

LOG NO: OCT 08 1991	RD.
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REPORT ON THE  
JOHN'S GIFT 1-2 MINERAL CLAIMS  
1990 PROSPECTING PROGRAM

**SUB-RECORDER  
RECEIVED**  
SEP 27 1991  
M.R. # ..... \$.....  
VANCOUVER, B.C.

ISKUT RIVER AREA  
LIARD MINING DIVISION  
BRITISH COLUMBIA

56°59' NORTH LATITUDE  
130°49' WEST LONGITUDE  
N.T.S. 104B/15

*Work Period:* August 1990 to September 1990

*Owner and  
Operator:* KESTREL RESOURCES LTD.  
507 - 675 West Hastings Street  
Vancouver, B.C.  
V6B 1N2  
(604) 683-9177

*By:* S. J. Tennant

September 15, 1991  
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,697**

## TABLE OF CONTENTS

	Page
INTRODUCTION .....	1
LOCATION, ACCESS AND TOPOGRAPHY .....	1
PROPERTY AND LIST OF CLAIMS .....	2
AREA HISTORY .....	2
REGIONAL GEOLOGY .....	3
PROPERTY GEOLOGY .....	5
1990 EXPLORATION PROGRAM .....	5
DISCUSSION OF RESULTS .....	6
RECOMMENDATIONS .....	7
BIBLIOGRAPHY .....	8
STATEMENT OF QUALIFICATIONS .....	9
PROGRAM COSTS .....	10

### List of Figures

Figure 1	Index Map	
Figure 2	Claim Map; Scale 1:50,000	
Figure 3	Regional Geology; Scale 1:250,000	
Figure 4	Sample Location Map; Scale 1:10,000	In pocket

### List of Appendices

Appendix I	Sample Assay Results
Appendix II	Sample Descriptions

## INTRODUCTION

The JOHN'S GIFT mineral claims are located approximately 15 kilometres north-northeast of Newmont Lake within the Liard Mining Division of northwestern British Columbia.

The claims are accessible by helicopter from a base camp at the Forrest Kerr airstrip, located 8 kilometres to the south.

A preliminary program of prospecting and sampling was carried out on the JOHN'S GIFT mineral claims during the summer of 1990, to evaluate the mineral potential of the property.

A total of 43 soil samples, 6 silt samples, and 15 rock chip samples were collected and the results are discussed in the text of this report. The data are plotted on the accompanying map.

## LOCATION, ACCESS AND TOPOGRAPHY

The claims are located approximately 15 kilometres north-northeast of Newmont Lake within the Liard Mining Division of Northwestern British Columbia. Access to the property is via fixed wing aircraft from Smithers or Terrace to Bronson, which is located 110 kilometres northwest of Stewart, or the Forrest Kerr airstrip located at the headwaters of the Forrest Kerr River. Access from Bronson or Forrest Kerr is via helicopter and via foot traverse within the claims.

Most of the property is accessible by foot or helicopter. Elevations range from 550 metres to 1820 metres A.S.L. Above 1,200 metres the claims are devoid of vegetation except grasses and shrubs, and exhibit abundant outcrop. Below 1,200 metres, the usual coast mountain evergreens, alder and devil's club predominate. Precipitation exceeds 4,000 millimetres annually; temperatures range from -40°C to +25°C.

## PROPERTY AND LIST OF CLAIMS

The JOHN'S GIFT prospect consists of the following modified grid claims wholly owned by Kestrel Resources Ltd.:

<u>Claim Name</u>	<u>Record No.</u>	<u>No. of Units</u>	<u>Record Date</u>	<u>Expiry Date</u>
John's Gift-1	7549	20	June 28, 1990	June 28, 1992
John's Gift-2	7550	20	June 28, 1990	June 28, 1992

So far as the writer is aware, the claims were properly staked and recorded and are in good standing by the expiry dates.

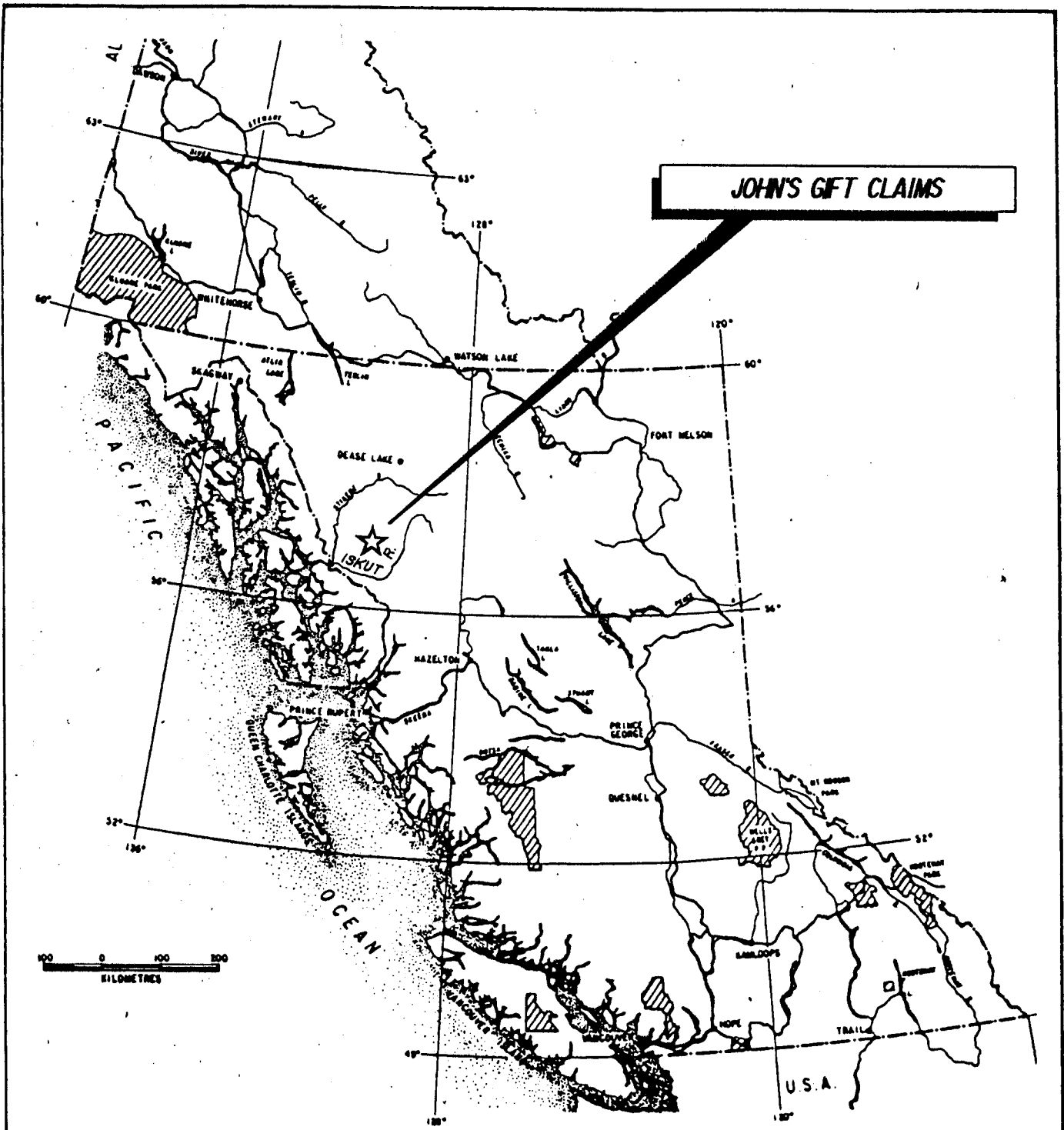
## AREA HISTORY

The first recorded work from the Iskut River region was in 1907 when a staking party from Wrangell, Alaska recorded nine mineral claims north of Johnny Mountain. The Iskut Mining Company worked the claims and in 1917 shipped a ton of high grade ore which reportedly assayed \$1.20 gold, 44.2 ounces silver and 12.45% copper (B.C.M.M.A.R., 1917).

