ASSESSMENT REPORT
ON SOIL AND ROCK GEOCHEMICAL SAMPLING, INDUCED POLARIZATION SURVEYS AND DIAMOND DRILLING ON THE AXE PROPERTY
(AXE 27, 28, 212, 214, 216 CLAIMS)

BEAUCHAMPS OPTION

Liard Mining Division, British Columbia
NTS 104G/9E
Latitude: 57° 37' N
Longitude: 130° 12' W

on behalf of

ASCOT RESOURCES LTD.
Vancouver, B.C.

by

David T. Mehner, M.Sc., FGAC
KEEWATIN ENGINEERING INC.
#800 - 900 West Hastings Street
Vancouver, B.C.
V6C 1E5

February 21, 1991

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF MAPS

LIST OF APPENDICES

INTRODUCTION

The Axe claims are located on the Klastline Plateau within the Stikine Arch of northwestern British Columbia. They were staked in 1988 to cover ground thought to have excellent potential for hosting porphyry Cu-Au mineralization or precious metal rich veins which commonly occur peripheral to these deposits.

Initial exploration carried out on the property in 1989 was limited to detailed stream silt sampling, prospecting and rock geochemistry. This work identified highly anomalous copper and gold values in silts taken from four drainages including Groat Creek in the northeastern corner of the property. Limited prospecting returned anomalous copper and gold values in rock samples as well.

In 1990, Keewatin Engineering Inc. was contracted by Ascot Resources Ltd. to carry out further exploration on the property and follow-up on the encouraging rock and silt geochemical results from the 1989 program. The program completed includes extensive contour soil sampling, prospecting and geological mapping, 13.7 line km of reconnaissance I.P. and ground magnetometer geophysical surveys and 267.92 metres of diamond drilling in three holes.

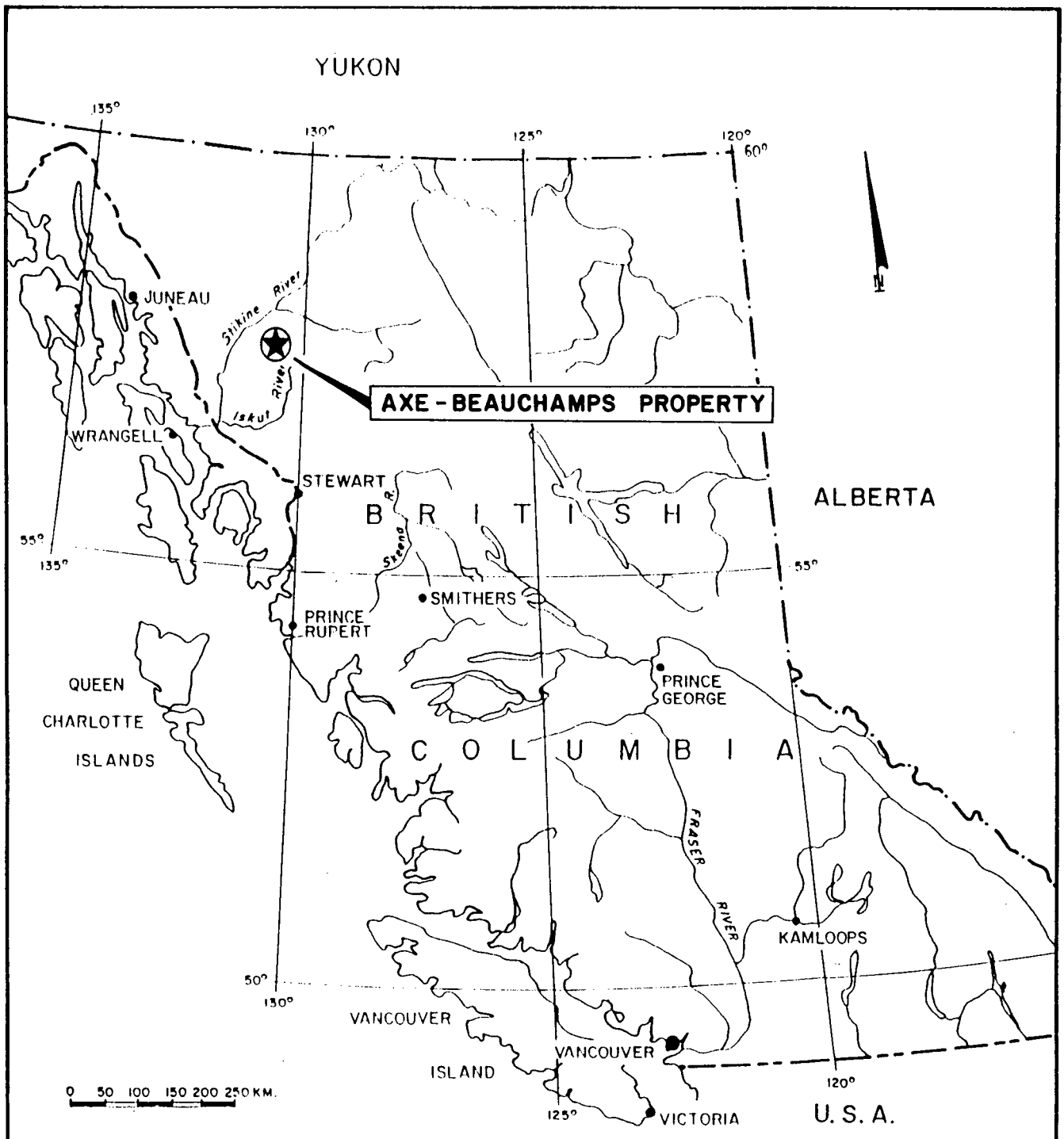
The field work was carried out from a camp established on the Klastline Plateau in the western end of the property on the Axe 27 claim.

Location and Access

The Axe claims are located in the Stikine region of northwestern British Columbia approximately 190 km north of Stewart, B.C. (Figure 1). They are centred 3 km west of Kinaskan Lake and 27 km southwest of Iskut Village at about 57° 37' North latitude and 130° 12' West longitude on NTS map sheet 104G/9E (Figure 2).

Access is via helicopter from Canadian Helicopter's base at Tatogga Lake Lodge, a resort located 14 km south of Iskut Village end 15 km northeast of the property. Both the lodge and Iskut Village are situated on the Stewart-Cassiar Highway. The proposed B.C. Rail extension to Dease Lake is about 23 km northeast of the Tatogga Lake Lodge.

Scheduled air service is available from Smithers and Iskut during the summer months.



PROPERTY LOCATION MAP

Figure 1

KEEWATIN ENGINEERING INC.

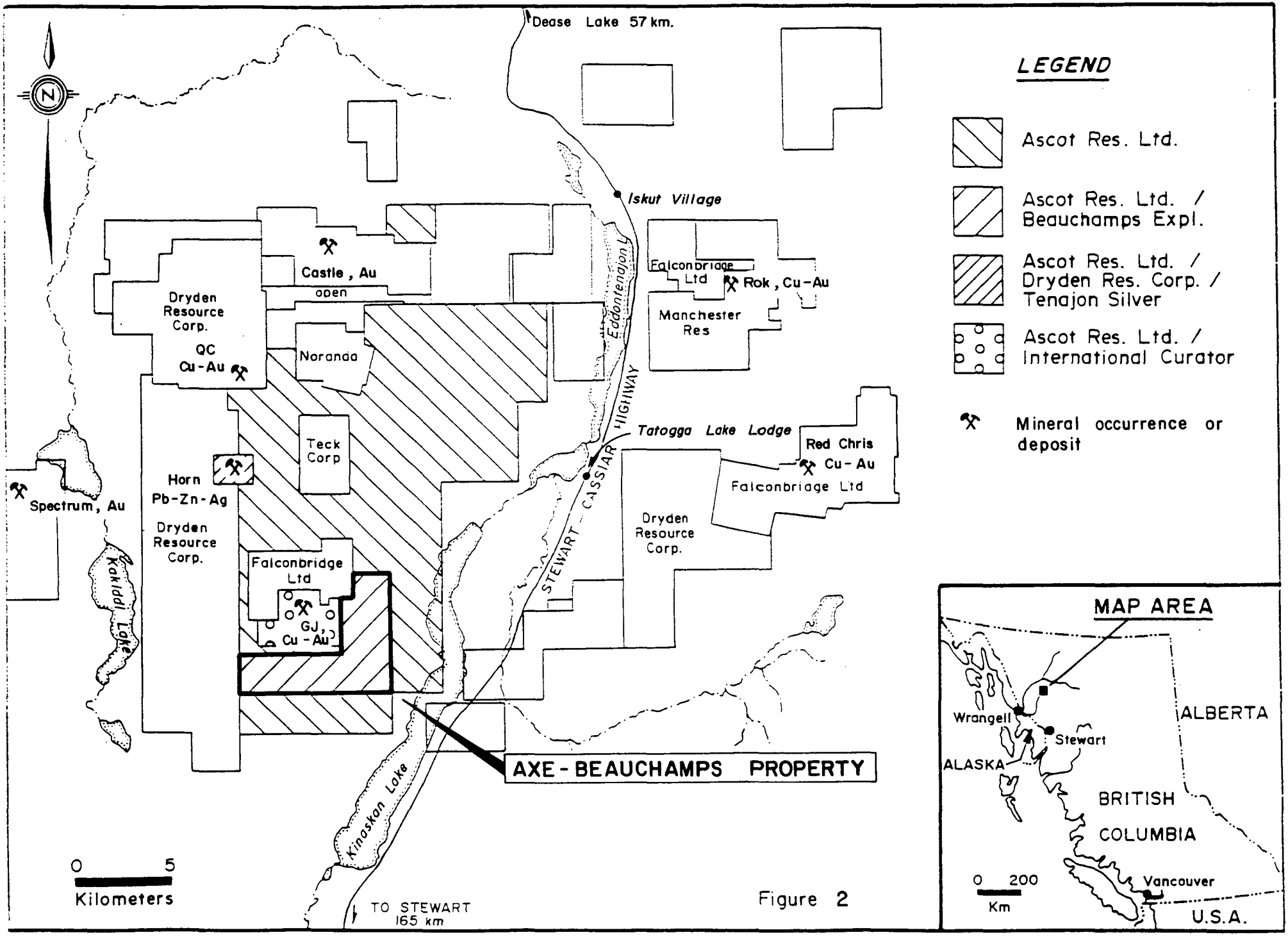

Dease Lake 57 km.
Iskut Village
Eddontenajon L.
Castle, Au
open
Dryden Resource Corp.
QC
Cu-Au
Noranda
Falconbridge Ltd
Rok, Cu-Au
Manchester Res
Teck Corp
Tatogga Lake Lodge
Red Chris
Cu-Au
Falconbridge Ltd
Dryden Resource Corp.
STEWART - CASSIAR HIGHWAY
Horn
Pb-Zn-Ag
Dryden Resource Corp.
Spectrum, Au
Kakiddi Lake
Falconbridge Ltd
GJ,
Cu-Au
AXE-BEAUCHAMPS PROPERTY
Kinaskan Lake
TO STEWART
165 km
0 5
Kilometers
LEGEND
Ascot Res. Ltd.
Ascot Res. Ltd. / Beauchamps Expl.
Ascot Res. Ltd. / Dryden Res. Corp. / Tenajon Silver
Ascot Res. Ltd. / International Curator
Mineral occurrence or deposit
MAP AREA
Wrangell
Stewart
ALASKA
ALBERTA
BRITISH
COLUMBIA
Vancouver
U.S.A.
0 200
Km

Figure 2

Physiography and Climate

The Axe claims are situated on the southeast corner of the Klastline Plateau. Topography in the southern three quarters of the property varies from a gently undulating surface on the Plateau top to gentle east and north facing slopes down to Kinaskan Lake. The northern one quarter of the property is very rugged with steep southerly facing slopes containing numerous bluffs and steep talus covered slides. Elevations vary from 1,650 metres (5,400 feet) above sea level in the north part of the property to 950 metres (3,100 feet) above sea level along Groat Creek at the east edge of the claim group.

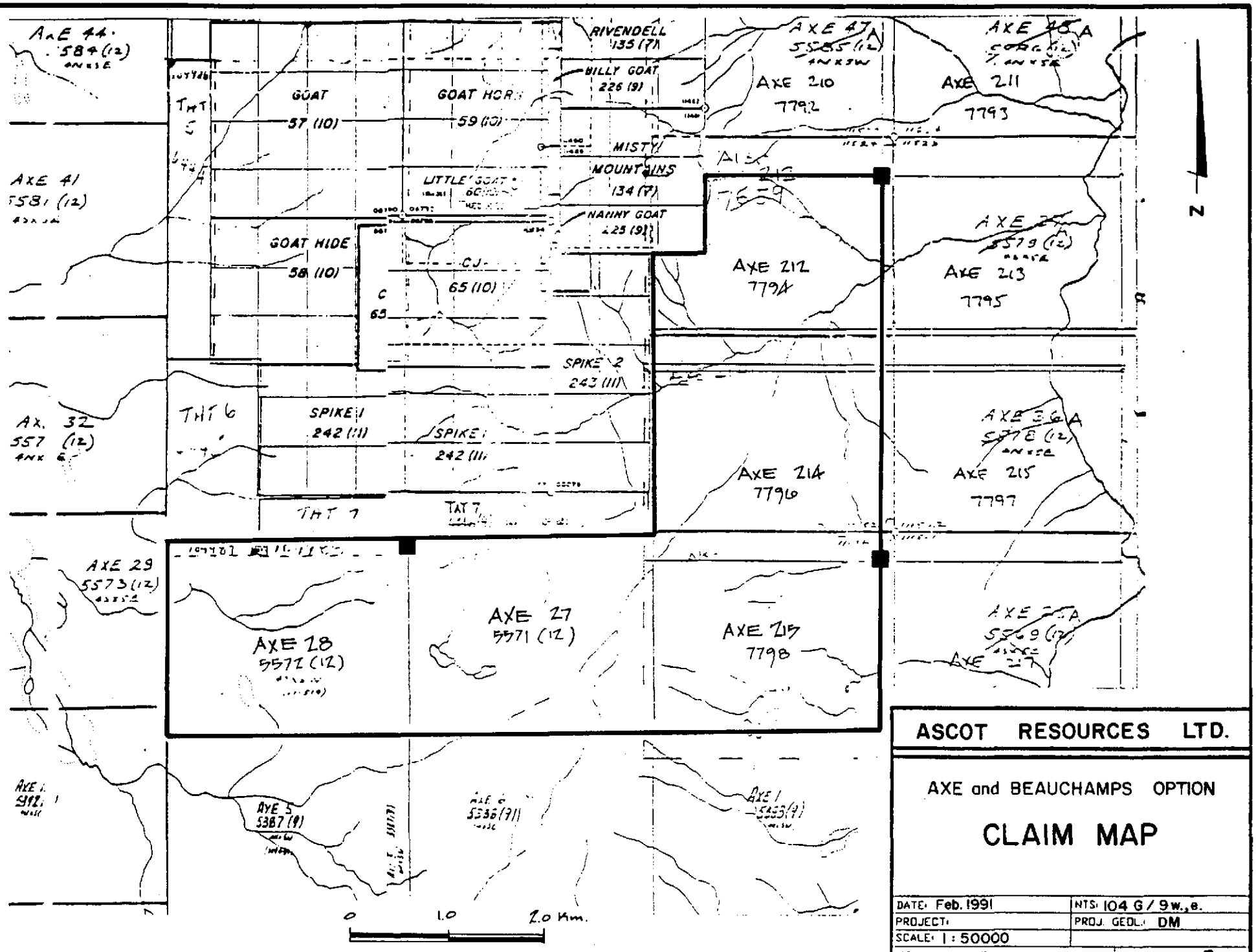
Vegetation varies from typical alpine grasses and shrubs on the plateau to sub-alpine scrub which meanders through the property at about the 1,310 metres (4,300 foot) level. At lower elevations, spruce and pine are common along slopes while slide alder occurs in creek valleys. Outcrop, aside from Plateau basalts is confined to creek valleys and steep slopes.

Precipitation is moderate, averaging 100 cm per year. Thick accumulations of snow are common during winter. Fieldwork can begin at lower elevations in June while it is seldom possible to begin surface geological work before July and difficult to continue past September at the higher elevations.

Property Status and Ownership

The Axe property comprises five claims (100 units) located within the Liard Mining Division (Figure 3). They are owned 100% by Beauchamps Exploration Inc. with offices at Suite 212, 25 Adelaide Street West, Toronto, Ontario, M5C 1Y2. The claims are under option to Ascot Resources Ltd. with offices at 800 - 900 West Hastings Street, Vancouver, B.C., V6C 1E5. Ascot can earn a 50% undivided interest in the claims by incurring exploration expenditures of $150,000 by August 1, 1992.

The property consists of the following:



ASCOT RESOURCES LTD.

AXE and BEAUCHAMPS OPTION

CLAIM MAP

DATE: Feb. 1991	NTS: 104 G / 9 w., e.
PROJECT:	PROJ. GEOL.: DM
SCALE: 1 : 50000	
Keewatin Engineering Inc.	Fig. No. 3

Claim Name	Record No.	No. of Units	Date of Record	Expiry Date
Axe 27	5571	20	December 19, 1988	December 19, 2000
Axe 28	5572	20	December 19, 1988	December 19, 2000
Axe 212*	7794	20	August 27, 1990	August 27, 2000
Axe 214*	7796	20	August 26, 1990	August 26, 1999
Axe 216*	7798	20	August 26, 1990	August 26, 1999

* Claims 212, 214 and 216 are relocations of original Axe claims, 38, 35 and 26 respectively.

Previous Exploration

The Axe property is located in the Stikine River area of northwestern B.C., a region well known for its alkalic plutons and associated porphyry copper-gold mineralization.

Although extensive exploration has taken place on the Klastline Plateau at different times including 1964-1966 when Conwest discovered the GJ and Q.C. porphyry copper-gold prospects and the Horn, Pb-Zn-Ag vein showings, the first recorded work on the property did not occur until 1976. TexasGulf Inc., as part of their extensive regional porphyry copper exploration programs in the area conducted a small scale mapping and prospecting program in the northern portion of the present Axe property (Donnelly et al., 1976).

In 1988 the G.S.C. carried out a regional stream silt sampling program (National Geochemical Reconnaissance, 1988) that included the Klastline Plateau.

In the fall of 1988 Mr. Kevin Whelan staked the Axe group of claims over the southern half of the Klastline Plateau. Five of the claims were sold to Beauchamps Exploration Inc. who subsequently optioned them to Ascot Resources Ltd. In 1989, Keewatin Engineering Inc. was contracted by Ascot Resources Ltd. to conduct an exploration program over the entire property and assess its potential for economic porphyry copper-gold mineralization and/or precious metal rich vein/shears.

Detailed stream silt sampling followed by a small program of prospecting and rock sampling was carried out. Results which were very encouraging included:

i) Twelve consecutive stream silt samples covering 1,200 metres along Groat Creek which yielded highly anomalous gold values to 450 ppb.

ii) Anomalous copper, gold and silver values from three consecutive drainages covering a 2.5 km wide zone in the northern portion of the property.

iii) Values from rock grab samples up to 3,000 ppm Cu, 4,200 ppm Pb, 12,800 ppm Zn, 36.0 ppm Ag and 570 ppb Au.

GEOLOGY

Regional Geology

The property is located within the Intermontane Tectono-Stratigraphic Belt of the Canadian Cordillera (Figure 4). The claims lie within the northeastern half of the Stikine Arch, north and west of the Middle to Upper Jurassic sediments of the Bowser Lake Group.

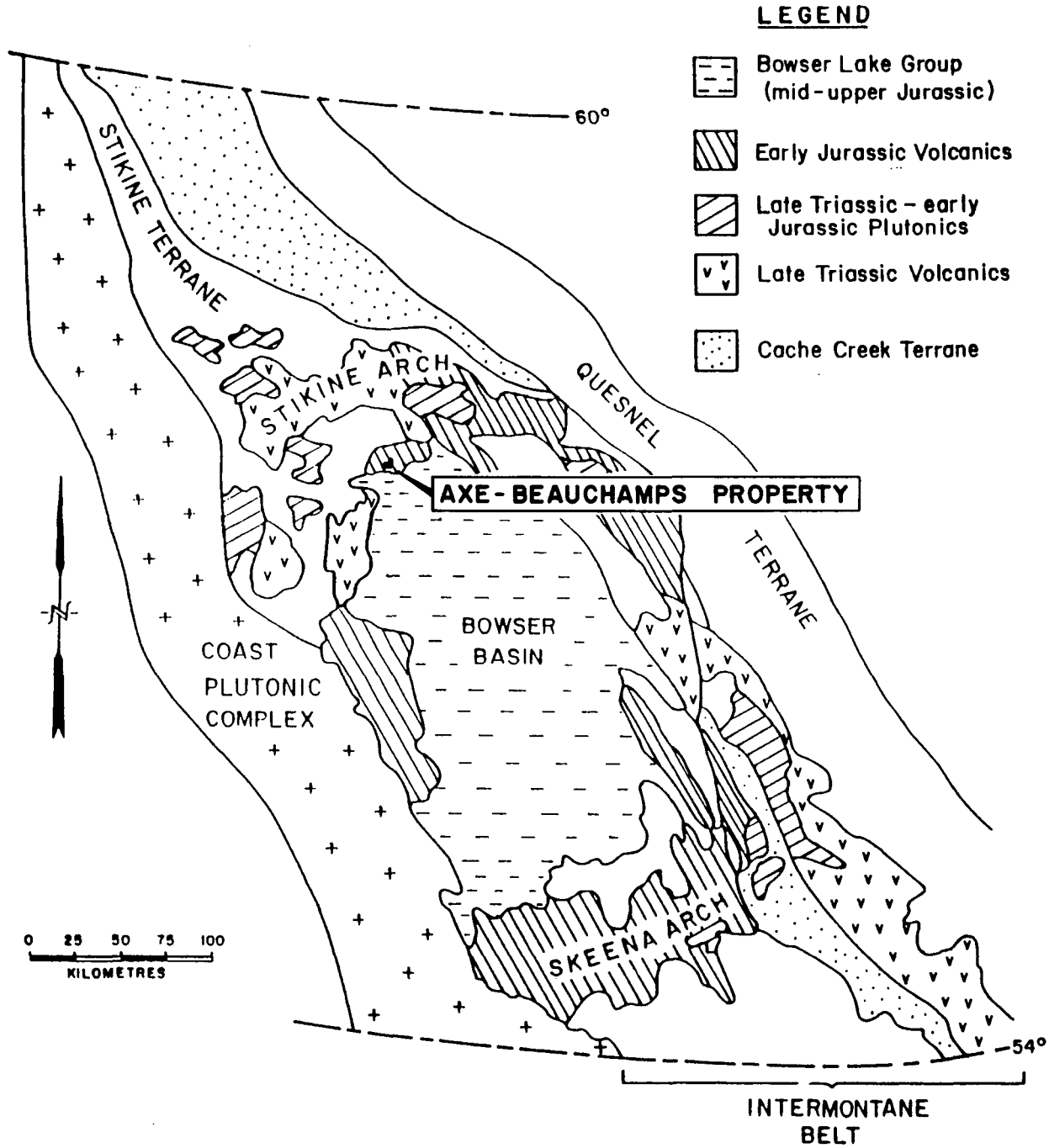
The regional geological setting (Figure 5) as mapped by Souther (1971) of the GSC comprises Upper Triassic, Stuhini Group(?) siltstone, chert, greywacke, volcanic conglomerate and minor limestone overlain by Lower Jurassic volcanics that are correlated with the Hazelton Group. The volcanic stratigraphy includes augite-andesite flows, pillow lavas, pyroclastics and derived volcaniclastic rocks.

Unconformably overlying the above units to the south of the property are chert pebble conglomerate, grit, greywacke and siltstone of Middle to Upper Jurassic, Bowser Lake Group.

Transecting the Upper Triassic to Middle Jurassic assemblage is Upper Cretaceous to Lower Tertiary, massive and flow banded rhyolite, orbicular rhyolite and massive felsite. This unit commonly weathers rusty orange due to the oxidation of fine grained pyrite.

Capping the stratigraphy at the higher elevations are Upper Tertiary and Pleistocene basalt and olivine basalt flows, commonly exhibiting excellent columnar jointing.

Intrusive rocks in the region are typically fine to medium grained plutons that are coeval with the Triassic to Middle Jurassic volcanic assemblages. Compositions vary from diorite and granodiorite

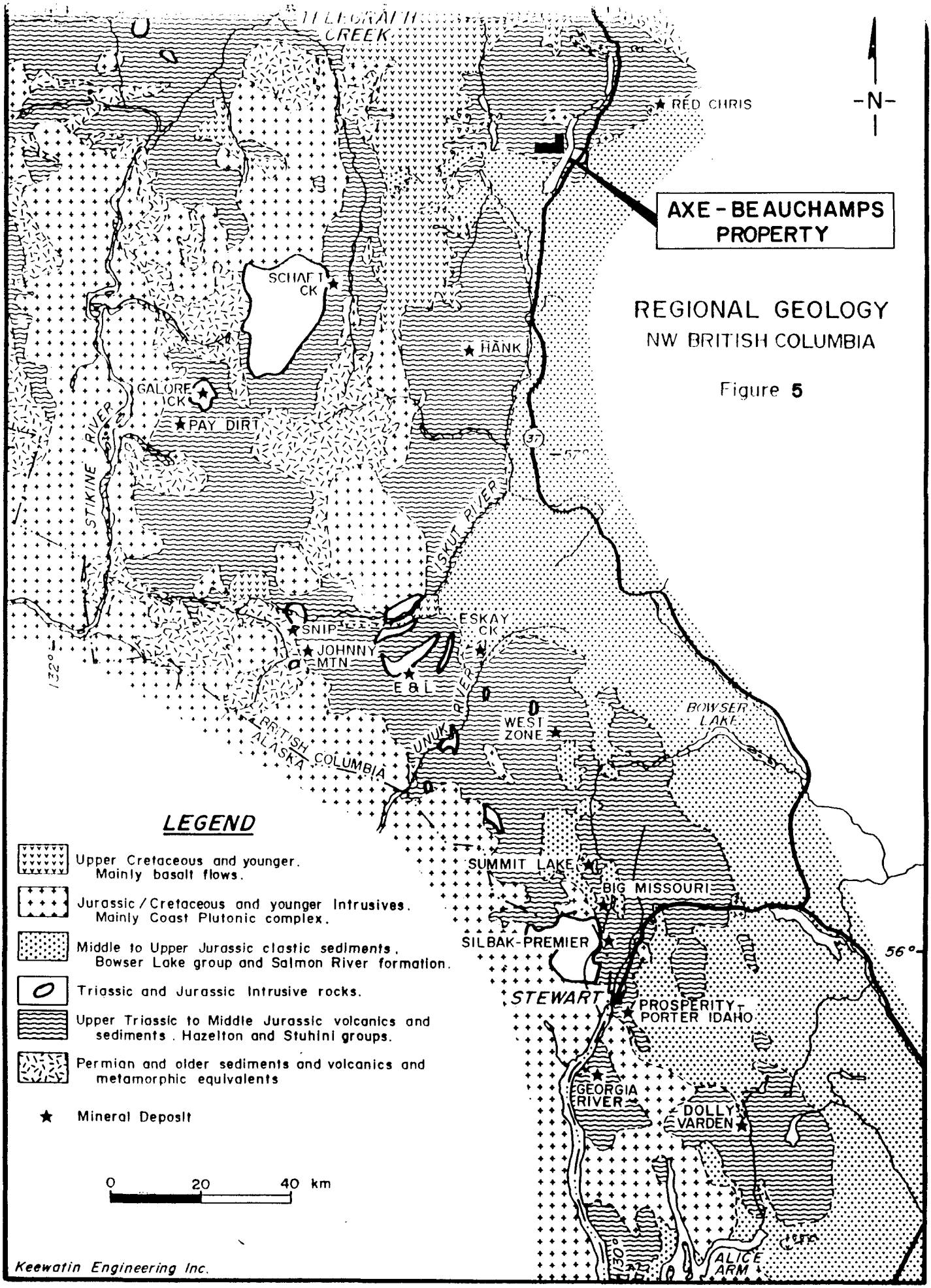


REGIONAL GEOLOGY
BOWSER BASIN
NW BRITISH COLUMBIA

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

Figure 4

KEEWATIN ENGINEERING INC.


ILLEGIBLE CREEK
RED CHRIS
-N-
AXE - BEAUCHAMPS PROPERTY
REGIONAL GEOLOGY
NW BRITISH COLUMBIA
Figure 5
SCHAFT CK
HANK
GALORE CK
PAY DIRT
STIKINE RIVER
37
57°
TUDYAH RIVER
SNIP
JOHNNY MTN
ESKAY CK
E & L
WEST ZONE
UNUK RIVER
BRITISH COLUMBIA
ALASKA
BOWSER LAKE
SUMMIT LAKE
BIG MISSOURI
SILBAK-PREMIER
56°
STEWART
PROSPERITY
PORTER IDAHO
GEORGIA RIVER
DOLLY VARDEN
ALICE ARM
LEGEND
Upper Cretaceous and younger. Mainly basalt flows.
Jurassic / Cretaceous and younger Intrusives. Mainly Coast Plutonic complex.
Middle to Upper Jurassic clastic sediments. Bowser Lake group and Salmon River formation.
Triassic and Jurassic Intrusive rocks.
Upper Triassic to Middle Jurassic volcanics and sediments. Hazelton and Stuhini groups.
Permian and older sediments and volcanics and metamorphic equivalents
Mineral Deposit
0 20 40 km
Keewatin Engineering Inc.

to monzodiorite, monzonite and syenite. Many of the smaller alkalic plutons, dated at between 185 and 195 million years (Schmitt, 1977), have associated porphyry copper-gold or precious metal vein systems. Some of the more notable deposits or occurrences of this type that are situated in the general area (Figure 2) include:

A) The Red-Chris alkalic porphyry Cu-Au deposit located 23 km northeast of the property centre. Explored in the mid 1970's by Texasgulf Inc. (now Falconbridge Ltd.) the deposit has published reserves of 45.2 million tons grading 0.56% Cu and 0.010 oz/ton Au (Panteleyev, 1977).

B) The Q.C. porphyry Cu-Au deposit located on Quash Creek, 16 km to the northwest. Discovered by Conwest Exploration in the 1960's, the deposit has inferred geological reserves of at least 100 million tons grading 0.12% Cu (Webb, 1970).

C) The GJ Cu-Au prospect located 4.5 northwest of the property centre on the adjoining ground to the west.

D) The Rok porphyry Cu-Au prospect situated on the southeastern half of Ehahcezetle Mountain, 27 km to the northeast. Discovered by Texasgulf Inc. in 1975, the property was drilled by Consolidated Carina Resources Ltd. in 1990 who intersected 27.87 metres grading 1.765% Cu and 0.066 oz/ton Au in the third hole of a three hole program.

E) The Spectrum gold vein system located on the east slopes of Mt. Edziza, 19 km to the northwest. Recent drill intersections into this precious metal target by Columbia Gold Mines (Northern Miner, October 29, 1990) include 33 feet at 0.36 oz/ton Au, 8 feet at 0.60 oz/ton Au and 75 feet at 0.30 oz/ton Au.

F) The Castle gold prospect located east of the QC porphyry copper-gold deposit and 21 km north of the property. Work to date by Teck Corp. and Triumph Resources Ltd. has identified a sulphide system 7 km long by up to 250 metres wide that contains visible gold and has yielded assays to 4.0 oz/ton Au from grabs and 0.93 oz/ton Au from one metre chips (Brock, 1990).

G) The Horn Ag prospect located 5 km south of the Q.C. porphyry copper-gold prospect. Discovered by Conwest Exploration in 1964, a vein system has returned values of 11.04 oz/ton Ag over an area of 45 metres x 4.2 metres (Phendler, 1980).

Property Geology

Lithology

The Axe claims (Map 1) are underlain by Upper Triassic to Lower Jurassic volcaniclastic sediments consisting of greywacke and siltstone with pebble conglomerate, chert and cherty siltstone interbedded with andesitic flows, tuffs and agglomerates. Drilling indicates some of the siltstone and chert units are highly carbonaceous. The andesitic rocks are often purple to purple-maroon in colour. Siltstone and greywacke are typically grey to grey green. The chert units generally weather limonitic orange due to oxidation of traces of pyrite.

Lower Jurassic, medium grained hornblende diorite occurs in the extreme north end of the property. Dykes of finer grained equivalents of the intrusive are common in the northern portions of the property including the headwaters of Sentra Creek (Map 4).

At the eastern edge of the property a portion of Upper Cretaceous to Lower Tertiary felsite or massive rhyolite cuts the older stratigraphy.

In the south central portion of the claim group, Upper Tertiary and Pleistocene basalt and olivine basalt flows, many of which exhibit columnar jointing, unconformably overlie the Upper Triassic to Lower Jurassic volcanic-sedimentary sequence.

Alteration

Zones of propyllitic alteration occur throughout the property including the area north of Groat Creek (Map 1), the area around the Bond Showing (Map 2 and 3) and the extreme western end of the property. These areas are typified by chlorite which occurs as fracture fillings and as replacements of mafic minerals, fracture fillings and locally pervasive areas of calcite and minor, locally developed quartz veinlets. Dolomite veining and fracture controlled hematite is also common in these propylitically altered area.

Structure

Bedding strikes northeast and dips to the south at 45 to 65° over most of the property. Towards the western end of the property the distribution of rock units infers that bedding now strikes more to the east-west.

Badly broken ground encountered in drill hole DDH-90-B09, north of Groat Creek (Map 1) is interpreted to represent a northeast striking fault zone that is hidden by talus and tree cover at lower elevations and is covered by Tertiary basalt flows at higher elevations.

Mineralization

Four distinct areas of weak gold and/or copper mineralization have been identified on the property. These include:

A) Fire Creek (Map 1) 1 to 5 cm wide northeast striking oxidized quartz veinlets contain trace chalcopyrite and ≤2% pyrite. Grab samples of vein material have returned values to 0.281 oz/ton gold over 5 cm (sample OR-03) from vuggy veins that are traceable for up to 20 metres. This target was partially tested along strike by hole 90-B08. No significant values were intersected in the hole (see section on diamond drilling).

B) Sentra Creek (Map 4) scattered and randomly oriented quartz-calcite veins up to 1 metre wide and traceable along strike for up to 12 metres occurs in greywacke and siltstones. Sulphides within the veins include pyrite-chalcopyrite-arsenopyrite-galena and sphalerite. Minor malachite is present.

Grab samples of the best looking material returned values to 1,000 ppb Au (sample UR-6) from a 15 cm wide vein. Analysis for Cu-Pb-Zn-Ag-As-Sb and Hg returned significantly elevated values including values to 4,253 ppm Cu, 10,134 ppm Pb, 11,992 ppm Zn, 99.1 ppm Ag, 19,604 ppm As, 2,309 ppm Sb and 9,625 ppb Hg. Molybdenum values are low with 8 ppm being the highest.

C) Bond Showing (Maps 1, 2 and 3) situated south of Groat Creek on the Axe 214 claim. Weak quartz veining up to 2 cm wide occurs over an area of 6 metres x 8 metres

within an augite andesite flow. Trace native copper, chalcopyrite and arsenopyrite were noted in the veins.

Initial grab samples of vein or sulphide rich material within the area returned a high of 6,714 ppm Cu. The remaining samples yielded 766 ppm Cu or less. Analysis for other elements returned low values.

Detailed chip sampling over 2 metre x 2 metre panels returned a high of 1,006 ppm Cu and 244 ppb Au. Analysis for remaining elements yielded low values.

D) West End (Map 1). This target consists of ≤3 cm wide pyrite and quartz-pyrite veins occurring in bleached and oxidized augite porphyry andesite flows(?). The target area has been sheared and weakly altered.

Grab samples yielded a high value of 650 ppm Cu and 254 ppb Au. Mercury values are elevated with one sample running up to 4,125 ppb. Results for all other elements are low.

GEOCHEMISTRY

During the 1990 field season 9 stream silts, 425 soils and 80 rock samples were collected from the property. The stream silts were taken from active stream beds whenever possible while the soils were taken from the "B" soil horizon wherever present. A mattock was used to collect the soil samples. Soil and silt samples were collected in kraft sample bags and sample sites were marked with red and blue flagging and tyvek tags.

Analysis

All samples were sent to Min-En Laboratories Ltd. in Smithers, B.C. where they were processed and analyzed for gold. Pulps were forwarded to Min-En Laboratories Ltd. in North Vancouver, B.C. for 7 element ICP plus Hg analysis. Analytical procedures used by Min-En Laboratories Ltd. are outlined in Appendix III.

