

**PROSPECTING REPORT**  
for the  
**1992 YUKON MINING INCENTIVES PROGRAM**  
by  
**BRIAN CARTER**

**December 8, 1992**

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Areas Prospected:  
Michie Creek (105-D-09)  
Monkey Creek (105-D-08)  
Excelsior Creek (115-J-15)

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## **SUMMARY**

During the 1992 field season, with assistance from the Yukon Mining Incentive Program, three target areas were prospected. Each prospecting trip was successful to a greater or lesser extent.

### **Excelsior Creek**

The potential for gold, deposits of a felsic association (porphyry and veins and skarns associated with porphyries), and deposits of an ultramafic association all exist in this area. Prospecting in 1992 located target areas for all three of these deposit types. Continued exploration is planned for this target area.

### **Monkey Creek**

Much of the area prospected was covered by glacial overburden. Pink quartz monzonite was located but no contact with other formations was observed. Some of andesite sampled showed shearing and thin quartz veining. Minor anomalous values of Cu and Au were obtained.

### **Michie Creek**

Initial sampling results from the 1991 and 1992 seasons are promising enough to warrant extending this program into 1993. Anomalous values in Au, Cu and Ni along with a newly discovered fault in an ultra mafic formation require follow up before staking claims.

# **EXCELSIOR CREEK**

(Target #1)

## **Location**

Target #1 is located at Excelsior Creek, a tributary of the Yukon River, found on map area 115-J-15, 60° 53'N, 138° 58'W.

## **Access**

Access from Whitehorse is by vehicle via the Klondike Highway to Minto Landing 230km, and farther by boat down the Yukon River 144km to Excelsior Creek.

## **History**

In 1898 placer mining was undertaken by J. Beavan, and 5 other New Zealand miners on Excelsior Creek. The area is fairly close to other mineral occurrences and placer mines: Patton Hill, Casino, Bomber, Helicopter, Canadian Creek, etc.

## **Regional Geology**

Within the Dawson Range schists and gneiss are commonly seen, including the Pelly Gneiss and Klondike Schist of this area. A prominent feature in the area is an East-West trending anticline. The headwaters of the creek are found in Triassic hornblende granodiorite. The polymetallic showings on the south side of the Casino, Big Creek Resources copper-molybdenum-gold porphyry deposit are associated with this intrusive suite.

## **Local Geology**

The area is highly metamorphosed with quartz muscovite schist, bull quartz and garnet pyroxene skarn common. Epidote, pink orthoclase and quartzite bands were seen in the schist unit. Metamorphosed limestone was seen, as was an amphibolite and/or actinolite skarn. Along the upper half of the creek, granodiorite with pyrite was noted. Metamorphosed basic or ultrabasic rock may explain the anomalous values of Ni, Co and Cr.