In 1954 Hudson Bay Mining and Smelting Limited discovered high grade gold-silver-lead-zinc mineralization, known as the "Pickaxe" showing, on the slopes of Johnny Mountain.

Throughout the 1960's several major mining companies undertook reconnaissance prospecting and exploration programs in search for porphyry copper-molybdenum deposits resulting in the location of several claims on Johnny Mountain and on Sulphurets Creek.

Skyline Exploration Limited staked the Inel property in 1969 following the discovery of massive sulphide in float on the Bronson Creek glacier. In 1980 the company staked the Reg property. During the 1980's, Skyline has developed both these



**JOHN'S GIFT CLAIMS**

0 100 200  
KILOMETRES

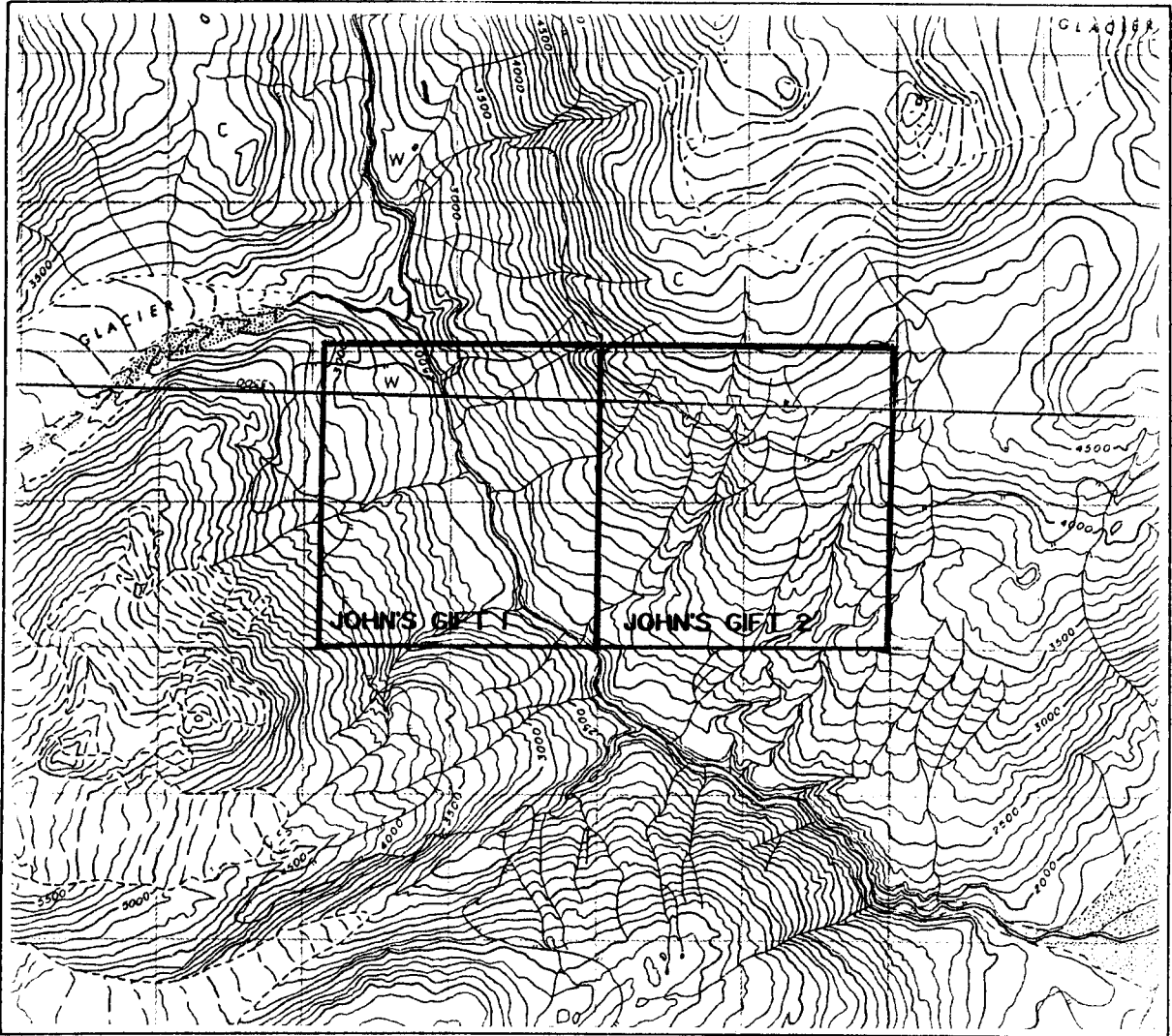


**KESTREL RESOURCES LTD.**

**LOCATION MAP**  
**LIARD MINING DIVISION, B.C.**

**STU TENNANT**

SCALE: NOTED	DATE: APRIL 91	MAP: 1	M.T.S. 104B/15
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<b>KESTREL RESOURCES LTD.</b>			
JOHN'S GIFT 1-2 CLAIMS LIARD MINING DIVISION, B.C.			
CLAIM MAP			
STU TENNANT			
DATE	SEPTEMBER 1991	SCALE	1 : 50000
NTS	104 B/15	FIGURE	2

properties discovering high grade veins and polymetallic massive sulphide mineralization on the Inel and Reg properties.

The joint venture partners of Cominco Ltd. and Prime Resources Corporation have developed their Snip property which is located immediately north of the Reg property on the northern slopes of Johnny Mountain. The combined geological reserve for the Snip property is 1,000,000 tons grading 0.80 opt gold.

Other advanced prospects currently undergoing intense exploration efforts in the area include Gulf International Mineral Ltd.'s Inel and McIymont properties, Placer Dome Ltd.'s Kerr porphyry copper-gold deposit and Calpine's Eskay Creek gold deposit, as well as the redevelopment of the Silback Premier/Big Missouri mines by Westmin.

The discovery of the Eskay Creek gold prospect in November 1988 has done much to stimulate exploration activity in the Iskut region. Drill hole intersections varying from 5 to 10 metres (16 to 33 feet) and grading to 100 grams gold per tonne (2.92 opt) with an average 1,000 grams or more of silver per tonne (29.2 opt), are not uncommon. The Eskay Creek deposit is probably the most significant precious metal deposit discovered in British Columbia.

Recently completed road access studies has resulted in a proposed shared cost road which would commence at the Stewart-Cassiar highway near Bob Quinn Lake and extend into the Iskut Valley.