Results

i) **Soil Sampling:** Most of the soil samples were taken at 50 metre intervals along contour lines. Six contour lines were established between the 1,020 metre (3,350 foot) and 1,650 metre (5,400 foot) elevations on the southeast facing slopes of the Axe 212 claim. Additional soil samples were collected across the Groat Creek valley from lines established between the 1,070 metre (3,500 foot) and 1,450 metre (4,750 foot) elevations on the Axe 214 claim. A small grid was also established to cover the Bond showing area. The contour soil sample results are plotted on Maps 5 through 9 while the Bond grid results are shown on Map 2. All soil geochemical results are listed in Appendix IV and sample descriptions are in Appendix V.

Using a threshold value of 150 ppm Cu, a moderate strength copper anomaly 1,300 metres long by 400 metres wide containing values to 1,679 ppm Cu is situated between the 4,200 foot and 5,000 foot elevations on the north side of Groat Creek. Scattered, anomalous copper samples extend a further 600 metres northeast of this zone to the property boundary.

Within the same area weak to moderately elevated gold, silver, lead, zinc and arsenic values also occur. The gold values occur as a number of one to four sample anomalies with values in the 65 to 1,440 ppb range. Elevated silver values range to 38.6 ppm but are more typically 2.4 to 7.1 ppm. The elevated silver values are scattered.

Anomalous lead and zinc values range to 8,215 ppm and 6,973 ppm respectively. Although the elevated values correspond closely with higher copper-gold values, significant Pb-Zn values also occur at the headwaters of Fire Creek.

Elevated arsenic values are typically in the 150 to 900 range although a high of 5,477 ppm was obtained from strongly oxidized, sulphide rich material. On the north side of Fire Creek, peripheral to the zone of elevated soil values described above, a weak molybdenum anomaly with values in the 5 to 67 ppm range occurs.

Soil sampling south of Groat Creek yielded one anomalous gold value (60 ppb), an elevated Pb value (49 ppb) and numerous weakly elevated Hg values in the 200 ppb to 575 ppb range.

Soil sampling on the Bond Grid yielded low values in all elements.

ii) **Silt Sampling:** Stream silt locations and results are plotted on Maps 5 to 9 and results are listed in Appendix VI. Sample descriptions are given in Appendix VII.

Sample DM-01 on the north side of Fire Creek yielded an anomalous zinc value of 470 ppm. Soil sampling up hill from the silt site has returned highly anomalous zinc values. The area is underlain by argillites and greywackes. Analysis for other elements returned low values.

iii) **Rock Sampling:** Most sample locations and results are shown on Map 1. Detailed sampling near the Bond Showing is shown on Maps 2 and 3. Similar detailed sampling and mapping near the headwaters of Sentra Creek is shown on Map 4. Complete rock geochemistry results are listed in Appendix VIII. Rock sample descriptions are in Appendix IX.

Rock sampling has yielded elevated gold and copper values from Fire Creek and the Bond Showing area and elevated copper-gold-silver-arsenic-lead-zinc, antimony and mercury values from the headwaters of Sentra Creek. The source of these elevated values however, appears to be very narrow (≤20 cm), discontinuous and randomly oriented quartz-calcite veins containing varying amounts of pyrite-chalcopyrite-galena and sphalerite. The only significant gold values were obtained from five grab samples taken from veins ≤5 cm wide near the upper half of Fire Creek. They range from 626 ppb to 9,000 ppb.

GEOPHYSICS

A 14 line, 13.7 line kilometre induced polarization and ground magnetometer survey was conducted by Scott Geophysics over the southeast facing slopes of Axe 212 where rock and soil geochemical sampling yielded elevated copper and gold values.

The I.P. survey was conducted with "a" spacings of 25 and 75 metres and "n" separations of 1 and 2. The survey objective was to establish the presence of any large scale chargeability anomalies that could be attributable to a substantial porphyry style sulphide system. In order to provide better coverage over anomalous areas, the survey was broken down into the North Grid on which 9.9 line kms were run and the South Grid on which 3.75 line km of grid line were completed. All grid lines were established concurrently with the induced polarization survey.

Results

North Grid: A strong chargeability high coincident with very low resistivities (<100 ohm metres) and "flat" ground magnetic readings was detected at the south end of lines 1400E and 1600E. A southeast striking zone of weak to moderate chargeability highs coincident with weakly low resistivities was detected in the northwest corner of the grid. A magnetic high is located on the north edge of the anomaly. The anomaly appears related to an intrusive contact and possible structure.

South Grid: A small, four line 3.75 line km grid was established to follow-up the area where a chargeability high and a resistivity low were detected at end of 1400E and 1600E. The anomaly as defined by this grid strikes northeast, varies from 140 metres to 280 metres wide, is open along strike and is characterized by sharp contacts. Diamond drilling indicates the chargeability high is underlain by highly carbonaceous sediments.

The location of the survey lines on both the North and South Grids is plotted on Map 1. Chargeability and resistivity psuedosections for the North Grid are portrayed on Maps 10A to 10B. A plan view of North Grid chargeability results are shown on Map 11, resistivity results are on Map 12 and ground magnetometer results are on Map 13. Chargeability and resistivity pseudosections for the South Grid are portrayed on Map 14. A plan view of South Grid chargeability results are shown on Map 15, resistivity results are on Map 16 and ground magnetometer results are on Map 17.

A copy of the Geophysical Report provided by Scott Geophysics is included in Appendix X.

DIAMOND DRILLING

Three BGM drill holes totalling 267.92 metres were located on the Axe property in order to test geochemical and geophysical anomalies identified during the course of property work. The helicopter supported drill program was contracted out to Falcon Drilling of Prince George, B.C. The core was flown to the core shack on the adjacent GJ property (3.6 km west of hole 90-B-08) where it was logged, and the mineralized sections split and sampled at 3.0 metre or 1.5 metre intervals. The location of the drill holes are shown on Map 1. Drill logs are included in Appendix XI. Geochemical and assay results are in Appendix XII.

Results

Hole DDH-90-B08 was located on reconnaissance I.P. line 12+00E at approximately 9+75S to test a chargeability high that was coincident with a resistivity low. Ground magnetic readings are flat. The target is north, and on strike with a northeast oriented copper soil anomaly. Rock chip sampling of narrow quartz-calcite veins 130 metres west of the hole returned the best gold values on the property including 0.281 oz/ton over 5 cm.

The first 100 metres of the hole intersected propylitically altered andesite with minor calcite (≤2%) fracture filling and weak pyrite (1%) mineralization. The remaining 14.30 metres in the hole intersected carbonaceous siltstone containing 3 to 4% disseminated pyrite. The hole was shut down before its target depth in fault gouge and rubble. Geochemical results are low for all elements analyzed with a best copper value of 448 ppm and the highest gold value being 338 ppb. A cross-section through the hole is shown on Map 18.

Hole DDH-90-B09 was drilled on the South Grid along recce I.P. line 1400E at 6+00N. The hole was located to test the very strong chargeability anomaly and resistivity low identified on the South Grid.

Carbonaceous siltstones, rubble and fault gouge were intersected throughout the entire 50.29 metres of the hole. Geochemical results for analyzed core are low with the highest copper value at 64 ppm and the best gold value at 15 ppb. The hole was lost in sand and gouge. A cross section through the hole is shown on Map 19.

Hole DDH-90-B10 was drilled into the centre of a copper-gold soil geochemical anomaly on recce I.P. line 2+00E. The hole intersected propylitically altered greywacke, siltstone and breccia, some of which is carbonaceous. Between 12.00 and 21.00 metres the core is strongly clay altered, fractured and limonite stained. The interval contains ≤0.5% pyrite, trace arsenopyrite and yielded gold assays of 0.030 to 0.099 oz/ton along with arsenic values of 830 ppm to 6,090 ppm. Average values for the nine metre interval include 0.063 oz/ton Au, 2,800 ppm As, 640 ppm Cu and 3.8 ppm Ag. The remainder of the hole yielded low geochemical values. As with the previous two holes, hole 90-B10 was shut down before its target depth because of bad ground conditions. A cross section through the hole is shown on Map 20.

CONCLUSIONS

Prospecting, rock sampling and diamond drilling have identified narrow (3 cm to 20 cm) sulphide bearing quartz-calcite veins along Sentra and Fire Creeks on the northern portion of the Axe claims. Although the veins are narrow and erratic, values to 4,253 ppm Cu and 0.281 oz/ton Au have been obtained. Between the creeks, a weak to moderate strength copper soil anomaly coincident with elevated gold, silver, lead, zinc and arsenic values has been located. A single diamond drill hole (DDH-90-B10) tested the centre of the soil anomaly midway between Fire and Sentra Creeks and intersected a gold bearing interval. A nine metre interval of fractured and clay altered greywacke averaged 0.063 oz/ton Au.

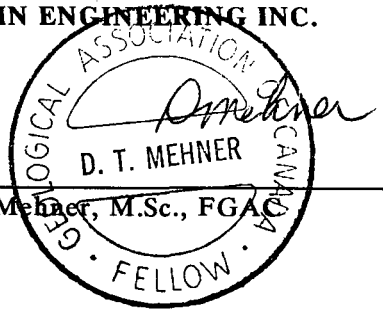
Geophysical surveys on the property have located a moderate chargeability anomaly coincident with moderate resistivity and a magnetic high. The anomaly is consistent with that expected from a porphyry copper sulphide system. A strong chargeability, low resistivity anomaly identified east of Fire Creek has been tested by one drill hole and appears to be caused by carbonaceous sediments and fault gouge.

RECOMMENDATIONS

Further prospecting and rock sampling along the trend of the gold bearing veins and structures between Fire and Sentra Creeks is recommended in order to locate mineralized structures that will require follow-up trenching and diamond drill testing.

Respectfully submitted,

KEEWATIN ENGINEERING INC.



David T. Mehner, M.Sc., FGAC

REFERENCES

Brock, J.S., 1990. Triumph Resources Ltd. Progress Report on the Castle Property.

Donnelly, D.A., Peatfield, G.R. and Gasteiger, W.A., 1976. Report on Geological and Geophysical Surveys and Supporting Work on the Groat Creek Claims (Canyon, Gully and Plateau Groups), Liard Mining Division. B.C. Department of Mines and Petroleum Resources, Assessment Report #6073.

Mehner, D.T., 1989. Assessment Report on Geological Mapping, Prospecting and Stream Silt Sampling of the Axe Claims, Beauchamps Exploration Option, Liard Mining Division. Assessment Report.

Mehner, D.T., 1990. Assessment Report on Silt, Soil and Rock Geochemical Sampling, an Induced Polarization Geophysical Survey and Diamond Drilling on the Rok Property, Liard Mining Division, B.C.

National Geochemical Reconnaissance, 1:250,000 Map Series, 1988: Geological Survey of Canada, Open File.

Northern Miner Newspaper, October 29, 1990, p. 18.

Panteleyev, A. 1977. Red-Chris Deposit (104H/12W) in Geology in British Columbia, 1976. British Columbia Department of Mines and Petroleum Resources, Victoria, pp. 125-127.

Phendler, R.W., 1980. Report on the Horn and Big Claims (covering the SF and Q.C. Prospects), Liard Mining Division, B.C. Unpublished Company Report for ERL Resources Ltd.

Schmitt, H.R., 1977. A Triassic-Jurassic Granodiorite, Monzodiorite Pluton South-Eat of Telegraph Creek, B.C. Unpublished B.Sc. Thesis, University of British Columbia, Vancouver, 91 pp.

Souther, J.G., 1971. Telegraph Creek Map Area, British Columbia. Geological Survey of Canada, Paper 71-44.

Webb, A.J., 1970. Report on Q.C. Group, Liard Mining Division, B.C., Amoco Company Report.

APPENDIX I

Statement of Expenditures

STATEMENT OF EXPENDITURES

Salaries			
Ron Nichols, Project Supervisor	6.0 days @ $425/day	$ 2,550.00	
David Mehner, Senior Geologist	10.5 days @ $375/day	3,937.50	
Marty Bobyn, Project Geologist	9.0 days @ $325/day	2,925.00	
Jason Miller, Geologist	13.5 days @ $275/day	3,712.50	
Bob Ryziuk, Geological Technician	3.0 days @ $300/day	900.00	
Frank Ferguson, Surveyor	2.0 days @ $325/day	650.00	
Mike Skeoch, Prospector	7.0 days @ $240/day	1,680.00	
Dan Perrett, Prospector	1.0 days @ $250/day	250.00	
Brian McIntyre, Prospector	6.0 days @ $275/day	1,650.00	
Grant Nagy, Sampler	3.5 days @ $250/day	875.00	
Curt Kauss, Sampler	9.0 days @ $225/day	2,025.00	
Colin Anderson, Labourer	0.5 days @ $230/day	115.00	
Chris Whatley, Sampler	2.0 days @ $230/day	460.00	
Trevor Shepard, Sampler	14.0 days @ $175/day	2,450.00	
Keith Louis, Sampler	5.0 days @ $175/day	875.00	
James Tashoots, Sampler	9.0 days @ $175/day	1,575.00	
Newton Carlick, Sampler	4.5 days @ $175/day	787.50	
Alex Hark, Sampler	4.0 days @ $175/day	700.00	
Verna Jordan, Cook/First Aid	17.0 days @ $250/day	4,250.00	
Joanne Lund, Cook/First Aid	1.0 days @ $250/day	250.00	
			$32,617.50
Accommodation and Food			
Includes pilot plus Scott Geophysics, Keewatin Engineering and Falcon Drilling personnel -	240 man days @ $ 60/man day		12,240.00
Equipment Use	121 man days @ $ 15/man day		1,815.00
Transportation			
Helicopter (including fuel)	56.1 hours @ $670/hour	$37,587.00	
Truck	20.0 days @ $ 35/day + fuel	1,186.86	
Motorbike - 4 wheel	16.0 days @ $ 35/day	560.00	
Motorbike - 2 wheel	2.0 days @ $ 25/day	50.00	
			45,530.00*
Diamond Drilling (contract) - 267.92 metres; footage plus consumables plus site preparation			39,383.86*
Geochemistry			
Soils (includes sample prep., Au fire geochem, Hg analysis and 7 element ICP)	392 samples @ $10.00 ea.	$ 3,920.00	
Silts (includes analysis as for soils)	7 samples @ $10.00 ea.	70.00	
Rocks (includes sample prep, plus analysis as for soils and silts)	80 samples @ $12.50 ea.	1,000.00	
Drill Core (analysis as for rocks)	81 samples @ $12.50 ea.	1,012.50	
			6,002.50*

Geophysics - contracted Induced Polarization and Ground Magnetic Survey			11,704.53*
Accommodation and Travel - staff travel to and from Vancouver-Smithers-Iskut Village			2,406.57*
Camp Maintenance & Communication - telephone, radios, generator, fuel, etc.			1,850.23*
Expediting - contract charges			1,305.86*
Field Supplies - consumables including sample bags, pickets, flagging, etc.			1,612.49*
Freight/Shipping - includes pro-rated share of camp mobilization			4,111.33*
Report Preparation			
D. Mehner	5.0 days @ $375/day	$1,875.00	
Drafting, typing, blueprints		980.00	
			2,855.00
Sub-Total:			**153,726.13**
Handling Fee - 10% on 3rd party invoices by Keewatin Engineering Inc. (denoted by *)			10,419.88
TOTAL EXPENDITURES:			**$164,146.31**

APPENDIX II

Summary of Personnel

SUMMARY OF PERSONNEL

Name	Position	Sampler Code	Dated Worked
David Mehner	Senior Geologist	"AA"	Jul. 30 (½ day); Aug. 8, 2 and 19 (½ days); Sept. 6, 9, 19, 21 and 25 (½ days); 23, 24; Oct. 4 (½ day); Nov. 8 (½ day); Dec. 6, 5 and 9 (½ days); Jan. 11 and 20 (½ days).
Marty Bobyn	Project Geologist	"F"	Jun. 23, 25-28, 30; Jul. 6, 21 (½ day); Aug. 15; Sept. 10 (½ day).
Jason Miller	Geologist	"O"	Jun. 25-30; Aug. 2 (½ day), 15; Sept. 12 and 25 (½ days); 23, 24; Oct. 6, 7, 8 and 20 (½ days).
Bob Ryziuk	Geological Technician	"BR"	Sept. 23 (½ day), 25; Oct. 1, 13 (½ day).
Frank Ferguson	Surveyor		June 23; July 27.
Mike Skeoch	Prospector	"U"	June 25-29; Sept. 24, 25.
Dan Perrett	Prospector	"DP"	August 20.
Brian McIntyre	Prospector	"X"	June 20, 25-29.
Grant Nagy	Sampler	"NN"	June 20; Aug. 9 (½ day); Sept. 12, 15.
Curt Kauss	Sampler	"Y"	June. 26-30; July 5; Aug. 3-5.
Colin Anderson	Labourer		Oct. 4 (½ day).
Chris Walley	Sampler		Jul. 25, 31.
Trevor Shepard	Sampler	"V"	Jun. 24-30; Jul. 1; Aug. 1-3, 6, 7, 20.
Keith Louis	Sampler	"CL"	Aug. 1-3, 20-21.
James Tashoots	Sampler	"JT"	Aug. 3, 4, 19-21; Sept. 23-24; Oct. 7, 8.
Newton Carlick	Labourer		Aug. 5-7, 19, 16 (½ day).
Alex Hark	Sampler	"AH"	Sept. 23, 24; Oct. 2, 3.
Verna Jordan	Cook/First Aid		Jun. 25-30; Jul. 25; Aug. 3, 4, 7, 21; Sept. 18-23.

Name	Position	Code	Dated Worked
Joanne Lund	Cook/First Aid		Oct. 8.
Ron Nichols	Project Supervisor		July 17, 20 August 3, 6; Sept. 7; Oct. 8.

APPENDIX III

Analytical Procedures Used by Min-En Laboratories

ANALYTICAL PROCEDURES USED BY MIN-EN LABORATORIES

Hg Analysis

Samples are processed by Min-En Laboratories at 705 West 15th Street, North Vancouver, B.C., employing the following procedures.

After drying the samples @ 30°C, soil, and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ring pulverizer.

A 0.50 gram subsample is digested for two hours in an aqua regia mixture. After cooling samples are diluted to standard volume.

Mercury is analyzed by combining with a reducing solution and introducing it into a flameless atomic absorption spectrometer. A three point calibration is used and suitable dilutions made if necessary.

ICP Analysis for Cu, Pb, Zn, Ag, As, Sb, Mo

After drying the samples at 95°C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized on a ring mill pulverizer.

0.50 gram of the sample is digested for two hours with an aqua regia mixture. After cooling samples are diluted to standard volume.

The solutions are analyzed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers.

Au Fire Geochem

A suitable sample weight; 15.00 or 30.00 grams is fire assay pre-concentrated. The precious metal beads are taken into solution with aqua regia and made to volume.

For Au only, samples are aspirated on an atomic absorption spectrometer with a suitable set of standard solutions. If samples are for Au plus Pt or Pd, the sample solution is analyzed in an inductively coupled plasma spectrometer with reference to a suitable standard set.

APPENDIX IV

Soil Geochemistry Results

COMP: KEEWATIN ENGRG.
PROJ: 153
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0S-0134-SJ3+4
DATE: 90/07/16
* SOIL * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90V 153S 168	2	.8	55	42	257	35	1	25	120
90V 153S 169	19	.1	63	29	127	84	1	3	105
90V 153S 170	46	.2	38	35	187	30	1	3	110
90V 153S 171	12	.4	91	34	318	56	1	3	85
90V 153S 172	7	.3	81	31	259	56	3	20	70
90V 153S 173	2	.6	32	30	290	35	1	5	65
90V 153S 174	1	.6	41	37	314	33	1	11	95
90V 153S 175	2	.5	46	42	208	121	1	4	105
90V 153S 176	21	.9	39	27	153	16	1	3	80
90V 153S 177	1	.2	43	37	242	28	1	3	75
90V 153S 178	2	.7	25	25	121	32	1	2	100
90V 153S 179	4	.5	60	31	140	99	1	2	90
90V 153S 180	51	.5	99	35	174	216	2	1	95
90V 153S 181	1	.9	18	23	73	10	1	1	85
90V 153S 182	5	.6	33	29	111	18	1	3	105
90V 153S 183	1	.6	31	30	70	31	1	1	75
90V 153S 184	2	.6	36	30	92	48	1	2	80
90V 153S 185	3	.9	50	30	120	45	1	3	150
90V 153S 186	6	.4	60	33	86	83	1	2	80
90Y 153S 117	2	.8	49	25	101	62	1	5	180
90Y 153S 118	1	.6	56	31	90	30	1	8	120
90Y 153S 119	4	.3	25	24	136	17	1	5	105
90Y 153S 120	5	.7	30	29	137	12	1	3	75
90Y 153S 121	2	.1	37	30	204	18	1	3	115
90Y 153S 122	1	1.3	35	29	135	6	1	3	110
90Y 153S 123	36	.6	40	33	106	28	1	1	110
90Y 153S 124	30	.7	48	27	80	56	1	2	50
90Y 153S 125	38	.8	75	29	79	61	1	1	75
90Y 153S 126	3	1.0	68	40	68	37	1	2	95
90Y 153S 127	1	.7	38	30	57	24	1	1	45
90Y 153S 128	22	1.0	41	31	99	50	1	1	60
90Y 153S 129	15	1.0	48	38	194	49	1	1	55
90Y 153S 130	61	1.5	30	39	145	1	1	1	90
90Y 153S 131	23	1.1	45	34	129	45	1	1	95
90Y 153S 132	17	.9	65	36	133	78	1	3	110
90Y 153S 133	1	1.0	34	62	283	21	1	2	215
90Y 153S 134	19	1.2	35	39	225	48	1	1	105
90Y 153S 135	21	1.4	37	34	182	56	1	1	80
90Y 153S 136	27	1.0	43	38	152	17	1	2	90
90Y 153S 137	12	.9	59	42	125	13	1	1	125
90Y 153S 138	1	1.0	120	37	92	49	1	1	75
90Y 153S 139	1	.7	53	44	161	48	1	3	120
90Y 153S 140	1	.9	47	57	98	1	1	2	150
90Y 153S 141	1	1.8	48	41	119	44	1	2	135
90Y 153S 142	1	3.1	63	45	188	28	1	1	85
90Y 153S 143	1	.7	37	32	72	1	1	1	90
90Y 153S 144	2	.8	27	27	58	6	1	2	100
90Y 153S 145	8	1.0	32	37	86	7	1	1	105
90Y 153S 146	10	.9	43	37	77	1	1	2	110
90Y 153S 147	1	.9	23	37	52	13	1	2	85
90Y 153S 148	3	1.1	51	35	62	7	1	1	70
90Y 153S 149	21	.8	42	40	78	18	1	1	80
90Y 153S 150	1	1.2	27	35	62	15	1	2	115
90Y 153S 151	1	1.0	30	43	68	9	1	2	85
90Y 153S 152	1	1.0	27	29	43	16	1	2	110

COMP: KEEWATIN ENGINEERING
PROJ: GJ 153
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0S-0113-SJ1+2
DATE: 90/07/10
* SOIL * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90Y 153S 001	1	.2	34	21	64	1	1	1	100
90Y 153S 002	2	.5	35	24	79	1	1	1	80
90Y 153S 003	1	.4	59	32	100	2	1	1	105
90Y 153S 004	1	.5	36	23	71	1	1	1	120
90Y 153S 005	4	.6	27	24	64	1	1	1	85
90Y 153S 006	2	.7	27	25	65	12	1	1	120
90Y 153S 007	1	.5	32	26	77	17	1	2	95
90Y 153S 008	2	.4	54	33	83	10	1	3	70
90Y 153S 009	6	1.5	92	52	183	51	1	2	115
90Y 153S 010	3	.5	80	33	138	109	1	9	95
90Y 153S 011	10	.6	64	28	79	28	1	1	60
90Y 153S 012	6	.5	55	29	79	28	1	1	55
90Y 153S 013	1	.4	41	26	61	3	1	2	95
90Y 153S 014	2	.3	108	35	106	37	1	1	45
90Y 153S 015	1	.3	42	26	77	18	1	1	110
90Y 153S 016	34	1.0	63	34	100	57	1	1	25
90Y 153S 017	2	.6	45	32	90	25	1	2	45
90Y 153S 018	1	.4	65	21	72	23	1	1	40
90Y 153S 019	1	1.0	59	32	91	37	1	1	40
90Y 153S 020	2	.8	70	34	84	22	1	2	30
90Y 153S 021	1	.5	87	30	78	14	1	1	25
90Y 153S 022	2	.7	56	30	84	5	1	2	15
90Y 153S 023	1	.9	74	27	89	22	1	1	5
90Y 153S 024	36	1.0	60	35	83	44	1	2	5
90Y 153S 025	2	.9	66	42	112	71	1	2	15
90Y 153S 026	1	.8	53	30	83	35	1	2	40
90Y 153S 027	2	.5	73	31	113	34	1	2	15
90Y 153S 028	1	.1	54	33	134	15	1	3	10
90Y 153S 029	2	.2	41	28	111	4	1	2	5
90Y 153S 030	1	.8	42	25	94	5	1	2	5
90Y 153S 031	1	.1	31	19	73	1	1	1	140
90Y 153S 032	2	.2	48	19	81	1	1	1	110
90Y 153S 033	1	.3	42	28	88	1	1	3	105
90Y 153S 034	1	.1	56	25	140	1	1	4	115
90Y 153S 035	4	.4	41	23	88	5	1	2	115
90Y 153S 036	2	.1	46	31	133	1	1	4	130
90Y 153S 037	2	.4	52	27	133	8	1	2	105
90Y 153S 038	3	.4	37	28	132	8	1	3	90
90Y 153S 039	7	.7	52	27	105	1	1	1	75
90Y 153S 040	1	.3	35	23	83	1	1	2	150
90Y 153S 041	1	.5	42	25	102	7	1	2	50
90Y 153S 042	15	.5	79	26	99	12	1	3	130
90Y 153S 043	6	.9	55	31	146	34	1	2	75
90Y 153S 044	142	.8	139	30	162	33	1	7	65
90Y 153S 045	2	1.3	109	32	172	52	1	4	110
90Y 153S 046	1	.4	45	24	109	22	1	2	30
90Y 153S 047	6	.6	23	23	95	8	1	2	60
90Y 153S 048	2	1.0	99	26	97	21	1	1	60
90Y 153S 049	1	.5	36	23	86	15	1	2	25
90Y 153S 050	5	.9	48	22	77	18	1	1	35
90Y 153S 051	42	1.0	93	34	138	131	1	2	35
90Y 153S 052	1	.8	36	21	70	23	1	2	30
90Y 153S 053	29	1.5	67	27	103	37	1	3	65
90Y 153S 054	9	.7	41	21	71	21	1	2	5
90Y 153S 055	2	1.2	61	24	111	30	1	3	85
90Y 153S 056	26	.7	27	23	102	15	1	2	45
90Y 153S 057	10	.6	28	26	94	21	1	2	45
90Y 153S 058	4	.2	58	28	100	29	1	8	70
90Y 153S 059	21	1.2	42	27	135	48	1	8	180
90Y 153S 060	9	.3	35	20	66	24	1	6	45

COMP: KEEWATIN ENGINEERING
PROJ: GJ 153
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0S-0113-SJ7+8
DATE: 90/07/10
* SOIL * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90V 153S 049	4	.7	207	31	404	54	1	1	115
90V 153S 050	10	.3	139	36	92	401	1	2	125
90V 153S 051	1	1.2	126	38	196	1289	10	4	285
90V 153S 052	46	1.4	134	65	129	452	8	7	210
90V 153S 053	34	1.0	133	41	465	751	4	6	100
90V 153S 054	8	.5	103	32	108	76	1	1	130
90V 153S 055	2	.9	138	37	153	168	3	3	75
90V 153S 056	5	.5	114	30	150	1	1	1	145
90V 153S 057	1	1.1	95	27	100	76	1	1	135
90V 153S 058	4	1.0	238	42	137	1	1	1	175
90V 153S 059	2	.9	100	42	137	15	3	2	190
90V 153S 060	1	1.2	102	30	99	69	1	1	30
90V 153S 061	3	1.8	129	45	382	31	4	5	130
90V 153S 062	1	.7	113	48	244	15	4	3	90
90V 153S 063	45	.6	97	34	148	60	1	1	30
90V 153S 064	1	.6	169	39	260	56	1	1	60
90V 153S 065	58	.1	131	32	268	23	1	1	140
90V 153S 066	1	1.7	174	41	147	378	5	1	45
90V 153S 067	2	.3	107	34	97	40	1	1	60
90V 153S 068	1	.1	135	40	106	60	3	2	10
90V 153S 069	1	.2	122	31	83	141	6	1	5
90V 153S 070	12	.6	129	36	124	65	2	1	10
90V 153S 071	65	.9	190	34	100	297	2	1	35
90V 153S 072	27	1.0	213	33	100	117	1	1	75
90V 153S 073	35	1.0	151	28	79	146	1	1	10
90V 153S 074	50	1.0	119	41	121	144	1	1	15
90V 153S 075	3	2.0	112	26	133	50	1	1	5
90V 153S 076	27	1.0	105	33	96	120	1	1	10
90V 153S 077	300	1.2	194	49	249	993	6	1	40
90V 153S 078	14	1.3	214	39	209	143	1	1	15
90V 153S 079	2	1.1	191	36	214	100	1	1	30
90V 153S 080	6	2.5	147	23	89	18	1	1	5
90V 153S 081	24	2.2	196	36	174	256	1	1	25
90V 153S 082	92	2.4	315	30	309	385	1	1	20
90V 153S 085	102	1.9	163	34	135	205	1	1	5
90V 153S 086	114	2.1	261	36	114	357	1	2	5
90V 153S 087	170	1.4	176	28	131	115	1	1	75
90V 153S 088	21	1.5	128	34	148	112	1	1	85
90V 153S 089	54	2.0	57	28	132	65	1	2	100
90V 153S 090	16	.9	58	29	115	50	1	1	75
90V 153S 091	4	1.6	80	26	69	33	1	1	85
90V 153S 092	139	2.4	205	35	137	124	1	1	135
90V 153S 093	2	1.8	118	31	153	129	1	1	105
90V 153S 094	9	1.2	37	26	92	35	1	1	80
90V 153S 095	5	.9	53	29	96	42	1	4	50
90V 153S 096	16	1.2	105	35	113	71	1	3	30
90V 153S 097	20	1.6	194	39	85	36	3	2	10
90V 153S 098	22	1.8	52	36	109	15	1	1	75
90V 153S 099	20	1.4	93	43	136	73	4	1	55
90V 153S 100	1	1.8	61	36	91	41	2	1	40
90V 153S 101	17	1.8	67	43	101	50	1	1	5
90V 153S 102	2	1.2	147	26	54	326	4	2	10
90V 153S 103	122	1.0	123	42	85	140	1	1	90
90V 153S 104	1	.5	48	35	58	31	2	2	40
90V 153S 105	2	.6	88	43	79	88	1	3	5
90V 153S 106	1	.7	42	38	131	33	1	1	20
90V 153S 107	2	.7	33	35	114	53	1	2	5
90V 153S 108	63	1.1	59	30	67	29	1	2	5

COMP: KEEWATIN ENGINEERING
PROJ: GJ 153
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0S-0113-SJ5+6
DATE: 90/07/10
* SOIL * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90V 153S 005	142	1.1	99	31	105	46	1	1	65
90V 153S 006	53	.7	150	43	116	39	1	1	40
90V 153S 007	36	1.5	122	42	117	102	1	1	15
90V 153S 008	2	1.7	49	23	106	1	1	1	25
90V 153S 009	1	.9	73	40	138	22	1	1	10
90V 153S 010	5	1.7	96	37	128	47	1	1	55
90V 153S 011	20	1.6	183	40	126	1	1	1	40
90V 153S 012	10	1.2	117	101	238	78	5	26	35
90V 153S 013	19	2.1	183	49	157	56	1	1	10
90V 153S 014	7	1.5	74	35	106	55	1	1	25
90V 153S 015	26	1.2	140	57	301	58	2	2	85
90V 153S 016	4	.6	58	44	175	12	1	3	45
90V 153S 017	2	.4	64	41	322	51	2	3	45
90V 153S 018	12	.1	62	57	266	26	1	3	55
90V 153S 019	21	3.9	202	181	6440	79	5	5	1100
90V 153S 021	9	1.9	130	119	513	75	4	3	780
90V 153S 024	17	.8	118	35	133	79	1	1	65
90V 153S 025	21	1.5	80	48	161	137	1	1	35
90V 153S 026	2	3.7	154	20	134	1	1	1	20
90V 153S 027	122	7.3	1472	97	661	981	35	11	90
90V 153S 028	40	.8	161	64	320	173	5	2	50
90V 153S 029	1	1.4	176	60	214	103	2	1	140
90V 153S 030	2	1.2	240	56	199	113	2	3	10
90V 153S 031	4	1.3	183	43	143	94	2	2	35
90V 153S 032	2	2.1	219	35	111	51	2	1	25
90V 153S 033	1	1.7	186	44	107	123	2	1	100
90V 153S 034	3	2.2	152	33	99	37	1	1	10
90V 153S 035	333	5.2	438	70	161	1342	9	1	90
90V 153S 036	220	7.1	290	82	167	463	3	1	175
90V 153S 037	133	3.4	266	57	161	741	6	1	105
90V 153S 038	181	2.8	218	41	134	146	6	2	290
90V 153S 039	5	1.3	207	51	150	70	5	3	85
90V 153S 040	1	.9	99	32	91	41	1	1	180
90V 153S 041	161	1.2	178	54	88	138	7	5	230
90V 153S 042	52	.9	111	38	74	71	2	2	45
90V 153S 043	2	1.3	179	41	120	7	1	1	110
90V 153S 044	4	.1	167	88	179	62	1	2	85
90V 153S 045	1	.6	187	41	96	49	1	1	45
90V 153S 046	88	1.1	244	57	101	46	2	1	60
90V 153S 047	7	1.1	195	41	73	14	1	1	30
90V 153S 048	2	.1	86	41	91	8	1	2	5

COMP: KEEWATIN ENGRG.
PROJ: 153
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0S-0134-SJ5+6
DATE: 90/07/16
* SOIL * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90Y 153S 153	1	.6	45	34	68	4	1	1	115
90Y 153S 154	1	.7	38	31	65	1	1	1	90
90Y 153S 155	2	.4	24	31	64	1	1	2	110
90Y 153S 156	1	.4	39	38	105	1	1	2	160
90Y 153S 157	27	.6	41	41	110	1	1	3	125
90Y 153S 158	20	.6	47	39	76	1	1	1	165
90Y 153S 159	30	.7	59	34	80	5	1	1	150
90Y 153S 160	2	.7	38	32	71	10	1	1	125
90Y 153S 161	150	1.2	37	30	91	15	1	1	365
90Y 153S 162	1	.7	27	39	54	1	1	3	145
90Y 153S 163	3	.7	42	36	63	1	1	1	125
90Y 153S 164	18	.8	27	31	64	1	1	1	85
90Y 153S 165	1	1.1	13	27	36	4	1	1	100
90Y 153S 166	1	1.0	21	28	42	8	1	2	145
90Y 153S 167	3	1.0	20	33	55	1	1	3	100
90Y 153S 168	60	.8	29	33	59	7	1	2	135
90Y 153S 169	7	.8	27	34	84	7	1	1	90
90Y 153S 170	1	1.0	27	31	56	3	1	1	140
90Y 153S 171	9	1.6	38	34	98	4	1	2	190
90Y 153S 172	7	1.2	23	31	52	3	1	1	130
90Y 153S 173	1	1.0	43	35	105	6	1	1	135
90Y 153S 174	1	1.3	45	35	78	1	1	1	110
90Y 153S 175	4	1.7	49	34	71	1	1	1	95
90Y 153S 176	1	1.7	68	25	86	1	1	1	75
90Y 153S 177	1	1.5	60	40	117	1	1	2	195
90Y 153S 178	3	1.0	49	35	112	1	1	2	110
90Y 153S 179	8	1.1	38	32	69	1	1	1	125
90Y 153S 180	1	1.4	27	38	77	10	1	2	105
90Y 153S 181	2	1.5	29	35	99	18	1	2	110
90Y 153S 182	2	1.3	34	32	74	11	1	2	145
90Y 153S 184	141	.5	36	28	52	12	1	1	220
90Y 153S 185	18	1.0	35	32	83	1	1	1	170
90Y 153S 186	6	1.1	35	29	98	1	1	2	210
90Y 153S 187	10	.8	43	37	78	1	1	1	200
90Y 153S 188	1	1.0	39	31	77	7	1	1	225
90Y 153S 189	50	1.5	22	23	16	2	1	2	210
90Y 153S 190	17	2.7	50	39	149	5	1	4	495
90Y 153S 191	16	.7	19	30	98	9	1	1	115
90Y 153S 192	3	.6	38	33	84	1	1	1	130
90Y 153S 193	3	.8	21	33	102	3	1	2	100
90Y 153S 194	10	.7	19	35	78	5	1	1	120
90Y 153S 195	5	.4	26	27	55	1	1	1	195

