

LOG NO: 12-07	RD.
ACTION:	
FILE NO:	

**ASSESSMENT REPORT**  
**ON GEOLOGICAL MAPPING, PROSPECTING,**  
**ROCK, SOIL AND STREAM SAMPLING**  
**OF THE BURR 1-4 CLAIM GROUP**  
**Liard Mining Division, British Columbia**

**NTS 104G/1W**  
**Latitude: 57° 03'N**  
**Longitude: 130° 23'W**

for

**STOW RESOURCES LTD.**  
 Vancouver, B.C.

by

**Martin G. Bobyn, B.Sc.**  
**KEEWATIN ENGINEERING INC.**  
 800 - 900 West Hastings Street  
 Vancouver, B.C.  
 V6C 1E5

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GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

20,593

December 3, 1990

Keewatin Engineering Inc.

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## **INTRODUCTION**

The Burr claims are located in the Stikine area of northwestern British Columbia approximately 125 km north of Stewart, B.C. They were originally staked to cover favourable geology believed to be equivalent to Eskay Creek type stratigraphy. The property consists of four contiguous mineral claims totalling 61 units.

Between May and July of 1990, Keewatin Engineering Inc. was contracted by Stow Resources Ltd. of Vancouver, B.C. to conduct a reconnaissance exploration program on the Burr claims. This program involved rock, soil and stream sampling in addition to geological mapping and prospecting. A total of 52 rocks, 295 soils and 44 silts and 3 heavy mineral samples were collected and submitted to Min-En Labs in Vancouver for Au + 8 element I.C.P. analysis.

A base camp was established along the Stewart-Cassiar Highway in Bob Quinn and access to the property was provided by a Hughes 500 helicopter. Field work was carried out by E. Olfert, M. Bobyn and J. Miller (geologists); M. Skeoch and B. McIntyre (prospectors); T. Shepard and C. Kauss (samplers).

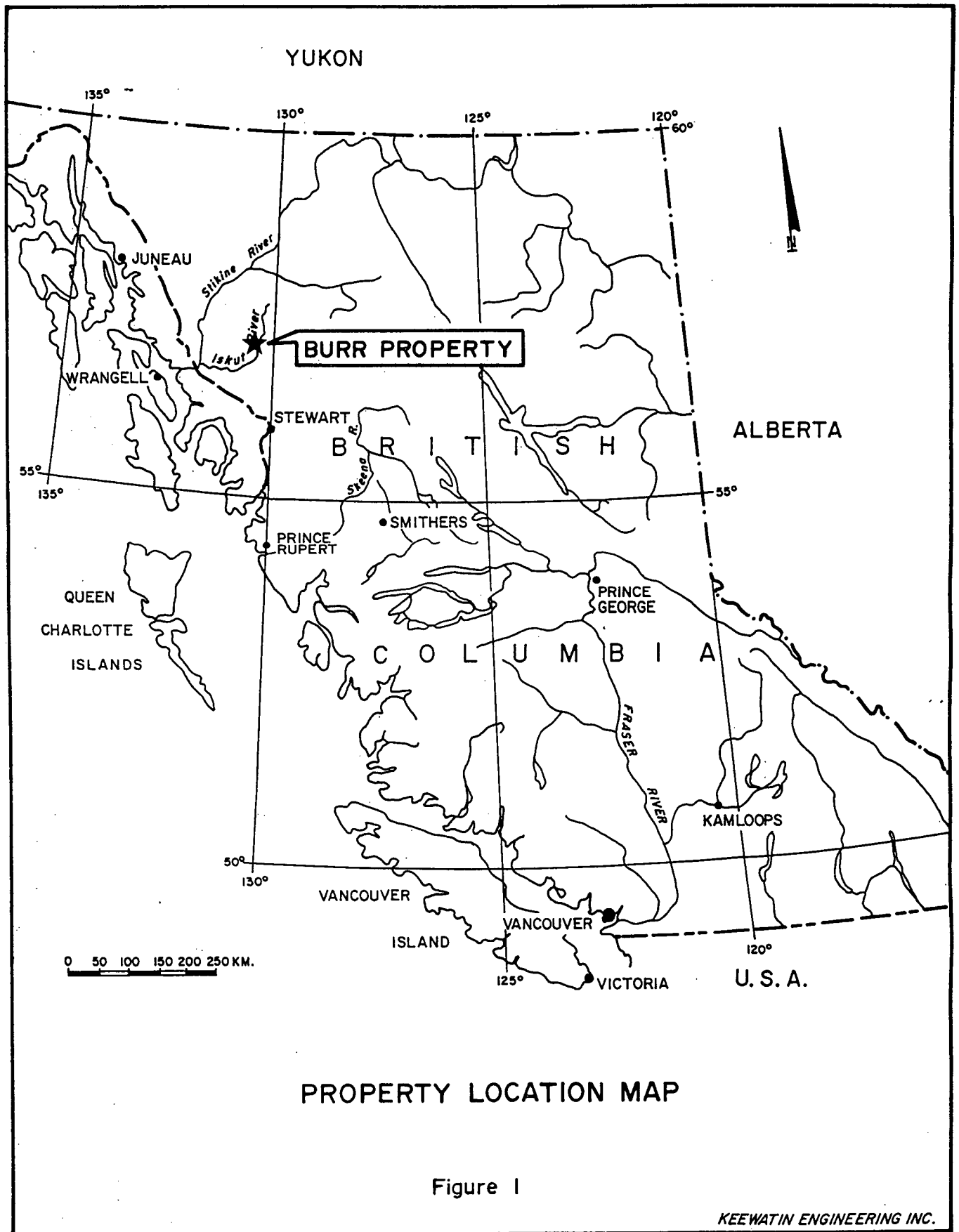
### **Location and Access**

The Burr claims are located in the Stikine area of northwestern British Columbia approximately 125 km north of Stewart, B.C. at the confluence of the Iskut River and More Creek (Figure 1). They are centred at about 57° 03' North latitude and 130° 23' West longitude within the Liard Mining Division on NTS map sheet 104G/1W.

Access to the property is via helicopter from Bob Quinn, 11 km to the east, where Vancouver Island Helicopters Ltd. maintains a base. Bob Quinn is situated along the Stewart-Cassiar Highway and can be reached from either Smithers or Terrace by regular scheduled flights.

### **Topography**

The Burr claims cover mountainous terrain with moderate to steep slopes rising from the Iskut River and More Creek. Near vertical cliffs exceeding 1,000 feet along the More Creek gorge provide excellent exposure. Elevation varies between 1,400 to 4,500 feet.



**PROPERTY LOCATION MAP**

Figure 1

The entire property is below treeline. The vegetation consists of dense spruce and alder below the 4,000 foot level with sub-alpine scrub above. Stream gulleys are thickly overgrown with devil's club and low lying shrubs.

### Property and Ownership

The Burr property is located within the Liard Mining Division and consists of four contiguous mineral claims totalling 61 units (Figure 2). They are owned 100% by Stow Resources Ltd. with offices at 800 - 900 West Hastings Street, Vancouver, B.C., V6C 1E5.

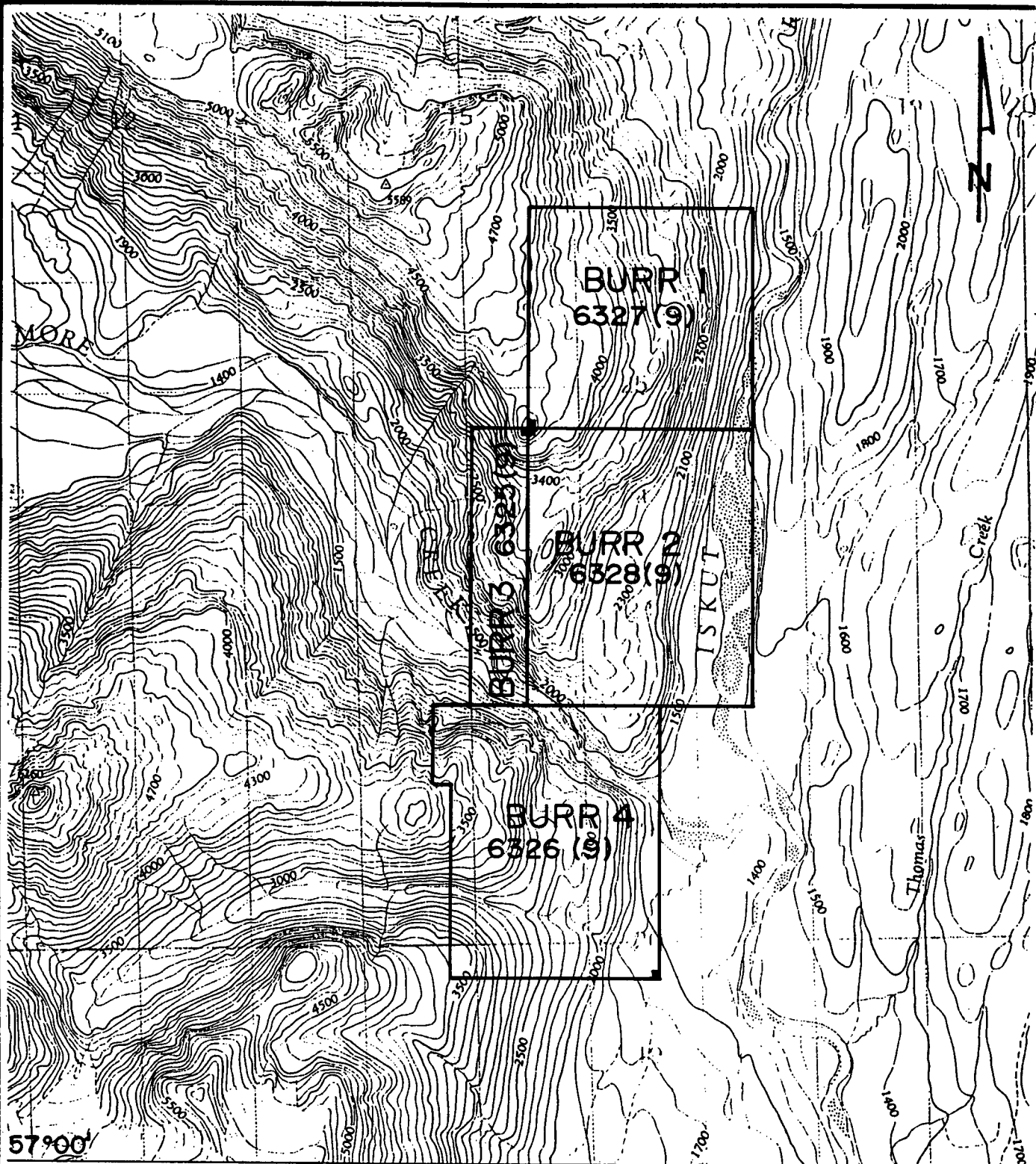
Claim Name	No. of Units	Record No.	Date Recorded	Expiry Date*
Burr 1	16	6326	September 7, 1990	September 7, 1994
Burr 2	20	6328	September 7, 1990	September 7, 1994
Burr 3	5	6325	September 7, 1990	September 7, 1994
Burr 4	20	6327	September 7, 1990	September 7, 1994
<b>Total:</b>	<b>61</b>			

- Upon submission of this assessment report to the Mining Recorder.

### Previous Work

There is an industrial mineral (calcite) showing located on the western margin of the Burr 3 claim. It is listed in the Minfile as #104G 104 and consists of a fossiliferous, stratiform limestone bed. The showing was not visited by the writer. A review of the assessment files indicates that there has been no previously recorded work on the area presently covered by the Burr claims.

Within the immediate area, there is presently active exploration with several recent discoveries being made. On the GOZ-RDN project, 15 km to the west, Noranda and High Frontier have completed a 15 hole diamond drill program designed to test the source of a boulder train with Eskay Creek style of mineralization. DDH 90-7 intersected 7.85 m of 0.23 oz/ton gold including a 4.4 m section of 0.34 oz/ton gold. On the Forgold claim group, which adjoins the GOZ-RDN property to the south, Santa Marina Gold Ltd. has discovered polymetallic mineralization in float and outcrop. Grab samples have returned values of up to 3.27 oz/ton gold. Little is known, however, about the geology or extent of mineralization.



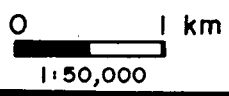
11 12 130°25' 130°20'

NTS 104G/IW

■ Legal corner post (LCP)

**CLAIM MAP**

Figure 2



The area has been assessed by B.C. Hydro for its hydroelectric potential as part of their early 1980's Iskut River study. Several survey targets and old helicopter pads are situated above the More Creek gorge. A cable crosses More Creek on the upper end of the gorge.

## GEOLOGY

### Regional Geology

The Burr property lies within the Intermontane Tectono-Stratigraphic Belt, one of five parallel northwest-southeast trending belts that comprise the Canadian Cordillera. It is bound to the west by the Coast plutonic complex and to the east by unmetamorphosed sediments of the Bowser Basin (Figure 3). The area has been mapped by J. Souther (1972) and P. Read et al. (1990) for the Geological Survey of Canada.

The area is predominantly underlain by Upper Triassic rocks of the Stuhini Group (Read et al., 1990). It forms a thick succession of sedimentary and overlying volcanic rock units. The sediments range from fine shales and argillites to coarse greywackes and conglomerates. Thin beds of fossiliferous limestone are common. The volcanic rocks are comprised of flows, tuffs and breccias of andesitic composition. They are fine-grained, dark green to maroon and often contain small feldspar phenocrysts.

There is some confusion as to the age of the felsic rocks in the area, which tend to form tabular bodies with a north-south orientation. Souther has mapped these as Late Cretaceous to Early Tertiary aged felsites and rhyolites of the Sustut Group. Read et al. (1990) believe them to be feeder systems to felsic volcanism of Early Jurassic time. East of the Iskut River, Middle to Upper Jurassic sediments of the Bowser Group form low linear north trending ridges.

A large fault, the Iskut River Fault, parallels the Iskut River and separates the Bowser Basin sediments from the Stuhini Group to the west.

