

LOG NO: 09-27	RD.
ACTION:	
FILE NO:	

DIAMOND DRILLING REPORT

on the

MURPHY, MAGGIE, M 2, M 3 AND GOLDRAP 1 TO 4 CLAIMS

Princeton Area
Similkameen Mining Division

92H-7E
(49° 20' N. Lat., 120° 38' W. Long.)

for

MURPHY SHEWCHUK

Keremeos, B.C.
VOX 1N0
(Owner and Operator)

by

GRANT F. CROOKER, B.Sc., F.G.A.C.
Consulting Geologist

GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,313

June, 1990

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SUMMARY AND RECOMMENDATIONS

The Goldrop Property is located 16 kilometers southwest of Princeton, near Whipsaw Creek in southern British Columbia. The property consists of 8 claims totalling 40 units.

The property is underlain by Upper Triassic Nicola Group volcanic and sedimentary rocks. Mineralization consists of calcite veinlets and carbonate altered zones with minor silicification, containing pyrite, sphalerite and minor chalcopyrite. Some gold values are also associated with the mineralization.

During 1988 two BQ diamond drill holes totalling 272.25 meters were drilled on the property. DDH-88-1 intersected one narrow zone from 74.85 to 75.46 meters which gave an anomalous gold value of 1225 ppb in a carbonate altered zone containing 5% pyrite. DDH-88-2 intersected a number of carbonate altered zones between 121.62 and 128.08 meters which gave anomalous zinc, copper and gold values. The best intersections were as follows:

Intersection(m)	Width(m)	Au(ppb)	Zn(ppm)	Cu(ppm)
121.62-122.12	0.50	365	91226	2481
122.83-123.43	0.60	445	85063	2438
126.48-126.98	0.50	5590	76357	4039

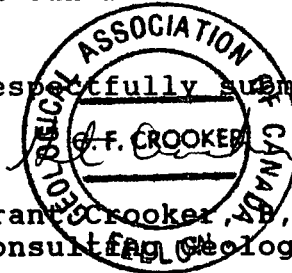
DDH-89-1 also intersected the carbonate altered zone found in DDH-88-1 between 104.32 and 110.06 meters. This confirmed the continuity of mineralization along strike and down dip between the two drill holes. The mineralization consists of pyrite, sphalerite and chalcopyrite within two carbonate altered zones. The mineralized intersections are as follows:

Intersection(m)	Width(m)	Au(ppb)	Zn(ppm)	Cu(ppm)
104.27-105.18	0.91	40	630	158
105.18-105.79	0.61	45	6186	371
107.62-108.23	0.61	150	8.85%	4000
108.23-110.06	1.83	145	80000	7700