COMP: KEEWATIN ENGRG.
PROJ: 153
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0S-0134-SJ1+2
DATE: 90/07/16
• SOIL * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	AS PPM	CU PPM	MO PPM	PB PPM	SB PPM	ZN PPM	HG PPB
90U 153L 001	2	1.0	1	62	1	26	1	87	210
90U 153L 002	1	.5	8	56	1	40	1	128	230
90U 153S 001	12750	7.3	2824	241	1	39	19	72	155
90U 153S 002	2755	38.6	5477	1679	19	8215	48	6973	9250
90V 153S 083	142	1.8	616	273	1	80	5	172	255
90V 153S 084	86	1.4	131	241	1	46	2	126	190
90V 153S 114	5	.1	24	77	3	79	1	132	235
90V 153S 115	2	.3	27	98	2	43	2	99	170
90V 153S 116	2	.3	6	71	3	41	1	161	120
90V 153S 117	4	.2	55	83	1	43	1	136	125
90V 153S 118	20	1.3	178	134	3	44	3	149	170
90V 153S 119	16	.1	27	115	1	39	1	96	105
90V 153S 120	34	.7	19	232	1	37	1	67	145
90V 153S 121	21	.1	55	83	1	43	1	117	170
90V 153S 122	7	.4	175	98	1	61	1	87	265
90V 153S 123	3	.7	57	91	1	37	1	116	190
90V 153S 124	4	.1	18	65	2	71	1	232	250
90V 153S 125	16	.1	48	126	1	47	3	151	100
90V 153S 126	2	.1	63	116	1	33	1	45	125
90V 153S 127	6	.6	12	284	1	52	1	63	290
90V 153S 128	84	.7	193	141	1	37	1	174	145
90V 153S 129	23	.7	65	255	1	59	1	90	200
90V 153S 130	26	.5	93	112	1	64	1	267	280
90V 153S 131	4	.7	137	256	1	68	2	230	300
90V 153S 132	18	.2	194	201	2	62	3	169	240
90V 153S 133	12	1.1	139	157	1	64	1	170	305
90V 153S 134	17	1.6	94	132	1	34	1	135	120
90V 153S 135	3	1.8	31	107	1	60	1	189	350
90V 153S 136	2	2.2	1	146	1	24	1	181	85
90V 153S 137	2	2.6	1	125	1	21	1	171	65
90V 153 138	58	1.3	105	208	1	38	2	127	110
90V 153 139	37	1.3	309	197	2	50	5	566	205
90V 153 140	51	1.0	170	251	1	49	1	132	210
90V 153 141	2	1.2	137	238	1	43	3	117	220
90V 153 142	15	1.5	85	142	1	27	1	82	120
90V 153 143	16	.9	145	87	1	44	1	144	185
90V 153 144	1	1.1	222	125	1	43	1	162	160
90V 153 145	28	1.2	103	134	1	31	1	104	200
90V 153 146	2	.5	42	45	1	42	1	91	150
90V 153 147	5	.4	43	42	1	30	1	93	55
90V 153 148	2	1.2	41	45	1	41	1	123	140
90V 153 149	27	.8	38	37	1	32	1	121	110
90V 153 150	3	1.4	12	39	1	29	1	156	130
90V 153 151	6	1.4	163	71	1	45	1	223	190
90V 153 152	20	.8	45	64	1	32	1	122	105
90V 153 153	86	.8	66	114	1	40	1	156	115
90V 153 154	4	2.0	125	60	1	42	1	119	280
90V 153 155	1	.7	143	79	2	45	2	239	195
90V 153 156	3	.6	71	51	1	27	1	123	125
90V 153 157	2	.5	69	45	3	28	1	117	85
90V 153 158	3	.5	95	63	2	27	1	75	95
90V 153 159	1	.3	35	40	1	23	1	78	105
90V 153 160	1440	.5	88	105	1	42	3	124	180
90V 153 161	10	.7	25	26	1	25	1	64	85
90V 153 162	2	.9	20	20	1	26	1	85	150
90V 153 163	16	.6	166	116	2	50	4	166	120
90V 153 164	36	1.4	62	86	5	31	1	131	245
90V 153 165	10	.5	53	47	3	46	1	89	120
90V 153 166	2	.7	33	22	3	24	1	143	95
90V 153 167	1	.8	51	37	2	30	3	193	145

COMP: KEEWATIN ENGINEERING
PROJ: 153
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0V-1111-SJ14+12
DATE: 90/08/21
* SOIL * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90V153S200	2	.5	28	22	76	1	1	1	195
90V153S201	1	1.3	48	21	122	1	1	1	320
90V153S202	1	.6	38	22	65	1	1	1	205
90V153S203	1	.6	25	28	54	1	1	1	200
90V153S204	22	1.2	16	30	32	1	1	1	165
90V153S205	1	.7	40	25	116	1	1	1	235
90V153S206	8	.3	15	26	36	1	1	1	200
90V153S207	1	.7	32	33	60	1	1	1	295
90V153S208	16	1.2	48	34	92	1	1	1	350
90V153S209	1	1.0	36	36	107	1	1	1	210
90V153S210	1	1.4	43	29	75	1	1	1	345
90V153S211	1	1.7	48	26	56	1	1	1	370
90V153S212	16	1.6	57	31	21	1	1	1	505
90V153S213	2	.9	24	31	90	1	1	1	245
90V153S214	2	.9	58	26	80	1	1	1	395
90V153S215	1	.6	38	30	54	1	1	1	265
90V153S216	5	1.4	87	33	83	1	1	1	390
90V153S217	1	.9	26	35	58	1	1	1	215
90V153S218	6	1.3	56	32	85	1	1	1	315
90V153S219	3	1.4	32	31	78	1	1	1	165
90V153S220	2	.8	21	34	45	1	1	1	200
90V153S221	1	.8	37	26	84	1	1	1	215
90V153S222	3	.6	16	31	44	1	1	1	145
90V153S223	3	.8	13	30	66	1	1	1	205
90V153S224	1	.9	22	31	77	1	1	1	185
90V153S225	1	.8	24	23	67	1	1	1	180
90V153S226	2	1.1	28	28	70	1	1	1	235
90V153S227	16	1.5	27	26	70	1	1	1	150
90V153S228	3	1.4	29	26	83	1	1	1	175
90V153S229	4	.6	27	27	73	1	1	1	150
90V153S230	117	1.4	21	30	52	1	1	1	210
90V153S231	1	1.7	46	33	78	1	1	1	475
90V153S232	1	1.6	26	28	64	1	1	1	180
90V153S233	1	.1	14	65	13	1	2	4	280

COMP: KEEWATIN ENGRG.
PROJ: 153
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0V-1210-SD3
DATE: 90/08/29
* SOIL * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90V153 S 234	4	1.9	34	10	130	1	1	3	175
90V153 S 235	1	.9	28	7	85	14	1	2	95
90V153 S 236	1	1.4	32	12	53	26	1	2	215
90V153 S 237	2	1.2	51	11	110	8	1	1	250
90V153 S 238	1	1.6	35	14	143	12	1	1	170
90V153 S 239	4	1.2	52	12	12	25	4	2	245
90V153 S 240	3	1.1	33	12	90	16	1	1	195
90V153 S 241	1	2.1	31	10	114	15	1	2	195
90V153 S 242	2	1.3	24	14	59	10	1	4	80
90V153 S 243	2	.8	36	18	73	23	1	1	185
90V153 S 244	1	1.1	51	9	90	9	1	1	85
90V153 S 245	3	1.1	44	8	87	22	1	2	65
90V153 S 246	2	1.4	66	5	102	24	1	1	125
90V153 S 247	1	1.0	46	9	81	40	1	1	115
90V153 S 248	14	1.2	36	9	86	47	1	1	105
90V153 S 249	2	1.4	49	19	116	26	1	1	175
90V153 S 250	2	1.5	49	14	105	32	1	2	115
90V153 S 251	151	1.1	92	13	129	49	2	4	105

COMP: KEEWATIN ENGINEERING
PROJ: GJ 153
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0S-0113-SJ9
DATE: 90/07/10
* SOIL * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90V 153S 109	13	.9	37	27	58	30	1	2	20
90V 153S 110	15	1.5	52	27	79	35	1	1	15
90V 153S 111	11	.9	60	27	86	68	1	1	10
90V 153S 112	16	.9	43	27	60	22	1	1	5
90V 153S 113	22	.7	86	51	178	351	1	2	5
90X 153S 001	19	1.3	153	52	180	4	1	1	25
90X 153S 002	1485	6.5	331	275	546	10420	32	1	30

COMP: KEEWATIN ENGINEERING
PROJ: GJ 153
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0S-0113-SJ3+4
DATE: 90/07/10
* SOIL * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90Y 153S 061	12	.6	44	23	88	22	3	10	40
90Y 153S 062	2	.8	15	29	192	14	1	5	180
90Y 153S 063	2	.4	34	20	96	14	1	5	65
90Y 153S 064	3	.5	47	25	119	10	1	4	95
90Y 153S 065	2	1.1	62	27	92	15	1	4	150
90Y 153S 066	24	1.6	51	31	125	29	3	5	300
90Y 153S 067	36	1.7	29	37	88	28	3	2	195
90Y 153S 068	21	1.8	49	29	205	32	1	3	220
90Y 153S 069	4	1.2	16	31	192	59	7	12	110
90Y 153S 070	6	.9	23	25	115	23	3	9	170
90Y 153S 071	4	1.1	30	23	126	315	5	7	120
90Y 153S 072	15	.4	21	36	267	50	4	13	225
90Y 153S 073	24	2.1	74	38	147	242	5	9	325
90Y 153S 074	2	.7	9	23	62	19	2	3	70
90Y 153S 075	16	1.0	45	34	117	210	3	6	95
90Y 153S 076	2	.5	26	35	58	99	1	67	185
90Y 153S 077	1	1.2	8	22	102	22	3	11	240
90Y 153S 078	2	1.9	86	41	337	36	2	13	145
90Y 153S 079	1	1.3	27	24	49	24	4	3	160
90Y 153S 080	20	1.7	65	38	199	84	4	4	110
90Y 153S 081	2	.9	51	37	106	9	1	1	45
90Y 153S 082	1	.8	52	29	83	7	1	1	50
90Y 153S 083	1	1.1	20	25	44	5	1	1	15
90Y 153S 084	1	3.1	15	33	49	75	10	3	120
90Y 153S 085	3	.7	29	26	45	4	1	1	70
90Y 153S 086	1	.9	52	33	115	8	1	2	35
90Y 153S 087	2	1.0	34	32	83	13	1	1	5
90Y 153S 088	1	1.0	35	27	103	12	1	1	150
90Y 153S 089	4	1.6	49	30	116	12	1	1	225
90Y 153S 090	6	1.2	50	30	82	17	1	1	110
90Y 153S 091	2	.7	89	28	135	1	1	2	140
90Y 153S 092	1	.7	25	23	67	1	1	1	80
90Y 153S 093	1	1.0	52	22	108	1	1	1	175
90Y 153S 094	3	.9	43	27	59	5	1	1	145
90Y 153S 095	1	.9	32	23	68	2	1	1	140
90Y 153S 096	1	.8	29	19	47	1	1	1	125
90Y 153S 097	1	.8	41	26	54	10	1	1	165
90Y 153S 098	26	.9	48	28	56	3	1	1	175
90Y 153S 099	3	1.5	71	29	81	12	1	1	280
90Y 153S 100	1	1.2	66	36	78	1	1	2	275
90Y 153S 101	1	.9	25	23	92	1	1	1	100
90Y 153S 102	2	.7	39	25	101	4	1	2	140
90Y 153S 103	3	.7	40	29	92	1	1	1	105
90Y 153S 104	3	.9	37	25	63	6	1	1	80
90Y 153S 105	1	.8	48	24	96	1	1	1	135
90Y 153S 106	1	1.0	40	29	80	5	1	2	140
90Y 153S 107	2	.1	48	55	171	1	1	4	210
90Y 153S 108	1	1.4	39	35	110	14	2	1	185
90Y 153S 109	1	.7	35	36	177	4	1	1	75
90Y 153S 110	1	.7	51	30	96	29	1	3	315
90Y 153S 111	1	.4	44	23	76	1	1	1	110
90Y 153S 112	2	1.1	85	33	128	1	1	1	140
90Y 153S 113	1	.9	64	23	130	1	1	2	115
90Y 153S 114	2	1.3	23	29	58	11	1	1	245
90Y 153S 115	4	.7	36	31	81	6	1	1	65
90Y 153S 116	2	1.0	30	28	82	1	1	1	110
90V 153S 001	6	1.8	150	38	121	19	2	1	135
90V 153S 002	1	1.3	130	45	97	6	1	1	90
90V 153S 003	9	.8	93	43	119	39	1	3	105
90V 153S 004	160	1.0	115	35	122	87	1	2	110

SOIL
BOND

COMP: KEEWATIN ENGINEERING
PROJ: 152
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0V-1111-SJ11
DATE: 90/08/21
* SOIL * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90V152S192	1	.8	37	49	96	1	1	1	260
90V152S193	3	1.1	46	37	101	1	1	1	575
90V152S194	1	1.0	32	29	93	1	1	1	240
90V152S195	2	.6	50	24	99	1	1	1	235
90V152S196	1	.8	58	26	100	1	1	1	275
90V152S197	1	1.1	49	30	108	1	1	1	250
90V152S198	1	.7	41	27	96	1	1	1	260
90F152S003	3	1.0	178	342	51	1	75	33	4650

COMP: KEEWATIN ENGINEERING
PROJ: 152
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0V-1111-SJ9+10
DATE: 90/08/21
* SOIL * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90V152S105	2	.5	132	45	83	1	1	1	220
90V152S106	1	.9	90	27	83	1	1	1	160
90V152S107	1	.2	109	34	76	1	1	1	270
90V152S108	2	.4	66	23	93	1	1	1	240
90V152S109	4	.5	71	17	64	1	1	1	195
90V152S110	1	.6	120	22	60	1	1	1	250
90V152S111	3	.1	151	33	65	1	1	1	155
90V152S112	2	.5	553	36	57	1	1	1	220
90V152S113	1	.1	110	32	37	1	1	1	400
90V152S114	2	.3	76	23	38	1	1	1	170
90V152S115	5	.4	123	26	75	1	1	1	310
90V152S116	3	.2	90	22	79	1	1	1	250
90V152S117	1	1.3	116	26	91	1	1	5	380
90V152S118	4	.3	173	37	87	1	1	1	260
90V152S119	1	.9	55	24	71	1	1	1	200
90V152S120	1	1.0	69	27	137	1	1	1	215
90V152S121	2	.1	157	47	62	1	1	1	180
90V152S122	2	1.5	82	18	98	1	1	1	140
90V152S123	1	1.5	74	20	82	1	1	1	170
90V152S124	3	1.5	67	23	79	1	1	1	185
90V152S125	2	.8	71	19	86	1	1	1	225
90V152S126	4	.9	69	25	89	1	1	1	155
90V152S127	2	.5	105	34	68	1	1	1	185
90V152S128	1	.7	79	27	72	1	1	1	195
90V152S129	2	1.6	85	33	90	1	1	1	165
90V152S130	1	1.2	109	38	58	1	1	1	195
90V152S131	2	.1	120	44	54	1	1	1	180
90V152S132	3	.2	125	32	56	1	1	1	165
90V152S133	2	.5	93	41	66	1	1	1	155
90V152S134	2	.6	78	30	94	1	1	1	185
90V152S135	1	.4	57	38	87	1	1	1	205
90V152S136	2	.2	74	34	93	1	1	1	175
90V152S137	14	.1	64	24	104	1	1	1	180
90V152S138	2	.2	96	18	53	1	1	1	140
90V152S139	11	.2	47	30	70	1	1	1	210
90V152S140	1	.1	98	29	66	1	1	1	110
90V152S141	2	.7	80	32	71	1	1	1	185
90V152S142	1	.9	83	23	75	1	1	1	170
90V152S143	5	.8	57	23	96	1	1	1	230
90V152S144	1	1.0	68	25	75	1	1	1	170
90V152S145	1	1.3	44	18	87	1	1	1	175
90V152S146	2	2.1	61	18	65	1	1	1	215
90V152S147	2	2.3	37	29	91	1	1	1	165
90V152S148	1	1.3	39	24	94	1	1	1	205
90V152S149	1	1.6	64	24	77	1	1	1	210
90V152S150	1	2.1	42	27	87	1	1	1	205
90V152S151	2	.9	57	29	82	1	1	1	175
90V152S152	3	1.8	324	32	120	1	1	1	165
90V152S153	1	2.5	45	22	125	1	1	1	155
90V152S154	1	1.6	89	29	95	1	1	1	220
90V152S155	1	2.3	71	19	103	1	1	1	165
90V152S156	1	.9	68	29	83	1	1	1	215
90V152S157	1	.5	82	37	74	1	1	1	145
90V152S158	2	1.6	47	28	75	1	1	1	210
90V152S187	1	1.1	61	29	105	1	1	1	225
90V152S188	1	1.3	52	25	102	1	1	1	220
90V152S189	22	1.2	62	29	110	1	1	1	260
90V152S190	2	1.7	102	34	106	1	1	1	300
90V152S191	1	.9	47	27	95	1	1	1	205

SJ 151

APPENDIX V

Soil Sample Descriptions

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Beauchamp Option — Results Plotted By: Michael Skeoch

Area (Grid): #153 — Map: _____ N.T.S.: _____

Collectors: Michael Skeoch — Date July 7/90

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: Good	Horizon Development: Poor	Parent Material: Drift	Parent Material: Bedrock	Colour
90W153S01			Basswood soil in Tal us slope		✓									A		✓		✓		R
90W153S02			Soil on extremities of second glance											A		✓			✓	R

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Beauchamp #153 — Results Plotted By: _____

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

Collectors: Trevor Shephard — Date July 1990

Sample Number 90V1535	Sample Location: Elev meters ~~Line~~	Sample Location: meters Station	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample (cm)	Soil Data: Horizon Development Good	Soil Data: Horizon Development Poor	Soil Data: Parent Material Drift	Soil Data: Parent Material Bedrock	Soil Data: Colour
174	1230	28+50	Silt/Sand/Frag 50/20/30 A		290			✓						B	30	✓			✓	MRG
175	1240	29+00	Silt/Frag/org 40/40/20 A		290			✓						B	30	✓			✓	MRA
176	1250	29+50	Silt/Frag/org 40/40/20 A		290			✓						B	30	✓			✓	MRB
177	1250	30+00	Silt/Sand/Frag 40/20/40 A		290			✓						B	35	✓			✓	MRB
178	1240	30+50	Silt/Frag 60/30 A		290			✓						B	30	✓			✓	MRB
179	1240	31+00	Silt/Frag/org 60/20/20 A		290			✓						B	35	✓			✓	LRB
180	1240	31+50	Silt/Sand/Frag 50/20/30 SA		290			✓						B	30	✓			✓	MRB
181	1240	32+00	Silt/Sand/Frag 60/20/20 SA		270			✓						B	20	✓			✓	MRB
182	1230	32+50	Silt/clay/Frag 60/30/10 SR		270			✓						B	20	✓			✓	MRB
183	1235	33+00	Silt/clay/Frag/Sand 35/15/25/25 SA		210			✓						B	30	✓			✓	MB
184	1235	33+50	Silt/clay/Frag 70/20/10 SR		210			✓						B	30	✓			✓	LB
185	1230	34+00	Silt/clay/Frag 40/40/30 SA		210			✓						B	30	✓			✓	DB
186	1230	34+50	Silt/Sand/Frag SA		210			✓						B	25	✓			✓	MRB
	line continues under new #152 property																			

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Beauchamp 153 — Results Plotted By: _____

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

Collectors: Trevor Shephard — Date June 1990

Sample Number 90V153S	Sample Location: Elev. meters	Sample Location: meters Station	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample (cm)	Soil Data: Horizon Development: Good	Soil Data: Horizon Development: Poor	Soil Data: Parent Material: Drift	Soil Data: Parent Material: Bedrock	Soil Data: Colour
continue Kurt Kauss' line																				
146	1250	13+00	silt/sand/frag/org 50/20/20/10 A		330				✓					B	20	✓			✓	MRB
147	1240	13+50	silt/sand/frag 60/20/20 A		330				✓					B	20	✓			✓	MRB
148	1230	14+00	silt/sand/frag 70/10/20 A		330				✓					B	35	✓			✓	MRB
149	1240	14+50	silt/sand/frag 60/20/20 A		330				✓					B	40	✓			✓	MRB
150	1230	15+35	sand/silt/frag 20/50/30 A		330				✓					B	40	✓			✓	MRB
151	1230	16+00	silt/sand/frag 40/10/50 A		330				✓					B	35	✓			✓	MRB
152	1220	16+50	silt/sand/frag 50/10/40 A		330				✓					B	30	✓			✓	MRB
153	1210	17+00	silt/sand/frag 60/20/20 A		350				✓					B	30	✓			✓	MRB
154	1215	18+00	silt/frag/org 30/30/40 A		350				✓					B	30		✓		✓	MRB
155	1215	18+50	silt/sand/frag 50/20/30 A		350				✓					talus					✓	LB
156	1230	19+00	silt/sand/frag 70/10/20 A		300			✓						B	30	✓			✓	MRB
157	1230	19+50	silt/sand/frag 70/10/20 A		300			✓						B	30	✓			✓	MRB
158	1230	20+00	silt/sand/frag 60/30/10 A		300			✓						B	30	✓			✓	LRB
159	1240	20+50	silt/sand/clay 50/20/30 A		300			✓						B	30	✓			✓	LB
160	1240	21+00	silt/sand/org/frag 50/10/30/10 A		300			✓						B	30	✓			✓	LRB
161	1240	21+50	silt/sand/clay 50/20/30 A		280			✓						B	20	✓			✓	LRB
162	1240	22+00	silt/sand/clay/frag 60/10/20/10 A		280			✓						B	30	✓			✓	MRB
163	1215	22+50	silt/frag 50/50 A		250			✓						B	30	.	✓		✓	DB
164	1210	23+00	silt/clay/frag 70/20/10 SA		280			✓						B	20	✓			✓	MB
165	1210	23+50	silt/sand/frag 60/10/30 SA		320			✓						B	20	✓			✓	MB
166	1230	24+00	silt/sand/frag 50/30/10 SA		320			✓						B	25	✓			✓	LRB
167	1230	24+50	silt/sand/frag 40/30/30 A		320			✓						B	30	✓			✓	MRB
168	1230	25+00	silt/frag/clay 50/30/20 A		320			✓						B	30	✓			✓	MB
169	1230	26+00	silt/sand/clay 60/20/20 A		320			✓						B	25	✓			✓	MB
170	1230	26+50	silt/sand/frag 50/20/30 A		320			✓						B	25	✓			✓	MRB
171	1235	27+00	silt/frag/org 40/40/20 A		320			✓						B	30	✓			✓	MRB
172	1230	27+50	silt/sand/clay 60/20/20 A		290			✓						B	30	✓			✓	LB
173	1230	28+00	silt/sand/frag 40/30/30 A		290			✓						B	30	✓			✓	MRB
[illegible]																			✓	

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Beaverhome #153 — Results Plotted By: _____

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

Collectors: Trevor Shephard — Date June 1990

Sample Number 90V153S	Sample Location: Elev meters	Sample Location: meters Station	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample cm	Soil Data: Horizon Development Good	Soil Data: Horizon Development Poor	Soil Data: Parent Material Drift	Soil Data: Parent Material Bedrock	Soil Data: Colour
118	1420	2+00	silt/sand/frag 70/20/10 A		290							✓		B	10	✓			✓	MB
119	1420	2+50	silt/sand 50/50 A		40							✓		talus			✓		✓	MB
120	1420	3+00	silt/sand/frags 40/20/40 A		40							✓		talus			✓		✓	DB
121	1430	3+50	silt/sand/frag/org 60/10/10/20 A		40			✓						B	30		✓		✓	DBR
122	1425	4+00	silt/sand/frag 60/10/30 A		35							✓		B	30		✓		✓	MB
123	1420	4+50	silt/frag/org 50/40/10 A		330							✓		B	25		✓		✓	MB
124	1430	5+00	silt/frag/org 30/60/10 A		330							✓		B	30		✓		✓	MB
125	1430	5+50	silt/frag/org 40/50/10 A		330							✓		B	30		✓		✓	LRB
126	1430	6+00	silt/sand/frag 60/20/20 A		330							✓		B	25	✓			✓	LR
127	1430	6+50	silt/frag/org 30/40/30 A		330							✓		A	30		✓		✓	DB
128	1430	7+00	sand/silt/clay 30/50/20 A		330							✓		talus					✓	LB
129	1490	7+50	silt/frags/org 50/30/20 A		330							✓		B	40		✓		✓	DB
130	1440	8+00	silt/sand/frag 60/20/20 A		330							✓		B	35		✓		✓	MB
131	1440	8+50	silt/frag/org 40/30/30 A		330							✓		A	25		✓		✓	DB
132	1440	9+00	silt/frag/org 60/20/20 A		330							✓		B	10	✓			✓	MRB
133	1430	9+50	silt/sand/frag/clay 60/10/20/10 A		330							✓		B	40	✓			✓	LRB
134	1430	10+00	silt/sand/frags 40/30/30 A		330							✓		B	40	✓			✓	MRB
135	1430	10+50	sand/silt/org 10/60/20 A		330							✓		B	20	✓			✓	MRB
136	1410	11+00	silt/sand 50/50 A		330							✓		talus					✓	MB
137	1420	11+80	silt/sand 50/50 A		330							✓		talus					✓	MB
138	1420	12+00	silt/sand/frags 40/40/20 A		330							✓		talus					✓	DB
139	1450	12+50	silt/sand/frags 50/20/30 A		380							✓		B	30	✓			✓	MRB
140	1450	13+00	sand/silt 50/50 A		340							✓		talus					✓	LR
		13+50	N.S.																✓	
141	1450	14+00	sand/silt 50/50 A		340							✓		talus					✓	MRB
142	1440	14+50	sand/silt/frag 30/30/40 A		340							✓		B	30	✓			✓	MRB
143	1440	15+00	silt/clay/sand 60/20/20 A		310							✓		B	35	✓			✓	MRB
144	1440	15+50	silt/frags 50/50 A		310							✓		B	35	✓			✓	MRB
145	1430	16+00	sand/silt 50/50 A		310							✓		B	5	✓			✓	MRB
																			✓	

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Beauchamp # 153 — Results Plotted By: _____

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

Collectors: Trevor Shephard — Date: June 1990

Sample Number 90V153S	Sample Location: Elev. meters	Sample Location: meters Station	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample cm	Soil Data: Horizon Development Good	Soil Data: Horizon Development Poor	Soil Data: Parent Material Drift	Soil Data: Parent Material Bedrock	Soil Data: Colour
089	1250	16+00	silt/sand/frag/org 70/10/10/10 A		270			✓						B	10	✓			✓	LRB
090	1290	16+50	silt/sand/frag 70/10/20 A		250			✓						B	25	✓			✓	MRB
091	1290	17+00	silt/sand/frag/clay 70/10/10/10 A		250			✓						A	25	✓			✓	MRB
092	1290	17+50	silt/frag/org 70/20/10 A		N			✓						B	25	✓			✓	MRB
093	1300	18+00	silt/sand/frag 60/20/20 A		320				✓					B	25	✓			✓	MRB
094	1310	18+50	silt/sand/org 40/40/20 A		270			✓						B	20	✓			✓	MRB
095	1310	19+00	silt/frag/org 40/40/20 A		270			✓						B	20	✓			✓	MRB
096	1310	19+50	silt/sand/frag 70/20/10 A		30							✓		B	25	✓			✓	MRB
097	1300	20+00	silt/frag 50/50 A		30							✓		A	25		✓		✓	DB
098	1320	20+50	silt/frag/org 40/40/20 A		360							✓		B	25	✓			✓	MRB
099	1325	21+00	silt/frags 40/60 A		330							✓		B	30	✓			✓	MRB
100	1325	21+50	silt/frags 40/60 A		340							✓		B	30	✓			✓	MRB
101	1320	22+00	silt/frags 50/50 A		340							✓		B	20	✓			✓	MRB
102	1330	22+50	silt/sand/clay/frag 60/20/10/10 A		340				✓					B	20	✓			✓	LRB
103	1330	23+00	silt/sand/clay/frag 70/10/10/10 A		340				✓					B	10	✓			✓	LRB
104	1340	23+50	silt/sand/frag 70/20/10 A		25				✓					B	40	✓			✓	LRB
105	1345	24+00	silt/sand/frag 70/20/10 A		295	✓	✓							B	20	✓			✓	MRB
106	1340	24+50	silt/sand/frag 60/30/10 A		265	✓	✓							B	30	✓			✓	MRB
107	1340	25+00	silt/clay/frag 60/30/10 A		270		✓							B	20	✓			✓	MRB
108	1350	25+50	silt/sand/frag/clay 60/10/10/20 A		270		✓							B	20	✓			✓	MRB
109	1350	26+00	silt/clay/frag 60/20/20 A		190		✓							B	20	✓			✓	MRB
110	1360	26+50	silt/sand/frag 60/20/20 R#A		140		✓							B	30	✓			✓	MRB
111	1360	27+00	silt/sand/frag 60/30/10 A		230		✓							B	40	✓			✓	MRB
112	1370	27+50	silt/sand/frag 70/10/20 A		310		✓							B	20	✓			✓	MRB
113	1380	28+00	silt/sand/frag 60/20/20 A		220		✓							B	10	✓			✓	MRB
new line																				
114	1445	0+00	silt/frag/org 60/30/10 A		N							✓		B	25		✓		✓	
115	1450	0+50	silt/frag/org 40/40/20 A		N							✓		A	15	✓			✓	
116	1450	1+00	silt/frag/org 60/20/20 A		N			✓						B	20	✓			✓	
								✓						B	30	✓			✓	

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Beauchamp #153 — Results Plotted By: ____

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

Collectors: Trevor Shephard — Date June 1990

Sample Number 90V1535	Sample Location: Elev. meters	Sample Location: meters Station	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample (cm)	Soil Data: Horizon Development Good	Soil Data: Horizon Development Poor	Soil Data: Parent Material Drift	Soil Data: Parent Material Bedrock	Soil Data: Colour
059	1370	1+85	silt/org 50/50 A		N				✓					tallus	fine				✓	DB
060	1380	2+00	silt/sand/frag 50/30/20 A		N				✓					B	20	✓			✓	LRB
061	1340	2+00	silt/sand/org 60/20/20 A		340				✓					tallus	fine				✓	DB
062	1340	2+50	silt/clay/frag 50/20/30 A		340				✓					B	40	✓			✓	LB
063	1340	3+00	silt/clay/frag 70/20/10 A		340				✓					B	40	✓			✓	LRB
064	1340	3+45	silt/sand/frag 50/30/20 A		340				✓					B	30	✓			✓	LRB
065	1330	4+00	silt/sand/frag 60/20/20 A		340				✓					B	30	✓			✓	MRB
066	1330	4+30	silt/sand/frag 60/30/10 A		340				✓					B	20	✓			✓	DRB
067	1340	5+00	silt/sand/frag 60/20/20 A		340				✓					B	40	✓			✓	LRB
068	1340	5+50	silt/frag 50/50 A		340				✓					B	35	✓			✓	MRB
069	1340	6+00	silt/sand/frag 50/30/30 A		340				✓					B	30	✓			✓	MRB
070	1340	6+50	silt/sand/frag 50/30/20 A		340				✓					B	30	✓			✓	MRB
071	1340	7+00	silt/sand/frag 30/20/50 A		340				✓					B	40		✓		✓	MB
072	1340	7+50	silt/sand 50/50 A		330							✓		tallus	fine				✓	LB
073	1340	7+70	silt/sand 50/50 A		330							✓		tallus	fine				✓	LB
074	1340	8+00	silt/sand/frag 50/20/30 A		330							✓		B	30	✓			✓	MRB
075	1350	8+50	silt/sand/frag 40/40/20 A		330							✓		B	40	✓			✓	MB
076	1350	9+00	silt/frag/org 50/40/10 A		330							✓		O	40	✓			✓	DB
077	1350	9+50	silt/sand/frag 50/30/20 A		310							✓		A	40	✓			✓	MB
078	1350	10+00	silt/sand/frag/org A		310							✓		B	30	✓			✓	MRB
079	1340	10+50	silt/sand/org/frag 40/20/20/20 A		310							✓		tallus	fine				✓	MB
080	1330	11+50	silt/sand/org 40/40/20 A		310							✓		tallus	fine				✓	MB
081	1340	12+00	sand/silt/frags/org 30/30/20/20 A		310				✓					tallus	fine				✓	MB
082	1320	12+50	silt/frag 50/50 A		310				✓					tallus	fine				✓	MB
083	1320	13+00	silt/sand/frag 30/30/40 A		310				✓					tallus	fine				✓	LB
084	1320	13+50	sand/silt/org 40/30/30 A		290				✓					tallus	fine				✓	LB
085	1300	14+00	silt/frag/org 60/20/20 A		300				✓					B	25	✓			✓	MRB
086	1280	14+50	silt/frag/org 50/20/30 A		300				✓					B	20		✓		✓	MRB
087	1270	15+00	silt/frag/org 60/20/20 A		300				✓					B	25	✓			✓	MRB

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Beauchamp #153 — Results Plotted By: _____

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

Collectors: Trevor Shephard — Date June 1990

Sample Number	Sample Location: Elev. meters	Sample Location: meters Station	Notes		Topography: Valley Bottom	Topography: Direction of slope (Up)	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample (cm)	Soil Data: Horizon Development Good	Soil Data: Horizon Development Poor	Soil Data: Parent Material Drift	Soil Data: Parent Material Bedrock	Soil Data: Colour
90V1535																					
030	1500	15+50	silt/frag/org 50/40/10	A		330							✓		B	25	✓			✓	MB
031	1490	16+00	silt/sand/frag 60/20/20	A		330							✓		B	35	✓			✓	MRB
032	1490	16+50	silt/frag/clay 50/30/20	A		330							✓		B	20	✓			✓	MRB
033	1500	17+00	silt/frag/org 40/20/40	A		300							✓		A	30	✓			✓	DB
034	1500	17+50	silt/frag/sand 30/50/20	A		300							✓		B	40	✓			✓	MRB
035	1510	18+00	silt/sand/frag 40/30/30	A		300							✓		B	50	✓			✓	MRB
036	1520	18+50	silt/frag/org 40/40/20	A		300							✓		B	40		✓		✓	MB
037	1520	19+00	silt/frag/org 30/50/20	A		340							✓		B	40		✓		✓	DB
038	1530	19+50	silt/frag/org 30/50/20	A		340							✓		A	30		✓		✓	DB
039	1540	20+00	sand/frag/silt 20/30/50	A		340				✓					talus		fine			✓	MB
040	1520	20+50	sand/frag/org 40/30/30	A		340				✓					A	30		✓		✓	DB
041	1500	21+00	silt/frag/org/sand 40/20/20/20	A		340				✓					talus		fine			✓	MB
042	1480	21+50	silt/sand/frag/org 40/20/20/20	A		340				✓					talus		fine			✓	MB
043	1490	22+00	silt/frag/sand 40/30/30	A		340							✓		talus		fine			✓	LB
044	1500	22+50	silt/frag/org 30/40/30	A		340							✓		B	25		✓		✓	DB
045	1510	23+00	silt/sand/frag 30/40/30	A		340							✓		talus		fine			✓	MB
046	1510	23+50	silt/frag/org 40/40/20	A		360							✓		B	50		✓		✓	LB
047	1510	24+00	silt/sand/frag 40/30/30	A		360							✓		talus		fine			✓	DB
048	1500	24+50	silt/frag/clay 40/40/20	A		50							✓		talus		fine			✓	MB
049	1506	25+00	silt/sand/frag 40/30/30	A		50							✓		talus		fine			✓	MB
050	1500	25+50	silt/sand 50/50	A		50							✓							✓	MB
051	1540	26+00	silt/sand/frag 60/20/20	A		N							✓							✓	MB
052	1500	26+50	silt/sand/frag 60/20/20	A		N							✓							✓	MB
053	1510	27+00	silt/sand/frag 50/30/20	A		N							✓		talus		fine			✓	LB
054	1500	27+30	silt/frag/org 60/20/20	A		N							✓		A	30				✓	
new line																				✓	
055	1350	0+00	silt/frag/clay/org 50/20/20/10	A		N				✓					B	35		✓		✓	DB
056	1350	0+50	silt/frag/org 30/30/40	A		N				✓					A	50		✓		✓	Dbl
057	1360	1+00	silt/sand/frag 50/30/20	A		N				✓					B	20	✓			✓	MRB

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Beauchamp #153 — Results Plotted By: Trevor

Area (Grid): — Map: — N.T.S.:

Collectors: Trevor Shephard — Date: June 1990

MB medium brown; LB light brown; DB dark brown; MRB medium red brown

A angular; SA sub Angular; SR sub Rounded; R Rounded

Sample Number 90V153S	Sample Location: Elev. meters	Sample Location: meters Station	Notes	Topography: Valley Bottom	Topography: Direction of slope (VD)	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample (cm)	Soil Data: Horizon Development Good	Soil Data: Horizon Development Poor	Soil Data: Parent Drift	Soil Data: Parent Bedrock	Soil Data: Material Colour
001	1470	0+00	silt/frag/org 30/50/20 A		S				✓					B	40		✓		✓	DB
002	1470	0+50	silt/frag/org 40/50/10 A		S				✓					A	20		✓		✓	DB
003	1470	1+00	silt/frag/org 30/50/20 A		S				✓					A	30		✓		✓	DB
004	1480	1+50	silt/frag/org 30/50/20 A		S				✓					B	30		✓		✓	DB
005	1510	2+00	silt/frag/org 60/30/10 A		S				✓					B	40	✓			✓	MB
006	1515	2+50	silt/frag/org 30/50/20 A		250				✓					A	30		✓		✓	DB
007	1500	3+00	silt/frag/org 40/50/10 A		250				✓					A	40		✓		✓	DB
008	1500	3+50	silt/sand/frag 60/30/20 A		250				✓					B	30	✓			✓	MRB
009	1480	4+00	silt/frag/org 40/50/10 A		300				✓					D	30		✓		✓	LRB
010	1490	4+50	silt/frag/org 40/40/20 A		300							✓		B	30		✓		✓	DB
011	1495	5+00	silt/frag/org 40/40/20 A		300							✓		B	30		✓		✓	DB
012	1495	5+50	silt/sand/frag 50/30/20 A		300							✓		B	40	✓			✓	LB
013	1500	6+00	silt/frags 50/50 A		350							✓		A	5		✓		✓	LB
014	1510	6+50	silt/sand/frags 30/30/40 A		350							✓		B	40	✓			✓	LB
015	1515	7+00	silt/sand/frag 60/10/30 A		300							✓		B	60	✓			✓	LRB
016	1515	7+50	silt/frag/org 10/45/45 A		300							✓		A	60		✓		✓	DB
017	1520	8+00	silt/frag/org 50/30/20 A		300							✓		B	40		✓		✓	MB
018	1525	8+50	silt/frag/org 15/70/10 A		330							✓		A	30		✓		✓	DB
019	1520	9+00	silt/sand/frag/org 50/30/20/10 A		330							✓		B	30	✓			✓	LB
020		9+50	N.S. A									✓							✓	
021	1500	10+30	silt/frag/clay 60/20/20 A			talus	fine					✓							✓	LB
022	1500	11+00	N.S. A									✓							✓	
023	1520	11+50	N.S. A									✓							✓	
	1530	12+00	see 90X1535-002 A									✓							✓	
024	1520	12+50	silt/frag/org 40/50/10 A		270							✓		B	30		✓		✓	MRB
025	1510	13+00	silt/frag/org 50/30/20 A		270							✓		B	30		✓		✓	DB
026	1500	13+50	silt/frag/org 50/30/20 A		240							✓		B	30	✓			✓	LRB
027	1500	14+00	silt/frag/sand 60/30/10 A		290							✓		D	30	✓			✓	MRB
028	1510	14+50	silt/frag/org 60/30/10 A		240							✓		B	30		✓		✓	

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: # 153 Beauchamp — Results Plotted By: T.S.