### Property Geology

The Burr property is predominantly underlain by felsic intrusives of Early Jurassic age. They form large north-south trending bluffs and ridges. The felsites are generally fine grained, massive, light grey to light green and contain rounded quartz eyes to 3 mm diameter. They contain up to 3%

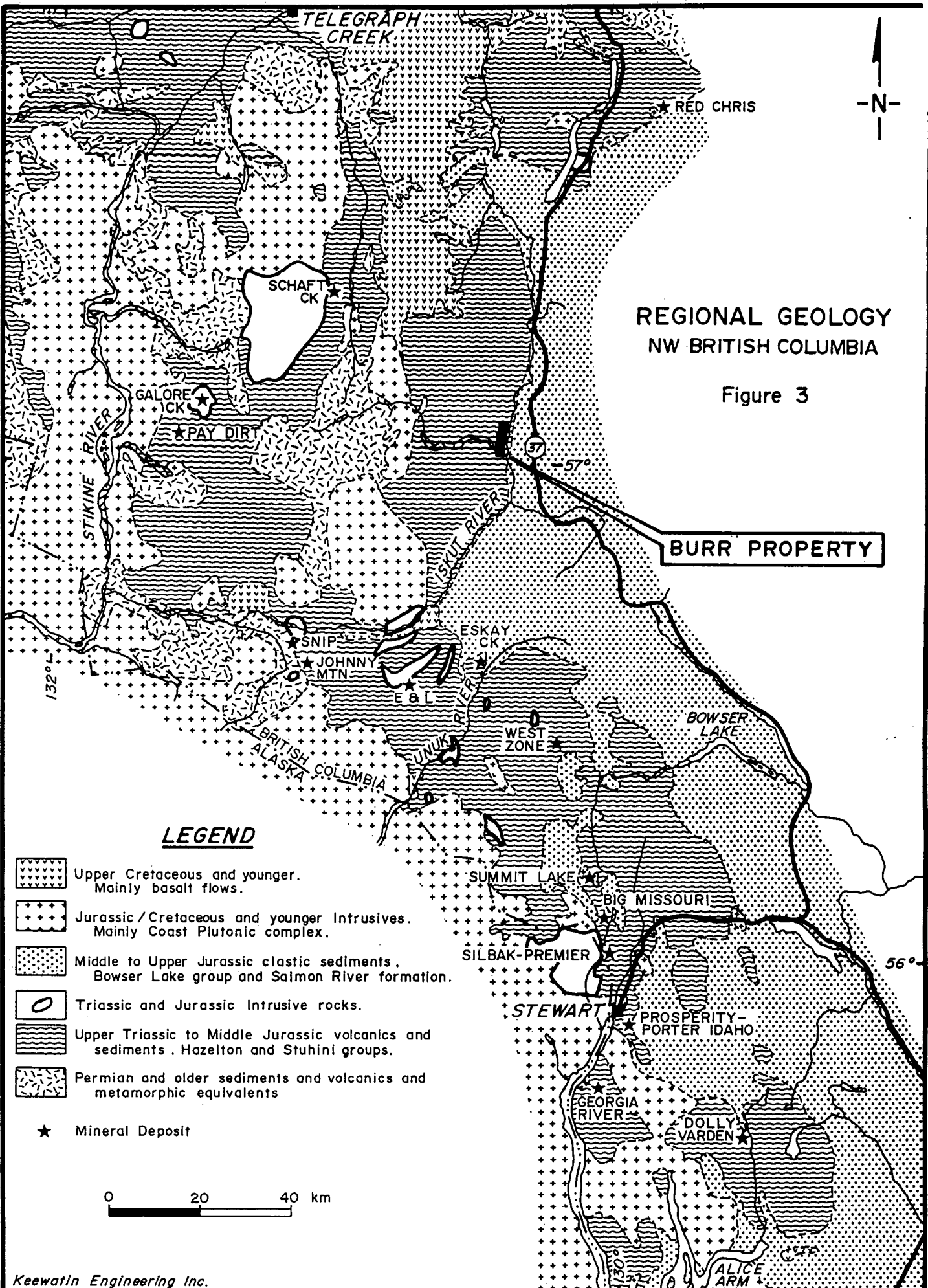










# REGIONAL GEOLOGY NW BRITISH COLUMBIA

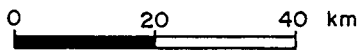
Figure 3

**BURR PROPERTY**



## 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



disseminated cubic pyrite and weather to a characteristic deep red colour gossan. Narrow chalcedonic quartz veins to 5 cm in width were noted on the gossaned cliffs on the Burr 2 claim.

Upper Triassic volcanic rocks of the Stuhini Group form a thin wedge across the More Creek gorge. This may represent a roof pendant, however, contacts were not seen in outcrop. This unit is also exposed on the extreme northwest and southwest property margins. The volcanic rocks are comprised of undifferentiated andesitic flows and tuffs with minor interbedded volcanoclastic sediments. They are generally fine-grained, dark green, feldspar-phyric and weakly chloritized.

Upper Triassic sedimentary rocks of the Stuhini Group are in fault contact with the felsites north of More Creek on the Burr 3 claim. This unit is made up of well bedded siltstones, greywackes and conglomerates with lenses and pods of limestone. Discontinuous, concordant carbonate pods to 1 metre in width contain up to 2-3% pyrite.

### GEOCHEMISTRY

Between May and July of 1990, a total of 52 rocks, 295 soils, 44 silts and 3 heavy mineral samples were collected on the Burr property. All samples were sent to Min-En Labs Ltd. in Smithers, B.C. for preparation and forwarded to Min-En Labs Ltd. in Vancouver for Au + 8 element ICP analysis.

Analytical procedures included:

#### Au

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

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

Samples are aspirated on an atomic absorption spectrometer with a suitable set of standard solutions.

**Cu, Pb, Zn, Ag, As, Sb, Mo**

After drying the samples at 95°C, soil and stream sediment samples are screened by an 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 2 hours with an aqua regia mixture. After cooling samples are diluted to standard volumes.

The solutions are analyzed by computer operated Jarrall Ash 900 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers.

**Hg**

After drying the samples @ 30°C, soil, and stream sediment samples are screened by an 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 2 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.

**Rock Geochemistry**

A descriptive summary of the rock samples collected is outlined in Appendix III.

<b>Gold:</b>	Range 1-46 ppb; Mean 3 ppb; Median 24.5 ppb
	Samples $\geq 10$ ppb Au:
	90 X 166 R012                      21 ppb Au
	90 X 166 R013                      46 ppb Au

<b>Copper:</b>	Range 1-138 ppm; Mean 23 ppm; Median 70 ppm
	Samples $\geq$ 100 ppm Cu:
	90 V 166 R001                      102 ppm Cu
	90 V 166 R002                      101 ppm Cu
	90 X 166 R002                      138 ppm Cu
<b>Lead:</b>	Range 1-56 ppm, Mean 19.5 ppm; Median 28.5 ppm
	No samples $\geq$ 100 ppm Pb:
<b>Zinc:</b>	Range 1-360 ppm; Mean 56 ppm; Median 180 ppm
	Samples $\geq$ 200 ppm Zn:
	90 F 166 R017                      360 ppm Zn
<b>Silver:</b>	Range 0.1 - 4.1 ppm; Mean 1.1 ppm; Median 2.1 ppm
	Samples $\geq$ 3.0 ppm Ag:
	90 X 166 R005                      3.0 ppm Ag
	90 X 166 R012                      4.1 ppm Ag
	90 X 166 R013                      3.6 ppm Ag
	90 X 166 R014                      3.1 ppm Ag
<b>Arsenic:</b>	Range 1-333 ppm; Mean 40 ppm; Median 167 ppm
	Samples $\geq$ 100 ppm As:
	90 F 166 R013                      108 ppm As
	90 F 166 R017                      245 ppm As
	90 O 166 R004                      333 ppm As
	90 X 166 R013                      192 ppm As
<b>Antimony:</b>	Range 1-21 ppm; Mean 3 ppm; Median 11 ppm
	Samples $\geq$ 20 ppm Sb:
	90 F 166 R013                      21 ppm Sb
<b>Molybdenum:</b>	Range 1-30 ppm; Mean 4 ppm; Median 16 ppm
	Samples $\geq$ 15 ppm Mo:
	90 F 166 R005                      22 ppm Mo
	90 OO 166 R005                      30 ppm Mo

**Mercury:** Range 5-4,250 ppb; Mean 332 ppb; Median 2,128 ppb  
 Samples  $\geq 1000$  ppb Hg:  
 90 F 166 R013 4,250 ppb Hg  
 90 X 166 R013 1,035 ppb Hg

### Silt Geochemistry

A descriptive summary of the silt samples collected is outlined in Appendix III.

**Gold:** Range 1-10 ppb; Mean 2.2 ppb; Median 5.5 ppb  
 Samples  $\geq 10$  ppb Au:  
 90 F 166 L005 10 ppb Au

**Copper:** Range 13-114 ppm; Mean 49 ppm; Median 52 ppm  
 Samples  $\geq 100$  ppm Cu:  
 90 OO 166 L002 112 ppm Cu  
 90 OO 166 L003 102 ppm Cu  
 90 OO 166 L004 114 ppm Cu  
 90 OO 166 L005 105 ppm Cu  
 90 X 166 L010 102 ppm Cu

**Lead:** Range 9-102 ppm; Mean 21 ppm, Median 56 ppm  
 Samples  $\geq 100$  ppm Pb:  
 90 Y 166 L004 102 ppm Pb

**Zinc:** Range 23-291 ppm; Mean 107 ppm; Median 157 ppm  
 Samples  $\geq 200$  ppm Zn:  
 90 X 166 L010 291 ppm Zn

**Silver:** Range 0.3-3.0 ppm; Mean 1.1 ppm; Median 1.7 ppm  
 Samples  $\geq 3.0$  ppm Ag:  
 90 Y 166 L004 3.0 ppm Ag

<b>Arsenic:</b>	Range 1-27 ppm; Mean 5.5 ppm; Median 14 ppm
	Samples $\geq 20$ ppm As:
	90 Y 166 L004                      27 ppm As
<b>Antimony:</b>	Range 1-9 ppm; Mean 1.4 ppm; Median 5 ppm
	Samples $\geq 5$ ppm Sb:
	90 Y 166 L004                      9 ppm Sb
<b>Molybdenum:</b>	Range 1-10 ppm; Mean 2.5 ppm; Median 5.5 ppm
	No samples $\geq 20$ ppm Mo:
<b>Mercury:</b>	Range 70-895 ppb; Mean 231 ppb; Median 483 ppb
	Samples $\geq 500$ ppb Hg:
	90 OO 166 L006                      895 ppb Hg

### Soil Geochemistry

A descriptive summary of the soil samples collected is outlined in Appendix III.

<b>Gold:</b>	Range 1-26 ppb; Mean 1.7 ppb; Median 13.5 ppb
	Samples $\geq 10$ ppb Au:
	90 Y 166 S110                      26 ppb Au
<b>Copper:</b>	Range 5-144 ppm; Mean 35 ppm; Median 75 ppm
	Samples $\geq 100$ ppm Cu:
	90 V 166 S031                      122 ppm Cu
	90 X 166 S018                      144 ppm Cu
	90 X 166 S050                      101 ppm Cu
	90 X 166 S051                      106 ppm Cu
	90 U 166 S055                      129 ppm Cu
<b>Lead:</b>	Range 4-100 ppm; Mean 16 ppm; Median 52 ppm
	Samples $\geq 100$ ppm Pb:
	90 Y 166 S045                      100 ppm Pb

<b>Zinc:</b>	Range 12-495 ppm; Mean 96 ppm; Median 254 ppm
	Samples $\geq 300$ ppm Zn:
	90 Y 166 S138                      344 ppm Zn
	90 Y 166 S024                      495 ppm Zn
<b>Silver:</b>	Range 0.1-2.9 ppm; Mean 0.9 ppm; Median 1.5 ppm
	No samples $\geq 3$ ppm Ag.
<b>Arsenic:</b>	Range 1-56 ppm; Mean 5 ppm; Median 29 ppm
	Samples $\geq 50$ ppm As:
	90 OO 166 S002                      56 ppm As
	90 OO 166 S001                      56 ppm As
	90 Y 166 S110                        53 ppm As
<b>Antimony:</b>	Range 1-20 ppm; Mean 1.4 ppm; Median 10.5 ppm
	Samples $\geq 10$ ppm Sb:
	90 Y 166 S001                        10 ppm Sb
	90 Y 166 S024                        20 ppm Sb
	90 Y 166 S045                        18 ppm Sb
	90 F 166 S055                        19 ppm Sb
<b>Molybdenum:</b>	Range 1-66 ppm; Mean 3.1 ppm; Median 33.5 ppm
	Samples $\geq 50$ ppm Mo:
	90 Y 166 S045                        66 ppm Mo
<b>Mercury:</b>	Range 25-6,750 ppb; Mean 206 ppb; Median 3,388 ppb
	Samples $\geq 1,000$ ppb Hg:
	90 F 166 S055    6,750 ppb Hg

### Heavy Mineral Geochemistry

A descriptive summary of the three heavy mineral samples collected is outlined in Appendix III. None of the samples yielded anomalous results.

### Discussion of Results

Geochemical analysis indicate slightly elevated values for rock, soil and stream samples.

The rock samples range up to 46 ppb gold, 138 ppm copper, 56 ppm lead, 360 ppm zinc, 4.1 ppm silver, 333 ppm arsenic, 21 ppm antimony, 30 ppm molybdenum and 4,250 ppb mercury. Although elevated, none of the values can be considered highly anomalous.

The silt samples range up to 10 ppb gold, 114 ppm copper, 102 ppm lead, 291 ppm zinc, 3.0 ppm silver, 27 ppm arsenic, 9 ppm antimony and 10 ppm molybdenum. None of the values, with the exception of 291 ppm zinc, can be considered highly anomalous.

The soil samples range up to 26 ppb gold, 114 ppm copper, 100 ppm lead, 495 ppm zinc, 2.9 ppm silver, 56 ppm arsenic, 20 ppm antimony, 66 ppm molybdenum and 6,750 ppb mercury. An isolated mercury anomaly (6,750 ppb) exists on the Burr 3 claim. Two samples anomalous in arsenic (56 ppm) were taken below a gossanous outcrop of pyritic felsite on the western margin of the Burr 2 claim.

### CONCLUSIONS AND RECOMMENDATIONS

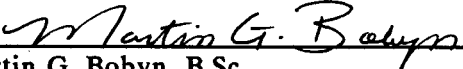
Geological mapping of the Burr 1-4 claims proved consistent with the interpretation of P. Reid et al. (1990). No extensive zones of mineralization were encountered during Keewatin's 1990 exploration program. Although rock, soil and stream geochemistry returned some elevated values, none can be considered significantly anomalous. Most of the elevated geochemistry values occur within the Upper Triassic sediment unit on the Burr 3 claim. This may reflect slight metal enrichment during emplacement of the felsic intrusives.



It is important to note that the northwest corner of the property, above the 3,600 foot contour, was inaccessible due to thick accumulations of snow. A limited exploration program consisting of geological mapping and prospecting at the higher elevations is recommended. This program should be conducted in late July or August when snow melt is complete.

Respectfully submitted,

**KEEWATIN ENGINEERING INC.**

  
Martin G. Bobyn, B.Sc.

