



Energy, Mines and
Resources Canada

Geological Survey
of Canada Sector

601 Booth Street
Ottawa K1A 0E8

Énergie, Mines et
Ressources Canada

Secteur de la Commission
géologique du Canada

601, rue Booth
Ottawa K1A 0E8

0-2008

May 9, 1989

Dr. W.N. Pearson
Derry, Michener, Booth and Wahl
Suite 410 - Confederation Square
20 Richmond Street East
Toronto, Ontario
M5C 2R9

Dear Bill:

Enclosed are chemical analyses on samples that Barry Devlin collected from the large pyritic alteration zone in the Red Point area at Dolly Varden, plus a covering letter and location maps of his. You can note some anomalous gold values with 2460 ppb Au in sample LCG-019 from the Red Point Extension showing. I hope that this information will be of value to you. I have not evaluated these results in detail but high S, Ba, and alkalis are similar to Sulphur ~~etc.~~. You can decide if the results should be sent to Barry, since he is no longer associated with Dolly Varden Minerals Inc.

Ian Jonasson and I are starting work on samples from the ~~Kit~~ property that Dick Woodcock sent and we would be interested in learning more about Dolly Varden and Torbrit. We hope to visit the area for 2 or 3 days this summer (early to mid-July or third week in August??) and would like to stay in your camp for 1 or 2 nights if possible. I will contact you when our plans are more definite.

You mentioned that you drilled some holes with some good stratigraphic sections through the Ag-barite deposit. I would be interested in obtaining drill logs for a couple of holes (and a location map) that are not structurally complex. We would eventually like to sample the mineralized zone in these holes and footwall and hangwall formations for comparison with the ~~Kit~~ deposit. You mentioned that John Barakso probably discarded the assay pulps from these holes but perhaps you could check with him next time you talk to him.

How is your thesis report? Any chance of getting the next draft from you early in the summer?

Best regards,

Sincerely,

R.V. Kirkham

Encl.
cc. S.B. Ballantyne
I.R. Jonasson
R.F.J. Scoates

Canada



Bondar-Clegg & Company Ltd.
 5420 Canotek Road
 Ottawa, Ontario
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 (613) 749-2220 Telex 0833233

GEOLOGICAL SURVEY OF CANADA
 MR. JOHN LYNCH
 601 BOOTH ST.
 OTTAWA, ONTARIO.
 K1A 0E8

Invoice : 0139064, Page 1

Date : 30-JUN-88

Report No: 088-50709.0
 Project : 23233-6-1332
 Reference: DOLLY VARDEN

REQ# 8-0481

22 Analyses of "Au + 33" Option II at \$15.02 \$ 330.44 \$ 330.44

- | | |
|------------|-----------|
| Silver | Arsenic |
| Gold | Barium |
| Bromine | Cadmium |
| Cerium | Cobalt |
| Chromium | Cesium |
| Europium | Iron |
| Hafnium | Iridium |
| Lanthanum | Lutetium |
| Molybdenum | Sodium |
| Nickel | Rubidium |
| Antimony | Scandium |
| Selenium | Samarium |
| Tin | Tantalum |
| Terbium | Tellurium |
| Thorium | m |
| Tungsten | eight |
| Ytterbium | |
| Zi | |

Sample Preparation

22 Samples of As Received, No SP	\$ 0.00	\$ 0.00	
Subtotal		\$ 0.00	\$ 0.00

Invoice Total:

\$ 330.44 Cdn

Rec'd: John Lynch
Payable from 790003

GEOLOGICAL SURVEY OF CANADA
MINERAL RESOURCES DIVISION
ANALYTICAL CHEMISTRY SECTION

REPORT OF ANALYSIS

Requisition No.:

66-88

Submitted by:

Ballantyne S.

Project No.:

790003

Number of Samples:

22

Requisition Rec'd:

06/28/88

Report Completed:

89 / 01 / 03

This Report includes results from the



ANALYTICAL CHEMISTRY LABORATORY



to come

GEOCHEMISTRY LABORATORY



ICP-EMISSION SPECTROMETRY LAB.