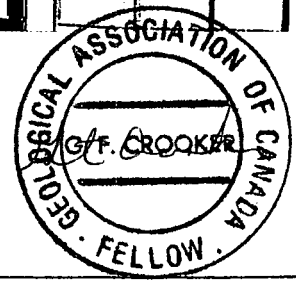
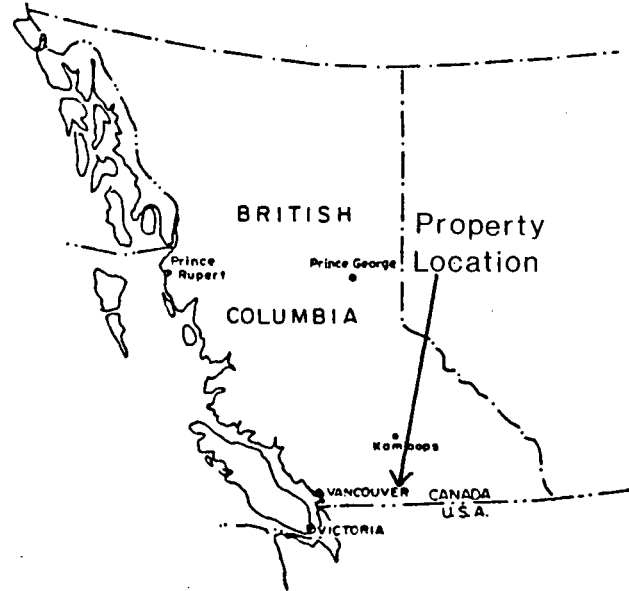
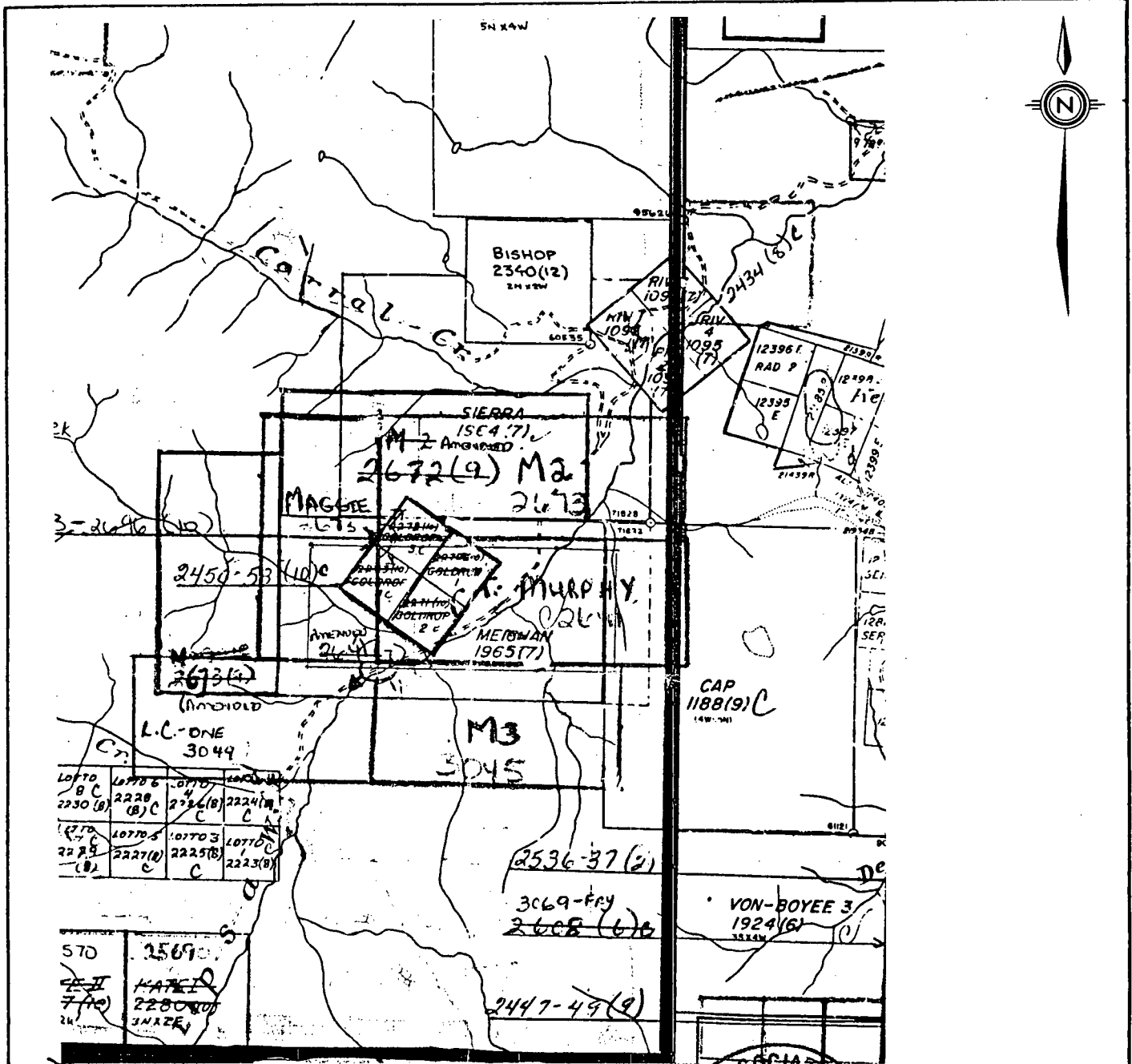
The highest assay values were between 108.23 and 110.06 meters and gave 8.85% zinc, 7700 ppm copper and 145 ppb gold. The copper and zinc values are comparable to the values from the 1988 drilling but the gold values are much lower. There is no obvious reason for the large difference in gold values.

Recommendations are to carry out surface exploration on the property. This program should consist of establishing a grid in the area of the drilling, and carrying out geochemical sampling, prospecting and geological mapping. On the basis of the surface exploration, a decision can be on further diamond drilling.

Respectfully submitted,



Grant Crooker, B.Sc., F.G.A.C.,
Consulting Geologist



MURPHY SHEWCHUK	
GOLDROP PROPERTY LOCATION MAP	
SCALE 1:50,000	
DRAWN BY: G. Crooker	N.T.S.: 92H-7E
DATE: June 1990	FIGURE No. 1

1.0 INTRODUCTION

1.1 GENERAL

Diamond Drilling was carried out on the Goldrop Property during August of 1989. Murphy Shewchuk supervised the drilling and Grant Crooker was retained to prepare the report.

Diamond drill hole 89-1 was collared adjacent to drill hole 88-2 which gave anomalous values in zinc, copper and gold.

1.2 LOCATION AND ACCESS

The property (Figure 1) is located approximately 16 kilometers southwest of Princeton in the Whipsaw Creek area of southern British Columbia. The property lies between 49°19' and 49°21' north latitude and 120°36' and 120°39' west longitude (NTS 92H-7E).

Access is from the Hope-Princeton Highway turning off the highway at Whipsaw Creek. A good two wheel drive logging road passes through the property and several four wheel drive roads provide access to different areas of the property.

1.3 PHYSIOGRAPHY

The property lies along the eastern margin of the Cascade Mountains and elevation varies from 945 to 1460 meters above sea level. Topography varies from moderate to steep with Whipsaw Creek flowing northeasterly through the property.

Fir and spruce trees cover most of the property, with varying amounts of brush. The area is subject to heavy snowfalls in the winter.

1.4 PROPERTY AND CLAIM STATUS

The Goldrop Property (Figure 1) consists of four modified grid claims and four two post claims covering 40 units in the Similkameen Mining Division. The property is owned by Mr. Roy Huff of Princeton B.C. and Mr. Murphy Shewchuk of Keremeos, B.C..