**REFERENCES**

- Bobyn, Martin G. (1990). Assessment Report on Geological Mapping, Prospecting, Rock, Soil and Stream Sampling of the Cal 1-4 Claim Group. Keewatin Engineering Inc.**
- G.S.C. Map 11-1971.**
- High Frontier, News Release dated October 22, 1990. Drilling Program, GOZ-RDN Project.**
- Minfile 104G (1989). Telegraph Creek Mineral Occurrence Map, Scale 1:250,000.**
- Nichols, Ronald F. (1990). Geological Report on the Arctic Property. Internal Report for Keewatin Engineering Inc.**
- Read, P. et al. (1990). Geology, More and Forrest Kerr Creeks. G.S.C. Open File 2094.**
- Santa Marina Resources Ltd., News Release dated October 1990. Forgold Claim Group, B.C.**
- Souther, J.G. (1971). Telegraph Creek Map Area, British Columbia. Geological Survey of Canada Paper 71-44.**

**APPENDIX I**

**Statement of Expenditures**

**STATEMENT OF EXPENDITURES**

<b>Pre-field (drafting, expediting, etc.)</b>			<b>\$ 2,500.00</b>
<b>Salaries</b>			
E. Olfert, Senior Geologist	4 days @ \$400/day	\$1,600.00	
M. Bobyn, Project Geologist	6 days @ \$325/day	1,950.00	
J. Miller, Geologist	5 days @ \$275/day	1,375.00	
B. McIntyre, Prospector	7 days @ \$300/day	2,100.00	
M. Skeoch, Prospector	8 days @ \$240/day	1,920.00	
C. Kauss, Field Assistant	5 days @ \$225/day	1,125.00	
T. Shephard, Field Assistant	6 days @ \$175/day	1,050.00	
G. Nagy, Field Assistant	1 day @ \$260/day	260.00	
V. Jordan, Cook/First Aid	7 days @ \$260/day	<u>1,820.00</u>	
			13,200.00
<b>Helicopter Time*</b>			
Hughes 500	9.0 hrs @ \$605/hr	\$5,445.00	
Fuel	9.0 hrs @ \$91.04/hr	<u>819.36</u>	
			6,264.36
<b>Accommodation and Food</b>	49 man days @ \$60/day		2,940.00
<b>Field Equipment Rental</b> (includes radios, field gear, etc.)	49 man days @ \$20/day		980.00
<b>Geochemical Analysis*</b>			
Rocks	52 samples @ \$12.50 ea.	\$ 650.00	
Soils	295 samples @ \$10.00 ea.	2,950.00	
Silts	44 samples @ \$10.00 ea.	440.00	
Heavy Minerals	3 samples @ \$46.75 ea.	<u>140.25</u>	
			4,180.25
<b>Mobilization/Demobilization</b>			3,000.00
<b>Post-Field (reports, drafting, photocopying, word processing)</b>			<u>2,000.00</u>
<b>Sub-Total:</b>			<b>35,064.61</b>
<b>Handling Fee - 10% on 3rd party charges by Keewatin Engineering</b> (denoted by *)			<u>1,044.45</u>
<b>TOTAL:</b>			<b><u>\$36,109.06</u></b>

**APPENDIX II**

**Summary of Field Personnel**

**SUMMARY OF FIELD PERSONNEL**

<b>E. Olfert</b>	<b>Senior Geologist</b>	<b>June 7, 9, 11, 17</b>
<b>M. Bobyn</b>	<b>Project Geologist</b>	<b>May 31; June 3, 4, 5, 6, 18</b>
<b>J. Miller</b>	<b>Geologist</b>	<b>May 31; June 3, 4, 5, 6</b>
<b>B. McIntyre</b>	<b>Prospector</b>	<b>May 31; June 3, 4, 5, 6, 11, 17</b>
<b>M. Skeoch</b>	<b>Prospector</b>	<b>May 31; June 3, 4, 5, 6, 11, 17, 18</b>
<b>C. Kauss</b>	<b>Field Assistant</b>	<b>May 31; June 3, 4, 5, 6</b>
<b>T. Shepard</b>	<b>Field Assistant</b>	<b>May 31; June 3, 4, 5, 6, 9</b>
<b>G. Nagy</b>	<b>Field Assistant</b>	<b>June 7</b>
<b>V. Jordan</b>	<b>Cook/First Aid Attendant</b>	<b>May 29, 31; June 3, 4, 5, 6, 11</b>

**APPENDIX III**

**Rock, Soil, Silt and Heavy Mineral Sample Summary Logs**

# KEEWATIN ENGINEERING INC.

## ROCK SAMPLES

Project: BURR - 166  
 Area (Grid): Contour Elevations - Recon.  
 Collectors: M. BOBYN

Results Plotted By: M. BOBYN  
 Map: BASE NTS: 104 G 1W  
 Date: June 4-7, 1990 Surface  Underground

SAMPLE NUMBER	LOCATION	NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH)					ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
				GRAB	CHIP	CHANNEL	CORE	FLOAT			
90 F166R 001	Gosson 175m north of small creek draining pond.			✓					Felsic Rx (Rhyolite?)	F.g. Massive Felsic Rock; V. Siliceous - concordal fractures; // fractures $\frac{1}{2}$ in; 5-7% very fine disseminated Py; Most wx out to form Red Fe-stain	
90 F166R 002	200m South - same elev as previous gosson; Yellow-red gosson			✓					Felsic Rx (Rhyolite?)	Intense Fe stained fractured (anastomosing 130°) U. Siliceous; 2-3% finely disseminated Py. F.g. massive gtz + felspar (Felsite)	
90 F166R 003	Same loc as R002			✓					Felsic Rx (Rhyolite)	As 002	
90 F166R 004	Same Location as UR003, US014; 2015' South Burr claim.							✓	Felsic Rx	Boulders of felspar porphyritic volcanic & massive f.g. felsic (rhyolite?) $\approx$ 2m x 9m subangular; Small units 1-2mm with Py; 1-2% Py dissem; Tr Coy $\rightarrow$ From Felsic Rx	
90 F166R 005	Subangular boulder 20cm length in soil pit at loc. US022; 1999' elev.							✓	Felsic Rx	Altered, Silicified Felsic Rock; 3-9% dissem Py	
90 F166R 006	3055' elev; Along Soil Line S. Burr claims US034-035			✓					Felsic Rx	F.g. Greyish Green massive felsic rock 1-3% finely disseminated porphyritic Py	
90 F166R 007	3234' ; Same loc as US053 / FR 011			✓					Corb Alt. Andesite	F.g. - mg. carbonate v. red + pervasive altered brecciated volcanic fragments; Small fragments of 1st mafic lava to 2.0cm completely crystallized.	
90 F166R 008	3337' elev; S. Burr claims Up slide Alder Chute above US052							✓	Carbonate Altered G. Wacke Volcanic?	F.g. Carbonate altered brecciated g. wacke / volcanic? Mafic inclusions (fragments) to 1.0 cm length. Tr Coy; Relict oxidized Py.	
90 F166R 009	3341' elev; S. Burr claims Up slide Alder Chute above US052 / same location as UR004							✓	Carbonate Altered G. Wacke Volcanic?	Hem / Potassic altered rock; Small calcite units 1.0mm with; Discontinuous carbonate parts. $\frac{1}{2}$ -1% v. finely dissem Coy; $\frac{1}{2}$ -1% Py	
90 F166R 010	3461' elev; E side of slide Alder chute above US052							✓	Massive f.g. Felsic Rx	Brecciated + Fractured boulder; $\frac{1}{2}$ -1% Py dissem; along carbonate Fe stained alt.	



# KEEWATIN ENGINEERING INC.

## ROCK SAMPLES

Project: BURR -166-  
 Area (Grid): BURR SOUTH  
 Collectors: M. BOBYN

Results Plotted By: M. BOBYN  
 Map: BASE NTS: 104 G/W  
 Date: JUNE 5/6 1990 Surface  Underground

SAMPLE NUMBER	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH)					ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
			GRAB	CHIP	CHANNEL	CORE	FLOAT			
90F166R 011	3234' elev; Same Loc as US053 along soil line.		✓					Carbonate Altered Andesite	Carbonate Altered, Sheared + chloritized fragments/ volcanic rx; andesite; Angular mafic fragments to 2.0cm completely pyritized. Dark Mn stain.	
90F166R 012 (Flagged as 011)	79m from creek junction to main creek.						✓	Carbonate Altered Felsic Rock	Carbonate veins in (up to 3.0mm width) brecciated Felsic Rock; Random joint orientation Disseminated Sulfide; 1/2-1% Cpy; 1-2% Py	
90F166R 013	600m; N Bank More Creek		✓					Sheared Carb Alt. Greywacke	Carbonate Altered + Brecciated Sheared Greywacke Red gossened; 7-10% Py	
90F166R 014	As 013		✓					As 013	As 013	
90F166R 015	15m above 90F166R 014		✓					Silicified Greywacke	Fg. Gossened Red weathered; Greyish Green Fresh; Pyrite Veinlets + f.f. to 4.0cm width; Overall 10-15% Py	
90F166R 016	20m below 90F166R 014		✓					Silicified + Carbonate Alt- ered Greywacke	As 015; Pyrite Veinlets to 8.0cm width; 20-25% Py.	
90F166R 017	Next chute to West. from 013-016; 475m						✓	Brecciated + Carb Alt. Greywacke	Fg. Whitish Grey; Carbonate Altered + heavily Brecciated Greywacke. Py cubes to 3mm; Veinlets + f.f. to 1.2cm width.	
90F166R 018	Above (50m) 90F166R 017						✓		Fg. Medium grained; Orange Brown weathered Butt Grey Fresh; Qtz-rich greywacke. Pyrite f.f (<1%) in calcite veins	



Note

elevations are subject to +/- 100 ft. variations due to barometric change.

KEEWATIN ENGINEERING INC.

ROCK SAMPLES

Results Plotted By: Brian McIntyre

Map: Iskut River NTS: 104 G/I W/2.

Date: June 1990 Surface  Underground

Project: Burr 166  
 Area (Grid): 3500' Contour / Traverse  
 Collectors: Brian McIntyre

SAMPLE NUMBER	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH)					ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
			GRAB	CHIP	CHANNEL	CORE	FLOAT			
90X166R001	North end of Burr 1 at 3200' elevation, North side of Avalanche Cr below waterfall		✓					Interm. Volc	Dark grey, feldspathic, calcareous - weakly, rapid-facies changes, Chlorite veinlets to 1mm. Rare quartz veins 2mm. <1% dissem pyrite	
90X166R002	On 3500' contour soil line 10m west of 4+25 at elev. 3510'		✓						Dark green chloritic dacite, Minor dissem pyrite. Moderately siliceous. Weathers grey with patchy orange, alter.	
90X166R003	30m E. of 5+75 on 3300' contour.		✓					Intermediate Volcanic. Felsic?	Pale green altered rhyolite - some flow banding - contains black elongate inclusions or lapilli. Non magnetic. Siliceous	
90X166R004	15m E of 6+00 on 3300' contour line - unit forms a short ridge		✓					Intermediate Volcanic Felsic?	Med green siliceous Rhyolite exhibits flow breccia + minor Py <1%. Non calc. Rapid-facies changes and alteration.	
90X166R005	From Bhor. @ 27+50 soil line. 3120 ft. Burr 2. South side. Elev. 3120'						✓	Felsic	Flow banding, feldspers to 5mm, qtz veinlets 3-5mm. Black veining 1-2mm. Imm dissem euhedral PY + blebs <2%.	
90X166R006	3340' elev East side of ridge Burr 2 ssw of gossan		✓					Felsic	Light grey felsite tuff(?) with dark grey irregular areas (leached?) 1% dissem PY 1mm. and 5mm elongate blebs. Probably leached Rhyolite	
90X166R007	at 3315' East side of ridge 150m north of crown		✓					Felsic Rhyolite	10cm dia pods PY in med/dark grey rhyolite at a small fault contact with overlying pale creamy grey brecciated tuff. Both units contain wisps, blebs and dissem PY the lower unit being greatest >2%. Below this a grey to brown intermediate (Andesite?)	
90X166R008	3510' elev. at north end of crown. on east side		✓					Felsic to Intermediate	Altered felsic? tuff weathers dark red brown carries minor micro PY and is 'weakly' magnetic on weathered surface	

# KEEWATIN ENGINEERING INC.

## ROCK SAMPLES

Project: Burr Vale  
 Area (Grid): Burr 2.  
 Collectors: Brian McIntyre

Results Plotted By: Brian McIntyre  
 Map: Iskut R. NTS: 104 E/I w/2  
 Date: June Surface  Underground

SAMPLE NUMBER	LOCATION NOTES	REP. SAMPLE NUMBER	SAMPLE TYPE (LENGTH)					ROCK TYPE	SAMPLE DESCRIPTION	MAP SHEET
			GRAB	CHIP	CHANNEL	CORE	FLOAT			
90X166R009	West side of ridge 60-70m SE		✓					Felsic to Intermediate	Distinctive Recessive weathering in a zone trending E/W 4m x 20m Breccia? healed by sphalerite (minor chalco?) and quartz to 2mm.	
	90X166S046 @ 3480' - Steep rock face.									
90X166R010	South end of ridge abruptly cliffs out @ 3150'		✓					Felsic to Intermediate	As above. Forms sharp faulted blocks. Quartz eyes and rare qtz veins 1mm. No chalco observed.	
NO sample 11										
90X166R012	1570'; gully on N side of Marc Creek						✓	Pyrite Breccia	Pyrite cemented Breccia; Angular to subangular breccia with pyrite infill 5% Py	
90X166R013	GS 012						✓	Felsic Vein?	Massive Py lens in felsic boulder; Boulder is quartz + calcite.	
90X166R014	1920'; west side of grassy chute						✓	Carbonate ± Qtz vein	Carbonate ± Qtz vein 20cm wide Pyrite veins 20mm width, Pinnac and small veins 5% Py	
90X166R015	150' above 12+13						✓	Pyrite Section + Boulder	≈ 2% Py in Sed boulder; Felsic?	







# KEEWATIN ENGINEERING INC.

## STREAM SEDIMENTS

 Project: BURR -166-

 Results Plotted By: M. BOBYN

Area (Grid): \_\_\_\_\_

 Map: 166 BASE N.T.S.: 104 G 1/W

 Collectors: M. BOBYN

 Date: June 5/6 1990

Sample Number	NOTES	SEDIMENT DATA					STREAM DATA					SPRING	DRY GULLY					
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width cm	Depth cm	Velo- city							
90-F166L-001	Well developed silts on intermittent stream (winter runoff)	✓	✓	✓					8-10	1-3	Swift Flow							
90-F166L-002	Well developed Stream Banks; Sub angular desitic / Andesitic boulders to 30 cm diameter; Gentle Slope; Mod-Swift flow			✓					50-100	2-5	Mod-Swift Flow							
90-F166L-003	Gentle slope; Slow flow; intermittent streams; Good silt development; 25% organics / 75% fines; Well developed stream banks bearing 210°			✓		✓			3-8	1-3	Slow Flow							
90-F166L-004	Gentle slope; Fast flow; Intermittent stream draining winter runoff; Flow bearing 060°; 25-30% Organics / 70% Well Developed Silt Fines			✓		✓			25-75	5-15	Swift Flow							
90-F166L-005	Mod-Steep slope; Fast flow; Winter runoff; Good silt development; Trace mass organics in sample; Flow bearing 170°			✓		✓			10-30	5-8	Swift Flow							
90-F166L-006	Mod-Steep slope; High energy winter runoff; Stream w good silt development; High organic content			✓		✓			50-200	20-30	Fast Flow							
90-F166L-007	Mod-Steep slope; Well developed banks; 10-15% Organics including mass; Good fine silt development			✓		✓			100-200	20-40	Fast Flow							
90-F166L-008	Main Creek; Very Swift flow; Large angular variable composition boulders to 3m diameter - Very well developed fine silts; Gentle slope			✓					3-10	0.5-2.0	Fast Flow							
90-F166L-009	Tributary creek draining North; well developed silts at junctions; V. steep - winter runoff; Thick older vegetation; Fast flow			✓					5-15	1-3	Fast Flow							
90-F166L-010	Main Creek; As 008			✓					3-10	0.5-2.0	Fast Flow							















# KEEWATIN ENGINEERING INC.

## SOIL SAMPLES

Project: BURR SOUTH CLAIM

Results Plotted By: M. BOBYN

Area (Grid): \_\_\_\_\_

Map: \_\_\_\_\_ N.T.S.: 109 G 1/W

Collectors: M BOBYN / M. SKEDCH

Date: June 6, 1990

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 <sup>3</sup> Sample	Horizon Good	Horizon Develop-ment	Parent	Material
00-01665-001	2113'	2120'	Silty Clay		065°			✓					B	35	✓		✓		DRB
002	2096'		Sandy Clay		080°			✓					B	20		✓	✓		Br
003	2064'		Sandy Silt		072°				✓						✓		✓		RB
004	2064'		Sandy Silt		070°				✓			✓				✓			Bl.Br
005	2080'		Sandy Silt		064°				✓				B	10	✓		✓		LB
006	2048'		Loamy Silt		030°				✓					30			✓		Br
007	2048'		Loamy Brown Soil		020°				✓			✓		35		✓			DB
008	2031'		Organic Silt		312°			✓						20	✓		✓		Br
009	2031'		Sandy Silt		338°			✓						15	✓		✓		DR
010	2031'		Silty Organic Sand		350°			✓						25	✓		✓		RB
011	2064'		Sandy Organic Silt		079°		✓	✓						20	✓		✓		RB
012	2041'		Silty Loam		077°		✓							20	✓	✓	✓		MRB
013	2031'		Silty Loam		064°		✓	✓						20	✓				MRB
014	2015'		Sandy Silt "Garden Soil"		-		✓	✓						25	✓				Bl
015	2015'		Clayey Silt		002°		✓	✓						35	✓				LRB
016	2009'		Sandy Silt		090°			✓						40	✓				MB-R
017	1983'		"Orange" Soil		-			✓						20	✓				R
018	1983'		"Orange" Soil ; Clayey Silt		E			✓						40	✓				R
019	1983'		Clayey Sandy Silt		E			✓						30	✓				LRB
020	1983'		Angular Rh; Boulders to 12cm		E			✓						25	✓				MRB
021	1983'		Sandy Silt		E			✓						30	✓				DRB
022	1999'		Rock Sample Location		E		✓	✓						30	✓				MB-R
023	2015'		Sandy Silt		E			✓						40	✓				MB-R
024	2025'		Sandy Silt		E		✓	✓						40	✓				MRB
025	2009'		Silty Loam		E		✓	✓						40	✓				DB
026	2031'		Organic Clayey Silt		090°			✓						25	✓				MB
027	2031'		Silty Loam		E			✓						30	✓				DB
028	3055'		Black "Garden Soil"		318°			✓						30		✓			Bl
029	3120'		Rock Fragment to 2cm		-			✓	✓					30	✓				MB-R
030	3088'		Silty Clay		-		✓	✓	✓					25	✓				LG

