LONGYEAR CANADA INC.

INVOICE SUMMARY SHEET

-1980-

Invoice No.	Period Covered	Amount
8374	June 1 - 30	$138,653.87
8540	July 1 - 15	79,622.32
8541	July 16-30	70,270.40
8697	July 31-Aug 24	123,380.16
8698	Aug 25-30	35,692.50
8908	Aug 31-Sept 23	145,226.59
8921	Sept 23-Sept 30	45,788.32
9076	Oct 1 -Oct 12	45,685.80
9077	October	6,964.23
		$691,284.19

Total Footage Drilled: 16,251 feet.

Direct Cost per Foot: $42.54



090712

090712

Longyear

Longyear Canada Inc.
CONTRACT DRILLING DIVISION
721 Aldford Avenue
Annacis Island, New Westminster, B.C. V3M 5P5
Telephone: 604-524-2511
Telex: 43-51280

Invoice No. 8374
Cust. No. 6058
Job No. 6279
Dest. 073

Cordilleran Engineering,
1418 Marine Building,
355 Burrard Street,
Vancouver, British Columbia
V6C 2G8

Cordilleran MacPass
Invoice date: July 9, 1980
for June 1980

To: Invoice for diamond drilling performed on Jason Property, Yukon during period June 01-30, 1980 per agreement dated April 10,1980.

Hole No.	Size	From	To	Total	Rate	Amount
OJV80-53 (55°)	Overburden	Ø	50	50	30.25	1,512.50
	Overburden	50	100	50	35.00	1,750.00
	Overburden	100	111	11	35.00	385.00
	NQ Wireline	111	500	389	24.75	9,627.75
	NQ Wireline	500	1000	500	27.75	13,875.00
	NQ Wireline	1000	1015	15	31.90	478.50
OJV80-55 (65°)	Overburden	Ø	50	50	30.25	1,512.50
	Overburden	50	78	28	35.00	980.00
	NQ Wireline	78	500	422	24.75	10,444.50
	NQ Wireline	500	797	297	27.75	8,241.75
OJV80-56 (70°)	Overburden	Ø	50	50	30.25	1,512.50
	Overburden	50	76	26	35.00	910.00
	HQ Wireline	76	77.5	1.5	28.90	43.35
OJV80-56A(70°)	Overburden	Ø	50	50	30.25	1,512.50
	Overburden	50	62	12	35.00	420.00
	HQ Wireline	62	727	665	28.90	19,218.50
OJV80-54 (65°)	Overburden	Ø	50	50	30.25	1,512.50
	Overburden	50	70	20	35.00	700.00
	NQ Wireline	70	500	430	24.75	10,642.50
	NQ Wireline	500	1000	500	27.75	13,875.00
	NQ Wireline	1000	1234	234	31.90	7,464.60
				3850		106,618.95

Mobilization
Lump sum 9,900.00 x 75% 7,425.00

Tractor and Operator
June 01-30, 1980 6,100.00

Longyear Canada Inc.
CONTRACT DRILLING DIVISION
721 Aldford Avenue
Annacis Island, New Westminster, B.C. V3M 5P5
Telephone: 604-524-2511
Telex: 43-51280

Longyear

Cordilleran Engineering
Invoice NO. 8374
2...

Land Vehicles			
June 01-30, 1980			875.00
Client Charges (attached)			
MacMillan Services		425.60	
Travel Headquarters		60.00	
			485.60
Moves			
Move In To Hole OJV80-53			
13 hours @ 65.00	845.00		
58 hours @ 23.00	1,334.00		
		2,179.00	
Hole OJV80-53 to OJV80-55			
23 hours @ 65.00		1,495.00	
Hole OJV80-55 to OJV80-56			
25 1/2 hours @ 65.00		1,657.50	
Hole OJV80-56 to OJV80-56A			
1 1/2 hours @ 65.00		97.50	
Move In To Hole OJV80-54			
35 hours @ 65.00	2,275.00		
39 hours @ 23.00	897.00		
		3,172.00	
			8,601.00
Client Testing and Standby			
Hole OJV80-53			
7 hours @ 65.00	455.00		
2 hours @ 62.50	125.00		
		580.00	
Hole OJV80-55			
6 hours @ 65.00		390.00	
Hole OJV80-56A			
2 hours @ 65.00	130.00		
1 hour	62.50		
		192.50	

...gyear Canada Inc.
CONTRACT DRILLING DIVISION
721 Aldford Avenue
Annacis Island, New Westminster, B.C. V3M 5P5
Telephone: 604-524-2511
Telex: 43-51280

Cordilleran Engineering
Invoice No. 8374
3...

Hole OJV80-54				
16 hours @ 65.00			1,04 .00	
				2,202.50
Reaming				
Hole OJV80-55				
2 hours @ 65.00			130.00	
Hole OJV80-56				
2 hours @ 65.00		130.00		
1 HQ 5 foot corebarrel	1,087.00			
2 HW 10 foot casing @ 180.00	360.00			
1 HQ Bit GR30644	650.00			
1 HQ Bit GR30647	650.00			
1 HQ Bit GR30632	650.00			
1 HW Shoe E3879	181.00			
1 HW Shoe E3877	181.00			
	3,759.00			
Plus 12%	~~451.08~~			
		~~4,210.08~~		
			~~4,340.08~~	
Hole OJV80-56A				
3 1/2 hours @ 65.00			227.50	
				~~4,697.68~~
Left in Hole				
Hole OJV80-53				
3 NW 10' casing @ 112.15		336.45		
1 NW Shoe E4330		119.00		
		455.45		
Plus 12%		54.65		
			510.10	
Hole OJV80-55				
8 NW 10' casing @ 112.15		897.20		
1 NW Shoe E3488		119.00		
		1,016.20		
Plus 12%		121.94		
			1,138.14	
				1,648.24
			$	~~138,653.87~~

TERMS -- NET 30 DAYS. INTEREST CHARGED AT 21% PER ANNUM ON OVERDUE ACCOUNTS

Longyear

Longyear Canada Inc.
CONTRACT DRILLING DIVISION
721 Aldford Avenue
Annacis Island, New Westminster, B.C. V3M 5P5
Telephone: 604-524-2511
Telex: 43-51280

Invoice No. 8540
Cust. No. 6058
Job No. 6279
Dest. 073

Cordilleran Engineering,
1418 Marine Building,
355 Burrard Street,
Vancouver, British Columbia
V6C 2G8

Cordilleran MacPass
Invoice date: July 28, 1980
for July 1980

To: Invoice for diamond drilling performed on Jason Property, Yukon during period July 01-15, 1980 per agreement dated April 10, 1980.

Hole No.	Size	From	To	Total	Rate	Amount
OJV80-56A (70°)	HQ Wireline	727	1000	273	28.90	7,889.70
	HQ Wireline	1000	1192	192	33.25	6,384.00
	NQ Wireline	1192	1500	308	27.75	8,547.00
	NQ Wireline	1500	1888	388	31.90	12,377.20
OJV80-54 (65°)	NQ Wireline	1234	1269	35	31.90	1,116.50
OJV80-57 (50°)	Overburden	0	50	50	30.25	1,512.50
	Overburden	50	59	9	35.00	315.00
OJV80-57A (50°)	Overburden	0	50	50	30.25	1,512.50
	Overburden	50	60	10	35.00	350.00
	NQ Wireline	60	500	440	24.75	10,890.00
	NQ Wireline	500	598	98	27.75	2,719.50
OJV80-58 (70°)	Overburden	0	40	40	30.25	1,210.00
	NQ Wireline	40	404	364	24.75	9,009.00
				2257		63,832.90

Tractor and Operator			
July 01-15, 1980	15/31 month x 6,100.00		2,951.61
Land Vehicles			
July 01-15, 1980	15/31 month x 875.00		423.39
Client Charges			
Travel Headquarters - attached			240.00
Client Testing			
Hole JJV80-56A	6 hours @ 65.00	390.00	
Hole OJV80-54	2 hours @ 65.00	130.00	
Hole OJV80-57A	3 hours @ 65.00	195.00	
			715.00

Longyear Canada Inc.
CONTRACT DRILLING DIVISION
221 [illegible] Avenue
[illegible]
Tele[illegible]

Longyear

Cordilleran Engineering
Invoice No. 8540
2...