## **Prospecting Geology**

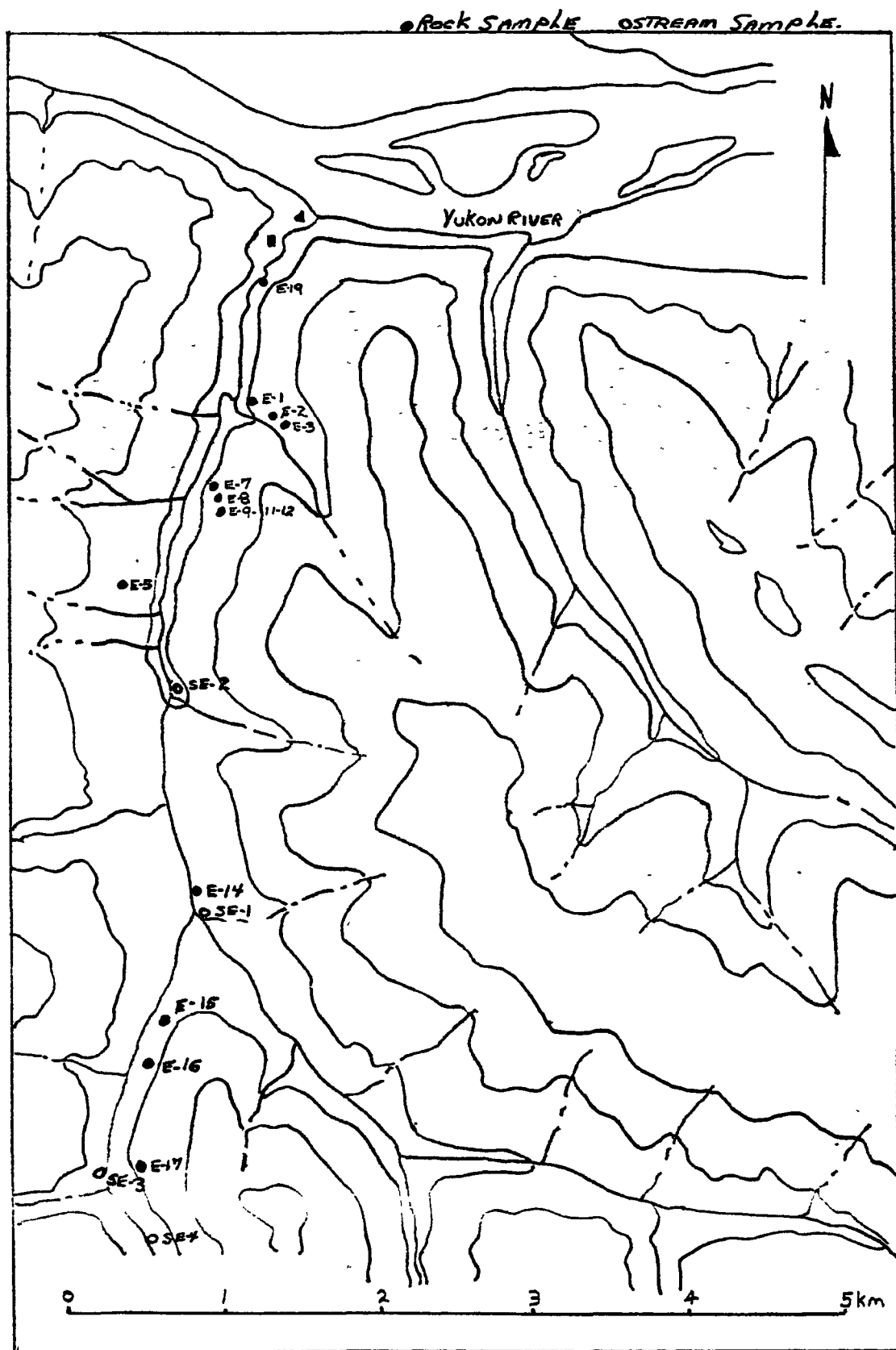
Rock sampling and stream sediment sampling returned anomalous levels in a wide range of elements (Pb, Cu, Zn, Cd, Au, Ag, Ni, Co, Cr, Sb, As, Mo). A 3" by 4" piece of float (sample E19) was assayed at 290ppb Au and 40,886ppm Sb. It would appear that two suites of rocks with different geochemical signatures are responsible for the enigmatic results. The felsic intrusions have resulted in wide spread skarn and porphyry mineralization. The high metallic levels in Cu, Au, Pb, Zn, Ag and Mo are associated with this event. The notable values in Ni, Co, Cr, Au, and Cu may be attributed to ultramafic lenses that may be occurring on the sole of a thrust fault that cuts across Excelsior Creek. The Sb and Au values could indicate a possible hydrothermal veining system in the area.

## **Conclusions and Recommendations**

The history of the area and anomalous assays warrant further prospecting. The area continues to hold good placer potential. Two different target rock suites, one felsic the other ultramafic, plus a possible hydrothermal type veining system, hold the promise of a wide range of potential deposit types.

In addition, the recent activity and drilling exploration done by Big Creek Resources on the Casino property enhances the potential of this area to be both a more accessible and saleable prospecting target.

