FILMED

APPENDIX A

ITEMIZED COST STATEMENT

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,205

Part 2 of 2

A. ITEMIZED COST STATEMENT

A.1 Supervision and Wages

The personnel used, number od days worked and daily rates were as follows:

Phase 1 (Exploration) From August 1st to August 14, 1987

Personnel	Title	Daily Rate	Days Worked	Cost
E. Horne	Senior Geologist	$250.00	11	2,750.00
K. Konkin	Senior Geologist	$150.00	14	2,100.00
G. Sinden	Technician/Prospector	$120.00	14	1,680.00
S. Stannus	Technician/Prospector	$125.00	14	1,750.00
D. Lund	Assistant	$ 80.00	14	1,120.00
E. Kruchkowski	Chief Geologist	$300.00	2	600.00

Phase 2 (Drilling) From September 19th to November 1st, 1987

E.Kruchkowski	Chief Geologist	$300.00	1	300.00
E. Horne	Senior Geologist	$250.00	44	11,000.00
K. Konkin	Senior Geologist	$150.00	1	150.00
R. Wares	Senior Geologist	$320.00	1	320.00
D. Sloan	Faller	$120.00	3	360.00
B. Almand	Labourer/Falling	$ 80.00	6	480.00
L. Lepine	Labourer/Core Splitter	$ 80.00	20	1,600.00
C. Hoffman	Labourer	$ 50.00	3	150.00
B. Johansson	Labourer/Faller	$100.00	3	300.00
D. Cambon	Labourer	$ 80.00	4	320.00
J. Helton	Labourer	$100.00	2	200.00
G. Radelta	Labourer	$ 80.00	1	80.00
				25,260.00
	10% Consulting Overhead			2,526.00
	TOTAL			$27,786.00

A.2 Transportation & Supplies

Calgary-Stewart and return airfare (E. Horne)	677.93
Camp Rental, 69 mandays @ $25.00/day/man(exploration)	1,725.00
Generator Rental, @ $10.00/day, 14 days exploration	140.00
Generator Rental @ $10.00/day, 24 days drilling	240.00
Camp Rental, 64 days @ $25.00/day/man (Drilling) (L. Lepine & E. Horne only)	1,600.00
Building Supplies (Lumber for Drill Program)	401.00
Radio Rental and Repairs	177.00
Cobra Drill Rental, 14 days @ $50.00/day	700.00
Explosives	577.91
TOTAL	6,238.84

A.3 Consumables

Groceries Exploration Phase	1,089.79
Groceries Drilling Phase	881.39
Fuel for drill and camp (includes some expediting)	3,064.29
Sample bags & tags	72.35
TOTAL	5,107.82

A.4 Helicopter Rental

Phase 1 (Exploration)

Date	Hours	Purpose	/Hr. Rate Fueled	Cost
August 1st	3.7	Camp & Crew Mobilization	491.50(206)	1,818.55
August 12th	1.8	Groceries & supplies	491.50(206)	884.20
	TOTAL			2,703.25

Phase 2 (Drilling)

September 19	1.5	Drill Pad Preparation	491.50	763.13
September 20	1.1	Drill Pad Preparation	491.50	559.63
September 22	0.3	Drill Pad Preparation	491.50	147.45
September 25	0.4	Drill Pad Preparation	491.50	229.80
September 26	0.4	Drill Pad Preparation	491.50	229.80
September 28	0.6	Camp Preparation	491.50	344.70
October 2	0.7	Camp Preparation	574.50	402.15
October 8	4.1	Mobilization of rig	574.50	2,355.45
October 9	3.2	Mobilization fuel & camp	418.25	1,338.40
October 10	0.4	Fuel for drill	1,252.50(204)	501.00
October 10	1.4	Mobilization fuel & Camp	574.50	804.30
October 11	0.8	Supplies & Crew	574.50	459.60
October 12	0.8	Supplies & Crew	574.50	459.60
October 16	0.9	Supplies	491.50	442.35
October 18	0.6	Supplies	491.50	344.70
October 19	1.4	Fuel & Supplies	816.00(204,206)	1,143.30
October 20	1.3	Fly out samples	1,043.90(", ")	1,357.05
October 21	1.6	Fuel & Groceries	574.50	919.20
October 22	0.8	Fly out relieved equip't	943.50(204,206)	754.80
October 23	0.4	Samples	491.50	229.80
October 25	0.4	Samples	491.50	229.80
October 27	1.2	Samples	491.50	589.80
October 29	5.7	Demobilization Rig	1,038.40(", ")	5,918.85
October 30	0.4	Personnel	491.50	196.60
November 1	5.4	Demobilization Camp	574.50	3,102.30
	TOTAL			23,823.56

A.5 Laboratory Analyses

Phase 1 (Exploration)

182	Soil Samples for gold & silver @ $69.55/sample	1,738.10
75	Rock Samples for gold & silver @ $10.75/sample	806.25
29	Assays for gold and silver @ $10.50/sample	304.50
13	Gold Assays @ $7.50/sample	97.50
8	Silver Assays @ $7.50/sample	60.00
1	Arsenic Sample @ $4.00/sample	4.00
5	Copper, lead, zinc @ $17.00/sample	85.00
10	Silt samples for gold & silver @ $11.25/sample	112.50
	TOTAL	3,307.85

Phase II (Drilling)

88	Assays for gold & silver @ $13.75/sample	1,210.00
275	Rock geochemical samples for gold & silver @ $10.75/sample	2,956.25
2	Gold Assays @ $7.50	15.00
2	Platinum geochemical analyses @ $13.00	26.00
35	Copper Analyses @ $5.00	175.00
32	Lead Assays @ $6.00	192.00
32	Zinc Assays @ $6.00	192.00
2	Antimony, barium @ $18.75	37.50
6	Elemental geochemical analyses @ $10.00 (30 element inductively coupled plasma)	60.00
Freight		350.00
	TOTAL	5,213.75

A.6 Drilling Cost

Drilling Cost, 1936 feet @ $21.50/foot			41,623.50
Reaming	126 feet @ $22.00/foot	2,755. 12	2,755.53
Mobilization/Demobilization (Labour)			4,688.00
Rig Moves (Labour)			1,190.97
Mud, Additives & Lubricants			1,479.40
Camp crew bonus - $50.00/day/man (23 days, 4 men)			4,600.00
Core boxes			857.80
Work on water supply			198.40
TOTAL - Overall Cost/Foot = $29.65 Exclusve of camp, helicopter, camp accommodation and sustenance. Cost does not include fuel.			57,393.60

A.7 Report Preparation

Base maps mylar, prints	250.00
Drafting	450.00
Typing/Printing	200.00
Reprot Compilation and writing	
1 geologist, 15 days @ $250.00/day	3,750.00
TOTAL	4,650.00
GRAND TOTAL	136,224.67

Say $136,000.00

To Be Apportioned As Follows:

2 Years, Lots 265 - 269 @ $100.00/Unit	1,000.00
3 Years, Lots 265 - 269 @ $200.00/Unit	3,000.00
2 Years, Corey 8 @ $100.00/Unit	4,000.00
3 Years, Corey 8 @ $200.00/Unit	12,000.00
3 Years, Corey 28 @ $100.00/Unit	4,800.00
2 Years, Corey 28 @ $200.00/Unit	6,400.00
3 Years, Corey 31 @ $100.00/Unit	4,800.00
2 Years, Corey 31 @ $200.00/Unit	6,400.00
3 Years, Corey 32 @ $100.00/Unit	6,000.00
2 Years, Corey 32 @ $200.00/Unit	8,000.00
3 Years, Corey 35 @ $100.00/Unit	6,000.00
2 Years, Corey 35 @ $200.00/Unit	8,000.00
	$ 70,400.00

APPENDIX B

ROCK AND SOIL

CERTIFICATES OF ASSAY

AND GEOCHEMICAL ANALYSIS

RECEIVED SEP 2 4 1987

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30343
Date September 22, 1987
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu	% Pb	% Zn
	Crown Grant L-265 Upper Adit re-sampling of mineralized section, see figure 7				
"Assay Analysis"					
19467	.422	4.58	.73	6.31	23.35
19468	.398	16.58	.54	3.52	28.39
19469	.350	7.79	.34	3.58	5.70
19470	.180	7.38	1.42	10.73	14.61

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORPORATION
400, 255 - 17th Avenue S.W.
Calgary, Alberta - T2S 2T8
Attn: Mr. Ed. Kruchkowski

File No. 29982
Date July 9th,1987
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.		Au ppb	Ag ppm
GEOCHEMICAL ANALYSES			
18001	EK-1	+1000	+ 30
18002	EK-2	+1000	+ 30
18003	CGR-01	830	24.3
18004	CGR-02	270	5.3
18005	CGR-03	30	2.1
18006	CGR-04	10	5.4
18007	CGR-07	25	+ 30
18008	C39-GR-1	10	+ 30
18009	C38-GR-2	Nil	20.0
18010	C38-GR-3	5	2.8
18011	CR-36-1	15	3.1
18012	CR-36-2	20	1.6
18013	CR-36-3	10	1.2
18014	SR2-01	15	4.9
18015	SR2-02	15	6.1
18016	SR2-03	30	2.1
18017	SR2-04	35	16.3
18018	SR2-05	25	.9
18019	SR2-06	20	.5

OTHER

STAN

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Grelup

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: E. Horne

File No. 30061
Date July 31, 1987
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SILVER CREEK SOILS GRID

SAMPLE No.		PPB Au	HORIZON	DEPTH
"Soil Samples"				
Geochemical Analysis	SOIL TYPE			
LO + OON-O + OO E	Black Organic	30	B	+20 cm
5 E		10		
10 E		5		
15 E	Light brown	45		
20 E	Dark brown	10		
25 E		40		
30 E		25		
CG-13	Silt	5		

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: E. Horne

File No. 30061
Date July 31, 1987
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SILVER CREEK SOILS GRID

SAMPLE No.	PPM Ag			
"Soil Samples" Geochemical Analysis	SOIL TYPE		HORIZON	DEPTH
LO + OON-0 + OO E	Black Organic	NIL	B	25 cm
5 E		.8		
10 E		.4		
15 E	Light Brown	.2		
20 E	Dark Brown	.1		
25 E		.1		
30 E		.1		
CG-13	Silt	.1		

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30101
Date August 18, 1987
Samples Soil & Silt

Certificate of ASSAY

LORING LABORATORIES LTD.

CUMBERLAND SHOWING

SAMPLE No.	OZ./TON GOLD		OZ./TON SILVER
"Soil Samples"			
"Assays"			
0+00-0+05W	.140	Soil Geochem.	-
T-1	.101	In vicinity of upper adit	-
T-2	.042	T1, T2, T3 are immediately above upper adit	-
"Silt Sample"			
C-G-12	-	Devils Club Creek	1.67

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

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Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30101
Date August 18, 1987
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM As
"Soil Samples" Geochemical Analysis	
0+00 0+05W	22
T-1	16
T-2	6

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

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Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30101
Date August 18, 1987
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

CUMBERLAND SOILS GRID

SAMPLE No.	PPB Au	SOIL TYPE	HORIZON	DEPTH	PPM Ag
"Soil Samples" Geochemical Analysis					
BL-S-0+00	645	Grey leached	C	+25 cm	0.2
0+05	75				0.1
0+10	305				ISS
0+15	85				NIL
0+20	70				NIL
0+25	20				0.2
0+30	35				NIL
0+35	20				ISS
0+40	55				0.5
0+45	NIL				NIL
0+50	15				0.1
0+55	30				0.1
0+60	15				0.1
0+65	55				NIL
0+70	45				NIL
0+75	50				ISS
0+80	45				NIL
0+85	45				0.1
0+90	15				0.1
0+95	10				0.1
1+00	30				0.1
1+05	25				0.1
1+10	15				0.2
1+15	5				0.2
1+20	NIL				0.2
1+25	NIL				ISS
1+30	5				0.1
1+35	5				0.3

(ISS) = Insufficient Sample

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Myder

File No. 30101
Date August 18, 1987
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

CUMBERLAND SOILS GRID

SAMPLE No.	PPB Au	SOIL TYPE	HORIZON	DEPTH	PPM Ag
BL-S-1+40	20	Grey leached	C	25 cm	0.3
1+45	15				0.1
1+50	10				0.1
2+00	NIL				0.1
2+25	NIL				0.1
2+50	20				0.2
2+75	NIL				1.6
3+00	NIL				5.3
0+00-0+5[illegible]	+1000	Grey leached	C	+ 25 cm	1.4
0+10[illegible]	15				NIL
0+15[illegible]	75				NIL
0+20[illegible]	5				NIL
0+25[illegible]	10				NIL
0+30[illegible]	35				NIL
0+35[illegible]	NIL				0.3
0+40[illegible]	NIL				NIL
0+45[illegible]	10				0.1
0+50[illegible]	10				NIL
0+00-0+05[illegible]	150				0.9
0+10[illegible]	470				NIL
0+25S-0+0[illegible]	15				NIL
0+1[illegible]	20				NIL
0+2[illegible]	10				NIL
0+2[illegible]	15				NIL
0+3[illegible]	NIL				NIL
0+3[illegible]	25				NIL
0+4[illegible]	40				0.3
0+4[illegible]	10				NIL
0+5[illegible]	20				NIL
0+25S-0+0[illegible]	5	Black Humus	A	20 cm	NIL
0+1[illegible]	10				NIL

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained [illegible] month.
Pulps Retained [illegible] month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30101
Date August 18, 1987
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

Cumberland Soils Grid

SAMPLE No.	PPB Au	SOIL TYPE	HORIZON	DEPTH	PPM Ag
0+25S-0+15E	NIL	Black Humus	A	20 cm	ISS
0+20E	5				ISS
0+25E	5				ISS
0+30E	NIL				NIL
0+35E	NIL			10 cm	0.5
0+40E	40			20 cm	NIL
0+45E	15				NIL
0+50E	NIL				0.5
0+50S-0+05W	15	Organic soil	B	20 cm	0.1
0+10W	10	Grey leached	C		0.1
0+15W	45				NIL
0+20W	70				NIL
0+25W	5			25 cm	NIL
0+30W	10			30 cm	NIL
0+35W	5				NIL
0+40W	20				NIL
0+45W	NIL				NIL
0+50W	5				NIL
0+50S-0+05E	NIL				NIL
0+10E	5				0.2
0+15E	50				0.1
0+20E	10				0.1
0+25E	5				NIL
0+30E	NIL				NIL
0+35E	10				NIL
0+40E	5				NIL
0+45E	NIL				NIL
0+50E	NIL				NIL
0+75S-0+05W	45	Black organic	B	20 cm	NIL
0+10W	5				NIL
0+15W	NIL				NIL

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30101
Date August 18, 1987
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

CUMBERLAND SOILS GRID

SAMPLE No.	PPB Au	SOIL TYPE	HORIZON	DEPTH	PPM Ag
0+75S-0+20W	10	Grey leached	C	25 cm	NIL
0+25W	NIL				NIL
0+30W	15				NIL
0+35W	NIL				NIL
0+40W	NIL				NIL
0+45W	5				NIL
0+50W	NIL				NIL
0+75S-0+05E	5	Black Organic	B	20 cm	NIL
0+10E	40				0.2
0+15E	NIL				0.1
0+20E	835				0.5
0+25E	NIL				0.9
0+30E	NIL				0.1
0+35E	NIL				0.1
1+00S-0+05W	NIL				0.1
0+10W	30	Grey leached	C	30 cm	0.2
0+15W	15				0.1
0+20W	15				0.1
0+25W	5				7.7
0+30W	5				0.1
0+35W	NIL				0.1
0+40W	NIL				8.2
0+45W	15				0.1
0+50W	30				0.1
1+00S-0+05E	5	Black Organic	B	25 cm	0.4
0+10E	10	Grey leached	C	20 cm	0.3
0+15E	5				0.4
0+20E	15	Brown	B	25 cm	0.9
0+25E	5		B	35 cm	1.2
0+30E	NIL	Grey leached		25 cm	NIL
0+35E	10				1.1

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

5th & 7th July

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30101
Date August 18, 1987
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

CUMBERLAND SOILS GRID

SAMPLE No.	PPB Au	SOIL TYPE	HORIZON	DEPTH	PPM Ag
1+00S-0+40E	NIL	Grey leached	C	+25 cm	NIL
0+45E	NIL				NIL
1+50S-0+10W	NIL				NIL
0+20W	10				0.4
0+30W	15				NIL
0+40W	5				0.2
0+50W	NIL				0.1
1+50S-0+10E	NIL				0.4
0+20E	NIL				NIL
0+30E	5				0.1
0+40E	5				NIL
0+50E	30				NIL
2+00S-0+10W	5				NIL
0+20W	20				NIL
0+30W	25				0.3
0+40W	NIL				NIL
0+50W	10				NIL
2+00S-0+10E	NIL				NIL
0+20E	15				6.8
0+30E	NIL				3.3
0+40E	NIL				0.1
0+50E	10				1.7
2+20S-0+25E	5				NIL
2+50S-0+10W	NIL				0.4
0+20W	5				0.1
0+30W	5				0.6
0+40W	5				0.1
0+50W	5				0.2
2+50S-0+30E	NIL				0.1
0+40E	5				0.1
0+50E	5				1.2

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30101
Date August 18, 1987
Samples Soil

Certificate of ASSAY

LORING LABORATORIES LTD.