X-RAY FLUORESCENCE LABORATORY



to come

COMMERCIAL LABORATORY

Comments: This report may include whole rock analyses (majors)
----- by ICP and/or XRF methods. Results have so been
identified and appropriate estimate of validity
of results have been attached for both methods.

1.1

GEOLOGICAL SURVEY OF CANADA
 MINERAL RESOURCES DIVISION
 ANALYTICAL CHEMISTRY SECTION
 CP - EMISSION SPECTROMETRY LABORATORY

 * REPORT OF ANALYSIS *

DATE: 3 NOV. 88
 REPORT NO. 66-88
 SUBMITTED BY: BALLANTYNE B.
 PROJECT NO. XXX7903
 METHOD: ICP-MJ1 , ICP-TR1 , Ag & Pb by AA.
 FeO , H2O(t) , CO2 , C , S(t) and LOI by chemical methods.

ESTIMATE OF VALIDITY OF RESULTS

ELEMENT	+/-	(ABSOLUTE	+	RELATIVE)
SiO2	+/-	(0.4 %	+	2% OF CONC.)
TiO2		0.02	+	"
Al2O3		0.2	+	"
Fe2O3(t)		0.1	+	"
MnO		0.01	+	"
MgO		0.1	+	"
CaO		0.1	+	"
Na2O		0.1	+	"
K2O		0.1	+	"
FeO		0.2	+	5% OF CONC.
H2O(t)		0.1	+	5% OF CONC.
CO2		0.1	+	3% OF CONC.
C				
P2O5		0.02	+	1% OF CONC.
S(t)		0.04	+	5% OF CONC.
LOI				
Ba	+/-	(20 PPM	+	5% OF CONC.)
Be	+/-	(0.5 PPM	+	5% OF CONC.)
Co	+/-	(5 PPM	+	5% OF CONC.)
Cr	+/-	(10 PPM	+	5% OF CONC.)
Cu	+/-	(10 PPM	+	5% OF CONC.)
La	+/-	(10 PPM	+	5% OF CONC.)
Ni	+/-	(10 PPM	+	5% OF CONC.)
Pb	+/-	(20 PPM	+	10% OF CONC.)
Sr	+/-	(2 PPM	+	5% OF CONC.)
V	+/-	(5 PPM	+	5% OF CONC.)
Y	+/-	(5 PPM	+	5% OF CONC.)
Yb	+/-	(0.5 PPM	+	5% OF CONC.)
Zn	+/-	(5 PPM	+	5% OF CONC.)
Zr	+/-	(10 PPM	+	5% OF CONC.)

hch

REPORT OF ANALYSIS

NAME: BALLANTYNE B.

PROJECT: XXX7903

REQN. NO: 66-88

AB. NO.	1	2	3	4	5	6	7	8
SAMPLE NO:	LGC-001	LGC-002	LGC-003	LGC-004	LGC-005	LGC-006	LGC-007	LGC-008
I02 % :	69.7	60.7	65.9	62.8	64.2	62.2	78.4	88.0
I02 % :	0.47	0.48	0.47	0.26	0.46	0.50	0.34	0.16
L203 % :	14.9	16.6	15.8	8.32	13.9	15.9	14.0	5.70
E203T % :	3.90	7.65	6.10	4.16	7.63	7.74	0.30	2.10
E203 % :	2.8		6.1				0.1	2.1
E0 % :	1.0		0.0				0.2	0.0
ND % :	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
SO % :	0.47	0.78	1.03	0.70	0.84	0.64	0.56	0.33
AO % :	0.03	0.11	0.01	0.05	0.06	0.08	0.17	0.0
A20 % :	1.80	1.22	0.10	0.14	0.13	1.67	0.20	0.00
ZD % :	4.00	4.70	4.53	2.64	4.14	5.44	3.71	1.61

Z0T % :	2.9						1.9	
O2T % :	0.2	0.1	0.2	0.1	0.4	0.1	0.1	0.1
Z05 % :	0.17	0.10	0.17	0.10	0.13	0.08	0.24	0.04
% :	0.89	5.97	4.54	5.81	5.91	5.98	0.01	1.68