Claim	Units	Mining Division	Record Number	Record Date	Expiry Date
Murphy	10	Similkameen	2641(07)	31/07/86	31/07/91*
Goldrop 1	1	Similkameen	2693(10)	06/10/86	06/10/91*
Goldrop 2	1	Similkameen	2694(10)	06/10/86	06/10/91*
Goldrop 3	1	Similkameen	2695(10)	06/10/86	06/10/91*
Goldrop 4	1	Similkameen	2696(10)	06/10/86	06/10/91*
M 2	10	Similkameen	2672(09)	11/09/86	11/09/91*
Maggie	8	Similkameen	2673(09)	11/09/86	11/09/91*
M 3	8	Similkameen	3045(10)	05/10/87	05/10/91*

* Including the work credits from this report.

1.5 AREA AND PROPERTY HISTORY

The mining history of the Princeton area goes back to the late 1800's. Initial prospecting was for placer gold, with hard rock prospecting following shortly afterwards.

The Whipsaw Creek area also has a long history of mining. The copper deposits at Copper Mountain located seven kilometers east of the Goldrop property were first discovered by a trapper named Jameson in 1884. Production did not begin from Copper Mountain until 1925, and large scale production has continued to the present time, with the exception of a 23 year period from 1957 to 1970.

Nothing is known of the early history of the Goldrop property, although it was probably first discovered in the early 1900's. A caved adit and a number of hand trenches indicate work was carried out on the property during this time. During the 1970's the Huff brothers of Princeton carried out trenching and drilling on the property. Little is known of this work, but anomalous gold, copper and zinc values were reported from the drilling.

The property was restaked by Huff and Shewchuk in 1986 and Shewchuk drilled two holes during 1988. DDH-88-1 was drilled near Fourteen Mile Creek and intersected one narrow zone between 74.85 and 75.46 meters which gave 1255 ppb gold and 1369 ppm zinc.

DDH-88-2 was drilled in the general vicinity of the 1970's drilling and intersected several zones of calcite veining and carbonate alteration with anomalous gold, zinc and copper values. The mineralized zones occur between 121.62 and 128.08 meters and the best intersections are as follows:

Intersection (m)	Width (m)	Au (ppb)	Zn (ppm)	Cu (ppm)
121.62-122.12	0.5	365	91226	2481
122.83-123.43	0.6	445	85063	2438
126.48-126.98	0.5	5590	76357	4039

2.0 EXPLORATION PROCEDURE

The program covered by this report consisted of one BQ diamond drill hole totalling 148.17 meters. The core is stored at the residence of Mr. Murphy Shewchuk in Keremeos, B.C..

Core samples were submitted for assay on mineralized zones. Eighteen samples were analyzed by ICP and Au-fire, with a number of other samples assayed for gold, zinc, cadmium and gallium.

Laboratory technique for analysis consists of drying samples at 95° C and grinding to -150 mesh. For ICP analysis, a 0.5 gram sample is digested with an HCl-HNO₃ acid leach at 95° C for one hour and is diluted to 10 ml with water. Gold analysis is by acid leach with an AA finish from a 10 gram sample.

Most of the samples were analyzed by Chemex Labs Ltd., with ACME Analytical Laboratories Ltd. also analyzing 5 samples.

3.0 GEOLOGY AND MINERALIZATION

The property lies along the western margin of the Intermontane Belt of southern British Columbia. Upper Triassic Nicola group volcanic and sedimentary rocks underlie the property. The volcanic succession includes massive flow units, coarse to very fine-grained pyroclastic units and some pillow lavas. These rocks are generally andesite to basaltic andesite in composition. The sedimentary succession includes siltstone, argillite, conglomerate and some reefoid limestone.

Mineralization on the property, as outlined by drilling consists of calcite veinlets and carbonate altered zones with minor silicification containing pyrite, sphalerite and minor chalcopyrite. Anomalous gold values are also associated with the mineralization.

The carbonate altered zones consist of a series of narrow (0.5 m) calcite veins with barren zones of andesite between them.

4.0 DIAMOND DRILLING

Diamond drilling was carried out on the property during August of 1989. A summary of the pertinent data is given below.