CUMBERLAND SOILS GRID

SAMPLE No.	PPB Au	SOIL TYPE	HORIZON	DEPTH	PPM Ag
2+75S-0+10W	10	Grey leached	C	+25 cm	0.8
0+20W	NIL				0.1
0+30W	5				0.6
0+40W	NIL				0.9
0+50W	NIL				1.2
2+75S-0+10E	NIL				0.3
0+20E	NIL				NIL
0+30E	10				0.6
0+40E	5				1.0
0+50E	20				1.8
3+00S-0+10W	10				0.6
0+20W	5				0.1
0+30W	NIL				0.1
0+40W	NIL				1.0
0+50W	NIL				0.7
3+00S-0+10E	NIL				0.3
0+20E	20				0.8
0+40E	55				0.7
0+50E	5				1.7
T-1	+1000				ISS
T-2	+1000	Soils test above upper adit			ISS
T-3	565				2.4
CGS-265-04	20	Rusty soil Devils Club Creek			NIL

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8
ATTN: Jack Wyder
cc: E. Kruchkowski

File No. 30224
Date September 3, 1987
Samples Silt

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au		PPM Ag
DL- 12	15		NIL
13	10		NIL
14	225		NIL
15	5		NIL
16	NIL		0.1
20	15		0.2
21	5		0.2
22	10		0.2
23	5		0.2
24	10		0.1
25	15		0.7
26	15		0.2
27	10		0.2
28	25		0.2
29	5		0.2
CG-101	15	Top of Devils Club Creek	4.3
BJS- 1	NIL		0.2
2	5		0.1
3	15		0.1
4	35		0.1
5	10		0.1

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30100
Date August 18, 1987
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au			PPM Ag
"Rock Samples" Geochemical Analysis				
18088	NIL			NIL
18089	5			NIL
18090	+1000	-	Chip 50 cm	5.4
18091	+1000	Trench directly	Chip 50 cm	7.3
18092	+1000	Above lower adit	Chip 50 cm	12.0
18093	+1000		Chip 100 cm	7.5
18094	+1000		Chip 100 cm	8.3
18095	610	-		12.8
18096	150	Lower adit cliff face		3.2
18097	105	Above adit		1.1
18098	60	-		1.8
18099	315	Inside upper adit	Chip 20 cm	30.0+
18100	925		Chip 30 cm	30.0+
9580	+1000		Chip 20 cm	14.4
9581	+1000	Lower adit	-	30.0+
9582	930			11.7
9583	870			10.9
9585	15			0.1
9586	NIL	- Cumberland Grid		0.1
9587	5	- Cumberland Grid		0.2
9588	5			0.9
9589	NIL	Vicinity lower adit		0.4
9590	90			6.3
9591	5			0.2
9592	NIL			NIL
9593	15			0.4
9594	5	Cumberland Grid		1.1
9595	NIL			0.3

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30100
Date August 18, 1987
Samples Rock

RECEIVED AUG 19 1987

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD		OZ./TON SILVER
"Rock Samples" "Assays"			
18090	.034		-
18091	.116		-
18092	.048		-
18093	.032		-
18094	.036		-
9580	.030	Cumberland Lower Adit	1.01
9581	.032		3.05
9602	.052		2.55
9603	.090		-
9613	.034		1.98
18099	-		8.02
18100	-		5.86
9604	-	Cumberland Showing below 2nd adit (float) massive sphalerite sulphides	

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORPORATION
400, 255 - 17th Avenue S.W.
Calgary, Alberta - T2S 2T8
Attention: Mr. E. Horne

File No. 30025
Date July 16th, 1987
Samples Rocks, Silts, Soils as identified below

Certificate of ASSAY

LORING LABORATORIES LTD.

CUMBERLAND ADIT AREA

SAMPLE No.	Au ppb	Ag ppm	
GEOCHEMICAL ANALYSES			
Rocks			
18076	+1000	+30	
18077	+1000	+30	
18078	+1000	+30	Upper Adit
18079	+1000	+30	
18080	+1000	+30	
18081	5	.9	
18082	25	+30	
18083	5	+30	Devils Club Creek
18084	25	3.1	
18085	25	+30	
18086	20	+30	
18087	Nil	16.2	
Silts			Devils Club Creek
CG-09	Nil	+30	
CG-10	Nil	+30	
Soils			
CGS-02	15	.8	
CGS-03	10	.2	

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

D Mountain Mosley

To: BIG HORN DEVELOPMENT CORPORATION
400, 255 - 17th Avenue S.W.
Calgary, Alberta - T2S 2T8
Attention: Mr. E. Horne

File No. 30025
Date July 16th, 1987
Samples Rocks & Silts as identified below

Certificate of ASSAY

LORING LABORATORIES LTD.

Cumberland Adit

SAMPLE No.		Cm	Au oz/ton	Ag oz/ton	Cu %	Pb %	Zn %	
ASSAYS								
Rocks								
18076	Chip	50 cm	.118	8.62	.58	3.01	9.03	
18077	Chip	50 cm	.054	9.77	-	-	-	
18078	Chip	40 cm	.804	5.70	.32	11.40	12.22	Upper Adit
18079	Chip	100 cm	.036	1.09	.29	.18	2.83	
18080	Grab	-	.044	4.84	.39	10.80	22.20	
18082	Grab		-	10.18	-	-	.43	
18083	Grab		-	29.66	-	-	.45	Devils Club
18085	Grab		-	50.46	-	-	-	Creek
18086	Grab		-	53.54	-	-	-	
18087	Grab		-	-	-	.10	.19	
	Grab							
Silts								
CG-09			-	1.17		Devils Club Creek		
CG-10			-	1.38				

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: E. Horne

File No. 30061
Date July 31, 1987
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.		PPB Au	
"Rock Samples" Geochemical Analysis			
9584	Silver Creek	NIL	float
9599	Silver Creek	45	chip 10 cm
9600	Silver Creek vicinity	NIL	chip 1.0 metres dacite porphyry

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: E. Horne

File No. 30061
Date July 31, 1987
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPM Ag
"Rock Samples"	Silver Creek
9584	30.0 +
9599	30.0 +
9600	3.6

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

Mountain Range Project

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: E. Horne

File No. 30061
Date July 31, 1987
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON SILVER	
"Rock Samples"		
"Assays"	Silver Creek	
9584	1.68	Float
9599	133.58	10 cm carbonate vein

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30100
Date August 18, 1987
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au		PPM Ag
9596	NIL		0.2
9597	435		5.9
9598	65		0.9
9601	30		11.0
9602	+1000		30.0+
9603	+1000		30.0+
9604	695		30.0+
9605	50	Cumberland Grid	3.1
9610	510		16.4
9611	195		2.5
9612	280		5.9
9613	+1000		13.2
9614	115		NIL
KKCG-265-10	NIL		NIL
11	NIL		NIL
12	20	Cumberland Trenches	0.8
13	NIL		1.1
14	NIL		NIL
15	NIL		NIL
16	5		NIL

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8
ATTN: Jack Wyder
cc: E. Kruchkowski

File No. 30232
Date September 3, 1987
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD		OZ./TON SILVER
"Assay Analysis"			
"Rock Samples"			
19428	.290		2.13
19429	1.690		2.53
19437	-		169.38
19438	-		2.22
19439	-		346.40
19440	-	Devils Club Creek Showing	4.26
19441	-		49.24
19442	-		160.92
19443	-		3.62
19445	-		1.80
19446	.172		2.33
19450	1.248		4.22
19453	.328		1.79
19454	.058		-
KK- 88	1.490		2.65
KK- 89	.180		-
KK-127	.394		5.87
KK-128	.032		-
KK-129	.124		15.20

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30101
Date August 18, 1987
Samples Silt

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au	PPM Ag
"Silt Samples" Geochemical Analysis		
CG-11	75	0.3
CG-12	NIL	30.0+

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORPORATION
#400, 255 - 17th Avenue S.W.
Calgary, Alberta - T2S 2T8
Attn: Mr. Ed Kruchkowski

File No. 29982
Date July 9th, 1987
Samples Silt

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	Au ppb	Ag ppm	
GEOCHEMICAL ANALYSES			
CG-01	25	+ 30	
CG-02	15	+ 30	
CGS-03 (SOIL)	20	2.0	
CG-04	15	.6	CROWN GRANTS
CG-05	105	.9	
CG-06	50	.6	
CG-07	30	.7	
CG-08	25	6.2	
C-36-1	85	.5	
C-38-GS-2	90	.6	
C-38-GS-3	130	.5	
C-38-GS-4	50	.3	
C-39-GS-1	+1000	1.5	OTHER
S2-1	35	2.0	
S2-2	Nil	1.0	
S2-3	Nil	.6	
S3-01	Nil	.6	
S3-02	Nil	.4	
S3-03	Nil	.3	

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

D. Enders

Assayer

To: BIG HORN DEVELOPMENT CORPORATION
400, 255 - 17th Avenue S.W.
Calgary, Alberta - T2S 2T8
Attn: Mr. Ed. Kruchkowski

File No. 29982
Date July 9th,1987
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.		Au ppb	Ag ppm	
GEOCHEMICAL ANALYSES				
18001	EK-1	+1000	+ 30	
18002	EK-2	+1000	+ 30	
18003	CGR-01	830	24.3	
18004	CGR-02	270	5.3	CROWN GRANTS
18005	CGR-03	30	2.1	
18006	CGR-04	10	5.4	
18007	CGR-07	25	+ 30	
18008		10	+ 30	
18009		Nil	20.0	
18010		5	2.8	
18011		15	3.1	OTHER
18012		20	1.6	
18013		10	1.2	
18014		15	4.9	
18015		15	6.1	
18016		30	2.1	
18017		35	16.3	
18018		25	.9	
18019		20	.5	

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

D. Swelup
Assayer

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

To: BIG HORN DEVELOPMENT CORPORATION
400, 255 - 17th Avenue S.W.
Calgary, Alberta - T2S 2T8
Attn: Mr. Ed. Kruchkowski

File No. 29982
Date July 9th, 1987
Samples Rock & Silt

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	Au oz/ton	Ag oz/ton	
ASSAYS			
Rocks			
18001 EK-1	.126	4.94	
18002 EK-2	.064	9.79	
18007 CGR-07	-	102.15	CROWN GRANTS
18008	-	1.58	OTHER
SILT			
CG-01	-	1.78	CROWN GRANTS
CG-02	-	2.47	CROWN GRANTS
C-39-GS-1	.038	-	OTHER
T-7-04	.106	-	OTHER

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Enkov

Assayer

APPENDIX C

DRILL HOLE CERTIFICATES

OF ANALYSES & ASSAY

To: ...G. HORN DEVELOPMENT CORP.,
400 ...55 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30586
Date November 9, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu	% Pb	% Zn	% Sb	% Ba
BH-1							
30417	.003	.08	-	-	-	-	-
30418	.043	9.60	.40	1.31	7.41	.02	41.33
30419	.353	2.97	.23	3.62	6.08	.02	46.02
30420	.034	2.56	.49	.68	3.59	-	-
30421	.016	.96	.17	-	-	-	-
30422	.034	.88	.01	.06	.24	-	-
Zone # 2							
30440	.015	.44	Trace	-	-	-	-
30441	.002	.01	Trace	-	-	-	-
30442	.024	.87	.01	-	-	-	-
30443	.004	.06	Trace	-	-	-	-
30444	.005	Trace	Trace	-	-	-	-
BH-2							
30621	.002	Trace	-	-	-	-	-
30622	.004	Trace	-	-	-	-	-
30623	.004	.05	-	-	-	-	-
30624	.034	.38	-	.04	.19	-	-
30425	.035	.30	-	-	-	-	-

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
40 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30586
Date November 9, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu	% Pb	% Zn	% Sb	% Ba
BH-2 Cont'd							
✓ 30426	.033	.54	-	.04	.08	-	-

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: J. Wyder

File No. 30650
Date November 30, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu
BH-6 Cont'd			
30558	.005	.27	-
30559	.006	.03	-
30560	.002	Trace	-
BH-2			
30629	.004	.07	-
30630	.002	.04	-
30638	.001	.02	-

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Ridley

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30614
Date November 9, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER
"Core Samples" "Assay Analysis"		
✓ 30407	.004	.02
30408	.005	.04
30409	.002	.04
30410	.003	.07
30411	.001	.02
30412	Trace	Trace
30413	.001	Trace
30428	.002	.05
30430	.001	.02
30431	.002	.04
30432	.004	.01
30433	.001	.03
30434	.001	.03
30435	.002	.06
30436	.006	.16
30437	.002	.16
30438	.013	.83
30439	.006	.07
30445	.006	.09

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30614
Date November 9, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER
✓ 30446	.002	.06
30447	.001	.07
30448	Trace	.09
30449	.005	.08
30450	.004	.07
30451	.003	.08

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
4CO, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: J. Wyder

File No. 30650
Date November 30, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Cu
"Assay Analysis"			
√ BH-6			
30518	.007	.31	-
30519	.034	.85	-
30520	.028	1.18	-
30521	.005	.11	-
30522	.004	.18	-
30523	.004	.20	-
30524	.002	.07	.01
30525	.007	.20	-
30526	.009	.25	-
30527	.005	.10	-
30528	.006	.20	-
30529	.010	.47	-
30530	.006	.07	-
30531	.006	.06	-
30532	.015	.59	.01
30533	.013	.38	-
30534	.005	.08	-
30535	.006	.10	-
30536	.003	.05	-