### **REGIONAL GEOLOGY**

Generally the area consists of a northerly trending succession of Upper Triassic and Jurassic volcanic and sedimentary rocks underlain in part by Paleozoic volcanic and sedimentary units. All of these units have been intruded by Mesozoic and Tertiary intrusive rocks and cut by extensive fault zones. These country rocks form the Stewart Complex bounded on the west by the main Coast Plutonic Complex, and on the east by the Bowser Basin sedimentary assemblage.

Since 1948, Government workers have attempted to clarify relationships and assign ages to various lithological units of the area. Work completed by Kerr, 1948, G.S.C. Memoir 246; G.S.C. maps 9-1957, 1481-1979-Iskut River, and Grove, E.W., 1986, Bulletin No. 58 B.C. Department of Mines, form the basis of earlier government mapping. Recently work completed by the G.S.C. - Open File o. 2094 (1989) and the B.C. Department of Mines Open File 1990-2 has greatly enhanced the geological data base.

The oldest known rock of the area are limestone, dolomite and low grade metamorphosed sediments (quartzite, slate, phyllite) of Lower Cambrian age that have been correlated with the Cache Creek Group prevalent in the southern half of the province. The limestone unit contains fossil crinoids and is unconformably overlain by Upper Triassic Hazelton volcanics and sediments.

Overlying the Triassic Hazelton volcanic-sedimentary assemblage is a similar group of volcanic-sedimentary rocks of Middle Jurassic age tentatively named the Betty Creek Formation.

Cretaceous to Tertiary Coast Plutonic intrusions of granite, granodiorite and diorite occupy large portions of the map area. In addition, smaller bodies of monzonite or syenite, as well as subvolcanic acidic porphyries, are sparsely distributed.

Tufa, hot spring deposits and pyroclastic material of Pleistocene and Recent age occur at several localities within the area, notably at Hoodoo Mountain.

The foliated rocks, present in the area, are not of great lateral extent and owe their origin to low grade metamorphism, rather than high temperature regional metamorphism.

Structurally, the map area is bisected by a prominent thrust fault along the Iskut River from Forrest Kerr Creek to the Stikine River Junction. The thrust separates unconformably, Mississippian-Pennsylvanian rocks from middle Jurassic strata and is thought to override rock formations to the south. Regionally, a dominant northeast trending and a subdominant northwest trending faulting system complicate the local geology, especially where folding of the strata, which is common, has occurred.





## LEGEND

### QUATERNARY

**Qal** TILL, ALLUVIUM

### STRATIFIED ROCKS

#### MIDDLE TO UPPER JURASSIC BOWSER LAKE GROUP

**JBp** SILTSTONE, SANDSTONE, MINOR CONGLOMERATE

#### JURASSIC

**Ju** UNMODIFIED VOLCANICS AND SEDIMENTS

**Jlw** SILICEOUS WACKE, TUFF, CONGLOMERATE

**Jvb** PILLOW BASALT, BRECCIA FLOWS, SILICEOUS SEDIMENTS

**Jpl** SHALE, SANDSTONE, LESSER LIMESTONE, TUFF

#### UPPER TRIASSIC STUHIHI GROUP

**uRv1** MAROON AND GREEN EPICLASTICS, ALKALINE AND PLAGIOCLASE-PHYRIC VOLCANIC BRECCIAS

**uRvp** DARK GREEN PLAGIOCLASE-PHYRIC FLOWS

**uRvs** GREY-GREEN APHANITIC TUFF

**uRw** TUFFACEOUS WACKE, ARGILLITE, LIMESTONE, CONGLOMERATE WITH LIMESTONE CLASTS, PLAGIOCLASE-PORPHYRITIC ANDESITE

#### MIDDLE TRIASSIC

**mTn** CARBONACEOUS CALCAREOUS SILTSTONE

#### PALEOZOIC STIKINE ASSEMBLAGE

**Pu** UNMODIFIED METAVOLCANICS AND METASEDIMENTS

#### WESTERN ASSEMBLAGE

##### PERMIAN

**Pv1** FELSIC WELDED TUFF, VOLCANIC SANDSTONE AND SILTSTONE, RHYOLITE FLOWS

**Pc2** THIN-LAMINATED, GREY ALGAL LIMESTONE

**Pvb** INTERMEDIATE TUFF AND EPICLASTICS, MAROON LAHAR, BRECCIA FLOWS

**Pc1** MEDIUM-BEDDED BIOCLASTIC LIMESTONE WITH CHERTY INTERBEDS

##### MISSISSIPPIAN

**Mip** SILTSTONE, SANDSTONE, TURBIDITES, LESSER LAPILLI TUFF

**Mcp** POLYGENIC VOLCANIC CONGLOMERATE

**Mcl** INTERBEDDED SILICEOUS SILTSTONE AND LIMESTONE, THICK-BEDDED CARBONACEOUS CALCARENITE

**Mv** PILLOW BASALT, HYALOCLASTITE, ASH-FLOW FELSIC TUFF

#### EASTERN ASSEMBLAGE

##### PERMIAN

**Pic** INTERMEDIATE TO MAFIC META-TUFF, THIN-BEDDED LIMESTONE AND METASEDIMENTS

**Pc** MEDIUM-BEDDED BIOCLASTIC LIMESTONE

##### PERMIAN AND OLDER

**Pms** SILICEOUS TURBIDITES, PHYLITES, LESSER CHERTY TUFFS

**Pmv** MAFIC TO FELSIC METAVOLCANICS, METASEDIMENTS, LIMESTONE LENSES

##### LOWER DEVONIAN

**lDc** LIMESTONE, SILICEOUS TUFF

### INTRUSIVE ROCKS

#### CRETACEOUS AND YOUNGER (?)

**Kp** PLAGIOCLASE QUARTZ PORPHYRY

#### JURASSIC

**Jg** PINK HORNBLende BIOTITE GRANITE

**Jqm** QUARTZ MONZONITE

**Jd** HORNBLende DIORITE, HORNBLende QUARTZ DIORITE

#### EARLY JURASSIC

**eJm** HORNBLende-PLAGIOCLASE-PORPHYRITIC MONZONITE, SYENITE

#### PALEOZOIC

**lDd** DEFORMED HORNBLende QUARTZ DIORITE

#### UNKNOWN

**A** ALTERED DIORITE

## **PROPERTY GEOLOGY**

Open File Report No. 1990-2 - Geology, Geochemistry and Mineral Occurrences of the Forrest Kerr-Iskut River Area, Northwestern British Columbia, prepared by the British Columbia Department of Mines and released in the winter of 1990 describes the geology of the JOHN'S GIFT claims at a scale of 1:50,000. The claims lie on the northern edge of the Forrest Kerr-Iskut River map sheet.

Figure 4 shows that the majority of the claims are underlain by undivided metavolcanics and metasediments of Paleozoic age. A pink, coarse- to medium-grained biotite granite outcrops in the eastern half of JOHN'S GIFT 2.

## **1990 EXPLORATION PROGRAM**

The 1990 exploration program was undertaken to assess the exploration potential of the property. The field program was conducted during August-September.

Access was via helicopter (provided by Northern Mountain Helicopters), from a base camp at the Forrest Kerr airstrip, some 8 kilometres to the south. Field work was conducted by employees of Kestrel Resources Ltd. under the supervision of the author. A total of 43 soil samples, 6 silt samples, and 15 rock chip samples were collected.