A ppm :	1900	1800	1800	78000	6600	2500	1000	2700
B ppm :	0	0	0	0	0	0	0	1
C ppm :	0.7	0.8	1.2	0.7	1.0	0.9	0.8	0.5
D ppm :	5	23	16	11	16	19	4	4
E ppm :	13	15	18	7	20	14	7	7
F ppm :	65	38	23	47	28	37	13	27
G ppm :	21	25	19	2	18	18	16	7
H ppm :	10		20				16	18
I ppm :	0	0	0	0	0	0	0	0
J ppm :	28	20	12	6	4	5	11	20
K ppm :	100		130				100	53
L ppm :	180	41	28	380	43	68	76	35
M ppm :	140	140	150	90	150	150	58	41
N ppm :	45	9	50	2	10	16	15	12
O ppm :	1.3	1.1	1.2	0.3	1.3	1.9	0.7	0.4
P ppm :	20	83	22	990	40	23	1	16
Q ppm :	100	99	89	25	92	110	86	50
TOTALS	99.6	98.6	99.1	92.0	98.5	100.6	100.1	100.0

COMMENTS:

ALL ANALYSIS BY ICP, EXCEPT FE0, H20T, CO2T, CO2, C, S AND LOI BY CHEMICAL METHODS.
 FE203 IS CALCULATED USING $FE203 = FE203T(ICP) - 1.11134 * FE0(VOLUMETRIC)$.
 ICP-MJ1 DATA ARE OBTAINED ON 0.5 G OF SAMPLE FUSED WITH LITHIUM METABORATE,
 DISSOLVED IN 5% HNO3 AND DILUTED TO 250 ML.

ICP-TRI DATA ARE OBTAINED ON 1.0 G OF SAMPLE (ACID + FUSION OF RESIDUE)
 DISSOLVED IN 10% HCL AND DILUTED TO 100 ML.

ANALYTICAL CHEMISTRY SECTION
CP-ES LABORATORY

DATE: 3 NOV. 88

AB. NO.	9	10	11	12	13	14	15	16
SAMPLE NO:	LGC-009	LGC-010	LGC-011	LGC-012	LGC-013	LGC-014	LGC-015	LGC-016
IO2 % :	60.5	66.4	64.4	81.3	79.5	48.9	61.5	56.2
IO2 % :	0.49	0.50	0.59	0.35	0.29	0.56	0.47	0.50
L203 % :	17.6	17.4	16.0	10.2	9.80	17.6	16.1	16.8
E203T % :	4.90	2.00	4.20	2.30	2.50	9.10	8.30	11.1
E203 % :	4.9	2.0	3.5	2.3	2.5	1.0	1.2	11.1
EO % :	0.0	0.0	0.6	0.0	0.0	7.3	6.4	0.0
NO % :	0.04	0.00	0.00	0.00	0.00	0.21	0.21	0.08
GO % :	2.51	0.36	0.66	0.66	0.61	6.67	4.34	3.13
AO % :	0.51	0.19	0.01	0.0	0.10	3.99	0.60	0.34
A20 % :	2.20	4.60	2.50	0.00	0.10	2.50	4.20	2.00
ZO % :	4.91	5.02	6.02	3.05	3.06	2.39	0.90	3.63
ZOT % :			2.8			5.1	3.6	
O2T % :	0.1	0.2	1.8	0.2	0.3	2.8	0.5	0.1
ZO5 % :	0.29	0.21	0.17	0.06	0.18	0.38	0.22	0.28
% :	3.16	1.11	0.59	1.09	1.43	0.03	0.03	1.94
A ppm :	2400	3000	3900	1400	12000	590	540	3600
G ppm :	6	0	0	0	0	0	0	0
E ppm :	1.6	0.6	0.8	0.8	0.8	1.2	0.5	0.9
D ppm :	18	12	5	6	8	36	18	17
R ppm :	14	8	14	8	9	90	21	15
U ppm :	42	26	26	12	20	87	6	36
A ppm :	24	25	24	6	18	4	19	23
B ppm :	14	18	29	11	13	15	26	23
I ppm :	0	0	0	0	0	35	10	0
B ppm :	9	40	43	12	5	0	0	0
B ppm :	130	120	150	99	96	74	34	100
R ppm :	240	230	140	22	120	190	200	81
ppm :	130	120	170	120	90	260	130	160
ppm :	45	38	40	9	18	17	27	56
B ppm :	1.6	1.2	1.6	0.6	0.8	0.9	1.0	2.1
N ppm :	53	30	5	52	9	96	69	120
R ppm :	120	120	100	60	66	68	110	120
TOTALS	97.5	98.4	100.1	99.4	99.1	99.6	100.4	96.5