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Enkel

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: J. Wyder

File No. 30650
Date November 30, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No. BH-6 Cont'd	OZ./TON GOLD	OZ./TON SILVER	% Cu
30537	.007	.22	-
30538	.009	.21	-
30539	.036	.92	-
30540	.006	.52	-
30541	.002	.01	-
30542	.002	.03	-
30543	Trace	.04	-
30544	.002	.01	-
30545	Trace	.01	-
30546	.002	.03	-
30547	.002	.22	-
30548	.004	Trace	-
30549	.001	.01	-
30550	.002	.02	-
30551	.002	.03	-
30552	Trace	.12	-
30553	.001	Trace	-
30554	.001	Trace	-
30555	.001	.07	-
30556	.003	.03	-
30557	.002	.03	-

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30716
Date December 18, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD
V	
"Core Sample" "Assay Analysis"	
BH-1-30476	.152

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

D Eades

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: J. Wyder

File No. 30650
Date November 30, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au	PPM Ag
"Core Samples"		
"Assay Analysis"		
BH-6-30561	NIL	0.3
30562	NIL	0.2
30563	NIL	0.1
30564	15	0.1
BH-2-30641	15	0.1
30642	NIL	0.1
30643	15	NIL
30644	NIL	NIL
30645	5	NIL
30647	NIL	0.1
30648	NIL	0.1
30649	NIL	NIL
30652	NIL	NIL

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

D. Loring
Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30716
Date December 18, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

Page # 6

SAMPLE No.	PPB Au	PPM Ag
BH-2-30646	5	NIL
30659	20	NIL
30660	5	0.1
30663	NIL	NIL
30664	5	NIL
30668	NIL	0.1
30669	NIL	NIL
30673	NIL	NIL
BH-1-30414	NIL	0.1
30415	NIL	0.4
30416	NIL	0.5
30423	190	7.8
30424	220	3.5
30425	265	4.9
30426	85	2.3
30427	35	1.6
30429	10	0.6
30456	+1000	0.5
30459	NIL	0.1
30460	315	0.1

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Sobb

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30716
Date December 18, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au	PPM Ag
"Core Samples" Geochemical Analysis		
BH-5-25976	NIL	0.5
25977	NIL	0.2
25978	NIL	0.3
25979	NIL	0.3
25980	NIL	0.6
25981	NIL	0.6
25982	NIL	0.3
25983	15	0.3
25984	NIL	0.2
25985	NIL	0.3
25986	NIL	0.1
25987	NIL	0.1
25988	NIL	0.3
25989	NIL	0.1
25990	NIL	0.2
25991	NIL	NIL
25992	NIL	0.2
25993	NIL	0.4
25994	NIL	0.2
25995	NIL	NIL
25996	NIL	NIL
25997	NIL	0.2
25998	NIL	0.1
25999	NIL	0.1
26000	NIL	0.2
30576	NIL	NIL
30577	NIL	0.1
30578	NIL	0.3

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30716
Date December 18, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au	PPM Ag
BH-5-30579	95	0.1
30580	NIL	0.1
30581	NIL	NIL
30582	NIL	NIL
BH-4-30226	NIL	0.2
30227	50	0.3
30228	NIL	0.1
30229	NIL	0.2
30230	NIL	0.3
30231	NIL	0.1
30232	140	0.2
30233	NIL	0.2
30234	NIL	0.2
30235	NIL	0.1
30236	NIL	0.2
30237	NIL	0.1
30238	NIL	0.3
30239	NIL	NIL
30240	NIL	NIL
30241	NIL	0.1
30242	NIL	0.2
30243	NIL	NIL
30244	NIL	0.1
30245	NIL	0.1
30246	NIL	NIL
30247	NIL	0.1
30248	NIL	0.3
30249	NIL	NIL
30250	NIL	0.2
30251	NIL	NIL
30252	NIL	0.1

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Eades

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: J. Wyder

File No. 30686
Date November 30, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au	PPM Ag
"Core Samples" Geochemical Analysis		
✓ BH-3-30324	NIL	NIL
30325	NIL	NIL
30326	NIL	NIL
30327	NIL	NIL
30328	NIL	NIL
30329	NIL	NIL
30332	NIL	NIL
30333	NIL	NIL
30334	NIL	NIL
30335	NIL	NIL
30336	NIL	NIL
30339	NIL	NIL
30340	NIL	NIL
30341	NIL	NIL
30342	NIL	NIL
30343	NIL	NIL
30345	NIL	NIL
30347	NIL	NIL
30352	NIL	NIL

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Roberts

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30716
Date December 18, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au	PPM Ag
BH-4-30253	NIL	NIL
30254	NIL	NIL
30255	NIL	NIL
30256	NIL	0.2
30257	NIL	0.1
30258	15	0.6
30259	NIL	NIL
30260	NIL	0.2
30261	5	0.6
30262	NIL	0.1
30263	NIL	NIL
30264	NIL	0.1
BH-3-30301	NIL	NIL
30358	NIL	NIL
30360	NIL	NIL
30361	NIL	NIL
30362	NIL	NIL
30364	NIL	NIL
30367	NIL	NIL
30368	NIL	0.1
30369	NIL	0.1
30370	NIL	NIL
30372	NIL	NIL
30373	NIL	NIL
30374	NIL	NIL
30375	NIL	0.1
30376	NIL	0.1
30377	NIL	0.2
30378	NIL	NIL
30379	NIL	0.2
30380	NIL	0.1

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Sellers

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30716
Date December 18, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au	PPM Ag
BH-3-30381	NIL	0.1
30382	NIL	NIL
30383	NIL	0.1
30384	NIL	0.1
30385	NIL	0.2
30386	NIL	0.1
30387	NIL	NIL
30388	NIL	0.1
30389	NIL	NIL
30390	NIL	NIL
30391	NIL	0.1
30392	NIL	0.1
30393	NIL	NIL
30394	NIL	NIL
30395	NIL	NIL
30396	NIL	NIL
30397	NIL	NIL
30398	NIL	0.1
30399	NIL	NIL
30400	NIL	NIL
BH-2-30627	225	4.1
30628	20	1.5
30631	40	1.0
30632	15	0.4
30633	15	0.5
30634	5	NIL
30635	30	2.1
30636	15	0.5
30637	NIL	0.1
30639	NIL	0.4
30640	NIL	NIL

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

P. Loring

Assayer

To: BRUCEJACK GOLD LTD.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Ed Kruchkowski

File No. 30615
Date November 9, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au	PPM Ag
"Core Samples" Geochemical Analysis		
30401	NIL	0.2
30402	NIL	0.2
30403	20	0.2
30404	NIL	0.3
30405	NIL	0.3
30406	NIL	0.3

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30650-1
Date January 4, 1988
Samples Pulp

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Pt
"Pulp Samples"	
30520	-30
30522	-30

(-) = Less Than

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

D. Fidler

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30650-1
Date January 4, 1988
Samples Pulp

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	% Cu	% Pb	% Zn
"Pulp Samples"			
30518	.06	.13	.60
30519	.15	.18	2.50
30520	.17	.23	1.65
30521	.02	.02	.17
30522	.02	.03	.26
30523	.01	.01	.14
30524	.01	Trace	.10
30525	.01	Trace	.08
30526	.01	.01	.05
30527	Trace	Trace	.11
30528	Trace	Trace	.07
30529	Trace	Trace	.05
30530	Trace	Trace	.05
30531	Trace	Trace	.06
30532	.01	.01	.04
30533	.01	.01	.04
30534	Trace	Trace	.05
30535	Trace	Trace	.05
30536	Trace	Trace	.04
30537	Trace	Trace	.05

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

D. Eaby

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30650-1
Date January 4, 1988
Samples Pulp

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	% Cu	% Pb	% Zn
30538	Trace	.01	.06
30539	.01	.01	.05
30540	Trace	.01	.07

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

D. Loring

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30586-1
Date January 4, 1988
Samples Pulp

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	% Cu	% Pb	% Zn
"Pulp Samples"			
30442	.01	.01	.03
30625	.01	.02	.23
30626	Trace	.01	.15

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D Pelly

Assayer

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVE .C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-17

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE 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

DATE RECEIVED: DEC 7 1987 DATE REPORT MAILED: Dec 9/87 ASSAYER. D. Toye ..DEAN TOYE, CERTIFIED B.C. ASSAYER

LORING LABORATORIES File # 87-6053

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM
30650-1 BH-6 30520	6	1839	2232	17959	40.9	22	17	880	6.92	112	5	2	2	25	110	9	2	93	1.16	.101	3	26	1.26	39	.45	2	2.52	.07	.02	1
30650-1 BH-6 30522	3	220	277	2022	4.9	35	14	745	5.60	169	5	ND	2	19	6	2	2	96	1.16	.063	3	34	1.08	86	.35	3	2.04	.06	.01	1

ACME ANALYTI LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 TELEX 04-

GEOCHEMICAL ANALYSI CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE 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

DATE RECEIVED: DEC 7 1987 DATE REPORT MAILED: Dec 10/87 ASSAYER. D. Toye. DEAN TOYE, CERTIFIED B.C. ASSAYER

LORING LABORATORIES File # 87-6052

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM
30586-1 BH-2 30625	4	47	124	1245	8.4	18	20	693	6.54	65	5	ND	3	15	6	2	2	94	1.32	.136	6	8	1.17	64	.48	2	1.76	.08	.09	1
30586-1 BH-2 30626	6	52	63	774	16.7	21	22	512	6.89	119	5	ND	1	15	5	6	2	95	1.97	.119	2	10	.71	44	.58	2	2.11	.08	.16	1
30586-1 ZONE#2 30442	34	77	23	104	27.8	55	30	650	21.69	455	5	ND	3	3	2	24	2	57	.51	.072	2	21	.76	11	.25	2	1.36	.06	.03	2
30586-1 BH-1 30419	3	2484	22513	66131	132.3	6	2	77	1.67	78	5	10	1	40	277	20	2	17	.05	.001	2	1	.08	25	.01	2	.09	.01	.01	10

✓ ASSAY REQUIRED FOR CORRECT RESULT -

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30750
Date December 18, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD
"Core Sample" "Assay Analysis" BH-2-30667	.032

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30750
Date December 18, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au	PPM Ag
"Core Samples" Geochemical Analysis		
BH-2-30601	20	0.4
30602	75	0.2
30603	80	0.4
30604	45	0.1
30605	85	0.2
30606	15	0.3
30607	55	0.4
30608	50	0.5
30609	30	0.3
30610	NIL	0.3
30611	15	0.4
30612	55	0.6
30613	45	0.5
30614	140	0.7
30615	NIL	0.8
30616	20	0.8
30617	50	0.9
30618	30	1.0
30619	115	1.0
30620	145	0.5
30650	50	0.6
30651	275	0.6
30653	NIL	0.7
30654	20	0.4
30655	80	0.8
30656	40	0.7
30657	135	0.6
30658	40	0.7

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D Eades

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30750
Date December 18, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au	PPM Ag
BH-2-30661	25	0.9
30662	15	1.0
30665	20	1.1
30666	55	0.6
30667	+1000	2.4
30670	110	0.5
30671	145	0.5
30672	20	0.6
BH-3-30302	25	1.7
30303	NIL	0.7
30304	10	0.8
30305	35	1.4
30306	65	1.2
30307	15	1.2
30308	15	1.1
30309	20	1.1
30310	10	0.9
30311	5	1.1
30312	30	1.1
30313	25	1.0
30314	20	1.0
30315	10	0.9
30316	30	0.9
30317	25	0.9
30318	NIL	1.0
30319	15	0.7
30320	85	0.6
30321	45	0.9
30322	10	0.7
30323	15	0.9
30330	15	0.9

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Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30750
Date December 18, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au	PPM Ag
BH-3-30331	10	0.8
30337	15	0.7
30338	35	0.9
30344	10	0.6
30346	NIL	0.8
30348	15	0.8
30349	5	0.7
30350	20	0.6
30351	20	0.7
30353	10	0.8
30354	NIL	0.7
30355	10	0.9
30356	15	0.7
30357	5	0.6
30359	10	0.7
30363	NIL	0.8
30365	10	0.7
30366	20	0.6
30371	15	0.7
BH-3-Special Sample	20	0.2
BH-6-30501	NIL	0.2
30502	5	0.3
30503	10	0.3
30504	NIL	0.2
30505	NIL	0.5
30506	25	0.4
30507	5	0.9
30508	5	0.4
30509	5	0.4
30510	20	0.4
30511	15	0.2

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Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

D. Loring

Assayer

To: BIG HORN DEVELOPMENT CORP.,
400, 255 - 17th Avenue S.W.,
Calgary, Alberta T2S 2T8

ATTN: Jack Wyder

File No. 30750
Date December 18, 1987
Samples Core

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	PPB Au	PPM Ag
BH-6-30512	20	0.3
30513	65	0.2
30514	5	0.4
30515	NIL	0.4
30516	20	0.5
30517	25	0.9

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

Assayer

APPENDIX D

DRILL LOGS

LOGGED BY E. HORNE

PROPERTY Crown Grant L265 DATE 12th Oct. 1987 STARTED N/S 10th Oct. FINISHED 17th Oct/87

DRILL HOLE BH-1 (Az 070 @ 44.5°) DEPTH 416.0' DOWN TIME

Hydraulic Drive

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag
	0.0 - 7.0			Casing		
	7.0 - 11.0			Missing Core (Ground Up)		
	11.0 - 12.5			Andesite/Dacite "Greenstone" Broken core		
		Box 1		slightly weathered ~ 1% Po, Py	ppb	ppm
30401	12.5 - 15.5		Siliceous Epidote & chlorite rich	Dacitic fragmental, trace Po, Py silicified &	Nil	0.2
30402	15.5 - 19.0			Epidote rich in part brecciated & crinkled	Nil	0.2
30403	19.0 - 24.0			with hairline fractures @ 30° - 45° C.A.	20	0.2
30404	24.0 - 29.0			Minor rubbly paleosol @ 20 & 21 feet (Dirt	Nil	0.3
				filled fractures 2" wide). Also silicified pale olive green		
				from 23.5 - 24.5 feet. ~ 3% Po @ 22.5'. Slight rust & blocky		
				ground @ 23.5'. Hairline to 1/" quartz. Epidote fractures		
				over 5% total rock @ 30-45° C.A. from 24.5' to 30.0'.		
30405	29.0 - 34.0	Box 2		Andesite/dacite with 0.5 mm (5%) phenocrysts of amphibole	Nil	0.3
				Less frequent hairline quartz fractures (2% of total)		
				@ 35° to 80° C.A. Strong epidote alteration 6" @ 29.5',		
				3" @ 31.5', trace Po.		
30406	34.0 - 39.0			As above with silicification & epidote	Nil	0.3
				Alteration 6" @ 35.5' Missing core ~ 38.0 - 39.0	oz/ton	oz/ton
30407	39.0 - 44.0			Andesite/Dacite with mafic phenocrysts 2-5%	.004	.02