All samples were properly bagged, described and labelled in the field. Later they were shipped by air and ground freight to Vangeochem Lab Ltd. in Vancouver, B.C. for analysis under the supervision of professional assayers. All of the samples were analyzed for gold, using fire assay and atomic absorption procedures, and for a 25-element suite by inductively coupled argon plasma (ICAP), methods.

Prospecting traverses and all sample locations are shown on Figure 4 of this report. The analytical results and sample descriptions accompany this report as Appendices I and II respectively.

## DISCUSSION OF RESULTS

A total of 7 man days were spent prospecting the JOHN'S GIFT claims. Majority of the claims are underlain by undivided Paleozoic metavolcanics and metasediments. The eastern part of the claim block consists of a pink biotite granite.

Assay results of the samples did not return significant values in base or precious metals. The highest gold value obtained was 1040 ppb in sample 92562. The sample was taken from an angular piece of quartz float which contained some minor pyrite.

Values obtained in the soil samples are typical of the area generally. Due to the high elevations (1200 to 1800 metres) within a glacial environment, soil profiles are poorly developed consisting of loosely consolidated and partly transported rock fragments (2 to 6 cm) rather than the typical A-B-C soil horizons developed in more favourable climates. In the geochem samples, background values for Au vary from 5 ppb to about 10 ppb and similarly, for Ag, background values vary from 0.1 ppm to 1.0 ppm.

Although the 1990 sampling did not delineate any anomalous zones, the claims do have some potential in that they are situated adjacent to the southern boundary of the Gla 2-3 mineral claims. Exploration on the Gla 2-3 claims have located several areas of geologically and mineralogically anomalous zones. One zone on the boundary between the Gla 2 and John's Gift 1 is an extensive area of hornfels alteration containing notable blebs of pyrite and pyrrhotite. Samples taken in the general area assayed up to 910 ppb Au and 46 ppm Ag. This part of the John's Gift 1 claim warrants further investigation.

## RECOMMENDATIONS

Although the 1990 sampling did not delineate any anomalous zones, the potential of the JOHN'S GIFT claims lie in the fact that they are located adjacent to the southern boundary of the Gla 2-3 claims.

The northern boundary of the JOHN'S GIFT claims should be further investigated, in particular, the extensive area of hornfels alteration which contains anomalous values in gold and silver. A program consisting of geological mapping and sampling should be carried out to correlate with both geology and mineralization found on the adjacent Gla claims.

**BIBLIOGRAPHY**

Logan, J.M.; Koyanagi, Victor M.; Drobe, John R. Geology, Geochemistry and Mineral Occurrences of the Forrest Kerr-Iskut River Area, Northwestern British Columbia, Open File 1990-2, Ministry of Energy, Mines and Petroleum Resources, Geological Survey Branch.

GSC Open File No. 2094 (1989).

Kerr, 1984: GSC Memoir 246; GSC Maps 9 - 1957; GSC Maps 1481-1979 "Iskut River".

**STATEMENT OF QUALIFICATIONS**

I, STUART J. TENNANT, of Kestrel Resources Ltd., do hereby certify that:

1. I am a Geologist employed by Kestrel Resources Ltd. during the period October 1989 to present.
2. I am a graduate of the University of British Columbia with a B.Sc. in Geology in 1959.
3. From 1959 until present, I have been engaged in exploration primarily in Western Canada.
4. I personally supervised and participated in the field work and have compiled, reviewed and assessed the data resulting from the work.



**Stuart J. Tennant**

DATED at Vancouver, British Columbia, this 18<sup>th</sup> day of September, 1991.

## PROGRAM COSTS

S. Tennant Geologist	1 day @ \$325/day	\$ 325
C. Bilquist Prospector	1 day @ \$200/day	200
J. Elmore Prospector	1 day @ \$165/day	165
D. Legere Prospector	2 day @ \$165/day	330
M. Callaghan Prospector	2 days @ \$200/day	<u>400</u>
		<u>1,420</u>
<b><u>Field Expense</u></b>		
Room and Board	7 days @ \$125/day	875
Helicopter	1 hour @ \$800/hour	800
Assaying (Vangeochem Labs) 67 samples @ \$16/samples		1,072
Report		<u>183</u>
TOTAL COST		\$ <u>4,350</u>



**APPENDIX I**  
**Sample Assay Results**

REPORT NUMBER: 900411 GA

JOB NUMBER: 900411

SULLIVAN MANAGEMENT/KESTREL RES.

PAGE 1 OF 1

SAMPLE #	Ag	Au
	ppm	ppb
92562	nd	1040
92563	nd	10
92564	nd	nd
92565	nd	nd
92566	nd	nd
92567	nd	nd
92568	.2	nd
92569	nd	nd
92570	nd	30
92571	nd	20
92572	nd	30
92573	nd	30
92574	nd	20
92575	.1	20
92576	nd	20

DETECTION LIMIT            0.1       5  
 nd = none detected       -- = not analysed       is = insufficient sample

VANGEOCHEM LAB LIMITED

1630 Pandora Street, Vancouver, V5L 1L6  
 Ph: (604)251-5656 Fax: (604)204-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *[Signature]*

REPORT #: 900411 PA SULLIVAN MANAGEMENT / KESTREL RES. PROJECT: JOHNS GIFT DATE IN: SEPT 07 1990 DATE OUT: OCT 03 1990 ATTENTION: MR. TENNANT & MR. BUCHHOLZ PAGE 1 OF 1

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
92562	<0.1	0.33	<3	49	<3	0.16	0.3	6	131	28	2.58	0.06	0.02	100	<1	0.01	6	0.01	15	5	2	5	<5	<3	11
92563	<0.1	2.26	<3	79	<3	2.52	0.6	17	47	3	4.49	0.24	1.51	1566	9	0.03	15	0.09	<2	<2	8	20	<5	<3	92
92564	<0.1	1.17	<3	38	<3	0.85	<0.1	12	135	38	2.23	0.10	0.43	207	6	0.03	15	0.03	<2	<2	6	37	<5	<3	19
92565	<0.1	2.50	<3	44	<3	1.20	0.8	21	49	141	4.08	0.16	1.08	464	16	0.05	14	0.03	24	<2	13	32	<5	<3	52
92566	<0.1	2.23	<3	77	<3	1.62	1.7	23	103	77	3.17	0.16	0.67	503	11	0.04	32	0.03	<2	<2	11	17	<5	<3	171
92567	<0.1	1.71	<3	48	<3	0.97	1.0	21	39	46	3.24	0.12	0.88	315	10	0.04	14	0.04	<2	<2	11	14	<5	<3	54
92568	0.2	0.59	<3	120	<3	4.07	2.1	12	29	32	3.97	0.25	1.28	791	7	0.02	8	0.02	19	3	5	79	<5	<3	65
92569	<0.1	0.95	<3	64	<3	0.67	0.4	17	23	88	2.61	0.09	0.51	267	6	0.04	8	0.04	<2	<2	10	16	<5	<3	24
92570	<0.1	1.37	<3	73	<3	0.27	0.3	25	71	194	3.81	0.09	0.68	467	7	0.03	3	0.04	<2	<2	8	8	<5	<3	50
92571	<0.1	1.89	<3	73	<3	0.61	0.7	34	37	333	4.69	0.15	1.05	734	11	0.03	8	0.04	<2	<2	11	12	<5	<3	67
92572	<0.1	2.02	<3	106	<3	0.13	0.5	13	77	114	4.23	0.09	1.07	1067	10	0.03	6	0.04	<2	<2	8	3	<5	<3	118
92573	<0.1	2.22	<3	104	<3	0.38	0.3	38	40	129	4.54	0.12	1.18	979	9	0.02	7	0.03	<2	<2	10	28	<5	<3	76
92574	<0.1	1.80	<3	84	<3	0.41	0.5	43	58	234	5.25	0.13	0.92	824	7	0.03	4	0.04	<2	<2	11	32	<5	<3	75
92575	0.1	0.58	<3	31	<3	2.43	12.9	27	33	47	>10.00	1.35	0.07	1511	33	0.10	18	0.04	152	108	31	3	17	<3	137
92576	<0.1	0.14	<3	38	<3	0.03	<0.1	3	200	41	1.17	<0.01	0.05	171	1	<0.01	5	<0.01	9	7	<2	1	<5	<3	16

