | 10 |
| 91AM052 B/R-008 | ≈ 25m E. OF AM-R-002 | | AND XTAL | GRAB. CARB ALT'D WEAK SHEAR (WIDTH) TR-0.25% F.G. & BLEB CPY MINOR Mal STAIN 2-4% F.G. DISS Py WK-MOD SER. | 1042 | 31 | 0.4 | 4 |
| 91AM052 B/R-009 | ≈ 24+85N/34+10 E. | | AND TUFF? PORPH. | GRAB. WKLY FOLD @ 110°/65° N PATCHY ARGILL ALT'N 2-4% Py, 0.5-1.5% VEG & MINOR BLEB CPY ABUNDANT Mal MAGNETIC. | 5763 | 51 | 1.2 | 3 |

KEEWATIN ENGINEERING INC.

Project: KITS-TADE (052)

Results Plotted By: _____

Area (Grid): BIG BULK.

Map: _____ NTS: 103 P/11N

Collectors: AJM.

Date: AUG 26/91 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | |
|----------------------|--------------------------------|---------------------|---------------|---|----------|----------|----------|----------|
| | | | | | Cu (PPM) | Av (ppb) | Ag (PPM) | Mo (PPM) |
| 91 AM 052 B/R-009 | 224+85N / 38+95E | | AND | COMPOSITE GRAB. 3 SUB-CROPS | 2849 | 64 | 0.5 | 6 |
| | | | | PORPH. OVER 20m ² AREA VARIABLE | | | | |
| | | | | ALT'N CARB/SER/JAROSIL | | | | |
| | | | | MOD MAG. TR-1% VEG CPY | | | | |
| | | | | -3-4% Py Mal STAINS. | | | | |
| 91 AM 052 B/R-010 | 634+00E / 24+85N | | " | GRAB. 4-6% MT., 0.5%-1% CPY | 2302 | 58 | 0.3 | 6 |
| | | | | 2-4% V.F.G. Py MED-DK | | | | |
| | | | | GREEN - MOD SILIC. | | | | |
| 91 AM 052 B/R-011 | 240m. E.N.E. OF 91 AM R-004 | | SETZ. SHR. | GRAB BLEACHED SER. SHEAR WELL FRACT'D, FRIABLE | 493 | 23 | 10.2 | 7 |
| | | | | 2-10% Py / JAROSITE | | | | |
| | | | | TR-10% CPY OCC'L Mal | | | | |
| | | | | + BORNITE TR-0.5% | | | | |
| 91 AM 052 B/R-012 | 37+75E / 25+46N | | " | GRAB - AS ABOVE | 301 | 6 | 10.2 | 4 |
| | | | | SHR @ 115°/80°S | | | | |
| | | | | V. MINOR CPY ± Mal. | | | | |

KEEWATIN ENGINEERING INC.

Project: KITS-JADE 052

Results Plotted By: _____

Area (Grid): BIG BULK

Map: _____ NTS: 103P/11W

Collectors: MUIRHEAD / MALO

Date: AUG 28/91 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|--------------------|-----------------------------|---------------------|-----------|--|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | Ag (ppb) | Ag (ppm) | Mn (ppm) |
| 91AM052 B/C-016 | ≈ 4200' 32x60m / 74x160m | | DIORITE | 2m CHIP CARB ALT'D H&I D; FINE EPIDOTE ICPY FRACT'S TR-0.25% VEG DISS CPY WK MAG. RARE Mal | 1588 | 0.17 | 88 | <0.2 | 3 |
| 91AM052 B/C-017 | ≈ 4200' @ TRACY | | AND? | 5m CHIP - CARB ALT'D, WKLY MAG, RED WEATHERING UP TO 8% QTZ CARB STKWK. w 1-3% CPY ± Mal. TR-0.5% DISS, BLEBB, FRACT CPY ORIENTED @ 135° | 3647 | 0.36 | 321 | <0.2 | <1 |
| 91AM052 B/C-018 | " IN CRK. | | DI? | CHIP 4m. SHRD, FOLD @ 125° 60° NE CARB & MINOR CLAY ALT'N COMMON Mal STRAWS. TR-0.3% AVG CPY | 2834 | 0.29 | 82 | <0.2 | <1 |
| 91AM052 B/C-019 | " | | " | AS ABOVE 4m CHIP | 4366 | 0.44 | 63 | <0.2 | <1 |
| 91AM052 B/C-020 | " | | " | " " | 2876 | 0.29 | 53 | <0.2 | 1 |
| 91AM052 B/C-021 | " | | " | 2m CHIP. | 4199 | 0.40 | 44 | <0.2 | 3 |

KEEWATIN ENGINEERING INC.

Project: KTS-JADE (052)
 Area (Grid): BIG BULK
 Collectors: A.M.

Results Plotted By: _____
 Map: _____ NTS: 103 P/11 W
 Date: Aug 30/91 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|--------------------|--|---------------------|-----------|--|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | As (ppb) | Ag (ppm) | Mo (ppm) |
| 91AM052 B/R-026 | ELEV ≈ 3950' METALLICA/TRACY CREEK | | CONGL | GRAB - WK MALACHITE STAINING ON ALBITIZED? CHERT PEBBLE CONGLOMERATE. | 3514 | | 6 | <0.2 | <1 |
| 91AM052 B/R-027 | ELEV ≈ 4070' METALLICA | | AND. | 5m CHIP MODERATELY SHEAR CARB/SERKITE ALT'D ANDESITE. (135°/75°NE) TO 5-8% CP, AVG 2% ABUNDANT MALACHITE ON FRACTURES & PERVASIVE IN AREAS. SOME CARB VENTS | 7450 | 0.74 | 63 | 0.4 | <1 |
| 91AM052 B/R-028 | ELEV ≈ 4100' METALLICA | | CPy | GRAB MASSIVE CPy ≈ 16cm x 1.5m FROM QTZ/CARB STRWK/ VEIN @ 170°/VERT | <20000 | 31.20 | 109 | 750.0 | <1 |
| 91AM052 B/R-029 | " | | VEIN | GRAB VEIN FROM ABOVE 2-4% BLEB CPy + Mal. VISCY CARB/STZ VEIN. 170°/VERT. | 9876 | | 18 | 2.5 | 4 |

KEEWATIN ENGINEERING INC.

Project: KITS-JADE (052)

Results Plotted By: _____

Area (Grid): BIG BULK

Map: _____ NTS: 103 P/11 W

Collectors: MUIRHEAD

Date: 31 AUG 61 Surface: Underground: _____

| SAMPLE NUMBER | LOCATION NOTES | CLAIM NAME/# OR NTS | ROCK TYPE | SAMPLE DESCRIPTION | ASSAYS | | | | |
|---------------------------------|------------------|---------------------|-----------|---------------------------|----------|--------|----------|----------|----------|
| | | | | | Cu (ppm) | Cu (%) | Au (ppb) | Ag (ppm) | Mo (ppm) |
| 91 AM 052 B/B-030 | RT LOCATION OF | | ANDES | GRAB/CHIP OVER 11m | 6811 | 0.67 | 30 | <0.2 | <1 |
| | 91 AM C-627 | | | AS C-027. 21% CPY | | | | | |
| | 5m TO SOUTH | | | + Md. FRACT'S @ 000°/80°W | | | | | |
| | | | | & 140°/70° NE "ROD LIKE" | | | | | |
| | | | | FRAGMENTS | | | | | |
| 91 AM 052 B/C-031 | 20m @ 320° | | | 7.5 m CHIP. | 7476 | 0.76 | 141 | 1.6 | 33 |
| | FROM UPPER MARLA | | " | AS ABOVE + SMALL | | | | | |
| | DDH. | | | CARB VENTS 3-5% CPY. | | | | | |
| 91 AM 052 B/C-032 | SITE OF 90-45 B | | " | 3m CHIP OF WALL ROCK | 252 | 0.05 | 19 | <0.2 | <1 |
| | -172 | | | TO VIEW SIMILAR TO 91 AM | | | | | |
| | | | | B-029 MODERATELY SERPIT | | | | | |
| | | | | OVER PROPYLITIC | | | | | |
| | | | | 8-10% Py BLEBS. | | | | | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: KITS/JADE

Results Plotted By: _____

Area (Grid): SEA BEE CLAIM.