COMMENTS:

ALL ANALYSIS BY ICP, EXCEPT FE0, H2O2, CO2T, CO2, C, S AND LOI BY CHEMICAL METHODS.
FE203 IS CALCULATED USING $FE203 = FE203T(ICP) - 1.11134 * FE0(VOLUMETRIC)$.
ICP-MJ1 DATA ARE OBTAINED ON 0.5 G OF SAMPLE FUSED WITH LITHIUM METABORATE,
DISSOLVED IN 5% HNO3 AND DILUTED TO 250 ML.

ICP-TR1 DATA ARE OBTAINED ON 1.0 G OF SAMPLE (ACID + FUSION OF RESIDUE)
DISSOLVED IN 10% HCL AND DILUTED TO 100 ML.

CP-ES LABORATORY

AB. NO.	17	18	19	20	21	22	23
AMPLE NO:	LGC-017	LGC-018	LGC-019	LGC-020	LGC-021	LGC-022	66-88-23

#17

I02 % :	72.9	67.7	58.8	58.9	60.6	61.4	73.4
I02 % :	0.37	0.31	0.27	0.53	0.50	0.46	0.35
L203 % :	11.5	11.3	8.93	17.0	18.1	15.5	11.6
E203T % :	4.00	7.93	18.5	8.04	5.90	7.48	4.00
E203 % :	4.0				5.9		4.0
EO % :	0.0				0.0		0.0
NO % :	0.02	0.02	0.21	0.05	0.05	0.01	0.02
GO % :	1.12	0.78	3.86	2.13	2.59	0.40	1.13
AO % :	0.11	0.15	0.19	0.49	0.35	0.10	0.11
A20 % :	1.70	0.38	0.15	4.05	3.50	3.44	1.70
ZO % :	3.10	3.93	0.97	4.27	4.38	5.30	3.12

20T % :							
O2T % :	0.3	0.1	0.1	0.1	0.1	0.3	0.3
Z05 % :	0.16	0.19	0.32	0.39	0.30	0.08	0.16
% :	1.26	5.70	6.74	5.13	1.12	5.86	1.23

A ppm :	8000	1700	330	2400	2600	3100	8000
G ppm :	8	1	2	0	1	0	6
E ppm :	0.7	0.9	0.5	0.8	0.8	0.6	0.7
O ppm :	10	13	18	19	17	52	11
R ppm :	11	13	15	17	14	31	12
U ppm :	54	22	2900	95	55	29	51
A ppm :	14	14	26	9	20	14	16
B ppm :	16				22		10
I ppm :	0	0	10	0	0	0	0
B ppm :	10	15	33	4	6	17	12
B ppm :	97				120		94
R ppm :	160	32	14	160	190	97	150
ppm :	100	95	86	170	140	120	110
ppm :	27	11	9	7	55	30	32
B ppm :	0.8	1.3	1.1	0.9	1.5	2.9	0.8
N ppm :	33	34	150	92	81	63	33
R ppm :	82	76	70	94	120	100	82
TOTALS	97.4	98.7	99.4	101.4	97.8	100.7	98.0

COMMENTS:

ALL ANALYSIS BY ICP, EXCEPT FE0, H2O, CO2, CO, C, S AND LOI BY CHEMICAL METHODS.
 FE203 IS CALCULATED USING $FE203 = FE203T(ICP) - 1.11134 * FE0(VOLUMETRIC)$.
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 DISSOLVED IN 5% HNO3 AND DILUTED TO 250 ML.

ICP-TR1 DATA ARE OBTAINED ON 1.0 G OF SAMPLE (ACID + FUSION OF RESIDUE)
 DISSOLVED IN 10% HCL AND DILUTED TO 100 ML.