Reaming
Hole OJV80-56A
11 hours @ 65.00 — 715.00

Hole OJV80-56
Prorated diamond recovery re invoice 8347-see later invoice — -

Hole OJV80-57A
30 1/2 hours @ 65.00 — 1,982.50
1 NQ Bit Y79659 — ~~698.50~~
1 NW Shoe E2272 — ~~126.00~~
1 NW Shoe E4899 — 126.00
~~950.50~~
Plus 12% — ~~114.06~~
~~1,064.56~~
~~3,047.06~~
~~3,762.06~~

Move Between Holes
Hole OJV80-54 to OJV80-57 — 27 1/2 hours @ 65.00 — 1,787.50
Hole OJV80-57 to OJV80-57A — 3 1/2 hours @ 65.00 — 227.50
Hole OJV80-57A to OJV80-58 — 46 1/2 hours @ 65.00 — 3,022.50
5,037.50

Left in Holes
Hole OJV80-54
2 NW 10 foot casing @ 112.15 — 224.30
1 NW Shoe E4337 — 126.00
1 N grout plug — 106.30
456.60
Plus 12% — 54.79
511.39

Hole OJV80-57
1 5 5/8" tricone bit — 299.00
1 tricone drill collar — ~~383.76~~
4 10 foot API rods @ 308.00 — ~~1,235.52~~
~~1,918.28~~
Plus 12% — ~~230.19~~
2,148.47
~~2,659.06~~

$ ~~79,822.32~~

TERMS — NET 30 DAYS — INTEREST CHARGED AT 21% PER ANNUM ON OVERDUE ACCOUNTS

Longyear

Longyear Canada Inc.
CONTRACT DRILLING DIVISION
721 Aldford Avenue
Annacis Island, New Westminster, B.C. V3M 5P5
Telephone: 604-524-2511
Telex: 43-51280

Invoice No. 8541
Cust. No. 6058
Job No. 6279
Dest. 073

Cordilleran Engineering,
1418 Marine Building,
355 Burrard Street,
Vancouver, British Columbia
V6C 2G8

Cordilleran MacPass
Invoice date: August 13, 1980
for July 1980

To: Invoice for diamond drilling performed on Jason Property, Yukon during period July 16-30, 1980 per agreement dated April 10, 1980.

Hole No.	Size	From	To	Total	Rate	Amount
OJV80-56A (70°)	NQ Wireline	1888	2000	112	31.90	3,572.80
		2000	2124	124	36.65	4,544.60
OJV80-56B (70°)	NQ Wireline	1285	1500	215	27.75	5,966.25
		1500	1957	457	31.90	14,578.30
OJV80-58 (70°)	NQ Wireline	404	561	157	24.75	3,885.75
OJV80-59 (50°)	Overburden	Ø	50	50	30.25	1,512.50
	NQ Wireline	50	500	450	24.75	11,137.50
OJV80-60 (70°)	Overburden	Ø	50	50	30.25	1,512.50
		50	84	34	35.00	1,190.00
				1649		47,900.20

Mini-Deve Equipment
See later invoice -

Tractor and Operator
July 16-31, 1980 16/31 month x 6,100.00 3,148.39

Land Vehicles
July 16-31, 1980 16/31 month x 875.00 451.61

Drilling Mud and Additives - attached
Poly-Drill Products 725.00
Plus 12% 87.00
812.00

Wedging
Hole OJV80-56B
26 hours @ 65.00 1,690.00
1 NQ expanding plug 412.00
1 NQ directional wedge 1,606.34
1 NQ Wedge bit T8165* 1,187.48
1 NQ Shell E1983* 155.00
3,360.82
Plus 12% 403.30
3,764.12

TERMS – NET 30 DAYS – INTEREST CHARGED AT 21% PER ANNUM ON OVERDUE ACCOUNTS 5,454.12

Longyear Canada Inc.
CONTRACT DRILLING DIVISION
721 Aldford Avenue
Annacis Island, New Westminster, B.C. V3M 5P5
Telephone: 604-524-2511
Telex: 43-51280

Longyear

Cordilleran Engineering
Invoice No. 8541
2...

*Prorated recovery upon cutout.

~~Reaming~~
Hole OJV80-56B
~~7~~ hours @ 65.00 ~~455.00~~

~~Hole~~ OJV80-58
5 hours @ 65.00 325.00

Hole OJV80-59
~~87 1/2~~ hours @ 65.00 ~~5,687.50~~
3 NW Econo Shoes E2211,
E1735, E3273 @ 126.00 378.00
4 4 1/4" tricones @ 159.20 ~~636.80~~
~~1,014.80~~
Plus 12% 121.78
~~1,136.58~~

~~6,824.08~~

Hole OJV80-56
Prorated recovery re items on invoice 8347 - see later invoice -

Hole OJV80-57A
Prorated recovery re items Y79659, E2272, E4899-see later invoice -

~~7,604.08~~

Client Testing

Hole OJV80-56A	18 1/2 hours @ 65.00	1,202.50	
Hole OJV80-56B	7 1/2 hours @ 65.00	487.50	
Hole OJV80-58	2 hours @ 65.00	130.00	
Hole OJV80-59	7 hours @ 65.00	455.00	
			2,275.00

Move Between Holes

Hole OJV80-58 to OJV80-59	25 hours @ 65.00	1,625.00	
Hole OJV80-59 to OJV80-60	3 hours @ 65.00	195.00	
			1,820.00

Client Work
12 hours @ 23.00 276.00

Travel Time (Client Portion)

Hole OJV80-59	21 hours @ 23.00	483.00	
Hole OJV80-60	2 hours @ 23.00	46.00	
			529.00

$ ~~10,270.40~~

TERMS—NET 30 DAYS—INTEREST CHARGED AT 21% PER ANNUM ON OVERDUE ACCOUNTS

Longyear

Longyear Canada Inc.
CONTRACT DRILLING DIVISION
721 Aldford Avenue
Annacis Island, New Westminster, B C. V3M 5P5
Telephone: 604-524-2511
Telex: 43-51280

Invoice No. 8697
Cust. No. 6058
Job No. 6279
Dest. 073

Cordilleran Engineering,
1418 Marine Building,
355 Burrard Street,
Vancouver, British Columbia
V6C 2G8

Cordilleran MacPass
Invoice date: September 4, 1980
for August 1980

To: Invoice for diamond drilling performed on Jason Property, Yukon during period July 31-August 24, 1980 per agreement dated April 10, 1980, and letter dated August 05, 1980.

Hole No.	Size	From	To	Total	Rate	Amount
OJV80-56B (70°)	NQ Wireline	1957	2000	43	31.90	1,371.70
		2000	2230	230	36.65	8,429.50
OJV80-61 (77°)	Overburden	Ø	35	35	30.25	1,058.75
	HQ Wireline	35	667	632	28.90	18,264.80
OJV80-63 (70°)	Overburden	Ø	50	50	30.25	1,512.50
	Overburden	50	62	12	35.00	420.00
	HQ Wireline	62	361	299	28.90	8,641.10
OJV80-60 (70°)	HQ Wireline	84	491	407	28.90	11,762.30
	NQ Wireline	491	795	304	24.75	7,524.00
OJV80-62 (50°)	Overburden	Ø	50	50	30.25	1,512.50
	Overburden	50	58	8	35.00	280.00
	HQ Wireline	58	445	387	30.25	11,706.75
OJV80-64 (60°)	Overburden	Ø	50	50	30.25	1,512.50
		50	100	50	35.00	1,750.00
		100	106	6	35.00	210.00
				2563		75,956.40

Mini-Deve Equipment (attached)			
West Coast Drilling Supplies Ltd.		1,042.96	
Wheel Trueing Tool Company		3,962.30	
Longyear Canada Inc.		3,367.10	
		8,372.36	
	Plus 12%	1,004.68	
			9,377.04
Drilling Mud and Additives (attached)			
Frontier Freightlines Ltd.		15.25	
	Plus 12%	1.83	
			17.08

Longyear Canada Inc.
CONTRACT DRILLING DIVISION
721 Aldford Avenue
Annacis Island, New Westminster, B.C. V3M 5P5
Telephone: 604-524-2511
Telex: 43-51280

Cordilleran Engineering
Invoice No. 8697
2...

Tractor and Operator				
August 01-24, 1980	24/31 month x 6,100.00			4,722.58
Land Vehicles				
August 01-24, 1980	24/31 month x 875.00			677.42
Wedging				
Hole OJV80-56B				
Diamond recovery re T8165 and E1983 - see later invoice				-
Reaming Casing and Cave, Hole Reduction				
Hole OJV80-56B				
53 1/2 hours @ 65.00		3,477.50		
29 hours @ 23.00		667.00		
1 NQ Bit GR34632	415.00			
1 NQ Bit Y97658	698.50			
77 HQ 10 foot rods @ 120.35	9,266.95			
	10,380.45			
Plus 12%	1,245.65			
		11,626.10		
			15,770.60	
Hole OJV80-61				
1 hour		65.00		
3 HW 10 foot casing @ 180.00	540.00			
1 HW Shoe E2681	203.00			
	743.00			
Plus 12%	89.16			
		832.16		
			897.16	
Hole OJV80-63				
1 hour			65.00	
Hole OJV80-60				
31 1/2 hours @ 65.00		2,047.50		
9 hours @ 23.00		207.00		
1 NQ 10 foot outer tube	131.55			
1 NW Shoe E1735 (charged prev.)	-			
1 NQ Shell E712	155.00			
1 Back End Reamer E3682	411.15			
	697.70			
Plus 12%	83.72			

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Longyear

Cordilleran Engineering
Invoice No. 8697
3...