Map: _____ N.T.S.: 103P/11W.

Collectors: SHH.

Date: AUG. 23, 1991

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | |
|--|-----------------|---------|---|---------------|--------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|---------------------|------|-----------------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | | Parent Material | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | | |
| <u>AUG-23/91</u> 915H052 S-5001 <u>HOG GOURGE</u> | | | PROSPECTING SOIL TAKEN AT GOSS. C/C. TUFF. W. QZ/CAL MINING; LOGANBY 3% DISS. PY IN O/C. | | N | ✓ | | | | | | | ✓ | | | | | B. | |
| <u>AUG-24/91</u> 915H052 S-5002 | | | PROSPECTING SOIL TAKEN AT GOSS. FELD. / HBL. SHEAR - SERICITIC Q/C. 1% DISS. PY. IN O/C. TAKEN DOWNSLOPE FROM ROOM. | | N | ✓ | | | | | ✓ | | B | | | | | B. | |
| 915H052 S-5003 | | | " " " " " " | | | | | | | | | | | | | | | | |
| 915H052 S-5003 | | | GOSS. ALONG CLIFF EDGE | | N | ✓ | | | | | ✓ | | B | | | ✓ | | B. | |
| 915H052 S-5003 | | | PROSPECTING SOIL TAKEN BELOW SERICITE / PY. SHEAR | | N | ✓ | | | | | ✓ | | B | | | ✓ | | B. | |
| 915H052 S-5004 | | | PROSPECTING SOIL TAKEN BELOW GOSS. SERICITE / PY SHEAR. | | N | ✓ | | | | | ✓ | | B | | | ✓ | | B. | |
| 915H052 S-5005 | | | PROSPECTING SOIL TAKEN 15m. NORTH OF ROOM. | | N | ✓ | | | | | ✓ | | B | | | ✓ | | B. | |
| 915H052 S-5006 | | | PROSPECTING SOIL TAKEN BASE OF CLIFF W SERICITE PY SHEAR. | | N | ✓ | | | | | ✓ | | B | | | ✓ | | B. | |

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: OS2 Jade-Kits

Results Plotted By: _____

Area (Grid): Big Bull

Map: _____ N.T.S.: 103 P/11W

Collectors: Vanna Malo

Date Aug. 29/91

| Sample Number | Sample Location | | Notes | Topography | | | | Vegetation | | | | | Soil Data | | | | | | | |
|---------------|----------------------------------|---|---|--|----------------------------------|----------|--------------|----------------|-----------------|-------|--------|-----------|-----------|-----------------|-------------------------|---------------------|------|--------|----------|--------|
| | Line | Station | | Valley Bottom | Direction of slope | Hill Top | Level Ground | Heavily Wooded | Sparsely Wooded | Burnt | Logged | Grassland | Swampy | Horizon Sampled | Depth to Horizon Sample | Horizon Development | | Parent | Material | Colour |
| | | | | | | | | | | | | | | | | Good | Poor | | | |
| 414145235 | 26+50E | 22+00N | | 15° | SW | | | X | | | | | B | 30 | X | | X | | MB | |
| | | 22+50N | | 35° | SW | | | X | | | | | B | 30 | X | | X | | MB | |
| | | 23+00N | Sem grey-hor. above B-hor / below outcrop | 25° | SW | | | X | | | | | | B | 30 | | X | X | MB | |
| | | 23+50N | 5m NW of station | 5° | E | | | | X | | | | | B | 30 | | X | X | MB | |
| | | 24+00N | | 20° | SW | | | | X | | | | | B | 35 | X | | X | MB | |
| | | 24+50N | | 5° | SW | | | | | | | | | B | 25 | X | | X | MB | |
| | | 25+00N | 10m grey horizon above B-horizon | | | | X | X | | | | | | B | 45 | | X | X | X | MB |
| | | 25+50N | | 5° | S | | | X | | | | | | B | 30 | X | | X | MB | |
| | | ✓ | 26+00N | 50% angular frags. / small talus slope | 20° | SW | | | X | | | | | | B | 35 | | X | X | MB |
| | | ✓ | 27+75E | 22+00N | Sem grey horizon above B-horizon | 20° | S | | X | | | | | | B | 30 | | X | | LB |
| 22+50N | " " " " " " | | | 15° | S | | X | | | | | | B | 30 | | X | | MB | | |
| 23+00N | " " " " " " / no A-hor. | | | 10° | E | | | X | | | | | B | 30 | | X | | MB | | |
| 23+50N | | | | 5° | SW | | | X | | | | | B | 30 | X | | X | MB | | |
| 24+00N | between two creeks | | | 5° | SW | | | X | | | | | | B | 30 | X | | X | MB | |
| 24+50N | | | | 15° | SW | | | X | | | | | | B | 30 | | X | X | MB | |
| 25+00N | Sem grey horizon above B-horizon | | | 25° | SW | | | X | | | | | | B | 30 | | X | X | MB | |
| ✓ | 25+50N | on outcrop / middle of cliff / exposed soil | 50° | SW | | | X | | | | | | B | 10 | | X | X | MB | | |