# Target #1 Excelsior Creek



NTS 115-J-15

# **MONKEY CREEK**

(Target #2)

## **Location**

Target #2 is located on Monkey Creek which is approximately 14 miles long and flows west into Marsh Lake and is drainage for Mt. Lansdown and Mt. Lorne. It is found on map 105-D-08 Lat 60° 26', Long 134° 19'.

## **Access**

Access is by helicopter approximately 45km SW of Whitehorse.

## **History**

There is no known mining history in the area.

## **Regional Geology**

Much of the area is covered by thick glacial deposits. Outcrops consist of greywacke, siltstone hornfels belonging to Laberge group, quartz monzonite intrusions and Triassic andesites belonging to the Lewes River group.

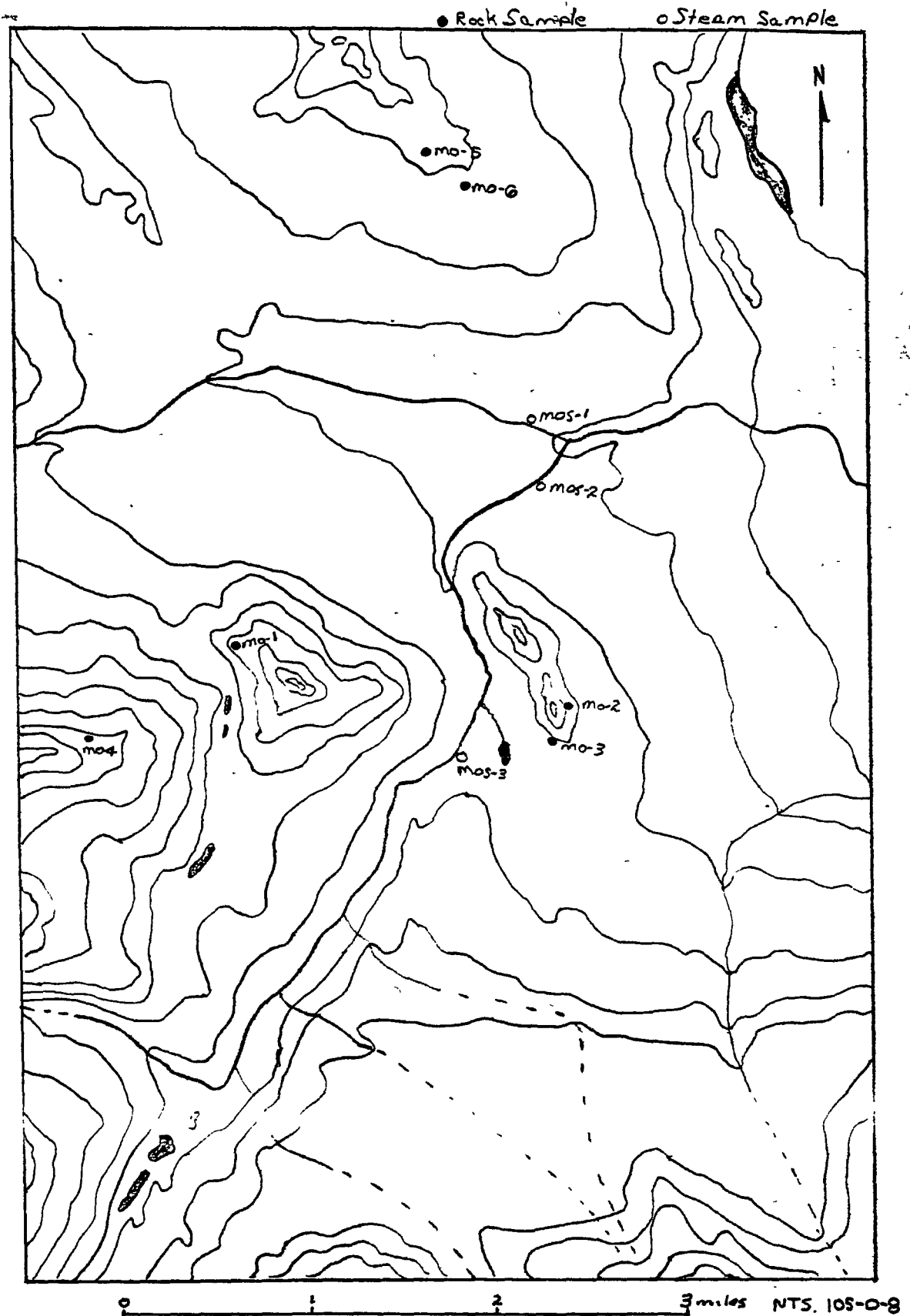
## **Local Geology**

Outcrops that were observed consisted of pink quartz monzonite, greywacke and andesite. Some of andesite showed coarse grain augite, pyroxene and hornblende crystals. In addition, some samples showed shearing with minor quartz veinlets and pyrite.

## **Conclusions and Recommendations**

Minor anomalous values of Au and Cu were found in assays done. The area is mostly covered with thick glacial overburden and no contact was observed between the pink quartz monzonite and the rocks it intruded.

# Monkey Creek Target #2





## **MICHIE CREEK**

(Target #3)

### **Location**

Target #3 is found on map area 105-D-09, 60° 43' N, 134° 22' W.

### **Access**

Approximately 40km southwest of Whitehorse, an old logging road leaves the Alaska Highway heading north. Target #1 is approximately 20km north of the highway.

### **Regional Geology**

The local rocks are metamorphosed, Upper Triassic Lewes River Group volcanics and clastic sediments, with intrusions of Cretaceous, granitic, Coast Mountain rocks of hornblende diorite, peridotite and serpentinite.