Hole OJV80-60 cont'd			
		781.42	
			3,035.42
Hole OJV80-62			
36 1/2 hours @ 65.00		2,372.50	
1 HQ Bit GR31443	650.00		
1 HQ Bit GR31441	650.00		
1 HQ Bit GR29900	650.00		
1 HQ Shell E2527	233.00		
Prorated recovery-see later invoice	-		
	2,183.00		
Plus 12%	261.96		
		2,444.96	
			4,817.46
Hole OJV80-56			
Prorated recoveries - see later invoice			-
Hole OJV80-57A			
Prorated recoveries - see later invoice			-
			24,586.14
Client Testing			
Hole OJV80-56B	4 hours @ 65.00		260.00
Hole OJV80-61	15 hours @ 65.00		975.00
Hole OJV80-60	6 hours @ 65.00		390.00
Hole OJV80-62	2 hours @ 65.00		130.00
			1,755.00
Move Between Holes			
Hole OJV80-56B to OJV80-61			
17 1/2 hours @ 65.00		1,137.50	
17 1/2 hours @ 23.00		402.50	
			1,540.00
Hole OJV80-61 to OJV80-63			
31 hours @ 65.00			2,015.00
Hole OJV80-60 to OJV80-62			
11 hours @ 65.00		715.00	
11 hours @ 23.00		253.00	
			968.00

Longyear Canada Inc.
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Annacis Island, New Westminster, B.C. V3M 5P5
Telephone: 604-524-2511
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Longyear

Cordilleran Engineering
Invoice No. 8697
4...

Hole OJV80-62 to OJV80-64			
10 hours @ 65.00		650.00	
			5,173.00
Travel Time (Client Portion)			
Hole OJV80-60	25 hours @ 23.00	575.00	
Hole OJV80-62	20 1/2 hours @ 23.00	471.50	
Hole OJV80-64	3 hours @ 23.00	69.00	
			1,115.50
		$	123,380.16

Longyear

Longyear Canada Inc.
CONTRACT DRILLING DIVISION
721 Aldford Avenue
Annacis Island, New Westminster, B.C. V3M 5P5
Telephone: 604-524-2511
Telex: 43-51280

Invoice No. 8698
Cust. No. 6058
Job No. 6279
Dest. 073

ORIGINAL

Cordilleran Engineering,
1418 Marine Building,
355 Burrard Street,
Vancouver, British Columbia
V6C 2G8

Cordilleran Mac Pass
Invoice date: September 12, 1980
for August 1980

To: Invoice for diamond drilling performed on Jason property, Yukon during period August 25-30, 1980 per agreement dated April 10, 1980.

Hole No.	Size	From	To	Total	Rate	Amount
OJV80-63 (70°)	HQ Wireline	361	~~780~~	~~339~~	28.90	~~9,797.10~~
	NQ Wireline	700	~~826~~	~~126~~	24.75	~~3,118.50~~
	NQ Wireline	826	835	9	(see wedging)	-
OJV80-64 (50°)	HQ Wireline	106	500	394	30.25	11,918.50
		500	666	166	33.90	5,627.40
				1034		30,461.50

Mini Deve Equipment
Shipping charges - see later invoice -

Tractor and Operator
August 25-31, 1980 7/31 month x 6,100.00 1,377.42

Land Vehicle
August 25-31, 1980 7/31 month x 875.00 197.58

Wedging
Hole OJV80-63 at 826 feet
17 1/2 hours @ 65.00 1,137.50
Supplies - see later invoice -
1,137.50

Hole OJV80-56B
Diamond recovery re T8165 & E1983 - see later invoice -
1,137.50

Reaming Casing and Cave, Hole Reduction
Hole OJV80-63
13 1/2 hours @ 65.00 877.50

Hole OJV80-62
Prorated recoveries - see later invoice -

Hole OJV80-56
Prorated recoveries - see later invoice -

Longyear Canada Inc.
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721 Aldford Avenue
Annacis Island, New Westminster, B.C. V3M 5P5
Telephone: 604-524-2511
Telex: 43-51280

Cordilleran Engineering
Invoice No. 8698
2...

Hole OJV80-57A Prorated recoveries - see later invoice		-	
Hole OJV80-64 2 hours @ 65.00		130.00	1,007.50
Client Testing Hole OJV80-63	19 hours @ 65.00		1,235.00
Travel Time Hole OJV80-64	12 hours @ 23.00		276.00
		$	35,692.50

CORDILLERAN
Client
Project
213
Extensions
Voucher No.
Approved
Date Paid

Longyear

Longyear Canada Inc.
CONTRACT DRILLING DIVISION
721 Aldford Avenue
Annacis Island, New Westminster, B.C. V3M 5P5
Telephone: 604-524-2511
Telex: 43-51280

Invoice No. 8908
Cust. No. 6058
Job No. 6279
Dest. 073

Cordilleran Engineering,
1418 Marine Building,
355 Burrard St.,
Vancouver, British Columbia
V6C 2G8

Cordilleran MacPass
Invoice date: October 14, 1980
for September 1980

To: Invoice for diamond drilling performed on Jason Property, Yukon during period August 31-September 23, 1980 per agreement dated April 10, 1980.

Hole No.	Size	From	To	Total	Rate	Amount
OJV80-63 (70°)	NQ Wireline	835	1000	165	24.75	4,083.75
		1000	1181	181	27.75	5,022.75
		1181	1191	10	Hourly Rate	-
		1191	1306	115	27.75	3,191.25
		1306	1311	5	Hourly Rate	-
		1311	1500	189	27.75	5,244.75
		1500	1941	441	31.90	14,067.90
OJV80-63A (70°)	NQ Wireline	816	899	83	24.75	2,054.25
		899	905	6	Hourly Rate	-
		905	1000	95	24.75	2,351.25
		1000	1101	101	27.75	2,802.75
		1101	1107	6	Hourly Rate	-
		1107	1196	89	27.75	2,469.75
OJV80-64 (60°)	HQ Wireline	666	679	13	33.90	440.70
OJV80-65 (71°)	Overburden	Ø	50	50	30.25	1,512.50
	Overburden	50	98	48	35.00	1,680.00
	HQ Wireline	98	781	683	28.90	19,738.70
OJV80-66 (55°)	Overburden	Ø	36	36	30.25	1,089.00
	HQ Wireline	36	500	464	30.25	14,036.00
	HQ Wireline	500	834	334	33.90	11,322.60
	NQ Wireline	834	837	3	27.75	83.25
				3117		91,191.15

Mini-Deve Equipment
Wheel Trueing Tool Company

	1,602.00	
Plus 12%	192.24	
		1,794.24

Longyear Canada Inc.
CONTRACT DRILLING DIVISION
721 Aldford Avenue
Annacis Island, New Westminster, B.C. V3M 5P5
Telephone: 604-524-2511
Telex: 43-51280

Longyear

Cordilleran Engineering
Invoice No. 8908
2...

Drilling Mud and Additives				
Thiessen Equipment Ltd.			514.80	
Valley Bus Ltd.			10.75	
Canadian Freightways			610.46	
			1,136.01	
		Plus 12%	136.32	
				1,272.33
Client Charges				
White Pass Petroleum Services			405.38	
		Plus 12%	48.65	
				454.03
Tractor and Operator				
September 01-30, 1980				6,100.00
Land Vehicle				
September 01-30, 1980				875.00
Demobilization of Equipment				
Lump Sum $9,900.00 x 25% (minimum footage completed)				2,475.00
Wedging				
Hole OJV80-63 @ 1181'				
19 hours @ 65.00		1,235.00		
Wedge Use - Lump sum	400.00			
1 NX Wedge Bit X04325	2,313.10			
1 BX Wedge Bit X11960	2,099.45			
1 NX Wedge Reaming Bit Y04326	919.55			
1 NX Wedge Reaming Shell Y04329	557.70			
1 NX Wedge Reaming Bit Y03861	1,014.75			
Prorated recovery-see later invoice	(-) CR.			
	7,304.55			
Plus 12%	876.55			
		8,181.10		
			9,416.10	
Hole OJV80-63 @ 1306'				
25 hours @ 65.00		1,625.00		
Wedge Use Lump Sum	400.00			
Diamonds-see previous hole	-			
Plus 12%	48.00			

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Cordilleran Engineering
Invoice No. 8908
3...

Hole OJV80-63 cont'd			
		448.00	
			2,073.00
Hole OJV80-63A @ 816'			
19 1/2 hours @ 65.00		1,267.50	
1 NQ Hall Row Wedge	1,606.34		
1 NQ Expanding Plug	412.00		
1 NX Bit T05430	1,206.35		
1 NQ Shell E713	155.00		
Prorated recovery-see later invoice	(-) CR.		
	3,379.69		
Plus 12%	405.56		
		3,785.25	
			5,052.75
Hole OJV80-63A @ 899'			
21 hours @ 65.00		1,365.00	
1 NQ Hall Row Wedge	1,606.34		
Diamonds-see previous hole	-		
Plus 12%	192.76		
		1,799.10	
			3,164.10
Hole OJV80-63A @ 1005'			
15 hours @ 65.00		975.00	
1 NQ Hall Row Wedge	1,606.34		
Diamonds-see previous hole	-		
Plus 12%	192.76		
		1,799.10	
			2,774.10
Hole OJV80-63A @ 1101'			
15 1/2 hours @ 65.00		1,007.50	
1 NQ Hall Row Wedge	1,606.34		
1 NQ Bit GR39128	415.00		
Diamonds-see previous hole	-		
Prorated recovery-see later invoice	(-) CR.		
	2,021.34		
Plus 12%	242.56		
		2,263.90	
			3,271.40

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Cordilleran Engineering
Invoice No. 8908
4...