Area (Grid): — Map: — N.T.S.: —

Collectors: Trevor S. / Keith Lwic — Date August 1990

Sample Number 90W1535	Sample Location: ELEV METERS	Sample Location: Station	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample	Soil Data: Horizon Development Good	Soil Data: Horizon Development Poor	Soil Data: Parent Material Drift	Soil Data: Parent Material Bedrock	Soil Data: Colour
216	1170	14+00	SILT 60% CLAY 20% ORGANIC 20%					✓						B	25		✓			DB
217	1170	14+50	SILT 70% SAND 10% ORGANIC 20%					✓						B	25	✓				MRB
218	1170	15+00	SILT 40% SAND 40% FRAGS 20%					✓						B	30	✓				MRB
219	1170	15+50	SILT 50% SAND 30% ROCK 20%					✓						B	30	✓				MRB
220	1170	16+00	SILT 50% SAND 30% S.R. FRAGS 20%					✓						B	30	✓				MRB
221	1170	16+50	SILT 60% SAND 20% SR FRAGS 20%					✓						B	30	✓				MRB
222	1165	17+00	SILT 50% CLAY 20% SA FRAGS 30%					✓						B	25	✓				LB
223	1170	17+50	SILT 70% SAND 20% FRAG 10%					✓						B	30	✓				LRB
224	1170	18+00	SILT 60% SAND 20% FRAG 20%					✓						B	25	✓				MRB
225	1170	18+50	SILT 60% SAND 30% FRAG 10%					✓						B	25	✓				MRB
226	1170	19+00	SILT 50% SAND 30% FRAG 20%					✓						B	20	✓				MRB
227	1170	19+50	SILT 50% SAND 20% CLAY 10% FRAG 20% NEXT TO CREEK					✓						B	25	✓				MRB
228	1065	0+00	CLAY 20% SAND 40% SILT 30% ROCKS 10%					✓						B	30	✓				GRAY
229	1070	0+50	SILT 60% SAND 20% FRAG 20%					✓						B	20	✓				MRB
230	1180	1+00	SILT 70% SAND 10% FRAG 20%				✓	✓						B	20	✓				MRB
231	1080	1+50	SILT 50% CLAY 30% ORGANIC 20%					✓					✓	B	25		✓			DBLACK
232	1080	2+00	SILT 40% CLAY 30% SAND 20% FRAGS 10%					✓						B	15	✓				DBLACK
233	1080	2+50	SILT 50% ORGANIC 30% CLAY 20%						✓				✓	B	30		✓			DBLACK
234	1075	3+00	SILT 50% CLAY 40% FRAG 10%				✓						✓	B	25	✓				GRAY
235	1075	3+50	SILT 60% CLAY 30% FRAG 10% SA FRAG					✓						B	25	✓				LB
236	1075	4+00	SILT 50% CLAY 50%				✓	✓						B	25	✓				LB
237	1090	4+50	SILT 70% SAND 30%					✓						B	30	✓				MRB
238	1090	5+00	SILT 50% SAND 10% CLAY 40%					✓						B	40	✓				LRB
239	1090	5+50	SILT 50% ORGANIC 30% CLAY 20%				✓	✓						A	40	✓				LRB
240	1090	6+00	SILT 50% CLAY 50%				✓	✓						B	40	✓				GRAY
241	1095	6+50	SILT 50% CLAY 40% ORGANIC 10%				✓	✓						B	30	✓				GRAY
242	1100	7+00	SILT 40% SAND 30% FRAGS-SA-A 30%				✓	✓						B	10	✓				MRB
243	1100	7+50	SILT 30% SAND 50% FRAG 20%					✓						B	30	✓				MRB

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: # 153 Beaverlamp. Results Plotted By: T.S.

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

Collectors: Trevor Shepherd / Keith Lovin Date August 1990

Sample Number 90V1535	Sample Location: Elev ~~Line~~	Sample Location: Station	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample	Soil Data: Horizon Development: Good	Soil Data: Horizon Development: Poor	Soil Data: Parent Material: Drift	Soil Data: Parent Material: Bedrock	Soil Data: Colour
244	1100	8+00	SILT 40% SAND 40% ANG FRAGS 20%						✓					B	25	✓				GRAY
245	1100	8+50	SILT 50% SAND 40% ANG FRAGS 10%						✓					B	20	✓				MRB
246	1090	9+00	SILT 30% SAND 20% CLAY 30% FRAGS 20%						✓					B	15	✓				GRAY
247	1090	9+50	ORG 30% CLAY 50% SAND 10% FRAGS 10%					✓						B	25	✓				GRAY
248	1090	0+00	SILT 30% SAND 30% CLAY 20% ORG 20%					✓						B	30	✓				GRAY
249	1090	10+50	SILT 40% CLAY 50% ORG 10%					✓						B	30	✓				MR
250	1090	11+00	CLAY 40% ORG 30% FRAG 10% SILT 10% SAND 10%					✓						B	30	✓				GRAY
251	1090	11+50	SILT 90% ORG 10%				✓	✓						B	20	✓				MRB

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: GJ 153 — Results Plotted By: _____

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

Collectors: _____ — Date 26/6

Sample Number	Sample Location [illegible]	Sample Location ELEV. [illegible]	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample	Soil Data: Horizon: Good	Soil Data: Horizon: Poor	Soil Data: Development: Drift	Soil Data: Development: Bedrock	Soil Data: Parent Material: Colour
90Y 153	S030	5350	silt/sand/ang frag				✓					✓		B	30	✓		✓		LB
	031						✓					✓		B	30		✓	✓		LB
	032						✓					✓		B	40		✓	✓		LB
	33						✓					✓		B	40	✓		✓		DB
	34						✓					✓		B	30	✓		✓		LB
	35						✓					✓		B	40	✓		✓		DB
	36						✓					✓		B	40	✓		✓		LB
	37						✓					✓		B	30	✓		✓		RB
	38						✓					✓		B	40	✓		✓		LB
	39						✓					✓		B	40	✓		✓		RB
	40						✓					✓		B	30	✓		✓		LB
	41	↓	↓				✓					✓		B	30	✓		✓		RB
	42	1070	silt/sand/ang frag		SE			✓						B	30	✓		✓		LB
	43	1060	↓		SE			✓						A	20	✓			✓	DB
	44	1070			SE			✓						B	10	✓		✓		LB
	45	1060	silt/sand org		SE			✓						A	20		✓		✓	LB
	46	1070	silt/sand/ang frag		SE			✓						B	20	✓		✓		RB
	47	1070	↓		SE			✓						B	10	✓		✓		RB
	48	1070			SE			✓						B	36		✓	✓		LB
	49	1070			SE			✓						B	20	✓		✓		RB
	50	1060			SE			✓						B	30	✓		✓		RB
	51	1060			SE			✓						B	30	✓		✓		RB
	52	1060			SE			✓						B	30	✓		✓		DRB
	53	1060	silt/sand/clay		SE			✓						B	30	✓		✓		LB
	54	1055	silt/sand/ang frag		SE			✓						B	30	✓		✓		DB
	55	1060	silt/sand/clay		SE			✓						B	30	✓		✓		RB
	56	1055	↓		SE			✓						B	20	✓		✓		RB
	57	1055			SE			✓						B	30	✓		✓		RB
	58	1050	↓		SE			✓						B	30	✓		✓		RB

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: GJ

Area (Grid): BEAUCHAMP

Collectors: CK

Results Plotted By: _____

Map: _____ N.T.S.: _____

Date 26/6

Sample Number	Sample Location: Line	Sample Location: ~~Station~~ ELEVATION	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample	Soil Data: Horizon Development Good	Soil Data: Horizon Development Poor	Soil Data: Parent Material Drift	Soil Data: Parent Material Bedrock	Soil Data: Colour
90Y153	5001	5350	silt, ang frag, sand				✓					✓		B	30	✓		✓		DB
	2		silt				✓					✓		B	40	✓		✓		DB
	3		silt				✓					✓		B	40	✓		✓		LB
	4		silt				✓					✓		B	30	✓		✓		R/B
	5		silt				✓					✓		B	30	✓		✓		RB
	6		silt				✓					✓		B	30	✓		✓		RB
	7		silt				✓					✓		B	40	✓		✓		LB
	8		silt				✓					✓		B	30	✓		✓		LB
	9		silt				✓					✓		B	40	✓		✓		DB
4+50S	010		silt				✓					✓		B	30	✓		✓		RB
	11		silt				✓					✓		B	30	✓		✓		LB
	12		silt				✓					✓		B	30	✓		✓		DB
	13		silt				✓					✓		B	30	✓		✓		DB
	14		silt				✓					✓		B	50	✓		✓		DB
	15		silt				✓					✓		B	50	✓		✓		DB
	16		silt				✓					✓		B	40	✓		✓		LB
	17		silt				✓					✓		B	40	✓		✓		RB
	18		silt				✓					✓		B	30	✓		✓		LB
	19		silt				✓					✓		A	40	✓		✓		LB
9+50S	020		silt				✓					✓		B	40	✓		✓		RB
	21		silt				✓					✓		B	30	✓		✓		LB
	22		silt				✓					✓		B	35	✓		✓		DB
	23		silt				✓					✓		B	40	✓		✓		LB
	24		silt				✓					✓		B	50	✓		✓		DB
	25	↓	silt				✓					✓		B	30	✓		✓		RB
	26	5300	silt: clay sand		SE							✓		B	30	✓		✓		LB
	27	5320	silt				✓					✓		B	20	✓		✓		DB
	28	5350	silt				✓					✓		A	40		✓	✓		DB
	29	5350	silt				✓					✓		B	40	✓		✓		DB

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Beauchamp # 153 — Results Plotted By: T.S.

Area (Grid): — Map: — N.T.S.:

Collectors: Keith Lovie / Trevor Shepland — Date: August 1990.

A angular
SA sub angular
SR sub rounded
R rounded

Sample Number 90V1535.	Sample Location: Elev. meters.	Sample Location: meters. Station	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample (cm)	Soil Data: Horizon Development: Good	Soil Data: Horizon Development: Poor	Soil Data: Parent Material: Drift	Soil Data: Parent Material: Bedrock	Soil Data: Colour
GJ PROPERTY																				
187	3850	0+00	SILT 60% SAND 20% CLAY 20%				✓	✓						B	25	✓				LB
188	3850	0+50	SILT 50% CLAY 20% FRAGS 30%					✓						B	25	✓				LB
189	3850	1+00	SILT 20% CLAY 60% FRAGS 20%					✓						B	20	✓				LB
190	3850	1+50	ROUNDED TO SR FRAGS 30% SILT SAND 70% FRAGS 30%								✓			B	35	✓				MB
191	3850	2+00	SILT 20% CLAY 60% FRAG 20%					✓						B	30	✓			GRAVEL	MB
192	3850	2+50	SILT 50% CLAY 30% FRAGS 20%					✓						B	20	✓				LB
193	3850	3+00	SILT 40% CLAY 40% FRAGS 20%					✓						B	15	✓				DGRAY
194	3850	3+50	SILT 30% CLAY 50% FRAG 20%					✓						B	55	✓				GRAY
195	3850	4+00	SILT 30% SAND 30% CLAY 20% FRAG 20%					✓						B	30	✓				GRAY
196	3850	4+50	SILT 60% SAND 20% FRAG 20%					✓						B	25	✓				LB
197	1170	5+00	CLAY 50% CLAY 20% FRAG 30%					✓						B	20	✓				GRAY
198	1170	5+50	SAND 60% FRAG 20% SILT 20%					✓						B	30	✓				LB
199		skipped	sample																	
200	1170	6+00	SR FRAGS 70% SAND 20% CLAY 10%					✓						B	30	✓				MRB
201	1170	6+50	SILT 30% SAND 30% CLAY 20% FRAG 20%					✓						B	20	✓				GRAY
202	1170	7+00	SILT 50% SAND 30% CLAY 10% FRAG 10%					✓						B	20	✓				MRB
203	1170	7+50	SILT 60% SAND 30% ORGANIC 20%					✓						B	30	✓				MRB
204	1170	8+00	SILT 70% ORGANIC 20% FRAG 10%					✓						B	20	✓				MRB
205	1170	8+50	SILT 60% SAND 10% CLAY 30% FRAG 10%					✓						B	30	✓				MB
206	1170	9+00	SILT 60% ORGANIC 30% FRAG 10%					✓						B	35	✓				MB
207	1170	9+50	SILT 80% ORGANIC 10% FRAG 10%					✓						B	30	✓				MRB
208	1170	10+00	SILT 60% CLAY 30% ROCKS 10%					✓						B	30	✓				DBLACK
209	1170	10+50	SILT 70% SAND 10% FRAG 20%					✓						B	30	✓				DBLACK
210	1170	11+00	SILT 60% CLAY 20% ORGANIC 20%					✓						B	30	✓				DBLACK
211	1170	11+50	SILT 50% ORGANIC 50%										✓	B	30		✓			DBLACK
212	1170	12+00	SILT 50% ORGANIC 50%					✓						B	25	✓				DBLACK
213	1170	12+50	SILT 50% ORGANIC 40% CLAY 10%					✓						B	30	✓				DBLACK
214	1170	13+00	SILT 50% CLAY 50%					✓						B	30	✓				BLACK-GRAY
215	1170	13+50	SILT 70% SAND 10% FRAG 20%											B	35	✓				MRB

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: Beauchamp Option — Results Plotted By: B. McIntyre.

Area (Grid): AXE 38 — Map: KINISKAN LK N.T.S.: 104 G/9E ½

Collectors: Brian McIntyre. — Date June 1990.

Sample Number 90x/535.	Sample Location: Line	Sample Location: Station	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample	Soil Data: Horizon Development Good	Soil Data: Horizon Development Poor	Soil Data: Parent Material Drift	Soil Data: Parent Material Bedrock	Soil Data: Colour
001	5210'		NE cor AXE 38 Talus Fines 15M E of contact between Diorite stock with altered seds		~50°				Talus					A	10cm	✓			✓	RB.
002.	4940'		South 200 m of south fork of creek flowing SE; west side AXE 38 mid claim. Very gassaceous soils coming from under snow pack.		220°				Talus					A	10cm	✓			✓	MRB

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: BEAUCHAMP — Results Plotted By: CK

Area (Grid): 153 — Map: _____ N.T.S.: _____

Collectors: CK — Date 5/7/90

Sample Number	Sample Location: Line	Sample Location: ELEV	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample	Soil Data: Horizon: Good	Soil Data: Horizon: Development — Poor	Soil Data: Parent Material: Drift	Soil Data: Parent Material: Bedrock	Soil Data: Colour
90Y 153	S170	1425m	silt / sand		NW				✓					B	30	✓		✓		LB
	171	1415	silt / org / sand		↓				✓					B	20		✓	✓		DB
	172	1415	↓						✓					A	30	✓		✓		DB
	173	1410	silt / sand						✓					B	30	✓		✓		DRB
	174	1415	silt / sand / org						✓					B	30	✓		✓		RB
	175	1410	silt / org frag / sand						✓					A	40		✓	✓		BL
	176	1415	silt / clay / sand						✓					B	30	✓		✓		LB
	177	1420	↓						✓					B	30	✓		✓		RB
	178	↓							✓					B	30	✓		✓		RB
	179								✓					B	40	✓		✓		RB
	180		↓						✓					B	30	✓		✓		LB
	181		silt / sd. frags / sand						✓					B	20	✓		✓		RB
	182		silt / sand / org						✓					B	30	✓		✓		RB
	183	1410	↓						✓					B	30	✓		✓		DB
	184	1410							✓					B	30	✓		✓		RB
	185	1410							✓					B	20	✓		✓		RB
	186	1420	silt / clay / org.						✓					B	30	✓		✓		LB
	187	1420	silt / sand / org.						✓					B	30	✓		✓		LB
	188	1430	silt / org / sand						✓					B	30	✓		✓		LB
	189	1440	↓						✓					A	40		✓	✓		BL
	190	↓							✓					A	30	✓		✓		BL
	191								✓					B	30	✓		✓		LB
	192								✓					B	30	✓		✓		BL
	193								✓					A	30	✓		✓		BL
	194								✓					A	20	✓		✓		BL
	195	↓	↓		↓				✓					B	30	✓		✓		RB

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: GJ

Area (Grid): Beauchamp 152

Collectors: BK

Results Plotted By: CK

Map: _____ N.T.S.: _____

Date 2/6/90

Sample Number	Sample Location: Line	Sample Location: ELEV ~~Station~~	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample	Soil Data: Horizon: Good	Soil Data: Horizon: Poor	Soil Data: Development	Soil Data: Parent Material: Drift	Soil Data: Parent Material: Bedrock	Soil Data: Colour
90X153 S	143	1400	silt / clay sand				✓		✓					B	30	✓			✓		LRB
	144						✓		✓					B	20		✓		✓		GRY
	145						✓		✓					A	30	✓			✓		BL
	146						✓		✓					B	30	✓			✓		LRB
	147		silt / clay / organics				✓		✓					B	40	✓			✓		LB
	148		silt / clay / sand				✓		✓					A	30	✓			✓		GRY
	149		silt / sand / ang frag				✓		✓					B	30	✓			✓		RB
	150	1395	silt / clay / cobble				✓		✓					B	30	✓			✓		RB
	151	1410					✓		✓					B	30	✓			✓		RB
	152	1400					✓		✓					B	30	✓			✓		RB
	153	1400					✓		✓					B	30	✓			✓		DB
	154	1410	silt / clay / organics				✓		✓					B	30	✓			✓		RB
	155	1400	silt / sand / organics				✓		✓					B	30	✓			✓		LRB
	156	1400					✓		✓					B	30	✓			✓		RB
	157	1400					✓		✓					B	30	✓			✓		LB
	158	1405	silt / clay / sand				✓		✓					B	20	✓			✓		RB
	159	1400					✓		✓					B	30	✓			✓		LB
	160	1400					✓		✓					B	30	✓			✓		RB
	161	1405					✓		✓					A	20		✓		✓		LB
	162	1400					✓		✓					B	30	✓			✓		LB
	163	1400					✓		✓					B	30	✓			✓		RB
	164	1410					✓		✓					B	30	✓			✓		RB
	165	1410					✓		✓					B	20	✓			✓		LB
	166	1410	silt / sand / ang frag				✓		✓					B	30	✓			✓		LB
	167	1410	silt / clay / organics				✓		✓					B	20	✓			✓		LB
	168	1410					✓		✓					B	30	✓			✓		RB
	169	1420					✓		✓					B	20	✓			✓		RB

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: GJ

Area (Grid): Beauchamp 153 1190 CONTOUR

Collectors: EK

Results Plotted By: _____

Map: _____ N.T.S.: _____

Date _____

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		Parent		Colour
																Good	Poor	Drift	Bedrock	
114	0+50N	0+75	silt / sand / clay		NE				✓					A	30	✓		✓		LB
115		0+50	↓		NE				✓					B	40	✓		✓		RB
116		0+25	↓		NE				✓					B	30	✓		✓		RB
YOY 153	S 117	1160m	silt / sand / org		SE			✓						B	30	✓		✓		RB
	118	1160	↓		SE			✓						B	30	✓		✓		RB
	119	1160	↓		SE			✓						B	20	✓		✓		RB
	120	1160	↓		SE			✓						B	20	✓		✓		RB
	121	1170	↓		SE			✓						B	30	✓		✓		RB
	122	1170	↓		SE			✓						B	30	✓		✓		RB
	123	1170	↓		SE			✓						B	40	✓		✓		LRB
	124	1170	↓		SE			✓						B	30	✓		✓		RB
	125	1150	silt / sand / angfrag		SE			✓						B	30	✓		✓		LRB
	126	1170	silt / sand / org		SE			✓						B	30	✓		✓		LRB
	127	1170	↓		SE			✓						B	30	✓		✓		RB
	128	1190	↓		SE			✓						B	30	✓		✓		RB
	129	1190	↓		SE			✓						B	30	✓		✓		RB
	130	1190	↓		SE			✓						B	30	✓		✓		RB
	131	1190	↓		SE			✓						B	30	✓		✓		RB
	132	1190	↓		SE			✓						B	32	✓		✓		RB
	133	1190	silt / sand / org		SE			✓						A	40	✓		✓		LRB
	134		↓		SE			✓						B	30	✓		✓		RB
	135		↓		SE			✓						B	30	✓		✓		RB
	136		silt / sand / frags		SE			✓						B	30	✓		✓		RB
	137		↓		SE			✓						B	30	✓		✓		LB
	138		↓		SE			✓						B	30	✓		✓		RB
	139		↓		SE			✓						A	40		✓		✓	BL
	140		silt / org / sand		SE			✓						A	40		✓		✓	BL
	141		↓		SE			✓						A	30		✓		✓	BL
	142		↓		SE			✓						B	30	✓		✓		DB

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: GJ

Area (Grid): Beauchamp Bond Grid 153

Collectors: CK / JM

Results Plotted By: _____

Map: _____ N.T.S.: _____

Date _____

Sample Number	Sample Location: Line	Sample Location: Station	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample	Soil Data: Horizon: Good	Soil Data: Horizon: Poor	Soil Data: Development	Soil Data: Parent Material: Drift	Soil Data: Parent Material: Bedrock	Soil Data: Colour
YS085	0+00	1+00	silt / sand / clay	1	NE				✓					B	30	✓			✓		DB
86		1+25			NE				✓					A	40	✓			✓		DB
87		1+50			NE				✓					B	30	✓			✓		RB
88		1+75			NE				✓					B	40		✓		✓		GRY
89	0+25	1+75E			NE				✓					A	50	✓			✓		GRY
90		1+50			NE				✓					B	40	✓			✓		LB
91		1+25	silt / sand org		NE				✓					B	40	✓			✓		RB
92		1+00			NE				✓					B	40	✓			✓		RB
93		0+75			NE				✓					B	40	✓			✓		LB
94		0+50			NE				✓					A	40	✓			✓		DB
95		0+25			NE				✓					B	40	✓			✓		RB
96		0+00			NE				✓					B	30	✓			✓		RB
97		0+25W			NE				✓					B	30	✓					LB
98		0+50	silt / sand / org. frag		NE				✓					A	20		✓			✓	LB
99		0+75	silt / sand / clay		NE				✓					B	50	✓			✓		GRY
100	0+50	0+75W	silt / sand / clay		NE				✓					B	40	✓			✓		RB
101		0+50	silt / clay / sand		NE				✓					B	40		✓		✓		LB
102		0+25			NE				✓					B	30	✓			✓		RB
103		0+00			NE				✓					B	40	✓			✓		LB
104		0+25E			NE				✓					B	50	✓			✓		DB
105		0+50			NE				✓					B	40		✓		✓		DB
106		0+75	silt / sand		NE				✓					B	40	✓			✓		DB
107		1+00	silt / sand / org		NE				✓					B	40	✓			✓		LB
108		1+25			NE				✓					A	40	✓			✓		RB
109		1+50			NE				✓					B	30	✓			✓		RB
110		1+75			NE				✓					B	30	✓			✓		RB
111	0+25N	0+25			NE				✓					B	40	✓			✓		LB
112		0+50			NE				✓					B	30	✓			✓		LB
113		0+75			NE				✓					B	40	✓			✓		LB

KEEWATIN ENGINEERING INC.

SOIL SAMPLES

Project: GJ — Results Plotted By: CK

Area (Grid): Beauchamp 153 — Map: _____ N.T.S.: _____

Collectors: CK 1070 CONTOUR — Date 27/6

Sample Number	Sample Location [redacted]	Sample Location ELEV. [redacted]	Notes	Topography: Valley Bottom	Topography: Direction of slope	Topography: Hill Top	Topography: Level Ground	Vegetation: Heavily Wooded	Vegetation: Sparsely Wooded	Vegetation: Burnt	Vegetation: Logged	Vegetation: Grassland	Vegetation: Swampy	Soil Data: Horizon Sampled	Soil Data: Depth to Horizon Sample	Soil Data: Horizon: Good	Soil Data: Horizon: Poor	Soil Data: Development	Soil Data: Parent Material: Drift	Soil Data: Parent Material: Bedrock	Soil Data: Colour
90Y153	5059	1045	silt sand		SE			✓						B	20	✓			✓		LRB
	60	1050	↓		SE			✓						B	30	✓			✓		LRB
	61	1040			SE			✓						B	30	✓			✓		LRB
	62	1040	silt / org / sand		SE			✓						A	40			✓		✓	BI
	63	1040	silt / sand / org frag		SE			✓						B	30	✓			✓		RB
	64	1035	↓		SE			✓						B	20	✓			✓		RB
	65	1035			SE			✓						B	30			✓	✓		LB
	66	1030	silt / sand / clay		SE			✓						B	40			✓	✓		LB
	67	1035	↓		SE			✓						A	30			✓	✓		BI
	68	1030			SE			✓						B	30	✓			✓		RB
	69	1030	silt / organic / sand		SE			✓						A	40			✓	✓		BI
	70	1030	↓				✓	✓					✓	A	40			✓	✓		BI
	71	1030	silt / sand / frags				✓	✓						B	10	✓			✓		LB
	72	1030	↓				✓	✓					✓	A	30			✓	✓		BI
	73	1030					✓	✓					✓	A	20			✓	✓		BI
	74	1030	organic silt sand				✓						✓	A	40			✓	✓		BI
	75	1025	silt sand				✓	✓						B	30	✓			✓		LB
	76	1020					✓	✓						A	30	✓			✓		DB
	77	1020					✓	✓						B	30	✓			✓		ORB
	78	1020					✓	✓						B	30	✓			✓		RB
	79	1020					✓	✓						A	30	✓			✓		BI
	80	1020	↓											B	30	✓			✓		LRB
	GRID ON 007 BOND SHOWING																				
81	0+00	0+00E	silt / sand / clay				✓		✓					B	30	✓			✓		RB
82		0+25			NE				✓					B	40	✓			✓		DB
83		0+50			NE				✓					B	30	✓			✓		LB
84	+	0+75	↓		NE				✓					B	30	✓			✓		DB

APPENDIX VI

Silt Geochemistry Results

COMP: KEEWATIN ENGRG.
PROJ: 153
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0S-0134-LJ1+2
DATE: 90/07/16
* SILT * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90U 153L 001	2	1.0	62	26	87	1	1	1	210
90U 153L 002	1	.5	56	40	128	8	1	1	230
90X 153L 001	2	.8	32	25	73	6	1	1	110
90X 153L 002	1	.4	45	26	84	1	1	1	150
90X 153L 003	2	.4	38	26	86	4	1	1	145
90X 153L 004	1	.6	35	28	83	1	1	1	110
90X 153L 005	3	.7	42	31	99	8	1	1	115
D1-01									
D1-02									

APPENDIX VII

Silt Sample Descriptions

KEEWATIN ENGINEERING INC.

STREAM SEDIMENTS

Project: Beauchamp Option 153 — Results Plotted By: _____

Area (Grid): AXE 26 — Map: _____ N.T.S.: _____

Collectors: Brian McIntyre — Date: _____

Sample Number 90X153L	NOTES	SEDIMENT DATA					STREAM DATA					SPRING	DRY GULLY				
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity						
001	4900' Minor intermittant stream flows 320° through mixed till and subcrop. Above is augite porphyry stock.		5	85		10	till		20cm	5cm	m						
002	4940' Minor, intermittant stream flows 50° through till on east side of augite porphyry stock.		10	80		10	till + sub crop		30cm	5cm	m						
003	4940' Upper reaches of north fork of stream draining north 1/2 Axe 26 - flows 80°	25	10	40		25	till + sc		1M	10cm	m						
004	Small intermittant feeder to south fork as above.								20cm	5cm	m						
005	4860' Upper reaches of south fork (see 003) drains mainly till, subcrop conglom ~ basalts.	25	10	60		5	till		2M	10cm	m						

KEEWATIN ENGINEERING INC.

STREAM SEDIMENTS

Project: 153 - ASCOT

Area (Grid): BEAUCHAMPS.

Collectors: D. MEHNER

Results Plotted By:

Map: BEAUCHAMPS. N.T.S.:

Date:

Sample Number	NOTES	SEDIMENT DATA					STREAM DATA					SPRING	DRY GULLY				
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity						
90-DM-153-01	New B. line @ 1355E / 3200' elev.		60	40				✓	1M	10cm							
90-DM-153-02	New B. line @ 1290E / 3182' elev.		60	40				✓	.5M	10cm							

KEEWATIN ENGINEERING INC.

STREAM SEDIMENTS

Project: Beauchamp Option — Results Plotted By: Michael Skeach

Area (Grid): #153 — Map: _____ N.T.S.: _____

Collectors: Michael Skeach — Date: July 7/90

Sample Number	NOTES	SEDIMENT DATA					STREAM DATA					SPRING	DRY GULLY				
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity						
90UI53L001	on map, Banks are clay + glacial till Poor silt development. (small sprs spruce)			poor	✓		fair		1ft	2in	slip						
90UI53L002	same as 001 clay banks poor silt, heavy spruce			poor	✓		fair		8in	23in	slip						

APPENDIX VIII

Rock Geochemistry Results

MIN-EN LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OS-0111-RA1

Company: KEEWATIN ENGRG.
Project: GJ 153
Attn: R.NICHOLS/M.BOBYN

Date: JUL-09-90
Copy 1. KEEWATIN ENGRG., VANCOUVER, B.C.
2. KEEWATIN ENGRG., C/O JAYCOX

He hereby certify the following Assay of samples submitted JUL-03-90 by M.BOBYN.

Sample Number	*AU g/tonne	*AU oz/ton
90U 153R 006 SENTRA CR.	1.20	.035
90D 153R 001	1.37	.040
90D 153R 003	9.65	.281
90D 153R 004	1.11	.032

*AU - 1 ASSAY TON.