# KEEWATIN ENGINEERING INC.

## SOIL SAMPLES

 Project: BURR - 166-

 Results Plotted By: M. BOBYN

Area (Grid): \_\_\_\_\_

 Map: \_\_\_\_\_ N.T.S.: 104 G/W

 Collectors: M. BOBYN / M. SKEOCH

Date: \_\_\_\_\_

Sample Number	Sample Location		Notes	Topography							Vegetation					Soil Data				
	Line Elevation	Station		Valley Bottom	Direction of slope	Hill Top	Level Ground	Heavily Wooded	Sparsely Wooded	Burnt	Logged	Grassland	Swampy	Horizon Sampled	Depth to Horizon Sample	Horizon Development		Parent Material		Colour
																Good	Poor	Drift	Bedrock	
90U1665-031-051	3088'		Clayey Silt; runoff stream bed				✓	✓					B	25	✓		✓		MBrR	
032	3071'		Gravelly Sandy Silt	NE			✓						B	20			✓		DBrR	
033	3023'		Sandy Silt	080			✓						-	25		✓			MBrR	
034	3023'		Muddy Silt / Creek Bank	NE			✓				✓		B	30		✓			MBr	
035	3120'		Gravelly Silt	358°		✓	✓						B	25	✓				LBrR	
036	3153'		Gravelly Silt	NE		✓	✓						B	30	✓				GBrR	
037	3153'			069°			✓						A?	30		✓			BrR	
038	3192'		10% s.a. fragments	NE		✓	✓						B	40	✓				DBrR	
039	3234'		Below boulder of Rhyolite	324°			✓						B	25	✓		✓		MBrR	
040	3250'		Sandy Silt	NE			✓						B	40	✓				MBr	
041	3267'		Organic clayey Silt	E		✓	✓						A?	30		✓			LBr	
042	3270'		Gully between ridges	SE			✓						B	25	✓				LBr	
043	3299'		10-15% Organics	E		✓	✓						B	40	✓				LBr	
044	3309'		Clayey Organic Silt	E			✓						A?	40		✓	✓		LBr	
045	3299'		Clayey Silt	SW			✓						A?	35		✓	✓		MBrR	
046	3250'		Organics 15%; Frags - angular	E			✓						A?	25		✓		✓	MBrR	
047	3201'		Clayey Silt	192°			✓						A?	25		✓			MBrR	
048	3201'		Clayey Sandy Silt	192°			✓						B	35	✓				MBr	
049	3201'		On Creek Bank	184°			✓						B	40	✓				MBrR	
050	3218'		Clayey Silt between boulders	S			✓						A?	35		✓			MBr	
051	3224'		On Winter runoff Ste. Bank	S			✓						B	40	✓				MBr	
052	3234'		Greenian Py. Min. Fragments	S				✓					B	40	✓				Br	
053	3234'		Below min %; Sheared	SE			✓						A?	30		✓		✓	DBr	
054	3234'		Slide Chute	166°				✓					A?	25		✓			DBr	
90F166S																				
055	Chute - North of Main Creek		Talus Flies from Gneiss	S				✓					Talus						R	



# KEEWATIN ENGINEERING INC.

## SOIL SAMPLES

Project: BURR 166

Results Plotted By: C. Kauss

Area (Grid): BURR

Map: \_\_\_\_\_ N.T.S.: 104 G1W

Collectors: CURT KAUSS MIKE SKEUCH

Date: 3/6/90

Sample Number	Sample Location		Notes	Topography								Vegetation					Soil Data				
	CONTOUR Elev.	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 Develop-ment		Parent Material		Colour	
																Good	Poor	Drift	Bedrock		
007166S 001	500		silt				✓						B	10		✓		✓	LB		
007	500		silt		SE								B	15	✓		✓		R/B		
3	500		silt		SE		✓						B	10	✓		✓		R/B		
4	510		silt, sub-rounded frags		SE								B	10		✓		✓	DB		
5	490		silt		SE			✓					B	10	✓			✓	R/B		
6	500		silt		SE								B	15	✓			✓	R/B		
7	490		silt, subangular frags		SE								B	10	✓			✓	R/B		
8	500		silt, subangular frags		SE								B	20	✓			✓	R/B		
9	500		silt		SE								B	10	✓			✓	R/B		
010	500		silt		SE								B	20	✓		✓		LB		
11	510		silt				✓						B	20	✓		✓		R/B		
12	510		silt				✓						B	20	✓		✓		R/B		
13	475		silt subangular frags		SE								B	15	✓		✓		LB		
14	475		silt 10% clay		N								B	10	✓		✓		R/B		
15	500		silt subangular frags		SE								B	10	✓		✓		R/B		
16	500		silt				✓						B	10	✓		✓		R/B		
17	500		silt				✓						B	20	✓		✓		R/B		
18	500		silt				✓						B	20	✓		✓		LB		
19	490		silt 15% subangular frags		SE			✓					A	10		✓		✓	LB		
020	495		silt		N			✓					A	20		✓		✓	DB		
21	470		silt				✓	✓	✓				B	30	✓		✓		DB		
22	490		silt 30% sand				✓		✓				A	10		✓		✓	DB		
23	495		silt 20% organic				✓		✓				A	15		✓		✓	DB		
24	500		silt 10% angular frags				✓		✓				B	15	✓			✓	DB		
25	490		silt				✓		✓				B	10		✓	✓		DB		
26	490		silt 20% angular frags				✓		✓				B	20		✓	✓		LB		
27	490		silt		SE			✓					B	20	✓		✓		DB		

# KEEWATIN ENGINEERING INC.

## SOIL SAMPLES

Project: BURR 166

Results Plotted By: C. Kavss

Area (Grid): BURR PROPERTY

Map: \_\_\_\_\_ N.T.S.: 104 GIW

Collectors: C.K + M.S

Date: June 1990

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 Good	Horizon Poor	Parent Development	Material
028	480		silt		SE								B	30		✓	✓		DB
29	500		silt		SE			✓					B	20	✓		✓		R/B
030	500		silt				✓						B	30	✓		✓		R/B
31	500		silt				✓	✓					B	30		✓			R/B
32	500		silt		SE			✓					B	10	✓		✓		R/B
33	490		silt				✓	✓					B	10	✓		✓		R/B
34	490		silt, 5% clay				✓	✓					B	10	✓		✓		R/B
35	495		silt - 5% ang. frags				✓		✓				B	10	✓			✓	R/B
36	490		silt - sub angular frags		SE		✓	✓	✓				B	10	✓		✓		R/B
37	485		silt		SE			✓					B	20	✓		✓		DB
38	485		silt		SE				✓				A	20		✓		✓	DB
39	470		silt		SE			✓					A	10		✓		✓	DB
040	480		silt 10% angular frags		SE			✓					A	20		✓		✓	DB
41	480		silt				✓						B	10	✓		✓		R/B
42	460		silt		SE			✓					R	20	✓		✓		R/B
43	460		silt, angular frags		SE			✓					B	10	✓		✓		LB
44	450		silt		SE			✓					B	20	✓		✓		LB
45	450		silt		SE				✓				B	10	✓		✓		LB
46	450		silt		SE				✓				B	10	✓		✓		R/B
47	445 m		silt		SE				✓				B	10	✓		✓		R/B
48	1330		70 silt 10 ang frag 10 sand		SE			✓	✓				B	20	✓		✓		R/B
49	1310		80 silt 10 sand 40 organic				✓	✓					B	20	✓		✓		R/B
50	1320		90 silt 5 sand 5 organic				✓	✓					B	20	✓		✓		R/B
51	1320		80 silt 15 sand 5 organic				✓	✓					B	20	✓		✓		R/B
52	1320		80 silt 10 sand 10 organic				✓	✓					B	20	✓		✓		LB
53	1320		50 silt 10 sand 10 organic		SE			✓	✓				B	20	✓		✓		R/B
54	1320		60 silt 25 sand 10 ang frags		SE				✓				B	20	✓			✓	D/R
55	1320		60 silt 30 sand 5 ang frags 5 organic		SE				✓				B	20	✓		✓		D/R

# KEEWATIN ENGINEERING INC.

## SOIL SAMPLES

Project: BURR 166

Results Plotted By: C. Kauss

Area (Grid): BURR PROPERTY

Map: \_\_\_\_\_ N.T.S.: 1:64 01W

Collectors: CK JM

Date: June 1990

Sample Number	Sample Location		Notes	Topography							Vegetation					Soil Data				
	Line	Station		Valley Bottom	Direction of slope	Hill Top	Level Ground	Heavily Wooded	Sparsely Wooded	Burnt	Logged	Grassland	Swampy	Horizon Sampled	Depth to Horizon Sample	Horizon Development	Parent	Material	Colour	
													Good	Poor	Drift	Bedrock				
90Y166S01	1320		80 silt 10 sand 10 organic		SE								B	20	✓		✓		R/B	
57	1330		80 silt 10 sand 5 clay 5 organic		SE								B	30	✓		✓		LB	
58	1330		80 silt 15 organic 20 sand		SE								B	10	✓		✓		LB	
59	1350		90 silt 5 frag 5 organic		E								B	20		✓	✓		LB	
60	1350		90 silt 5 sand 5 organic				✓						B	20	✓		✓		LB	
61	1340		80 silt 10 clay 5 sand				✓						B	30	✓		✓		LB	
62	1350		80 silt 10 clay 5 sand				✓						B	20	✓		✓		R/B	
63	1360		70 silt 20 sand 5 clay 5 org				✓						B	20	✓		✓		R/B	
64	1370		90 silt 5 sand 10 organic				✓						B	10	✓		✓		R/B	
65	1380		50% clay 30 ang frag		E			✓					B	30	✓		✓		LB	
66	1380		30% frag 20 clay 10 silt				✓						B	30	✓		✓		LB	
67	1380		30% ang frag 40% silt		SE			✓					B	25	✓		✓		LB	
68	1380		70% silt 10 sand		SE			✓					B	20	✓		✓		R/B	
69	1380		30% clay 10 organic				✓						B	25	✓		✓		LB	
70	1380		60 silt 20 clay 10 sand				✓						B	20	✓		✓		LB	
71	1385		50 silt 30 organ 10 sand				✓						B	30		✓	✓		LB	
72	1380		70 organic 25 clay				✓						A	20		✓	✓		R/B	
73	1380		80 silt 10 sand 10 organ				✓						B	20	✓		✓		LB	
74	1355		30 silt 30 ang frag 30 clay				✓						B	20	✓		✓		R/B	
75	1340		30 ang frag 30 silt 10 clay				✓						B	20	✓		✓		R/B	
76	1340		40 ang frag 30 silt 10 clay		SE		✓						B	15	✓		✓		R/B	
77	1340		60 silt 30 sand 10 organ				✓						B	25	✓		✓		LB	
78	1340		80 silt 10 sand 10 organ		SE			✓					B	30	✓		✓		R/B	
79	1341		50% silt 10 organ 10 ang frag		SE			✓					B	20	✓		✓		LB	
80	1340		NO SAMPLE																	
81	1345		80 organic 20 silt		SE			✓					A	20		✓	✓		DB	
82	1340		50 silt 20 sand 20 ang frag		SE			✓					B	20	✓		✓		LB	
83	1340		NO SAMPLE																LB	
84	1345		50 silt 20 sand 10 frag		SE			✓					B	20	✓		✓		LB	

# KEEWATIN ENGINEERING INC.

## SOIL SAMPLES

Project: BURR 166

Results Plotted By: C. Kaus

Area (Grid): BURR PROPERTY

Map: \_\_\_\_\_ N.T.S.: 1:4 GIW

Collectors: CK JM

Date: June 1990

Sample Number	Sample Location		Notes	Topography			Vegetation					Soil Data							
	ELEV Line	Station		Valley Bottom	Direction of slope	Hill Top	Level Ground	Heavily Wooded	Sparsely Wooded	Burnt	Logged	Grassland	Swampy	Horizon Sampled	Depth to Horizon Sample	Horizon Development	Parent	Material	Colour
													Good	Poor	Drift	Bedrock			
85	2200		60 silt + 10 sand 20 frag 10 org		S		✓						B	10	✓		✓		RB
86	1990		70 silt + 10 sand 20 org		S		✓						B	20	✓		✓		DB
87	2200		80 silt + 10 sand 5 org 5 frag		SW		✓						B	30	✓		✓		RB
88	2200		80 silt + 10 sand 10 org		S		✓						B	20	✓		✓		R/B
89	2270		80 silt + 10 sand 10 org		SW		✓	✓					B	15	✓		✓		RB
90	2250		90 silt + 10 org		SW		✓						B	10	✓		✓		RB
91	2280		60 silt + 20 clay 10 sand 10 org		SW	✓	✓						B	15	✓		✓		RB
92	2310		70 silt + 20 sand 5 org 5 frag		E		✓						B	20	✓		✓		RB
93	2315		40 silt 5 org 5 frag 5 org		E		✓						B	10	✓		✓		R/B
94	2330		80 silt + 10 sand 15 org		E		✓						B	10	✓		✓		RB
95	2320		80 silt + 10 sand 5 frag (rd)				✓	✓					B	15	✓		✓		RB
96	2280		80 silt + 10 sand 10 org				✓						B	30	✓		✓		DB
97	2310		80 silt + 10 sand 5 org 5 frag		SE			✓					B	20	✓		✓		RB
98	2330		70 silt + 20 sand 10 org		SE			✓					B	25	✓		✓		RB
99	2340		90 silt + 5 frag 2 sand		E			✓					B	30	✓		✓		RB
100	2350		70 silt + 20 sand 5 clay		E			✓					B	20	✓		✓		RB
101	2330		70 silt + 10 frag 10 sand		E			✓					B	20	✓		✓		RB
102	2330		60 silt + 20 sand 10 org		E			✓					B	20	✓		✓		RB
103	2335		50 silt + 30 org 10 sand		E			✓					A	25		✓	✓		DB
104	2330		50 silt + 20 frag 2 clay		E			✓					B	20		✓	✓		DB
105	2310		70 silt + 20 sand 10 clay		E			✓					B	20		✓	✓		DB
106	2290		50 org frag 40 silt 10 org		E			✓					A	20		✓	✓		DB
107	2100		70 org frag 60 silt 10 sand		E			✓					B	25	✓		✓		R/B
108	2090		20 frag 60 silt 10 org 5 clay		NE			✓					B	25	✓		✓		RB
109	2090		70 silt + 10 rd frag 20 org		NE			✓					B	25	✓		✓		RB
110	2070		70 silt + 20 rd frag 15 sand		NE			✓					B	20	✓		✓		RB
111	2040		30 rd frag 60 silt 10 sand		NE			✓					B	20	✓		✓		RB
112	2040		20 org frag 50 silt 10 sand		NE			✓					B	25	✓		✓		RB
113	2050		50 silt + 30 org 10 sand		NE			✓					B	40	✓		✓		RB