Hole OJV80-63 @ 826'			
5 hours @ 65.00		325.00	
Wedge Use-Lump Sum	400.00		
1 NX Wedge Bit X03865	2,357.65		
Additional diamonds-see OJV80-63 @ 1181'	-		
Prorated recovery-see later invoice	(-) CR. 2,757.65		
Plus 12%	330.92		
		3,088.57	
			3,413.57
Hole OJV80-56B			
Diamond recovery re T8165 & E1983-see later invoice			(-) CR. 29,165.02
Reaming Casing, Cave, Lost Circulation and Hole Reduction			
Hole OJV80-63			
14 hours @ 65.00			910.00
Hole OJV80-65			
2 hours @ 65.00			130.00
Hole OJV80-66			
16 1/2 hours @ 65.00		1,072.50	
1 NQ Bit Y97662	698.50		
Prorated recovery-see later invoice	(-) CR. 698.50		
Plus 12%	83.82		
		782.32	
			1,854.82
Hole OJV80-62, OJV80-56 and OJV80-57A			
Prorated recoveries-see later invoice			(-) CR. 2,894.82
Client Testing			
Hole OJV80-63 38 1/2 hours @ 65.00			2,502.50
Hole OJV80-63A 3 hours @ 65.00			195.00
Hole OJV80-64 4 hours @ 65.00			260.00
Hole OJV80-65 16 hours @ 65.00			1,040.00
			3,997.50

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Cordilleran Engineering
Invoice No. 8908
5...

Travel Time				
Hole OJV80-65	20 hours @ 23.00		460.00	
Hole OJV80-66	18 hours @ 23.00		414.00	
Hole OJV80-64	1 hour		23.00	
				897.00
Moves				
Hole OJV80-64 to OJV80-65				
29 1/2 hours @ 65.00		1,917.50		
24 hours @ 23.00		552.00		
			2,469.50	
Hole OJV80-65 to OJV80-66				
21 hours @ 65.00		1,365.00		
12 hours @ 23.00		276.00		
			1,641.00	
				4,110.50
			$	145,226.59

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721 Aldford Avenue
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Telephone: 604-524-2511
Telex: 43-51280

Invoice No. 8921
Cust. No. 6058
Job No. 6279
Dest. 073

Cordilleran Engineering,
1418 Marine Building,
355 Burrard St.,
Vancouver, British Columbia
V6C 2G8

Cordilleran MacPass
Invoice date: October 15, 1980
for September 1980

To: Invoice for diamond drilling performed on Jason property, Yukon during period September 23-30, 1980 per agreement dated April 10, 1980.

Hole No.	Size	From	To	Total	Rate	Amount
OJV-80-63A (70°)	NQ Wireline	1196	1246	50	27.75	1,387.50
OJV-80-63B (70°)	NQ Wireline	883	1000	117	24.75	2,895.75
		1000	1120	120	27.75	3,330.00
		1120	1125	5	Hourly Rate	-
		1125	1336	211	27.75	5,855.25
OJV-80-66 (55°)	NQ Wireline	837	1000	163	27.75	4,523.25
		1000	1261	261	31.90	8,325.90
				927		26,317.65

Client Charges
White Pass Petroleum Services 810.76
Plus 12% 97.29
908.05

Freight on Wedge Supplies
Canadian Freightways 137.92
C.P. Air 872.36
1,010.28
Plus 12% 121.23
1,131.51

Wedging
Hole OJV-80-63A
2 hours @ 65.00 130.00

Hole OJV-80-63B @ 883'
16 1/2 hours @ 65.00 1,072.50
1 NQ Hall Row Wedge 1,606.34
Diamonds-see previous holes -
Plus 12% 192.76
1,799.10
2,871.60

TERMS - NET 30 DAYS -- INTEREST CHARGED AT 21% PER ANNUM ON OVERDUE ACCOUNTS

Longyear Canada Inc.
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Cordilleran Engineering
Invoice No. 8921
2...

Hole OJV-80-63B @ 1120'				
11 hours @ 65.00		715.00		
Wedge Use-Lump Sum	400.00			
1 NX Wedge Bit- see later invoice	-			
1 NQ Shell E3941	155.00			
Additional diamonds- see previous holes	-			
Prorated recovery-see later invoice	(-) CR.			
	555.00			
Plus 12%	66.60			
		621.60		
			1,336.60	
Hole OJV-80-63 @ 826', 1181'				
Prorated recoveries-see later invoice			(-) CR.	
Hole OJV-80-63A @ 816', 1101'				
Prorated recoveries-see later invoice			(-) CR.	
Hole OJV-80-56B				
Prorated recoveries-see later invoice			(-) CR.	
				4,338.20
Reaming Casing, Cave and Lost Circulation				
Hole OJV-80-63A				
47 hours @ 65.00			3,055.00	
Hole OJV-80-66				
15 hours @ 65.00		975.00		
1 set of NW casing cutter jaws	156.40			
Plus 12%	18.77			
		175.17		
			1,150.17	
Hole OJV-80-63B				
4 hours @ 65.00			260.00	
Holes OJV-80-56A, -57A, -62, -66				
Prorated recoveries-see later invoice			(-) CR.	
				4,465.17

Longyear

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Telephone: 604-524-2511
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Cordilleran Engineering
Invoice No. 8921
3...

Client Testing				
Hole OJV-80-63B	2 hours @ 65.00		130.00	
Hole OJV-80-66	3 hours @ 65.00		195.00	
				325.00
Travel Time				
Hole OJV-80-66	15 hours @ 23.00			345.00
Moves				
Hole OJV-80-66 to next site				
10 1/2 hours @ 65.00			682.50	
21 hours @ 23.00			483.00	
				1,165.50
Left in Hole				
Hole OJV-80-63A				
36 NQ 10' rods @ 85.15		3,065.40		
1 NQ Bit GR39116		415.00		
1 NQ Bit GR36939		415.00		
1 NQ Shell E3176		155.00		
		4,050.40		
	Plus 12%	486.05		
			4,536.45	
Hole OJV-80-66				
6 HQ 10' rods @ 120.35		722.10		
1 HQ 10' outer tube assembly		409.00		
1 HQ Bit Imp.-Green		650.00		
1 HQ Shell E3169		233.00		
		2,014.10		
	Plus 12%	241.69		
			2,255.79	
				6,792.24
				$ 45,788.32

Longyear

Longyear Canada Inc.
CONTRACT DRILLING DIVISION
721 Aldford Avenue
Annacis Island, New Westminster, B.C. V3M 5P5
Telephone: 604-524-2511
Telex: 43-51280

Invoice No. 9076
Cust. No. 6058
Job No. 6279
Dest. 073

Cordilleran Engineering,
1418 Marine Building,
355 Burrard Street,
Vancouver, British Columbia
V6C 2G8

Cordilleran MacPass
Invoice date: October 23, 1980
for October 1980

To: Invoice for diamond drilling performed on Jason Property, Yukon during period October 01-12, 1980 per agreement dated April 10, 1980.

Hole No.	Size	From	To	Total	Rate	Amount
OJV80-63B						
(70°)	NQ Wireline	1336	1500	164	27.75	4,551.00
		1500	1843	343	31.90	10,941.70
OJV80-67						
(55°)	Overburden	Ø	45	45	30.25	1,361.25
	HQ Wireline	45	322	277	30.25	8,379.25
				829		25,233.20

Wedging
Hole OJV80-63B @ 1356'

17 hours @ 65.00		1,105.00
1 BX Bit L77528-see later invoice	-	
1 BX Bit L78176-see later invoice	-	
Wedge Use-Lump Sum	400.00	
Additional diamonds-see previous holes	-	
Prorated recovery-see later invoice	(-) CR.	
	400.00	
Plus 12%	48.00	
		448.00
		1,553.00

Holes OJV80-63B at 1120', OJV80-63, OJV80-63A, OJV80-56B

Prorated diamond recoveries-see later invoice		-
		1,553.00

Reaming Casing, Cave and Lost Circulation
Hole OJV80-56

Prorated recovery	(86.09) CR.	
Plus 12%	(10.33) CR.	
		(96.42) CR.

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Cordilleran Engineering
Invoice No. 9076
2...

Hole OJV80-56B			
Prorated recovery		(13.58) CR.	
	Plus 12%	(1.63) CR.	
			(15.21) CR.
Hole OJV80-60			
Prorated recovery		(105.40) CR.	
	Plus 12%	(12.65) CR.	
			(118.05) CR.
Hole OJV80-62			
Prorated recovery		(257.45) CR.	
	Plus 12%	(30.89) CR.	
			(288.34) CR.
Hole OJV80-66			
Prorated recovery-see later invoice			-
Hole OJV80-59			
Prorated recovery - nil			-
Hole OJV80-57A			
Prorated recovery - nil			-
Hole OJV80-63B			
16 1/2 hours @ 65.00		1,072.50	
1 NQ Bit Y97668	698.50		
1 NQ Bit GR39129	415.00		
Prorated recovery-see later invoice	(-) CR.		
	1,113.50		
Plus 12%	133.62		
		1,247.12	
			2,319.62
Hole OJV80-67			
6 hours @ 65.00		390.00	
1 HQ Bit GR33032	650.00		
Prorated recovery-see later invoice	(-) CR.		
Plus 12%	78.00		
		728.00	
			1,118.00
			2,919.60

Longyear

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Cordilleran Engineering
Invoice No. 9076
3...