Certified by _____

MIN-EN LABORATORIES

COMP: KEEWATIN ENGRG.
PROJ: GJ 153
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 90-0111-RJ1+2
DATE: 90/07/09
* ROCK * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	AS PPM	CU PPM	MO PPM	PB PPM	SB PPM	ZN PPM	HG PPB
90U 153R 001	172	2.8	1	90	1	34	1	55	95
90U 153R 002	245	3.5	11485	123	1	302	162	649	245
90U 153R 003	725	2.3	32	359	4	26	4	42	55
90U 153R 004	178	12.7	547	1072	1	327	25	1675	4625
90U 153R 005	159	3.4	292	129	2	60	6	47	145
90U 153R 006	1000	17.8	831	1259	4	4185	29	3856	1620
90U 153R 007	551	39.7	667	1370	1	2764	229	3132	1935
90U 153R 008	980	49.7	1444	2522	8	10134	67	11992	9625
90U 153R 009	336	16.6	732	1275	2	2538	25	3573	1835
90U 153R 010	46	5.6	387	165	3	822	12	940	870
90U 153R 011	12	4.2	37	1647	8	64	7	817	2000
90Y 153R 001	2	2.4	1	125	2	37	1	75	155
90Y 153R 002	1	.4	23	11	6	27	1	49	70
90Y 153R 003	2	.4	10	10	4	22	1	49	75
90F 153R 001	18	1.9	757	47	1	52	2	183	115
90F 153R 002	117	27.8	439	1091	1	291	643	235	615
90F 153R 003	515	99.1	1629	4253	1	705	2309	1805	4375
90F 153R 004	61	3.2	140	148	3	135	28	134	215
90F 153R 005	38	2.3	19604	28	1	38	130	42	175
90F 153R 006	388	7.2	833	341	2	181	9	1551	670
90F 153R 007	157	8.8	634	1336	1	38	81	84	220
90F 153R 008	99	10.0	290	681	2	803	17	3879	1485
90F 153R 009	715	14.0	823	1273	2	3039	24	4024	1445
90F 153R 010	9	2.0	67	36	1	38	2	61	95
90F 153R 011	49	3.1	1	97	1	24	1	57	100
90F 153R 012	1	1.4	8	76	1	23	4	90	120
90F 153R 013	467	5.2	488	154	1	148	22	1082	410
90F 153R 014	420	5.1	214	158	1	216	21	768	285
90F 153R 015	1	1.7	29	126	1	28	1	77	70
90F 153R 016	2	1.6	23	72	1	27	1	71	45
90D 153R 001	1380	23.7	155	296	1	238	9	88	160
90D 153R 002	626	.1	284	353	2	16	1	14	15
90D 153R 003	9000	6.4	151	1459	1	7	4	1	55
90D 153R 004	1050	.9	30	91	3	17	1	1	50
90D 153R 005	212	1.9	4	20	1	15	1	28	55
90D 153R 006	6	.3	7	4	3	27	1	63	240
90D 153R 007	1	3.0	10	298	1	19	1	1	60
90D 153R 008	4	2.3	24	74	1	33	2	34	110
90D 153R 009	3	.9	17	11	2	12	1	2	35
90V 153R 001	1	2.4	16	131	3	21	1	16	35
90V 153R 002	92	2.6	22	439	1	22	1	2	25
90V 153R 003	3	3.5	1	648	1	10	1	5	10
90X 153R 001	1	.1	1	84	1	30	1	335	5
90X 153R 002	70	5.3	24	1118	1	271	1	263	65
90X 153R 003	636	2.1	120	768	1	111	3	77	15
90X 153R 004	176	1.2	10	247	1	22	1	3	35
90X 153R 005	7	3.7	1	1592	1	11	1	29	40
90X 153R 006	29	4.4	1	260	51	10	1	1	45
90X 153R 007	2	2.7	6	766	1	24	1	1	65
90X 153R 008	1	.7	65	9	9	56	1	84	105
90X 153R 009	1	.6	178	9	73	94	3	52	270
90X 153R 010	2	2.3	1	63	1	17	1	19	5
90X 153R 011	1	1.8	19	45	1	22	1	2	15
90X 153R 012	1	1.9	1	60	1	12	1	18	110
90X 153R 013	3	2.4	34	25	9	22	3	3	315
	5	4	6	1		2		3	

COMP: KEEWATIN ENGRG.
PROJ: 153
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0S-0132-RJ1
DATE: 90/07/16
* ROCK * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
900 153C 001	244	2.4	495	34	44	212	3	1	210
900 153C 002	8	2.0	520	31	39	14	2	3	95
900 153C 003	12	1.7	1006	34	27	10	3	2	55
900 153C 004	4	1.8	913	35	24	1	6	3	35
900 153C 005	2	1.8	445	33	35	1	1	1	105
900 153C 006	9	1.8	487	26	29	1	2	2	70
900 153C 007	6	2.0	128	31	44	1	1	1	60
900 153C 008	1	2.5	2237	30	18	1	6	1	205
900 153R 010	8	1.6	650	36	254	139	91	1	490
900 153R 011	2	.7	50	36	13	267	13	12	1995
900 153R 012	2	.8	32	44	45	229	6	29	4125
90V 153R 004	13	3.8	485	88	806	137	13	1	310
90X 153R 014	1	1.7	15	51	21	97	8	7	120
90X 153R 015	5	1.1	14	40	37	91	5	4	115
90Y 153R 004	2	2.6	12	22	89	1	1	1	50
90Y 153R 005	3	2.6	11	19	94	1	1	1	130
90Y 153R 006	3	3.5	22	28	88	1	1	1	170
90Y 153R 007	2	3.1	24	31	91	1	1	1	130
90U 153R 012	46	.5	53	215	156	53	1	3	230
90U 153R 013	2	.2	8	54	148	153	7	35	5375

COMP: KEEWATIN ENGINEERING INC.
PROJ: 153
ATTN: R.NICHOLS/M.BOBYN

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: OS-0143-RJ3
DATE: 90/07/19
* ROCK * (ACT:)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90 F 153 R 017 Band Showing	2	5.3	6714	28	34	1	10	1	610

APPENDIX IX

Rock Sample Descriptions

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: BEAUCHAMP OPTION (#153) - AXE CLAIMS
Area (Grid):
Collectors: JASON MILLER

Results Plotted By: JASON MILLER
Map: NTS:
Date: LATE JUNE, 1990 Surface ✓ Underground

SAMPLE NUMBER	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH) GRAB	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
90-0-153C-006	CHIP SAMPLE GRID AT THE			✓				andesitic	see previous page.	
	BOND SHOWING. SEE							augite	487/26/29/1.8/9/1	
	1:300 MAP 4550' EL							porphyry		
90-0-153C-007	Small o/c north of			✓				as above	2x20cm chips from 2 quartz veins. See	
	BOND SHOWING								above for description	
	4560' EL.								128/31/44/2.0/6/1	
90-0-153C-008	large o/c SW of the			✓				as above	2x20cm chips from 2 quartz veins. See	
	BOND SHOWING								above for description.	
	4550' EL								2237/30/18/2.5/1/1	

KEEWATIN ENGINEERING INC.

Project: BEAUCHAMP OPTION (#152) - AXE CLAIMS ROCK SAMPLES
Area (Grid):
Collectors: JASON MILLER
Results Plotted By: JASON MILLER
Map: NTS:
Date: LATE JUNE 1990 Surface ✓ Underground

SAMPLE NUMBER	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH) GRAB	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
90-0-153R-010	NW of CAMP on south bank of north creek. 4900' EL.	650/36/2	✓	54/1.6	/8	/139		bleached & silicified andesite (?)	A small (≤2cm wide) gossanous quartz vein. Pervasive silicification as well. Malachite and azurite staining.	
90-0-153R-011	50m downstream of R-010 or 89 AMR 37 4900' EL.	50/36/	✓	13/.7	/2	/267		as above	Massive pyrite veins (≤2cm wide) ± Cpy. Minor calcite. Hematite coats pyrite cubes (maroon, red). Open at both ends. pinches + swells	
90-0-153R-012	South creek bank of north creek. 4520' EL.	32/44	✓ /45	/.8	/2	/229		as above	A banded vein (≤3cm) consisting of quartz, pyrite, limonite, dark chalcedony, and minor calcite. (~3-4% pyrite).	
90-0-153C-001	CHIP SAMPLE GRID AT THE BOND SHOWING. SEE 1:300 MAP 4550' EL	495/34	✓ /44	/2.4	/244	/212		andesitic augite porphyry	2m x 2m vein chips. Light green quartz vein stockwork with abundant malachite (diss) and trace native Cu (± Au?). Veins ~0.5cm wide (≤1.5cm)	
90-0-153C-002	AS ABOVE 4550' EL	520/31	✓ /39	/2.0	/8	/14		as above	Minor off-setting veins cross-cut obliquely. A dull grey sulphide occurs (arsenic?). Vein density is ~6-10 veins/m². C-001/002/005	
90-0-153C-003	AS ABOVE 4550' EL	1006/	✓ 34/	27/	1.7/	12/	10	as above	have more host rock dilution than C-003/004/006.	
90-0-153C-004	AS ABOVE 4550' EL	913/	✓ 35/	24/	1.8/	4/	1	as above		
90-0-153C-005	AS ABOVE 4550' EL	445/	✓ 33/	35/	1.8/	2/	1	as above		

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: BEAUCHAMP OPTION - AXE CLAIMS (#153) Results Plotted By: JASON MILLER

Area (Grid): Map: NTS:

Collectors: JASON MILLER Date: JUNE 1990 (LATE JUNE) Surface ✓ Underground

SAMPLE NUMBER	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH) GRAB	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
90-0-153R-001	Gossanous zone on north side of anomalous creek. 4430' EL.	495	✓ /34	/44	/2.4	/244	/212	altered andesite	Quartz veinlets with abundant limonite/ hematite and open space texture. No visable sulphides due to boxwork. Vein ≤ 3cm wide.	
90-0-153R-002	20m downstream from R-001 on north side. 2m x 10m gossanous zone. 4410' EL.	520	✓ /31	/39	/2.0	/8/14		altered andesite	Vuggy quartz veins (1-2cm wide) with crustiform and drusy textures in open space. Blebs of pyrite occur with trace Cpy. Abundant lim/hem.	
90-0-153R-003	Between R-001 and R-002 on north side of creek. 4420' EL	1006	✓ /34	/27	/1.7	/12	/10	altered andesite	Very gossanous quartz vein banded with hematite (≤ 5cm). Extends for 20m+. No visable sulphides due to a well developed boxwork. Vuggy.	
90-0-153R-004	South of the BOND SHOWING across the swamp. Near volcanic ridge.	913	✓ /35	/24	/1.8	/4	/1	silicified rhyolite	Small dark chalcedonic veinlets with very fine grained pyrite disseminated within ± other sulphides. Pyrite = ~2% of the total rock.	
90-0-153R-005	on east side of a creek, west of R-004. On the side of a knob. 4730' ELEV	445	✓ /33	/35	/1.8	/2	/1	silicified and chloritized andesite	Banded quartz/calcite veins. Hematite in the selvages, but no visable sulphides.	
90-0-153R-006	east bank of creek mentioned above. Rounded rusty float boulder. 4640' ELEV	487	/26	/24	/1.8	/9	✓ /1	silicified volcanic	Abundant disseminated and veined pyrite. Banded veining in places. From 2 to 7% pyrite.	
90-0-153R-007	Downstream 300m from creek junction near the Bond Showing, 4470' ELEV.	128	✓ /31	/44	/2.0	/6	/1	Mafic volcanic agglomerate	Quartz vein stockwork (similar to Bond Showing), but with only minor malachite. Minor calcite and no visable native Cu.	
90-0-153R-008	240m upstream from the Bond Showing creek junction. 4528' ELEV.	2237	✓ /30	/18	/2.5	/1	/1	mafic volcanic (very altered)	Intense chloride replacement with minor clay alteration. Very gossanous with some boxwork developement. Quartz veinlets. Minor pyrite, Cpy.	
90-0-153R-009	20 m South of R-008		✓					mafic volcanic	Crustiform textured quartz veining with minor brecciation. Very "vuggy" with a boxwork after	
X	4520' ELEV.							(very altered)	calcite. No visable sulphides.	

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: GJ
Area (Grid): Beauchamp Property
Collectors: CK

Results Plotted By: GK
Map: ____ NTS: ____
Date: 30/6 Surface ___ Underground ___

SAMPLE NUMBER	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH) GRAB	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	RESULTS: Cu/Pb/Zn/Ag/Au/As SAMPLE DESCRIPTION	MAP SHEET
90Y	outcrop 200m		✓					RHYOLITE	2% diss py 125/37/75/2.4/2/1	
153 R	NE of BOND								trace PbS	
001	GRID								carbonate altered	
90Y	" "		✓					RHYOLITE	flow banded /11/27/49/.9/1/23	
153 R									tr. py	
002									high carbonate altn	
90Y	" "		✓					RHYOLITE	flow banded /10/22/49/.4/2/10	
153 R									trace py	
003										
	outcrop							DIORITE	chlorite veins	
004	located 100m								tr. malachite	
	NE of 90Y 153 S 10+50		✓						tr. py /12/22/89/2.6/2/1	
									11/19/94/2.6/3/1	
005	" "		✓					DIORITE	chlorite altn	
									tr malachite, py	
									highly silicified	
006	" "		✓					SILTST	1-2% py as fracture fill	
								-ONE	minor chlorite 22/28/88/3.5/3/1	
									silicified [redacted]/91/3.1/2/1	
007	" "		✓					SILTSTONE	5-10% py 24/31	
									tr cp	

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: Beaudoro Option 153 — Results Plotted By: _____

Area (Grid): _____ — Map: _____ NTS: _____

Collectors: _____ — Date: _____ Surface ___ Underground ___

SAMPLE NUMBER	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH) GRAB	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
011	Axe 26 NW cor		✓					Int to Felsic	Altered, purple, siliceous volcanic intrusion(?) or flow	
								Volcanic	at (faulted?) contact w/ chloritized, amygdaloidal (or)	
			45/	22/2	/48	/1	/19		volcanic. Minor fine sulfides & carbonate veining	
012	Axe 26 NW cor		✓					Intermed.	Chlorite amygdules in volcanic flow below	
								volcanic	contact w/ 011. Below this 2m is volcaniclastic	
			60/	12/	18/	1.9/	4/1		agglomerate. No 'visible' sulphides [Geochem.]	
013	Axe 26 NW cor		✓					Carbonate	Representative sample of carbonate zone	
								zone in	in altered augite porphyry(?). Siliceous,	
			25/	22/	3/2.4	/3	/34	augite porph.	chloritized, abundant carbonate, minor sulphides.	
014	Axe A100' 27 N. Bdry		✓					intermed.	carbonate, multiple event(?) veining 4cm in	
	central claim. W side							volcanic	basic to intermed volcanic carries >10% Py on	
	of small creek, Large snow cornice		15/	51/	2/1.7	/1	/97		vein walls + minor dissem Py in wall rock	
015	Axe 27 N. Bdry		✓					as above 014	6cm layed carbonate vein. Some	
	1100' 10m So. of 014								wall rock alteration with 5-10% Py on	
			14/	40/	3/1.1	/1	5/91		walls. Silicification of zone strongest close to veining	
									This site probably same as 1989 rock AM11	

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: Beauchamp Option 153
Area (Grid):
Collectors: Brian McIntyre

Results Plotted By: B. McIntyre
Map: Kinisikan Lk. NTS: 104G/9E 1/2
Date: June 1990 Surface ✓ Underground

SAMPLE NUMBER 90X153R	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH) GRAB	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
001	5050' Axe 38 N. Bdry (47?)	84/	✓ 30/	335/	.1/	1/1		?	Highly altered – origins uncertain but possibly andesite. Anhedral PY to 10MM in carb vns. in small shear striking 210°/vertical. Silicified/Sericite	
002	5060' Axe 38 N. Bdry	1118/	✓ 2.71/	263/	5.3/	70/	24	see 001	Fine anhedral PY as smears + dissem in altered wall rock. 10cm qtz/carbonate vein boxwork structures, fluid movement evident	
003	5070' Axe 38 N. Bdry shear section 15M wide x 40M. Banding or remnant bedding	768/	✓ 171/	77/	2.1/	636/	120	highly altered seds. ??	PY veinlets 5mm to 1cm in alteration/carbonate zone. Silicification not pronounced. Rx rare pale brown to dark grey away from shear.	
004	4540' Axe 38 N. Bdry	247/22	✓ /3	1.2/	176/	10		andesitic tuff	Dissem + smears PY <5% on sidewall of brx filled fracture. Wall rock frags in carbonate matrix. Minor limonite + FE staining	
005	5020' Axe 38	1592/11	✓ /29	3.7/	7/	1		altered cherty seds.	10% PY as blebs, smears + dissem in highly fractured + altered seds. Carbonates heal fractures. Located west of a 1½ m hornblende diorite dyke or sill.	2m
006	5340' Axe 38	260/	✓ 10/	1/	4.4/	29/	1	s/t. s/t.	Fine grain anhedral to euhedral PY - bedded 3cm in a highly altered, siliceous siltstone – minor limonite staining.	
007	5110' Axe 35/26 boundary E side	766/24	✓ /1	2.7/	2/	6		Augite Porphyry	Qtz carbonate vein stockwork (?) 1-2cm contains PY, malachite and lesser (minor) native copper with alteration halo.	
008	4660' Axe 35 South - mid	9/56	✓ /84	.7/	1/	65		Volcaniclastic agglomerate	PY > 5% in matrix of a volcanic conglomerate or agglomerate near contact with mafic volcanic (flow?) - banding above.	
009	4660' Axe 35 15m No of 008	9/	✓ 94/	52/	.6/	1/	178	felsic dyke.	> 5% PY in a layered or zoned felsic dyke intruding volcanic conglomerate	
010	4820' Axe 26	63./	✓ 17/	19/	2.3/	2/	1	Augite Porphyry	Whole rock for geochem – On strike with Bond showing XR007	

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: Beauchamp #153
Area (Grid):
Collectors: Trevor Shephard

Results Plotted By:
Map: NTS:
Date: June 1990 Surface ✓ Underground

SAMPLE NUMBER 90V153R	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH) GRAB	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
001	100m to east of 6+50 station at 5100'.	131/21	✓ /16	/2.4	/1	/16			Chirt pebble conglomerate with blebs & disseminations of pyrite. Rusty red stains	
002	Elev 1325m located 50m at 270 from 90V1535-083 soil station	439/22	✓ /3	/26	/92	/22			Pyrite veining. Not disseminated in host rock. Calcite stockworking.	
003	Elev. 1310m. located next to 13+50 soil station (90V1535-084)	648/10	✓ /5	/3.5	/3	/1			Andacite, with ≈ 2-5% disseminated pyrite. Possibly Chalco pyrite. Rust & malachite stains.	
004	Elev 1215m, located beside 90V1535-156 soil station. (18+50)	485/88	✓ /806	/3.8	/13	/137			Calcite altered mafic volcanic Vein of calcite containing 5-10% pyrite.	

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: BEAUCHAMP OPTION 153
Area (Grid):
Collectors: M BOBYN

Results Plotted By: M. BOBYN
Map: NTS: 104 G/9
Date: JUNE 1990 Surface ✓ Underground

SAMPLE NUMBER	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH) GRAB	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
90 F 153R 011	15m N of 010;		✓					Hbl. Diorite Dyke	F.g. - m.g. 20-25% Hbl.; sl. silicified 5-7% dissem Py 2-3% dissem Po	
		97/24	/57	/31	/49	/1				
90 F 153R 012	Middle Y W. Trib - Santa Creek;		✓					Silicified Hematized Greywacke	F.g. hematized, minor carb altered sl. Brecciated Greywacke 1-2% dissem Py + Py f.f.	
		76/	23	/90	/1.4	/1/8				
90 F 153R 013	Below 1st Y + 2nd Y Santa Creek.		✓					Quartz + Carbonate Vein	F.g. Gossanous Reddish Brown; v. fractured 10-15% Py; Tr Cpy; Sample contains wisps + stringers of Slt host.	
		154/	148	/1082	/5.2	/467	/488			
90 F 153R 014	As 013		✓					"	" Vein Material Only. 5-7% Py; Tr Cpy; Tr Galena.	
		158/	216	/768	/5.1	/420	/219			
90 F 153R 015	At location of Anomalous 89 AMS 07 Soil		✓					Hbl. Diorite Dyke	F.g. Py replaces hbl. pseudomorphs 2% Py.	
		126/	28	/77	/1.7	/1	/29			
90 F 153R 016	"		✓					Sheared Siltstone	F.g. Very Strongly Sheared Siltstone Minor Py Min. ½-1%	
		72/	27	/71	/1.6	/2	/23			
90 F 153R 017 *	From Creek at Band Showing; 2m from 06 R007		✓					Altered Siltstone? Volcaniclastic?	F.g. Extremely hematized; Qtz + Carb Veinlets to 3.0cm cut; Nil Min except for Tr Visible Native Copper.	

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: BEAUCHAMP OPTION 153
Area (Grid):
Collectors: M. BOBYN

Results Plotted By: M. BOBYN
Map: NTS: 104 G/9
Date: JUNE 1990 Surface ✓ Underground

SAMPLE NUMBER	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH) GRAB	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
90 F153R 001	Sentra Creek	47/52	✓ / 18	3 / 1.9	/ 18	/ 757		Carbonate Altered Lithic Greywacke; Gwacke	Hematite stained carbonate altered Lithic Greywacke; 2-3% Py along carbonate veinlets and disseminated.	
90 F153R 002	Hi Sample Location 89 AMR 34;	1091/2	✓ / 81	/ 2.35	/ 27.8	/ 117	/ 439	Qtz Vein	Quartz Vein; 0.25-1.0 m wide; 15-20m Treceable; ≈15% Py; disseminated & in Semimassive Valets; 2-3% Cpy; Tr Galena; Tr Sphalerite?	
90F153R 003	Below FR002	4253	/ 705	/ 180	5 / 99.1	/ 615	/ 1629 ✓	Mineralized Gwacke / Siltstone.	Semimassive angular boulder of Semimassive Py; Host rock - Gwacke / Siltstone? Tr AsPy	
90F153R 004	Sentra Creek Upper Y East Creek	148	/ [135] / [134]	/ 3.2	/ 61	/ 140	✓?	Carbonate Altered Siltstone	Carbonate Breccia; Likely proximal to source; Float from shear zone; Carbonate Altered Siltstone; 1-2% Py; ½-1% Cpy; Tr AsPy? Galena (f.g.)	
90F153R 005	Sentra Creek Upper Y East Creek	28/3	8 / [9] [42]	/ 2.3	/ 38	/ 1960	4	Silicified Hematized Siltstone.	Carbonate Altered, Silicified, Hematized. Sediments; Siltstone / Gwacke? Very fg. dissem. Py ≈ 15-20%; <1% AsPy	
90F153R 006	Second Glance Vein Zone; Hanging wall	341/1	✓ / 81	/ 55	/ 7.2	/ 388	/ 833	Carbonate Altered Silicified Siltstone.	Carbonate Altered + Silicified Siltstone; Massive Py Veins 2cm width. Tr Galena.	
90F153R 007	Second Glance / Sentra Vein / Small Vein Between:	133[6]	✓ / 38	/ 84	/ 8.8	/ 157	/ 634	Silicified Siltstone?	Silicified Carb Altered Vein; Zone? ≤ 0.7m width; Accessorys Sediments 5-7% Cpy; 3-5% Py; Tr Galena.	
90F153R 008	Second Glance - Sentra Vein; / Continuation of 2nd Glance Vein	681/8	✓ / 03	/ 3879	/ 10.0	/ 99	/ 290	Sheared Silicified Siltstone	Carbonate Veinlet in Sheared Silicified Siltstone + Gwacke; 1-2% Py; 1-2% Cpy, Tr ZnS	
90F153R 009	2nd Glance Vein	1273	✓ / 3039	/ 4029	/ 14.0	/ 219	/ 823	Quartz vein	High Grade representative Grab of 2nd Glance Vein; 2-3% Cpy; 5-7% Py Tr. PbS, ZnS?	
90F153R 010	Sentra Creek E side Below top Y	36/38	✓ / 61	/ 2.0	/ 9	/ 67		Silicified Carb Altered Sil[illegible]	Calcite veins to 2cm width; "Carbonate Breccia"; 3-5% Py.	

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: _____ Results Plotted By: _____

Area (Grid): _____ Map: _____ NTS: _____

Collectors: _____ Date: _____ Surface ___ Underground ___

SAMPLE NUMBER	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH) GRAB	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
9BU153R012	N facing talus slope (on map)	76					✓	Sal. Alt. Vol	Gaussened Salicous volcanic sub Angular float with 7 20% iron pyrite + trace galena, yellow staining along fractures (Aspy)	
		123		90	1.4	1	8			
9BU153R013		154		148	1082	6.2	467	Sal basalt (pyroclastic)	Breccia frags within have been chloritized. very gaussened with 75% iron pyride. Hematite along fractures.	
		148					488			

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Project: Beauchamp Exploration
Area (Grid): # 153
Collectors: Michael Skeach

Results Plotted By: Michael Skeach
Map: _____ NTS: _____
Date: July 7/90 Surface ✓ Underground ___

SAMPLE NUMBER	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH) GRAB	CHIP	CHANNEL	CORE	FLOAT	ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
90W153R001	5010 ft Head of creek on plateau		✓						Localized rusty zone (10m), Highly siliceous and calcareous, Alot of carb rust in sheer 10m west, <5% diss pyrrhotite (magnetic)	
			34	/65/				Silicas Alt. Vol.		
		90	/[illegible]	/[illegible]	/2.8	/172	/1			
90W153R002	5m from 89ACL22 down stream						✓	Alt. Vol	Sub Angular float probably from sheer metres in 400', covered in carb rust,	
		123	/302	/549	/3.5	/246	/1486	Pyroclastic	<3% iron pyrite trace Arsenopyrite	
90W153R003	4420 ft		✓					sheered Alt volcanic	small quartz veined sheer 105° 48°, sample is chip across area, matrix has hematite veinlets <3% Arsenopyrite trace ironpyrite	
		359	/26	/42	/2.3	/225	/32			
90W153R004	on map (Sentra creek)		✓					carb+chert vein (calcite)	matrix is a greywacke, vein 050° 85° is has >3% calcopyrite and <3% ironpyrite with trace galena, vein is 2 inches wide	
		1072	/327	/1675	/12.7	/178	/547			
90W153R005	" "		✓					Sal. calcite	Vein is parrellel to the Sentra, wall rock is a greywacke, 7-9% calcopyrite <3% ironpyrite trace galena	
		129	/60	/47	/3.4	/159	/292			
90W153R006	Second Glance Vein		✓					" "	Vein is parallel to Sentra 10-15cm wide, calcified calcite with 2-3% galena 3-5% calco 10-12% diss py, asb is high grad galena sample	
		1259	/4185	/3856	/17.8	/1001	/831			
90W153R007	" "	1370	/2764	/3182	/39.7	/561	/667	" "	High grade ironpyrite sample	
90W153R008	" "	2822	/10134	/4992	/44.7	/980	/1444	" "	High grade ironpyrite	
90W153R009	" "	1275	/2938	/3573	/16.6	/336	/732	greywacke	Foot wall sample 2-3% py 1-2% calco trace galena	
90W153R010			✓					Silicified Carb Vein	6-8 inch vein, orange rusting, calcareous with <3% ironpyrite, wall has trace sulphides.	
		36	/38	/61	/2.0	/9	/67			
90W153R011							✓	Sal carb Alt.	Very Angular float, <3% calco <3% ironpyrite Trace malachite stain, fracture fill sulphides.	
		97	/24	/53	/31	/49	/1			

APPENDIX X

Geophysical Report, Induced Polarization and Magnetometer Surveys, Beauchamps Property, Dease Lake Area, B.C.

by A. Scott

GEOPHYSICAL REPORT

INDUCED POLARIZATION AND MAGNETOMETER SURVEYS

BEAUCHAMP PROPERTY

BEAUCHAMP NORTH AND BEAUCHAMP SOUTH GRIDS

DEASE LAKE AREA, BRITISH COLUMBIA

on behalf of

KEEWATIN ENGINEERING INC.
800 - 900 West Hastings Street
Vancouver, B.C. V6C 1E5

Field work completed: August 3-7, 19-21, 1990

by

Alan Scott, Geophysicist
SCOTT GEOPHYSICS LTD.
4013 West 14th Avenue
Vancouver, B.C. V6R 2X3

January 14, 1991

TABLE OF CONTENTS

Appendix

Accompanying Maps

1. INTRODUCTION

Induced polarization and magnetometer surveys were conducted over portions of the Beauchamp Property, Dease Lake Area, B.C., within the periods August 3-7 and August 19-21, 1990. The work was conducted by Scott Geophysics Ltd. on behalf of Keewatin Engineering Inc.

The surveys covered two areas on the Beauchamp Property, referred to in this report as the Beauchamp North and Beauchamp South Grids.

The pole dipole electrode array was used on the induced polarization survey, with "a" spacings of 25 and 75 meters, and "n" separations of 1 and 2. The current electrode was to the north of the receiving electrodes on the Beauchamp North Grid, and to the south of the receiving electrodes on the Beauchamp South Grid.

Total field magnetometer readings were taken at 25 meter intervals.

This report describes the instrumentation and procedures, and presents the results of the surveys.

2. CLAIMS LOCATION AND ACCESS

The Beauchamp Property is located some 80 kms south of Dease Lake, B.C. Access to the survey area was by helicopter from a camp established by Keewatin.

3. SURVEY GRID AND SURVEY COVERAGE

A total of 13.7 line kilometers of induced polarization survey and magnetometer survey were completed on the Beauchamp Property, of which 9.9 kms were on the North Grid and 3.75 were on the South Grid. The grid lines were established concurrently with the induced polarization survey. Details of lines surveyed are given in the production report.

4. PERSONNEL

Jim Hawkins, geophysicist, was the party chief on the survey. Dave Mehner, geologist, was the Keewatin representative for the survey.

5. INSTRUMENTATION AND PROCEDURES

A Scintrex IPR11 time domain, microprocessor based receiver, and a Scintrex 2.5 kw IPC7 transmitter, were used for the induced polarization survey. Readings were taken using a 2 second alternating square wave. The chargeability for the eighth slice (690 to 1050 milliseconds after shutoff; midpoint at 870 milliseconds) is the value that has been plotted on the accompanying plans and pseudosections.

The array used for this survey is a variation of the pole dipole array, using "a" spacings of 25 and 75 meters at "n" separations of 1 and 2. This array is primarily designed towards detecting large scale features, with the large "a" spacings providing a reasonable depth of exploration and the small "a" spacings an estimate of cover to the top of any anomalies detected.

Two EDA OMNI total field proton precession magnetometers were used for the magnetometer survey. One unit was used as a fixed base station, cycling at 15 second intervals, and the other as the survey unit. Readings were taken concurrently with the induced polarization survey, during moves between stations. A noise envelope of less than plus/minus 10 gammas could be present for any readings that may have been taken when the transmitter was on.

The survey data was archived, processed, and plotted using a Toshiba T1200 microcomputer running Scintrex Soft II and proprietary software.

6. DISCUSSION OF RESULTS

The chargeability and resistivity results are presented in standard pseudosection form, and as contour plans for the a=75/n=1 values on the accompanying maps for the North and South grids repectively.

Chargeability highs detected on the survey have been defined on those pseudosections and plan maps as follows:

- strong chargeability high
- moderate chargeability high
- weak chargeability high
- weak, poorly defined, chargeability high

The magnetometer results have been contoured at the relatively coarse interval of 500 gammas.

North Grid:

A strong chargeability high was detected at the south end of lines 1400E and 1600E. It is coincident with low resistivity (less than 100 ohm meters).

A grid southeast trending zone of weak to moderate chargeability highs was detected in the northwest section of the grid from line 200E/50S to 600E/950S. The moderate chargeability high at 1200E/950S appears to lie on this same trend. A weak zone trends parallel to this feature, and some 300 meters to the northeast, on lines 400E to 600E. These chargeability highs are associated with weakly low resistivity.

A magnetic high was detected at the northern edge of the North Grid.

South Grid:

A strong chargeability high was detected on all four survey lines on the south grid. It is associated with low to very low resistivity (to less than 20 ohm meters).

6. RECOMMENDATIONS

The induced polarization survey on the Beauchamp Property detected weak to strong chargeability highs as discussed above. The strong chargeability highs are coincident with low to very low resistivity, while the weak to moderate chargeability highs are associated with weakly low resistivity.

Correlation of these results to geochemical and geological information is required before any recommendations for further work could be made. Those chargeability highs that do not have their strongest response at the a=25/n=1 reading, may have too much cover to allow testing by trenching.

Respectfully Submitted,

Alan Scott, Geophysicist

Statement of Qualifications

for

Alan Scott, Geophysicist

of

4013 West 14th Avenue
Vancouver, B.C. V6R 2X3

I, Alan Scott, hereby certify the following statements regarding my qualifications and involvement in the program of work described in this report.

1. The work was performed by individuals sufficiently trained and qualified for its performance.

2. I own no interest in the property under consideration in this report, nor in the company on whose behalf this report has been written.

3. I graduated from the University of British Columbia with a Bachelor of Science degree (Geophysics) in 1970, and with a Master of Business Administration degree in 1982.

4. I am a member of the B.C. Geophysical Society and of the Society of Exploration Geophysicists.

5. I have been praticing my profession as a Geophysicist in the field of Mineral Exploration since 1970.

Respectfully submitted,

Alan Scott

APPENDIX XI

Axe Property Diamond Drill Logs

DRILL HOLE LOG

LOCATION: KLASTLINE PLATEAU 104G9E
130°11'N 57°39'N

HOLE NO. DDH-90-B08

AZIM: 310°
DIP: -45°

ELEV: 1337m/4386 (ft)
LENGTH: 114.30m

CORE SIZE: BGM

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.
99.67	310°		-50°

PROPERTY: ASCOT AXE BEAUCHAMPS OPTION

CLAIM NO: AXE 38
SECTION: I.P.GRID L12+20E/9+75S

STARTED: September 16, 1990
COMPLETED: September 19, 1990
PURPOSE: To test I.P. anomaly on Line 12E, Recce. I.P. Grid

LOGGED BY: JASON MILLER
DATE LOGGED: September 21 - 22, 1990
DRILLING CO: FALCON DRILLING
ASSAYED BY: MIN-EN LABS

CORE RECOVERY: 57%

METREAGE FROM	METREAGE TO	DESCRIPTION	SAMPLE NO.	METREAGE FROM	METREAGE TO	LENGTH	ASSAYS Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	As ppm
0.00	19.81	Casing										
19.81	42.70	Light green-grey plag porphyritic andesitic flow. Pheno crysts are a uniform size (0.5mm x 2.0mm laths) and are clay altered. Imbrication of phenos suggest a flow. Clay gouge and rubble occur frequently with faulting at the following locations: 20.00m - 21.00m; 23.50m - 24.50m; 26.40m - 26.50m; 31.30m - 31.60m; 36.80m - 39.00m. Pervasive calcite occurs as an alteration product throughout the interval. 2% calcite veining occurs throughout (sometimes pinkish). Chlorite occurs commonly with clay minerals on fracture lines. No visible sulphides except for subinterval 41.15m - 41.45m = quartz/pyrite/chalcopyrite vein (3cm wide), chlorite altered host, and smaller quartz/calcite/pyrite chalcopyrite patches (≤ 1cm). This 30cm mineralized core contains 10% quartz, 8% pyrite, 2% chalcopyrite, and 5% calcite (75% chloritized host). Structural information w.r.t. the Core Axis is as follows: 32.20 = calcite vein (8mm) @28° 34.90 = calcite/dolomite vein (1cm) @47° 38.75 = pink galcite vein (28mm) @60° and chlorite along fracture @ 24° 41.45 = lower vein contact @ 18° 42.70 = contact @ 62° NOTE: Trace pyrite on fracture with chlorite/clay ≤0.3% pyrite throughout interval.	B29525 B29526 B29527 B29528 B29529 B29530 B29531 B29532 B29533 B29534	19.81 21.00 24.00 27.00 30.00 33.00 36.00 39.00 40.50 42.00	21.00 24.00 27.00 30.00 33.00 36.00 39.00 40.50 42.00 43.50	1.19 3.00 3.00 3.00 3.00 3.00 3.00 1.50 1.50 1.50	72 88 80 28 52 113 77 101 448 126	28 24 31 27 16 20 22 23 24 19	42 43 38 32 20 24 24 30 44 53	1.8 1.3 .8 .9 .9 1.1 1.0 1.1 3.8 1.1	9 4 4 22 6 16 13 9 338 12	1 7 1 97 24 127 111 35 1466 31

DRILL HOLE LOG

HOLE NO. DDH-90-B08 | PAGE 2 OF 2

METREAGE FROM	METREAGE TO	DESCRIPTION	SAMPLE NO.	METREAGE FROM	METREAGE TO	LENGTH	ASSAYS Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	As ppm
42.70	74.52	Green propyliticaly altered, fine grained massive andesite; non-magnetic; consists of abundant pervasive secondary chlorite, 1-2% calcite veining, and 0.5% hematite as vein salvages/fracture coating (after pyrite). Slickensides occur on most fractures. Hematite does not exist below 72.50m = oxidation/reduction boundary. Trace disseminated pyrite (≤0.3%) occurs on fractures in the reduction zone (below 72.50m). Structural information w.r.t. the Core Axis is as follows:	B29535	43.50	45.00	1.50	89	12	71	.8	7	1
			B29536	45.00	48.00	3.00	69	14	79	.9	13	1
			B29537	48.00	51.00	3.00	75	20	89	1.1	1	1
			B29538	51.00	54.00	3.00	51	12	75	1.2	7	1
			B29539	54.00	57.00	3.00	49	14	64	.9	3	1
			B29540	57.00	60.00	3.00	55	19	65	1.4	10	1
			B29541	60.00	63.00	3.00	104	19	64	1.3	8	1
			B29542	63.00	66.00	3.00	75	20	72	1.2	135	1
			B29543	66.00	69.00	3.00	78	20	62	1.2	4	1
			B29544	69.00	72.00	3.00	70	18	75	.9	6	1
			B29545	72.00	75.00	3.00	81	13	66	1.1	8	1
	NOTE: No hematite below 72.50m = oxidized/reduction boundary	47.45 = hematite vein (1-3mm) @ 31° 53.00 = chlorite slickensides @ 27° 70.10 = chlorite slickensides @ 36° 70.40 = calcite/hematite vein (1mm) @ 34° 71.25 = chlorite slicks @ 35° 71.60 = calcite veining (3mm) @ 46°										
74.52	100.50	Grey-brown, very altered heavily jointed aphanitic volcanic (?). Intense faulting gouge and rubble from 89.50m to 107.20m ≤0.5% calcite veining (locally more). Pervasive clay alteration is moderate and pervasive with chlorite slickensides on most fractures. Trace pyrite (≤0.3%) occurs on fractures. Fault surface is at 19° w.r.t. Core Axis at 78.00m and 58° at 89.50m.	B29546	75.00	78.00	3.00	88	10	42	1.0	4	1
			B29547	78.00	81.00	3.00	83	21	76	.9	4	13
			B29548	81.00	84.00	3.00	75	18	89	1.3	8	83
			B29549	84.00	87.00	3.00	105	19	78	1.1	29	24
			B29550	87.00	90.00	3.00	86	23	989	1.2	11	12
			B29551	90.00	93.00	3.00	57	41	220	1.6	7	41
			B29552	93.00	96.00	3.00	72	37	111	1.3	1	33
			B29553	96.00	99.00	3.00	84	26	100	1.3	7	1
			B29554	99.00	102.00	3.00	59	66	140	1.5	4	60
100.50	114.30 E.O.H.	Black carbonaceous silt stone with 3-4% disseminated pyrite (fine) along bedding (primary?). 1% calcite veining occurs mostly as small veinlets (≤1mm wide). Fault gouge and rubble occurs from 89.50m to 107.20m. Rubble and sand occur from 107.20m to 114.30. Pyrite along bedding is at 55° with calcite at 111.75m.	B29555	102.00	105.00	3.00	69	55	975	2.5	4	88
			B29556	105.00	108.00	3.00	68	66	602	1.8	5	125
			B29557	108.00	111.00	3.00	67	35	135	1.5	4	64
			B29558	111.00	114.30 E.O.H.	3.30	106	53	209	2.0	8	72

NO SIGNIFICANT MINERALIZED INTERVALS

KEEWATIN ENGINEERING INC.