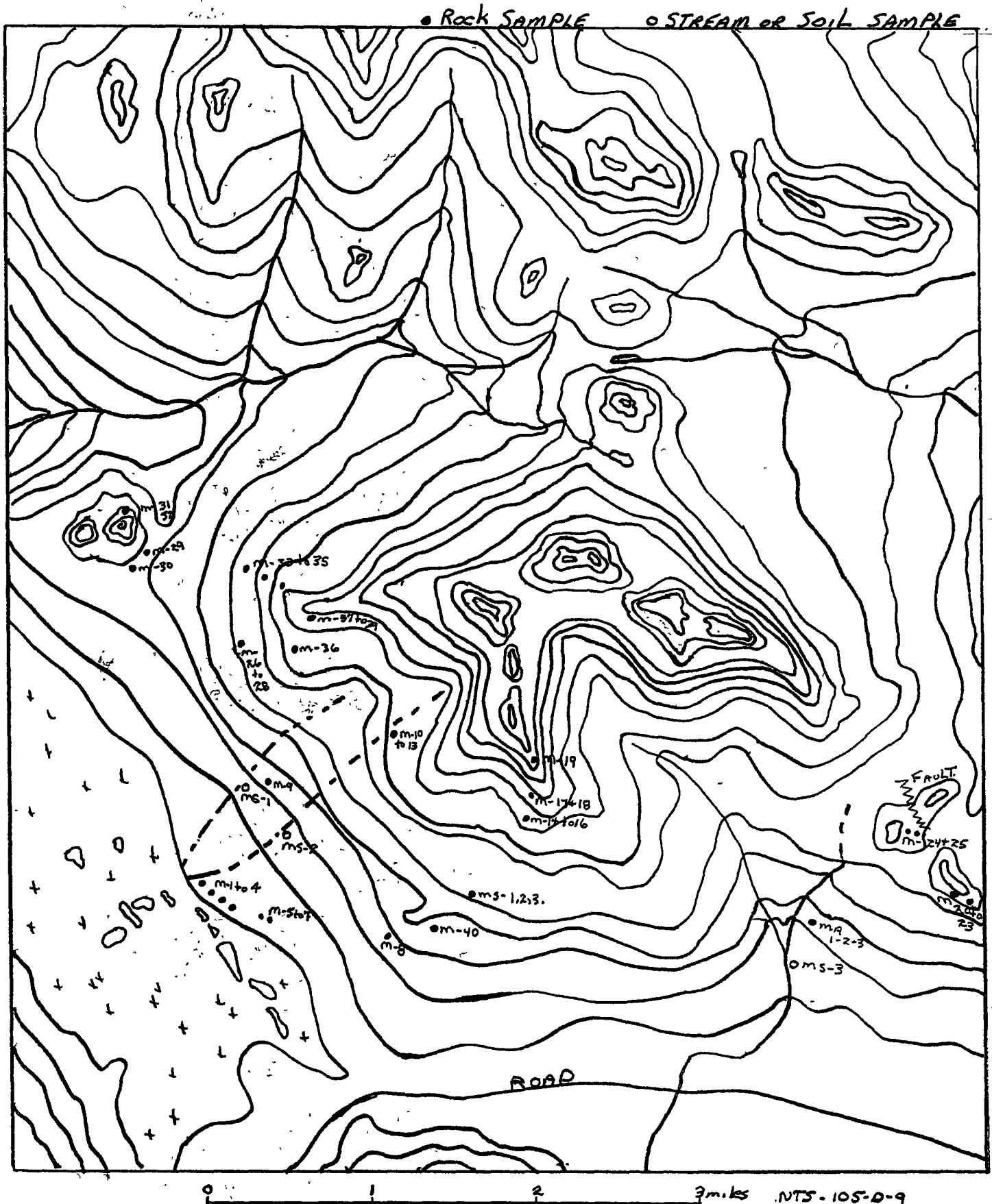
### **Local Geology**

Rhyolite dikes and quartz veining were seen, as well as metamorphosed siltstone and chloritic hornblende. Skarns were widespread, with banded garnet, pyroxene, calcite, epidote and massive magnetite. Pyrite and chalcopyrite were seen in calcite stringers associated with magnetite skarn. Crystal filled geodes, containing sulphides and malachite staining were found in the vicinity of quartz stringers and veining. Diorite, some showing foliation, was noted. Aplite dikes were observed in many different locations both at low and high elevations. They ranged from 1ft to 20ft in width. A fault dipping 80° and striking NW was observed in rocks consisting of serpentized peridotite and tremolite. Anomalous values of Au, Ag, Cu, Pb and Zn were seen in a number of rock sample results. Samples assayed from the faulted area showed .2% Nickel, 26% Mg, 96 ppm Co and 303 ppm Cr.

### **Conclusions and Recommendations**

Samples from the skarns at lower elevations show anomalous assay values, and warrant further prospecting, and a possible E.M. survey. Rhyolite and aplite dikes and quartz veining at the higher elevations also warrant