Tractor Operator				
October 01-12, 1980	12/31 x 6,100.00			2,361.29
Land Vehicle				
October 01-12, 1980	12/31 x 875.00			338.71
Client Testing				
Hole OJV80-63B	16 1/2 hours @ 65.00		1,072.50	
Hole OJV80-67	2 hours @ 65.00		130.00	
				1,202.50
Travel Time				
Hole OJV80-67	15 hours @ 23.00			345.00
Moves				
Out From Hole OJV80-63B				
46 hours @ 65.00		2,990.00		
79 hours @ 23.00		1,817.00		
			4,807.00	
Hole OJV80-66 to OJV80-67				
21 hours @ 65.00		1,365.00		
28 hours @ 23.00		644.00		
			2,009.00	
Out From Hole OJV80-67				
44 1/2 hours @ 65.00		2,892.50		
88 hours @ 23.00		2,024.00		
			4,916.50	
				11,732.50
			$	45,685.80

Longyear

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721 Aldford Avenue
Annacis Island, New Westminster, B.C. V3M 5P5
Telephone: 604-524-2511
Telex: 43-51280

Invoice No. 9077
Cust. No. 6058
Job No. 6279
Dest. 073

Cordilleran Engineering
1418 Marine Building,
355 Burrard Street
Vancouver, British Columbia
V6C 2G8

Cordilleran MacPass
Invoice date: November 10, 1980
for October, 1980

To: Invoice regarding diamond drilling performed on Jason Property, Yukon, per agreement dated April 10, 1980

Wedging

Hole OJV.80-63B at 1356'

1 NX Bit L.77528	1,895.00	
1 NX Bit L.78176	1,965.00	
Prorated recovery - see later invoice	-	
	3,860.00	
Plus 12%	463.20	
		4,323.20

Hole OJV.80-63B at 1120'

Prorated recovery re E.3941	(48.05) cr.	
Plus 12%	(5.77) cr.	
		(53.82) cr.

Hole OJV.80-63 at 826'

Prorated recovery re X.03865 - see later invoice -

Hole OJV.80-63A at 1101'

Prorated recovery re GR.39128 - nil -

Hole OJV.80-63A at 816'

Prorated recovery re E.713 & T05430 - see later invoice -

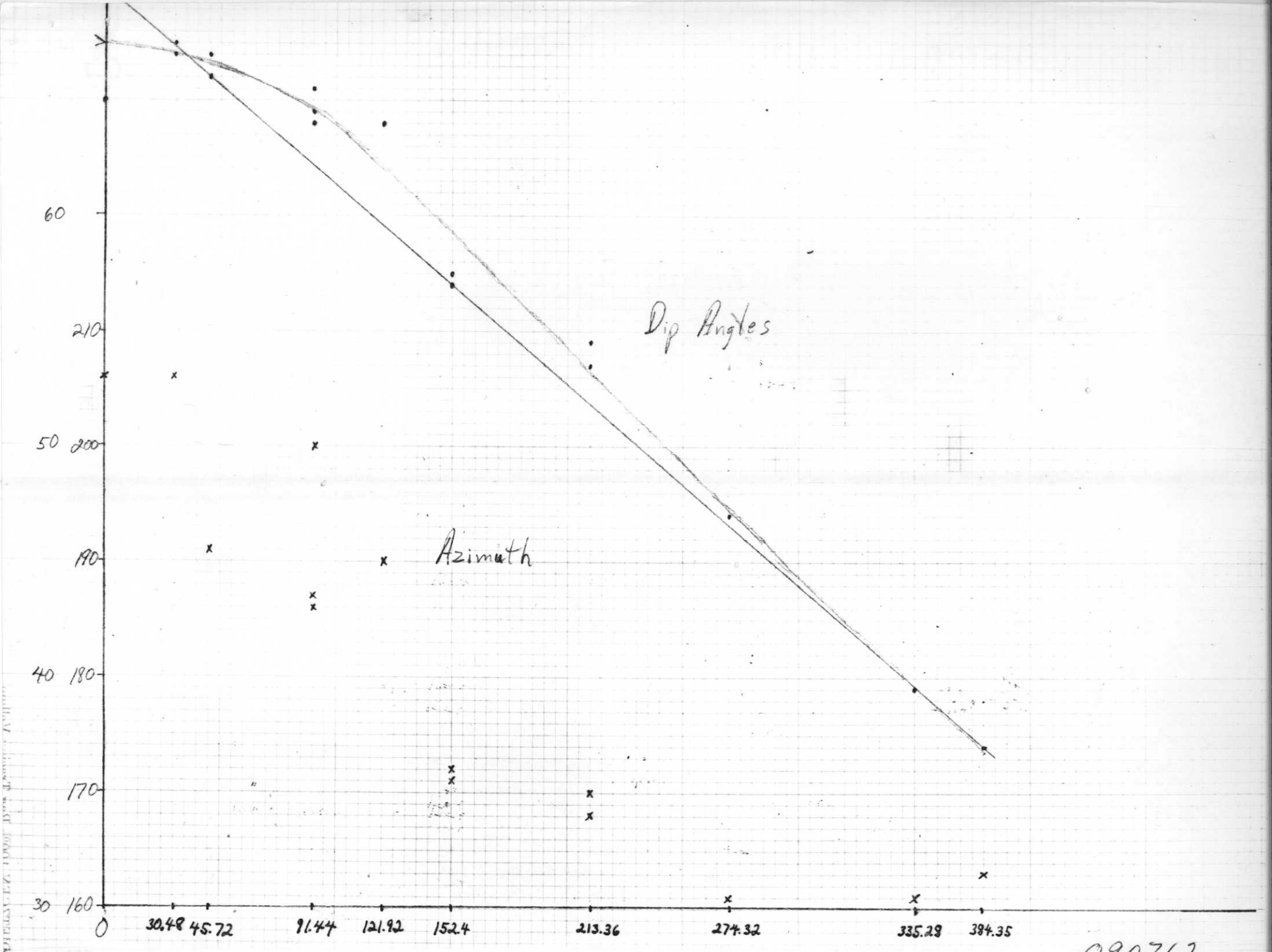
Hole OJV.80-63 at 1181'

Prorated recovery re X.04325, X.11960, Y.04326, Y.04329, Y03861 - see later invoice -

Hole OJV.80-56B at 1285'

Prorated recovery re T.8165 & E.1983 - see later invoice -

4,269.38


60
210
50
200
190
40
180
170
30
160
Dip Angles
Azimuth
0
30.48
45.72
91.44
121.92
152.4
213.36
274.32
335.28
384.35

090712

Depth (ft)	Incl	Compliment	Bearing	Azimuth			
Surface	25	65	-	206			
100 30.48	22.5	67.5	8°SE	206			
100	23	67	21.5NE	Unreliable			
150 45.72	23	67	34°NE	Unreliable			
150	24	66	23°SE	191?	Probably Unreliable		
300 91.44	24.5	65.5	27SE	187			
300	25.5	64.5	79SE	Unreliable			
300	26	64	28°SE	186			
300	26	64	14°SE	200?	Probably Unreliable		
400 121.92	26	64	24°SE	190?	Probably Unreliable		
500 152.4	32.5	57.5	43°SE	171			
500	33	57	42°SE	172			
700 213.36	36	54	46°SE	168			
700	37	53	44°SE	170			
900 274.32	43	47	53°SE	161			
1100 335.28	50.5	39.5	53°SE	161			
1261 384.35	53	37	51°SE	163			