DRILL HOLE LOG

LOCATION: KLASTLINE PLATEAU 104-G9E
130°11'W 57°39'N

HOLE NO. DDH-90-B-09

AZIM: 315°
DIP: -45°

ELEV: 1121m/3678 (ft)
LENGTH: 50.29m

CORE SIZE: BGM

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.

PROPERTY: ASCOT AXE BEAUCHAMPS OPTION

CLAIM NO: AXE 38
SECTION: L1400E/6+00N RECCE I.P. LINE

STARTED: September 21, 1990
COMPLETED: September 23, 1990
PURPOSE: To test linear I.P. anomaly with high chargeability and very low resistivity

LOGGED BY: Jason Miller
DATE LOGGED: October 7, 1990
DRILLING CO: FALCON DRILLING
ASSAYED BY: MIN-EN LABS

CORE RECOVERY: 39%

METREAGE FROM	METREAGE TO	DESCRIPTION	SAMPLE NO.	METREAGE FROM	METREAGE TO	LENGTH	ASSAYS Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	As ppm
0.00	9.75	Casing										
9.75	19.40	Black carbonaceous siltstone. Bedding ranges from 0-12° to Core Axis. ≤1.0% fracture pyrite mottled locally from pervasive silicification (≥5%). ≤1.0% dolomite veinlets (≤2mm wide). Non-magnetic.	B31201	9.75	12.00	2.25	54	25	78	1.7	5	61
			B31202	12.00	15.00	3.00	48	16	58	1.0	4	15
			B31203	15.00	18.00	3.00	38	19	48	0.6	15	57
			B31204	18.00	21.00	3.00	52	27	104	2.1	7	82
19.40	19.70	Black, carbonaceous plag crystal tuff. Plag fragments (0.5-2.0mm) are clay altered. 0.5% dolomite fracture fill. Trace disseminated pyrite (≤0.5%). 4-5% black, angular siltstone fragments. Graphite on fractures. Non-magnetic.										
19.70	37.66	Black carbonaceous siltstone as described above (9.75-19.40m). Graphite increase downhole, on fractured surface, producing a phyllitic cleavage below 31.00m. This cleavage ranges from 15-26° to Core Axis. Alteration and mineralization as above (9.75-19.40m). Bedding is very difficult to determine due to dark colour.	B31205	21.00	24.00	3.00	51	21	211	3.3	2	43
			B31206	24.00	27.00	3.00	44	27	150	3.2	1	22
			B31207	27.00	30.00	3.00	64	22	133	3.8	2	68
			B31208	30.00	33.00	3.00	45	30	99	2.5	3	57
			B31209	33.00	36.00	3.00	34	17	72	2.0	2	49
			B31210	36.00	39.00	3.00	47	14	98	1.3	1	50
37.66	43.30	Grey silicified siltstone. Bedding is ≤10° w.r.t. the Core Axis throughout the interval. Abundant carbon/graphite and clay on fractures. ≥3% dolomite veining (≤2mm). ≥5% secondary silicification. Trace disseminated pyrite (≤0.3%).	B31211	39.00	42.00	3.00	28	17	52	0.5	1	53
			B31212	42.00	45.00	3.00	53	21	56	1.4	4	41

DRILL HOLE LOG

HOLE NO. DDH-90-B09 | PAGE 2 OF 2

METREAGE FROM	METREAGE TO	DESCRIPTION	SAMPLE NO.	METREAGE FROM	METREAGE TO	LENGTH	ASSAYS Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	As ppm
43.30	50.29	Black carbonaceous siltstone. A phyllitic cleavage becomes increasingly more developed downhole. The cleavage is ≤5° w.r.t. the Core Axis. 2-3% dolomite veining occurs (≤1mm wide). A preferred dolomite veining orientation is 43° w.r.t. the Core Axis. A fault with abundant black clay occurs approximately 46m for 20cm +. Still non-magnetic. ≤0.5% finely disseminated pyrite occurs throughout (fracture fill pyrite as well). Becomes less silicified downhole (≤2% silification).	B31213	45.00	48.00	3.00	54	15	99	3.4	1	22
			B31214	48.00	50.29	2.29	34	17	71	2.4	15	55
				EOH50.29								
		E.O.H. @ 50.29										
						NO SIGNIFICANT MINERALIZED INTERVALS						

DRILL HOLE LOG

LOCATION: KLASTLINE PLATEAU 104-G9E
130°11'W 57°39'N

HOLE NO. DDH-90-B10

AZIM: 345°
DIP: -45°

ELEV: 1493.5m/4900 (ft)
LENGTH: 103.33m

CORE SIZE: BGM

DIP TEST

METREAGE	AZIMUTH	INCLINATION	CORR. INCLIN.
103.33	345°	-	44.5°

PROPERTY: ASCOT AXE BEAUCHAMPS OPTION

CLAIM NO: AXE 38
SECTION: RECCE I.P. LINE 2E

STARTED: October 3, 1990
COMPLETED: October 7, 1990
PURPOSE: To test Cu-Au soil anomaly with coincident resistivity high.

LOGGED BY: Jason Miller
DATE LOGGED: October 7 - 8, 1990
DRILLING CO: FALCON DRILLING
ASSAYED BY: MIN-EN LABS

CORE RECOVERY: 51%

METREAGE FROM	METREAGE TO	DESCRIPTION	SAMPLE NO.	METREAGE FROM	METREAGE TO	LENGTH	ASSAYS Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	As ppm
0.00	3.05	Casing										
3.05	38.70	Green-grey greywacke sandstone with black siltstone fragments (5-6% of rock). Fault with abundant clay along fractures from 11.89-13.50m. Intense pervasive clay alteration zones at 15.70-17.00m and 19.00-21.00m. Pervasive limonite stain and silicification 12.00-21.00m Abundant clacite veining and breccia from approximately 21.00-24.00m (5-10% calcite). ≤0.5% disseminated pyrite (primary?). The sandstone is massive and bedding can be seen with the imbrication of siltsone fragments (46° to 60° w.r.t. the Core Axis at 37-38.70m).	B31215	3.05	6.00	2.95	146	17	155	1.2	3	1
			B31216	6.00	9.00	3.00	93	11	95	0.5	36	77
			B31217	9.00	12.00	3.00	162	19	118	0.8	130	182
			B31218	12.00	15.00	3.00	271	13	88	2.7	1100	830
			B31219	15.00	18.00	3.00	820	24	137	3.7	2200	6090
			B31220	18.00	21.00	3.00	829	50	209	5.1	3300	1481
			B31221	21.00	24.00	3.00	77	43	462	2.2	122	160
			B31222	24.00	27.00	3.00	108	16	133	1.8	96	98
			B31223	27.00	30.00	3.00	95	19	84	1.8	4	14
			B31224	30.00	33.00	3.00	61	11	59	1.8	5	1
			B31225	33.00	36.00	3.00	97	9	68	1.9	2	1
			B31226	36.00	39.00	3.00	102	8	60	1.8	22	1
38.70	70.70	Interbedded fine grained greywacke and black siltstone. 48.56-48.86m = fragment of plagioclase porphyry. Relatively fresh, unaltered rock, but intensely jointed. Limonite stained fractures from 45.50-70.70m. Abundant calcite fracture fill from 41.00-45.00m (3-4%). Bedding is difficult to determine due to intense jointing. The unit is approximately 75% sandstone/25% siltstone. At the beginning of the interval, the bedding appears to be approximately 40-50° to Core Axis. This increases to 58° downhole (w.r.t. Core Axis) at 56.50m. Trace fracture pyrite (≤0.5%) mostly altered to limonite.	B31227	39.00	42.00	3.00	68	12	56	0.7	1	1
			B31228	42.00	45.00	3.00	69	16	82	0.8	12	1
			B31229	45.00	48.00	3.00	76	17	65	1.1	1	1
			B31230	48.00	51.00	3.00	158	11	85	1.0	27	10
			B31231	51.00	54.00	3.00	81	34	90	1.4	64	1
			B31232	54.00	57.00	3.00	65	15	70	2.0	1	1
			B31233	57.00	60.00	3.00	101	17	70	1.8	42	1
			B31234	60.00	63.00	3.00	71	11	222	1.3	37	1
			B31235	63.00	66.00	3.00	79	54	214	0.8	2	1
			B31236	66.00	69.00	3.00	351	244	1128	2.7	25	1
			B31237	69.00	72.00	3.00	198	48	245	2.9	8	1

DRILL HOLE LOG

HOLE NO. DDH-90-B10 | PAGE 2 OF 2

METREAGE FROM	METREAGE TO	DESCRIPTION	SAMPLE NO.	METREAGE FROM	METREAGE TO	LENGTH	ASSAYS Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	As ppm
70.70	74.00	Grey and black clastic breccia. Greywacke matrix with black siltstone clasts ± chert clasts. Clasts average 8-10mm in width. Some clasts have altered to chlorite (≤5% of rock). Pervasive clay altered matrix occurs throughout at a low intensity. Limonite on fractures is common throughout. Clasts are sub-angular to angular. 1-2% calcite veinlets occur throughout at preferred orientations 27° and 36° to Core Axis. Trace disseminated pyrite (≤0.3%).	B31238	72.00	75.00	3.00	145	40	183	2.2	2	1
74.00	80.80	Interbedded greywacke (fine grained) and black siltstone. Very fine laminae (≤1mm). Unit contains approximately 15% siltstone and 85% greywacke. Limonite on fractures is common. 1.5% calcite veinlets occur throughout (≤1mm). Trace disseminated pyrite with calcite veins. Rock is relatively unaltered. Bedding ranges from 32° to 48° w.r.t. the Core Axis.	B31239	75.00	78.00	3.00	85	22	175	1.2	1	12
			B31240	78.00	81.00	3.00	79	23	133	1.4	1	7
80.80	82.50	Clastic breccia as described above (70.70-74.00m). Contains rare chert and plag porphyry flow clasts. ≤0.5% calcite veining. 4mm calcite vein @ 24° to Core Axis.	B31241	81.00	84.00	3.00	90	17	71	2.3	8	1
82.50	103.33 EOH	Greywacke with black sitlstone fragments (average ≤5mm wide). Approximately 5% fragments in total rock. Fine grained 5% fracture calcite from 85.50-87.00m. The rest of the interval contains ≤0.5% calcite veinlets (≤1.0mm). Minor pervasive clay/calcite alteration (totaling ≤5%). A clastic breccia as described above (70.70-74.00m) occurs from approximately 98.00 to 99.00m. This sandstone is fairly massive with little indication of bedding. Trace disseminated pyrite (≤0.3%).	B31242	84.00	87.00	3.00	74	28	193	1.6	43	310
			B31243	87.00	90.00	3.00	106	20	114	3.1	3	1
			B31244	90.00	93.00	3.00	100	6	78	3.6	1	1
			B31245	93.00	96.00	3.00	95	11	75	3.6	1	1
			B31246	96.00	99.00	3.00	99	6	51	3.3	2	1
			B31247	99.00	103.33 EOH	4.33	83	13	69	3.0	1	1
					ASSAYS		oz/ton Au		oz/ton Ag			
			B31218	12.00	15.00	3.00	0.030		0.12			
			B31219	15.00	18.00	3.00	0.059		0.14			
			B31220	18.00	21.00	3.00	0.099		0.20			
						SIGNIFICANT MINERALIZED INTERVAL						
				12.00	21.00	9.00	0.063		0.15			

KEEWATIN ENGINEERING INC.

APPENDIX XII

Axe Property Diamond Drill Geochemistry Results

COMP: KEEWATIN ENGINEERING
PROJ: #153 BEAUCHAMP
ATTN: RON NICHOLS/ DAVID MEHNER

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0S-0637-RJ1+2
DATE: 90/10/09
* ROCK * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90 153 B29525	9	1.8	72	28	42	1	1	1	70
90 153 B29526	4	1.3	88	24	43	7	1	2	35
90 153 B29527	4	.8	80	31	38	1	1	1	30
90 153 B29528	22	.9	28	27	32	97	1	1	70
90 153 B29529	6	.9	52	16	20	24	1	1	45
90 153 B29530	16	1.1	113	20	24	127	1	1	25
90 153 B29531	13	1.0	77	22	24	111	1	1	30
90 153 B29532	9	1.1	101	23	30	35	1	1	20
90 153 B29533	338	3.8	448	24	44	1466	4	1	45
90 153 B29534	12	1.1	126	19	53	31	1	1	35
90 153 B29535	7	.8	89	12	71	1	1	1	20
90 153 B29536	13	.9	69	14	79	1	1	1	35
90 153 B29537	1	1.1	75	20	89	1	1	1	35
90 153 B29538	7	1.2	51	12	75	1	1	1	25
90 153 B29539	3	.9	49	14	64	1	1	1	45
90 153 B29540	10	1.4	55	19	65	1	1	1	60
90 153 B29541	8	1.3	104	19	64	1	1	1	55
90 153 B29542	135	1.2	75	20	72	1	1	1	40
90 153 B29543	4	1.2	78	20	62	1	1	1	30
90 153 B29544	6	.9	70	18	75	1	1	1	30
90 153 B29545	8	1.1	81	13	66	1	1	1	35
90 153 B29546	4	1.0	88	10	42	1	1	1	50
90 153 B29547	4	.9	83	21	76	13	2	1	35
90 153 B29548	8	1.3	75	18	89	83	2	1	50
90 153 B29549	29	1.1	105	19	78	24	2	1	35
90 153 B29550	11	2.2	86	23	989	12	1	1	200
90 153 B29551	7	1.6	57	41	220	41	1	1	55
90 153 B29552	1	1.6	72	37	111	33	4	1	60
90 153 B29553	7	1.3	84	26	100	1	1	1	80
90 153 B29554	4	1.5	59	66	140	60	1	8	125
90 153 B29555	4	2.5	69	55	975	88	5	9	255
90 153 B29556	5	1.8	68	66	602	125	4	8	175
90 153 B29557	4	1.5	67	35	135	64	3	10	190
90 153 B29558	8	2.0	106	55	209	72	4	10	150

DDH — 90-B-08

COMP: KEEWATIN ENGINEERING
PROJ: 153
ATTN: RON NICHOLS/DAVID MEHNER

MIN-EN LABS — ICP REPORT

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: 0S-0705-RJ1+2
DATE: 90/10/27
* ROCK * (ACT:F31)

SAMPLE NUMBER	AU PPB	AG PPM	CU PPM	PB PPM	ZN PPM	AS PPM	SB PPM	MO PPM	HG PPB
90B 153 R31201	5	1.7	54	25	78	61	1	1	1935
90B 153 R31202	4	1.0	48	16	58	15	1	2	2710
90B 153 R31203	15	.6	38	19	48	57	1	3	2635
90B 153 R31204	7	2.1	52	27	104	82	1	4	1495
90B 153 R31205	2	3.3	51	21	211	43	1	5	2490
90B 153 R31206	1	3.2	44	27	150	22	1	6	2310
90B 153 R31207	2	3.8	64	22	133	68	3	5	2945
90B 153 R31208	3	2.5	45	30	99	57	2	6	2795
90B 153 R31209	2	2.0	34	17	72	49	1	4	2545
90B 153 R31210	1	1.3	47	14	98	50	1	5	2100
90B 153 R31211	1	.5	28	17	52	53	1	1	2470
90B 153 R31212	4	1.4	53	21	56	41	1	4	2255
90B 153 R31213	1	3.4	54	15	99	22	1	6	2000
90B 153 R31214	15	2.4	34	17	71	55	1	8	3170
90B 153 R31215	3	1.2	146	17	155	1	1	1	2450
90B 153 R31216	36	.5	93	11	95	77	1	1	1795
90B 153 R31217	130	.8	162	19	118	182	1	2	1690
90B 153 R31218	1100	2.7	271	13	88	830	1	1	1415
90B 153 R31219	2200	3.7	820	24	137	6090	4	1	1050
90B 153 R31220	3300	5.1	829	50	209	1481	3	2	795
90B 153 R31221	122	2.2	77	43	462	160	1	1	1465
90B 153 R31222	96	1.8	108	16	133	98	1	1	1760
90B 153 R31223	4	1.8	95	19	84	14	1	1	1890
90B 153 R31224	5	1.8	61	11	59	1	1	1	2235
90B 153 R31225	2	1.9	97	9	68	1	1	1	1860
90B 153 R31226	22	1.8	102	8	60	1	1	1	1765
90B 153 R31227	1	.7	68	12	56	1	1	2	1620
90B 153 R31228	12	.8	69	16	82	1	1	1	1630
90B 153 R31229	1	1.1	76	17	65	1	1	1	1885
90B 153 R31230	27	1.0	158	11	85	10	1	1	1500
90B 153 R31231	64	1.4	81	34	90	1	1	2	1820
90B 153 R31232	1	2.0	65	15	70	1	1	1	1730
90B 153 R31233	42	1.8	101	17	70	1	1	3	1745
90B 153 R31234	37	1.3	71	11	222	1	1	2	2235
90B 153 R31235	2	.8	79	54	214	1	1	1	2265
90B 153 R31236	25	2.7	351	244	1128	1	1	5	1800
90B 153 R31237	8	2.9	198	48	245	1	1	1	1485
90B 153 R31238	2	2.2	145	40	183	1	1	1	1465
90B 153 R31239	1	1.2	85	22	175	12	1	28	1410
90B 153 R31240	1	1.4	79	23	133	7	1	1	1200
90B 153 R31241	8	2.3	90	17	71	1	1	1	1335
90B 153 R31242	43	1.6	174	28	193	310	1	1	1550
90B 153 R31243	3	3.1	106	20	114	1	1	1	1475
90B 153 R31244	1	3.6	100	6	78	1	1	1	1520
90B 153 R31245	1	3.6	95	11	75	1	1	1	1855
90B 153 R31246	2	3.3	99	6	51	1	1	1	2145
90B 153 R31247	1	3.0	83	13	69	1	1	1	1515

MINERAL • ENVIRONMENTS LABORATORIES
(DIVISION OF ASSAYERS CORP.)

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
FAX (604) 980-9621

THUNDER BAY LAB.:
TELEPHONE (807) 622-8958
FAX (807) 623-5931

SMITHERS LAB.:
TELEPHONE/FAX (604) 847-3004

Assay Certificate

OS-0705-RA1

Company: **KEEWATIN ENGINEERING** Date: OCT-27-90
Project: 153 Copy 1. KEEWATIN ENGINEERING, VANCOUVER, B.C.
Attn: RON NICHOLS/DAVID MEHNER 2. KEEWATIN ENGRG., VERNON, B.C.

He hereby certify the following Assay of 3 ROCK samples submitted OCT-18-90 by BOB RYZIUK.

Sample Number	*AU g/tonne	*AU oz/ton	AG g/tonne	AG oz/ton
90B 153 R31218 } DDH-90 B/O	1.04	.030	4.0	.12
90B 153 R31219 } DDH-90 B/O	2.02	.059	4.9	.14
90B 153 R31220 } DDH-90 B/O	3.38	.099	6.8	.20

*AU - I ASSAY TON.

Certified by _____

MIN-EN LABORATORIES

APPENDIX XIII

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

I, DAVID T. MEHNER, of 333 Scenic Drive, in the Municipality of Coldstream, in the Province of British Columbia, do hereby certify that:

1. I am a Consulting Geologist with Keewatin Engineering Inc., with offices at 800 - 900 West Hastings Street, Vancouver, B.C. V6C 1E5.

2. I am a graduate of the University of Manitoba, B.Sc. Honours, 1976, M.Sc. Geology, 1982.

3. I have practised my profession continuously since 1979.

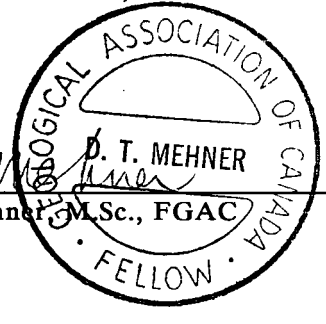
4. I am a Fellow of the Geological Association of Canada.

5. During the period of August to October, 1989 and July to October, 1990, I managed and carried out the exploration program on the Axe claims "Beauchamps Option" near Kinaskan Lake on behalf of Ascot Resources Ltd.

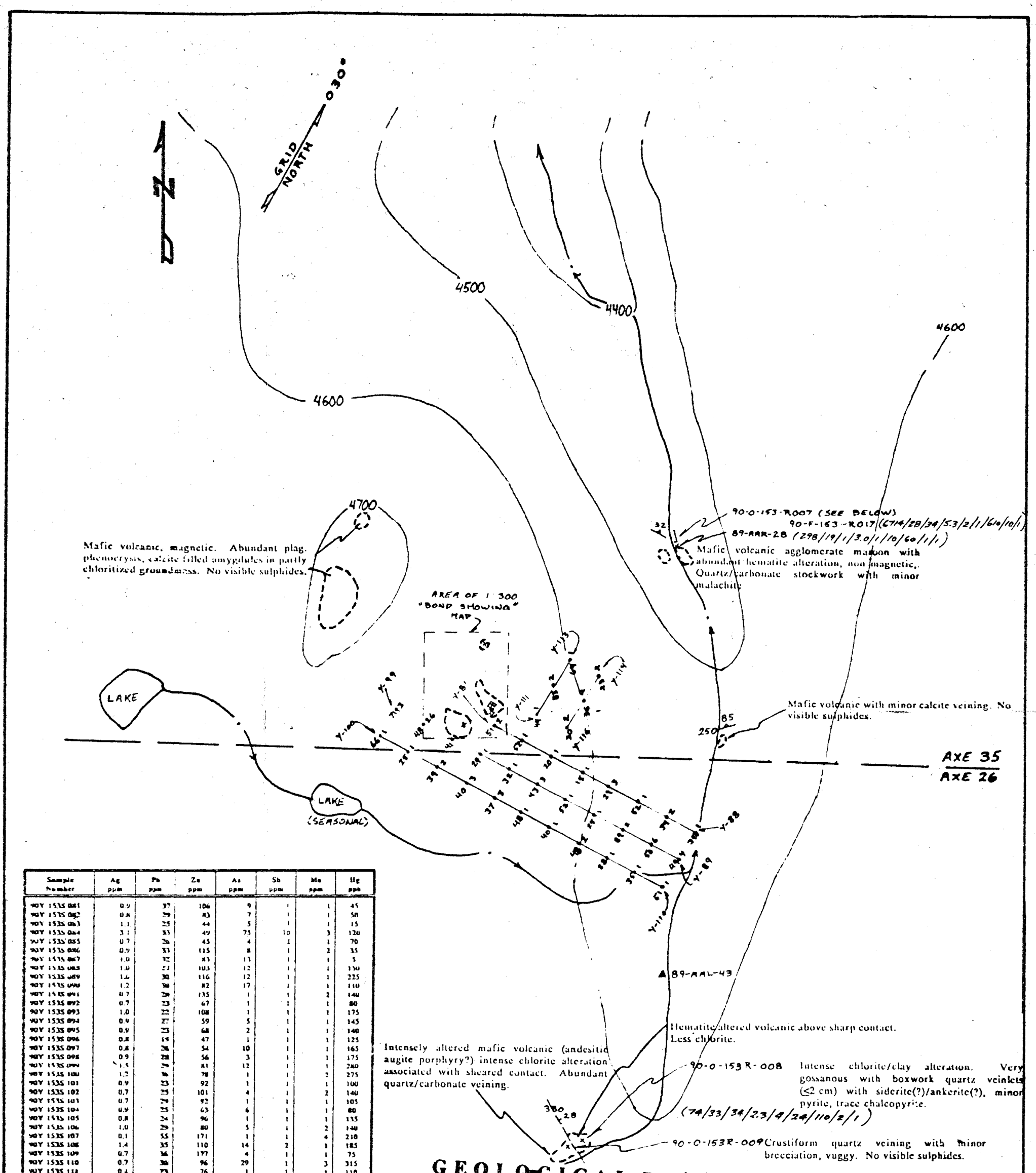
6. I do not own or expect to receive any interest (direct, indirect or contingent) in the properties described herein, nor in the securities of **Ascot Resources Ltd.** in respect of services rendered in the preparation of this report.

Dated at Vancouver, British Columbia, this 21st day of February, A.D. 1991.

Respectfully submitted,



David T. Mehner, M.Sc., FGAC



Sample Number	Ag ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Mo ppm	Hg ppb
90Y 1535 081	0.9	37	106	9	1	1	45
90Y 1535 082	0.8	29	83	7	1	1	50
90Y 1535 083	1.1	25	44	5	1	1	15
90Y 1535 084	3.1	33	49	75	10	3	120
90Y 1535 085	0.7	26	45	4	1	1	70
90Y 1535 086	0.9	33	115	8	1	2	35
90Y 1535 087	1.0	32	83	13	1	1	5
90Y 1535 088	1.0	22	103	12	1	1	130
90Y 1535 089	1.6	30	116	12	1	1	225
90Y 1535 090	1.2	30	82	17	1	1	110
90Y 1535 091	0.7	28	135	1	1	2	140
90Y 1535 092	0.7	23	67	1	1	1	80
90Y 1535 093	1.0	22	108	1	1	1	175
90Y 1535 094	0.9	27	59	5	1	1	145
90Y 1535 095	0.9	23	68	2	1	1	140
90Y 1535 096	0.8	15	47	1	1	1	125
90Y 1535 097	0.8	36	54	10	1	1	165
90Y 1535 098	0.9	28	56	3	1	1	175
90Y 1535 099	1.5	29	81	12	1	1	280
90Y 1535 100	1.2	16	78	1	1	2	275
90Y 1535 101	0.9	23	92	1	1	1	100
90Y 1535 102	0.7	25	101	4	1	2	140
90Y 1535 103	0.7	29	92	1	1	1	105
90Y 1535 104	0.9	25	63	6	1	1	80
90Y 1535 105	0.8	24	96	1	1	1	135
90Y 1535 106	1.0	29	80	5	1	2	140
90Y 1535 107	0.1	55	171	1	1	4	210
90Y 1535 108	1.4	35	110	14	2	1	185
90Y 1535 109	0.7	16	177	4	1	1	75
90Y 1535 110	0.7	38	96	29	1	3	315
90Y 1535 111	0.4	25	76	1	1	1	110
90Y 1535 112	1.1	33	128	1	1	1	140
90Y 1535 113	0.9	23	130	1	1	2	115
90Y 1535 114	1.3	28	58	11	1	1	245
90Y 1535 115	0.7	32	81	6	1	1	65
90Y 1535 116	1.0	28	82	1	1	1	110

NOTE: Cu, Au values unit plotted due to low values of other elements.

0 50 100 150 200 m

SCALE - 1:3000

LEGEND

- 1/30 VEIN ATTITUDE
- 1/30 BEDDING/CONTACT ATTITUDE
- X ROCK SAMPLE LOCATION & GEOCHEMISTRY (ppm Cu/ppm Pb/ppm Zn/ppm Ag/ppb Au/ppm As/ppb Hg/ppm Sb/ppm Mo)
- ▲ SILT SAMPLE LOCATION & GEOCHEMISTRY (ppm Cu / ppm Pb / ppm Zn / ppm Ag / ppb Au)
- 2m x 2m CHIP SAMPLE LOCATIONS
- APPROXIMATE OUTCROP BOUNDARY
- Y-100 66°: SOIL SAMPLE 90Y-153-S100 (Cu ppm • Au ppb)

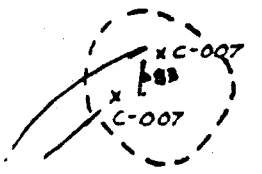
GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,128

AXE CLAIMS - BEAUCHAMPS OPTION
BOND AREA
GEOLOGY
ROCK AND SOIL GEOCHEMISTRY

DATE: DEC 10, 1990	NTS: 104 G / 9E
PROJECT: BEAUCHAMPS	PROJ. GEOL.: J. MILLER
SCALE: 1 3000	
Keewatin Engineering Inc.	MAP No. 2

LASCOT RESOURCES LTD.



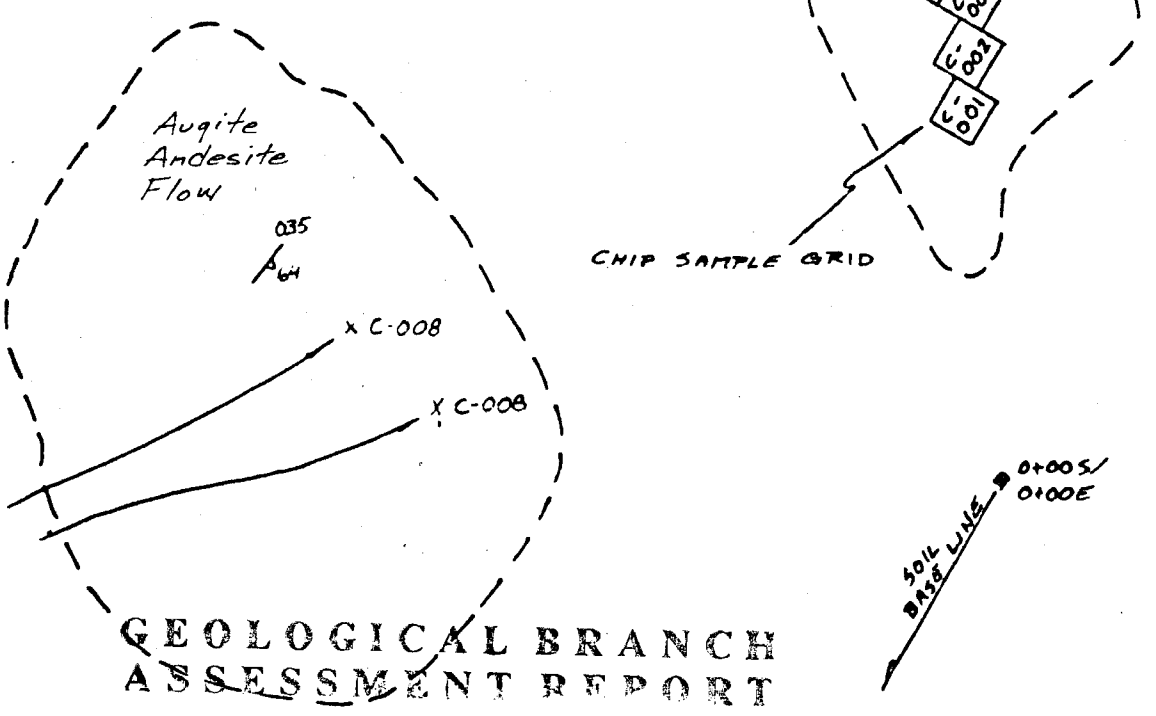
Light green quartz veining (≤1 cm) minor disseminated malachite in chlorite/hematite altered volcanic.

Sample No.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	As ppm	Hg ppb	Sb ppm	Mo ppm
OC-001	495	34	44	2.4	214	212	210	3	1
OC-002	520	31	39	2.0	8	14	95	2	3
OC-003	1,006	34	27	1.7	12	10	55	3	2
OC-004	913	35	24	1.8	4	1	35	6	3
OC-005	445	33	35	1.8	2	1	105	1	1
OC-006	487	26	29	1.8	9	1	70	2	2
OC-007	128	31	44	2.0	6	1	60	1	1
OC-008	2,237	30	18	2.5	1	1	205	6	1

CHIP SAMPLE DESCRIPTIONS

C-003, 004, 006: Light green quartz vein stockwork (abundant disseminated malachite) in chlorite/hematite altered volcanic (andesitic augite porphyry?). Minor native Cu ± Cpy and possible Aspy veins average ~0.5 cm and have a density of ~6-10 veins/m^2.

C-001, 002, 005: As above - average vein width ~0.3 cm.



Light green quartz veining (≤2 cm) disseminated malachite, minor disseminated native Cu, and very fine dull grey sulphide (Aspy?). Density obscured by lichen cover. Chlorite/hematite altered volcanic.

0 5 10 15 20

SCALE - 1:300

LEGEND

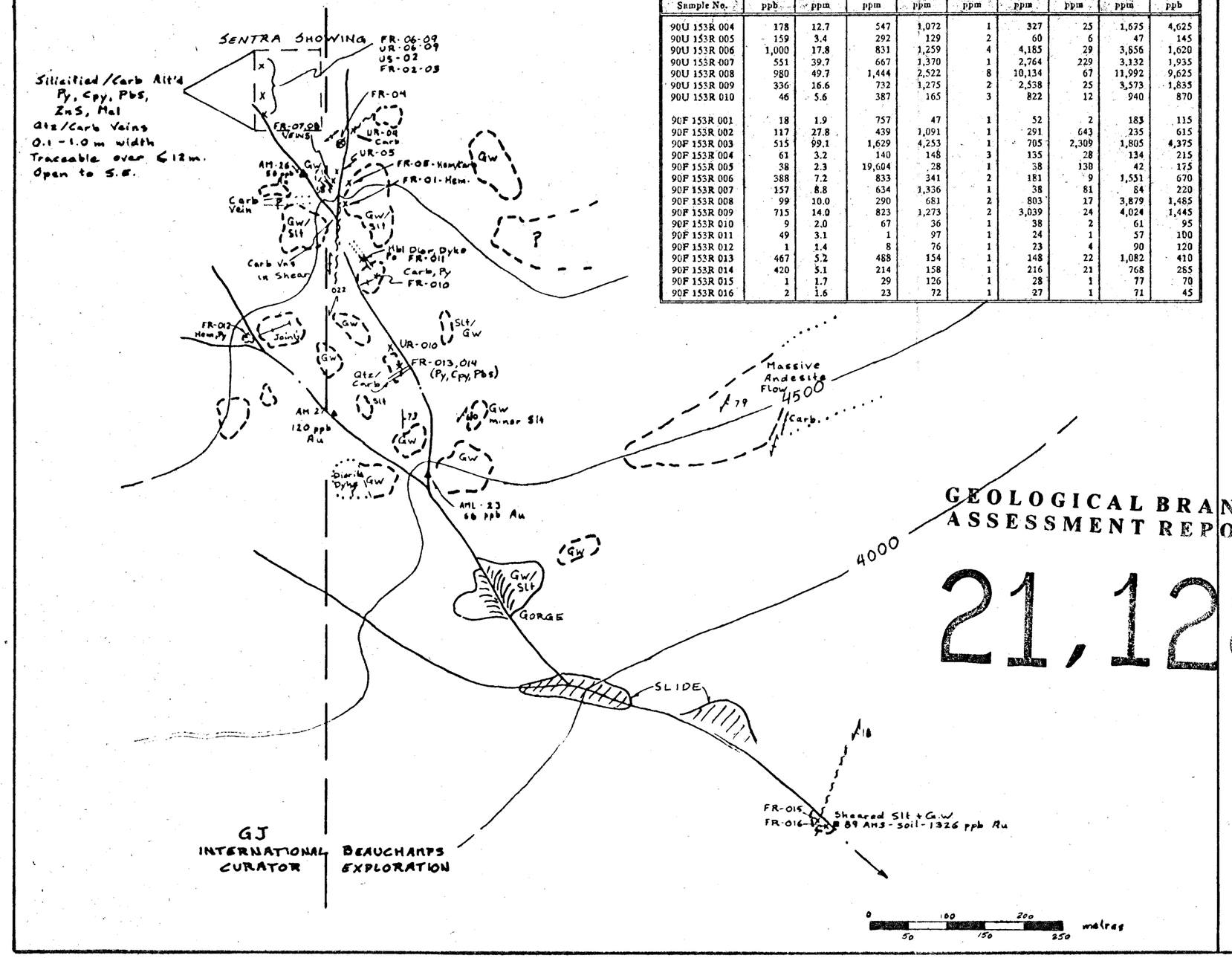
- 15 / 065 — VEIN ATTITUDE
- C-007 X — 20 cm. CHIP SAMPLE LOCATION
- C-003 — 2m x 2m " " "
- SOIL SAMPLE LOCATION
- APPROXIMATE OUTCROP BOUNDARY

ASCOT RESOURCES LTD.