Drill Hole No.	Bearing(°)	Angle(°)	Depth(m)
DDH-89-1	019°	-51°	148.17

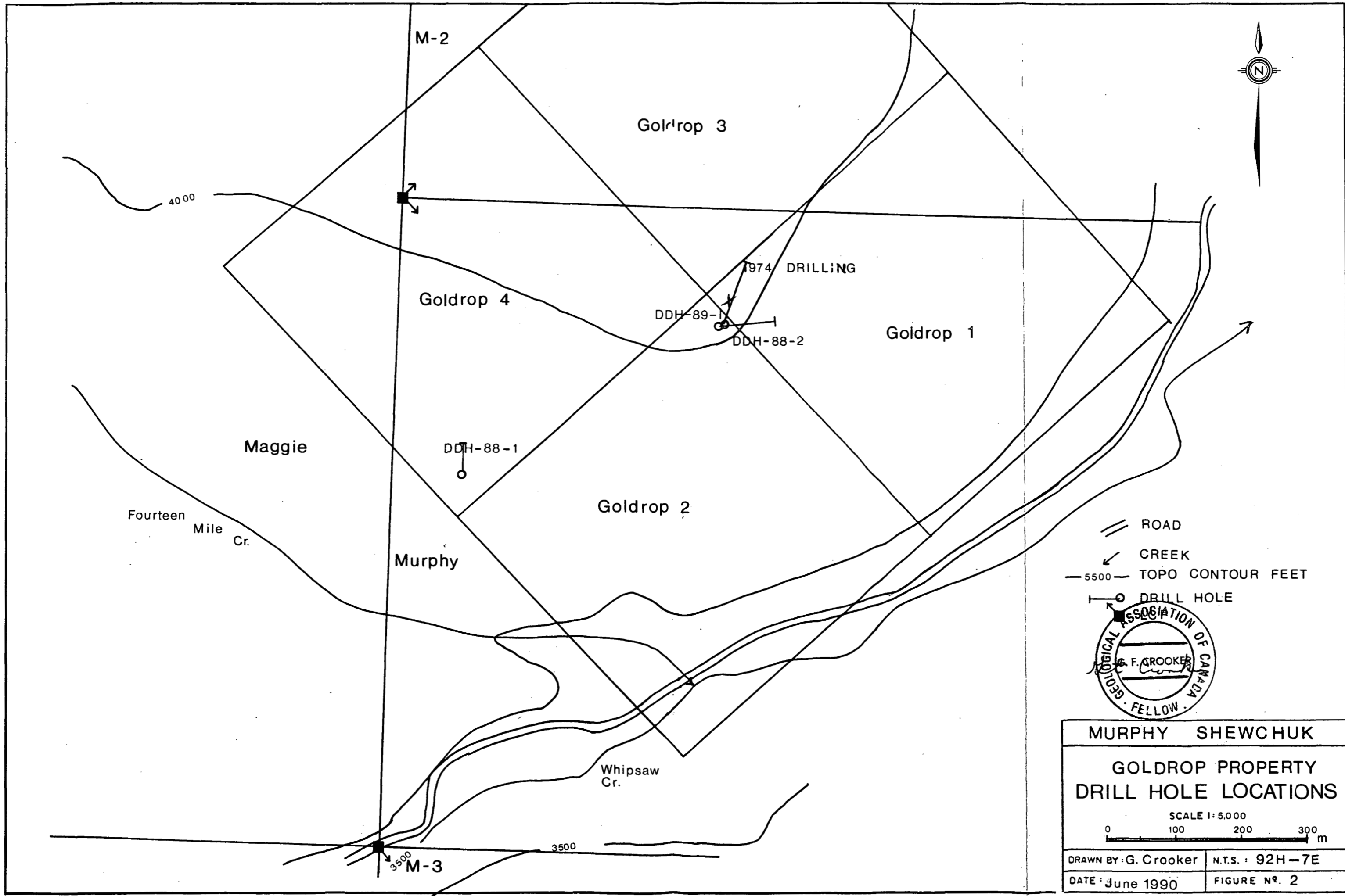
DDH-89-1 was drilled adjacent to DDH-88-1 which gave anomalous gold, copper and zinc values between 121.62 and 128.00 meters.

DDH-89-1 intersected the carbonate altered zone found in DDH-88-1 between 104.32 and 110.06 meters. The mineralization consists of pyrite, sphalerite and chalcopyrite within two carbonate altered zones. The mineralized intersections are as follows:

Intersection(m)	Width(m)	Au(ppb)	Zn(ppm)	Cu(ppm)
104.27-105.18	0.91	40	630	158
105.18-105.79	0.61	45	6186	371
107.62-108.23	0.61	150	8.85%	4000
108.23-110.06	1.83	145	80000	7700

The upper zone (104.27-105.79) gave weakly anomalous zinc, copper and gold values. Traces of mariposite were also noted in this section. The lower zone (107.62-110.06) gave significant zinc values of up to 8.85% and copper values of up to 7700 ppm, but only weakly anomalous gold values of up to 150 ppb. The interval between the two zones consists of unmineralized andesite. The drill hole appears to cut the mineralization at 45°.

The Nicola rocks in the section from the surface to the carbonate altered and mineralized zone contain pervasive pyrite in concentrations varying up to 15%. A number of assays were taken from this section but with one exception they returned gold values of 20 ppb or less. The interval from 32.62 to 33.54 meters gave 60 ppb gold.



- == ROAD
- ↘ CREEK
- 5500 - TOPO CONTOUR FEET
- DRILL HOLE



MURPHY SHEWCHUK	
GOLDROP PROPERTY DRILL HOLE LOCATIONS	
SCALE 1:5,000	
DRAWN BY: G. Crooker	N.T.S.: 92H-7E
DATE: June 1990	FIGURE No. 2

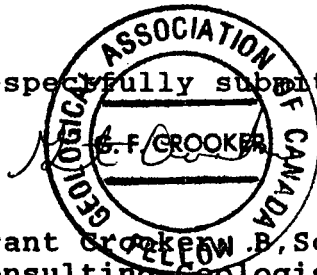
5.0 CONCLUSIONS AND RECOMMENDATIONS

The 1989 drill hole (DDH-89-1) was successful in intersecting the mineralized zone originally located in DDH-88-2. Thus the continuity of the mineralization along strike and down dip was confirmed between the two drill holes.