APPENDIX VI

Rock/Soil/Silt Sample Results



A DIVISION OF IN-CHARGE INSPECTION & TESTING SERVICES

DATE PRINTED: 17-SEP-91

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| SAMPLE NUMBER | ELEMENT UNITS | Au PPB | Ag PPM | Cu PPM | Pb PPM | Zn PPM | As PPM | Sb PPM | Mo PPM |
|-------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 91 AM 052 B C 001 | | 799 | 5.9 | 14589 | 6 | 54 | 51 | <5 | 5 |
| 91 AM 052 B R 002 | | 120 | 0.7 | 2568 | 23 | 47 | <5 | <5 | 37 |
| 91 AM 052 B R 003 | | 170 | 1.4 | 6319 | 14 | 47 | 25 | <5 | 27 |
| 91 AM 052 B R 004 | | 25 | 0.7 | 1464 | 9 | 84 | 11 | <5 | 5 |
| 91 AM 052 B R 005 | | 49 | 0.2 | 1078 | 7 | 60 | <5 | <5 | 11 |
| 91 AM 052 B R 006 | | 31 | 0.4 | 1042 | 6 | 54 | <5 | <5 | 4 |
| 91 AM 052 B R 007 | | 77 | 0.8 | 2979 | 8 | 96 | 8 | <5 | 10 |
| 91 AM 052 B R 008 | | 51 | 1.2 | 5763 | 8 | 107 | <5 | <5 | 3 |
| 91 AM 052 B R 009 | | 64 | 0.5 | 2849 | 15 | 142 | <5 | <5 | 6 |
| 91 AM 052 B R 010 | | 58 | 0.3 | 2302 | 19 | 242 | <5 | <5 | 6 |
| 91 AM 052 B R 011 | | 23 | <0.2 | 493 | 11 | 55 | 25 | <5 | 7 |
| 91 AM 052 B R 012 | | 6 | <0.2 | 301 | 15 | 83 | 7 | <5 | 4 |
| 91 DT 052 B R 001 | | 320 | 0.3 | 1000 | 54 | 10 | <5 | <5 | 1 |
| 91 DT 052 S R 002 | | 131 | 0.4 | 123 | 128 | 211 | 114 | <5 | <1 |
| 91 DT 052 S R 003 | | 68 | <0.2 | 706 | 8 | 56 | 7 | <5 | 4 |
| 91 DT 052 S R 004 | | 881 | 4.9 | 3718 | 114 | 186 | 337 | 11 | 7 |
| 91 DT 052 S R 005 | | 48 | <0.2 | 614 | 9 | 29 | <5 | <5 | 5 |
| 91 DT 052 B R 006 | | 1184 | 1.4 | 398 | 128 | 131 | 154 | <5 | 30 |
| 91 DT 052 B R 007 | | 60 | <0.2 | 168 | 20 | 70 | <5 | <5 | 11 |
| 91 DT 052 B R 008 | | 1938 | 2.0 | 48 | 75 | 61 | 130 | <5 | 4 |
| 91 DT 052 B R 009 | | 336 | 5.5 | 15300 | 12 | <1 | 49 | <5 | 4 |
| 91 DT 052 B R 010 | | 124 | 3.1 | 15041 | 19 | 25 | 44 | 15 | 778 |
| 91 DT 052 B R 011 | | 152 | 4.7 | >20000 | 17 | 75 | <5 | 9 | 1465 |
| 91 DT 052 B R 012 | | 58 | <0.2 | 3059 | 165 | 13 | <5 | 5 | 223 |
| 91 DT 052 B F 013 | | <5 | <0.2 | 384 | 18 | 16 | <5 | <5 | 15 |
| 91 DT 052 B F 014 | | 408 | 5.5 | 12362 | 113 | 181 | <5 | <5 | 24 |
| 91 DT 052 B C 015 | | 314 | 1.2 | 967 | 24 | 106 | 96 | <5 | 2 |
| 91 DT 052 B C 016 | | 96 | 1.7 | 2239 | 32 | 296 | 59 | <5 | 2 |
| 91 DT 052 B C 017 | | 73 | 1.0 | 1461 | 19 | 71 | 59 | <5 | 3 |
| 91 DT 052 B C 018 | | 90 | 1.5 | 1865 | 19 | 107 | 68 | <5 | 2 |
| 91 DT 052 B C 019 | | 90 | 0.7 | 812 | 9 | 493 | 36 | <5 | 8 |
| 91 DT 052 B C 020 | | 105 | 0.9 | 1268 | 8 | 65 | 10 | <5 | 5 |
| 91 DT 052 B C 021 | | 98 | 0.7 | 1259 | 9 | 54 | 5 | <5 | 29 |
| 91 DT 052 B C 022 | | 287 | 3.1 | 1376 | 9 | 57 | 20 | <5 | 2 |
| 91 DT 052 B C 023 | | 187 | 2.0 | 983 | 41 | 393 | 14 | <5 | 2 |
| 91 DT 052 B C 024 | | 99 | 0.7 | 1511 | 12 | 82 | <5 | <5 | 5 |
| 91 DT 052 B C 025 | | 54 | 1.0 | 1843 | 39 | 210 | 28 | 6 | 5 |
| 91 DT 052 B C 026 | | 147 | 0.7 | 1666 | 16 | 119 | 72 | <5 | 2 |
| 91 DT 052 B R 027 | | 97 | <0.2 | 9040 | 7 | 89 | <5 | <5 | 27 |
| 91 SH 052 B R 001 | | 41 | 0.2 | 2885 | 6 | 47 | <5 | <5 | 16 |



A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

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| SAMPLE NUMBER | ELEMENT UNITS | Au PPB | Ag PPM | Cu PPM | Pb PPM | Zn PPM | As PPM | Sb PPM | Mo PPM |
|-------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 91 SH 052 B R 002 | | 24 | 0.3 | 1909 | 6 | 35 | <5 | <5 | 70 |
| 91 SH 052 B R 003 | | 110 | 0.3 | 4050 | 5 | 24 | <5 | <5 | 14 |
| 91 SH 052 B R 004 | | 498 | 0.6 | 5489 | 30 | 14 | <5 | <5 | 6 |
| 91 SH 052 B R 005 | | 97 | 1.0 | 3376 | 9 | 24 | <5 | <5 | 4 |
| 91 SH 052 B R 006 | | 74 | <0.2 | 386 | 91 | 716 | 12 | <5 | 3 |
| 91 SH 052 B R 007 | | 29 | <0.2 | 828 | 10 | 58 | 6 | <5 | 4 |
| 91 SH 052 B R 008 | | 46 | 0.2 | 2683 | 7 | 70 | <5 | <5 | 17 |
| 91 SH 052 B R 009 | | 64 | 0.2 | 765 | 18 | 113 | 114 | <5 | 3 |
| 91 SH 052 B R 010 | | 77 | 7.2 | >20000 | 22 | 21 | 24 | <5 | 1 |
| 91 SH 052 S R 001 | | 39 | <0.2 | 802 | 9 | 58 | <5 | <5 | 4 |
| 91 SH 052 S R 002 | | 33 | 0.8 | 227 | 46 | 123 | 20 | <5 | <1 |
| 91 SH 052 S R 003 | | 20 | 0.3 | 274 | 15 | 78 | 53 | <5 | 3 |
| 91 SH 052 S R 004 | | 7 | <0.2 | 611 | 44 | 112 | <5 | <5 | 4 |
| 91 SH 052 S R 005 | | 50 | 0.5 | 421 | 65 | 1074 | 26 | <5 | 4 |
| 91 SH 052 S R 006 | | 54 | 0.6 | 326 | 8 | 78 | 34 | <5 | 25 |
| 91 SH 052 S R 007 | | 34 | <0.2 | 358 | 10 | 76 | <5 | <5 | 10 |
| 91 SH 052 S R 008 | | 79 | <0.2 | 468 | 22 | 26 | 26 | <5 | 10 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