AXE CLAIMS - BEAUCHAMPS OPTION
BOND SHOWING
GEOLOGY
& ROCK GEOCHEMISTRY

DATE: DEC. 10, 1990	NTS: 104G / 9E
PROJECT: BEAUCHAMPS	PROJ. GEOL.: J MILLER
SCALE: 1:300	
Keewatin Engineering Inc.	MAP No. 3

Sample No.	Au ppb	Ag ppm	As ppm	Cu ppm	Mo ppm	Pb ppm	Sb ppm	Zn ppm	Hg ppb
90U 153R 004	178	12.7	547	1,072	1	327	25	1,675	4,625
90U 153R 005	159	3.4	292	129	2	60	6	47	145
90U 153R 006	1,000	17.8	831	1,259	4	4,185	29	3,656	1,620
90U 153R 007	551	39.7	667	1,370	1	2,764	229	3,332	1,935
90U 153R 008	980	49.7	1,444	2,522	8	10,134	67	11,992	9,625
90U 153R 009	336	16.6	732	1,275	2	2,538	25	3,573	1,835
90U 153R 010	46	5.6	387	165	3	822	12	940	870
90F 153R 001	18	1.9	757	47	1	52	2	183	115
90F 153R 002	117	27.8	439	1,091	1	291	643	235	615
90F 153R 003	515	99.1	1,629	4,253	1	705	2,309	1,805	4,375
90F 153R 004	61	3.2	140	148	3	135	28	134	215
90F 153R 005	38	2.3	19,604	28	1	38	138	42	175
90F 153R 006	388	7.2	833	341	2	181	9	1,551	670
90F 153R 007	157	8.8	634	1,336	1	38	81	84	220
90F 153R 008	99	10.0	290	681	2	803	17	3,879	1,485
90F 153R 009	715	14.0	823	1,273	2	3,039	24	4,024	1,445
90F 153R 010	9	2.0	67	36	1	38	2	61	95
90F 153R 011	49	3.1	1	97	1	24	1	57	100
90F 153R 012	1	1.4	8	76	1	23	4	90	120
90F 153R 013	467	5.2	488	154	1	148	22	1,082	410
90F 153R 014	420	5.1	214	158	1	216	21	768	285
90F 153R 015	1	1.7	29	126	1	28	1	77	70
90F 153R 016	2	1.6	23	72	1	27	1	71	45



GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,128

LEGEND

SAMPLES

FR-02 ROCK SAMPLE 90F-153-R-002

FR-04 FLOAT SAMPLE 90F-153-R-004

AML-23 SILT SAMPLE (1989).

GEOLOGY

Gw GREYWACKE

Slt SILTSTONE

Hbl HORNBLENDE

Hem HEMATITE

Po PYRRHOTITE

Py PYRITE

/79 BEDDING ATTITUDE

/60 FOLIATION ATTITUDE

SHEARING ATTITUDE

CONTACT

FAULT/SHEAR

OUTCROP BOUNDARY

ASCOT RESOURCES LTD.

AXE CLAIMS - BEAUCHAMPS OPTION
SENTRA CREEK
GEOLOGY
& ROCK GEOCHEMISTRY

DATE: DEC. 5, 1990	NTS: 104G / 9E
PROJECT: BEAUCHAMPS	PROJ. GEOL.: M. BOBYN
SCALE: 1:5000	
Keewatin Engineering Inc.	MAP No. 4

FALCONBRIDGE LTD.

GJ PROPERTY

BEAUCHAMPS OPTION

CAMP

BOND SHOWING

GROAT CREEK

SENTRA CREEK

AXE 28 | AXE 27 | AXE 5 | AXE 6

AXE 210 | AXE 211 | AXE 212 | AXE 213

AXE 214 | AXE 216 | AXE 215 | AXE 217

old AXE 47 | old AXE 48 | old AXE 38 | old AXE 37

old AXE 35 | old AXE 36 | old AXE 26 | old AXE 25

5100 5500 5500 3700 3500 5000 4000 4600 4300 5200 3900 4000 3500 5400 5200 5000 4000 5107

130°15' 57°37'

LEGEND

- SOIL SAMPLE 90-V-153S-210 (V-210 / 61) ppm Cu
- 1989 SILT SAMPLE (RA-08 / 125) ppm Cu
- 1990 SILT SAMPLE (X-014 / 125) ppm Cu
- HELICOPTER LANDING SITE
- > 150 ppm Cu

0 0.5 1 km

Base map is blow-up of 1:50,000 Government topographic map ; Ground control by compass, topochain and altimeter.

GEOLOGICAL BRANCH ASSESSMENT REPORT

21,128

ASCOT RESOURCES LTD.

AXE CLAIMS – BEAUCHAMPS OPTION

Cu SILT & SOIL GEOCHEMISTRY

DATE: Nov. 9, 1990	NTS: 104G/9E,W
PROJECT: KLASTLINE PLATEAU	PROJ. GEOL.: D. Mehner
SCALE: 1:10,000	
Keewatin Engineering Inc.	MAP No. 5

FALCONBRIDGE LTD.

GJ PROPERTY

BEAUCHAMPS OPTION

GROAT CREEK

ESSENTRA CREEK

FIRE CREEK

BOND SHOWING

CAMP

AXE 28 | AXE 27 | AXE 5 | AXE 6

old AXE 47 | old AXE 48 | old AXE 38 | old AXE 37

AXE 210 | AXE 211 | AXE 212 | AXE 213

old AXE 35 | old AXE 36 | old AXE 26 | old AXE 25

AXE 214 | AXE 215 | AXE 216 | AXE 217

5100 5500 5500 5455 3700 3500 5200 4000 4600 4300 5200 3900 4000 3500 5400 5200 5000 5107 5000

130°15' 57°37'

LEGEND

- SOIL SAMPLE 90-V-153S-210 ppb Au
- 1989 SILT SAMPLE ppb Au
- 1990 SILT SAMPLE ppb Au
- HELICOPTER LANDING SITE
- >60 ppb Au

0 0.5 1 km

Base map is blow-up of 1:50,000 Government topographic map ; Ground control by compass, topochain and altimeter .

ASCOT RESOURCES LTD.

AXE CLAIMS – BEAUCHAMPS OPTION

Au SILT & SOIL GEOCHEMISTRY

DATE: Nov. 9, 1990	NTS: 104G/9E,W
PROJECT: KLASTLINE PLATEAU	PROJ. GEOL.: D. Mehner
SCALE: 1:10,000	
Keewatin Engineering Inc.	MAP No. 6

130°15'

57°37'

FALCONBRIDGE LTD.

GJ PROPERTY

BEAUCHAMPS OPTION

GROAT CREEK

SENTRA CREEK

FIRE CREEK

BOND SHOWING

CAMP

old AXE 47 | old AXE 48

old AXE 38 | old AXE 37

AXE 210 | AXE 211

AXE 212 | AXE 213

AXE 28 | AXE 27

old AXE 35 | old AXE 36

old AXE 26 | old AXE 25

AXE 214 | AXE 215

AXE 216 | AXE 217

AXE 5 | AXE 6

5100 5500 5500 3700 3500 4000 4600 4300 3900 4000 3500 5400 5200 5000 5100 4000

LEGEND

- V-210 / 61 — SOIL SAMPLE 90-V-153S-210, ppm Pb / ppm Zn
- AA-08 / 135 — 1989 SILT SAMPLE, ppm Pb / ppm Zn
- X-014 / 125 — 1990 SILT SAMPLE, ppm Pb / ppm Zn
- ○ — HELICOPTER LANDING SITE
- ⟩40 ppm Pb
- ⟩160 ppm Zn

0 0.5 1 km

Base map is blow-up of 1:50,000 Government topographic map ; Ground control by compass, topochain and altimeter .

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,128

ASCOT RESOURCES LTD.	
AXE CLAIMS – BEAUCHAMPS OPTION	
Pb / Zn SILT & SOIL GEOCHEMISTRY	
DATE: Nov. 9, 1990	NTS: 104G/9E,W
PROJECT: KLASTLINE PLATEAU	PROJ. GEOL.: D. Mehner
SCALE: 1:10,000	
Keewatin Engineering Inc.	MAP No.7

FALCONBRIDGE LTD.

GJ PROPERTY

BEAUCHAMPS OPTION

CAMP

GROAT CREEK

SENTRA CREEK

FIRE CREEK

BOND SHOWING

AXE 28 | AXE 27 | AXE 5 | AXE 6

old AXE 47 | old AXE 48 | old AXE 38 | old AXE 37 | AXE 210 | AXE 211 | AXE 212 | AXE 213

old AXE 35 | old AXE 36 | old AXE 26 | old AXE 25 | AXE 214 | AXE 215 | AXE 216 | AXE 217

5100 5500 5500 5355 3700 3500 5000 4000 4600 4300 5200 3900 4000 3500 5400 5200 5000 4000

130°15' 57°37'

LEGEND

- V-210 / 1.3/61 — SOIL SAMPLE 90-V-153S-210, ppm Ag / ppm Mo
- AA-08 / 2.1 — 1989 SILT SAMPLE, ppm Ag
- X-0.14 / 0.8/125 — 1990 SILT SAMPLE, ppm Ag / ppm Mo
- ○ — HELICOPTER LANDING SITE
- > 2.0 ppm Ag
- > 5ppm Mo

0 0.5 1 km

Base map is blow-up of 1:50,000 Government topographic map ; Ground control by compass, topochain and altimeter.

GEOLOGICAL BRANCH ASSESSMENT REPORT

21,128

ASCOT RESOURCES LTD.

AXE CLAIMS – BEAUCHAMPS OPTION

Ag / Mo SILT & SOIL

GEOCHEMISTRY

DATE: Nov. 9, 1990	NTS: 104G/9E,W
PROJECT: KLASTLINE PLATEAU	PROJ. GEOL.: D. Mehner
SCALE: 1:10,000	
Keewatin Engineering Inc.	MAP No. 8

130°15'

FALCONBRIDGE LTD.

GJ PROPERTY

BEAUCHAMPS OPTION

CAMP

GROAT CREEK

SENTRA CREEK

FIRE CREEK

BOND SHOWING

AXE 28 | AXE 27

AXE 5 | AXE 6

AXE 210 | AXE 211

AXE 212 | AXE 213

AXE 214 | AXE 215

AXE 216 | AXE 217

old AXE 47 | old AXE 48

old AXE 38 | old AXE 37

old AXE 35 | old AXE 36

old AXE 26 | old AXE 25

5100 5500 5500 5345 3700 5455 3500 4600 4300 5200 3900 5400 5200 4000 3500 5000 4200 4000

57°37'

C A

21,128

GEOLOGICAL BRANCH
ASSESSMENT REPORT

LEGEND

- V-210 / 15/61/135 — SOIL SAMPLE 90-V-153S-210; ppm As / ppb Hg / ppm Sb
- AA-08 — 1989 SILT SAMPLE
- X-014 / 141/125/12 — 1990 SILT SAMPLE; ppm As / ppb Hg / ppm Sb
- HELICOPTER LANDING SITE
- ⩾150 ppm As
- ⩾200 ppb Hg

0 0.5 1 km

Base map is blow-up of 1:50,000 Government topographic map ; Ground control by compass, topochain and altimeter.

ASCOT RESOURCES LTD.

AXE CLAIMS – BEAUCHAMPS OPTION

As / Hg / Sb SILT & SOIL

GEOCHEMISTRY

DATE: Nov. 9, 1990	NTS: 104G/9E,W
PROJECT: KLASTLINE PLATEAU	PROJ. GEOL.: D. Mehner
SCALE: 1:10,000	
Keewatin Engineering Inc.	MAP No. 9

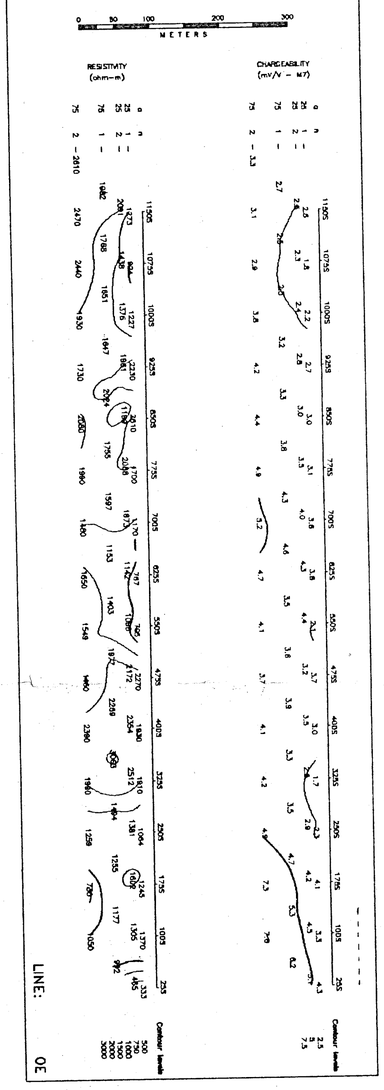
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY, NORTH GRID, DEASE LAKE AREA, B.C.

LINE: 0E

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
90/08/03
current electrode north of potential electrodes

Pole-Dipole Array
Scintrex IPR-11
Pulse Rate: 2 sec



LINE: 0E

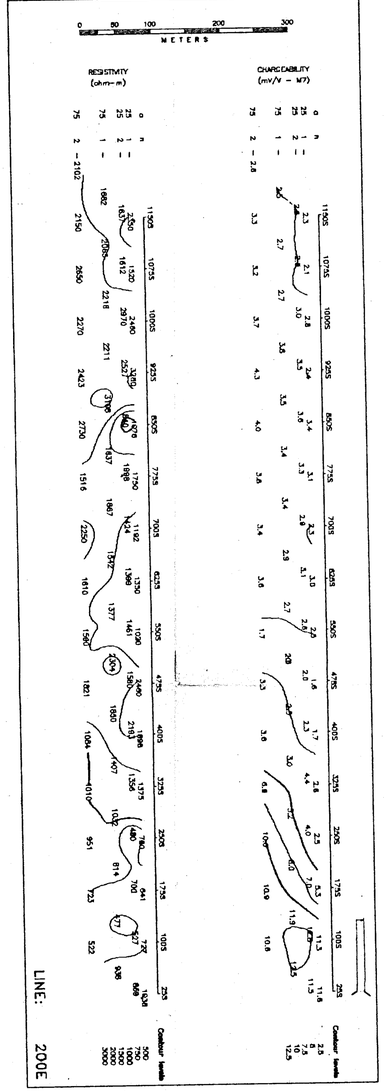
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY, NORTH GRID, DEASE LAKE AREA, B.C.

LINE: 200E

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
90/08/04
current electrode north of potential electrodes

Pole-Dipole Array
Scintrex IPR-11
Pulse Rate: 2 sec



LINE: 200E

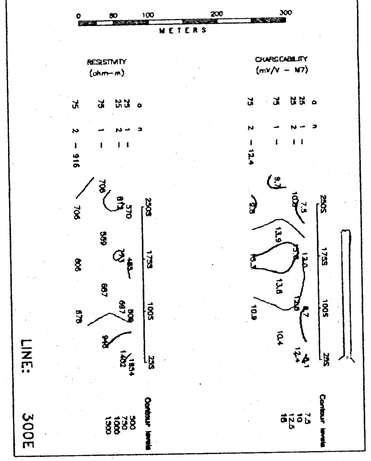
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY, NORTH GRID, DEASE LAKE AREA, B.C.

LINE: 300E

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
90/08/05
current electrode north of potential electrodes

Pole-Dipole Array
Scintrex IPR-11
Pulse Rate: 2 sec



LINE: 300E

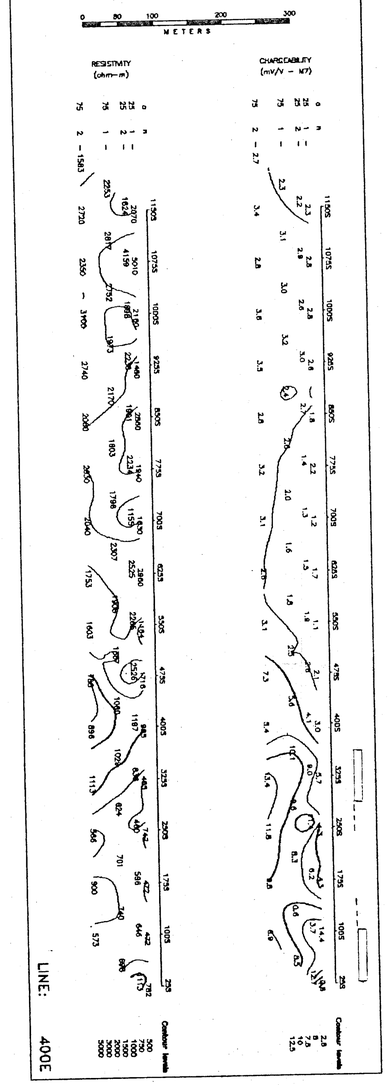
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY, NORTH GRID, DEASE LAKE AREA, B.C.

LINE: 400E

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
90/08/04
current electrode north of potential electrodes

Pole-Dipole Array
Scintrex IPR-11
Pulse Rate: 2 sec



LINE: 400E

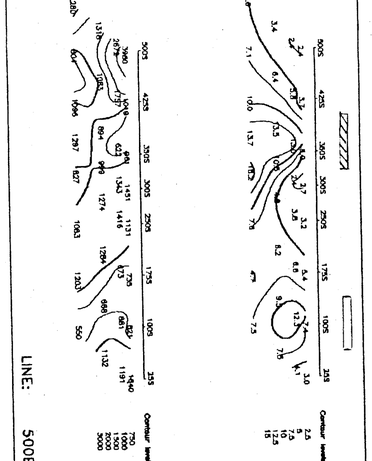
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY, NORTH GRID, DEASE LAKE AREA, B.C.

LINE: 500E

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
90/08/05
current electrode north of potential electrodes

Pole-Dipole Array
Scintrex IPR-11
Pulse Rate: 2 sec



LINE: 500E

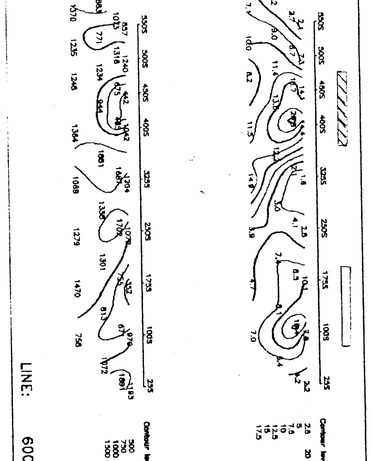
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY, NORTH GRID, DEASE LAKE AREA, B.C.

LINE: 600E

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
90/08/05
current electrode north of potential electrodes

Pole-Dipole Array
Scintrex IPR-11
Pulse Rate: 2 sec



LINE: 600E

MAP 10b

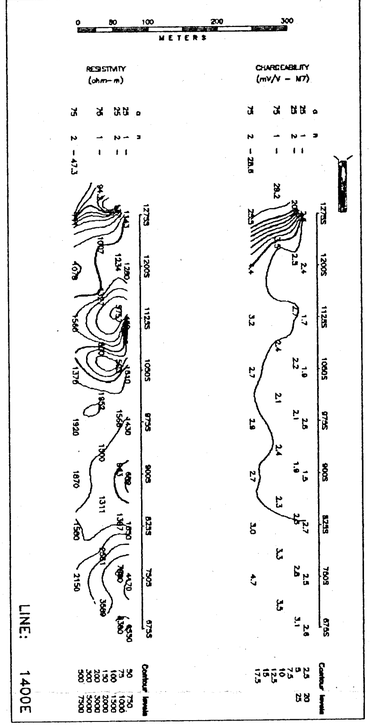
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY, NORTH GRID, DEASE LAKE AREA, B.C.

LINE: 1400E

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
90/08/08
current electrode north of potential electrodes

Pole-Dipole Array
Scintrex IPR-11
Pulse Rate: 2 sec



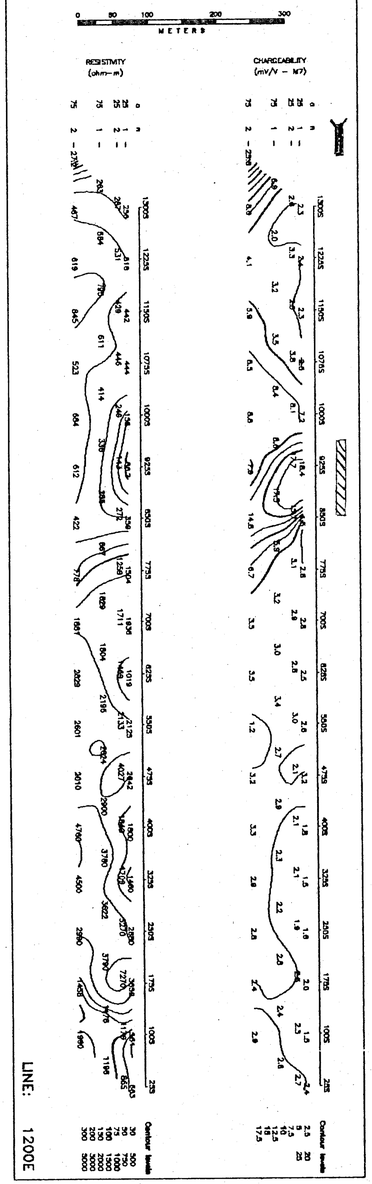
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY, NORTH GRID, DEASE LAKE AREA, B.C.

LINE: 1200E

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
90/08/06
current electrode north of potential electrodes

Pole-Dipole Array
Scintrex IPR-11
Pulse Rate: 2 sec



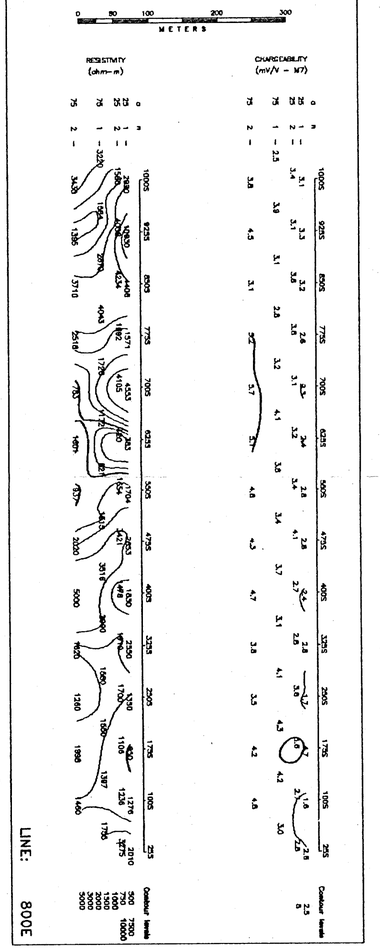
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY, NORTH GRID, DEASE LAKE AREA, B.C.

LINE: 800E

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
90/08/05
current electrode north of potential electrodes

Pole-Dipole Array
Scintrex IPR-11
Pulse Rate: 2 sec



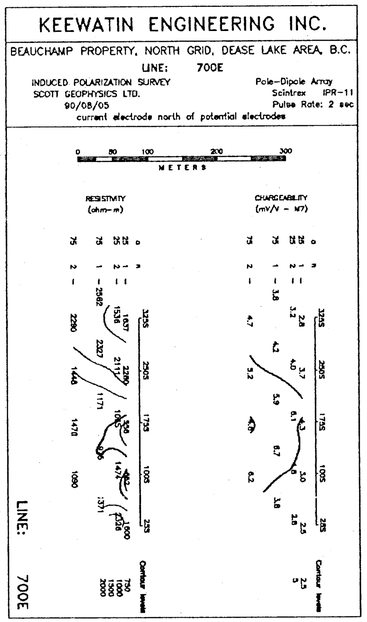
KEEWATIN ENGINEERING INC.

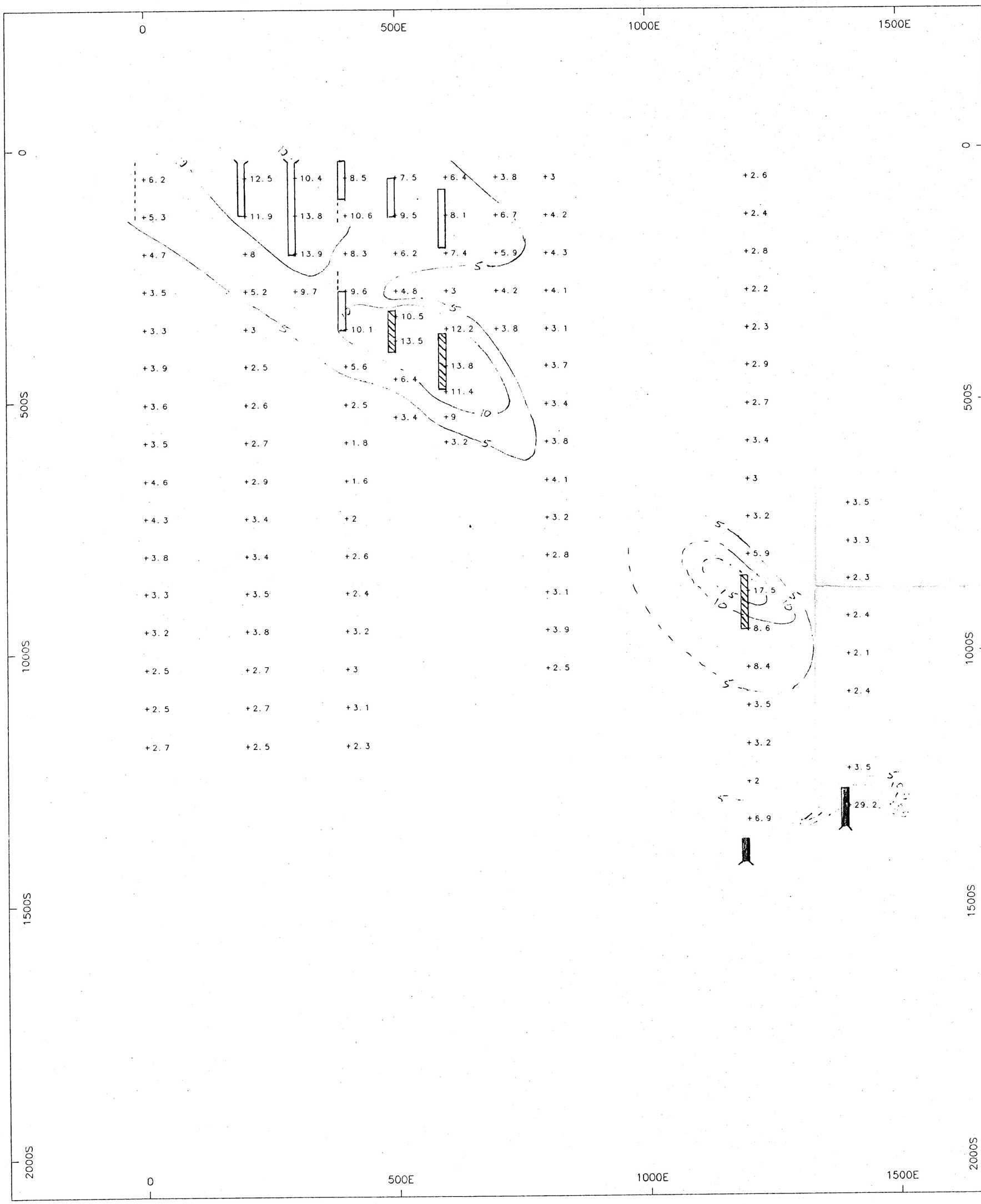
BEAUCHAMP PROPERTY, NORTH GRID, DEASE LAKE AREA, B.C.

LINE: 700E

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
90/08/05
current electrode north of potential electrodes

Pole-Dipole Array
Scintrex IPR-11
Pulse Rate: 2 sec





SURVEY SPECIFICATIONS

array	pole dipole
a spacing	25, 25, 75, 75
n separations	1, 2, 1, 2
current electrode	north of potentials
receiver	Scintrex IPR11
transmitter	Scintrex IPC7
pulse time	2 seconds
M7 receive window	690-1050 msecs
mid point	870 msecs

0 100 200 300 400

METERS

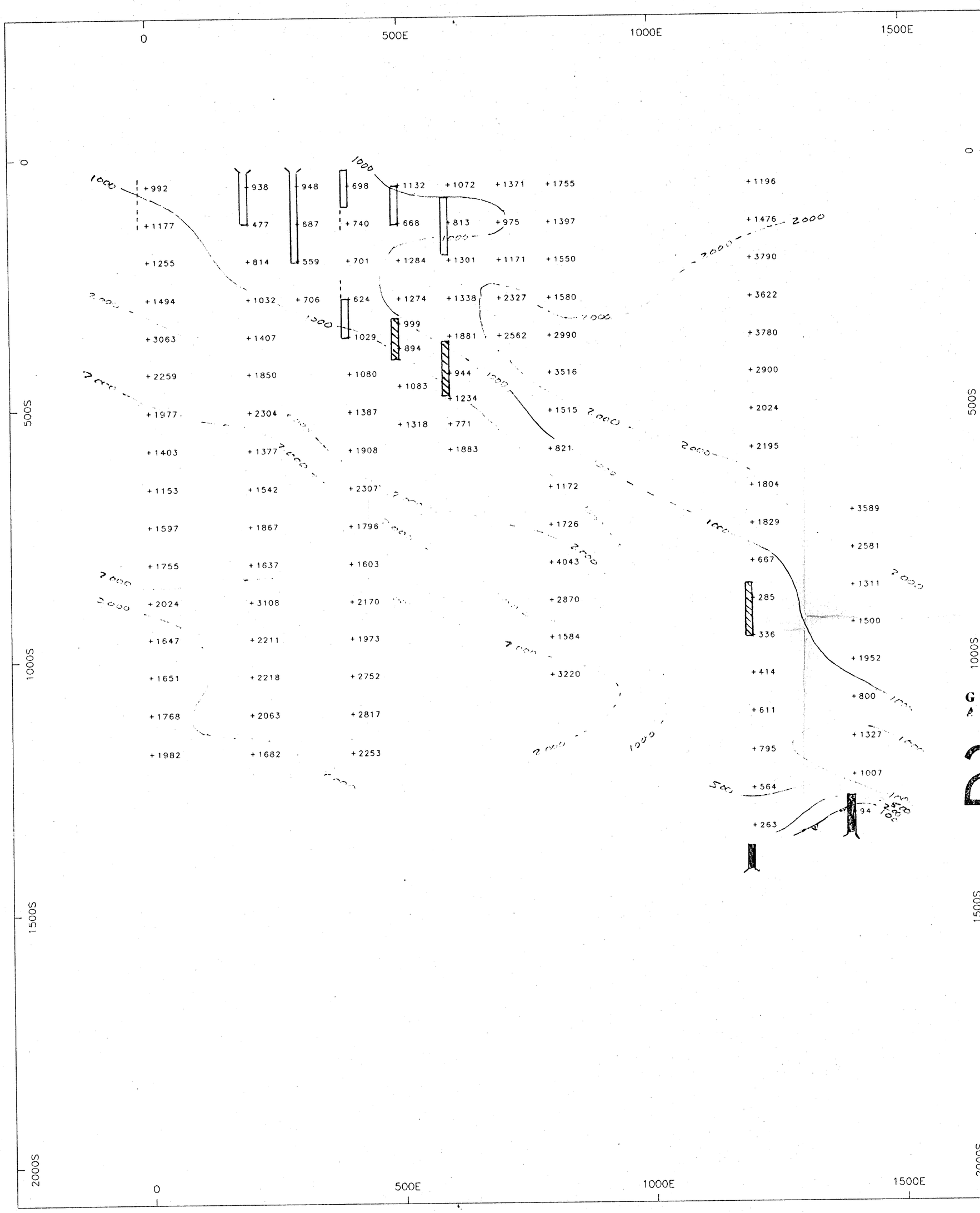
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY

DEASE LAKE AREA, B.C.
BEAUCHAMP NORTH GRID
CHARGEABILITY PLAN
a=75 meters/n=1

DRAWN BY: ars | DATE: January 13/91

SCOTT GEOPHYSICS LTD. MAP 11



SURVEY SPECIFICATIONS

array	pole dipole
a spacing	25, 25, 75, 75
n separations	1, 2, 1, 2
current electrode	north of potentials
receiver	Scintrex IPR11
transmitter	Scintrex IPC7
pulse time	2 seconds
M7 receive window	690-1050 msecs
mid point	870 msecs

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,128

0 100 200 300 400

METERS

KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY

DEASE LAKE AREA, B.C.
BEAUCHAMP NORTH GRID
RESISTIVITY PLAN
a=75 meters/n=1

DRAWN BY: ars | DATE: January 13/91

SCOTT GEOPHYSICS LTD. MAP 12

0 500E 1000E 1500E

0 500S 1000S 1500S 2000S

SURVEY SPECIFICATIONS

survey	magnetometer	EDA OMNI
base	magnetometer	EDA OMNI
type		proton
posted value		total field
units		gammas

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,128

0 100 200 300 400
METERS

KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY

DEASE LAKE AREA, B.C.
BEAUCHAMP NORTH GRID
MAGNETOMETER PLAN

DRAWN BY: ars | DATE: January 13/91

SCOTT GEOPHYSICS LTD. MAP 13

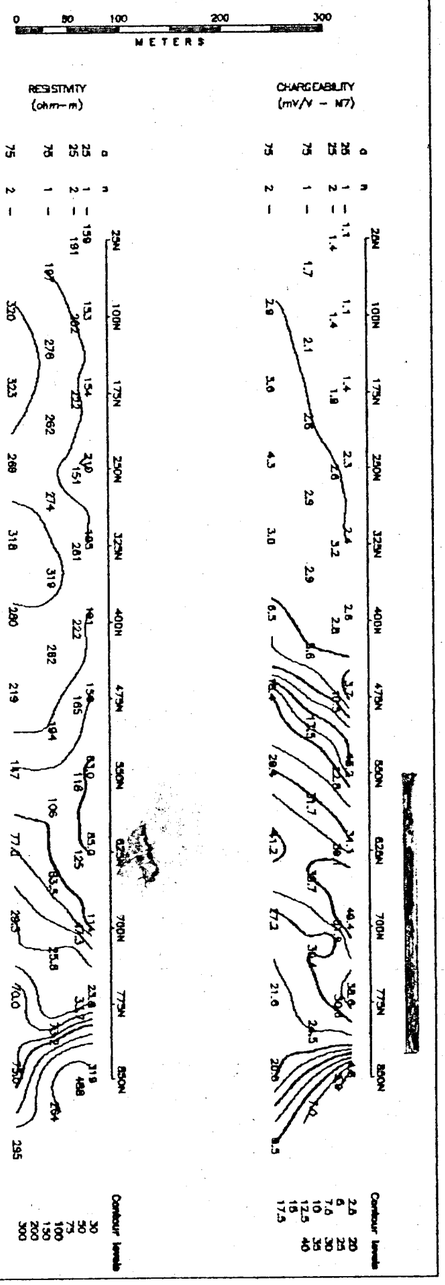
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY, SOUTH GRID, DEASE LAKE AREA, B.C.

LINE: 1600E

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
90/08/20
current electrode south of potential electrodes

Pole-Dipole Array
Scintrex IPR-11
Pulse Rate: 2 sec



LINE: 1600E

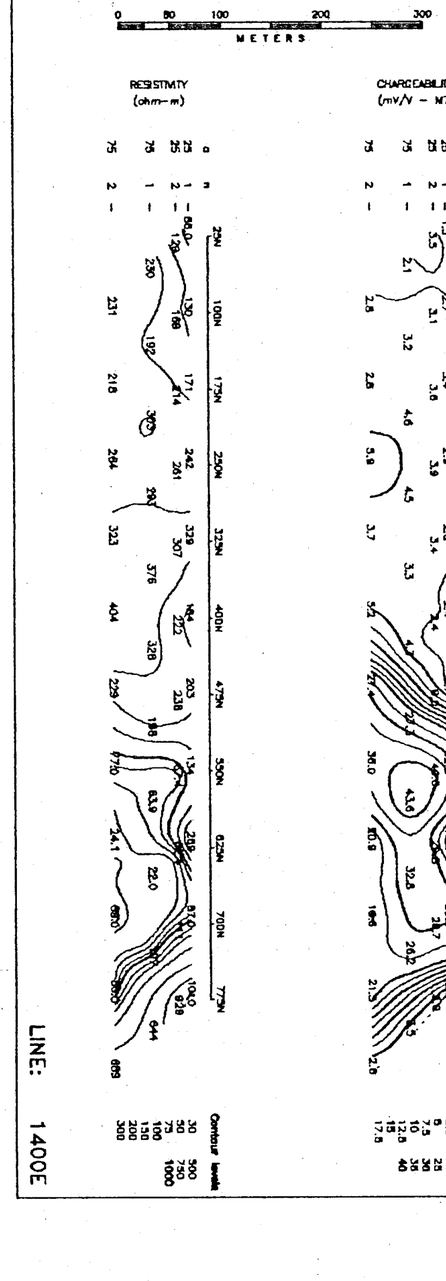
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY, SOUTH GRID, DEASE LAKE AREA, B.C.