Pyrite, sphalerite and chalcopyrite were found in two carbonate altered zones between 104.27 and 105.79 meters and 107.62 and 110.06 meters in DDH-89-1. The highest assay values were between 108.23 and 110.06 meters and gave 8.85% zinc, 7700 ppm copper and 145 ppb gold. The copper and zinc values are comparable to the values from the 1988 drilling but the gold values are much lower. There is no obvious reason for the large difference in gold values.

Recommendations are to carry out surface exploration on the property. This program should consist of establishing a grid in the area of the drilling, and carrying out geochemical sampling, prospecting and geological mapping. On the basis of the surface exploration, a decision can be on further diamond drilling.

Respectfully submitted,



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Consulting Geologist

6.0 REFERENCES

B.C.D.M.: G.E.M., 1970 (pp 379, 384); 1971 (pp272); 1973 (pp24, 158); 1974 pp115; 1975 (ppE70).

B.C.D.M.: M.M.A.R. 1966 (pp169)

Crooker, Grant F., (July 1988): Diamond Drilling Report on the Murphy, Maggie, M 2, M 3, and Goldrop 1 to 4 Claims, Princeton Area, Similkameen Mining Division, for Murphy Shewchuk.

Preto, V.A., (1972): Geology of Copper Mountain, B.C.D.M. Bulletin 59.

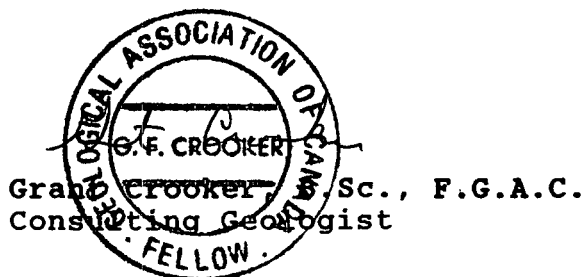
Rice, H.M.A., (1947): Geology and Mineral Deposits of the Princeton Map-Area, B.C., Geological Survey of Canada Memoir 243.

7.0 CERTIFICATE OF QUALIFICATIONS

I, Grant F. Crooker, of Upper Bench Road, Keremeos, in the Province of British Columbia, hereby certify as follows:

1. That I graduated from the University of British Columbia in 1972 with a Bachelor of Science Degree in Geology.
2. That I have prospected and actively pursued geology prior to my graduation and have practised my profession since 1972.
3. That I am a member of the Canadian Institute of Mining and Metallurgy.
4. That I am a Fellow of the Geological Association of Canada.
5. That I have no direct or indirect interest in the property.

Dated this 3rd day of Sept. , 1990, at Keremeos, in the Province of British Columbia.



Appendix I

CERTIFICATES OF ANALYSIS

GEOCHEMICAL ANALYSIS CERTIFICATE

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: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: SEP 9 1989

DATE REPORT MAILED: *Sept 15, 1989*SIGNED BY: *D. Toye* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

MURPHY SHEWCHUK

File # 89-3539

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*	Ga	Zr
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	PPM	PPB	PPM	PPM	
M1 186-188	1	32	4	39	.7	17	21	523	5.16	29	5	ND	1	134	1	2	12	41	1.57	.077	2	11	.99	23	.02	2	1.55	.06	.21	1	6	-	-
M3 176-184	1	59	13	62	.3	7	22	471	5.41	8	5	ND	1	145	1	2	2	18	2.33	.081	4	2	1.05	23	.01	8	1.52	.04	.12	1	5	4	67
M3 251-252	16	75	6	57	.2	11	24	333	5.38	6	5	ND	1	14	1	2	2	26	.81	.082	8	2	.90	19	.01	9	1.16	.02	.12	1	8	2	64
M3 300-303	2	108	5	54	.2	16	19	439	4.66	7	5	ND	1	20	1	2	2	59	1.53	.072	2	23	2.23	16	.03	2	2.49	.03	.08	1	7	-	-
M3 345-347	2	371	17	6186	.8	11	19	890	5.02	15	5	ND	1	72	42	2	3	26	3.69	.074	3	15	1.25	25	.01	4	2.11	.04	.09	1	45	-	-



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Project:
 Comments:

Page No.: 1-A
 Tot. Pages: 1
 Date: 21-SEP-89
 Invoice #: I-8925339
 P.O. #: NONE

CERTIFICATE OF ANALYSIS A8925339

SAMPLE DESCRIPTION	PREP CODE	Au ppb	Zr-XRF	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
		FAAAA	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%
MI-136-138	205 238	15	—	2.38	1.4	< 5	40	< 0.5	< 2	1.52	< 0.5	25	59	80	6.12	10	< 1	0.18	< 10	1.58
MD-155-166	205 238	10	78	1.99	0.2	< 5	20	< 0.5	< 2	2.47	0.5	22	28	96	5.72	< 10	< 1	0.21	< 10	0.80
MD-245-251	205 238	20	75	1.52	0.4	15	30	< 0.5	< 2	1.32	< 0.5	26	15	84	6.06	10	< 1	0.20	10	0.98