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| SAMPLE NUMBER | ELEMENT UNITS | Au PPB | Ag PPM | Cu PPM | Pb PPM | Zn PPM | As PPM | Sb PPM | Mo PPM |
|-------------------|---------------|--------|---------|-----------|--------|--------|--------|--------|--------|
| 91 AM 052 B C 013 | | 6113 | <0.2 | 4974 | 111 | 61 | 59 | <5 | 11 |
| 91 AM 052 B C 014 | | 26 | <0.2 | 999 | 4 | 52 | 411 | <5 | 13 |
| 91 AM 052 B R 015 | | 37 | <0.2 | 3770 | <2 | 67 | 33 | <5 | 1 |
| 91 AM 052 B C 016 | | 88 | <0.2 | 1588 | <2 | 411 | 35 | <5 | <1 |
| 91 AM 052 B C 017 | | 321 | <0.2 | 3647 | <2 | 65 | 46 | <5 | 3 |
| 91 AM 052 B C 018 | | 82 | <0.2 | 2834 | <2 | 56 | 43 | <5 | <1 |
| 91 AM 052 B C 019 | | 63 | <0.2 | 4366 | 3 | 59 | 43 | <5 | <1 |
| 91 AM 052 B C 020 | | 53 | <0.2 | 2876 | 5 | 61 | 45 | <5 | <1 |
| 91 AM 052 B C 021 | | 44 | <0.2 | 4199 | 5 | 63 | 48 | <5 | 1 |
| 91 AM 052 B R 022 | | 45 | <0.2 | 4971 | 16 | 64 | 51 | <5 | 3 |
| 91 AM 052 B C 023 | | 16 | <0.2 | 1886 | 6 | 57 | 58 | <5 | 5 |
| 91 AM 052 B R 024 | | 159 | 1.7 | 7667 | 16 | 56 | 65 | <5 | 4 |
| 91 AM 052 B C 025 | | 122 | 11.9 | 5983 | <2 | 95 | 52 | <5 | 4 |
| 91 AM 052 B R 026 | | 6 | <0.2 | 3514 | 8 | 64 | 29 | <5 | <1 |
| 91 AM 052 B C 027 | | 63 | 11.4 | 7450 | 111 | 179 | 52 | <5 | <1 |
| 91 AM 052 B R 028 | | 109 | >511.11 | >21111111 | 223 | <1 | 4711 | 85 | <1 |
| 91 AM 052 B R 029 | | 18 | 2.5 | 9876 | 6 | 12 | 31 | <5 | 4 |
| 91 AM 052 B R 030 | | 311 | <0.2 | 6811 | 5 | 183 | 711 | <5 | <1 |
| 91 AM 052 B C 031 | | 141 | 1.6 | 7496 | 41 | 221 | 63 | <5 | 2 |
| 91 AM 052 B C 032 | | 19 | <0.2 | 252 | 4 | 62 | 74 | <5 | <1 |
| 91 DT 052 B R 028 | | 16 | <0.2 | 46611 | 2 | 87 | 1116 | <5 | 33 |
| 91 DT 052 B R 029 | | 432 | 17.8 | >21111111 | 87 | 168 | 218 | 26 | <1 |
| 91 DT 052 B R 030 | | 9 | 11.3 | 14811 | 5 | 52 | 611 | <5 | 6 |
| 91 DT 052 B R 031 | | 15 | <0.2 | 111811 | 16 | 211 | 69 | <5 | 8 |
| 91 DT 052 B R 032 | | 15 | <0.2 | 2312 | 9 | 66 | 58 | <5 | 8 |
| 91 DT 052 B R 033 | | 17 | 11.6 | 695 | 9 | 1111 | 159 | 164 | 11 |
| 91 DT 052 B R 034 | | 8 | <0.2 | 144 | 111 | 711 | 68 | <5 | <1 |
| 91 DT 052 B R 035 | | 7 | <0.2 | 378 | 4 | 54 | 45 | <5 | 10 |
| 91 DT 052 B R 036 | | 19 | <0.2 | 151 | 9 | <1 | 511 | <5 | 10 |
| 91 DT 052 B R 037 | | 25 | <0.2 | 663 | 5 | 28 | 59 | <5 | 17 |
| 91 DT 052 B R 038 | | <5 | <0.2 | 522 | 7 | 29 | 35 | <5 | 5 |
| 91 DT 052 B R 039 | | 21 | <0.2 | 11111 | 3 | 311 | 61 | <5 | 11 |
| 91 DT 052 B R 040 | | 8 | <0.2 | 587 | 6 | 155 | 54 | <5 | 4 |
| 91 DT 052 B R 041 | | 32 | 11.6 | 2599 | <2 | 105 | 43 | <5 | <1 |
| 91 DT 052 B R 042 | | 123 | 1.11 | 4846 | 17 | 221 | 53 | <5 | <1 |
| 91 DT 052 B R 043 | | 312 | 2.4 | 9816 | 28 | 242 | 87 | <5 | <1 |
| 91 DT 052 B R 044 | | 212 | 1.1 | 1496 | 41 | 137 | 124 | <5 | <1 |
| 91 DT 052 B R 045 | | 113 | 11.4 | 3523 | 3 | 113 | 48 | <5 | 2 |
| 91 DT 052 B R 046 | | 67 | <0.2 | 11157 | 68 | 262 | 511 | <5 | 3 |
| 91 DT 052 B R 047 | | 73 | <0.2 | 112811 | 7 | 56 | 46 | <5 | 3 |