TOTAL DRILLING
1975- 1980
= 14,233.39 metres

090712

CORDILLERAN ENGINEERING

NS= Not Surveyed

1 9 8 0 DIAMOND DRILL SUMMARY RECORD

PROPERTY: OJV JASON

HOLE No.	NORTHING	EASTING	ELEV'N	SECTION	INCLINATION	AZIMUTH	CASING	CLAIM	% REC'Y	DATE START	DATE FINISH	REMARKS	HOLE DEPTH	TOTAL
80-53	700 2262.93	436 340.79	1221.9	-	55°	030°	33.83	Jason 58	85.28	June 6N	June 15D	NQ	309.37	309.37
80-54	700 2359.26	436 672.27	1217.8	-	65°	206°	21.34	Jason 57	72.89	June 14D	July 1D	NQ	386.79	696.16
80-55	700 2628.78	436 261.85	1278.9	-	65°	225°	23.77	Jason 57	79.54	June 16D	June 21N	NQ	242.93	939.09
80-56	700 2464.28	436 749.67	1230.0	-	70°	228°	23.62	Jason 55	-	June 22N	June 24N	HQ Terminated Hole Lost	23.62	962.71
80-56A	700 2464.28	436 749.67	1230.0	-	70°	228°	18.90	Jason 55	76.00	June 25D	July 18D	HQ-NQ Reduced at 363.32	647.40	1610.11
80-56B	700 NS 2321.98	436 NS 653.47	NS 893.1	-	54°	209°	-	Jason 55	80.50	July 19D	Aug 5D	NQ-Wedge @ 387.10	Below Wedge 292.61	1902.72
80-57	700 1814.60	436 572.33	1159.4	-	50°	075°	17.98	Ace 22Fr	-	July 2N	July 3D	NQ Terminated Hole Lost	17.98	1920.70
80-57A	700 1814.60	436 572.33	1159.4	-	50°	060°	18.29	Ace 22Fr	65.75	July 3N	July 10D	NQ	182.27	2102.97
80-58	700 NS 3984.71	435 NS 041.64	NS 1451.2	-	70°	225°	12.19	Jason146	68.82	July 12N	July 17N	NQ	170.99	2273.96
80-59	700 4797.34	433 273.45	1407.2	-	50°	205°	15.24	Jason153	62.19	July 18N	July 29D	NQ	153.31	2427.27
80-60	700 4797.34	433 273.45	1407.2	-	70°	205°	25.60	Jason153	80.99	July 29N	Aug 12N	HQ-NQ Reduced @ 149.66	242.32	2669.59
80-61	700 2478.90	436 545.88	1277.0	-	78°	216°	10.67	Jason 57	91.80	Aug 9D	Aug 18D	HQ Deviation Terminated	203.30	2872.89
80-62	700 4611.74	433 316.19	1373.8	-	50°	027°	17.68	Jason153	69.44	Aug 14D	Aug 23D	HQ	135.64	3008.53
80-63	700 NS 2611.22	436 NS 463.29	NS 1295.4	-	72.5°	183°	18.90	Jason 57	85.85	Aug 20N	Sept 14N	HQ-NQ Reduced @ 213.97	591.62	3600.15
80-63A	700 NS 2505.0	436 NS 469.5	NS 1072.4	-	54.4°	171.8°	-	Jason 57	81.36	Sept 16D	Sept 25D	Wedge @ 248.41 Hole Lost	Below Wedge 131.37	3731.52
80-63B	700 NS 2491.2	436 NS 471.7	NS 1054.2	-	51.2°	170.5°	-	Jason 57	91.41	Sept 27D	Oct 8D	Wedge @ 269.14	292.76	4024.28
80-64	700 4612.97	433 317.77	1373.8	-	60°	207°	32.31	Jason153	90.28	Aug 23N	Aug 31D	HQ	206.96	4231.24
80-65	700 NS 4735.92	433 NS 385.54	NS 1411.0	-	71°	210°	29.87	Jason153	87.46	Sept 2D	Sept 13D	HQ	238.05	4469.29
80-66	700 NS 4394.84	433 NS 525.68	NS 1346.8	-	55°	031°	10.97	Jason151	90.76	Sept 15N	Sept 29D	HQ/NQ Reduced @ 254.20	384.35	4853.64
80-67	700 NS 4717.10	433 NS 152.18	NS 1374.9	-	50°	030°	13.72	Jason153	80.01	Oct 2N	Oct 6D	HQ	99.67	4953.31m 16251 ft

090712

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-53 | CLAIM Jason 58 | PROPERTY Jason | PAGE No. 1 of 20

CORE SIZE NQ | AZIMUTH collar 030° — 309.37m 029° | ELEV. COLLAR 1221.9 m | LOGGED BY Anjie Stasiuk

ANGLE of HOLE collar -55° — 309.37m -32.5° | TOTAL DEPTH 309.37m | NORTHING 7,002,262.93 | DATE BEGUN June 6/80 FINISHED June 15/80

SECTION | % RECOVERY 85.28 | EASTING 436,340.79 | CORE STORED AT Jason Property

COMMENTS: | SCALE: 1:100

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag

0m

SPERRY SUN TEST

Depth	Inclination	Azimuth
collar	55°	30°
45.72m	* 58° (?)	32°
76.20	53°	34°
137.16	48°	29°
182.88	44°	30°
238.66	36°	26°
274.32	34.5°	** — ?
309.37	32.5°	** — ?

* uncertain. 54° is chosen in cross section

** invalid result, 26° is chosen in cross section

30

OVERBURDEN

33.83

35

A-2

- dark grey, moderately siliceous argillite
- fine, faint, thin, parallel laminations
- few pyrite layers (in general ∠2mm ∠1vol%)

Office of the Supervising Mining Recorder
DEC 9 1980
WHITEHORSE
Yukon Territory

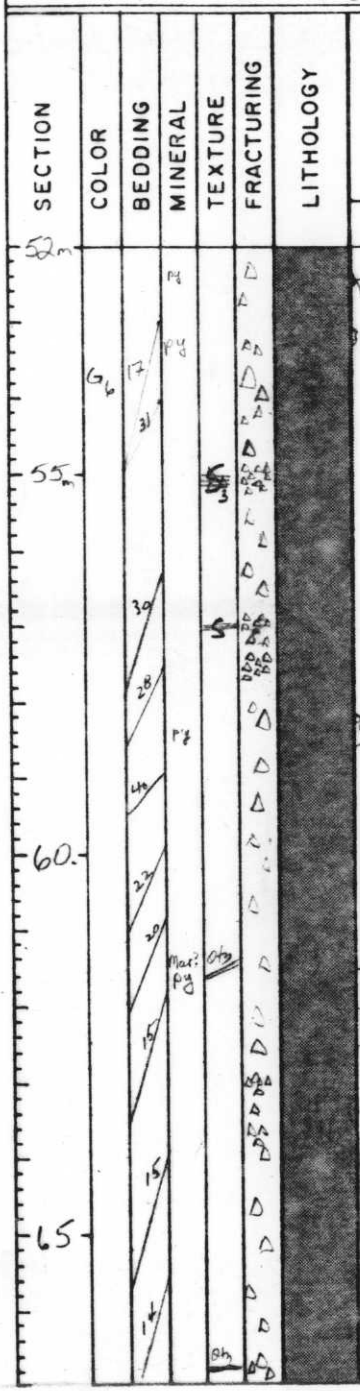
CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason 58 PROPERTY: JASON PAGE No. 2 of 20

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
37m							DITTO A-2								
				S			Qtz veining 2-3 mm thick								
							← Py aggregation (3cm x 4cm)								
40							transition								
	Gz to G8		Py	Py Qtz			A-2-a - weak to med. silicification - local pyrite (marcasite?) layers (max 3 mm, <1 vol %) - locally contorted (by slatey cleavage)								
							yellow coating on fractures (limonite?)								
							← Vuggy (10 cm)								
45															
			Py												
50															

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason #8 PROPERTY: JASON PAGE No. 3 of 20



COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED

SAMPLE INTERVAL & NUMBER

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

DITTO A-2-a

Qtz-Ser-Py UH. contorted by slately cleavage (5cm, 15 vol %)

Qtz-Ser-Py UH contorted by slatey cleavage (<1cm, 10 vol %)

Qtz vein with minor py (<1cm) (marc?)

local A-2

silt laminations increasing downward

transition to A-2-b

Qtz vein (max 3mm) with minor py.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason 58 PROPERTY: JASON PAGE No. 4 of 20

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
67 m	G_6		py mar?				A-2-b								
							fracture filling by ser + arg frags.								
70			py mar?				- 67.34 m to 68.70 m, 71.20 to 73.61 m, 73.91 to 74.11 m shows remarkable veinlets of py (marcasite?) (veinlets mostly 2 to 4 mm, max 1 cm, 10 to 25 vol %.)								
							- weak to moderate silicification								
							- locally slightly carbonaceous								
							- local contortion by slatey cleavage								
	G_6		py				- pyrite bed (1 cm)								
75															
			py												
			py												
80			py												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason #8 PROPERTY: JASON

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Zn	% Ba	oz/ton Ag
82.3							DITTO A-2-b					
	G_7	16					highly broken gauge, fault (?)	51.9	84.17 / 84.89 / 86.00			
85		5	py	sil			ser veins containing py barg frags					
		25	py				disturbed bedding in arg		88.45			
			py				89.98		B-2-L			
			py				disturbed bedding py stringers		-mtx: arg -fgts: cht_{30} (0.5cm to 2.5cm ⌀), arg_{15} (0.1 to 6cm ⌀) -py stringers			
		32							A-2-b			
90			py				90.75		A-3			
	G_4						-A-1-b alternated with biscuit shaped ss bands (beds) (≈ 70 vol %, up to 40 cm in thickness) -fairly contorted.					
		38	py									
		27	py									
95		37	py									
			N				py (mass?) & ser. injected X-cutting lam.					
		28	py				96.40		A-2-b			

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason 58 PROPERTY: JASON PAGE No. 6 of 20

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
97 m	G_5	30	py				ser & py band injected ⊥ to bedding DITTO A-2-b						
			py				98.60 B-2-E_b -mtx: arg -fgts: cht_{35} (0.1 to 8.0cm ∅), arg_{25} (4mm to 3cm ∅, max 36cm ∅)						
100		35 / 70	py				100.67 A-2-b						
			py	ft?			102.10 poor core recovery FAULT ZONE (??)	21.6%	102.10				
	G_6	35	ser. py				103.60 A-2-b -very disturbed beds - many pyrite & ser (qtz?) ults (max 1 cm). -weak to mod. silicification -very carbonaceous.		103.60				
105			py				105.64 arg boulder B-2-E_b -mtx: arg -fgt: cht_{20} (1mm to 5cm ∅), arg_{15} (2mm to 1cm ∅, max boulder ≈ 60cm), SS. (1cm to 6cm ∅).						
		40	py				red staining } ?? problem [**80-53, 109.20 to 113.70 m correlates to 78-33, 111.00 m to 116.13 m]						
				S			109.32 SS-1 (c) -locally carbonaceous.						
110	G_3		py	Qtz			red staining local brecciation ssst & arg clasts in arg. mtx.						
			py	S					111.86				