CERTIFICATION : B. Coughlin



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* Page No. : 1-B
Tot. Pages: 1
Date : 21-SEP-89
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P.O. #: NONE

CERTIFICATE OF ANALYSIS A8925339

SAMPLE DESCRIPTION	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
M1-136-138	205 238	280	< 1	0.11	32	760	46	< 5	4	874	0.02	< 10	< 10	57	< 10	48
M3-155-166	205 238	380	1	0.09	6	1080	26	< 5	2	30	< 0.01	< 10	< 10	17	< 10	88
M3-245-251	205 238	505	30	0.02	7	960	12	< 5	3	22	< 0.01	< 10	< 10	29	< 10	72

CERTIFICATION :

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Date :13-NOV-89
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P.O. #:NONE

CERTIFICATE OF ANALYSIS A8929824

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Ga	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
			FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
MB-107-110	205	238	60	11	0.98	1.6	25	20	< 0.5	< 2	3.08	< 0.5	22	18	31	5.04	< 10	< 1	0.17	< 10	0.50
MB-120-123	205	238	10	12	1.50	0.2	40	20	< 0.5	< 2	2.49	< 0.5	25	18	41	6.20	< 10	< 1	0.14	< 10	1.24
MB-197-202	205	238	10	13	1.68	< 0.2	75	90	< 0.5	< 2	2.68	< 0.5	33	51	97	6.27	< 10	< 1	0.19	< 10	1.10
MB-317-320	205	238	20	11	1.46	< 0.2	25	30	< 0.5	< 2	7.70	52.5	23	53	246	5.57	< 10	< 1	0.21	< 10	1.07
MB-323-327	205	238	10	11	2.76	< 0.2	< 5	30	< 0.5	< 2	2.64	1.0	21	71	143	5.97	< 10	< 1	0.15	< 10	2.64

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P.O. # : NONE

CERTIFICATE OF ANALYSIS A8929824

SAMPLE DESCRIPTION	PREP CODE	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MS-107-110	205 238	680	4	0.06	10	920	4	< 5	2	62	0.02	< 10	< 10	18	< 10	48
MS-120-123	205 238	575	3	0.06	6	1070	6	< 5	2	35	0.08	< 10	< 10	31	< 10	40
MS-197-202	205 238	515	2	0.08	10	970	22	5	3	113	0.01	< 10	< 10	24	< 10	94
MS-317-320	205 238	1750	4	0.03	16	780	8	5	4	39	0.06	< 10	< 10	32	< 10	6130
MS-323-327	205 238	1335	3	0.04	16	870	< 2	< 5	5	26	0.05	< 10	< 10	65	< 10	132

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Tot. Pages: 1
Date : 13-NOV-89
Invoice # : I-8929433
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8929433

SAMPLE DESCRIPTION	PREP CODE	Au	Pd	Pt	Al	Ag	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La
		ppb AFS	ppb AFS	ppb AFS	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%
MI-133-135	205 238	< 2	< 2	< 5	2.88	< 0.2	< 5	20	< 0.5	< 2	1.85	1.0	27	96	12	5.55	< 10	< 1	0.14	< 10
MI-136-138	205 238	< 2	< 2	< 5	1.89	< 0.2	< 5	20	< 0.5	2	1.46	0.5	15	64	17	5.10	< 10	< 1	0.14	< 10
MI-186-189	205 238	14	< 2	< 5	2.30	< 0.2	5	20	< 0.5	2	2.93	< 0.5	23	30	96	7.47	< 10	< 1	0.12	< 10
MI-193-197	205 238	14	< 2	< 5	1.60	< 0.2	15	30	< 0.5	4	1.72	< 0.5	22	30	59	6.40	< 10	< 1	0.17	< 10
MI-297-300	205 238	6	< 2	< 5	2.99	< 0.2	< 5	30	< 0.5	2	1.79	< 0.5	33	71	92	6.34	< 10	< 1	0.13	< 10

CERTIFICATION : B. Coughlin



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• Page No.: 1-B

Tot. Pages: 1

Date: 13-NOV-89

Invoice #: I-8929433

P.O. #: NONE

CERTIFICATE OF ANALYSIS A8929433

SAMPLE DESCRIPTION	PREP CODE		Mg	Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MI-133-135	205	238	1.91	525	< 1	0.27	30	730	< 2	< 5	6	55	0.05	< 10	< 10	90	< 10	60
MI-136-138	205	238	1.48	390	< 1	0.07	26	820	< 2	< 5	4	102	0.01	< 10	< 10	51	< 10	42
MI-186-189	205	238	1.85	565	1	0.06	6	950	< 2	5	4	66	0.04	< 10	< 10	50	< 10	54
MI-193-197	205	238	1.22	385	1	0.06	7	1180	8	< 5	3	105	< 0.01	< 10	< 10	26	< 10	44
MI-297-300	205	238	2.65	740	2	0.06	26	950	< 2	< 5	9	37	0.05	< 10	< 10	97	< 10	60