further prospecting for epithermal, vein type deposits. In addition, the fault discovered should be followed along its direction for outcrop showings of possible mineralization of value. Only the southern top half face of the mountain has been prospected. The remaining top half and northern face should be traversed and prospected as the fault points in that direction.

# TARGET #3 MICHIE CREEK



## 1992 YUKON MINING INCENTIVES PROGRAM

### Brian Carter - Expense Summary

Expense Category	Target#1	Target#2	Target#3	Overall	Total
Travel	283.36		208.29		491.65
Living Expenses	1,796.90	739.90	1,691.20		4,228.00
Equipment Purchases	22.00				22.00
Rentals	718.75	919.93	2,500.00		4,138.68
Miscellaneous	33.07	21.87	26.79		81.73
Assays	326.36	110.25	455.47		892.08
Boat Fuel	127.00				127.00
Freighting Cost	120.00				120.00
Prospecting Report				150.00	150.00
Total by Project	3,427.44	1,791.95	4,881.75		<b>\$10,251.14</b>

Credit: \$10,000.00  
Amount Received: 8,500.00  
Amount Owing: \$1,500.00

Notes: Miscellaneous includes maps and sample bags.

Equipment purchase is for a hand lens.

Prospecting report included typing, drafting and technical assistance to assist in writing my report.