E.R. KRUCHKOWSKI C ULTING

P

LOGGED BY E. HORNE

PROPERTY Crown Grants L265 DATE 12th Oct/87 STARTED _____ FINISHED _____

DRILL HOLE BH-1 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS oz/ton Au	ASSAYS oz/ton Ag
		Box 2		& quartz hairline fractures 40° - 80° C.A. (5%)		
30408	44.0 - 49.0			As above with conjugate fractures quartz	.005	.04
				filled & up to 5% quartz eyes 1.0 - 5.0 mm		
30409	49.0 - 54.0			Andesite/Dacite as above with 10% quartz eyes	.002	.04
				1.0 mm size from 49.0 - 50.0. Pyritization 1-2%		
				in thin(along)quartz hairline fractures & small disseminations		
30410	54.0 - 59.0			Broken up fragments 54.0 - 55.0 @ 20° & 80° C.A.	.003	.07
				open & oxidized. From 55.0 - 59.0 Andesite/Dacite with		
		Box 3		patchy mottled more fragmental appearance 6% @ 56.5',		
				58.0' & 59.5		
30411	59.0 - 63.0			Andesite/Dacite with small 1. mm size mafic	.001	.02
				Phenocrysts (1-3%) & fragmental mottled zones 5" @		
				59.5', 61.5' open fracture from 61.0 - 62.0' @ 85° C.A.		
	Box 3 Stops @ 66.0			with quartz & 1% Py.		
30412	63.0 - 68.0			Dacitic fragmental (mottled) with epidote	Tr	Tr
		Box 4		chlorite alteration slightly brecciated		
				appearance & trace Py.		
30413	68.0 - 73.0			Dacitic fragmental 1" quartz stringer @	.001	Tr
				69.5' thin hairline quartz stringers over		

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PROPERTY Crown Grants L265 DATE 12th Oct./87 STARTED _____ FINISHED _____

DRILL HOLE BH-1 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	
				3%. Pronounced epidote & chlorite alteration &			
				silicification & trace disseminated Py.			
30414	73.0 - 78.0			As above with trace disseminated Py	Nil	0.1	Ppb Ppm
30415	78.0 - 81.0			Dacitic fragemental as above ~ 5% hairline	Nil	0.4	Ppb Ppm
30416	81.0 - 84.0	Box 4		Quartz stringers & 1% white round quartz	Nil	0.5	Ppb Ppm
				Fragments (amygdules) alteration is silicification,			
				epidotization & chloritization, hairline quartz stringer			
				exhibiting brecciation & more frequent down hole (random			
				orientation) .6" broken core, minor oxidation & slightly			
				higher sulphides 1% Py @ 78.5' & 80.5' to 81.0'	oz/ton	oz/ton	
30417	84.0 - 86.0			As above altered to chloritic schist, broken	.003	0.08	Ppb Ppm
				core (highly fractured & water bearing during drilling)			
				fracturing // C.A., 30° C.A. & 70° C.A. Py, Po & Cpy.			
				Recovery of section ~ 75%.			
30418	86.0 - 89.0			Sulphide Zone (recovery 88%)heavy dark to medium	.043	9.60	Ppb Ppm
		Box 5		bluish grey color with fine sulphides, quartz, strong silicifi-			
				cation wispy contorted quartz, bands & blebs some sericite &			
				possible barite. Sulphides identified are Pyrite 15 - 20%,			
				galena ~ 3-5%, fine sulphides not positively identified			

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PROPERTY Crown Grants L265 DATE 14th Oct. 1987 STARTED _____ FINISHED _____

DRILL HOLE _____ DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	ASSAYS Ag
				(fine grained) are stibnite, tetrahedrite & enargite	oz/ton	oz/ton
				fracturing & banding at 30 - 40° C.A.		
30419	89.0 - 92.0			Sulphide zone (recovery 80%) heavy dark	.353	2.97
				to medium blush grey color with fine sulphides		
				quartz strong silicification, wispy contorted quartz &		
				pyrite stringers as above but with some chalcopyrite 1-3% &		
				malachite (highest percentage down hole)		
30420	92.0 - 94.0			Broken core recovery ~ 75% dark green	.034	2.56
		Box 5		andesitic rock with silicification & heavy massive stringers		
				of light grey sulphides @ 92.5 (2") & 94.0 (3")		
				Minerals identified include Py 3-15%, chalcopyrite (1-3%)		
				malachite ~ 2%.		
30421	94.0 - 97.0			Andesitic fragmental or pipe breccia with strong	.016	0.96
				silicification & 20% light grey quartz, fracture fill (random)		
				~ 15% pyrite dissemination		
30422	97.0 - 102.0			As above with 5% quartz hairline	.034	0.88
		@102.5		Fractures @ 60° C.A. (5%) trace Cpy, galenz	ppb	ppm
30423	102.0-105.0	Box 6		Andesitic fragmental or breccia pipe with	190	7.8
				quartz eyes 15% @ 104.0' ~ 15% Py over		

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PROPERTY Crown Grants L265 DATE 14th Oct./87 STARTED _____ FINISHED _____

DRILL HOLE BH-1 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Oz/Ton Au	Oz/Ton Ag	
		Box 6	Pyrite oxidized & Hard to distinguish from 105.0 to 120.0, trace only	Section; trace galena, chalcopyrite			
30424	105.0-110.0			Greenstone, strongly oxidized & Broken up	220	3.5	Ppb Ppm
				to 109.0' from 109.0 to 110.0 up to 30% quartz			
30425	110.0-115.0			Greenstone, strongly oxidized, with strong	265	4.9	Ppb Ppm
				silicification & 35-40% quartz 113.0 - 115.0			
30426	115.0-120.0			Greenstone (oxidized) with up to 15% quartz	8.5	2.3	Ppb Ppm
				eyes @ 116.5' & 118.5 - 120.0			
30427	120.0 - 125.0	at 122.0		Greenstone silicified with up to 10% quartz	35	1.6	Ppb Ppm
				eyes 1/8 to 1/4" size			
30428	125.0-130.0			Greenstone silicified with up to 15% quartz eyes	oz/ton .002	oz/ton .05	
				Trace pyrite. Oxidized intervals 126.0 to 129.5			
		Box 7		Open joints (fractures @ 20° C.A. & 55° C.A.			
30429	130.0 - 135.0			As above with some fractures @ 10° C.A.	10	0.6	Ppb Ppm
				Trace pyrite			
30430	135.0-139.0			As 125.0-130.0	oz/ton .001	oz/ton .02	
30431	139.0-144.0	@ 141.5		Greenstone strongly silicified with up to 20%	.002	.04	
				quartz eyes, trace pyrite.			
30432	144.0-149.0	Box 8		Greenstone strongly silicified as above	.004	.01	
				with quartz stringers & blebs @ 147.0-148.0			
				Trace pyrite only			

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PROPERTY Crown Grants L265 DATE 14th October, 1987 STARTED _____ FINISHED _____

DRILL HOLE BH-1 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Oz/Ton Au	Oz/Ton Ag
30433	149.0-155.0	Box 8		Greenstone strongly silicified up to 15%	.001	.03
				quartz eyes & 5% quartz stringers &		
30434	155.0-159.0	@ 159.5		Hairline Fracture fill again only trace pyrite	.001	.03
30435	159.0-162.5			Greenstone strongly silicified 5% quartz	.002	.06
				eyes 1/8" strongly brecciated (fragmental)		
				with 1/8" quartz stringers @ 5° C.A.		
				160.5' & 162.0' 3% Cpy stringers & disseminations		
30436	162.5-166.0			As above with 30% quartz filled hairline	.006	.16
		Box 9		fractures (Random orientation)		
30437	166.0-171.0			Dark Green silicified greenstone with	.002	.16
				up to 15% quartz eyes & 10% quartz filled		
				hairline fractures with some, chalcopyrite 1% dissemination		
				& fine stringers.		
30438	171.0-174.0			As above with up to 30% Po & Cpy mineralization	.013	.83
				in stringers & 4" massive bands 172.5-173.0		
30439	174.0-180.0	@ 178.5		Silicified greenstone fragmental with strong Po	.015	0.44
				Cpy mineralization i.e. 2" massive band @ 181.0',		
		Box 10		184.5' also fine dissemination 5% 182.5 to 184.5'		
30441	185.0-189.5			Silicified greenstone fragmental with 2-3%	.002	0.01

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PROPERTY Crown Grants L265 DATE 15th Oct./87 STARTED _____ FINISHED _____

DRILL HOLE BH-1 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Oz/T Au	Oz/T Ag
		Box 10		Cpy dissemination & 1/8" stringers unit has		
				some rounded 1/16" mafic phenocrysts or tuffaceous fragments (5%)		
30442	189.5 - 192.0			Silicified greenstone with massive cpy, Po	.042	.87
				Bank 190.5 - 191.5' & 1" stringers of Cpy, Po		
				@ 190.0' & 5% disseminated Cpy @ 191.5 to 192.0		
30443	192.0 - 197.0			Silicified greenstone fragmental 5% quartz	.004	.06
				eyes ~ 1% disseminated Cpy & blotchy rusty		
				section @ 198.0' (2-4") ~ 5" missing core (ground up)		
30444	197.0 - 200.0	Box 11		Silicified greenstone ~ 5% quartz eyes & 5%	.005	Tr
				Round mafic fragements 2-4% Po & Cpy stringers		
				& dissemination.		
30445	200.0 - 205.0			As above with 1" bands Po & Cpy @ 200.5' & 30% massive zone		
				from 204.0 - 204.5'		
30446	205.0 - 210.0			Silicified greenstone fragmental, as above	.002	.06
				with ~ 2% Cpy dissemination & hairline stringers		
30447	210.0 - 215.0	@ 215.0		Silicified greenstone fragmental, as above	.001	.07
		Box 12		with ~ 1% Cpy dissemination & hairline		
		Box		stringers & trace pyrite slightly lighter color (grey green)		
30448	215.0-220.0			silicified greenstone fragmental 2% pyrite	Tr	.05

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PROPERTY Crown Grants L265 DATE 15th Oct./87 STARTED _____ FINISHED _____

DRILL HOLE BH-1 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Oz/Ton Au	Oz/Ton Ag
				in fine 1/16" wide hairline quartz stringers & fine dissemination		
30449	220.0 - 225.0	Box 12		Silicified greenstone fragmental ~1% Pyrite	.005	.08
				dissemination ~5% quartz hairline stringers		
30450	225.0 - 229.0			As above	.004	.07
30451	229.0 - 234.0			Silicified greenstone fragmental 15% quartz	.003	.08
		@ 234.0		hairline fracture fill & 5% quartz eyes		
				5% mafic round fragements. Trace pyrite.		
N/S	234.0 - 236.0			As above (Less silicified no sulphides)		
N/S	236.0 - 246.0			Green volcanic trace Jasper & epidotization		
		Box 13		one speck of pyrite		
N/S	246.0 - 249.0			First Jasper Group - mafic volcanic with strong		
				15% wavy contorted epidote bands & up to 5% red Jasper		
				infrequent pyrite < 0.5% some quartz stringers.		
N/S	249.0 - 269.0		Box 14	First Jasper Group - mafic volcanic ~ 7%		
				jasper epidote some ~ 3% quartz hairline		
				stringers - no sulphides. Quartz epidote alteration		
				@ 265.5 ~ 6" some fracturing @ 30° C.A. & quartz filled		
				hairline stringers @ 40° C.A chlorite 40% 268.0-273.0 (fragmenta)		
N/S	269.0 - 288.5		Box 15	As above 5% disseminated pyrite 271.0 - 274.0		

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PROPERTY Crown Grants L265 DATE 15th Oct./87 STARTED _____ FINISHED _____

DRILL HOLE BH-1 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	
30456	271.0 - 274.0			Sampled over 271.0 - 274.0. More 25% epidote & quartz/	+1000 .152 oz/ton	.05	
				Jasper ~ 278.0'			
N/S	288.5 - 308.0		Box 16	First Jasper Group. Mafic volcanic with patches of epidote			
				Jasper to 310.0'			
	308.0 - 310.0		Box 17	As above			
	310.0 - 319.0			Only 1.5' core (fault gouge) 317.5 to 319.0' depth			
30459	317.0 - 319.0			~ 2% pyrite sampled. 317.5 - 319.0 only	Nil	0.1	ppb ppm
	319.0 - 329.0			First Jasper Group with blocky fractured ground to			
				329.0' & quartz hairline fractures @ 30° C.A.			
30460	329.0 - 330.0			As above ~ 15% quartz fractures & 5% Pyrite	315	0.1	ppb ppm
	330.0 - 332.0		Box 17	As above no pyrite			
	332.0 - 350.0		Box 18	First Jasper Group. Mafic volcanic with 5% epidote &			
				Jasper patches & 3% hairline quartz fracture fill ~ 40° C.A.			
				to 60° C.A.			
	350.0 - 369.0		Box 19	First Jasper Group with light colored epidote zones 351.0 -			
				352.5', 355.5 - 357.0', 365.5 - 366.5', unit also contains			
				feldspathic eyes (crystal tuff)			
	369.0 - 388.0		Box 20	As above with light colored epidote zones @ 370.5',			
				373.0 - 374.5', 380.0 - 381.0', 383.0 - 384.5 & 386.0 - 388.0'			
				Dark zones contain 15% feldspar & quartz eyes (crystal tuff)			

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PROPERTY Crown Grants L265 DATE 15th Oct./87 STARTED _____ FINISHED _____

DRILL HOLE BH-1 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS ppb Au	ASSAYS ppm Ag
	388.0 - 406.5		Box 21	As above with light colored epidote zones		
				@ 398.0', 400.0 - 402.5, 404.5 - 406.5'		
	406.5 - 416.0		Box 22	First Jasper Group		
				Mafic volcanic with Jasper ~ 10% feldspar & quartz eyes		
				(crystal tuff) epidote, light, zones 108.0 - 109.0 110.5 - 111.5		
				No sulphides.		
				T.D. @ 416.0 Hole flattened out, pressure on rods (turning		
				tight also lost circulation ~ 319' could not get return.		
				Delays on rig due to broken bearings, (hydraulic drive fixed)		
				due to tight rods could not chance another major breakdown		
				T.D. Hole @ 416.0 instead of 600'.		