CERTIFICATION :

B. Coughlin

FLUO RESCENT
X RAY
SPECTROGRAPHIC
Analytical Laboratory

718 Sherman Street (rear)
Denver, Colorado 80203
Phone (303) 837-1396
Merlyn L. Salmon, Manager

XXXX QUALITATIVE
XXXX SEMI-QUANTITATIVE
_____ QUANTITATIVE

ANALYTICAL REPORT

Job Number 34523
Page 2 of 3 Pages
Date 4 Apr 1990

TO: Hecla Mining

SAMPLE: DD Hole M3 355-361'

Copper	7700	Iron	72000	Lanthanum	_____
Silver	_____	Cobalt	_____	Cerium	_____
Gold	_____	Nickel	_____	Praseodymium	_____
Zinc	80000	Cesium	_____	Neodymium	_____
Cadmium	560	Rubidium	_____	Samarium	_____
Mercury	_____	Barium	780	Europium	_____
Gallium	_____	Strontium	_____	Gadolinium	_____
Indium	_____	Titanium	_____	Terbium	_____
Thallium	_____	Zirconium	_____	Dysprosium	_____
Germanium	_____	Hafnium	_____	Holmium	_____
Tin	_____	Thorium	_____	Erbium	_____
Lead	_____	Vanadium	_____	Thulium	_____
Arsenic	63	Columbium	_____	Ytterbium	_____
Antimony	_____	Tantalum	_____	Lutetium	_____
Bismuth	_____	Chromium	_____	Yttrium	_____
Selenium	_____	Molybdenum	_____	_____	_____
Tellurium	_____	Tungsten	_____	_____	_____
Bromine	_____	Uranium	_____	_____	_____
Iodine	_____	Manganese	780	_____	_____

The values above are estimated elemental concentrations in:
_____ per cent XXXX parts per million _____ grams per liter

No check was made for elements with atomic numbers less than 22.

By Merlyn L. Salmon



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: SHEWCHUK, MURPHY

S.10, C.9, R.R. #1
KEREMEOS, BC
VOX 1N0

Page Number : 1
Total Pages : 1
Invoice Date : 18-OCT-89
Invoice No. : I-8927527
P.O. Number : NONE

Project :
Comments :

4840221

CERTIFICATE OF ANALYSIS

A8927527

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Cu ppm	Zn ppm	Ga ppm						
M3-166-176	205 --	-----	-----	1240	13						
M3-206-210	205 --	-----	-----	250	12						
M3-210-211	205 --	-----	-----	95	15						
M3-342-345	205 --	40	158	630	-----						
M3-353-355	205 --	150	4000	>10000	-----						
M3-355-361	205 --	145	3880	>10000	-----						

CERTIFICATION :

Hart Bickler



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To : SHEWCHUK, MURPHY

S.10, C.9, R.R. #1
KEREMEOS, BC
VOX 1NO

Project :
Comments :

• Page No. : 1
Tot. Pages : 1
Date : 19-NOV-89
Invoice # : I-8929554
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8929554

SAMPLE DESCRIPTION	PREP CODE		Ga ppm	Ge ppm								
MB-342-345	214	---	15	-----								
MB-353-355	214	---	10	-----								
MB-355-361	214	---	5	< 5								

CERTIFICATION : *Jan Beckler*



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: SHEWCHUK, MURPHY

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VOX 1NO

Project:
Comments:

• Page No. : 1
Tot. Pages: 1
Date : 31-OCT-89
Invoice # : I-8929141
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8929141

SAMPLE DESCRIPTION	PREP CODE	Zn %	Cd %						
MB-353-355	214 --	8.85	0.078						
MB-355-361	214 --	1.64	0.015						

CERTIFICATION :

Paul Bickler

Appendix II

DRILL LOGS

DRILL HOLE EVALUATION SUMMARY

Company Murphy Shewchuk Property Goldrop Section No. _____ Hole No. DDH-89-1

Started <u>August</u>	Bearing <u>019°</u>	Lat. _____	Collar El. _____	Logged by <u>Grant Crocker</u>
Completed _____	Angle <u>-51°</u>	Dep. _____	Bottom El. _____	Remarks _____
Driller <u>George Adam</u>	Length <u>148.17m</u>	Location _____	Level _____	

INTERVAL(m)		CORE RECOVERED			DESCRIPTION	Sample No.	Interval m	m width	ASSAY		
From	To	Wt.	Fr.	%					Au ppb	Cu ppm	Zn ppm
0	6.70				Casing						
6.70	8.84				light grey-green, bleached andesite, porphyritic grey feldspars, random 1-3mm fractures with calcite, 4% pervasive py.						
8.84	18.70				light green volcanic breccia, porphyritic andesite fragments?, 1-4mm fractures with calcite, 2-5% pervasive py 12.15 - 1cm calcite veinlet @ 90° to core 17.60 - 3cm calcite veinlet @ 80° to core						
18.70	20.00				mud, fault gouge						
20.00	26.05				sheared, sergentized volcanic breccia?, fault gouge, weak calcite veining, 2% py 22.20 - 7cm qtz veinlet & 2% py						
26.05	27.00				light green andesite, weakly sheared, 2% py						
27.00	37.50				cream volcanic breccia?, 3cm rounded bx fragments, altered, 2-5% pervasive py, weak calcite veining, foliation at 45° to core	-	32.62-33.54	0.92	60	31	48
						-	36.59-37.50	0.91	10	41	40
37.50	41.91				light green andesite, occasional fg grey	-	40.55-41.16	0.61	< 2	12	60