# KEEWATIN ENGINEERING INC.

## SOIL SAMPLES

Project: BURR 166

Results Plotted By: C. Kauss

Area (Grid): \_\_\_\_\_

Map: \_\_\_\_\_ N.T.S.: 104 G1W

Collectors: CK JM

Date: June 1990

Sample Number	Sample Location		Notes	Topography							Vegetation					Soil Data				
	ELEVAT Line	Station		Valley Bottom	Direction of slope	Hill Top	Level Ground	Heavily Wooded	Sparsely Wooded	Burnt	Logged	Grassland	Swampy	Horizon Sampled	Depth to Horizon Sample	Horizon Development		Parent	Material	Colour
																Good	Poor			
114	2070		30 org frag 10 sand 50 silt		NE								B		✓		✓		RB	
115	2070		75 silt 10 sand 5 frag 5 org		NE								B		✓		✓		RB	
116	2070		50 silt 20 frag 20 org 10 sand		NE								B		✓		✓		RB	
117	2070		55 silt 20 frag 20 org		NE								B		✓		✓		DB	
118	2060		80 silt 15 frag 5 sand		NE								B		✓		✓		RB	
119	2060		60 silt 20 frag 10 sand 10		NE								B		✓		✓		RB	
120	1950		10 silt 10 sand 10 org										A		✓		✓		UB	
121	1950		10 silt 10 sand 10 org										A		✓		✓		UB	
122	1950		10 silt 10 sand 10 org										B		✓		✓		RE	
123	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
124	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
125	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
126	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
127	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
128	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
129	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
130	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
131	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
132	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
133	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
134	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
135	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
136	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
137	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
138	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
139	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
140	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
141	1950		10 silt 10 sand 10 org										B		✓		✓		DB	
142	1970		20 org 10 sand 20 silt		E								A		✓		✓		DB	





# KEEWATIN ENGINEERING INC.

## SOIL SAMPLES

Project: Burr 166

Results Plotted By: Brian McIntyre

Area (Grid): \_\_\_\_\_

Map: Iskut River N.T.S.: 104 G/1 West Half

Collectors: Brian McIntyre & Trevor Shepard

Date: June 1990

Sample Number	Sample Location		Notes  A angular SA sub angular SR sub rounded R  fragments	Topography			Vegetation					Soil Data									
	Feet Elev.	Metres Station		Valley Bottom	Direction of slope	Hill Top	Level Ground	Heavily Wooded	Sparsely Wooded	Burnt	Logged	Grassland	Swampy	Horizon Sampled	Depth to Horizon Sample (cm)	Horizon Development		Parent Material		Colour	
																Good	Poor	Drift	Bedrock		
90V166S																					
001	3500	0+50	silt/clay 50/50	270			✓						B	50	✓			✓		MRB	
002	3500	1+00	silt/clay/sand 40/40/20 SA	270			✓						B	20	✓			✓		DRB	
003	3450	1+50	silt/clay/sand 50/50/0 SA	270			✓						B	60		✓		✓		DRB	
004	3400	2+00	silt/clay/sand 50/50/0 SA	250			✓						B	30	✓			✓		MRE	
005	3450	2+50	Frozen B. silt/clay 50/50	250			✓						B	30	✓			✓		MRE	
006	3490	3+00	silt/clay/sand 50/50/0 SA	250			✓						B	40	✓			✓		MRE	
007	3490	3+50	silt/clay/sand 80/5/10/5 SA	270			✓						B	20	✓			✓		MRE	
008	3510	4+00	silt/clay/sand 50/50/0 SA	270			✓						B	40	✓			✓		LRE	
009	3430	4+50	silt/clay/sand 50/45/5 A+SR	270			✓						B	20		✓		✓		MRE	
010	3460	5+00	silt/clay/sand 70/35/15/0 SA	260			✓						B	30	✓			✓		LRE	
011	3470	5+40	silt/clay/sand 20/10/70	250			✓				✓		A	50		✓		✓		DR	
012	3500	6+00	silt/clay/sand 70/20/10 A	270			✓				✓		B	60		✓		✓		DR	
013	3530	6+50	silt/clay/sand 50/40/10 SA	270			✓				✓		A	60		✓		✓		DR	
014	3530	7+00	silt/clay/sand 70/20/55 SA	250			✓						B	50		✓		✓		DR	
015	3560	7+50	silt/clay 50/50 SR	260			✓						B	30	✓			✓		MRE	
016	3550	8+00	silt/clay/sand 50/45/5 SA+R	270			✓						B	60		✓		✓		DR	
017	3540	8+50	silt/clay/sand 50/30/5/5 SA	270			✓						B	40		✓		✓		DR	
018	3550	9+00	silt/clay/sand 70/20/5/5 A	270			✓						B	35	✓			✓		MRE	
019	3270	0+00	silt/clay 50/50 R	250			✓						B	40				✓		LRE	
020	3260	0+50	silt/clay/sand 50/30/10/0 SA	260			✓						B	50				✓		LRE	
021	3200	1+00	silt/clay/sand 50/40/10 SA	250			✓						B	40				✓		LRE	
022	3280	1+50	silt/clay/sand 70/20/10 SR	270			✓						B	30				✓		MRE	
023	3260	2+00	silt/clay/sand 70/20/5/5 SA	270			✓						B	20				✓		MRE	
024	3280	2+50	silt/clay/sand 80/10/5/5 SA	250			✓						B	25				✓		MRE	
025	3280	3+00	silt/clay/sand 70/20/10 A	250			✓						B	60				✓		LRE	
026	3280	3+50	silt/clay/sand 70/20/10 A	250			✓						B	50				✓		MRE	
027	3270	4+00	silt/clay/sand 70/20/10 SA	250			✓						B	30				✓		MRE	
028	3270	5+00	silt/clay/sand 70/20/10 SR	250	✓		✓						B	35				✓		MB	
029	3270	5+50	silt/clay 50/50	250	✓		✓						B	15				✓		MB	



# KEEWATIN ENGINEERING INC.

## SOIL SAMPLES

Project: Burr (166)

Results Plotted By: Brian McIntyre

Area (Grid): \_\_\_\_\_

Map: Iskut River N.T.S.: 104 G/1 West Half

Collectors: Brian McIntyre & Trevor Sheppard

Date: June 1990

Sample Number	Sample Location		Notes A angular SA sub. ang. SR sub. round R round.	Topography					Vegetation					Soil Data						
	Feet Elev.	Metres 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 Good	Horizon Develop-ment	Parent	Material	Colour
90V1665																				
031	3270	30+00	silt/clay 70/30				✓	✓					B	45	✓			✓	LRB	
032	3270	30+50	silt/clay/frag 70/20/10 SA		125		✓						B	50	✓			✓	MRB	
033	3300	31+00	silt/sand/clay/frag 60/10/10/10 SA		120		✓						B	50	✓			✓	MRB	
034	33+00	31+50	silt/clay/sand/frag 60/20/5/5/10 SA		120		✓						B	40	✓			✓	MB	
035	3300	32+00	silt/clay/frag 70/20/10 SA		160		✓						B	60	✓			✓	MRB	
036	3280	32+50	silt/frag/clay/sand 60/30/5/5 A		140		✓	✓					B	50	✓			✓	MRB	
037	3250	33+00	silt/clay/frag 50/45/5				✓	✓					B	50	✓			✓	MRB	
038	3240	33+50	silt/clay/frag 60/20/10/10 K(A)				✓	✓					B	60	✓			✓	MRB	
039	3220	34+00	silt/clay/sand 20/10/10 A				✓	✓					B	40	✓				MRB	
040	3280	0+00	silt/clay 50/50	✓			✓	✓					B	40		✓			DRB	
041	3260	0+50	silt/sand/frag 70/10/10/10 A			✓	✓	✓	✓				B	30	✓				MRB	
042	3250	1+00	silt/sand/frag 70/10/10/10 A		350		✓	✓	✓				B	30	✓				MRB	
043	3210	1+50	silt/sand/clay/frag 70/10/10/10 A		340		✓	✓	✓				B	35	✓				MRB	
044	3120	2+00	silt/clay/frag 60/30/10 A		290		✓	✓	✓				B	30		✓			DB	
045	3050	2+50	silt/clay/frag 70/20/10 A				✓	✓	✓				B	40		✓			DRB	

# KEEWATIN ENGINEERING INC.

## SOIL SAMPLES

Project: Burr 166

Results Plotted By: D. McIntyre

Area (Grid): 3200' contour, start; 3450 high; 3050 finish

Map: 104G/I W/2 N.T.S.: 15KUT RIVER

Collectors: Brian McIntyre & Trevor Shepherd

Date: June 1990

Sample Number	Sample Location		Notes	Topography								Vegetation					Soil Data				
	Elevation	Station		Valley Bottom	Direction of slope	Hill Top	Level Ground	Heavily Wooded	Sparsely Wooded	Burnt	Logged	Grassland	Swampy	Horizon Sampled	Depth to Horizon Sample	Horizon Development	Parent	Material	Colour		
90X166S															Good	Poor	Drift	Bedrock			
001	3270	6+50	Silt 10% organic 15% A frags 6cm					✓						B	40	✓		✓	MRB		
002		7+00	Silt 50% A frags to 10cm					✓						B	40		✓	✓	DRB		
003		7+50	Silt 20% A frags					✓						B	40	✓		✓	MRB		
004		8+00	40% A frags 15cm 10% organic						✓					B	20		✓	✓	DRB		
005	3240	8+50	<5% sand & organics 10% A frags						✓					B	50	✓		✓	MRB		
006		9+00	20% organic 30% A frags to 10cm						✓					B	60	✓		✓	MRB		
007		9+50	5% organics 10% SA-SR frags					✓						B	20	✓		✓	DRB		
008		10+00	20% organic 10% SR frags - see page					✓						B	35	✓		✓	MRB		
009	3250	10+50	5% sand 5% SR frags 3cm							✓				B	30	✓		✓	MRB		
010	3260	11+00	5% organics							✓				D	35	✓		✓	MRB		
011	3320	11+50	5% sand 5% organics 5% SA frags							✓				B	40	✓		✓	MRB		
012		12+00	5% organic <5% SA frags							✓				D	30	✓		✓	MRB		
013		12+50	10% organic 5% SA frags							✓				B	35	✓		✓	MRB		
014		13+00	5% organic 5% SR frags 5% sand							✓				B	40			✓	DRB		
015	3320	13+50	5% organics 10% SA frags							✓	✓			B	35			✓	MRB		
016		14+00	+20% organics - break in slope							✓	✓			A	40			✓	DB		
017	3360	14+50	10% A frags to 5cm							✓	✓			B	30			✓	DRB		
018	3400	15+00	10% organic 5% SR frags <sup>break in slope</sup>							✓	✓			B	35			✓	DRB		
019	3400	15+50	5% organic 10% SR frags							✓	✓			D	35			✓	MRB		
020	3400	16+00	5% organic <5% SR frags 1cm											B	25			✓	MRB		
021	3380	16+50	5% organic 5% SR frags to 4cm											B	40			✓	MRB		
022	3340	17+00	SA frags to 6cm											B	30			✓	MRB		
023	3330	17+50	5% SA frags 2cm											B	30			✓	MRB		
024	3300	18+00	30% organics 50% SA to 10+cm											A	40			✓	DRB		
n.s.	3270	18+50	rock slide															✓			
025	3270	19+00	5% SA frags & A frags											B	30			✓	MRB		
026	3300'	19+50	5% organic 5% angular											B	30			✓	DRB		
027	3320'	20+00	10% A frags											B	30			✓	MRB		
028	3260'	20+50	5% clay 5% A frags to 3cm 5% organic											B	35			✓			



**APPENDIX IV**

**Rock, Soil and Stream Sample Geochemistry Results**











*John Burr*

COMP: KEEWATIN ENGRG.-MORE CREEK  
PROJ: 166  
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-0067-SJ2+3  
DATE: 90/06/18  
\* SOILS \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	CU PPM	MO PPM	PB PPM	SB PPM	ZN PPM	AU PPB	HG PPB
90 U 166 S 009	.6	1	34	2	11	1	42	1	130
90 U 166 S 010	.2	1	24	2	17	1	55	2	140
90 U 166 S 011	.9	1	20	2	21	1	51	2	300
90 U 166 S 012	1.3	1	30	9	84	1	134	1	115
90 U 166 S 013	1.3	1	33	4	23	1	55	1	110
90 U 166 S 014	.7	1	14	1	13	1	23	2	150
90 U 166 S 015	1.7	1	24	3	27	1	83	1	170
90 U 166 S 016	1.2	1	51	2	16	1	148	1	160
90 U 166 S 017	1.5	1	31	3	18	1	206	1	100
90 U 166 S 018	2.2	1	22	2	9	1	88	1	195
90 U 166 S 019	1.0	1	17	6	21	1	91	3	80
90 U 166 S 020	.6	1	32	3	14	1	79	1	110
90 U 166 S 021	.6	1	41	2	10	1	178	1	315
90 U 166 S 022	.4	1	40	1	14	1	157	2	175
90 U 166 S 023	.9	1	51	2	12	1	130	1	230
90 U 166 S 024	1.1	1	47	2	11	1	124	1	240
90 U 166 S 025	1.1	1	61	3	15	1	84	2	175
90 U 166 S 026	1.1	1	33	4	20	1	67	1	155
90 U 166 S 027	1.1	1	43	3	18	1	108	1	225
90 U 166 S 028	.7	1	25	4	19	1	36	2	760
90 U 166 S 029	.7	1	23	3	14	1	81	1	210
90 U 166 S 030	1.1	1	14	4	12	1	28	1	105
90 U 166 S 031	1.0	1	45	4	10	1	141	2	260
90 U 166 S 032	1.3	1	22	4	22	1	39	2	510
90 U 166 S 033	.9	1	25	1	18	1	46	1	145
90 U 166 S 034	1.5	1	35	7	30	1	234	1	280
90 U 166 S 035	1.0	1	29	2	13	1	66	1	220
90 U 166 S 036	.5	1	29	3	15	1	55	1	215
90 U 166 S 037	1.0	1	22	4	15	1	40	2	220
90 U 166 S 038	.2	3	36	3	20	1	65	1	275
90 U 166 S 039	.8	1	39	1	14	1	50	2	265
90 U 166 S 040	.3	1	70	2	10	1	78	3	290
90 U 166 S 041	.1	1	32	2	11	1	33	1	190
90 U 166 S 042	.4	1	60	2	11	1	65	2	410
90 U 166 S 043	.3	1	68	3	15	1	110	1	270
90 U 166 S 044	1.0	1	46	2	18	1	87	1	220
90 U 166 S 045	.9	1	41	3	14	1	55	1	285
90 U 166 S 046	.5	1	41	1	7	1	52	2	255
90 U 166 S 047	.9	1	30	3	14	1	45	1	420
90 U 166 S 048	.4	1	70	2	14	1	75	1	490
90 U 166 S 049	.6	1	53	2	17	1	56	1	345
90 U 166 S 050	.9	1	52	3	17	1	86	2	165
90 U 166 S 051	1.3	1	58	2	17	1	68	1	205
90 U 166 S 052	1.2	1	65	11	18	1	175	1	275
90 U 166 S 053	.9	1	43	3	40	2	147	3	250
90 U 166 S 054	.4	1	30	5	46	1	133	1	100
90 U 166 S 055	1.4	1	129	1	19	1	90	2	140
90 V 166 L 001	1.1	1	55	1	18	1	101	1	110
90 V 166 L 002	.9	1	46	1	17	1	97	2	70
90 V 166 L 003	.8	9	39	2	15	1	92	1	235
90 V 166 L 004	1.0	1	52	3	18	1	98	1	195
90 V 166 S 001	1.4	1	25	5	15	1	36	3	185
90 V 166 S 002	1.9	1	31	6	12	1	36	2	170
90 V 166 S 003	1.2	1	58	5	15	1	29	1	330
90 V 166 S 004	.7	1	27	6	11	1	41	1	175
90 V 166 S 005	.8	1	18	2	10	1	24	2	240