## **Appendix A**

### **Assay Results**

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EXCELSIOR CREEK

20-Jul-92 date

Assay Certificate

Page 1

Brian Carter

Sample # Au ppb

E-1	13
E-3	8
E-5	66
E-7	47
E-8	12
E-9	10
E-11	7
E-12	5
E-14	35
E-16	5
E-17	13
E-19	290
SE1	15
SE2	21
SE3	9
SE4	8

Certified by Chyokki



## GEOCHEMICAL ANALYSIS CERTIFICATE

Northern Analytical Labs. Ltd.

File # 92-1984A

Page 1

105 Copper Road, Whistler, B.C. V1A 2T7

SAMPLE#	No	Cu	Pb	Zn	As	Ni	Co	Mn	Fe	Ag	U	Au	Th	Sr	Ca	Pb	Bi	V	Ca	La	Cr	Mg	Ba	B	Al	Na	K
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	%	%
13633 E-1	1	36	205	34	118	22	608	1.93	10	5	ND	2	323	2	2	15	11.09	13	2	47	.54	164	11	.60	.04	.09	
13633 E-3	1	47	107	47	55	17	562	3.13	2	5	ND	6	53	2	2	70	2.71	11	115	2.37	118	15	1.71	.15	.10		
13633 E-5	1	45	18	39	174	27	541	3.21	2	5	ND	7	71	2	2	51	2.51	7	238	3.17	37	10	2.02	.13	.07		
13633 E-7	23	112	12	469	92	35	1702	2.43	55	5	ND	3	141	2	2	53	3.77	4	50	2.23	92	14	.30	.01	.05		
13633 E-8	2	2	28	14	16	1	163	.27	6	5	ND	1	13	2	2	2	.55	3	59	.18	46	12	.18	.03	.09		
13633 E-9	5	64	15	134	63	10	754	2.55	22	5	ND	5	129	2	2	49	3.53	5	50	2.08	627	12	.49	.01	.05		
13633 E-11	70	358	46	1095	99	31	96	.51	3	6	ND	3	22	2	2	96	.19	4	150	.05	147	9	.10	.02	.06		
13633 E-12	10	27	10	202	28	4	1630	2.18	38	5	ND	4	147	2	2	46	8.28	3	31	4.34	87	15	.16	.01	.04		
13633 E-14	2	25	18	21	46	15	467	1.56	3	5	ND	4	360	2	2	11	9.65	5	45	.35	24	9	.39	.01	.06		
13633 E-16	1	5	26	28	27	22	466	1.26	2	5	ND	3	185	2	2	10	6.26	5	32	.24	49	9	.51	.01	.02		
RE 13633 E-11	70	355	46	1070	97	30	63	.51	6	6	ND	4	22	2	2	94	.21	4	147	.05	145	11	.10	.02	.06		
13633 E-17	1	31	2	54	19	24	570	4.18	2	5	ND	5	211	2	2	112	2.36	8	66	1.39	156	15	3.42	.21	.03		
13633 E-19	1	12	2	27	1	2	94	.38	7	5	ND	1	38	2	2	40886	.47	2	78	.01	11	2	.25	.01	.01		
13633 SE-1	1	25	13	86	34	14	481	3.64	14	5	ND	11	43	2	2	52	.85	21	40	.77	147	10	1.40	.02	.17		
13633 SE-2	1	23	7	86	23	10	545	2.59	2	5	ND	5	45	2	2	42	.62	13	24	.67	185	14	1.13	.02	.13		
13633 SE-3	1	22	8	107	18	11	475	2.86	2	5	ND	6	65	2	3	44	.65	21	24	.83	169	9	1.46	.02	.22		
13633 SE-4	1	15	5	88	18	9	363	2.42	2	5	ND	6	58	2	4	40	.60	17	23	.64	132	12	1.28	.02	.15		
STANDARD C	18	58	37	136	72	31	1039	4.23	38	21	7	37	53	19	13	19	56	.50	37	59	.90	187	34	1.93	.08	.16	

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: PULP Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: JUL 20 1992 DATE REPORT MAILED: July 27/92 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

EXCELSIOR CREEK.