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PROPERTY Crown Grants L265 DATE 18th Oct./87 STARTED 18th Oct./87 FINISHED

DRILL HOLE BH-2 (60°Az 070) DEPTH 334.0 DOWN TIME

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS		
	0.0 - 5.0			Casing			
	4.0 - 7.0	Missing Core		5.0 - 19.0 Andesite/Dacite 12.0' core missing core (5.0 -			
				7.0 ground up)			
30601	7.0 - 13.0			Greenish grey volcanic trace disseminated P.o. ~ 3%	20	0.4	ppb ppm
				hairline quartz stringers 2" @ 9.0' 40°C.A. chlorite (35%)			
				epidote (5%)			
30602	13.0 - 16.5	Box 1		As above ~ 55% chlorite & 5% Po, Anhedral crystals & patches	75	0.2	
				up to 5mm size. Rusty fracture @ 17.3' 30°C.A.			
30603	16.5 - 22.0			Andesite/Dacite with 5% mafic inclusions. Quartz hairline	80	0.4	
				fractures @ 80° C.A. ~ 5%. Slightly more silicified &			
				epidote rich.			
30604	22.0 - 27.0			Andesite/Dacite as above, rusty fractures 1" @ 22.5' & 23.5'	45	0.1	
				Light epidote rich zone 25.0 - 27.0. Some crinkling (Folding)			
				& slightly fragmental appearance. Trace pyrite.			
30605	27.0 - 32.0			Dacite fragmental with 5% hairline to 1/8" quartz stringers	85	0.2	
				@ 30 & 45° C.A., trace pyrite. Slightly andesitic segment			
				24.5 - 25.5' & Po (euhedral 1/8" 2% crystals) @ 32.0			
30606	32.0 - 37.0	Box 2		Dacitic fragmental. Trace pyrite, Po. Hairline quartz	.5	0.3	
				stringers @ 80° C.A. & slightly wavy			

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PROPERTY Crown Grants L265 DATE 20th Oct. 1987 STARTED _____ FINISHED _____

DRILL HOLE BH-2 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS ppb	ppm	ppb ppm
30607	37.0 - 41.0	Box 2		As above trace pyrite (slightly more andesitic?) with fractures	55	0.4	
				(rusty 38.5 - 39.5) & 41.0 - 42.0			
30608	41.0 - 47.0	@ 46.5 47.0		Andesitic fragmental crystal tuff 5% - 7% mafic fragments	50	0.5	
				5% siliceous fragments, 5% quartz hairline fractures @ 20° C.A.			
				& 70 - 80° C.A.			
30609	47.0 - 52.0			Dacitic andesitic fragmental as above 1% quartz, hairline	30	0.3	
		Box 3		fracture @ 60° C.A., trace pyrite.			
30610	52.0 - 57.0			Andesite fragmental with chlorite, epidote & quartz fracture	NIL	0.3	
30611	57.0 - 62.0			fill ~ 2% @ 80° C.A. & 30° C.A. Trace pyrite along hairline	15	0.4	
				fractures, more fragmental nature 52.0 - 54.0			
30612	62.0 - 67.0			57.0 - 58.4, 61.5 - 62.0, 62.5 - 63.0, 65.0 - 66.0 Unit has	55	0.6	
				10-15% mafic fragments (crystal tuff)			
30613	67.0 - 72.0			Andesitic/Dacitic fragmental with mafic crystal fragments	45	0.5	
		Box 4		10% up to 1cm size and epidote quartz fracture @ 5° C.A. from			
				65.5 - 66.5, pyrite ~ 0.5%			
30614	72.0 - 77.0			Andesitic crystal tuff (mafic fragments) ~ 1-2mm size sub	140	0.7	
30615	77.0 - 82.0	@ 82.5		rounded up to 15%. ~ 2% quartz stockwork hairline fracture	NIL	0.8	
30616	82.0 - 87.0			fill ~ 2% - 5% quartz fragments ~ 1% pyrite in hairline	20	0.8	
		Box 5		fractures (conjugate ~ 45° C.A.) blocky jointed			

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PROPERTY Crown Grants DATE 20th Oct. 1987 STARTED _____ FINISHED _____

DRILL HOLE BH-2 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Oz/Ton Au	Oz/Ton Ag
30617	87.0 - 92.0			74.0 - 76.0' @ 35° C.A. From 83.0 more dacitic green chert	50	0.9
				epidote @ 82.5 - 84.0 & 87.0 - 88.0 & 90.0 with up to		
30618		Box 5		0.5% disseminated pyrite. Quartz filled 1/8" fractures	30	1.0
				@ 20° C.A. @ 91.0, 94.0 & 98.0.		
30619	94.0 - 99.0			Blocky and slickensided 1/16" 92.0 & 94.0 Jointing @ 10° C.A.	115	1.0
				@ 100' pyrite overall ~ 0.5%.		
30620	99.0 - 102.0			Dacitic fragmental. Open fractures @ 10° C.A. @ 101.0 - 102.0	145	0.5
				~ 1% pyrite.		
30621	102.0 - 107.0			Dacitic fragmental 10% mafic fragments & crystals (crystal	.002	Tr.
				tuff) ~ 1% pyrite.		
30622	107.0 - 110.0	Box 6		Dacitic fragmental chlorite & epidote alteration, siliceous	.004	Tr.
				with 5% quartz, patchwork & 1% pyrite. Fracture @ 70° C.A.		
				@ 110.0.		
30623	110.0 - 112.0			Broken chloritic slightly rusty zone 6" good core @ 110.5 -	.004	.05
				111.0 ~ 1% pyrite. Sulphide zone 112.0 to 120.0 patchy.		
30624	112.0 - 115.0			~ 20% grey sulphides in light green volcanic fragmental.	.034	.38
				silicified and in part vuggy 112.0 - 112.6	.035	.30
30625	115.0 - 118.0	@ 119		Green/Grey volcanic with quartz hairline fracture fill & 5% py.	.035	.30
30626	118.0 - 120.0	Box 7		30% massive sulphides grey color altered replaced fragmental	.033	.54

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PROPERTY Crown Grants L265 DATE 20th Oct. 1987 STARTED _____ FINISHED _____

DRILL HOLE BH-2 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS oz/ton Au	ASSAYS oz/ton Ag	
				Some green chert and quartz replacement, barite? galena, py.			
				chalcopyrite, and sphalerite.			
30627	120.0 - 124.0	Box 7		Andesitic cherty greenstone, blocky with rust 1" quartz	225	4.1	ppb ppm
				stringers 120.0 - 121.0, Trace pyrite, no chalcopyrite!			
				Missing core			
30628	124.0 - 129.0			Blocky highly fractured andesite minor rusty alteration	20	1.5	ppb ppm
				only. Recovery ~75%.			
30629	129.0 - 131.5			Recovery ~30%. As above 129.0 - 131.5			
	131.5 - 136.5			missing (mislatch) As above, rusty and blocky	.004	.07	
				No visible pyrite. 5-7% quartz stringers			
30630	136.5 - 141.0	@ 138.7 Box 7		Greenstone fragmental. Trace pyrite and chalcopyrite	.002	.04	
30631	141.0 - 143.0			As above ~30% patchy blocky and hairline quartz.	40	1.0	ppb ppm
				Fractures @ 25° C.A. ~3% chalcopyrite.			
30632	143.0 - 148.0			Greenstone fragmental 30% quartz and 20% epidote	.5	0.4	ppb ppm
30633	148.0 - 153.0	Box 8		~1% chalcopyrite disseminated. More common 148.0 - 153.0	.5	0.5	ppb ppm
30634	153.0 - 156.0			Greenstone (less siliceous or fragmental)	5	NIL	ppb ppm
				5% quartz eyes 1 mm size and 5% quartz			
				hairline fractures 20 and 75° C.A., Trace pyrite			
30635	156.0 - 161.0	@ 159.0		Blocky fractured rusty greenstone	30	2.1	ppb ppm

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PROPERTY Crown Grant L265 DATE 20th Oct, 1987 STARTED _____ FINISHED _____

DRILL HOLE BH-2 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Oz/ton Au	Oz/ton Ag	
				Trace pyrite fractures ~ 10°, 20° and 30° C.A.			
30636	161.0 - 166.0			Greenstone siliceous fragmental, trace pyrite			ppb
30637	166.0 - 172.0	Box 9		As above 10% quartz eyes, hairline fractures	15	0.5	ppm
30638	172.0 - 177.0			10% - 20% epidote alteration trace pyrite	.001	.02	oz/ton
30639	177.0 - 180.0	@177.0		Greenstone fragmental, trace pyrite ~ 10%	NIL	0.4	ppb ppm
30640	180.0 - 185.0			quartz and epidote 180.0 - 185.0 As above	NIL	NIL	
30641	185.0 - 190.0	Box 10		Hairline quartz fractures 0° C.A. and 70° C.A.	15	0.1	
30642	190.0 - 196.0			Minor Jasper @ 182.5, 189.0, 190.0	NIL	0.1	
				First Jasper Group @ 190.0 Transitional			
				contact less quartz (white) more epidote and quartz (jasper)			
				~ 0.5% pyrite euhedral 4 mm cube ~ 195.0			
30643	196.0 - 203.0			First Jasper Group with ~ 15% epidote	15	NIL	ppb ppm
		Box 11		10% white quartz and 5% jasper. Dark green volcanic			
30644	203.0 - 205.0			203.0 - 205.0 ~ 1%. Euhedral pyrite 4-5 mm size cubes			
				6" epidote rich @ 199.5 jasper content up to 10% from 203.0'			
				Open fracture @ 5° C.A. @ 203.0' - 204.0'			
30645	205.0 - 210.0			As above slightly less pyrite open fracture set @ 30° C.A. and	5	NIL	ppb ppm
				1° C.A. ~ 210.0			
30646	210.0 - 215.0			First Jasper Group with 20% epidote ~ 10% jasper	5	NIL	ppb ppm

PROPERTY Crown Grant L265 DATE 22nd Oct,/87 STARTED _____ FINISHED _____

DRILL HOLE BH-2 DEPTH 335.0 DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Oz/ton Au	Oz/ton Ag	
				5% white quartz and chlorite			
				Fracture set @ 15°C.A. / 215.0 - 241.0 First Jasper Group			
Description 215 - 241	215.0 - 241.0			~ 25% epidote @ 217.0 - 218.0 and 222.0 - 224.0			
Except intervals as				core piece 220.0 - 221.0 taken out for microscope work.			
30647	215.0 - 220.0			(example) with euhedral py	NIL	0.1	ppb ppm
30648	221.0 - 225.0			as above with approx 20% white quartz eyes	NIL	0.1	ppb ppm
30649	225.0 - 230.0			225.0 - 226.0 (1-3 mm size)	NIL	NIL	ppb ppm
30650	230.0 - 235.0			235.0 - 237.0 approx 5% large euhedral py			
30651	235.0 - 237.0		↑	Approx 1.5 cm size			
30652	237.0 - 241.0		Box 13	First Jasper Group. 10% jasper 30% quartz epidote dark grey	NIL	NIL	
				fine grained volcanic. Trace py. Stockwork jasper quartz epidote			
30653	241.0 - 243.0		↓	As above with // C.A. shearing and minor rusty appearance			
30654	243.0 - 248.0			As above First Jasper trace pyrite.			
30655	248.0 - 250.0	Approx 250.0		As above py. Approx 1.5% large euhedral crystals (3 mm)			
30656	250.0 - 255.0		↕	with wavy epidote trace py and 1% quartz eyes?			
30657	255.0 - 260.0		Box 14	with 1% large py (euhedral x-tals 4 mm)			
30658	260.0 - 266.0			First Jasper Group as above 1% py			
30659	265.0 - 269.0		266.5	and more slickensized approx 10° C.A, More silicified blocky chloritic with 5%			
				py large cyrstals and very fine grained			

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DRILL HOLE BH-2 DEPTH 334.0 DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS ppb Au	ASSAYS ppm Ag
				less epidote more chlorite approx 30%		
				From 265.0 - 269.0		
30660	269.0 - 274.0			Dark volcanic with approx 7% jasper approx 10% epidote	5	0.1
30661	274.0 - 279.0		Box 15	in stockwork fashion approx 15% - 20% of unit		
30662	279.0 - 284.0			as above with 6" chloritic zone 279.0 - 279.5		
30663	284.0 - 289.0	@	285.0	@284.5 fracturing // C.A. and 10° C.A. and 25° C.A.	NIL	NIL
30664	289.0 - 294.0		Box 15	Down to 294.0 with brown rusty stain on fracture surface (even)	5	NIL
30665	294.0 - 297.0		Box	294.0 - 297.0 approx 6% fine grained pyrite		
30666	297.0 - 302.0		303.5	Jasper epidote dark volcanic blocky and fractured		
N/S	302.0 - 304.0			slightly only		
30667	304.0 - 309.0			As above } near fault zone?	+1000 .032 oz/ton	2.4
30668	309.0 - 313.5			As above }	NIL	0.1
30669	313.5 - 316.5		Box 17	More broken up. Slickensided from 313.5	NIL	NIL
30670	316.5 - 319.0		Box	onward - lost circ. gouge approx 4" @ 316.0		
				and 320.0 - 322.0 (approx 2% py) blocky approx 2% py		
30671	319.0 - 324.0	@	321.0	1-3% quartz stringers to 334.0'		
30672	324.0 - 329.0			Fracturing @ 20° C.A. and 70° C.A. Trace		
30673	329.0 - 334.0		Box 18	py but approx 5-10% rusty on fractures	NIL	NIL
N/S		END	Box	Lost circulation T.D. @ 334.0' Missing core approx 3' overall		
				in blocky ground		

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DRILL HOLE BH-3 (Az 070 @ 75°) DEPTH 459.0' DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS ppb Au	ASSAYS ppm Ag
	0.0 - 5.0			Casing		
	5.0 - 7.0			Ground core		
30301	7.0 - 11.0			fragmental Andesite/dacite agglomerate with chlorite epidote quartz	NIL	NIL
				stringers approx 1% py, 1% po and trace cpy		
30302	11.0 - 13.0			11.0 - 13.0 more quartz epidote and cpy 0.5% stringer quartz	25	1.7
			Box 1	@ 45° C.A. approx 1/2". 12.5 - 13.0 blocky ground		
30303	13.0 - 18.0			andesite/dacite fragmental 0.5% Po trace cpy	NIL	0.7
30304	18.0 - 23.0			andesite/dacite more massive quartz stringers @ 10°, 30° C.A.	10	0.8
				5% Po (0.5%, trace cpy.) blocky 22.5 - 23.0 (rusty)		
30305	23.0 - 28.0		25.5	As above with blocky vuggy sections 26.5 - 27.5, 28.0 - 36.0	35	1.4
30306	28.0 - 33.0			(intensely fractured rock with zones trace py? po? epidote	65	1.2
30307	33.0 - 36.0			rich 29.0 - 31.0	15	1.2
30308	36.0 - 41.0		Box 2	Dacitic massive to slightly fragmental, 10% quartz hairline frac	15	1.1
				and 1/4" stringers 20°, 40°, 45° and 70° C.A. approx 1% Po		
30309	41.0 - 46.0		@43.5	approx 0.5' missing	20	1.1
30310	46.0 - 50.0		Box 3	approx 0.5' missing. More epidote rich 46.0 - 49.0 trace py only	10	0.9
30311	50.0 - 55.0			Dacitic fragmental crystal tuff with approx 10%	5	1.1
30312	55.0 - 60.0			mafic phenocrysts approx 5% white hairline	30	1.1
30313	60.0 - 65.0		63.0	Quartz stringers. Trace py slightly more	25	1.0

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DRILL HOLE BH-3 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	
30314	65.0 - 70.0		Box 4	Fragmental 65.0 - 66.0, slightly blocky	20	1.0	
30315	70.0 - 75.0			56.0 - 58.0 hairline quartz stringers at	10	0.9	
30316	75.0 - 80.0	@ 80.0		5^{o}, 15^{o}, 45^{o} conjugate and 80^{o} C.A. often	30	0.9	
30317	80.0 - 85.0			slightly wavy open rusty fractures at	25	0.9	
30318	85.0 - 90.0			10 - 15^{o} C.A. at 79', 75' at 25^{o} C.A. at 70.0 - 71.5 and 80.0	NIL	1.0	
			Box 5	slightly rusty. Only trace py slightly			
30319	90.0 - 95.0			more siliceous with green chert and quartz	15	0.7	
30320	95.0 - 100.0	@ 98.0		87.0 - 88.5 at 94.5 and 109.0 - 109.5 not	85	0.6	
30321	100.0 - 105.0			sampled seperately only slight py content	45	0.9	
30322	105.0 - 110.0		Box 6	difference (tr+)	10	0.7	
30323	110.0 - 115.0			as above dacitic fragmental	15	0.9	
30324	115.0 - 118.0	@ 116.0			NIL	NIL	ppb ppm
30325	118.0 - 120.0			approx 1% py with green chert	NIL	NIL	ppb ppm
30326	120.0 - 125.0			As above dacitic fragmental approx 1% quartz	NIL	NIL	ppb ppm
30327	125.0 - 130.0			hairline fractures approx 5% at 45^{o} C.A. minor	NIL	NIL	ppb ppm
30328	130.0 - 135.0	@ 134	Box 7	blocky zones at 120.5 and 123.0 with slickensides	NIL	NIL	ppb ppm
				at 30^{o} C.A. 130.0 - 135.0 approx 25% green chert			
				quartz-epidote. Some crinkling approx 2% pyrite			
30329	135.0 - 139.0	approx 134.0		siliceous chloritic dacitic fragmental	NIL	NIL	