*Alan Burr*

COMP: KEEWATIN ENGRG.-MORE CREEK  
PROJ: 166  
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-0067-SJ4+5  
DATE: 90/06/18  
\* SOILS \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	CU PPM	MO PPM	PB PPM	SB PPM	ZN PPM	AU PPB	HG PPB
90 V 166 S 006	.1	1	32	2	11	1	22	1	135
90 V 166 S 007	1.0	1	48	2	14	1	37	2	125
90 V 166 S 008	1.5	1	27	2	9	1	66	1	145
90 V 166 S 009	1.0	1	26	2	15	1	59	1	70
90 V 166 S 010	.2	1	37	2	13	1	39	2	245
90 V 166 S 011	.5	1	56	2	8	1	39	5	135
90 V 166 S 012	.6	1	66	2	18	1	56	1	140
90 V 166 S 013	.2	1	32	2	13	1	24	2	180
90 V 166 S 014	1.0	1	35	2	14	1	33	1	165
90 V 166 S 015	.7	1	28	2	13	1	30	1	110
90 V 166 S 016	1.5	1	38	1	17	1	44	2	45
90 V 166 S 017	1.4	1	35	2	12	1	42	1	125
90 V 166 S 018	1.4	1	26	2	12	1	40	1	25
90 V 166 S 019	.5	1	44	3	14	1	33	1	310
90 V 166 S 020	.5	3	32	2	16	1	54	1	80
90 V 166 S 021	.7	4	35	2	14	1	71	1	150
90 V 166 S 022	1.0	4	28	4	19	2	61	3	210
90 V 166 S 023	.7	1	39	2	20	1	72	1	330
90 V 166 S 024	1.1	1	28	2	14	1	36	1	340
90 V 166 S 025	1.7	1	35	2	9	1	49	2	185
90 V 166 S 026	1.0	1	39	3	19	1	55	1	220
90 V 166 S 027	.7	9	43	3	22	2	57	1	170
90 V 166 S 028	1.1	1	43	3	17	1	43	2	270
90 V 166 S 029	1.9	1	47	2	11	1	72	1	310
90 V 166 S 030	1.4	1	25	3	13	1	41	1	440
90 V 166 S 031	.7	1	122	2	17	1	139	1	215
90 V 166 S 032	1.5	10	60	2	27	3	107	1	250
90 V 166 S 033	.6	1	39	2	19	2	65	2	185
90 V 166 S 034	.7	1	43	3	18	1	99	1	120
90 V 166 S 035	.8	1	56	3	15	1	86	1	320
90 V 166 S 036	.4	1	63	2	11	1	82	1	230
90 V 166 S 037	.6	1	35	3	15	1	79	1	170
90 V 166 S 038	.9	1	48	3	12	1	103	2	300
90 V 166 S 039	.5	1	42	3	17	1	45	1	240
90 V 166 S 040	.2	1	31	4	14	1	33	1	140
90 V 166 S 041	.4	1	58	2	19	1	80	1	245
90 V 166 S 042	.7	1	34	2	15	1	51	1	145
90 V 166 S 043	.4	1	33	3	16	1	53	1	170
90 V 166 S 044	.9	1	49	3	14	1	42	2	90
90 V 166 S 045	1.4	1	50	2	10	1	38	1	155
90 X 166 S 001	1.1	1	40	3	14	1	47	1	370
90 X 166 S 002	.9	1	34	7	21	1	47	1	320
90 X 166 S 003	.7	6	31	2	21	1	57	2	110
90 X 166 S 004	1.1	1	49	2	22	1	52	2	155
90 X 166 S 005	1.1	1	43	3	13	1	75	1	125
90 X 166 S 006	.9	1	28	3	32	1	59	1	140
90 X 166 S 007	1.0	1	36	2	10	1	73	2	510
90 X 166 S 008	1.0	1	60	2	21	1	108	1	145
90 X 166 S 009	.8	4	36	4	16	1	66	1	100
90 X 166 S 010	.5	22	38	7	31	3	75	1	80
90 X 166 S 011	1.5	1	47	3	13	1	38	1	115
90 X 166 S 012	.9	1	43	6	32	1	68	1	80
90 X 166 S 013	.9	5	50	4	18	1	55	2	90
90 X 166 S 014	.5	10	49	2	25	1	74	1	210
90 X 166 S 015	.4	1	30	1	23	1	35	3	95
90 X 166 S 016	.7	1	62	4	13	1	33	2	115
90 X 166 S 017	1.5	1	78	3	19	1	47	1	110
90 X 166 S 018	.7	11	144	12	24	2	53	1	75
90 X 166 S 019	1.1	5	37	7	27	4	50	1	90
90 X 166 S 020	1.7	1	73	2	23	1	66	1	150

*Atten per*

CCMP: KEEWATIN ENGRG.-MORE CREEK  
PROJ: 166  
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-0067-SJ6+7  
DATE: 90/06/18  
\* SOILS \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	CU PPM	MO PPM	PB PPM	SB PPM	ZN PPM	AU PPB	HG PPB
90 X 166 S 021	.7	1	31	1	15	1	34	1	160
90 X 166 S 022	.2	1	53	1	10	1	45	1	225
90 X 166 S 023	.1	1	61	6	13	1	107	1	525
90 X 166 S 024	.4	1	69	1	12	1	12	1	170
90 X 166 S 025	.7	1	52	2	15	1	41	2	335
90 X 166 S 026	.9	1	77	2	14	1	69	1	130
90 X 166 S 027	1.3	1	45	1	15	1	36	2	285
90 X 166 S 028	1.0	1	41	1	12	1	20	1	295
90 X 166 S 029	1.0	1	49	2	14	1	65	1	325
90 X 166 S 030	.8	1	75	2	13	1	118	2	320
90 X 166 S 031	.3	1	40	1	12	1	50	1	155
90 X 166 S 032	.6	1	53	1	17	1	36	1	265
90 X 166 S 033	.9	1	45	2	15	1	67	1	320
90 X 166 S 034	.7	1	34	2	12	1	70	3	245
90 X 166 S 035	1.0	1	36	3	15	1	73	1	310
90 X 166 S 036	1.0	1	45	2	14	1	93	2	250
90 X 166 S 037	.1	1	39	2	15	1	62	1	105
90 X 166 S 038	.3	1	58	1	13	1	61	2	380
90 X 166 S 039	.6	1	54	1	14	1	86	1	150
90 X 166 S 040	1.0	1	63	1	13	1	68	1	170
90 X 166 S 041	.6	1	44	1	14	1	97	1	260
90 X 166 S 042	1.1	1	54	1	14	1	93	1	185
90 X 166 S 043	.7	1	51	2	14	1	44	1	280
90 X 166 S 044	.7	1	35	2	17	1	52	2	135
90 X 166 S 045	.6	1	42	1	13	1	63	1	140
90 X 166 S 046	.3	1	53	4	13	1	95	1	210
90 Y 166 L 001	.9	1	53	2	16	1	103	2	240
90 Y 166 L 002	1.0	1	40	1	17	1	113	2	140
90 Y 166 L 003	1.2	3	31	3	20	1	120	1	285
90 Y 166 L 004	3.0	27	17	10	102	9	60	3	300
90 Y 166 L 005	.8	6	20	3	17	1	65	1	90
90 Y 166 L 006	1.2	11	35	2	16	1	130	2	135
90 Y 166 L 007	1.6	5	13	2	14	1	157	3	95
90 Y 166 L 008	1.2	3	41	3	22	1	132	2	75
90 Y 166 S 001	2.6	56	5	3	55	10	17	1	70
90 Y 166 S 002	.8	5	33	2	17	1	100	2	105
90 Y 166 S 003	1.1	15	24	2	16	1	142	1	75
90 Y 166 S 004	.9	11	20	2	14	1	72	1	140
90 Y 166 S 005	.7	13	25	2	13	1	77	1	115
90 Y 166 S 006	.9	3	15	2	10	1	166	2	100
90 Y 166 S 007	.8	14	30	2	18	1	98	1	125
90 Y 166 S 008	.9	9	37	2	16	1	108	1	140
90 Y 166 S 009	.9	8	29	2	18	1	92	2	80
90 Y 166 S 010	.5	7	27	2	12	1	100	3	50
90 Y 166 S 011	.6	1	21	2	12	1	112	1	120
90 Y 166 S 012	1.9	7	11	2	16	1	69	1	95
90 Y 166 S 013	1.0	9	24	2	16	1	118	1	130
90 Y 166 S 014	1.1	13	25	2	16	1	103	2	150
90 Y 166 S 015	.5	8	30	2	15	1	117	1	125
90 Y 166 S 016	.8	18	30	2	14	1	135	1	105
90 Y 166 S 017	.6	8	23	2	8	1	107	2	90
90 Y 166 S 018	1.4	1	16	1	14	1	148	1	110
90 Y 166 S 019	.8	5	34	2	14	1	90	3	125
90 Y 166 S 020	1.0	12	26	4	12	1	81	1	185
90 Y 166 S 021	.7	17	13	7	9	1	101	2	240
90 Y 166 S 022	.3	16	7	2	12	1	48	1	225
90 Y 166 S 023	1.2	14	29	5	24	1	183	1	230
90 Y 166 S 024	.9	38	43	30	76	20	495	2	300
90 Y 166 S 025	.6	18	11	3	15	1	95	2	355
90 Y 166 S 026	1.3	12	18	8	18	1	139	1	145

*How Beer*

COMP: KEEWATIN ENGRG.-MORE CREEK  
PROJ: 166  
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-0067-SJ8+9

DATE: 90/06/18

\* SOILS \* (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	CU PPM	MO PPM	PB PPM	SB PPM	ZN PPM	AU PPB	HG PPB
90 Y 166 027	.7	7	24	7	16	1	167	4	320
90 Y 166 028	.7	10	24	5	16	1	163	1	170
90 Y 166 029	.6	1	23	2	12	1	167	2	160
90 Y 166 030	.9	9	22	2	10	1	100	2	175
90 Y 166 031	.5	8	17	2	17	1	99	3	150
90 Y 166 032	.6	4	43	2	12	1	72	1	145
90 Y 166 033	.5	4	28	2	11	1	139	1	140
90 Y 166 034	.5	7	28	2	15	1	119	1	105
90 Y 166 035	.6	1	9	1	11	1	86	4	75
90 Y 166 036	.8	1	12	7	16	1	129	1	115
90 Y 166 037	.7	2	21	3	19	1	156	2	75
90 Y 166 038	.8	1	27	3	23	1	216	1	135
90 Y 166 039	.6	1	21	2	13	1	99	1	225
90 Y 166 040	.5	1	18	1	29	1	101	1	235
90 Y 166 041	.9	1	15	2	16	1	175	3	105
90 Y 166 042	.7	1	15	2	8	1	109	4	110
90 Y 166 043	.7	6	29	2	25	1	91	2	190
90 Y 166 044	2.0	1	15	5	16	1	62	1	215
90 Y 166 045	.1	1	67	66	100	18	118	4	395
90 Y 166 046	.4	2	26	3	12	1	102	1	90
90 Y 166 047	.5	7	23	2	14	1	87	2	85
90 Y 166 048	1.9	1	16	1	15	1	148	1	80
90 Y 166 049	2.6	1	13	2	16	1	161	1	60
90 Y 166 050	2.6	11	31	3	16	1	258	2	115
90 Y 166 051	.8	11	23	2	13	2	99	1	150
90 Y 166 052	.6	4	21	2	12	1	126	2	155
90 Y 166 053	.8	5	32	2	10	1	154	1	115
90 Y 166 054	.9	1	14	1	17	1	132	1	165
90 Y 166 055	.8	7	24	2	17	2	163	3	135
90 Y 166 056	1.4	1	12	1	10	1	219	1	150
90 Y 166 S 057	.5	1	25	1	8	1	107	1	65
90 Y 166 S 058	.1	6	16	1	7	1	50	1	85
90 Y 166 S 059	.1	1	31	1	7	1	66	2	80
90 Y 166 S 060	.6	1	19	1	8	1	159	1	120
90 Y 166 S 061	.6	1	24	3	10	1	130	1	140
90 Y 166 S 062	1.6	1	15	1	6	1	63	1	120
90 Y 166 S 063	.4	3	22	1	10	1	93	4	175
90 Y 166 S 064	.6	2	24	2	9	1	105	1	180
90 Y 166 S 065	1.2	1	26	2	9	1	107	2	165
90 Y 166 S 066	.8	1	14	1	5	1	44	1	120
90 Y 166 S 067	.6	1	22	2	11	1	75	1	105
90 Y 166 S 068	.8	1	24	2	10	1	181	2	110
90 Y 166 S 069	.6	1	31	3	6	1	65	3	150
90 Y 166 S 070	.4	1	19	2	6	1	43	2	70
90 Y 166 S 071	1.3	1	18	2	10	1	82	2	125
90 Y 166 S 072	.9	1	26	3	9	1	46	2	175
90 Y 166 S 073	.1	3	33	1	9	1	81	1	80
90 Y 166 S 074	.8	1	16	3	8	1	102	1	75
90 Y 166 S 075	.6	1	41	2	26	1	113	1	105
90 Y 166 S 076	1.2	1	19	2	11	1	168	2	110
90 Y 166 S 077	1.2	1	11	1	7	1	73	1	65
90 Y 166 S 078	.5	1	19	1	8	1	123	1	90
90 Y 166 S 079	1.5	1	13	2	10	1	212	2	130
90 Y 166 S 081	.4	13	12	3	15	1	51	2	330
90 Y 166 S 083	.3	1	17	2	8	1	125	1	140
90 Y 166 S 084	.6	1	14	1	9	1	163	1	135
90 Y 166 S 085	1.2	1	16	3	8	1	107	1	165
90 Y 166 S 086	.7	3	15	1	14	2	67	2	355
90 Y 166 S 087	2.4	1	13	1	10	1	105	2	155
90 Y 166 S 088	1.3	1	20	1	12	3	125	4	250

*P. 100 - Burr*

COMP: KEEWATIN ENGRG.-MORE CREEK  
PROJ: 166  
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: 05-0067-SJ10+11  
DATE: 90/06/18  
• SOILS • (ACT:F31)