JUL-28-1992 15:07 FROM ACME ANALYTICAL

TO 1-403-668-4890

P.002/009

12-Nov-92 date

Assay Certificate

page 1

Brian Carter

WO#13788

**MICHIE CREEK & MONKEY CREEK**

Sample #

Au ppb

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MA-1	38
MA-2	<5
M-3	11
M-8	6
M-9	11
M-11	7
M-12	6
M-14	12
M-14A	72
M-16	<5
M-17	5
M-18	14
M-19	17
M-21	<5
A-22B	<5
M-26	<5
M-32	7
M-33	<5
M-34	5
M-35	8
M-36	<5
M-40	18
MO-1	5
MO-2	8
MS-1	32
MS-2	136
MO-3	14
MS-3	93
MLC-1	13
MOS-1	5
MOS-2	8
MOS-3	<5

Certified by *CHYOKKI*



Fax (804) 879-7898

MICHIE CREEK + MONKEY CREEK.

iPL Report: 9200858 T Northern Analytical Laboratories  
Project: W/O 13788

In: Oct 05, 1992  
Out: Oct 08, 1992

32 Pulp

Page 1 of 1

Section 1 of  
Certified BC Assayer

**David Chiu**

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
H 3		<	14	<	46	<	<	<	2	<	<	0.7	27	64	119	<	113	15	265	<	9	<	1	0.03	0.26	0.22	2.03	3.03	0.17	0.01	0.01
H 8		<	38	<	49	<	<	<	2	<	<	<	28	32	43	<	47	105	690	<	2	2	3	0.22	1.87	0.24	4.14	2.38	0.14	0.04	0.01
H 9		<	54	2	63	<	20	<	3	<	<	<	26	35	43	<	67	154	818	6	36	1	11	0.17	2.29	0.46	4.60	2.22	0.07	0.04	0.01
H 11		0.1	2	57	22	<	<	<	1	<	<	0.1	1	2	30	<	56	2	437	5	2	13	1	<	0.19	0.13	0.34	0.04	0.14	0.04	0.01
H 12		<	122	5	25	<	6	<	3	<	<	0.1	15	80	11	<	272	44	271	<	9	3	2	0.08	1.57	0.39	1.81	1.89	0.17	0.04	0.01
H 14		0.1	1	<	5	<	31	<	4	<	<	<	1	8	22	<	109	8	55	<	3	1	<	<	0.07	0.21	4.57	0.05	0.01	0.01	0.01
H 14A		<	35	<	3	<	<	<	4	<	<	<	4	15	11	<	90	20	163	<	2	<	<	<	0.12	0.25	5.74	0.07	0.01	0.01	0.01
H 16		0.2	54	4	49	<	5	<	2	<	<	<	42	164	<	<	202	53	352	<	2	5	1	0.19	1.35	0.38	3.37	1.60	0.02	0.04	0.01
H 17		0.2	74	12	54	<	17	<	3	<	<	<	38	109	24	<	160	75	343	<	3	2	2	0.14	1.59	0.34	3.59	1.76	0.33	0.04	0.01
H 18		<	61	9	49	<	13	<	2	<	<	<	47	156	9	<	183	42	307	<	2	4	1	0.15	1.19	0.39	3.30	1.45	0.02	0.03	0.01
H 19		<	41	5	11	<	5	<	2	<	<	0.2	6	4	24	<	44	9	319	2	0	1	3	<	0.50	0.06	1.54	0.27	0.06	0.05	0.01
H 21		<	10	7	14	<	3	<	3	<	<	1.1	96	0.22	<	<	303	4	573	<	0	<	3	<	0.06	0.23	3.55	26%	<	0.01	0.01
H 22B		<	8	4	14	<	<	<	2	<	<	<	3	54	19	<	33	4	250	3	25	2	2	0.04	1.07	0.04	0.40	0.71	<	0.01	0.01
H 26		<	6	19	6	<	<	<	2	<	<	<	1	3	15	<	68	6	174	4	4	7	1	0.01	0.23	0.06	0.39	0.13	0.02	0.06	0.01
H 32		<	13	5	8	<	<	<	1	<	<	0.1	14	20	12	<	35	53	192	<	4	1	5	0.12	1.01	0.30	1.71	1.10	0.06	0.13	0.01