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1  
 Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000  
 < - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

IMPRIMÉ AU CANADA

PRODUCE BY MATHIDA

REPORT NUMBER: 900389 GA

JOB NUMBER: 900389

SULLIVAN MANAGEMENT/KESTREL RES.

PAGE 1 OF 1

SAMPLE #	Ag ppm	Au ppb
REST-5 L1 0+00S	.3	15
REST-5 L1 0+50S	.2	10
REST-5 L1 1+00S	.2	nd
REST-5 L1 1+50S	.1	15
REST-5 L1 2+00S	.1	15
REST-5 L1 2+50S	.2	5
REST-5 L1 3+00S	.5	nd
REST-5 L1 3+50S	.6	15
REST-5 L1 4+00S	.5	20
REST-5 L1 4+50S	.5	nd
REST-5 L1 5+00S	.5	nd
REST-5 L1 5+50S	.2	15
REST-5 L1 6+00S	.2	nd
REST-5 L1 6+50S	.5	30
REST-5 L1 7+00S	.2	5
REST-5 L1 7+50S	.4	15
REST-5 L1 8+00S	1.0	25
REST-5 L1 8+50S	1.2	15

DETECTION LIMIT  
 nd = none detected

0.1 5  
 -- = not analysed

is = insufficient sample

VANGEOCHEM LAB LIMITED

1620 Pandora Street, Vancouver, B.C. V5L 1L5  
 PH: (604) 251-5656 FAX: (604) 251-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *[Signature]*

REPORT #: 900389 PA SULLIVAN MANAGEMENT / KESTREL RES. PROJECT: REST-5 DATE IN: SEPT 05 1990 DATE OUT: OCT 04 1990 ATTENTION: MR. JOHN BUCHHOLZ PAGE 1 OF 1

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
REST-5 LI 0+00S	0.3	2.56	<3	175	<3	0.79	2.7	25	39	913	4.78	0.16	1.33	1932	20	0.04	30	0.08	19	<2	13	48	<5	<3	107
REST-5 LI 0+50S	0.2	3.67	<3	92	<3	0.64	2.0	26	42	345	4.86	0.14	1.33	1293	22	0.04	28	0.05	<2	<2	15	44	<5	<3	87
REST-5 LI 1+00S	0.2	2.72	<3	76	<3	0.66	1.8	23	34	248	4.41	0.14	1.41	1085	21	0.04	23	0.08	4	<2	12	40	<5	<3	97
REST-5 LI 1+50S	0.1	2.06	<3	86	<3	0.72	1.4	21	27	180	4.15	0.14	1.19	1128	14	0.04	14	0.08	10	<2	11	43	<5	<3	75
REST-5 LI 2+00S	0.1	2.54	<3	87	<3	0.90	2.2	31	28	310	4.68	0.17	1.28	1086	21	0.04	17	0.07	28	<2	12	43	<5	<3	123
REST-5 LI 2+50S	0.2	3.06	<3	99	<3	0.68	2.2	26	32	288	4.36	0.15	1.39	1344	17	0.04	25	0.08	4	<2	13	44	<5	<3	100
REST-5 LI 3+00S	0.5	1.89	<3	63	<3	0.38	2.2	15	29	56	5.34	0.11	0.42	835	21	0.04	7	0.09	27	<2	13	28	<5	<3	59
REST-5 LI 3+50S	0.6	2.60	<3	49	<3	0.34	1.4	12	24	43	4.61	0.10	0.35	291	18	0.03	2	0.07	15	<2	14	31	<5	<3	40
REST-5 LI 4+00S	0.5	5.89	<3	56	<3	0.32	2.4	32	50	196	6.77	0.15	0.34	5056	73	0.05	6	0.27	<2	<2	22	15	<5	<3	96
REST-5 LI 4+50S	0.5	2.76	<3	104	<3	0.35	3.2	19	26	49	7.47	0.14	0.60	979	23	0.05	6	0.07	25	<2	16	31	<5	<3	79
REST-5 LI 5+00S	0.5	3.46	<3	131	<3	0.32	3.2	20	41	79	7.01	0.15	1.14	785	28	0.05	22	0.05	15	<2	17	29	<5	<3	247
REST-5 LI 5+50S	0.2	3.19	<3	42	<3	0.33	3.1	19	32	56	7.61	0.14	0.71	1394	34	0.05	3	0.10	74	<2	17	27	<5	<3	106
REST-5 LI 6+00S	0.2	1.88	<3	46	<3	0.27	2.0	10	14	31	4.60	0.09	0.38	475	17	0.03	<1	0.06	11	<2	11	29	<5	<3	46
REST-5 LI 6+50S	0.5	3.71	<3	51	<3	0.45	2.0	25	24	69	4.47	0.11	0.90	964	21	0.03	6	0.05	53	<2	15	37	<5	<3	70
REST-5 LI 7+00S	0.2	2.36	<3	53	<3	0.41	2.2	15	25	47	7.12	0.14	0.60	484	44	0.05	6	0.05	20	<2	14	34	<5	<3	64
REST-5 LI 7+50S	0.4	3.17	<3	105	<3	0.50	3.1	28	33	77	6.32	0.16	1.28	2191	23	0.06	14	0.09	33	<2	15	33	<5	<3	308
REST-5 LI 8+00S	1.0	3.46	<3	80	<3	1.98	2.0	15	22	40	5.78	0.24	0.63	1204	27	0.05	5	0.03	74	<2	17	28	<5	<3	114
REST-5 LI 8+50S	1.2	2.48	<3	66	<3	0.32	2.4	14	20	51	6.67	0.13	0.41	558	30	0.05	<1	0.05	27	<2	15	29	<5	<3	60

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1  
 Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000  
 < - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

REPORT NUMBER: 900388 GA

JOB NUMBER: 900388

SULLIVAN MANAGEMENT/KRSTREL RES.