SAMPLE NUMBER	AG PPM	AS PPM	CU PPM	MO PPM	PB PPM	SB PPM	ZN PPM	AU PPB	HG PPB
90 Y 166 S 089	.5	6	19	2	10	1	237	1	130
90 Y 166 S 090	.6	1	21	2	17	1	154	1	110
90 Y 166 S 091	.5	1	7	1	5	1	25	1	80
90 Y 166 S 092	1.0	1	8	1	8	1	38	2	145
90 Y 166 S 093	.4	8	37	3	11	1	176	4	165
90 Y 166 S 094	.6	8	26	3	10	1	111	1	120
90 Y 166 S 095	1.4	17	15	2	15	1	93	1	130
90 Y 166 S 096	2.1	5	22	3	14	1	46	2	95
90 Y 166 S 097	1.4	4	29	4	15	1	157	2	195
90 Y 166 S 098	1.3	7	16	8	11	1	56	1	115
90 Y 166 S 099	.9	15	35	2	12	1	80	3	135
90 Y 166 S 100	.8	15	27	3	12	1	85	1	205
90 Y 166 S 101	.8	9	29	6	20	1	87	1	170
90 Y 166 S 102	.6	10	20	3	14	1	75	3	65
90 Y 166 S 103	1.0	16	34	2	13	1	57	1	50
90 Y 166 S 104	1.7	16	44	2	10	1	50	2	60
90 Y 166 S 105	.9	13	33	3	22	1	192	1	125
90 Y 166 S 106	.5	15	18	1	14	1	97	4	110
90 Y 166 S 107	.6	20	23	3	13	1	82	1	95
90 Y 166 S 108	.8	21	20	3	12	1	77	1	65
90 Y 166 S 109	.9	30	61	2	14	2	112	1	195
90 Y 166 S 110	.9	53	35	4	11	1	64	26	235
90 Y 166 S 111	1.7	13	20	2	9	1	140	2	70
90 Y 166 S 112	1.5	7	16	2	12	1	229	1	35
90 Y 166 S 113	1.5	6	23	1	13	1	208	1	75
90 Y 166 S 114	1.0	13	23	2	16	1	176	1	80
90 Y 166 S 115	1.2	6	26	3	9	1	129	2	135
90 Y 166 S 116	1.3	10	34	3	12	1	73	1	150
90 Y 166 S 117	.9	23	34	2	14	1	123	1	175
90 Y 166 S 118	1.7	8	29	2	6	1	100	2	170
90 Y 166 S 119	.5	5	29	2	12	1	86	2	225
90 Y 166 S 120	.5	3	14	1	16	1	44	1	320
90 Y 166 S 121	1.7	1	13	1	9	1	55	2	210
90 Y 166 S 122	1.2	1	35	2	14	1	121	4	170
90 Y 166 S 123	.8	6	25	4	13	1	61	2	115
90 Y 166 S 124	.5	1	24	1	16	1	132	3	140
90 Y 166 S 125	1.1	1	24	1	20	1	145	2	165
90 Y 166 S 126	.7	7	28	1	25	2	262	1	150
90 Y 166 S 127	.9	3	52	2	14	1	120	2	310
90 Y 166 S 128	.8	1	20	1	14	1	157	2	160
90 Y 166 S 129	.4	23	32	3	13	2	142	1	130
90 Y 166 S 130	.6	9	25	2	18	1	259	3	165
90 Y 166 S 131	1.2	13	94	5	21	1	75	2	810
90 Y 166 S 132	1.1	8	37	2	23	1	76	1	175
90 Y 166 S 133	2.9	1	15	1	4	1	167	3	105
90 Y 166 S 134	2.4	1	20	1	11	1	249	2	160
90 Y 166 S 135	1.4	6	17	1	19	1	293	1	80
90 Y 166 S 136	2.0	1	28	2	19	1	259	2	130
90 Y 166 S 137	.4	10	19	1	17	1	50	1	305
90 Y 166 S 138	.5	1	29	1	21	1	344	4	105
90 Y 166 S 139	1.1	20	44	3	27	3	228	1	155
90 Y 166 S 140	1.3	1	28	3	11	1	87	2	205
90 Y 166 S 141	1.6	1	37	2	17	1	299	1	215
90 Y 166 S 142	.8	17	70	3	22	3	113	3	215
90 Y 166 S 143	.5	10	26	6	11	1	103	1	115
90 Y 166 S 144	.6	9	37	4	13	1	81	2	150
90 Y 166 S 145	1.0	20	25	4	19	2	167	1	125
90 Y 166 S 146	.6	12	31	3	18	2	141	3	175
90 V 166 S 001	3.5	1	23	7	3	1	37	1	315
90 V 166 S 002	.7	7	12	4	13	3	66	2	5250





**APPENDIX VI**

**Statement of Qualifications**



## STATEMENT OF QUALIFICATIONS

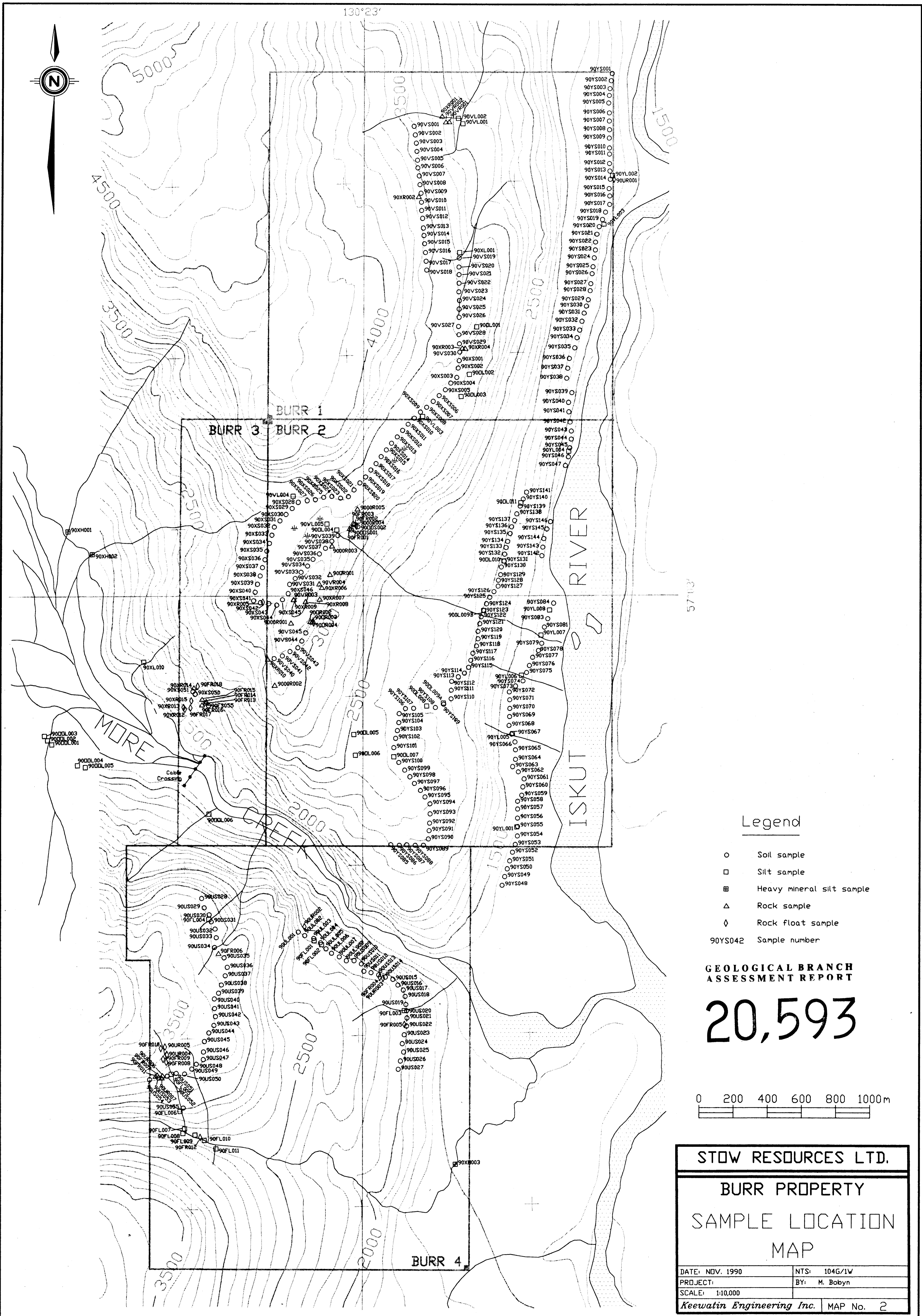
I, MARTIN, G. BOBYN, of 1705 32nd Avenue S.W., in the City of Calgary, in the Province of Alberta, do hereby certify that:

- 1) I am a graduate of the University of Saskatchewan in Geological Sciences (1987) and have practised my profession continuously since graduation.
- 2) I have over five years of experience in exploration for base metals in British Columbia, Saskatchewan, Manitoba and Newfoundland.
- 3) I am an independent consulting geologist with offices at 1705 - 32nd Avenue, S.W., Calgary, Alberta.
- 4) I am presently under contract to Keewatin Engineering Inc. with offices at 800 - 900 West Hastings Street, Vancouver, British Columbia.
- 5) This report is based on work by myself and others between the period May 1990 - December, 1990.
- 6) I am the author of the report entitled "Assessment Report on Geological Mapping, Prospecting, Rock, Soil and Stream Sampling of the Burr 1-4 Claim Group, Liard Mining Division, British Columbia" dated December 3, 1990.
- 7) I do not own or expect to receive any interest (direct, indirect or contingent) in the property described herein nor in the securities of Stow Resources Ltd. in respect of services rendered in the preparation of this report.

Dated at Vancouver, British Columbia this 3rd day of December, 1990.

Respectfully submitted,

  
\_\_\_\_\_  
Martin G. Bobyn, B.Sc.

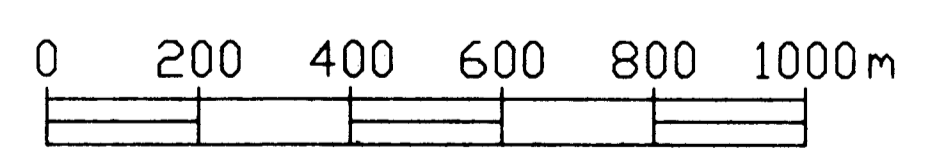


**Legend**

- Soil sample
- Silt sample
- ⊠ Heavy mineral silt sample
- △ Rock sample
- ◇ Rock float sample
- 90YS042 Sample number

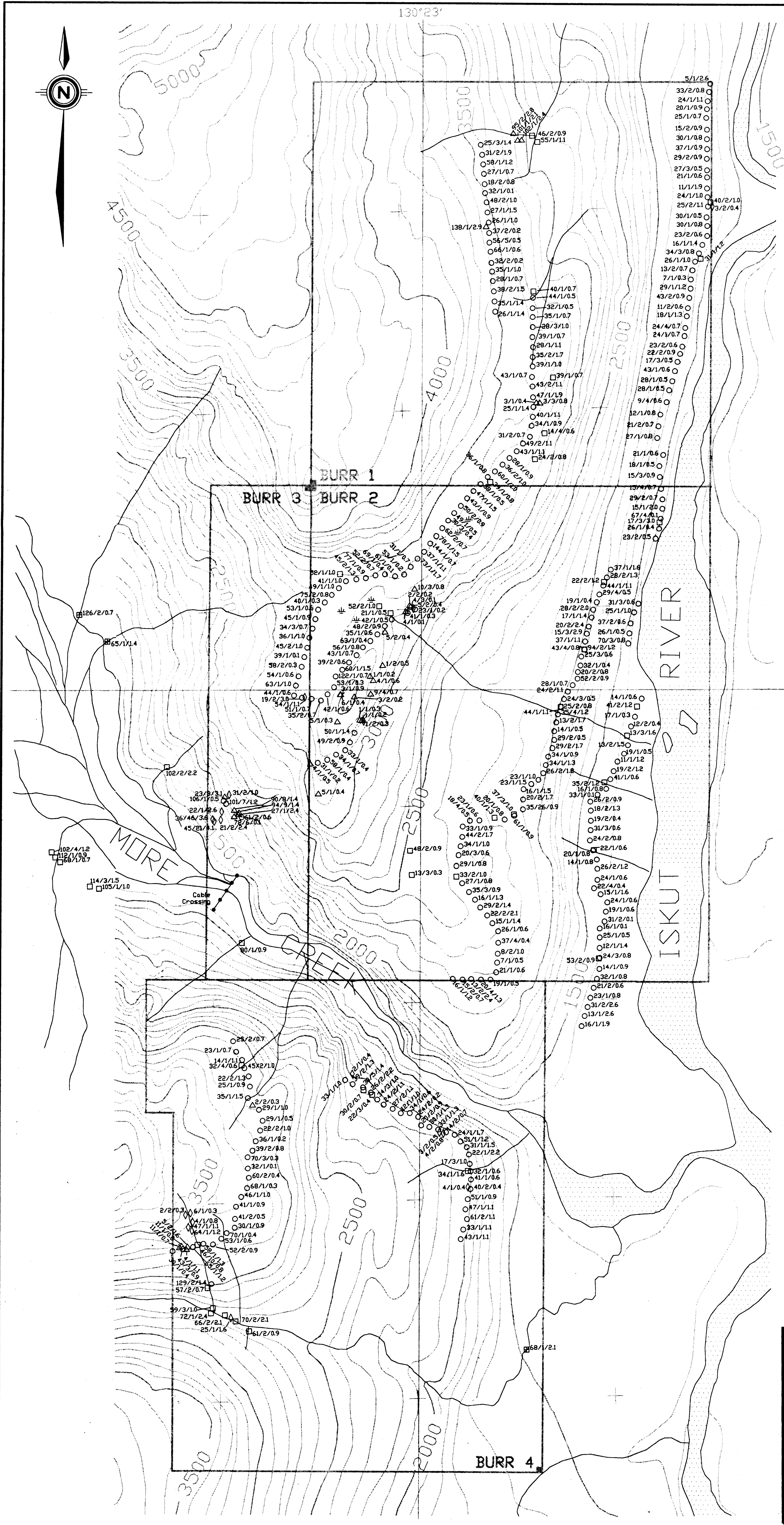
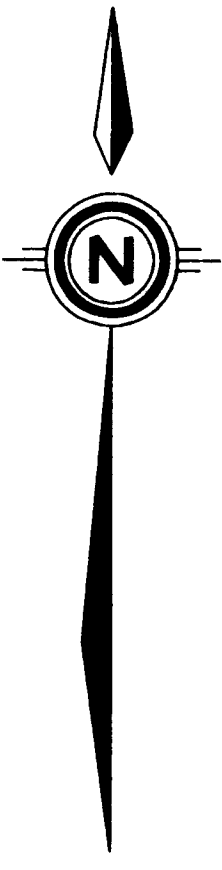
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**20,593**



<b>STOW RESOURCES LTD.</b>	
<b>BURR PROPERTY</b>	
<b>SAMPLE LOCATION</b>	
<b>MAP</b>	
DATE: NOV. 1990	NTS: 104G/1W
PROJECT:	BY: M. Bobyn
SCALE: 1:10,000	
Keewatin Engineering Inc. MAP No. 2	

130°23'



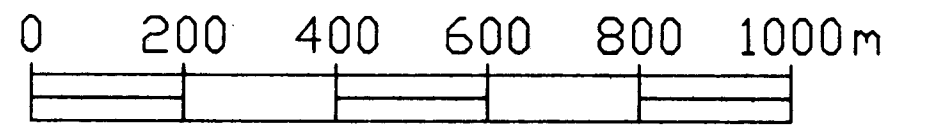
57°03'

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

# 20,593

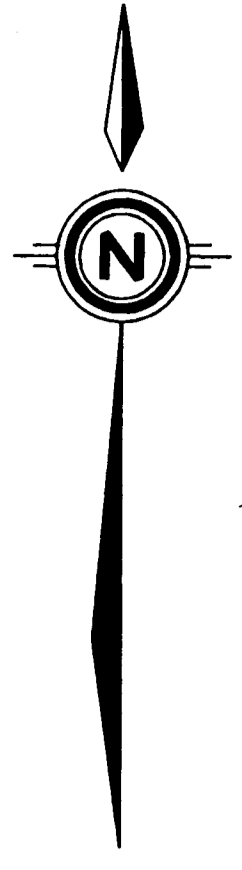
Legend

- Soil sample
  - Silt sample
  - ⊞ Heavy mineral silt sample
  - △ Rock sample
  - ◇ Rock float sample
- 75/15/1.8 Cu(ppm)/Au(ppb)/Ag(ppm)



STOW RESOURCES LTD.	
Burr Property	
GEOCHEMISTRY	
(Cu/Au/Ag)	
DATE: NOV. 1990	NTS: 104G/1W
PROJECT:	BY: M. Bobyn
SCALE: 1:10,000	
Keewatin Engineering Inc.	MAP No. 3

130°23'



### Legend

- JURASSIC - CRETACEOUS/TERTIARY
- 3 Felsite/Rhyolite  
-fine grained, massive and orbicular
- UPPER TRIASSIC
- 2 Sediments  
-siltstones, greywackes, conglomerates; interbedded  
-minor limestone
  - 1 Volcanic Flows and Tuffs  
-intermediate to mafic  
-variably feldspar porphyritic