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DRILL HOLE BH-3 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	
30330	139.0 - 141.5			crystal tuff with gouge zone (soapy &	.5	0.9	
30331	141.5 - 144.0			schistose) at 140.5 (6") and 141.5 - 144.0 trace pyrite	10	0.8	
30332	144.0 - 147.5		Box 8	147.5 - 149.5, 150.0 - 152.0. Gouge zones	NIL	NIL	ppb ppm
30333	147.5 - 150.0			152.0 - 154.0 dacitic? andesitic? fragmental blocky	NIL	NIL	ppb ppm
30334	150.0 - 152.0	@	152.0	// C.A. trace pyrite - no quartz eyes - unit similar greenstone fragNIL	NIL		ppb ppm
30335	152.0 - 154.0			Dacitic fragmental agglomerate (greenstone)	NIL	NIL	ppb ppm
30336	154.0 - 159.0			164.0 - 174.0 and 174.8 - 178.5 core taken 172.0 - 172.7 so	NIL	NIL	ppb ppm
30337	159.0 - 164.0		Box 9	Sample minus this interval tr. py. Sections 174.0 - 174.8 & 178.5 more	5	0.7	
30338	164.0 - 169.0			massive with mafic phenocrysts (crystals tuff)	35	0.9	
30339	169.0 - 174.0	@	170.5	from 178.5 - 194.0 Dacitic/andesitic	NIL	NIL	ppb ppm
30340	174.0 - 179.0		Box 10	massive crystal tuff with 1-2% hairline	NIL	NIL	ppb ppm
30341	179.0 - 184.0			white quartz fracture fill wavy	NIL	NIL	ppb ppm
30342	184.0 - 189.0	@	189.5	@ 80° C.A. 45° C.A. also trace pyrite	NIL	NIL	ppb ppm
30343	189.0 - 194.0			20 & 0.2	NIL	NIL	ppb ppm
30344	194.0 - 199.0		Box 11	Two samples taken 194.0 - 194.5, 194.0 - 199.0 using 2nd half	10	0.6	
30345	199.0 - 204.0			dacitic/andesitic massive tuffaceous	NIL	NIL	ppb ppm
30346	204.0 - 209.0	@	209.0	greenstone approx 5% quartz hairline fractures and fragmental	NIL	0.8	
30347	209.0 - 214.0		Box 12	sections approx 203.0 - 204.0 fractures quartz @ 45° C.A., 25°	NIL	NIL	ppb ppm
				C.A., 0° C.A. other open at 25° C.A. and 0° C.A.			

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DRILL HOLE BH-3 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	
30348	214.0 - 213.0	@	209.0	Dacitic greenstone massive approx 1% pyrite	.5	0.8	
30349	219.0 - 224.0		Box 12	209.0 - 214.0 6" approx 5% - 15% red chert at	5	0.7	
30350	224.0 - 229.0		228.0	214.5 from 214.5 - as above with trace pyrite	20	0.6	
30351	229.0 - 234.0		→	Also trace jasper @ 217' fracturing at 45°	20	0.7	
30352	234.0 - 239.0		Box 13	C.A. at core ends. Minor epidote approx 3%	NIL	NIL	ppb ppm
30353	239.0 - 244.0			Minor hairline quartz fractures at	10	0.8	
30354	244.0 - 249.0		247.0	30° C.A. and random. From 249.0 - 250.0 approx 20%	NIL	0.7	
30355	249.0 - 254.0		→	Quartz epidote stringers and patchwork unit	10	0.9	
30356	254.0 - 259.0		Box 14	More chloritic 247.0 - 252.0 minor jasper at 252.0 some approx 3%	.5	0.7	quartz eyes
30357	259.0 - 264.0			2 mm sub rounded along with 1-5 mm	5	0.6	
30358	264.0 - 269.0		266.5	(10% - 15% mafic phenocrysts (crystal tuff)	NIL	NIL	
30359	269.0 - 274.0		Box 15	From 252.0 - 269.0. Overall trace random	10	0.7	
30360	274.0 - 279.0			disseminated py, approx 0.5% slightly higher	NIL	NIL	
30361	279.0 - 284.0		Approx 283.0	content than before. 270.5 - 272.5 fractures	NIL	NIL	
30362	284.0 - 289.0		→	(open// C.A. & 5-10° C.A. also some at 274.0 - 275.0	NIL	NIL	
30363	289.0 - 291.0			Quartz epidote stringers ½" at 277.5	NIL	0.8	
30364	291.0 - 294.0		Box 16	trace pyrite only approx 3-5% quartz eyes at	NIL	NIL	
30365	294.0 - 298.5		Box	280.0 - 282.0 otherwise approx 1% only except	10	0.7	
30366	298.5 - 300.5		←	3% py at 289.0 - 291.0, 298.5 - 300.5 still approx 2% quartz	20	0.6	

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DRILL HOLE BH-3 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	ppb ppm
			@302.0	eyes and mafic 10% clasts and phenocrysts			
30367	300.5 - 304.0		301.5	As above to 314.0 with quartz epidote 3" at 70° C.A.	NIL	NIL	
30368	304.0 - 309.0		Box 17	at 308.0' NO py except trace throughout unit	NIL	0.1	
30369	309.0 - 314.0		Box	more fragmental and chloritic with ½" 75° or // C.A.	NIL	0.1	
30370	314.0 - 319.0		320.5	Quartz at 313.3 also quartz epidote (barren) at	NIL	NIL	
30371	319.0 - 321.0			316.5 - 317.5 at 50° C.A. and bleb at 318.5 from			
30372	321.0 - 326.0		Box 18	314.0 - 319.0 lighter color (more epidote) 319.0 - 321.0 fracturing at 5° C.A. and 5% large 5 mm	NIL	NIL	
30373	326.0 - 331.0		Box	crystals of pyrite			
30374	331.0 - 335.0			greenstone fragmental trace pyrite with chlorite and epidote and crinkles at 326.0 and 331.0	NIL	NIL	
30375	335.0 - 339.0		@339.0	slightly higher + trace pyrite 331.0 - 335.0	NIL	0.1	
30376	339.0 - 342.0			fracture 1' long at 5° C.A. trace only of white quartz	NIL	0.1	
30377	342.0 - 345.0			hairline fractures more crystal tuff (massive - 335.0 - 339.0)	NIL	0.2	
				339.0 - 342.0 greenstone fragmental trace pyrite slightly more			
				hairline quartz approx 7% 342.0 - 345.0 more chloritic, mafic			
			Box 19	phenocrysts and 1% Py, Po.			
30378	345.0 - 350.0			345.0 - 350.0 slightly <1% Py. Po.	NIL	NIL	
30379	350.0 - 355.0			quartz hairline fractures at 25° CA 80° CA approx 3-5%	NIL	0.2	
				Some large Po crystals 348 - 349 in chloritic material approx			
				3% 5 mm size 350.0 more massive dacitic			

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DRILL HOLE BH-3 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	ppb ppm
			Box 19 ↑	crystall tuff with euhedral 2mm - 3 mm feldspar phenocrysts and			
				mafic 1 mm rounded fragments approx 10% each. Quartz chlorite			
				epidote wavy mottled zone 353.5 - 354.5 trace pyrite			
		@	358.0 ↓	Overall. all same			
30380	355.0 - 360.0		Box 20 ↑		NIL	0.1	
30381	360.0 - 365.0			description + 360.0' massive mafic crystal tuff dacite with fine	NIL	0.1	
30382	365.0 - 370.0			disseminate py. 0.3 - 0.5% from 360.0 - 375.0 with wavy quartz-	NIL	NIL	
30383	370.0 - 375.0			epidote patches 1" at 360.2 at 60° C.A. 363.5 - 365.0, 368.5 -	NIL	0.1	
30384	375.0 - 380.0	approx	377.0 ↓	369.5, 370.0 - 371.5 and 3" at 373.0 at 65° C.A. Also at	NIL	0.1	
30385	380.0 - 385.0		Box 21	382.0 - 382.5, 385.0 4", 390.5 - 392 trace py overall	NIL	0.2	
30386	385.0 - 390.0			MC (misslatch at 381.0 - minor 6" L.C.) from 395.0 - 415.0	NIL	0.1	
30387	390.0 - 395.0	@	396.5	andesite/dacite with 10-15% quartz hairline fractures random and at 20-30° C.A. only	NIL	NIL	
30388	395.0 - 400.0		Box 22 ↑	trace pyrite. This hairline quartz was reason to continue hole.	NIL	0.1	
30389	400.0 - 405.0			Unit also has approx 2% feldspar phenocrysts approx 1% quartz	NIL	NIL	
30390	405.0 - 410.0			eyes and approx 6% mafic phenocrysts mm size. Unit overall	NIL	NIL	
				dacitic crystal tuff			
30391	410.0 - 415.0	@	414.5	415.0 - 459.0 Less only approx 5% quartz hairline	NIL	0.1	
30393	415.0 - 420.0		Box 23	fracturing. Dacitic crystal tuff with 1" quartz at 45° C.A. at	NIL	NIL	
30394	420.0 - 425.0			417.5 & some wavy chlorite (2") only trace pyrite also ½" quartz at 420	0 NIL	NIL	

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DRILL HOLE BH-4 (Az 110 @ 45°) DEPTH 239.0 DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	Ppb Ppm
	0.0 - 6.0			Casing			
30226	6.0 - 11.0			Andesite/Dacite with ~ 5-7% mafic rounded and euhedral pheno-	Nil	0.2	
				crysts (crystal tuff) ~ 3% quartz hairline stringers @ 20° &			
		Box 1		45° C.A. Some cherty bands ~ // C.A. (2-5%)			
				Trace pyrite core recovery 4.5' broken up 6.0 - 7.0			
30227	11.0 - 14.5			& 10.0 - 11.0 As above with open Mn stained fractures // C.A. &	50	0.3	
				10 - 15% patchy quartz-epidote alteration. Trace+ pyrite,			
				some leached vugs (2%)			
30228	14.5 - 20.0	24.5	approx	Andesite/Dacite with minor 2% white	Nil	0.1	
30229				quartz hairline fractures random, 85° C.A.	Nil	0.2	
				and 80 - 90° C.A. Trace pyrite 20.0 - 25.0 as above with			
				leached patches with epidote alteration @ 20.0 - 22.0			
				4" @ 23.5 & 24.5			
30230				Dacite crystal tuff/fragmental with dark patches around	Nil	0.3	
		Box 2		clasts some large mafic phenocrysts 5mm. More wavy patchy			
				epidote and ~ 5% white quartz hairline fractures @ 40°, 80°			
				C.A. and // C.A. @ 28.5.			
30231	30.0 - 35.0			As above with some open fracture // C.A. and more slabby/	Nil	0.0	
				blocky core ~ 10% rusty on open fracture planes. Trace pyrite.			

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DRILL HOLE BH-4 | DEPTH 239.0 | DOWN TIME

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	Ppb Ppm
30232	35.0 - 40.0	Box 2		Also slabby due to fractures // C.A.	140	0.2	
				Less broken Sections @ 30.0 - 31.0, 32.0 - 33.0 &			
		@ 44.0		34.0 - 35.0, 39.0 - 40.5 Lost core ~ 6" spread out over box			
30233	40.0 - 45.0			Dacite (more fragmental, agglomeritic @ 40.0 - 40.5 only trace	Nil	0.2	
30234	45.0 - 50.0	Box 3		pyrite overall as previously blocky 40.5-45.0, 47.0-48.0 1/4"	Nil	0.2	
30235	50.0 - 54.0			gouge @ 43.5, some open fractures @ 50-55° C.A. & flatter	Nil	0.1	
30236	54.0 - 55.0			& (light) epidote @ 44.0-45.0, no pyrite. 45.0 - Dacitic	Nil	0.2	
30237	55.0 - 60.0	@ 61.5		fragmental more siliceous greenstone with more frequent	Nil	0.1	
				white quartz hairline fractures, random & @ 70°, 20°, 45° C.A.			
				More pyrite 0.5% along fractures & siliceous zones. (54.0 -			
				55.0 5%) Blocky core 53.0 - 54.0 2" @ 56.5 and 60.5			
30238	60.0 - 65.0			Dacitic crystal tuff (more massive) with white quartz hairline	Nil	0.3	
		Box 4		fractures 30°, 45°, 80° C.A. 10%			
30239	65.0 - 70.0			with chlorite, green silica and ~ 1% pyrite	Nil	Nil	
				6" epidote stain 68.0 - 68.5, 65.0+ as above with quartz			
				hairline fractures (~ 7%)			
30240	70.0 - 75.0			As above ~ 10% quartz hairline fractures 1% pyrite	Nil	Nil	
30241	75.0 - 80.0	@ 81.5		As above with quartz epidote wavy patches @ 80.0 - 81.5;	Nil	0.1	
30242	80.0 - 82.0	Box 5		83.0 - 83.3, 83.7 - 84.0 wavy with pyrite 0.5%	Nil	0.2	

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DRILL HOLE BH-4 DEPTH 239.0' DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	Ppb Ppm
		Box 5		and possible darker sulphides? Trace pyrite			
30243	82.0 - 84.0			from 81.5 - 83.0 10% quartz hairline fractures	Nil	Nil	
30244	84.0 - 89.0			Dacitic/Andesitic crystal tuff ~ 7% quartz hairline fractures	Nil	0.1	
30245	89.0 - 91.0	@100.0		@ 75° C.A., 30° C.A. and 45° C.A. Dacitic fragmental with	Nil	0.1	
				gouge @ 89.5 and ~ 1% pyrite overall (some green chert and wavy			
				epidote chlorite			
30246	91.0 - 95.0			Dacitic crystal tuff, quartz hairline fractures pyrite	Nil	Nil	
				some green chert (greenstone like), trace pyrite.			
30247	95.0 - 98.0	Box 5		Crystal tuff (dacitic) with chloritic fracturing // & 10° C.A.	Nil	0.1	
				trace pyrite 95.0 - 96.5'			
30248	98.0 - 100.0			As above with silicified, chloritized quartz-epidote patch	Nil	0.3	
30249	100.0 - 105.0	@100.3		(wavy ~ // C.A. with pyrite 1-2%)			
				From 100.0	Nil	Nil	
30250	105.0 - 110.0	Box 6		Dacite crystal tuff, with rare quartz hairline fractures &	Nil	0.2	
				more chlorite epidote patches. Again only trace pyrite with			
30251	110.0 - 115.0			more fragmental 105.0 - 110.0, slightly more pyrite 0.5%	Nil	Nil	
30252	115.0 - 120.0	@118.7		Some green chert & ~ 2% white quartz hairline fractures	Nil	0.1	
30253	120.0 - 125.0	Box 7		110.0 - 120.0 and from 120.0 - 125.0 with < 1% quartz eyes -			
				also only trace pyrite, darker more mafic chloritic volcanic	Nil	Nil	