REPORT: 088-50709.0 (COMPLETE)

REFERENCE INFO: DULLY VARDEN

CLIENT: GEOLOGICAL SURVEY OF CANADA
 PROJECT: 23233-6-1332

SUBMITTED BY: S.B. BALLANTYNE
 DATE PRINTED: 30-JUN-88

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Na Sodium	22	0.02 PCT		Neutron Activation
2	Sc Scandium	22	0.2 PPM		Neutron Activation
3	Cr Chromium	22	20 PPM		Neutron Activation
4	Fe Iron	22	0.2 PCT		Neutron Activation
5	Co Cobalt	22	5 PPM		Neutron Activation
6	Ni Nickel	22	20 PPM		Neutron Activation
7	Zn Zinc	22	100 PPM		Neutron Activation
8	As Arsenic	22	0.5 PPM		Neutron Activation
9	Se Selenium	22	5 PPM		Neutron Activation
10	Br Bromine	22	0.5 PPM		Neutron Activation
11	Rb Rubidium	22	5 PPM		Neutron Activation
12	Zr Zirconium	22	200 PPM		Neutron Activation
13	Mo Molybdenum	22	1 PPM		Neutron Activation
14	Ag Silver	22	2 PPM		Neutron Activation
15	Cd Cadmium	22	5 PPM		Neutron Activation
16	Sn Tin	22	100 PPM		Neutron Activation
17	Sb Antimony	22	0.1 PPM		Neutron Activation
18	Te Tellurium	22	10 PPM		Neutron Activation
19	Cs Cesium	22	0.5 PPM		Neutron Activation
20	Ba Barium	22	50 PPM		Neutron Activation
21	La Lanthanum	22	2 PPM		Neutron Activation
22	Ce Cerium	22	5 PPM		Neutron Activation
23	Sm Samarium	22	0.05 PPM		Neutron Activation
24	Eu Europium	22	1 PPM		Neutron Activation
25	Tb Terbium	22	0.5 PPM		Neutron Activation
26	Yb Ytterbium	22	2 PPM		Neutron Activation
27	Lu Lutetium	22	0.2 PPM		Neutron Activation
28	Hf Hafnium	22	1 PPM		Neutron Activation
29	Ta Tantalum	22	0.5 PPM		Neutron Activation
30	W Tungsten	22	1 PPM		Neutron Activation
31	Ir Iridium	22	50 PPM		Neutron Activation
32	Au Gold	22	2 PPM		Neutron Activation
33	Th Thorium	22	0.2 PPM		Neutron Activation
34	U Uranium	22	0.2 PPM		Neutron Activation
35	WT Test Weight	22	0.01 g		

Bondar-Clegg & Company Ltd.
5420 Canotek Road
Ottawa, Ontario
K1J 8X5
(613) 749-2220 Telex 053-3233



Geochemical
Lab Report

REPORT: 008-50709.0 (COMPLETE)

REFERENCE INFO: DOLLY VARDEN

CLIENT: GEOLOGICAL SURVEY OF CANADA
PROJECT: 23233-6-1332

SUBMITTED BY: S.B. BALLANTYNE
DATE PRINTED: 30-JUN-88

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
PREPARED PULP	22	AS RECEIVED	22	As Received, No SP	22

REMARKS: SAMPLE LCG-004 BA 11.0%.
< MEANS LESS THAN.
> MEANS GREATER THAN.