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason 58 PROPERTY: JASON PAGE No. 7 of 20

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	Cu ppm	ppm Ag
112m							Ditto (SS-1-C)		111.86				
	G8			f8			112.50 fairy broken, gauge poor recovery 113.70	36.6	113.39				
115	G3	50					A-1-a alternated with A-2	51.8	114.76				
		45					• A-1-a : from few cm upto 20cm thickness ; 30~35 vol% ; G3, G6~G8, and black colored, G6-G8 and black colored A-1 are fairly to very carbonaceous, G3 rock is strongly sideritized showing fine s.s.-like. SS alternation locally (<5 vol% <5cm thick)	83.2	116.43				
		42	py					91.8	117.65				
		47	py										
		60						90.9	120.00				
120		35	Cp py					120.40	8326	540	111	99	1.6
		47	py						121.00				
		42					• A-2 : several cm to 60cm or more intercalated with A-1-a fairly to strongly calcareous	95.7	8327 122.00	48	320	45	0.7
	G6	50	py				remarkable sidente, sericite veining (±20%)		8328 123.00	570	334	73	1.5
			Cpy				• whole unit, med. to strongly silicified, some Qz-Py-Sp Cp-(Gn)	123.44	8329 124.00	295	136	72	0.8
125		41							8330 125.00	183	380	44	0.7
							*** [from 113.70m to 129.24m similar to DDH 78-33, 99.20m to 105.90m]	89.1	8331 126.00	2750	655	570	2.1
		48	Gl Cp Sh				brecciated	126.49	8332	4.68% (>20000)	19,420	286	18.0

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason 58 PROPERTY: JASON PAGE No. 8 of 20

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	Cu ppm	ppm Ag
127 m			Gn py				qtz vein (≈5cm) + vlts of siderite & py		127.00				
		20		S			127.85 - red staining	79.0	8333 128.00	7700	1635	178	2.6
			Gn py	S			A-2-a - very carbonaceous - py xtls throughout.		8334 129.00	10200	2920	94	4.9
	G4			Qtz			129.24 local ssdt bed remarkable qtz, py, gal vlt. - vein of qtz, gal, py injected x lam. (10 cm long)	129.50	8335 130.00	18400	625	219	9.6
130		40	Pu Gn py Gn				A-1-b / A-2-b - local siderite dissem. bands (max 10 cm) - also contain pyrite - A-1-b 10-15 vol % - moderate silicificed - local py lam. - very carbonaceous.	100.0 131.06	8336 131.00	3.01% >20,000	348	2300	19.0
		50	Pu Gn	Qtz				81.0	8337 132.00	2500	1050	169	1.9
		50					A-1-b - v. carbonaceous - hematitic staining [*** 80-53, 129.24 to 149.7m similar to 78-33, 70 to 99.20 m (?)]	132.59	8338 133.00	6400	181	217	3.4
				S				76.0	8339 134.00	2600	278	183	2.1
		30					134.36	134.26					
135	G6		Py Sph py	f6			Poor Recov. brecciated py sid matrix with arg. frags. (1mm to 3cm)	59.7 135.03	8340 135.00	1140	166	151	1.4
							A-2-b - very carbonaceous - contorted due to slatey cleavage - moderately siliceous - local qtz & sericite & py. vlts - local minor brecciation - laminations are v. silty, fine-grained & v. dk. in colour. - qtz, siderite, galena, chalco, pyrite and/or siderite vlts scattered. (sphal. < 1 vol %)	20.7	8341 136.00	100	182	3000	3.5
								137.16	8342 137.00	118	214	2300	2.4
							137.30 m	100.0 137.77	8343 138.00	65	51	113	0.4
		51						86.9	8344 139.00	153	410	610	0.4
		55						139.9	8345 140.00	58	36	71	0.3
140	G5	40	Py					85.0	8346 141.00	115	268	275	0.5
			Py Cpy					141.43	8347	160	2000	5800	8.5

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason #8 PROPERTY: JASON PAGE No. 9 of 20

DITTO A-2-b

fracture filling by Py
very disturbed bedding
cut by ser, qtz, Py vlts.
very siliceous

remarkable veining & distortions of beds.

incr. in rd. boards to base of bed. (max 6 cm) (A-3-like)
- locally brecciated.

153.31

B-2-s
- arg. matrix
- frags: chert$_{35}$ (1mm to 4cm ø), arg$_{10}$ (2mm to 1cm ø), Py$_5$ (1mm to 5mm)

155.20

A-2-b / Pebbly ss. altered
(or B-3-Eb ?)
- pebbly sodt - (ss-1-c with 5-10 vol% frags of chert > arg)
- 5-25cm thickness ≈ 25 vol%

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	Cu ppm	ppm Ag
85.8	8348 142.00	71	64	138	0.4
143.26	143.00				
100.0	8349	80	1460	156	0.8
143.87	144.00				
100.0	8350	300	334	160	0.7
144.68	145.00				
83.2	8351	135	275	99	0.7
	146.00				
	8352	240	172	198	1.2
147.22	147.00				
	8353	260	1255	2500	4.1
	148.00				
97.4	8354	340	178	1400	3.7
	149.00				
	8355	270	790	119	1.5
	150.00				
150.27	8356	117	317	59	0.8
	151.00				
90.5	8357	116	91	73	0.7
	152.00				
	8358	113	172	61	0.8
	153.00				
153.31	8359	360	146	147	0.8
	154.00				
94.0					
155.14					
87.0					
156.06					
96.2					

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason #8 PROPERTY: JASON PAGE No. 10 of 20

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

157 ft

DITTO
- pebbly 5.5, 5-25cm thickness, ≈25 vol %; Qz veined

157.8 Total
B-2-Ec
- matrix - arg
- frag cherty 40 (1mm to 5cm), arg 20 (2mm to 10cm), some py

158.10

B-3-Ec

Mtx: SS-5 • chert y 20 (1mm to 4cm max), arg 5 (1mm to 1cm), pyrite disseminated.

Fgt: arg 20 (A-2-b) (4cm to 40cm) - some py lam (<2 vol %)

161.85

A-2-b (boulder?)
- sodt bands ≈ 5 vol %
- few thin py lam (<1 vol %)

165.10

B-3-Ec cont'd

qtz, sericite + minor py

170.36

B-4-L
Mtx: SS-1-C. Fgt: CHT 50 Arg 35. (0.5 cm pcommon few 2 cm pt)

171.98

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason 58 PROPERTY: JASON PAGE No. 11 of 20

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
172m	G4						B-4-Ec (clast supported) Mtx: SS-5-m (Arg > Cht; ≤1cm ϕ) Fgt: Arg90 (5~10cm ϕ common, 16cm ϕ max) Cht1+ (2cm ± ϕ) (B-4-S fgt ? 4cm)								
							173.60								
175							B-4-Ec (B-5-Ec ?) Mtx: Pebbly mudstone (Arg15~20 Cht10+ < 1cm ϕ) Fgt: Arg30- (5~10cm ϕ, one 18cm across.) (more platy fgt) Cht5+ (max 2.5cm ϕ) (B-4-S fgt ? 6cm) • lower part gradded ?								
	G4	41° ? Py band Py Sed	Py some				gradded ↓ ? 176.83								
							B-5-Eb Mtx: B-4-L (Mtx: SS; Fgt: Cht50+ <5cm Arg15~20, 2.5cm ϕ) Fgt: Arg95- (max 65cm)								
							179.40								
180							B-6-Ec Mtx: B-4-M (S.S matrix with Cht40~45 Arg10± : <1cm ϕ) Fgt: Arg35~40 (4~5cm ϕ common, 16cm across max.) Cht5 (max 5cm ϕ). SS-1-C few (3cm ϕ)								
							183.06 ← 30cm S.S bed in Arg fgt								
							B-2-Eb Mtx: Arg Fgt: Arg35+ (30cm max. with 30cm S.S-1-C bed.) Cht10- (<3cm ϕ), B-4-M fgt. 4cm across. similar to matrix in above section.								
							184.57								
185							B-5-Eb Mtx: B-4-L (S.S matrix with Arg25± Cht15 few S.S <2cm ϕ common, some 4cm+) Fgt: Arg30± one 1.4m boulder and 30cm fgt								
	G6														

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason 58 PROPERTY: JASON PAGE No. 12 of 20

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
187m	G5						(8~10cm across ... l.)						
							B-5-Eb (Cont'd)						
							188.90 A-2-b boulder						
190	G6						190.10						
							190.94 B-3-Ec Mtx: SS-1-C (few ... Fgt: Arg 30 (1cm x 5 ... 6cm across)						
							one cht. fgt 1.4cm 191.76 B-4-Ec Mtx: Pebbly mudstone ... 0.5cm ϕ common) (partly B-2-... >30 vol%) Fgt: Arg 40- (<4cm co... m across), cht 10 (2.5cm)						
							193.50 B-4-Ec Mtx: Pebbly mudstone (... 2cm ϕ common, <10 vol%) Fgt: Arg 75+ (<10cm across ... <4cm ϕ)		194.0				
195							very poor recovery	18.7.					
							195.30 fault!						
	G2		sid				B-6-Ec Mtx: B-4-S (S.S. mtx with cht ... Arg 25-, <0.5cm ϕ) Fgt: Arg 30+ (8cm across max. 2~... common) (some irreg. shape) Cht 25+ (2.5cm max <... common) B-6-L some (5cm max)		196.14				
			Q				197.8 C-2-L Mtx: SS-1-C Fgt: Arg 7~10 (<1cm ϕ common, max. 2.5cm) Cht						
	G2		Q				• Strongly silicified. Qz vein >5cm width.						
200							200.13 B-4-Ec Mtx: Pebbly mudstone-S. (cht > Arg <0.5cm) Fgt: Arg 35+ (17cm max, 5~10cm com...)						
	G5												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason 58 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

DESCRIPTIVE GEOLOGY

202

B-4-L ~ B-4-2, 5% (5-18 cm)

B-4-Ec (cont'd)

203.50 m

B-4-L (C-1-L like)

Mtx: ss-1-C.