DRILL HOLE EVALUATION SUMMARY

Company Murphy ShawchukProperty Goldrop

Section No. _____

Hole No. DDH-89-1

Started		Bearing		Lat.		Collar El.		Logged by <u>Grant Crooker</u>			
Completed		Anglo		Dep.		Bottom El.		Remarks			
Driller		Length		Location		Level					
INTERVAL (m)		CORE RECOVERED			DESCRIPTION	Sample No.	Interval m	m width	ASSAY		
From	To	Wt.	Fr.	%					Au ppb	Cu ppm	Zn ppm
					feldspars, random 1-5 mm fractures with calcite	-	41.46-42.07				
					37.90-5cm white calcite veinlet $\approx 70^\circ$ to core						
					40.62-2cm white calcite veinlet $\approx 45^\circ$ to core						
41.91	44.51				light grey to cream volcanic breccia? altered, weak 1-4mm fractures with calcite						
44.51	47.10				light green andesite, 1% py						
47.10	56.15				cream volcanic breccia? occasional 2cm purple andesite fragments, 2-10% py, minor fracturing with calcite	-	47.26-50.61	3.35	10	96	88
						-	50.61-53.66	3.05	-	-	1240
						-	53.66-56.1	2.44	5	59	62
56.15	57.96				light green andesite, 2-5% py, random 1-2mm fractures with calcite	-	56.71-57.32	0.61	6	32	39
						-	56.71-57.62	0.91	14	96	54
57.96	73.78				cream volcanic breccia? 2-5% py, altered, random 1-4mm fractures with calcite	-	58.84-60.06	1.22	14	59	44
						-	60.06-61.59	1.53	10	97	94
					69.49-69.56 - 7cm calcite veinlet $\approx 45^\circ$ to core, 5% py, 2% sph	-	62.8-64.02	1.22	-	-	250
						-	64.02-64.33	0.31	-	-	95
73.78	83.17				light green volcanic breccia?	-	74.7-76.52	1.82	20	84	72
						-	76.52-79.80	3.36	8	75	57
83.17	90.30				light green andesite, $\frac{1}{2}$ -2% py						
90.30	104.32				light green volcanic breccia, 2-5% py,	-	90.55-91.46	6	92	60	

DRILL HOLE EVALUATION SUMMARY

Company Murphy Shewchuk Property Goldtrap Section No. _____ Hole No. DDH-99-1

Started	Bearing	Lat.	Collar El.	Logged by <u>Grant Crocker</u>
Completed	Anglo	Dep.	Bottom El.	Remarks
Driller	Length	Location	Level	

INTERVAL (m)		CORE RECOVERED			DESCRIPTION	Sample No.	Interval (m)	m width	ASSAY			
From	To	Wt.	Fi.	%					Au ppb	Cu ppm	Zn ppm	
					random fractures with calcite	-	92.46-93.9	2.44	7	108	54	
					99.95 - 2cm calcite veinlet @ 20° to core, 1% py,	-	96.65-97.56	0.91	20	246	6130	
					1% sph, tr cpy	-	98.46-99.7	1.22	10	143	132	
					103.0 - 1cm calcite veinlet @ 60° to core							
104.32	105.17				- calcite veining @ 45° core, 10% py,	-	104.27-105.18	0.91	40	158	630	
					tr sph, manigosite							
105.17	107.95				light green volcanic breccia?, random	-	105.15-105.77	0.61	45	371	6186	
					1-10mm calcite veinlets, tr py							
					105.62-105.77 - calcite veining, 5% py							
107.95	110.00				carbonate alteration, (calcite), massive	-	107.62-108.23	0.61	150	4000	8.85%	
					sulphides, 10% py, 10% sph, 1% cpy, @ 45° to core	-	108.23-110.00	1.83	-	7700	80,000	
						-	108.23-110.00	1.83	145	3,880	1.64%	
110.00	148.17				light green andesite, 1-2mm grey feldspar							
					phenocrysts, 2-5% epidote, random 1-10mm							
					fractures with calcite							
148.17					End of Hole							

Appendix III

COST STATEMENT

COST STATEMENT

SALARIES

- Grant Crooker, Geologist
June 16, 17, 22, 23, 1990
4 days at \$ 350.00 per day \$ 1,400.00

DRILL COSTS

- Longyear 38 Diamond Drill
148.17 meters (BQ) @ \$ 75.00 per meter 11,112.75

ANALYSIS

- 18 core/sludge samples, ICP, Au-fire
@ \$ 16.25/sample 292.50
- 2 core samples, Zn @ \$ 6.00/sample 12.00
- 2 core samples, Cd @ \$ 8.00/sample 16.00

PREPARATION OF REPORT

- Secretarial, reproduction, telephone, etc. 300.00

Total \$ 13,133.25