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PROJECT: 052

PAGE 2

| SAMPLE NUMBER | FIFMENT UNITS | Au PPB | Ag PPM | Cu PPM | Pb PPM | Zn PPM | As PPM | Sb PPM | Mo PPM |
|-------------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 91 DT 052 B R 048 | | 75 | 0.5 | 2693 | 4 | 68 | 37 | <5 | 4 |
| 91 DT 052 B R 049 | | 568 | 2.0 | 10445 | 4 | 77 | 97 | <5 | 13 |
| 91 DT 052 B R 050 | | 66 | 0.4 | 919 | 22 | 70 | 85 | <5 | 8 |
| 91 DT 052 B R 051 | | 59 | <0.2 | 460 | 6 | 63 | 65 | <5 | 1 |
| 91 DT 052 B R 052 | | 53 | 0.9 | 1895 | 9 | 106 | 57 | <5 | <1 |
| 91 DT 052 B R 053 | | 30 | 0.3 | 1313 | 3 | 66 | 35 | <5 | <1 |
| 91 DT 052 B R 054 | | 17 | <0.2 | 882 | 4 | 68 | 47 | <5 | 2 |
| 91 DT 052 B R 055 | | 67 | 0.4 | 2380 | <2 | 41 | 48 | <5 | 15 |
| 91 SH 052 B R 011 | | 23 | <0.2 | 304 | 15 | 55 | 80 | <5 | <1 |
| 91 SH 052 B R 012 | | 64 | 6.7 | >20000 | 45 | <1 | 105 | 19 | 10 |
| 91 SH 052 B R 013 | | 25 | 0.4 | 3167 | 7 | 49 | 41 | <5 | 28 |
| 91 SH 052 S R 014 | | 28 | <0.2 | 1332 | 3 | 52 | 48 | <5 | 2 |
| 91 SH 052 S R 015 | | 139 | 1.3 | 1660 | <2 | 53 | 104 | <5 | 3 |
| 91 SH 052 S R 016 | | 88 | 0.5 | 2572 | <2 | 51 | 25 | <5 | 20 |
| 91 SH 052 S R 017 | | 93 | 0.4 | 342 | 49 | 64 | 81 | <5 | 8 |
| 91 SH 052 S R 018 | | 22 | <0.2 | 241 | <2 | 31 | 41 | <5 | <1 |
| 91 SH 052 S R 019 | | 135 | <0.2 | 1644 | <2 | 29 | 59 | <5 | 8 |
| 91 SH 052 S R 020 | | 29 | <0.2 | 329 | 5 | 71 | 54 | <5 | 2 |
| 91 SH 052 S R 021 | | 8 | <0.2 | 96 | <2 | 74 | 43 | <5 | <1 |
| 91 SH 052 S R 022 | | 129 | 0.6 | 4568 | <2 | 64 | 46 | <5 | <1 |
| 91 SH 052 S R 023 | | 38 | <0.2 | 657 | <2 | 66 | 40 | <5 | <1 |
| 91 SH 052 B R 024 | | <5 | <0.2 | 126 | 34 | 99 | 49 | <5 | <1 |
| 91 SH 052 B R 025 | | 14 | <0.2 | 298 | 12 | 103 | 87 | <5 | <1 |
| 91 SH 052 B R 026 | | 7 | <0.2 | 449 | <2 | 160 | 47 | <5 | <1 |
| 91 SH 052 B R 027 | | 23 | <0.2 | 1767 | 9 | 41 | 63 | <5 | 3 |
| 91 SH 052 B R 028 | | 85 | 0.2 | 3226 | 3 | 28 | 26 | <5 | 29 |
| 91 SH 052 B R 029 | | 104 | 0.4 | 3784 | 4 | 51 | 42 | <5 | 35 |
| 91 SH 052 B R 030 | | 121 | 0.4 | 5361 | 3 | 61 | 40 | <5 | 14 |
| 91 SH 052 B R 031 | | 146 | 0.4 | 4824 | 5 | 25 | 23 | <5 | 31 |
| 91 SH 052 B R 032 | | 147 | 0.4 | 4643 | 4 | 36 | 28 | <5 | 28 |
| 91 SH 052 B R 033 | | 81 | 0.6 | 3727 | 5 | 31 | 31 | <5 | 4 |
| 91 SH 052 B R 034 | | 202 | 0.4 | 4197 | 7 | 49 | 46 | <5 | <1 |
| 91 SH 052 B R 035 | | 251 | 0.5 | 5289 | 11 | 42 | 45 | <5 | <1 |
| 91 SH 052 B R 036 | | 16 | <0.2 | 257 | 6 | <1 | 42 | <5 | 10 |
| 91 SH 052 B R 037 | | 16 | <0.2 | 388 | 7 | 14 | 109 | 9 | 1 |
| 91 SH 052 B R 038 | | 148 | 0.5 | 566 | 7 | 124 | 70 | <5 | 2 |
| 91 SH 052 B R 039 | | 46 | 0.5 | 656 | 6 | 45 | 84 | <5 | <1 |
| 91 SH 052 S R 040 | | 259 | 0.3 | 1021 | 7 | 90 | 80 | <5 | 2 |
| 91 SH 052 S R 041 | | 39 | <0.2 | 1207 | 4 | 64 | 46 | <5 | <1 |
| 91 SH 052 S R 042 | | 38 | <0.2 | 594 | 6 | 117 | 54 | <5 | 3 |



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PAGE 3

| SAMPLE NUMBER | ELEMENT UNITS | Au PPM | Ag PPM | Cu PPM | Pb PPM | Zn PPM | As PPM | Sb PPM | Mo PPM |
|-------------------|---------------|--------|--------|---------|--------|--------|--------|--------|--------|
| 91 SH 052 S R 043 | | 40 | <0.2 | 180 | <2 | 136 | 57 | <5 | 7 |
| 91 SH 052 S R 044 | | 55 | 11.3 | 1319 | 2 | 68 | 48 | <5 | 11 |
| 91 SH 052 S R 045 | | 15 | <0.2 | 439 | 4 | 143 | 37 | <5 | <1 |
| 91 SH 052 S R 046 | | 44 | <0.2 | 31 | <2 | 72 | 39 | <5 | 2 |
| 91 SH 052 S R 047 | | 25 | <0.2 | 67 | 3 | 33 | 54 | <5 | <1 |
| 91 VM 052 B C 001 | | 348 | 2.9 | 9321 | 2 | 75 | 164 | <5 | 25 |
| 91 VM 052 B C 002 | | 811 | 6.3 | >200000 | <2 | 88 | 158 | <5 | 10 |
| 91 VM 052 B C 003 | | 932 | 6.9 | 18105 | 3 | 76 | 141 | <5 | 12 |
| 91 VM 052 B C 004 | | 1013 | 4.8 | >200000 | <2 | 94 | 159 | <5 | 6 |
| 91 VM 052 B C 005 | | 1119 | 5.4 | >200000 | <2 | 92 | 198 | <5 | 13 |
| 91 VM 052 B C 006 | | 927 | 5.1 | 14149 | 7 | 76 | 174 | <5 | 6 |
| 91 VM 052 B C 007 | | 875 | 6.8 | 12901 | 9 | 77 | 134 | <5 | 20 |
| 91 VM 052 B C 008 | | 387 | 2.6 | 5718 | 7 | 56 | 155 | <5 | 5 |
| 91 VM 052 B C 009 | | 1010 | 4.8 | 19099 | <2 | 95 | 155 | <5 | 58 |
| 91 VM 052 B C 010 | | 639 | 3.3 | 12257 | <2 | 87 | 139 | <5 | 42 |
| 91 VM 052 B C 011 | | 454 | 2.4 | 5154 | 7 | 88 | 132 | 7 | 18 |
| 91 VM 052 B C 012 | | 399 | 1.2 | 4667 | 6 | 63 | 111 | 17 | 5 |
| 91 VM 052 B C 013 | | 569 | 1.6 | 7769 | 6 | 91 | 177 | 26 | 8 |
| 91 VM 052 B C 014 | | 430 | 2.6 | 6949 | 12 | 101 | 335 | 97 | 15 |

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DATE PRINTED: 11-OCT-91

PROJECT: 1152

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | Au OPT | Cu PCT |
|---------------|---------------|--------|--------|
|---------------|---------------|--------|--------|

| | | | |
|-------------------|--|--|------|
| 91 AM 052 B C 013 | | | 0.48 |
| 91 AM 052 B C 014 | | | 0.10 |
| 91 AM 052 B C 016 | | | 0.17 |
| 91 AM 052 B C 017 | | | 0.36 |
| 91 AM 052 B C 018 | | | 0.29 |

| | | | |
|-------------------|--|--|------|
| 91 AM 052 B C 019 | | | 0.44 |
| 91 AM 052 B C 020 | | | 0.29 |
| 91 AM 052 B C 021 | | | 0.40 |
| 91 AM 052 B C 023 | | | 0.19 |
| 91 AM 052 B C 025 | | | 0.59 |

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|-------------------|--|-------|------|
| 91 AM 052 B C 027 | | | 0.74 |
| 91 AM 052 B R 030 | | | 0.67 |
| 91 AM 052 B C 031 | | | 0.76 |
| 91 AM 052 B C 032 | | | 0.05 |
| 91 VM 052 B C 001 | | 0.013 | 0.90 |