LINE: 1400E

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
90/08/19
current electrode south of potential electrodes

Pole-Dipole Array
Scintrex IPR-11
Pulse Rate: 2 sec



LINE: 1400E

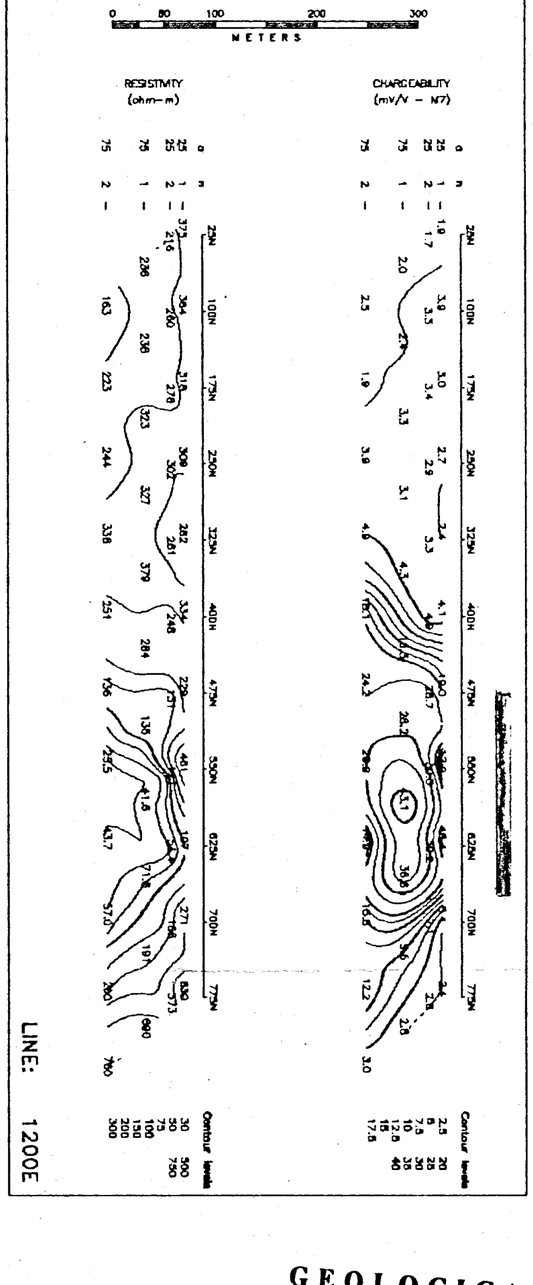
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY, SOUTH GRID, DEASE LAKE AREA, B.C.

LINE: 1200E

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
90/08/19
current electrode south of potential electrodes

Pole-Dipole Array
Scintrex IPR-11
Pulse Rate: 2 sec



LINE: 1200E

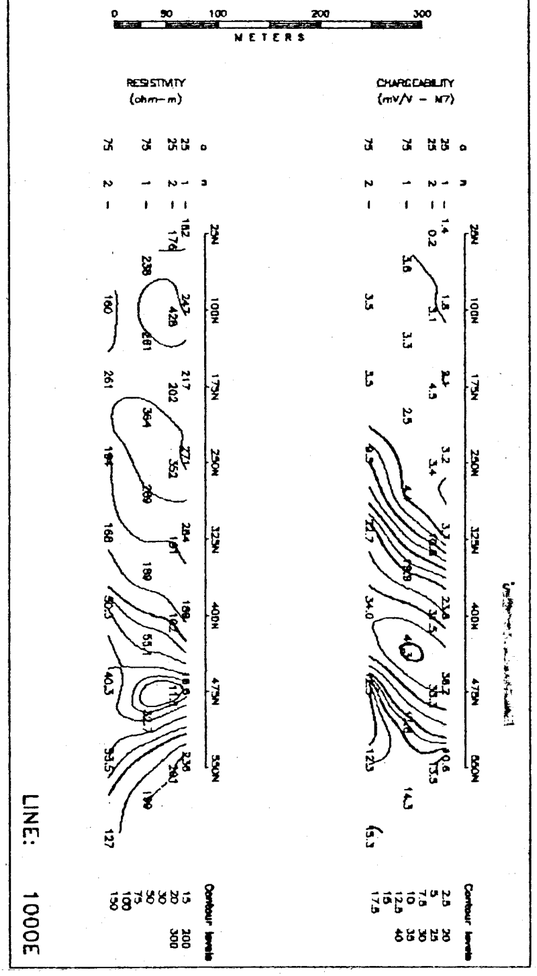
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY, SOUTH GRID, DEASE LAKE AREA, B.C.

LINE: 1000E

INDUCED POLARIZATION SURVEY
SCOTT GEOPHYSICS LTD.
90/08/21
current electrode south of potential electrodes

Pole-Dipole Array
Scintrex IPR-11
Pulse Rate: 2 sec



LINE: 1000E

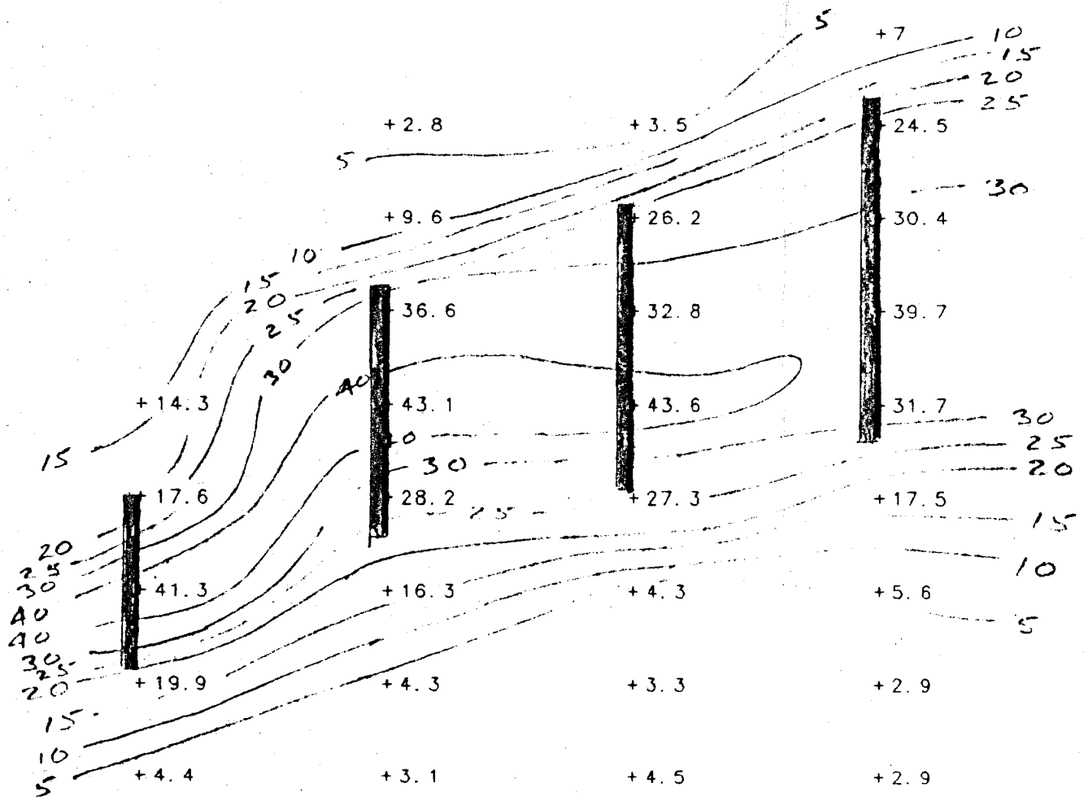
1000E

1500E

1000N

500N

0



SURVEY SPECIFICATIONS

array	pole dipole
a spacing	25, 25, 75, 75
n separations	1, 2, 1, 2
current electrode	south of potentials
receiver	Scintrex IPR11
transmitter	Scintrex IPC7
pulse time	2 seconds
M7 receive window	690–1050 msecs
mid point	870 msecs

0 100 200 300 400

METERS

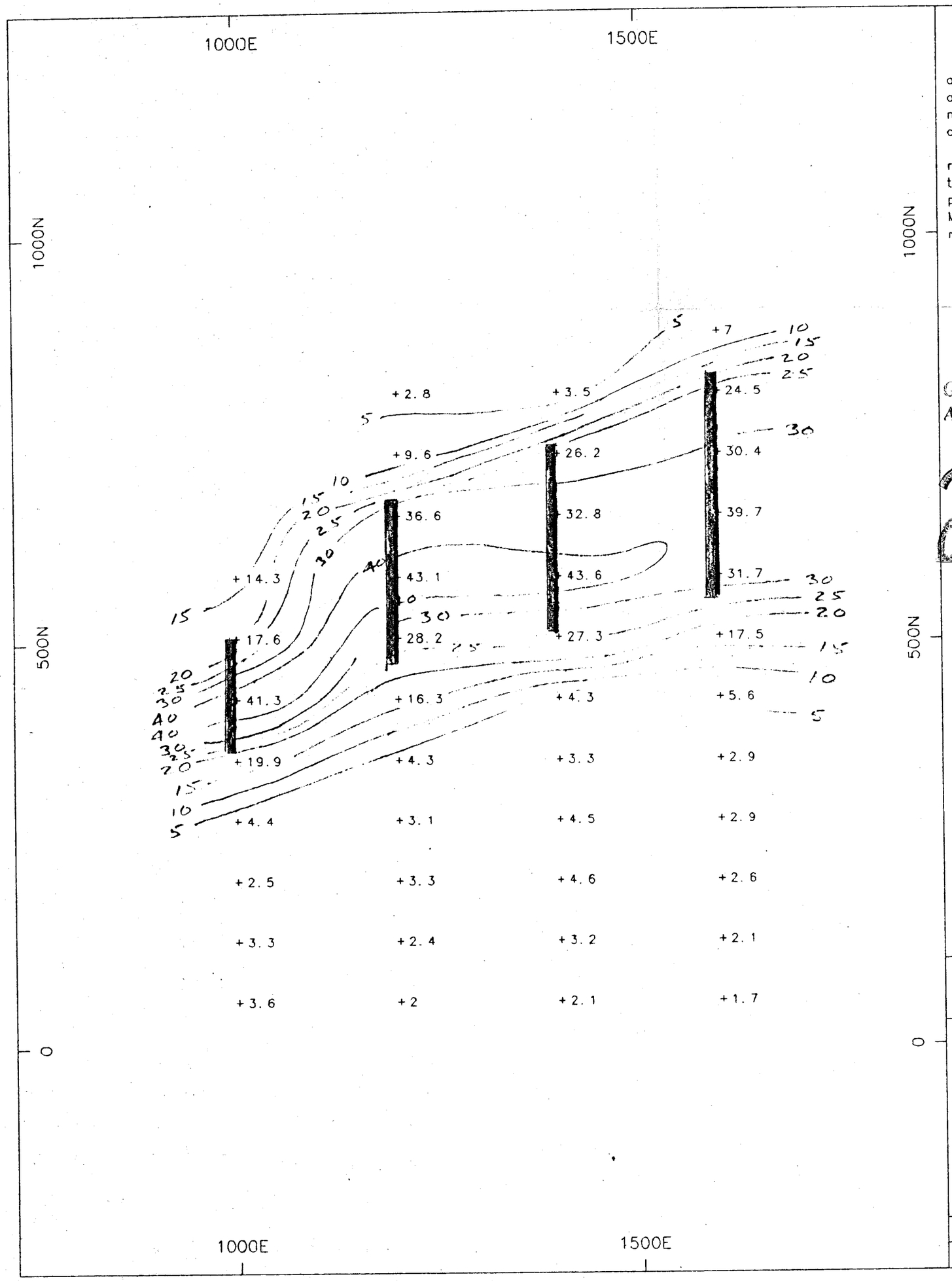
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY

DEASE LAKE AREA, B.C.
BEAUCHAMP SOUTH GRID
CHARGEABILIITY PLAN
a=75 meters/n=1

DRAWN BY: ars | DATE: January 13/91

SCOTT GEOPHYSICS LTD. MAP 15



SURVEY SPECIFICATIONS

array	pole dipole
a spacing	25, 25, 75, 75
n separations	1, 2, 1, 2
current electrode	south of potentials
receiver	Scintrex IPR11
transmitter	Scintrex IPC7
pulse time	2 seconds
M7 receive window	690–1050 msecs
mid point	870 msecs

0 100 200 300 400

METERS

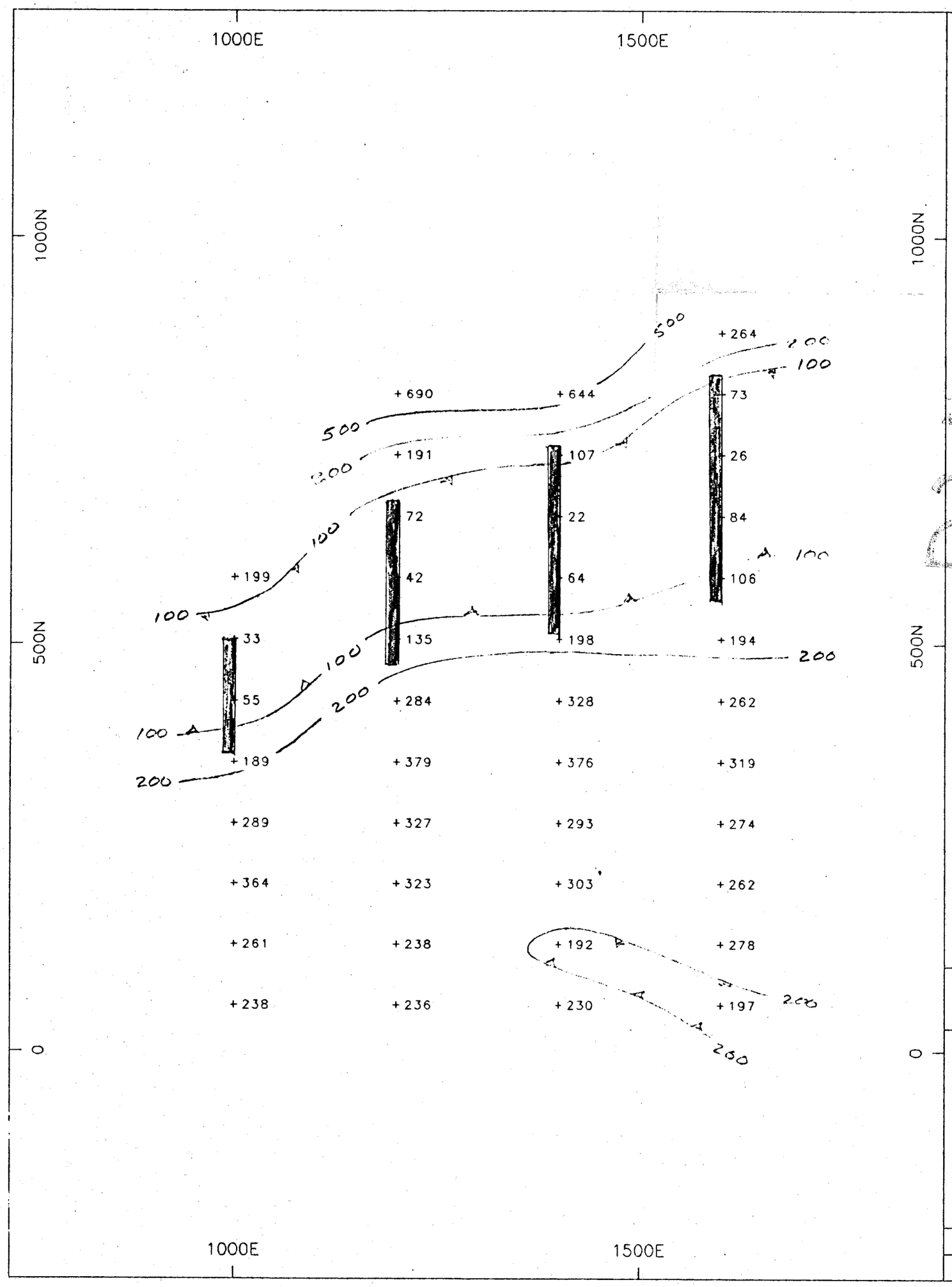
KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY

DEASE LAKE AREA, B.C.
BEAUCHAMP SOUTH GRID
CHARGEABILIITY PLAN
a=75 meters/n=1

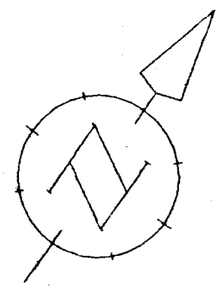
DRAWN BY: ars | DATE: January 13/91

SCOTT GEOPHYSICS LTD. MAP 15



SURVEY SPECIFICATIONS

array	pole dipole
a spacing	25, 25, 75, 75
n separations	1, 2, 1, 2
current electrode	south of potentials
receiver	Scintrex IPR11
transmitter	Scintrex IPC7
pulse time	2 seconds
M7 receive window	690–1050 msecs
mid point	870 msecs



0 100 200 300 400
METERS

KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY

DEASE LAKE AREA, B.C.
BEAUCHAMP SOUTH GRID
RESISTIVITY PLAN
a=75 meters/n=1

DRAWN BY: ars | DATE: January 13/91

SCOTT GEOPHYSICS LTD. MAP 16

1000E

1500E

1000N

500N

0

+57710
+57717
+57717
+57658
+57314
+57749
+57641
+57712
+57695
+57550
57632
57707
57739
57736
57633
57678
+57630
+57585
+57605
+57534
+57736
+57672
+57721
+57726
+57845
+58184
+58217

+57868
+57796
+57794
+57765
+57796
+57743
+57661
+57678
+57749
+57709
+57858
+57791
58027
57688
57761
57689
57958
57733
57691
57646
57708
+58027
+57625
+57774
+57678
+57757
+57578
+57659
+57772
+57688
+57745
+56452
+57699
+57659
+57889
+57138
+56768
+56900
+56661
+57812

+57930
+57713
+57712
+57686
+57711
+57710
+57717
+57723
+57720
+57713
57699
57699
57655
57680
57669
57672
57725
57731
+57748
+57726
+57729
+57727
+57724
+57746
+57738
+57737
+57738
+57732
+57729
+57766
+57755
+57756
+57773
+57759
+57792
+57829
+57884
+57852
+57854

+57740
+57746
+57805
+57781
+57812
+57807
+57734
+57712
+57712
57703
57782
57735
57732
57748
57727
57745
57741
57772
57749
57755
57742
+57745
+57757
+57799
+57780
+57758
+57783
+57785
+57740
+57788
+57771
+57741
+57727
+57750
+57733
+57765
+57795
+57805
+57847
+57909
+58036
+58121
+58108

58000
58000
57500
57000
57500
57000
58000
58000

SURVEY SPECIFICATIONS

survey	magnetometer	EDA OMNI
base	magnetometer	EDA OMNI
type		proton
posted value		total field
units		gammas

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,128

0 100 200 300 400

METERS

KEEWATIN ENGINEERING INC.

BEAUCHAMP PROPERTY

DEASE LAKE AREA, B.C.
BEAUCHAMP SOUTH GRID
MAGNETOMETER PLAN

DRAWN BY: ars	DATE: January 13/91
SCOTT GEOPHYSICS LTD.	MAP 17

MODERATE CHARGEABILITY

I.P. CHARGEABILITY ANOMALY
a = 75 metres
n = 1

COPPER SOIL ANOMALY → ≥ 150 ppm Cu

Feet above Sea level

4400

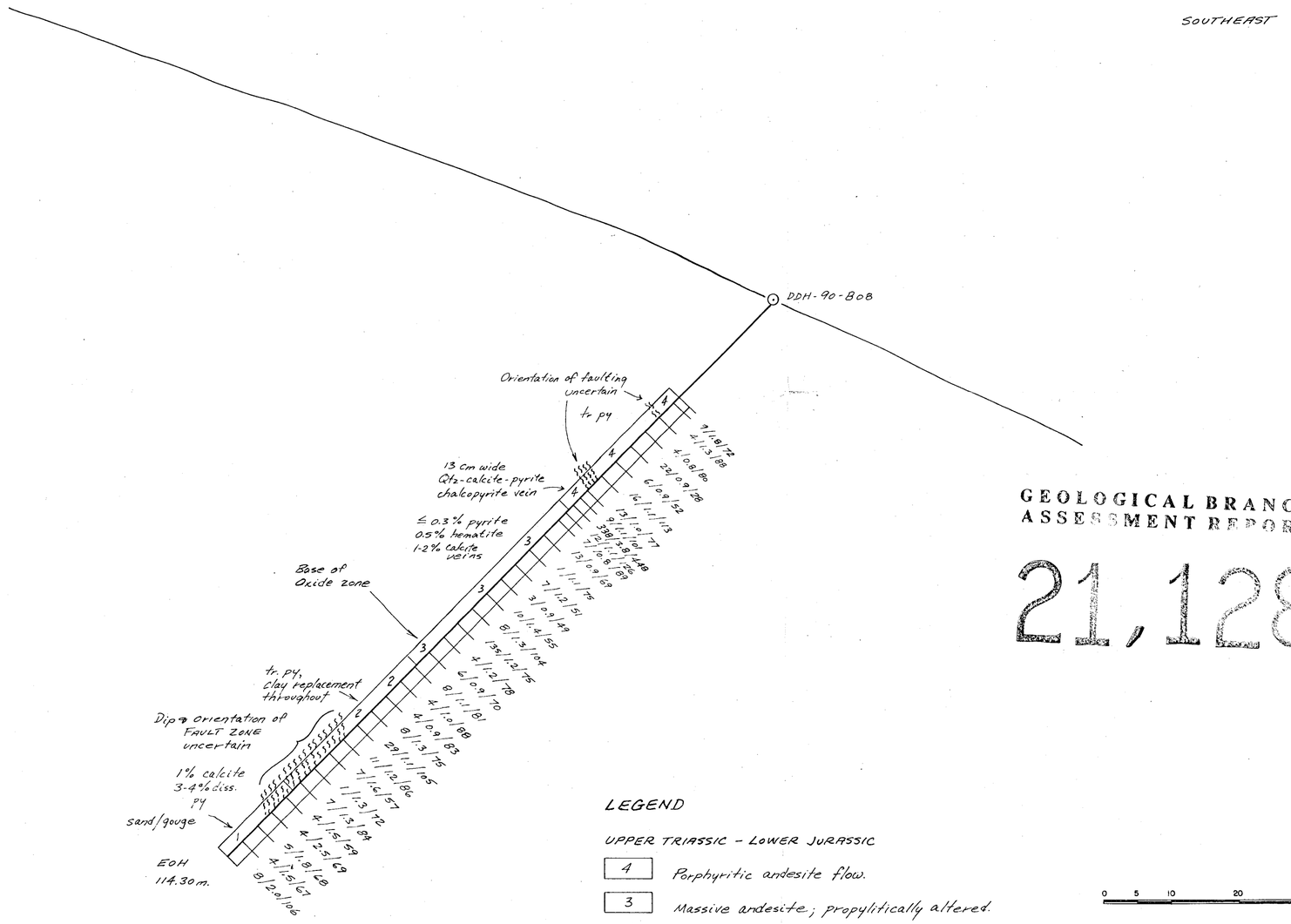
4300

4200

4100

NORTHWEST

SOUTHEAST



GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,128

LEGEND

UPPER TRIASSIC - LOWER JURASSIC

4 Porphyritic andesite flow.

3 Massive andesite; propylitically altered.

2 Bleached aphanitic, grey-brown, clay altered andesite flow (?)

1 Black, carbonaceous siltstone.

ROCK GEOCHEMISTRY RESULTS
ppb Au, ppm Ag, ppm Cu

Fault zone.

0 5 10 20 40 m.

ASCOT RESOURCES LTD.

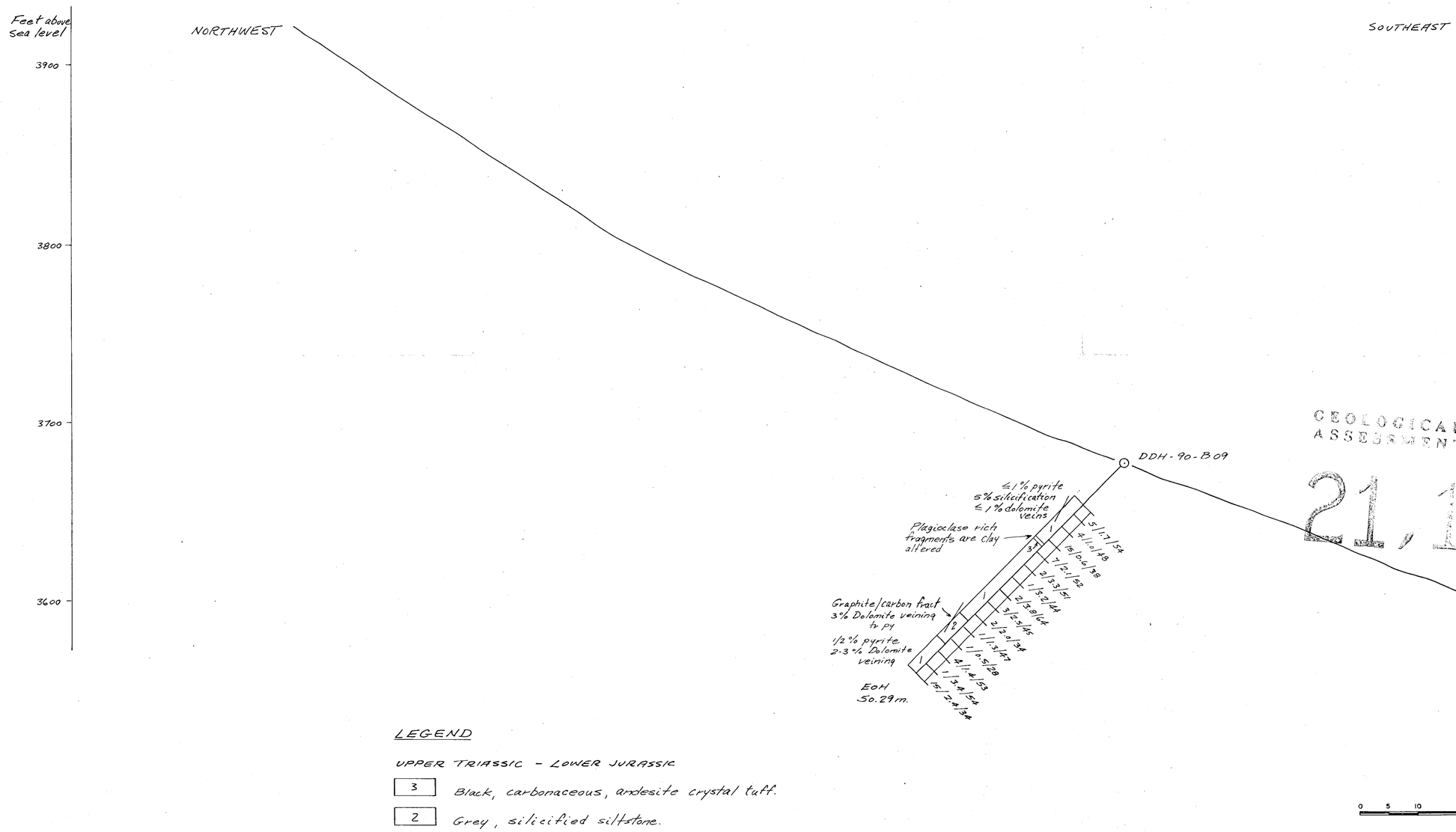
AXE CLAIMS — BEAUCHAMPS OPTION

CROSS-SECTION DDH-90 B08

Date: Jan. 30, 1991	N.T.S. 104 G/9E
Project: KLASTLINE	Project Geologist: D. Mehner
Scale: 1:500	
KEEWATIN ENGINEERING INC.	MAP No. 18

I.P. CHARGEABILITY ANOMALY
a = 75 metres n = 1

STRONG CHARGEABILITY



LEGEND

UPPER TRIASSIC - LOWER JURASSIC

3	Black, carbonaceous, andesite crystal tuff.
2	Grey, silicified siltstone.
1	Black, carbonaceous siltstone.

ROCK GEOCHEMISTRY RESULTS
ppb Au, ppm Ag, ppm Cu.

/ Bedding.

0 5 10 20 40 m.

ASCOT RESOURCES LTD.

AXE CLAIMS — BEAUCHAMPS OPTION

CROSS-SECTION DDH-90 B09

Date: Jan. 30, 1991	N.T.S. 104 G/9E
Project: KLASTLINE	Project Geologist: D. Mehner
Scale: 1:500	
KEEWATIN ENGINEERING INC.	MAP No. 19

COPPER SOIL ANOMALY
≥ 250 ppm Cu
≥ 150 ppm Cu
≥ 60 ppb Au
≥ 100 ppb Au
} GOLD SOIL ANOMALY

NORTH NORTHEAST

SOUTH SOUTHWEST

Feet above Sea level

4900
4800
4700
4600

DDH 90-B10

Intense pervasive clay altered zones

≤ 0.5% py

wk. limonite

Bedding

wk. limonite ≤ 0.5% py

calcite

≤ 5% fract. calcite

tr. py

EOH 103.33m.

3	1.2	146		
36	0.5	93		
130	0.8	162		
400	2.7	271	0.030	
2200	3.7	820	0.059	
3500	5.1	829	0.059	
122	2.2	77		
96	1.8	108		
4	1.8	195		
5	1.8	61		
2	1.8	97		
20	1.8	122		
1	0.7	68		
12	0.8	69		
1	1.1	96		
27	1.0	158		
64	1.4	181		
1	2.0	115		
422	1.8	101		
37	1.3	77		
2	0.8	79		
25	2.7	351		
8	2.9	98		
2	2.2	145		
1	1.2	85		
1	1.4	79		
8	2.3	90		
43	1.4	114		
31	3.5	106		
1	3.6	104		
2	3.2	95		
1	3.0	99		
1	3.0	83		

2200 ppb Au / 3.8 ppm Ag / 6.40 ppm Cu
9.0 metres

LEGEND

UPPER TRIASSIC - LOWER JURASSIC

3 — Green-grey greywacke interbedded with black siltstone.

2 — Breccia, chert & black siltstone fragments in grey greywacke.

1 — Green-grey greywacke; contains black siltstone fragments.

Rock GEOCHEMISTRY RESULTS
ppb Au, ppm Ag, ppm Cu. // oz./ton Au.

Bedding angles in Core.

Vein orientation in Core.

0 5 10 20 40 m.

ASCOT RESOURCES LTD.

AXE CLAIMS — BEAUCHAMPS OPTION

CROSS-SECTION DDH-90 B 10

Date: Jan. 30, 1991	N.T.S. 104 G/9E
Project: KLASTLINE	Project Geologist: D. Mehner
Scale: 1:500	
KEEWATIN ENGINEERING INC.	MAP No. 20

FALCONBRIDGE LTD.

NORTH GRID

SOUTH GRID

SENTRA CREEK AREA (see Map 4 1:50,000 blowup)

GJ PROPERTY

GROAT CREEK

BOND AREA (see blowup maps - 2 at 1:3000, 3 at 1:300) SHOWING

BOND CREEK

CAMP

AXE 210 AXE 211 AXE 212 AXE 213

AXE 214 AXE 215 AXE 216 AXE 217

AXE 28 AXE 27

AXE 5 AXE 6

old AXE 47 old AXE 48 old AXE 38 old AXE 37

old AXE 35 old AXE 36 old AXE 25

130°15'

57°37'

5100 5500 5345 5455 3700 3500 5020 5320 4000 4600 4300 5200 3900 5400 5000

GEOLOGICAL BRANCH ASSESSMENT REPORT

21,128

0 250 500 1000 m.

ROCK GEOCHEMISTRY

Sample No.	Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Hg ppb	Sb ppm	Mo ppm
VR-1	1	2.4	131	16	21	16	55	1	3
VR-2	92	2.6	439	22	22	2	25	1	1
VR-3	3	3.5	648	1	10	5	10	1	1
VR-4	13	3.8	485	137	88	806	310	13	1
FR-15	1	1.7	126	29	28	77	70	1	1
FR-16	2	1.6	72	23	27	71	45	1	1
FR-17	2	5.3	6714	1	28	34	610	10	1
UR-01	172	2.8	90	1	34	55	95	1	95
UR-02	245	3.5	123	11,485	302	649	245	162	245
UR-03	725	2.3	359	32	26	42	55	4	4
UR-10	46	5.6	165	387	822	940	870	12	3
UR-11	12	4.2	1,647	37	64	837	2,000	7	5
UR-12	46	0.2	53	53	215	156	230	1	3
UR-13	2	0.2	8	153	54	148	5,375	7	35
XR-1	1	0.1	84	1	30	335	5	1	1
XR-2	70	5.3	1,118	24	271	263	65	1	1
XR-3	606	2.1	768	120	111	77	15	3	1
XR-4	176	1.2	247	10	22	3	35	1	1
XR-5	7	3.7	1,592	1	11	29	40	1	1
XR-6	29	4.4	260	1	10	1	45	1	51
XR-7	2	2.7	766	6	24	1	65	1	1

Sample No.	Au ppb	Ag ppm	Cu ppm	As ppm	Pb ppm	Zn ppm	Hg ppb	Sb ppm	Mo ppm
XR-8	1	0.7	9	65	56	84	105	1	9
XR-9	1	0.6	9	178	94	52	270	3	73
XR-10	2	2.3	63	1	17	19	5	1	1
XR-11	1	1.8	45	19	23	1	15	1	1
XR-12	1	1.9	60	1	12	18	110	1	1
XR-13	3	2.4	25	34	22	3	315	3	9
OR-1	1,380	23.7	296	155	238	88	160	9	1
OR-2	626	0.1	353	284	16	14	15	1	2
OR-3	9,000	6.4	1,459	151	7	1	55	4	1
OR-4	1,050	0.9	91	30	17	1	50	1	3
OR-5	212	1.9	20	4	15	28	55	1	1
OR-6	6	0.3	4	7	27	63	240	1	3
OR-7	1	3.0	298	10	19	1	60	1	1
OR-8	4	2.3	74	24	33	34	110	2	1
OR-9	3	0.9	11	17	12	2	35	1	2
OR-10	8	1.6	650	139	56	254	490	95	1
OR-11	2	0.7	50	267	56	13	1,995	13	12
OR-12	2	0.8	32	229	44	45	4,125	6	29
YR-1	2	2.4	125	1	37	75	155	1	2
YR-2	1	0.4	11	23	27	49	70	1	6
YR-3	2	0.4	10	10	22	49	75	1	4
YR-4	2	2.6	12	1	22	89	50	1	1
YR-5	3	2.6	11	1	19	94	130	1	1
YR-6	3	3.5	22	1	28	88	170	1	1
YR-7	2	3.1	24	1	31	91	130	1	1

Base map is blow-up of 1:50,000 Government topographic map ; Ground control by compass, topochain and altimeter .

LEGEND

TERTIARY

7 Basalt and olivine basalt flows.

UPPER CRETACEOUS TO LOWER TERTIARY

6 Rhyolite ; massive and flow banded.

UPPER TRIASSIC TO LOWER JURASSIC

5 Diorite.

4 Andesite agglomerate.

3 Augite porphyry andesite flows.

2 Andesite flows.

1 Greywacke , siltstone , minor pebble conglomerate and minor chert , includes carbonaceous sections.

SYMBOLS

Outcrop.

Geological contact (assumed).

Fault (assumed).

× YR-07 Rock sample (90-Y-153R-07).

⊗ UR-02 Rock float sample.

Bedding ; strike, dip.

Vein ; strike, dip.

Joints.

I.P. CHARGEABILITY ANOMALIES

Strong chargeability.

Moderate chargeability.

Weak chargeability.

Weak, poorly defined chargeability.

As plotted
o = 75 metres
n = 1

ASCOT RESOURCES LTD.

AXE CLAIMS - BEAUCHAMPS OPTION

GEOLOGY & ROCK GEOCHEMISTRY

DATE: Nov. 9, 1990	NTS: 104G/9E,W
PROJECT: KLASTLINE PLATEAU	PROJ. GEOL.: D. Mehner
SCALE: 1:10,000	
Keewatin Engineering Inc.	MAP No. 1