PAGE 1 OF 2

SAMPLE #	Ag ppm	Au ppb
REST L2 1+50S A1	.2	10
REST L2 3+00S A2	nd	10
REST L2 3+75S A3	.1	5
REST L2 11+20S A4	nd	15
REST L2 12+00S A5	nd	25
REST L2 13+50S A6	.2	nd
REST L2 0+00S	.1	20
REST L2 0+50S	.2	nd
REST L2 1+00S	nd	10
REST L2 2+00S	nd	nd
REST L2 2+50S	nd	nd
REST L2 3+00S	nd	nd
REST L2 3+50S	nd	10
REST L2 4+00S	nd	20
REST L2 4+50S	nd	5
REST L2 5+00S	.4	5
REST L2 5+50S	.2	nd
REST L2 6+50S	.1	5
REST L2 7+00S	nd	15
REST L2 7+50S	nd	5
REST L2 8+00S	.1	15
REST L2 8+50S	.8	nd
REST L2 9+00S	.3	5
REST L2 9+50S	.3	10
REST L2 10+00S	.6	10
REST L2 10+50S	.2	15
REST L2 11+00S	.3	10
REST L2 11+50S	.1	5
REST L2 12+50S	nd	10
REST L2 13+00S	.3	nd
REST L2 13+50S	.4	5
REST L2 14+00S	.4	10
REST L2 14+50S	.8	10
REST L2 15+00S	.3	5
REST L2 15+50S	1.4	15
REST L2 16+00S	.3	10
REST L2 16+50S	1.0	5
REST L2 17+00S	.3	10
REST L2 17+50S	.9	25

DETECTION LIMIT 0.1 5

nd = none detected

-- = not analysed

is = insufficient sample

REPORT NUMBER: 900388 GA

JOB NUMBER: 900388

SULLIVAN MANAGEMENT/KESTREL RES.

PAGE 2 OF 2

SAMPLE #	Ag ppm	Au ppb
REST L2 18+00S	.5	10
REST L2 18+50S	.6	nd
REST L2 19+00S	.6	nd
REST L2 19+50S	.3	nd
REST L2 20+00S	.1	5
REST L2 20+50S	.2	5
REST L2 21+00S	.2	10
REST L2 21+50S	.1	nd
REST L2 22+00S	.1	nd
REST L2 22+50S	.1	10

DETECTION LIMIT

0.1 5

nd = none detected

-- = not analysed

is = insufficient sample

VANGOCHEM LAB LIMITED

1630 Pandora Street, Vancouver, B.C. V6L 1L6  
 TEL: (604) 271-5555 FAX: (604) 271-5517

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *[Signature]*

REPORT #: 900388 PA SULLIVAN MANAGEMENT / KESTREL RES. PROJECT: REST DATE IN: SEPT 05 1990 DATE OUT: OCT 04 1990 ATTENTION: MR. JOHN BUCHHOLZ PAGE 1 OF 2

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	%	%	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
REST L2 1+50S A1	0.2	3.06	<3	330	<3	1.26	3.0	27	66	140	4.75	0.21	1.74	3428	22	0.03	85	0.05	<2	<2	15	45	<5	<3	295
REST L2 3+00S A2	<0.1	2.49	<3	138	<3	0.58	3.0	21	38	37	4.03	0.14	1.31	3033	13	0.03	33	0.05	<2	<2	12	28	<5	<3	153
REST L2 3+75S A3	0.1	3.33	<3	128	<3	0.63	2.4	19	32	59	3.75	0.14	1.08	1896	16	0.03	26	0.06	<2	<2	12	36	<5	<3	182
REST L2 11+20S A4	<0.1	2.43	<3	143	<3	0.64	1.6	20	29	52	4.08	0.14	1.48	1051	13	0.03	25	0.05	<2	<2	11	32	<5	<3	124
REST L2 12+00S A5	<0.1	3.13	<3	70	<3	1.93	1.8	33	48	95	4.66	0.22	1.86	1100	13	0.03	38	0.05	<2	<2	15	70	<5	<3	124
REST L2 13+50S A6	0.2	3.06	<3	196	<3	0.71	3.2	25	29	149	4.60	0.16	1.23	1438	14	0.03	30	0.04	<2	<2	13	33	<5	<3	155
REST L2 0+00S	0.1	2.92	<3	220	<3	1.13	1.4	26	46	91	4.21	0.18	1.64	1203	14	0.03	36	0.05	<2	<2	14	48	<5	<3	212
REST L2 0+50S	0.2	2.66	<3	149	<3	1.20	1.5	26	47	103	3.95	0.17	1.51	1093	12	0.03	37	0.05	<2	<2	13	49	<5	<3	200
REST L2 1+00S	<0.1	2.67	<3	202	<3	1.11	1.5	25	44	88	4.08	0.18	1.49	1109	14	0.03	34	0.05	<2	<2	12	47	<5	<3	178
REST L2 2+00S	<0.1	3.12	<3	141	<3	1.05	2.2	23	46	49	4.17	0.17	1.38	728	14	0.03	34	0.03	<2	<2	15	44	<5	<3	151
REST L2 2+50S	<0.1	2.13	<3	71	<3	0.48	1.8	21	25	66	3.93	0.12	1.08	1181	11	0.02	26	0.08	<2	<2	10	27	<5	<3	106
REST L2 3+00S	<0.1	3.09	<3	84	<3	0.25	1.3	35	33	43	4.18	0.12	1.03	5881	14	0.03	21	0.04	<2	<2	12	19	<5	<3	117
REST L2 3+50S	<0.1	4.07	<3	37	<3	0.22	2.1	15	29	46	5.24	0.13	0.72	398	16	0.03	17	0.02	<2	<2	15	18	<5	<3	87
REST L2 4+00S	<0.1	2.02	<3	29	<3	0.26	2.0	15	23	21	4.28	0.10	0.53	369	14	0.02	16	0.03	<2	<2	11	23	<5	<3	66
REST L2 4+50S	<0.1	2.58	<3	39	<3	0.19	3.1	15	27	23	8.59	0.18	0.27	305	20	0.04	18	0.03	5	<2	20	14	<5	<3	86
REST L2 5+00S	0.4	4.61	<3	31	<3	0.25	1.7	16	28	43	5.95	0.16	0.32	383	21	0.04	12	0.05	<2	<2	20	12	<5	<3	77
REST L2 5+50S	0.2	4.65	<3	167	<3	0.65	3.1	22	27	58	7.70	0.23	0.43	318	26	0.05	12	0.02	<2	<2	26	51	<5	<3	103
REST L2 6+50S	0.1	3.78	<3	363	<3	0.49	2.9	20	32	20	5.62	0.18	1.42	801	30	0.03	22	0.03	<2	<2	14	30	<5	<3	311
REST L2 7+00S	<0.1	5.42	<3	179	<3	0.18	1.9	18	38	88	5.14	0.17	0.93	1044	21	0.03	25	0.03	<2	<2	17	17	<5	<3	126
REST L2 7+50S	<0.1	3.34	<3	533	<3	0.61	2.2	20	34	65	3.87	0.15	1.68	717	16	0.03	29	0.05	<2	<2	11	29	<5	<3	160
REST L2 8+00S	0.1	3.84	<3	53	<3	0.21	1.6	17	36	42	5.75	0.14	0.96	709	20	0.03	23	0.03	<2	<2	16	19	<5	<3	108
REST L2 8+50S	0.8	4.62	<3	45	<3	0.23	1.6	14	35	41	4.30	0.12	0.75	463	21	0.03	20	0.07	<2	<2	17	18	<5	<3	166
REST L2 9+00S	0.3	2.42	<3	31	<3	0.29	2.2	29	23	25	4.94	0.12	0.32	318	27	0.03	20	0.05	30	<2	24	8	<5	<3	71
REST L2 9+50S	0.3	3.96	<3	27	<3	0.19	2.7	12	37	58	5.99	0.10	0.53	322	22	0.06	25	0.04	20	<2	16	18	<5	<3	96
REST L2 10+00S	0.6	2.76	<3	48	<3	0.46	2.3	14	29	44	4.55	0.11	0.62	379	15	0.04	20	0.06	20	<2	13	30	<5	<3	80
REST L2 10+50S	0.2	2.77	<3	43	<3	0.22	1.6	12	27	22	6.22	0.10	0.57	324	16	0.04	18	0.06	10	<2	13	21	<5	<3	66
REST L2 11+00S	0.3	2.08	<3	194	<3	0.55	2.1	17	24	55	3.79	0.11	1.14	1262	12	0.04	23	0.08	9	<2	10	31	<5	<3	109
REST L2 11+50S	0.1	3.14	<3	93	<3	0.91	1.9	26	38	92	4.68	0.15	1.56	1188	16	0.04	26	0.05	<2	<2	14	58	<5	<3	105
REST L2 12+50S	<0.1	2.84	<3	89	<3	1.07	1.9	27	35	112	4.72	0.17	1.55	1052	15	0.05	29	0.05	4	<2	14	62	<5	<3	106
REST L2 13+00S	0.3	2.89	<3	147	<3	0.73	2.1	27	29	115	5.17	0.15	1.52	1164	16	0.05	33	0.05	5	<2	14	38	<5	<3	112
REST L2 13+50S	0.4	3.78	<3	163	<3	0.62	2.3	18	29	72	5.77	0.15	1.11	775	20	0.05	28	0.04	13	<2	14	28	<5	<3	120
REST L2 14+00S	0.4	3.05	<3	40	<3	0.17	1.5	11	26	31	4.24	0.08	0.58	305	17	0.04	15	0.05	16	<2	13	16	<5	<3	67
REST L2 14+50S	0.8	3.39	<3	336	<3	0.50	1.8	14	29	73	3.87	0.12	1.21	696	17	0.07	26	0.05	12	<2	13	24	<5	<3	576
REST L2 15+00S	0.3	1.44	<3	59	<3	0.22	1.1	13	17	57	3.01	0.07	0.19	1285	13	0.04	14	0.11	24	<2	9	18	<5	<3	89
REST L2 15+50S	1.4	2.70	<3	48	<3	0.24	1.6	8	20	80	3.59	0.09	0.41	437	16	0.05	15	0.17	88	<2	11	26	<5	<3	99
REST L2 16+00S	0.3	3.42	464	273	<3	0.51	5.1	17	28	260	4.56	0.15	0.99	1355	17	0.10	31	0.05	23	<2	14	24	<5	<3	789
REST L2 16+50S	1.0	5.08	<3	50	<3	0.28	1.0	9	26	99	3.27	0.08	0.30	384	23	0.03	17	0.12	56	<2	16	29	<5	<3	89
REST L2 17+00S	0.3	3.21	<3	111	<3	0.43	0.6	16	24	80	3.13	0.10	0.81	887	16	0.04	18	0.06	61	<2	13	42	<5	<3	109
REST L2 17+50S	0.9	3.54	<3	85	<3	0.35	1.9	33	25	201	3.97	0.11	0.83	1430	17	0.04	20	0.08	143	<2	13	36	<5	<3	127