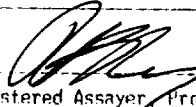
| | | | |
|-------------------|--|-------|------|
| M 052 B C 002 | | 0.032 | 1.86 |
| 91 VM 052 B C 003 | | 0.038 | 1.69 |
| 91 VM 052 B C 004 | | 0.035 | 1.93 |
| 91 VM 052 B C 005 | | 0.039 | 2.07 |
| 91 VM 052 B C 006 | | 0.035 | 1.38 |

| | | | |
|-------------------|--|-------|------|
| 91 VM 052 B C 007 | | 0.038 | 1.27 |
| 91 VM 052 B C 008 | | 0.020 | 0.59 |
| 91 VM 052 B C 009 | | 0.035 | 1.70 |
| 91 VM 052 B C 010 | | 0.028 | 1.13 |
| 91 VM 052 B C 011 | | 0.016 | 0.49 |

| | | | |
|-------------------|--|-------|------|
| 91 VM 052 B C 012 | | 0.022 | 0.44 |
| 91 VM 052 B C 013 | | 0.029 | 0.74 |
| 91 VM 052 B C 014 | | 0.016 | 0.67 |

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PROJECT: 052

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | Au OPT | Cu PCT |
|--------------------|---------------|--------|--------|
| 91 AM 052 B C 0101 | | 0.039 | 1.55 |
| 91 DT 052 B C 015 | | | 0.13 |
| 91 DT 052 B C 016 | | | 0.24 |
| 91 DT 052 B C 017 | | | 0.17 |
| 91 DT 052 B C 018 | | | 0.23 |
| 91 DT 052 B C 019 | | | 0.14 |
| 91 DT 052 B C 020 | | | 0.17 |
| 91 DT 052 B C 021 | | | 0.15 |
| 91 DT 052 B C 022 | | | 0.18 |
| 91 DT 052 B C 023 | | | 0.12 |
| 91 DT 052 B C 024 | | | 0.21 |
| 91 DT 052 B C 025 | | | 0.22 |
| 91 DT 052 B C 026 | | | 0.19 |
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PROJECT: 1152 PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | CII PCT |
|--------------------|------------------|------------|
| 91 DT 052 B R 1111 | | 2.94 |
| 91 SH 052 B R 1111 | | 4.58 |

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PROJECT: 1152 PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | Ag OPT | Cu PCT | Cu PCT |
|--------------------|---------------|--------|----------|--------|
| 91 AM 052 B R 1128 | | 1.64 | >111.111 | 31.74 |
| 91 DT 052 B R 1129 | | | >111.111 | 11.77 |
| 91 SH 052 B R 017 | | | 3.65 | |


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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 19-SEP-91

REPORT: V91-01370.1 (COMPLETE)

PROJECT: 052 PAGE 1

| SAMPLE NUMBER | FIFMNT UNTS | Au PPB | Ag PPM | Cu PPM | Pb PPM | Zn PPM | As PPM | Sb PPM | Mo PPM |
|------------------------------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 91 VM 052 B S 34+110F26+50N | | 8 | 0.4 | 57 | 28 | 123 | 44 | <5 | 7 |
| 91 VM 052 B S 34+110E25+50N | | 370 | 1.8 | 1700 | 39 | 56 | 95 | <5 | 12 |
| 91 VM 052 B S 34+110F25+110N | | 93 | 0.4 | <1 | <2 | <1 | <5 | <5 | <1 |
| 91 VM 052 B S 34+110E24+50N | | 411 | 0.4 | <1 | <2 | <1 | <5 | <5 | <1 |
| 91 VM 052 B S 34+110F24+110N | | 44 | 0.4 | 414 | 8 | 96 | 29 | <5 | 8 |
| 91 VM 052 B S 34+110E23+50N | | 211 | 1.0 | 385 | 12 | 42 | <5 | <5 | 7 |
| 91 VM 052 B S 35+25F26+110N | | 6 | 0.5 | 24 | 27 | 49 | 50 | <5 | <1 |
| 91 VM 052 B S 35+25E25+50N | | 7 | 0.4 | 43 | 33 | 94 | 54 | <5 | 2 |
| 91 VM 052 B S 35+25F25+110N | | 10 | <0.2 | 45 | 24 | 66 | 66 | <5 | 2 |
| 91 VM 052 B S 35+25E24+50N | | 11 | 0.3 | 80 | 38 | 140 | 25 | <5 | 1 |
| 91 VM 052 B S 35+25F24+110N | | <5 | 1.1 | 63 | 11 | 76 | 27 | <5 | 1 |
| 91 VM 052 B S 35+25E23+50N | | 38 | 0.3 | 293 | 11 | 58 | 36 | <5 | 6 |
| 91 VM 052 B S 35+25E23+110N | | 184 | 0.6 | 407 | 13 | 64 | 66 | <5 | 23 |
| 91 VM 052 B S 36+50E26+110N | | 6 | <0.2 | 43 | 5 | 105 | 20 | <5 | <1 |
| 91 VM 052 B S 36+50F25+50N | | 6 | 0.3 | 58 | 17 | 51 | 36 | <5 | 3 |
| 91 VM 052 B S 36+50E25+110N | | 6 | 0.2 | 42 | 24 | 65 | 55 | <5 | 6 |
| 91 VM 052 B S 36+50F24+50N | | 11 | 0.5 | 254 | 18 | 112 | 48 | <5 | 6 |
| 91 VM 052 B S 36+50E24+110N | | 13 | 0.3 | 126 | 7 | 75 | 21 | <5 | 2 |
| 91 VM 052 B S 36+50F23+50N | | 48 | 1.0 | 261 | 11 | 67 | 53 | <5 | 4 |
| 91 VM 052 B S 36+50E23+110N | | 160 | 0.2 | 367 | 24 | 64 | 86 | <5 | 5 |
| 91 VM 052 B S 36+50F22+50N | | 24 | 0.3 | 199 | 5 | 63 | 40 | <5 | 8 |
| 91 VM 052 B S 36+50E22+110N | | 19 | 0.3 | 134 | 6 | 54 | 16 | <5 | 2 |
| 91 VM 052 B S 37+75F25+50N | | 9 | <0.2 | 273 | 21 | 70 | 96 | <5 | 2 |
| 91 VM 052 B S 37+75E25+110N | | 18 | <0.2 | 169 | 17 | 69 | 52 | <5 | 3 |
| 91 VM 052 B S 37+75F24+50N | | 7 | 0.3 | 222 | 10 | 74 | 27 | <5 | 3 |
| 91 VM 052 B S 37+75E24+110N | | 35 | 0.2 | 259 | 13 | 98 | 87 | <5 | 4 |
| 91 VM 052 B S 37+75F23+50N | | 16 | 0.2 | 272 | 15 | 92 | 46 | <5 | 3 |
| 91 VM 052 B S 37+75E23+110N | | 41 | <0.2 | 194 | 12 | 58 | 56 | <5 | 11 |
| 91 VM 052 B S 37+75F22+50N | | 8 | 0.3 | 84 | 8 | 63 | 52 | <5 | 2 |
| 91 VM 052 B S 37+75E22+110N | | 20 | 1.5 | 45 | 10 | 33 | <5 | <5 | 2 |
| | | | | | | | | | |
| | | | | | | | | | |

APPENDIX VII

Analytical Techniques

ANALYTICAL PROCEDURES USED BY BONDAR-CLEGG AND COMPANY LIMITED

Sample Preparation

Silt and Soil

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

Rocks

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

Geochemical Analysis

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

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

Fire Assay Procedure for Au

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

Comments

As part of the routine quality control, we run a duplicate analysis for about 12% of the samples. Also, all samples which are over 0.20 opt on the original fusion are run again to verify the results. If a sample gives erratic results, such as 0.10, 0.020, 0.30, we will indicate this on the report. We suggest that a new split should be taken from the reject for preparation and analysis by our metallics sieve procedure. These assay results will always be signed by the registered assayer.