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DRILL HOLE BH-4 DEPTH 239.0' DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	ppb ppm
30254	125.0 - 128.0	Box 7 ↑		First Jasper Group transition. Trace pyrite only. 128.0-131.0			
				slightly more fragmental with spiderweb network of quartz	Nil	Nil	
30255	128.0 - 131.0			epidote & ~ 1-2% red jasper, trace pyrite 2" bleached pod	Nil	Nil	
30256	131.0 - 135.0			quartz jasper @ 131.0 - 135.0 as above less quartz epidote			
		@136.3 ↓		with 10% quartz eyes @ 134.5 - 135.0	Nil	0.2	
30257	135.0 - 137.5			More siliceous with green chert, slightly more pyrite (trace	Nil	0.1	
30258		Box 8 ↑		plus) & some Chalcopyrite ~ 3% @ 137.5 - 138.5 Quartz hairline	15	0.6	
				& fracturing, from 135.0 - 141.0 ~ 10-15% with green chert,			
				greenstone type sequence (siliceous)			
30259	138.5 - 141.0			Fragmental type greenstone with quartz hairline fractures &	Nil	Nil	
				green chert to 141.0	Nil	0.2	
30260	141.0 - 143.0			141.0 onward (transition @ First Jasper ~ 2-3% jasper)			
30261	143.0 - 144.0			Slightly more pyrite trace chalcopyrite 143.0 - 144.0	5	0.6	
30262	144.0 - 149.0			Dark mafic volcanic with epidote/jasper stockwork trace pyrite,	Nil	0.1	
30263	149.0 - 154.0			some ~ 5% patchy quartz eyes	Nil	Nil	
30264	154.0 - 158.0	@155.5 ↓		Lighter more green chert less jasper ~ 0.5% and euhedral	Nil	0.1	
		Box 9 ↑		pyrite crystals up to 5mm size @ 155.0 - 158.0 (~ 3%)			
		↓ Box		1' Quartz/epidote patch 156.5 - 157.5 & 2" @ 158.4'			
N/S	@ 158.5 -175.0	@175.0		First Jasper Group mafic volcanics with ~ 10% bright red			

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PROPERTY Crown Grants L265 DATE 26th Oct. 1987 STARTED _____ FINISHED _____

DRILL HOLE BH-4 DEPTH 239.0' DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au ppb	Ag ppm
		Box 10		Jasper pods and patchwork ~ 5% epidote ~ 2% quartz fragments (eyes) No pyrite. Very dense & hard (poor penetration rate), mafic crystal tuff with jasper solution stockwork & fracture fill @ 10°, 30°, & 45° C.A. wavy chlorite ~ 10% along healed fracture planes. Another name for this unit "Purple red volcanic".		
N/S	175.0 - 194.0					
N/S	194.0 - 196.0	@ 195.0		Slightly more fragmental or stockwork with 10% white quartz - no pyrite or sulphides.		
N/S	196.0 - 209.0	Box 11		As 175.0 - 194.0 with quartz epidote patches @ 191.0', 193.5 & 201.0 - 202.5 quartz eyes ~ (3-5%) also		
	209.0 - 211.0			trace pyrite @ 204.0 & 209.0 - 211.0 with chlorite wavy zone		
		@ 214.0		~ // C.A. & some broken up core. M.C. ~ 4"?		
N/S	211.0 - 230.5	Box 12		First Japser Group dense purple/red volcanic with 15% - 20% epidote/jasper patches (stockwork infill) 5% quartz eyes & clasts.		
		@ 230.5				
N/S	230.5 - 239.0	Box 13		Predominant infill fracture sets @ 45°, 30° & 15° C.A. some also // C.A.		
				Total depth @ 239.0'. Last Hole Az 110 is @ 45°. Purpose was to check for up plunge or down plunge of Main "A" sulphide zone. Zone was not encountered @ Az 110 (on Bh-4 or BH-5)		

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PROPERTY Crown Grants L265 DATE 27th Oct. 1987 STARTED _____ FINISHED _____

DRILL HOLE BH-5 (Az 110 @ 60°) DEPTH 209.0' DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	Ppb Ppm
N/S	0.0 - 6.0	Box 1		Casing			
N/S	6.0 - 8.0			Broken up core N/S			
N/S	8.0 - 13.0			Dacite crystal tuff/fragmental with			
N/S	13.0 - 18.0			~ 10% Quartz hairline fracture fill @ ~ 80° C.A.			
N/S	18.0 - 21.0			Epidote alteration @ 19.5 - 21.0 trace pyrite	Not split use BH-4		
25976	21.0 - 23.5	@23.5		Pyrite (except some crystals @ 22.5) is commonly with	Nil	0.5	
		Box 2		silicified greenish chert and less than 1%			
25977	23.5 - 29.0			Siliceous greenstone as per 6.0 - 21.0 with trace pyrite	Nil	0.2	
25978	29.0 - 34.0			Siliceous dacitic epidotized unit with 5% quartz hairline	Nil	0.3	
N/S	34.0 - 39.0			fractures @ 85° & 45° C.A. only trace pyrite, epidote zone			
25979	39.0 - 44.0	@44.0		(bleached) ~ 34.0 - 39.0 & more fractured & blocky	Nil	0.3	
		Box 3		(some lost core 8")			
				Zone from 39.0 - 44.0 with trace pyrite			
25980	44.0 - 49.0			Dacite/Greenstone siliceous with ~ 10%	Nil	0.6	
25981	49.0 - 54.0			quartz hairline fractures (fragmental) trace pyrite &	Nil	0.6	
25982	54.0 - 59.0			some green chert ~ 44.0 - 49.0 and more crystal tuff	Nil	0.3	
25983	59.0 - 64.0	@63.0		~ 49.0 - 59.0 @ 59.4, higher ~ 30% chlorite & 4.0 - 5.0 mm sized pg.	15	0.3	
		Box 4		5% pyrite overall ~ 5% white quartz hairline fractures ~ 25%			
				C.A. & 80° C.A. From 44.0 - 49.0 ~ 8% quartz hairline fracture	fill		

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PROPERTY Crown Grant L265 DATE 30th Oct, 1987 STARTED _____ FINISHED _____

DRILL HOLE BH-5 DEPTH 209.0' DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au Ppb	Ag Ppm	
			Box 4	Some epidote and blocky ground 62.5 - 64.0 minor rust at 62.5-63.0			
25984	64.0 - 69.0			Dacitic greenstone fragmental with approx 3% white quartz	NIL	0.2	
25985	69.0 - 74.0			hairline fractures	NIL	0.3	
25986	74.0 - 78.5			and 8% - 15% chlorite/green chert overall	NIL	0.1	
		@	81.0	trace pyrite only no concentrations			
25987	78.5 - 84.0		Box 5	from 78.5 - 84.0 blocky and rusty yellow stain (78.5 - 79.0) @ (83.5 - 84.0)	NIL	0.1	
				fractures at 30° and 45° C.A. No pyrite to trace			
25988	84.0 - 89.0			Andesite/dacite with approx 5% white quartz hairline fractures	NIL	0.3	
				approx 3% greenish chert. No pyrite to trace approx 2" quartz-			
				epidote @ 85.0'			
25989	89.0 - 94.0			As above with epidote/chlorite/quartz patches at 89.0-89.5, 90.5,	NIL	0.1	
				92.0-92.3 and 94.0			
25990	94.0 - 99.0	@	100.0	Andesite/dacite with patches of epidote/chlorite/green chert	NIL	0.2	
			Box 6	(quartz) 98.8 - 99.5, only trace pyrite			
25991	99.0 - 104.0			As above approx 6% white quartz hairline fracture	NIL	NIL	
25992	104.0 - 109.0			Fill wavy approx 30° C.A. and 75° C.A. patchy epidote etc.	NIL	0.2	
25993	109.0 - 114.0			at 101.5 - 102.5 at 1080' 3" only trace pyrite	NIL	0.4	
25994	114.0 - 119.0			some open fractures at 20° C.A.	NIL	0.2	

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PROPERTY Crown Grant L265 DATE 30th Oct, 1987 STARTED _____ FINISHED _____

DRILL HOLE BH-5 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	Ppb Ppm
		@	119.0	slightly more siliceous crystal tuff and trace + pyrite 109.0 -			
				114.0 with patchy epidote quartz @ 113.0 @ 115.0			
25995	119.0 - 124.0			andesite/dacite crystal tuff. slightly more fragmented, quartz	NIL	NIL	
				hairline fractures			
25996	124.0 - 129.0		Box 7	approx 6% at 5° 40° & 80° C.A. and wavy along with 2-3% green	NIL	NIL	
				chert & trace pyrite.			
25997	129.0 -134.0			Some brecciation/fragmental and more intense hairline fracturing	NIL	0.2	
				and trace pyrite from 129.0 - 133.0			
25998	134.0 - 139.0	@	138.0	as above andesite/dacite crystal tuff with quartz-chlorite and	NIL	0.1	
				green chert fracture fill and patches and trace + pyrite			
				patchy epidote 135.5 - 136.0			
25999	139.0 - 144.0			Dacite/andesite x-tuff slightly fragmental	NIL	0.1	
26000	144.0 - 149.0		Box 8	Some stockwork at 139.0 - 140.0 and approx 3%-5%	NIL	0.2	
NEW				white quartz hairline fractures random			
SERIES				& 15° and 50° C.A. Also some 80° at 131.0			
30576	149.0 - 154.0			As above with first red jasper @ 149.5	NIL	NIL	
		@	157.0	More fragmental appearance and odd quartz-eye. Again trace pyrite			
			Box 9	and green chert fragments (more greenstone type)			
30577	154.0 - 159.0			Greenstone fragmental trace pyrite as per 149.0 - 154.0 open	NIL	0.1	

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DRILL HOLE BH-5 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	Ppb Ppm
				fractures approx 2' intervals			
30578	159.0 - 164.0			At 25° C.A. andesite/dacite crystal tuff. Minor ¼" and hairline	NIL	0.3	
				quartz approx 70° C.A. No pyrite			
30579	164.0 - 169.0			Greenstone fragmental (in part) dacitic rock. Trace only pyrite	95	0.1	
			Box 9	& infrequently disseminated			
30580	169.0 - 174.0			very small miniscule 1-2% quartz-eyes only. Fracturing at 15°	NIL	0.1	
				C.A. 171.0 - 172.0' More epidote in fractures instead of quartz			
		@	175.0	approx 2% red chert (First Jasper Group) fracture displaces			
				veinlets 2 cm.			
30581	174.0 - 179.0			Quartz approx 10% in hairline fractures and pods	NIL	NIL	
			Box 10	First Jasper Group approx 174.0'. Not pyritized			
	179.0 - 209.0	NOT SAMPLED	Box	As above First Jasper Group - NO pyrite or sulphides. Dense			
				dark volcanic with 10% jasper and 20% quartz epidote and chlorite			
	NOT SAMPLED	@	193.0	patches and stockwork breccia - poorly silicified. Epidotized			
				patch @ 193.0 - 194.0. Some open fractures 3' intervals at			
				approx 20° C.A. No pyrite or chalcopyrite Po. except odd 2 mm.			
			Box 11	cube (one at 190.0') some more intense			
30582	193.0 - 195.5			Fracturing 193.0 - 195.5 (sampled)	NIL	NIL	
				END OF HOLE at 209.0'			

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PROPERTY Crown Grant L265 DATE 28th Oct. 1987 STARTED _____ FINISHED _____

DRILL HOLE BH-6 Az 080 to 082 @ 46° DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS ppb Au	ASSAYS ppm Ag
	0 - 5.0			Casing. Missing core 5.0 - 6.5		
N/S	6.5 - 9.0			Blocky core dacite crystal tuff approx 5%		
N/S	9.0 - 10.0	MC		Green chert MC 9.0 - 10.0 blocky at 10.0		
30501	10.0 - 15.0			Dacite, crystal tuff/fragmental green and siliceous approx 0.3%	NIL	0.2
30502	15.0 - 20.0			As above more broken up from 16.0 - 17.0 & 18.5 - 19.5. Missing	5	0.3
30503	20.0 - 25.0		Box 1	core in next Box #2. Combined interval 15.0 - 20.0 fracturing	10	0.3
				approx 5°, 30° & 50° C.A. approx 2% thin white quartz hairline		
				fragments & trace to approx 0.3% pyrite overall. Chlorite/		
				epidote wavy bands approx // C.A.		
30504	25.0 - 28.5		25.0	As above with more silica & epidote (fragmental) only trace py.	NIL	0.2
				Lighter colour quartz stringer & hairline fracture fill at 30°,		
				45° C.A.		
30505	28.5 - 31.0			More siliceous/fragmented or brecciated with approx 4% Po &	NIL	0.5
				trace chalcopyrite		
30506	31.0 - 36.0			Dacitic crystal tuff less fractured trace pyrite	25	0.4
30507	36.0 - 41.0			As above more fractured (quartz-epidote) trace + Po. approx 1%	5	0.9
				pyrite. 2" quartz stringers 55° C.A. @ 39.4 &		
30508	41.0 - 46.0			More massive dacite/andesite crystall tuff	5	0.4
		approx	44.0	approx 3% white quartz-hairline fractures trace pyrite		

BE #2 SHOULD SAYS #

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PROPERTY Crown Grant L265 DATE 28th Oct, 1987 STARTED _____ FINISHED _____

DRILL HOLE BH-6 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	Oz/ Ton
30509	46.0 - 49.0			At 45°, 55° approx 30° C.A. slightly more fragmental and	5	0.4	
				blocky downhole. Trace pyrite			
30510	49.0 - 50.0			Dacitic greenstone fragmental with quartz	20	0.4	
30511	50.0 - 53.0			Hairline structures and stockwork, approx 1% py open 1" rusty	15	0.2	
				fracture, at 47.0' and blocky			
30512	53.5 - 54.5			Broken up at 49.0 - 51.0' no increase in sulphides. 50.0-53.0	20	0.3	
				dacite more massive			
30513	54.5 - 60.0			53.0 - 54.0 siliceous stringers approx 5% py Po? more massive	65	0.2	
				dacite pyrite approx 0.5% along fracture planes @ 30° and 50°			
30514	60.0 - 64.0	approx	63.5	and 80° C.A. open fracture 5° C.A. at 62.0	5	0.4	
30515	64.0 - 69.0			Dacite greenstone, siliceous altered	NIL	0.4	
	Missing core	72.5-73.5	blocky ground	Some grey quartz py approx 1% core badly broken up approx 55° C.A.			
30516	69.0 - 74.0			Dacite (siliceous greyish alteration)	20	0.5	
				epidote-quartz fracturing approx 10% random pyrite approx 1.5%			
30517	74.0 - 79.0			Dacite (siliceous greyish) pyrite approx 2%	25	0.9	
30518	79.0 - 81.5			Blocky rusty (yellowish)	.007	.31	"
N/S	81.5 - 82.0	Missing core		in above blocky ground			
30519	82.0 - 84.0			Greenstone with stringers of grey quartz and heavy some copper	.034	.85	"
				stain (sulphide zone)			