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1  
 Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000  
 < - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

INTERNATIONAL CANADA



VANBEOCHEM LAP LIMITED

1620 Pandora Street, Vancouver, B.C. V5L 1L6  
 Ph: (604)251-5656 Fax: (604)254-5717

ICAP GEOCHEMICAL ANALYSIS

A .5 gram sample is digested with 5 ml of 3:1:2 HCl to HNO<sub>3</sub> to H<sub>2</sub>O at 95 °C for 90 minutes and is diluted to 10 ml with water.  
 This leach is partial for Al, Ba, Ca, Cr, Fe, K, Mg, Mn, Na, P, Sn, Sr and W.

ANALYST: *[Signature]*

REPORT #: 900388 PA SULLIVAN MANAGEMENT / KESTREL RES. PROJECT: REST DATE IN: SEPT 05 1990 DATE OUT: OCT 04 1990 ATTENTION: MR. JOHN BUCHHOLZ PAGE 2 OF 2

Sample Name	Ag	Al	As	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sn	Sr	U	W	Zn
	ppm	µg/g	ppm	ppm	ppm	µg/g	ppm	ppm	ppm	ppm	µg/g	µg/g	µg/g	ppm	ppm	µg/g	ppm	µg/g	ppm	ppm	ppm	ppm	ppm	ppm	ppm
REST L2 18+00S	0.5	3.60	<3	447	<3	1.06	2.7	34	47	187	5.36	0.19	1.83	1730	20	0.05	39	0.05	59	<2	17	46	<5	<3	220
REST L2 18+50S	0.6	3.96	<3	419	<3	0.43	3.6	28	43	103	5.49	0.13	1.50	1643	34	0.06	104	0.07	7	<2	18	25	<5	<3	253
REST L2 19+00S	0.6	4.09	<3	106	<3	0.23	6.0	84	39	232	>10.00	0.24	0.96	1839	43	0.07	36	0.08	52	16	25	8	<5	<3	143
REST L2 19+50S	0.3	4.96	<3	91	<3	0.25	3.1	24	41	68	6.49	0.11	1.15	1005	29	0.04	23	0.04	<2	<2	23	19	<5	<3	123
REST L2 20+00S	0.1	4.21	<3	78	<3	0.23	1.1	12	29	42	4.33	0.09	0.59	393	19	0.03	12	0.06	<2	<2	17	22	<5	<3	88
REST L2 20+50S	0.2	5.10	<3	110	<3	0.41	1.2	26	36	84	5.01	0.12	1.28	1478	24	0.03	22	0.07	<2	<2	19	26	<5	<3	110
REST L2 21+00S	0.2	4.96	<3	90	<3	0.30	1.9	21	40	57	5.88	0.12	1.19	1008	25	0.03	22	0.05	<2	<2	21	24	<5	<3	96
REST L2 21+50S	0.1	2.68	<3	69	<3	0.23	<0.1	15	25	50	3.05	0.05	0.75	856	14	0.03	14	0.05	<2	<2	12	23	<5	<3	64
REST L2 22+00S	0.1	4.31	<3	101	<3	0.32	0.9	23	34	102	5.03	0.11	1.31	1261	21	0.04	19	0.08	<2	<2	18	29	<5	<3	128
REST L2 22+50S	0.1	4.79	<3	35	<3	0.23	0.9	14	37	41	6.27	0.11	0.66	430	25	0.03	16	0.06	<2	<2	21	28	<5	<3	48

Minimum Detection 0.1 0.01 3 1 3 0.01 0.1 1 1 1 0.01 0.01 0.01 1 1 0.01 1 0.01 2 2 2 1 5 3 1  
 Maximum Detection 50.0 10.00 2000 1000 1000 10.00 1000.0 20000 1000 20000 10.00 10.00 10.00 20000 1000 10.00 20000 10.00 20000 2000 1000 10000 100 1000 20000  
 < - Less Than Minimum > - Greater Than Maximum is - Insufficient Sample ns - No Sample ANOMALOUS RESULTS - Further Analyses By Alternate Methods Suggested.