Contamination Prevention

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

Determination of Arsenic by Borohydride Generation

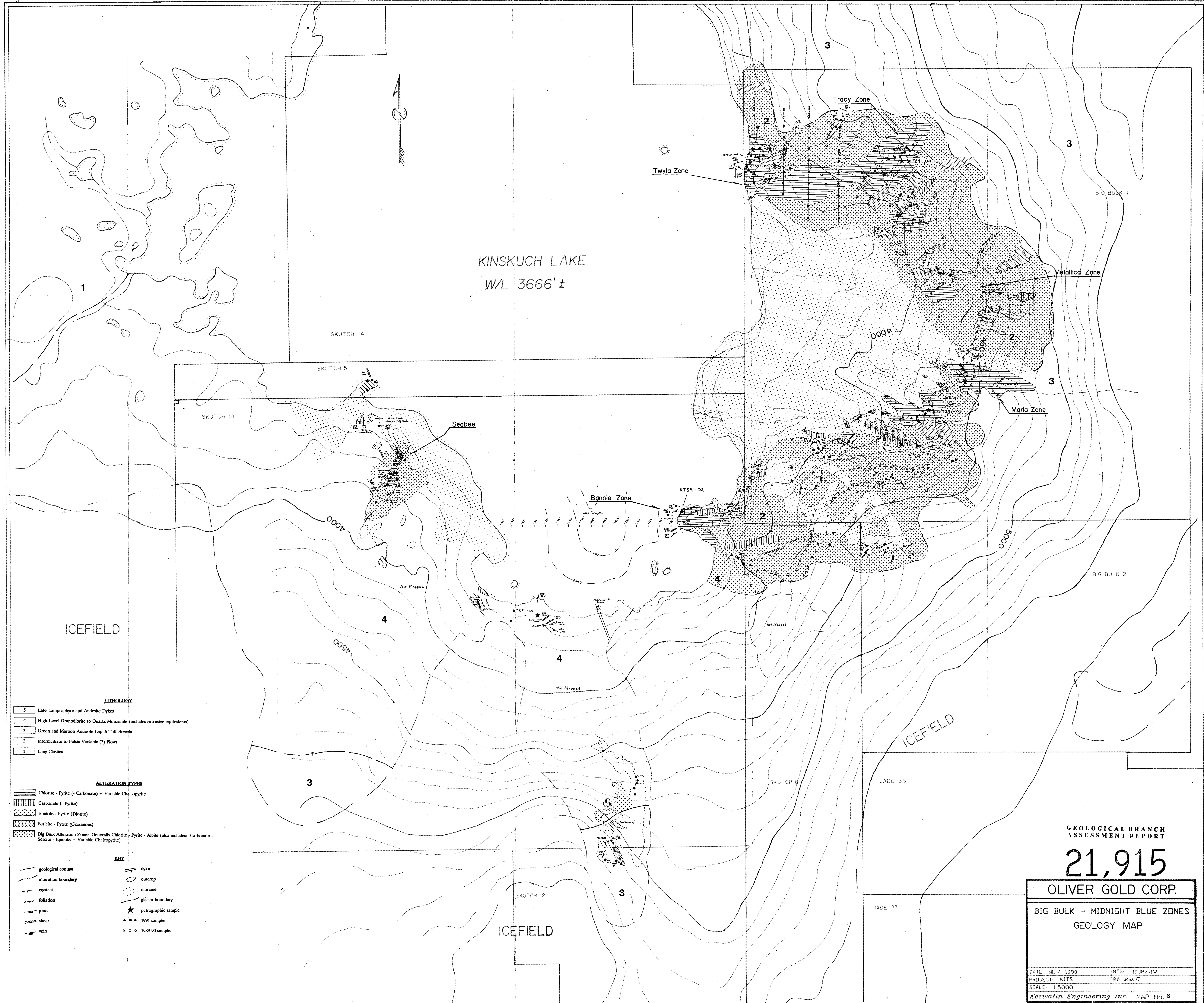
Samples of 0.5 grams in weight are digested in borosilicate glass test tubes, with concentrated nitric and hydrochloric acids. These tubes are heated in a 90°C water bath for two and on-half hours. The sample is then diluted with 14% HCl and mixed. A 0.5 ml aliquot is taken from this solution and HCl,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

Quality Control

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

The lower detection limits for the elements analyzed are listed below:

| Element | Lower Detection Limit |
|------------------|----------------------------------|
| Au Gold 30 grams | 5 ppb |
| Ag Silver | 0.2 ppm |
| Cu Copper | 1 ppm |
| Pb Lead | 2 ppm |
| Zn Zinc | 1 ppm |
| As Arsenic | 5 ppm |
| Sb Antimony | 5 ppm |
| Mo Molybdenum | 1 ppm |
| Hg Mercury | 0.010 ppm |



KINSKUCH LAKE
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- LITHOLOGY**
- 5 Late Lamprophyre and Andesite Dykes
 - 4 High-Level Granodiorite to Quartz Monzonite (includes extrusive equivalents)
 - 3 Green and Maroon Andesite Lapilli-Tuff-Breccia
 - 2 Intermediate to Felsic Volcanic (?) Flows
 - 1 Limy Clastics
- ALTERATION TYPES**
- Chlorite - Pyrite (- Carbonate) + Variable Chalcopyrite
 - Carbonate (- Pyrite)
 - Epidote - Pyrite (Diorite)
 - Sericite - Pyrite (Gossanous)
 - Big Bulk Alteration Zone: Generally Chlorite - Pyrite - Albite (also includes: Carbonate - Sericite - Epidote + Variable Chalcopyrite)
- KEY**
- geological contact
 - alteration boundary
 - contact
 - foliation
 - joint
 - shear
 - vein
 - dyke
 - outcrop
 - moraine
 - glacier boundary
 - petrographic sample
 - 1991 sample
 - 1989-90 sample

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

21,915

OLIVER GOLD CORP.

**BIG BULK - MIDNIGHT BLUE ZONES
GEOLOGY MAP**

| | |
|-------------------------------------|---------------|
| DATE: NOV. 1990 | NTS: 103P/11W |
| PROJECT: KITS | BY: RWT |
| SCALE: 1:5000 | |
| Keewatin Engineering Inc. MAP No. 6 | |

KINSKUCH LAKE
W/L 3666' ±

SKUTCH 4

SKUTCH 5

SKUTCH 14

Old Camp
SOUTH 100' 100' 100'
SOUTH 100' 100' 100'
SOUTH 100' 100' 100'

Old Camp
SOUTH 100' 100' 100'
SOUTH 100' 100' 100'
SOUTH 100' 100' 100'

FOR SAMPLES
91M02 BC-011 AND
91M02 BC-012
SEE FIGURE 8

FOR SAMPLES
91D02 BC-013 TO BC-015
SEE FIGURE 9

ICEFIELD

4500

4000

4000

5000

BIG BULK 2

ICEFIELD

SKUTCH 6


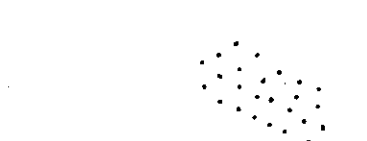

JADE 36

SKUTCH 12

ICEFIELD

JADE 37

LEGEND

-  Limit of Ice
-  Moraine
-  Area of Outcrop

1990 SAMPLES

- Rocks** 90DT052R-050*
- Soils** 90DT052S-048
- Sills** 90DT052L-004

1991 SAMPLES

- Rocks** 91DT052R-112*
- Soils** 91DT052S-010
- Sills** 91DT052L-003

* chip samples - C-013

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,915

OLIVER GOLD CORP.