REPORT COPIES TO: MR. JOHN LYNCH
S.B. BALLANTYNE

INVOICE TO: MR. JOHN LYNCH
MR. AL TOREN

REPORT: 088-50709.0

PROJECT: 23233-6-1332

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Na PCT	Se PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Br PPM	Rb PPM	Zr PPM
LCG-001		1.10	12.0	<2	2.8	<5	<20	170	235.0	<15	6.1	98	<520
LCG-002		0.86	13.0	<20	4.9	14	<20	130	59.7	6	<2.0	150	<200
LCG-003		0.11	13.0	<20	4.4	13	<20	<100	16.0	<5	<2.0	140	<200
LCG-004		0.07	8.4	<49	3.3	8	<20	1000	30.0	<10	<2.0	100	<200
LCG-005		0.10	13.0	<20	5.2	8	<20	<100	31.0	<5	<2.0	150	<200
LCG-006		1.20	13.0	<20	6.4	12	<20	140	181.0	<5	<2.0	160	<200
LCG-007		0.17	4.9	<20	0.3	<5	<20	<100	14.0	<5	<2.0	110	<200
LCG-008		0.05	3.3	<20	2.1	<5	<20	<100	80.9	<5	<2.0	60	<200
LCG-009		1.70	10.0	<20	3.7	12	<20	<100	12.0	<5	<2.0	130	<200
LCG-010		3.24	8.2	<20	1.4	9	<20	<100	16.0	<5	<2.0	130	<200
LCG-011		1.80	14.0	<20	3.0	<5	<20	130	47.0	11	<2.0	170	<200
LCG-012		0.06	9.4	21	2.0	<5	<20	130	75.4	<5	<2.0	100	<200
LCG-013		0.07	7.5	<20	2.2	5	<20	<100	79.8	<5	<2.0	100	<200
LCG-014		2.07	36.0	75	7.3	39	29	130	16.0	<5	<2.0	79	<200
LCG-015		3.29	12.0	<20	6.7	14	<20	240	10.0	<5	<2.0	24	<200
LCG-016		1.50	12.0	<20	9.0	10	<20	200	25.0	<5	<2.0	100	<200
LCG-017		1.30	8.1	<20	2.9	6	<20	<100	57.4	<5	<2.0	99	<200
LCG-018		0.31	7.9	<20	5.8	10	<20	120	116.0	6	<2.0	130	<200
LCG-019		0.08	6.8	<20	15.0	11	<20	200	71.2	<5	<2.0	36	<200
LCG-020		2.57	11.0	<20	5.7	16	<20	200	25.0	<5	<2.0	130	<200
LCG-021		2.35	10.0	<20	4.4	14	<20	130	9.4	<5	<2.0	130	<200
LCG-022		2.18	8.6	<20	4.8	54	<20	110	36.0	12	<2.0	130	<200

REPORT: 088-50709.0

PROJECT: 23233-6-1332

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SAMPLE NUMBER	ELEMENT UNITS	Hg PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM	Cs PPM	Ba PPM	La PPM	Ce PPM	Sm PPM	Eu PPM
LCG-001		63	<4	<5	<390	247.0	<59	2.0	2300	20	<21	2.50	<2
LCG-002		9	<2	<5	<100	26.6	<22	4.9	2100	25	38	3.80	<1
LCG-003		3	<2	<5	<100	6.3	<10	7.2	2000	23	27	3.00	<1
LCG-004		4	<2	12	<100	11.8	<28	3.9	>90000	9	<19	1.20	<1
LCG-005		3	<2	<5	<100	6.7	<10	6.1	6900	28	39	4.10	1
LCG-006		5	<2	<5	<100	16.1	<22	2.9	3100	25	40	3.80	<1
LCG-007		4	<2	<5	<100	8.4	<10	6.6	1300	17	28	2.40	<1
LCG-008		3	<2	<5	<100	19.7	<10	1.5	3100	6	8	0.75	<1
LCG-009		3	<2	<5	<100	20.4	<10	9.2	2800	27	51	4.60	<1
LCG-010		3	<2	<5	<100	17.6	<10	3.5	3300	26	42	4.20	<1
LCG-011		16	<2	<5	<100	20.8	<10	3.6	4500	22	38	3.80	<1
LCG-012		4	3	<5	<100	22.9	<10	4.1	1600	6	17	0.93	<1
LCG-013		4	<2	<5	<100	22.8	<10	4.1	14900	23	30	3.00	1
LCG-014		<1	<2	<5	<100	2.4	<10	7.3	760	6	8	2.10	<1
LCG-015		1	<2	<5	<100	1.9	<10	0.8	550	21	36	3.10	<1
LCG-016		3	<2	<5	<100	12.8	<10	5.0	4400	25	37	4.50	<1
LCG-017		11	9	<5	<100	51.8	<25	3.2	9580	15	16	2.40	<1
LCG-018		7	3	<5	<100	15.4	<10	4.1	2000	15	31	2.70	<1
LCG-019		3	5	<5	<100	21.3	<10	2.1	360	26	37	4.50	<1
LCG-020		2	<2	<5	<100	12.0	<10	3.9	2800	10	11	2.60	<1
LCG-021		7	<2	<5	<100	9.1	<10	4.6	3100	20	33	3.70	<1
LCG-022		17	3	<5	<100	8.1	<10	4.4	3700	20	30	4.00	<1