PRINTED AT 03:10 PM

**APPENDIX II**  
**Sample Descriptions**

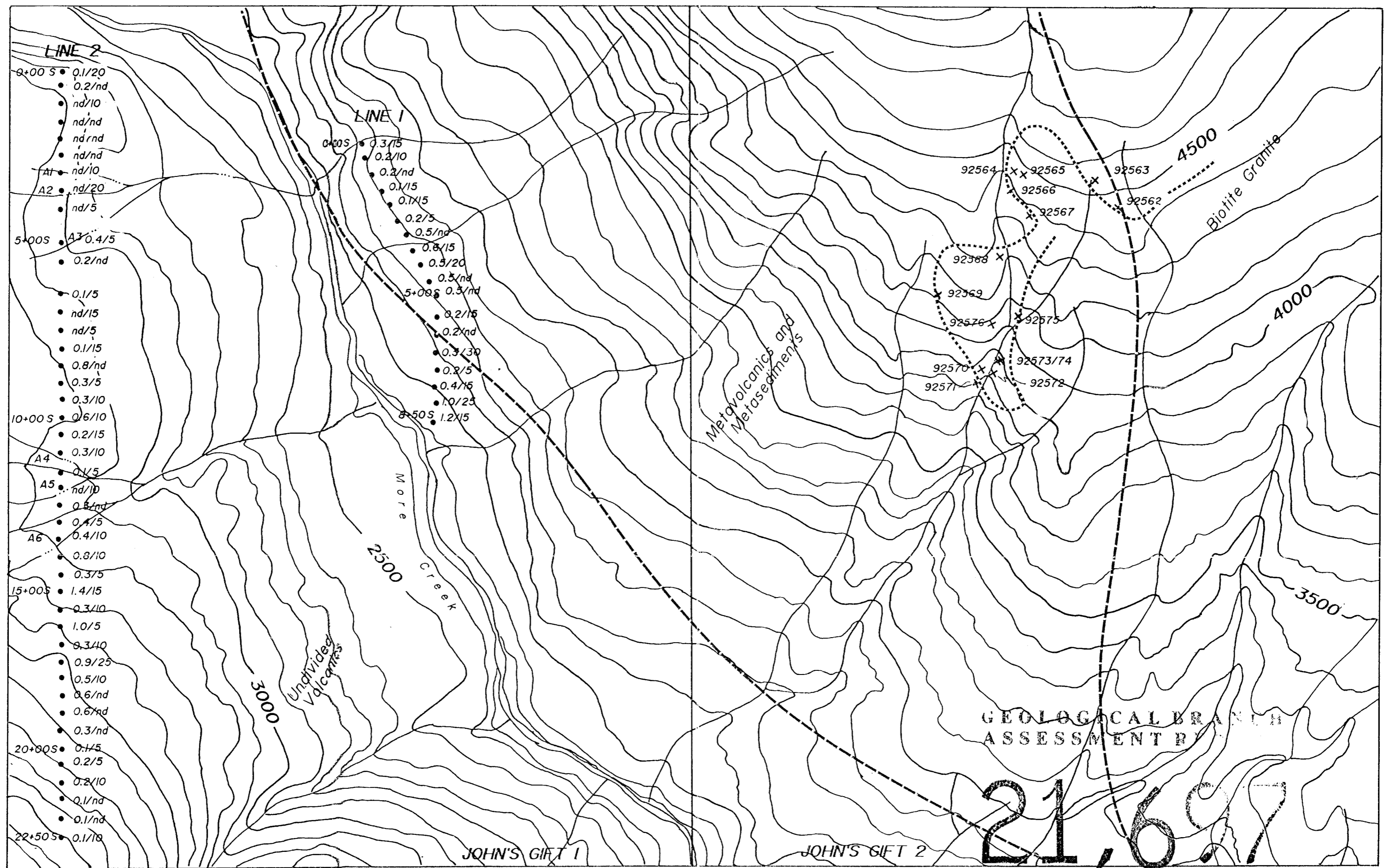
Geochemical Data Sheet - ROCK SAMPLING

Sampler C. BILANEST  
Date 2/18/90

Project HEATHER BULLIVAN  
Property JOHNS SEFT

Location NTS 104 B/15  
JG #1  
M.D. LEARD

SAMPLE NO.	LOCATION	SAMPLE TYPE	Sample Width	DESCRIPTION			OBSERVATIONS	ASSAYS			
				Rock Type	Alteration	Mineralization		Ag ppm	Au ppb		
92562	1360m NW side 6th level canyon NE side JG	GRAB		QTZ DEOR		PyR	FLOAT VERY ANGULAR	nd	1040		
563	1390m 100m NW 562	GRAB		GRN VOLL [ANDESITE]		PyR	RUSTY WEATHERED SURFACE LAYER	nd	10		
564	1360m	1m <sup>2</sup> GRAB		LT GRN VOLL.		FINE MEN.	EAST SECT. OF MAGN. CRK. RUSTY THROUGH CENTER OF JG #1 [CHERTY]	nd	nd		
565	1325m-25m EAST OF 564	1m <sup>2</sup> GRAB		"		SELEN. PyR.	[RHEOLITE CHERTY?]	nd	nd		
568	1310m 40m DOWN STRM 565	"		"		"	BLODM SAMPLE # 27-15-17	nd	nd		
568	1320m 40m SE 566	"		"		"		nd	nd		
568	1290m 50m DOWN STRM 567			RUSTY RW VOLL		FINE Py.	[EQUILLITE]	0.2	nd		
589	1270m 200m SW 568	GRAB		LT GR VOLL		MASS. PyR	NOT AS CHERTY AS 565 TO 567	nd	nd		
570	1180m 825 RANCH CENT JG1	"		RUSTY DEOR		PyR		nd	30		
571	1180m 20m UP STRM 570	"		"		"		nd	20		
572	1190m 50m UP STRM 571	"	1m <sup>2</sup>	GREEN VOLL		PyR	RUSTY [VAGUE?]	nd	30		
573	1180m 20m UP STRM 572	"	"	"		"	NOT AS RUSTY AS 572	nd	30		
574	1140m 18m UP STRM 573	"	"	"		"		nd	20		
575	1240m 200m UP STRM 574	GRAB		MAGNETITE			SEVERAL LANG. SLDS. FLOAT	0.1	20		
576	1180m 30m NW OF 572	"		QTZ		FINE PyR	SUB O/C	nd	20		

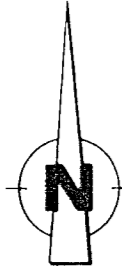


**L E G E N D**

- x ROCK SAMPLES
  - GEOCHEM SOIL SAMPLE
  - GEOLOGICAL CONTACT
  - ..... TRAVERSE
- 0.3/15 ASSAY Ag ppm / Au ppb

**ROCK SAMPLES**

SAMPLE #	Ag	Au
	ppm	ppb
92562	nd	1040
92563	nd	10
92564	nd	nd
92565	nd	nd
92566	nd	nd
92567	nd	nd
92568	.2	nd
92569	nd	nd
92570	nd	30
92571	nd	20
92572	nd	30
92573	nd	30
92574	nd	20
92575	.1	20
92576	nd	20



SCALE



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

21,697

KESTREL RESOURCES LTD.

JOHN'S GIFT 1-2 MINERAL CLAIMS

**SAMPLE LOCATION MAP**

LIARD MINING DIVISION, B.C.

DATE : SEPT 1991

SCALE : 1 : 10 000

DRAWN : S. TENNANT

FIGURE : 4