BOX 4 SHOULD BE #3

SAYS BOX 4 SHOULD BE 4

BOX 5 SHOULD BE 4

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DRILL HOLE BH-6 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	Oz/ Ton
30520	84.0 - 86.0		86.5	wavy bands approx ½" to 1" approx// C.A.	.028	1.18	"
30521	86.0 - 89.0	@	86.5	Dacite greenstone with 5% patchwork white & light grey quartz	.005	.11	"
			↑	approx 5% pyrite blebs and dissemination			
30522	89.0 - 90.5			Approx 50% quartz (grey) stockwork and blebs in greenstone	.004	.18	"
				(heavy) with some grey sulphides (tetrahedrite? stibnite?)(fine)			
30523	90.5 - 93.0		Bdx 6 should be 5	approx 30% grey quartz stockwork (heavy)? barite? & tetrahedrite?	.004	.20	"
30524	93.0 - 95.5			As above 15-20% grey quartz and heavy fine grained sulphides	.002	.07	"
				(some approx 2% chalcopyrite and pyrite			
30525	95.5 - 100.0			Greenstone siliceous breccia fragmental with 5-6% py, cpy	.007	.20	"
				stringers and some galena (trace) throughout (no concentrations)			
30526	100.0 - 104.0	Approx	105.0	and minor grey sulphides adjacent cpy stringers from 100.0 -	.009	.25	"
			↑	105.0 as above with more cpy approx 10% Rusty zone 104.0 - 105.5			
				(blocky) greenstone			
30527	104.0 - 109.0			Dacite with grey quartz stockwork? and rusty quartz. Pyrite and	.005	.10	"
			Bdx 6 Says 7	malachite. Greenstone frag.			
30528	109.0 - 113.0			Greenstone siliceous fragmental/stockwork breccia with grey	.006	.20	"
				quartz. Grey sulphide and pyrrhotite 2-3%			
30529	113.0 - 116.0		↓	As above with approx 30% 2" stringers chalcopyrite @ 30 to 40°	.010	.47	"
				C.A. at 113.5 and 115.5 slightly wavy and stockwork like with			

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DRILL HOLE BH-6 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	Oz/ Ton
30530	116.0 - 120.0		↑	5% quartz eyes (specks 1 mm) greenstone fragmental with 10%	.006	.07	"
				quartz eyes and 10% white quartz hairline fractures at approx			
				45° C.A. and 2 mm stringers of chalcopyrite @ approx 6" intervals			
				total pyrrhotite approx. 4%			
30531	120.0 - 122.5			Greenstone (siliceous) fragmental 15% quartz eyes 2-5 mm approx	.006	.06	"
				10% white quartz hairline fracture fill and stockwork. approx			
				45° C.A. some fine stringers chalcopyrite and pyrite along			
				quartz approx 3% pyrrhotite			
30532	122.5 - 124.5			Grey quartz fine grey sulphides? and 10-15% chalcopyrite 122.5 -	.015	.59	"
		@	124.5	123.0 heavy/from 123.0 124.5 quartz eyes, quartz blebs and 2½"			
				stringer chalcopyrite (massive)			
30533	124.5 - 128.0			Siliceous greenstone stockwork at 30% quartz, with approx 15%			
				chalcopyrite and dark fine sulphides. Stringer chalcopyrite 1½"	.013	.38	"
				127.0 - 127.5 and disseminated 10% to 128.0			
30534	128.0 - 131.0			Siliceous greenstone approx 10% quartz eyes and 10% quartz	.005	.08	"
				stockwork and quartz hairline fracture fill			
30535	131.0 - 135.0			at 45 - 70° C.A. some grey sulphide %? 131.0 - 135.0	.006	.10	"
30536	135.0 - 140.0			More fine sulphides (heavy) siliceous greenstone with 15%	.003	.05	"
			↓	quartz eyes 15% quartz stockwork and fine grained grey sulphides			

Box 6 should be 7

Box 7 should be 8

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DRILL HOLE BH-6 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	Oz/ Ton
				and pyrrhotite approx 15-20% 131.0 - 135.0 and 10-15% 135.0 -			
				140.0			
30537	140.0 - 144.5	@	142.0	Siliceous greenstone quartz stockwork. Approx 10-15% chalcopy.	.007	.22	"
				and grey fine sulphides (heavy) barite?			
			Box 9 should be 8	ERROR MARKING SAYS 149.0 SHOULD BE 143.0			
				NOTE SAYS 149.0 WHERE SHOULD BE 143.0 POSSIBLY 1' MISSING CORE			
				BUT NOT 6'			
	ERROR IN TALLY OR MC USE MEASURED FOOTAGE						
30538	144.5 - 147.0		↑	Greenstone siliceous in part rusty 145.5 - 146.0	.009	.21	"
30539	147.0 - 149.5			Well mineralized pyrrhotite 20% grey sulphide barite? 30% fragmental	.036	.92	"
30540	149.5 - 153.5		Box 9 should be 8	At 150' says 159' (missed run/overcount) as above less	.006	.52	"
				mineralized. Trace jasper 151.0			
30541	153.5 - 158.5			Greenstone fragmental approx 5% quartz eyes and siliceous grey	.002	.01	"
				to buff quartz 10% less mineralized approx 1% chalcopyrite			
				NOTE 142.0 - 162.0 all 20' core in box			
		@	162.0	BOX WOULD TAG OUT @ 170' NOT CORRECT USE MEASURED FOOTAGE			
30542	158.5 - 163.5		Box 10 should be 9	Greenstone siliceous with approx 30% grey and buff quartz	.002	.03	"
30543	163.5 - 168.5			5% quartz eyes (fragmental or breccia zone silicified) trace py	TR	.04	"
30544	168.5 - 173.5			and chalcopyrite	.002	.01	"

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DRILL HOLE BH-6 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	Oz/ Ton
30545	173.5 - 175.5			as above trace chalcopyrite	TR	.01	"
30546	175.5 - 177.0			as above trace chalcopyrite	.002	.03	"
30547	177.0 - 178.5			Blebs and stringers of massive chalcopyrite. Total 60%	.002	.22	"
			Box 10 should be 9	chalcopyrite in siliceous greenstone			
30548	178.5 - 183.5	@	182.0	Greenstone, siliceous with 10% quartz eyes 1-3 mm approx 3%	.004	TR	"
				chalcopyrite to 5% chalcopyrite in stringers			
30549	183.5 - 188.5	@	182.0	Siliceous greenstone breccia stockwork or fragmental with	.001	.01	"
30550	188.5 - 193.5			stringers and patches of chalcopyrite approx 3-5% total.	.002	.02	"
30551	193.5 - 198.5			Fracturing at 30° C.A. some chalcopyrite stringers along	.002	.03	"
			Box 11 should be 10	fractures. Quartz eyes approx 2 mm - 6 mm up to 5% total.			
				193.5 - 198.5 10% chalcopyrite			
30552	198.5 - 203.5	@	202.0	some fracturing @ 10° C.A. approx 10% quartz eyes in siliceous	TR	.12	"
				greenstone and approx 10% mafic eyes (phenocrysts) only trace cpy			
30553	203.5 - 208.5			Siliceous quartz-eye greenstone fragmental	.001	TR	"
30554	208.5 - 213.5			approx 5% quartz eyes approx 10% quartz stringers and hairline	.001	TR	"
30555	213.5 - 218.5		Box 12 should be 11	fracture fine (random) and disseminated chalcopyrite stringers	.001	.07	"
				approx +3% chalcopyrite. Some fracturing			
30556	218.5 - 222.0	@	222.0	at 30° C.A. approx 9" intervals	.003	.03	"
30557	222.0 - 226.5			As above siliceous greenstone approx 1% chalcopyrite	.002	.03	"

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DRILL HOLE BH-6 DEPTH _____ DOWN TIME _____

SAMPLE NUMBER	INTERVAL	FORM	ALT.	DESCRIPTION	ASSAYS Au	Ag	Oz/Ton
30558	226.5 - 229.0		Box 14 should be 13	1-2" stringer massive chalcopyrite approx 15° C.A. and quartz	.005	.27	"
				stringer with possible other sulphides 208.0 - 229.0. Also			
				4" ground core			
30559	229.0 - 234.0			Greenstone less silicified, more epidote/quartz filling approx	.006	.03	"
30560	234.0 - 239.0	@	242.0	15% fractures approx 40° C.A. only trace sulphides	.002	TR	"
30561	239.0 - 242.0			First Jasper Group - approx 5% red jasper	NIL	0.3	ppb ppm
30562	242.0 - 247.0		Box 14	More epidote and trace pyrite only	NIL	0.2	ppb ppm
30563	247.0 - 252.0			First Jasper Group approx 10% jasper,	NIL	0.1	ppb ppm
N/S	252.0 - 259.0		Box 15 should be	quartz epidote 20% chlorite interval is devoid sulphides and not			
				sampled. Some fine hairline quartz fractures approx 3% and			
				minor purplish quartz (amethyst)			
30564	262.0 - 265.0		262.0	Chloritic with approx 2% large 4 mm pyrite crystals (interval	15	0.1	ppb ppm
				measured 262.0 is marked 259.0)			
N/S	265.0 - 279.0			As above approx 10 - 15% red jasper and 15% epidote stockwork			
				Dark colour and dense hard drilling. Not sampled on this hole			
	279.0			T.D. at 279.0 T.D. may be out of adjustment (off tally) but			
				not off by much, adjusted up hole .			

APPENDIX E

HISTORICAL DATA

CUMBERLAND

This group, sometimes referred to as the Daly group, consists of the Cumberland, Silver Pine, Middlesex, Xyphis, and Ougma Crown-granted claims and is owned by George E. Olmstead, Madison and Walnut streets, Danville, Ill. The property is situated on the Mount Madge ridge-slope to the south side of Sulphurets creek, about 2 miles from its mouth. The main showings are at elevations of 1,200 and 1,350 feet. Densely timbered and rugged slopes rise to the crest of the ridge, which is about 5,500 feet in elevation. The ridge-crest continues easterly for about 2 miles and then rises abruptly to the precipitous triangular peak of Mount Madge, the elevation of which is approximately 7,500 feet.

The property is reached by trail to the mouth of Sulphurets creek. The old trails that once extended up the mountain-slope to the property are now so densely overgrown that the easiest route through the "bush" is followed.

The property was staked about 1808 by H.W. Ketchum, who later in association with a man named Daly and with Ceperley, Rounsefell & Company, of which E. Olmsted was secretary. During the subsequent two years some development-work was carried out on the property and in 1903 the construction of a wagon-road from Burroughs bay was started. The attempt to transport machinery to the property failed and operations ceased. In 1931 the group was purchased by the present owner at a tax sale, but no further work has been done. At an elevation of 1,400 feet and about 300 feet westerly from the upper adit the decayed remains of a bunk-house and assay office overgrown by dense underbrush may be seen.

The rocks of the locality include argillites and dense andesitic tuffs and lavas intruded by several light-coloured siliceous dykes and lamprophyre dykes. The mineral deposits occur close to the contacts of the sediments and volcanics and have been developed by two short adits. The mineral deposits include two types: -

(1.) A sheared fissure-vein mineralized with quartz, calcite, barite, pyrite, galena, sphalerite, stibnite, tetrahedrite (grey copper), and argentite. The values are mainly in silver.

(2.) A quartz replacement-zone mineralized mainly with pyrite, pyrrhotite, chalcopyrite, sphalerite, and galena, and carrying appreciable gold values.

At an elevation of 1,200 feet a sheared and brecciated zone intersected by a lamprophyre dyke occurs in volcanics. The zone strikes north 39 degrees west, dips steeply north-easterly, and contains small and irregular lenses and stringers of quartz, barite, and calcite. With the exception of some pyrite, the zone is practically barren of sulphide mineralization where exposed. On the north side of the dyke an adit, timbered for 20 feet from the portal, has been driven for 51 feet in a direction south 39 degrees east. An irregular quartz vein up to 10 inches in width, also some barren quartz and calcite patches and stringers, are seen in this adit between the timbering and the face. The latter is in crushed rock with a few horizontal seams of calcite. A slip striking north and dipping a few degrees east crosses the working about 15 feet from the face. The presence in a

near-by small dump of cobbed vein material of quartz, calcite, and barite gangue well mineralized with pyrite, galena, sphalerite, tetrahedrite (grey copper), stibnite, and some argentite indicates that some mineralization occurred in this working. The location of this mineralization may now be obscured by the timbering. A grab sample taken from the dump assayed: Gold, 0.02 oz; silver, 104.6 oz per ton; copper, 0.5 per cent; lead, 8 per cent; zinc, 4 per cent. A reported dump of 20 tons of similar mineralization prepared for shipment could not be located.

At an elevation of 1,350 feet, several hundred feet north-easterly from this showing, a zone containing quartz veins of the replacement-type over a width of 20 to 30 feet outcrops up the face of a bluff which slopes at 70 degrees to the canyon of Sulphurets creek 500 feet below. The rusty outcrop can be plainly traced down the bluff-face for about 150 feet and is a prominent feature of the landscape when viewed from the north side of Sulphurets creek. The zone, striking north 15 degrees west and dipping 70 degrees east, occurs in a dense, highly altered and generally silicified volcanic rock. At the top of the bluff a deep open-cut continued as an adit follows the foot-wall of the zone for 30 feet and then crosscuts it for 21 feet in a direction of south 64 degrees east. In this working veinlets and replacement-lenses of quartz are accompanied by stringers, patches and disseminations of chalcopyrite, pyrrhotite, pyrite, sphalerite, and galena. A representative sample taken from a dump of about 15 tons at the portal of the adit assayed: Gold, 0.26 oz. per ton; silver, 2.4 oz. per ton; copper, 0.3 per cent.; lead, 3 per cent.; zinc, 10 per cent.

REPORT OF THE MINISTER OF MINES, 1906

SULPHIDE CREEK

Recent discoveries have been made on this creek near its mouth, and consist of two veins which have been developed by several short drifts and open cuts. One of the veins outcrops along a narrow gulch and has been traced about one thousand feet up the gulch. It strikes usually N. 25° W., dips 30°-60° N.E. and varies in width from 2 to 8 inches. The vein minerals are chiefly tetrahedrite (gray copper) pyrite, sphalerite, galena and native silver; near the surface they are usually altered and enveloped in a soft ferruginous matrix of weathering products. The native silver is a product of the superficial alteration of gray copper. About 100 tons of ore are reported to have been taken from this vein and to have given high assay returns, particularly in silver. The country rock consists of altered limestone and breccia with some quartzite and slate, cut by intrusives of several types. The second vein outcrops a short distance south of the first vein, and is exposed along the face of a steep cliff where it is easily recognized by its brown oxidized coating. At the surface it appears to be 20 to 30 feet wide and is heavily mineralized in spots with pyrite, fine galena (steel galena) and occassional sphalerite and chalcopyrite. Native gold is said to have been observed in the oxidized elevation above sea-level. The vein shows distinct banding and strikes N 5° W. with dip 80° to 85° E. A fine-grained basic dyke is exposed along the west side of the tunnel. On both these veins the development work which has been accomplished is not sufficient to permit definite statements in regard to their future. The indications, however, appear sufficiently favourable to warrant the test which the company plans to give the property in the near future.