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SAMPLE NUMBER	ELEMENT UNITS	Tb PPM	Yb PPM	Lu PPM	Hf PPM	Ta PPM	W PPM	Ir PPB	Au PPB	Th PPM	U PPM	WT %
LCG-001		0.6	<2	0.4	<3	<0.5	5	<50	472	4.7	2.1	6.46
LCG-002		0.6	<2	<0.2	<1	<0.5	<1	<50	94	6.2	2.6	5.30
LCG-003		0.5	<2	0.2	2	<0.5	2	<50	44	4.9	2.2	8.05
LCG-004		<0.5	<2	<0.2	1	<0.5	2	<50	55	2.8	0.9	6.84
LCG-005		<0.5	<2	0.2	2	<0.5	4	<50	110	4.5	2.2	6.99
LCG-006		<0.5	<2	0.4	3	0.8	3	<50	150	7.7	3.2	5.92
LCG-007		<0.5	<2	<0.2	1	<0.5	3	<50	19	4.0	1.5	7.32
LCG-008		<0.5	<2	<0.2	<1	<0.5	2	<50	464	2.1	0.8	7.61
LCG-009		0.5	<2	0.3	3	0.7	<1	<50	48	5.3	2.0	8.50
LCG-010		<0.5	<2	<0.2	3	0.7	10	<50	60	4.9	2.1	8.80
LCG-011		<0.5	2	0.3	2	<0.5	7	<50	110	4.9	1.9	5.08
LCG-012		<0.5	<2	<0.2	<1	<0.5	3	<50	28	3.0	1.3	5.50
LCG-013		<0.5	<2	<0.2	<1	<0.5	<1	<50	40	2.8	1.9	5.81
LCG-014		<0.5	<2	0.2	<1	0.6	3	<50	<2	1.0	0.6	7.78
LCG-015		<0.5	<2	<0.2	2	0.6	4	<50	<2	6.1	2.3	6.31
LCG-016		0.6	2	0.4	1	<0.5	5	<50	11	7.9	3.9	6.47
LCG-017		<0.5	<2	0.2	<1	0.6	7	<50	160	3.3	1.5	5.72
LCG-018		<0.5	<2	<0.2	2	<0.5	3	<50	252	4.9	2.3	6.22
LCG-019		<0.5	<2	0.3	<1	<0.5	2	<50	2460	4.4	2.0	7.84
LCG-020		<0.5	<2	<0.2	1	<0.5	3	<50	110	5.6	2.4	6.96
LCG-021		0.7	<2	0.2	2	<0.5	8	<50	140	5.6	2.8	8.07
LCG-022		0.9	3	0.4	2	<0.5	5	<50	120	5.0	2.5	6.77

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STANDARD NAME	ELEMENT UNITS	Na PCT	Sc PPM	Cr PPM	Fe PCT	Co PPM	Ni PPM	Zn PPM	As PPM	Se PPM	Br PPM	Rb PPM	Zr PPM
BCC SOIL PULP STD 89		1.00	7.7	58	2.3	10	20	280	9.4	<5	8.9	58	<200
		1.20	9.2	96	3.2	11	<20	180	11.0	<5	12.0	84	<200

Number of Analyses	2	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value	1.100	8.45	77.0	2.75	10.5	15.0	230.0	10.20	2.5	10.45	71.0	100.0	
Standard Deviation	0.1414	1.061	26.87	0.636	0.71	7.07	70.71	1.131	0.00	2.192	18.36	0.00	
Lowest Value	1.00	7.7	58	2.3	10	20	180	9.4	5	8.9	58	200	
Highest Value	1.20	9.2	96	3.2	11	20	280	11.0	5	12.0	84	200	