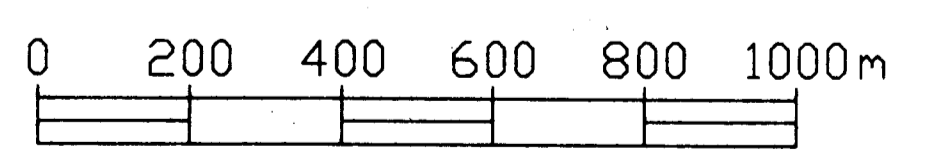
### Symbols

- Bedding
  - ↗ Foliation
  - Fracture / Jointing
  - ↔ Shear / Fault orientation
  - ~ Shear / Fault
  - Outcrop
  - Geological contact; assumed
- Qtz Quartz  
Py Pyrite  
Carb Carbonate  
Chlor Chlorite

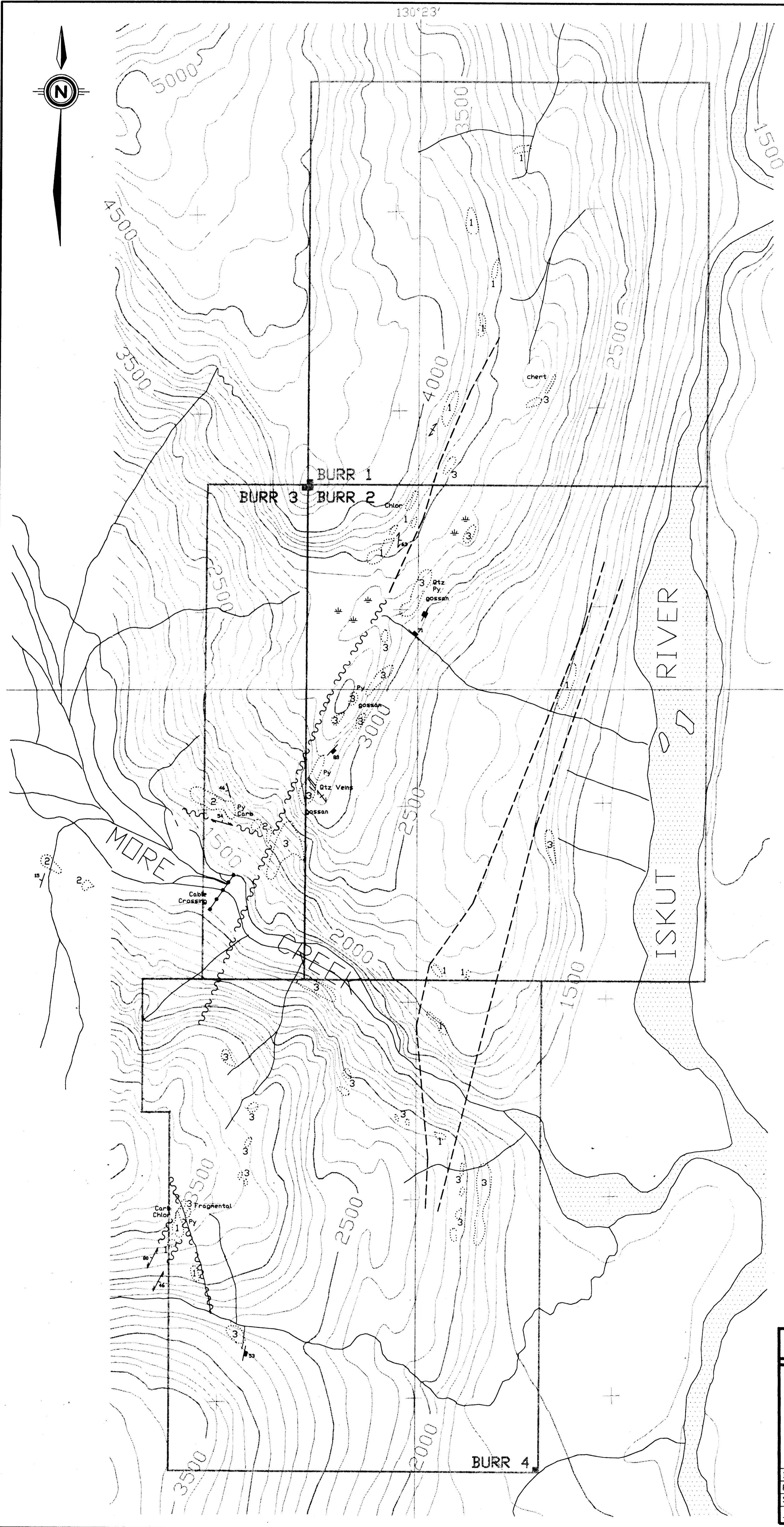
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

# 20,593

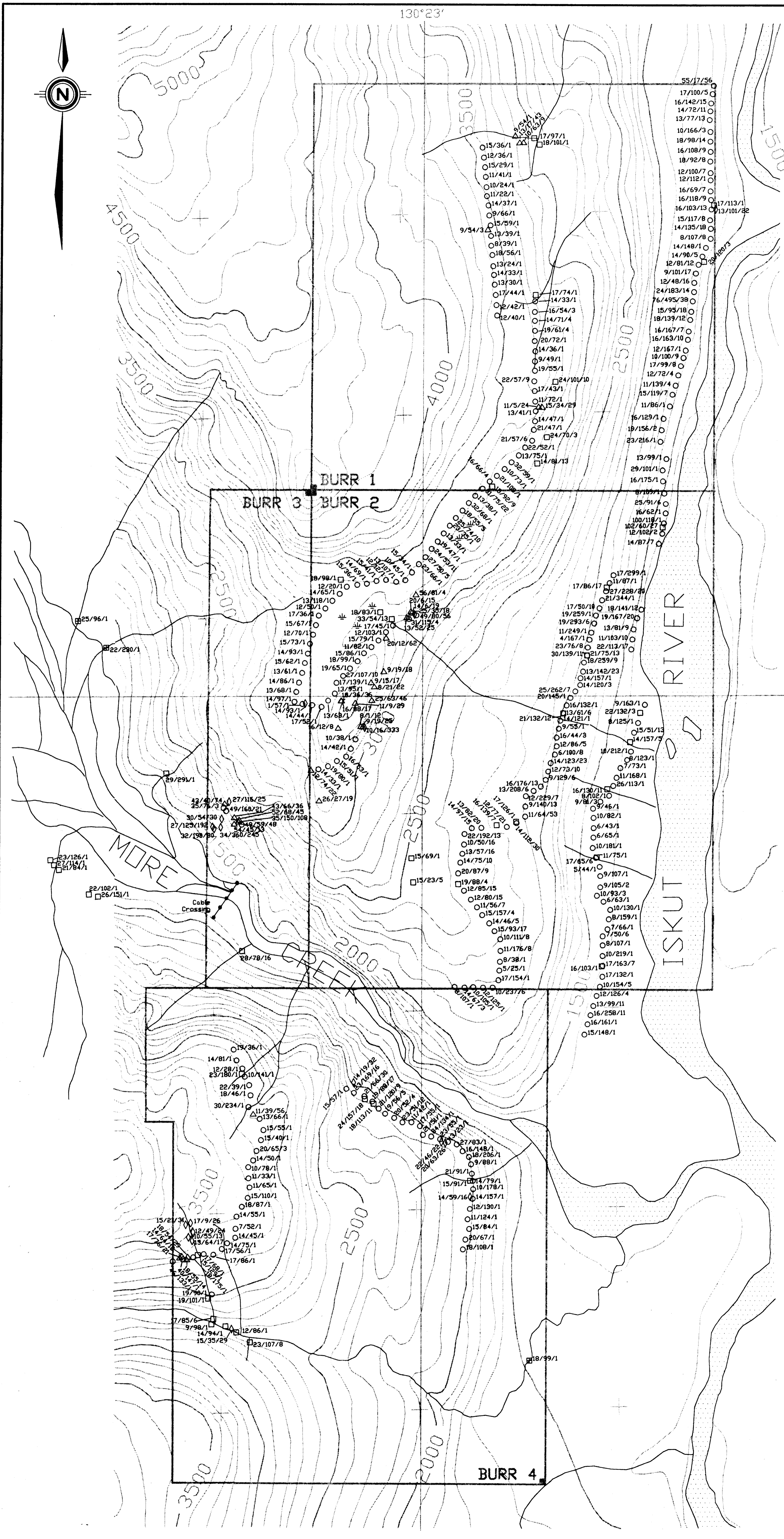
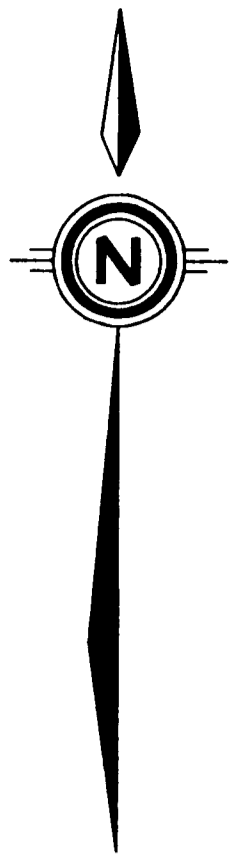
57°03'



STOW RESOURCES LTD.	
BURR PROPERTY	
GEOLOGY	
DATE: NOV. 1990	NTS: 104G/1W
PROJECT:	BY: M. Bobyn
SCALE: 1:10,000	
Keewatin Engineering Inc.	MAP No. 1



130°23'

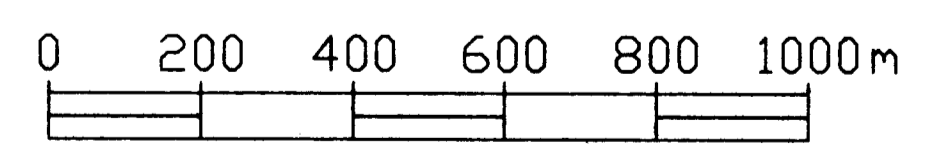


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

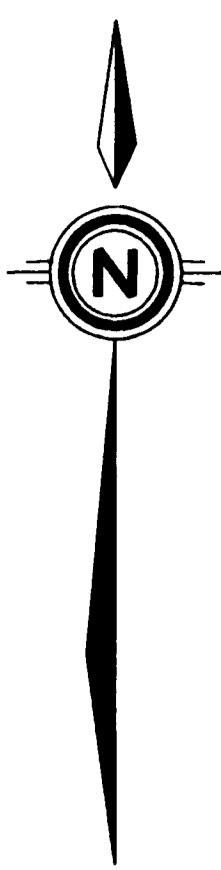
20,593

Legend

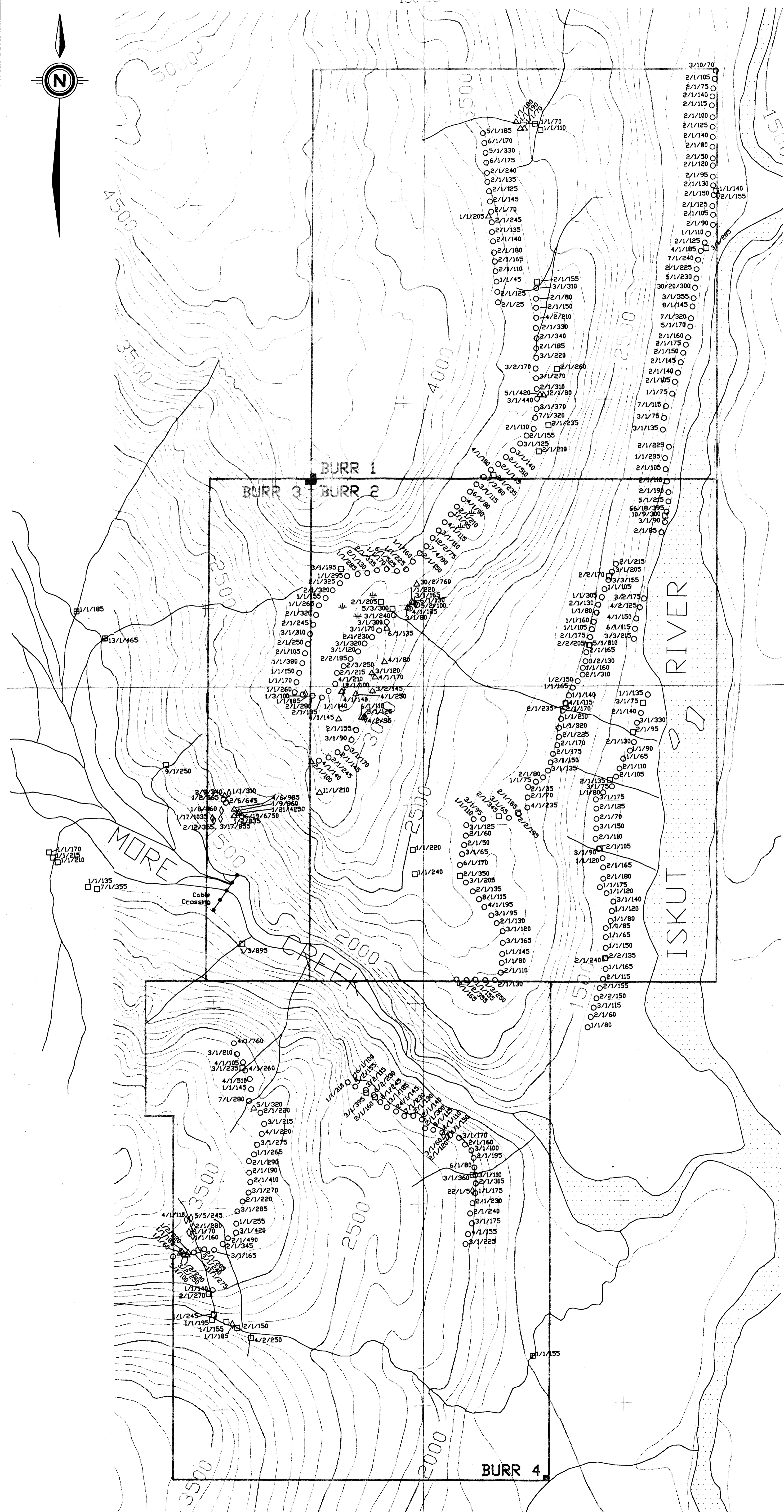
- Soil sample
  - Silt sample
  - ⊞ Heavy mineral silt sample
  - △ Rock sample
  - ◇ Rock float sample
- 45/225/65 Pb(ppm)/Zn(ppm)/As(ppm)



<b>STOW RESOURCES LTD.</b>	
<b>BURR PROPERTY</b>	
<b>GEOCHEMISTRY</b>	
<b>(Pb/Zn/As)</b>	
DATE: NOV. 1990	NTS: 104G/1W
PROJECT:	BY: M. Bobyn
SCALE: 1:10,000	
Keewatin Engineering Inc. MAP No. 4	



130°23'

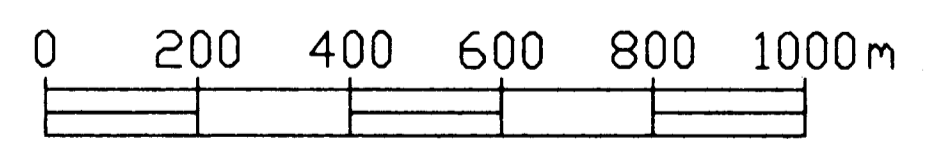


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

# 20,593

### Legend

- Soil sample
- Silt sample
- Heavy mineral silt sample
- △ Rock sample
- ◇ Rock float sample
- 6/5/325 Mo(ppm)/Sb(ppm)/Hg(ppb)



STOW RESOURCES LTD.	
Burr Property GEOCHEMISTRY (Mo/Sb/Hg)	
DATE: NOV. 1990	NTS: 104G/1W
PROJECT:	BY: M. Bobyn
SCALE: 1:10,000	
Keewatin Engineering Inc.	MAP No. 5