BIG BULK - MIDNIGHT BLUE ZONES
1990 & 1991
SAMPLE LOCATIONS

| | |
|--------------------------------------|---------------|
| DATE: NOV. 1990 | NTS: 103P/11W |
| PROJECT: KITS | BY: |
| SCALE: 1:5,000 | |
| Keewatin Engineering Inc. MAP No. 10 | |

KINSKUCH LAKE
W/L 3666' ±

1990 DRILL CORRE (CAMP)

| Block No. | Sample No. | Meterage | Cu ppm |
|-----------|---------------|-------------|--------|
| DDH A-1 | 91D1052BR-008 | 1075 - 1184 | 3326 |
| DDH A-1 | 91D1052BR-029 | 1104 - 1115 | 3784 |
| DDH A-1 | 91D1052BR-030 | 1153 - 1165 | 3341 |
| DDH A-1 | 91D1052BR-031 | 1116 - 1226 | 4204 |
| DDH A-2 | 91D1052BR-032 | 1130 - 149 | 4645 |
| DDH A-2 | 91D1052BR-033 | 145 - 179 | 3727 |
| DDH A-2 | 91D1052BR-034 | 793 - 823 | 4397 |
| DDH A-2 | 91D1052BR-035 | 823 - 868 | 5289 |

1990 DRILL CORRE (CAMP)

| Block No. | Sample No. | Fouling | Cu ppm |
|-----------|---------------|-----------|--------|
| DDH A-4 | 91D1052BR-049 | 308 - 398 | 10,445 |
| DDH A-4 | 91D1052BR-050 | 461 - 475 | 919 |
| DDH A-3 | 91D1052BR-051 | 105 - 129 | 468 |
| DDH A-7 | 91D1052BR-052 | 0 - 96 | 1,895 |
| DDH A-7 | 91D1052BR-053 | 96 - 200 | 1,311 |
| DDH A-7 | 91D1052BR-054 | 200 - 351 | 882 |
| DDH A-7 | 91D1052BR-055 | 494 - 500 | 2,389 |

OLD CORRE

| Block No. | Sample No. | Fouling | Cu ppm |
|-----------|---------------|-----------|--------|
| 5 | 91D1052BR-043 | 180 - 237 | 706 |
| 7 | 91D1052BR-044 | 25 - 94 | 3718 |
| 7 | 91D1052BR-045 | | 624 |

FOR SAMPLES
91AM02 BC-08 AND
91AM02 BC-09 TO BC-014
SEE FIGURE 8

FOR SAMPLES
91H02 BC-15 TO BC-026
SEE FIGURE 9

ICEFIELD

ICEFIELD

ICEFIELD

LEGEND

- Limit of Ice
- Moraine
- Area of Outcrop
- Anomalous Areas
- Magnetometer
- Resistivity I.P.
- Chargeability I.P.

- Rocks**
- >1,500 ppm
 - 900 - 1,500 ppm
 - <900 ppm
- Soils**
- >350 ppm
 - 200 - 350 ppm
 - <200 ppm
- Silts**
- >400 ppm
 - 250 - 400 ppm
 - <250 ppm
- Chip Sample** **Cu ppm/Length m**
- 1990 SAMPLES
 - 1991
 - 1990 SAMPLES
 - 1991
 - 1990 SAMPLES
 - 1991

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,915

OLIVER GOLD CORP.

BIG BULK - MIDNIGHT BLUE ZONES
1990 & 1991
Cu GEOCHEMISTRY
&
GEOPHYSICS (1965)

| | |
|---------------------------|---------------|
| DATE: NOV. 1990 | NTS: 103P/11W |
| PROJECT: KITS | BY: |
| SCALE: 1:5000 | |
| Keeyatin Engineering Inc. | MAP No. 11 |



KINSKUCH LAKE
W/L 3666'±

1992 DRILL CORE (PACKY ZONE)

| Block No. | Sample No. | Footage | Au ppb |
|-----------|--------------|---------|--------|
| DDH A1 | 91D1022R-008 | 107.9 | 116.4 |
| DDH A1 | 91D1022R-009 | 110.4 | 115.5 |
| DDH A1 | 91D1022R-010 | 112.5 | 116.5 |
| DDH A1 | 91D1022R-011 | 114.6 | 117.6 |
| DDH A2 | 91D1022R-012 | 116.7 | 118.7 |
| DDH A2 | 91D1022R-013 | 118.8 | 119.8 |
| DDH A2 | 91D1022R-014 | 120.9 | 120.9 |
| DDH A2 | 91D1022R-015 | 123.0 | 122.0 |

1992 DRILL CORE (GAMP)

| Block No. | Sample No. | Footage | Au ppb |
|-----------|--------------|---------|--------|
| DDH A4 | 91D1022R-019 | 188.3 | 508 |
| DDH A4 | 91D1022R-020 | 191.4 | 475 |
| DDH A3 | 91D1022R-021 | 193.5 | 29 |
| DDH A7 | 91D1022R-022 | 0 | 16 |
| DDH A7 | 91D1022R-023 | 96 | 20 |
| DDH A7 | 91D1022R-024 | 200 | 17 |
| DDH A1 | 91D1022R-025 | 294 | 67 |

OLD CORE

| Block No. | Sample No. | Footage | Au ppb |
|-----------|--------------|---------|--------|
| 2 | 91D1022R-001 | 180 | 211 |
| 3 | 91D1022R-004 | 25 | 95 |
| 7 | 91D1022R-005 | 1 | 81 |

FOR SAMPLES
91AM02 BC-001 AND
91AM02 BC-001 TO BC-014
SEE FIGURE 8

FOR SAMPLES
91DT02 BC-015 TO BC-026
SEE FIGURE 9

ICEFIELD

LEGEND

- Limit of Ice
- Moraine
- Area of Outcrop

- Rocks**
- Au >350 ppb
 - Au 200 - 350 ppb
 - Au <200 ppb
- Soils**
- Au >150 ppb
 - Au 80 - 150 ppb
 - Au <80 ppb
- Sills**
- Au >200 ppb
 - Au 90 - 200 ppb
 - Au <90 ppb
- Chip Sample Au ppb/Length m
- 1990 SAMPLES
- 1991
- 1990 SAMPLES
- 1991
- 1990 SAMPLES
- 1991

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,915

OLIVER GOLD CORP.

BIG BULK - MIDNIGHT BLUE ZONES

1990 & 1991
Au GEOCHEMISTRY

DATE: NOV. 1990 NTS: 103P/11W
PROJECT: KITS BY:
SCALE: 1:5,000
Keewatin Engineering Inc. MAP No. 12