H 33		<	1	9	12	<	<	<	1	<	<	<	1	3	21	<	29	2	116	9	3	8	1	0.01	0.23	0.01	0.47	0.17	0.07	0.05	0.01
H 34		<	3	48	33	<	<	<	2	<	<	<	1	2	22	<	70	5	394	3	6	7	1	0.01	0.27	0.14	0.47	0.11	0.10	0.05	0.01
H 35		<	31	4	66	<	<	<	3	<	<	<	7	21	<	<	70	54	134	7	3	2	1	0.04	1.08	0.11	2.83	1.21	0.01	0.03	0.01
H 36		<	2	49	17	<	<	<	2	<	<	<	<	2	12	<	68	2	256	5	1	7	<	<	0.17	0.03	0.30	0.06	0.12	0.04	0.01
H 40		<	10	10	75	<	<	<	5	<	<	<	18	30	151	<	110	140	599	<	0	2	5	0.03	1.87	0.11	3.98	1.90	0.04	0.01	0.01
HA 1		<	44	7	57	<	<	<	3	<	<	<	21	9	29	<	14	146	507	10	45	6	3	0.19	2.05	0.30	4.23	1.59	0.05	0.05	0.01
HA 2		<	129	15	127	<	<	<	2	<	<	<	31	13	15	<	18	141	959	12	45	15	4	0.20	3.15	0.16	5.45	2.24	0.04	0.03	0.01
HLC 1		<	13	38	40	<	<	<	1	<	<	<	13	148	92	<	101	46	394	7	25	3	3	0.07	0.76	0.12	2.21	1.74	0.05	0.15	0.01
HO 1		<	22	5	63	<	<	<	3	<	<	<	21	13	36	<	55	156	772	10	30	11	14	0.23	3.91	0.06	4.56	2.35	0.06	0.15	0.01
HO 2		<	21	6	95	<	<	<	7	<	<	<	13	14	132	<	50	107	598	7	30	7	3	0.15	1.39	0.04	3.65	0.78	0.08	0.06	0.01
HO 3		0.1	40	13	76	<	8	<	2	<	<	<	28	89	57	<	215	105	641	6	39	6	4	0.10	3.99	0.19	4.15	3.47	0.07	0.25	0.01
HOS 1		<	7	<	30	<	<	<	1	<	<	0.1	5	10	50	<	22	33	163	7	38	2	2	0.05	0.69	0.35	1.46	0.45	0.04	0.02	0.01
HOS 2		<	11	3	52	<	<	<	1	<	<	0.2	6	12	75	<	22	37	284	7	33	2	2	0.05	0.87	0.11	1.76	0.60	0.09	0.03	0.01
HOS 3		<	10	4	52	<	<	<	1	<	<	<	5	12	71	<	25	45	253	8	30	2	2	0.05	0.83	0.04	2.04	0.58	0.08	0.03	0.01
HS 1		<	2	5	27	<	7	<	5	<	<	<	8	17	105	<	92	33	351	<	0	1	3	0.05	0.93	0.10	1.96	0.87	0.25	0.01	0.01
HS 2		<	14	3	38	<	9	<	2	<	<	<	11	6	141	<	24	44	550	13	38	11	3	0.06	1.20	0.01	3.00	1.02	0.59	0.06	0.01
HS 3		<	119	4	94	<	14	<	5	<	<	<	41	66	130	<	111	196	777	2	32	1	15	0.13	3.42	0.14	8.40	3.02	0.72	0.02	0.01

Min Limit	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Max Reported*	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	999	9999	999	9999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	!	5.00	
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	
—No Test ins=insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined e=Estimate /1000 % Estimate X Max-No Estimate																															
International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph: 604/879-7878 Fax: 604/879-7898																															