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STANDARD NAME	ELEMENT UNITS	Mo PPM	Ag PPM	Cd PPM	Sn PPM	Sb PPM	Te PPM	Cs PPM	Ba PPM	La PPM	Ce PPM	Sm PPM	Eu PPM
BCC SOIL PULP STD 88		2	<2	<5	<100	1.5	<10	3.1	350	20	42	3.70	<1
		1	<2	<5	<100	1.8	<10	3.3	430	25	46	5.00	<1

Number of Analyses		2	2	2	2	2	2	2	2	2	2	2	2
Mean Value		1.6	1.0	2.5	50.0	1.65	5.0	3.20	390.0	22.5	44.0	4.350	0.5
Standard Deviation		0.21	0.00	0.00	0.00	0.212	0.00	0.141	56.57	3.54	2.83	0.9192	0.00
Lowest Value		1	2	5	100	1.5	10	3.1	350	20	42	3.70	1
Highest Value		2	2	5	100	1.8	10	3.3	430	25	46	5.00	1

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STANDARD NAME	ELEMENT UNITS	Tb PPM	Yb PPM	Lu PPM	Hf PPM	Ta PPM	W PPM	Ir PPB	Au PPB	Th PPM	U PPM	WT g
BCC SOIL PULP STD 88		<0.5	<2	<0.2	7	0.9	1	<50	<2	6.5	1.9	3.44
		0.8	<2	<0.2	9	1.3	1	<50	<2	8.6	2.4	5.33

Number of Analyses	2	2	2	2	2	2	2	2	2	2	2	2
Mean Value	0.53	1.0	0.10	8.0	1.08	1.2	25.0	1.0	7.55	2.15	4.385	
Standard Deviation	0.389	0.00	0.000	1.63	0.318	0.07	0.00	0.00	1.485	0.354	1.3364	
Lowest Value	0.5	2	0.2	7	0.9	1	50	2	6.5	1.9	3.44	
Highest Value	0.8	2	0.2	9	1.3	1	50	2	8.6	2.4	5.33	

3ruce
FILE NAME : BALLANTYNE.S.B.
DOLLY VARDEN
066-88

ELEMENT REPORT OF COMPLETED ANALYSIS

FILE NUMBER : 06688

DATE : 1 Mar 1989
PAGE : 1
SET : 1 OF 1

SAMPLE NAME	E - M - A	E - M - A	E - M - A	E - M - A	E - M - A
	F	CL	S-TOTAL	BI	SE
	DIONEX1	DIONEX1	DIONEX1	AA-SILICA	AA-SILICA
	PYROHYDROL	PYROHYDROL	PYROHYDROL	AR-LA(OH)3	AR-LA(OH)3
	PPM	PPM	PPM	PPM	PPM
	50	100	50	.5	.5
LGC-001	624.	< 100.	7794.	2.1	2.4
LGC-002	887.	< 100.	59695.	< .5	6.8
LGC-003	2045.	< 100.	46041.	1.8	3.8
LGC-004	1438.	< 100.	57113.	0.8	3.4
LGC-005	1228.	< 100.	58223.	1.1	1.4
LGC-006	659.	< 100.	59136.	< .5	1.6
LGC-007	576.	< 100.	214.	< .5	< .5
LGC-008	272.	< 100.	16506.	0.7	1.0
LGC-009	1068.	< 100.	31888.	0.8	2.2
LGC-010	483.	< 100.	11472.	< .5	3.6
LGC-011	1097.	< 100.	5987.	0.5	4.9
LGC-012	616.	< 100.	10552.	1.3	0.8
LGC-013	577.	< 100.	13648.	< .5	< .5
LGC-014	1121.	128.	328.	< .5	< .5
LGC-015	490.	129.	361.	< .5	< .5
LGC-016	574.	< 100.	18387.	< .5	< .5
LGC-017	592.	< 100.	12347.	< .5	2.9
LGC-018	782.	< 100.	59629.	2.9	3.9
LGC-019	501.	< 100.	69654.	12.2	3.7
LGC-020	846.	< 100.	51634.	0.5	3.6
LGC-021	1076.	< 100.	11658.	< .5	2.5
LGC-022	513.	< 100.	59796.	0.7	6.8