Fgt: Cht 40+ (5 cm max, 1~2 cm common)
Arg 3~5 (5 cm max 0.5~1 cm common)

- most of fgt. are round to subround few subangular
- local s.s. matrix ≫ fgt in volume
- strongly silic.

Unit-4

205

209.09

C-2-L

Mtx: ss-1-C.

Fgt: Cht 35~40 (1~2 cm common 2.5 cm max)
Arg 5~7 (1~2 cm common)

- strongly silic.

210

213.04

B-4-Ec

Mtx: Pebbly mudstone - s. (Cht ≥ Arg, 0.5 cm ϕ)

Fgt: Arg 60 (7 cm) Cht 7 (<1 cm ϕ)
B-4-L, B-4-Ec 5~7 (10~12 cm)

Transition

214.06

215

A-2-b [Possibly as a platy boulder in B-4-Ec.]

- low to mod. silicification
- ssdt. bands (≈5 vol %), max 2 cm
- local pyrite laminations (<2 vol %)
- carbonaceous

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason 58 PROPERTY: JASON PAGE No. 14 of 20

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
217m	G_5	25	py				DITTO A-2-b - calc. veins containing dissem. py - lam. of limonite & pyrite - locally beds are disturbed.								
		21													
220		21													
		31	py				20cm long x 4cm wide bed of dissem py + calc.								
		0													
		16													
225			py												
		23	py				30cm long X 2cm wide band of py + calc.								
		19													
		22													
		28													
230	G_5	dl													
			py												

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason #8 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED

SAMPLE INTERVAL & NUMBER

ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

232.3

232.20

B-2-M

- mtx: arg.
- fgts: arg_{80} (4mm to 10cm max), cht_5 (2mm to 2cm ø), py dissem.

233.70

A-2-b

- bands of py & limonite (< 5 vol %)
- few py "nodules"

235

236.93

B-4-E_b

- mtx: pebbly mudstone - small (cht > arg, < 1cm, 25± vol %)
- fgt: arg (35 ~ 40 vol %), cht (< 5 vol %), others (15± vol %) (B-4-S~L, ss-5-s~m, c-1-L).

240

245

63

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason #8 PROPERTY: JASON

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
247'	G_6						DITTO B-4-E_b								
	G_3						breccia boulder								
250	G_5														
255	G_5														
	G_3						congl. boulder								
260	G_6														

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason 58 PROPERTY: JASON

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
262'	G7						DITTO B-4-Eb								
265	G3						breccia boulder								
	G5						arg. boulder.								
	G7			S			FAULT ZONE ?? - badly broken up								
270	G4														
275	G7														

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason 58 PROPERTY: JASON PAGE No. 18 of 20

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
277	G_5					arg boulder	DITTO B-4-E_b								
280							279.81 Poor recovery (55.1%)								
							281.48 B-4-E_b - mtx: pebbly mudstone - large (arg > clst, < 5cm, < 20 vol %) - fgts: arg_{30} (max 48cm), clst (< 10 vol %), $ssdt_5$ (ss-5-s ~ m)								
	G_4														
	G_5					arg fragment									
	G_3		pg	qtz		s.s. fragment									
285	G_8														
	G_6		pg	qtz			286.21 B-4-E_b - mtx: pebbly mudstone - medium (arg. > chert, < 2cm, < 25 vol %) - fgts: arg_{30} (max 55cm), $chert_5$ (max 3cm)								
						arg boulder	287.88 B-4-E_b - mtx pebbly mudstone (arg ≫ chert, < 5cm, 20 vol %) - fgts: arg_{50} (max size ~ 5m), $chert_{10}$ (max size 4cm).								
290	G_6														

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason #8 PROPERTY: JASON PAGE No. 19 of 20

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
292'	G_7 G_6						DITTO B-4-E_b								
295															
							arg boulder A-2-b.								
300															
							arg boulder A-2-b								
	G_7														
305															

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-53 CLAIM: Jason 58 PROPERTY: JASON PAGE No. 20 of 20

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
307'	G7				D D D D D D		DITTO B-4-E$_B$								
	G8						309.37 END OF HOLE								

090712

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-54 | CLAIM Jason 57 | PROPERTY Jason | PAGE No. 1 of 26

CORE SIZE NQ | AZIMUTH Collar 206° 384.35m 163°(?) | ELEV. COLLAR 1217.8m | LOGGED BY A.R. Hildebrand

ANGLE of HOLE Collar -65° 384.35m -37° | TOTAL DEPTH 386.79m | NORTHING 7,002,359.26 | DATE BEGUN June/4/80 FINISHED July/1/80

SECTION | % RECOVERY 72.89 | EASTING 436,672.27 | CORE STORED AT Jason Property

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: SCALE: 1:100 | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Sperry Sun Test.

Depth (m)	Inclination	Azimuth
Collar	-65°	206°
30.48m	*-67°; -68°;	*206; 55.5° (?)
45.72	*-67°;	68° (?)
91.44	*-64.5; -65.5°; -64°	135° (?); 187° (?); 186° (?)
121.92	*-64°;	*190°;
152.40	*-57.5°; -57°	171°; *172°;
213.36	*-54°; -53°	168°; *170°;
274.32	*-47°;	*161°
335.28	*-39.5°;	*161°;
384.35	*-37°;	163° (?)

Over Burden

A diamond drill hole cross section plot is ideally a smooth curve

* indicates readings on this curve

(?) indicates readings considered as affected by local magnetic disturbance.

Office of the Supervising Mining Recorder
DEC 9 1980
WHITEHORSE
Yukon Territory

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Overburden

21.34

B-5-E_b

Mtx_{60-65}: B-4-M-mtx_{20}: pebbly mudstone w/ angular to subangular clasts 4 mm ø, Arg_{51}, Cht_9 clasts

fgt_{40}: Arg_{26}, Cht_{14}, SS-1-$m_{<1}$ (5-15 mm ø common, 30 mm ø max-angular to subangular)

Fat_{35-40}: Arg_{35-40}, $Others_{<1}$ (SS-1-m,c, B-3-S)-(10-15 cm common, 30 cm max)

- boulders or regolith were ground and cored in upper 80 cm of hole
- well developed slickenslides and shear planes occur intermittently throughout the interval
- blebs and up to 2 mm xtls of pyrite occur throughout the interval in cht fgts & <1% occurs as blebs and laminations in the mudstone mtx - 1% occurs as diss blebs and < 1 mm xtls in large arg fgts

30.40 30 cm A-3 fgt. showing gently contacted bedding

B-6-E_b

Mtx_{63}: B-4-L-mtx_{30}: pebbly mudstone w/ angular to subangular clasts < 5 mm ø, Arg_{17}, Cht_{13}

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

fgt: Arg_{35}, Cht_{35}, $Others_{<1}$ (SS-2-f, Silt-St), (5-25 mm ϕ common, 40 mm max - angular to subangular)

Fgt: Arg_{35}, $Others_{2}$ (SS-1-c, Cht), (10-20 cm common, 60 cm max)

- well developed slickenslides and shear planes occur intermittently throughout the interval - moderately well developed slaty cleavage present
- blebs and ≤ 1 mm xtls of pyrite occur throughout the interval in fgts of chert — 10% of py occurs as blebs in the mudstone - 1% occurs as diss blebs and grains in arg fgts.

36.30

B-5-E_b

Mtx: $B-4-L_{15}$ - mtx: pebbly mudstone w/angular to subangular clasts $_{55-65}$ <5 mm ϕ, Arg_{54}, Cht_{6}

fgt: Arg_{25-35}, Cht_{5-15}, $SS-1-m_{<1}$ (5-30 mm ϕ $_{35-45}$ common, 60 mm max - angular to subangular)

Fgt: Arg_{85} (10-60 cm ϕ common, 160 cm max)

- well developed slickenslides and shear planes occur intermittently throughout the interval
- moderately well developed slaty cleavage present
- poorly developed stylolites parallel the cleavage
- blebs and ≤ 1 mm xtls of pyrite occur throughout the interval in fgts of chert - 10% of pyrite occurs as blebs in the mudstone, 1% occurs as diss blebs and grains in arg fgts.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

50

f6

52.43 — B-5-E_b-Mtx_{50}: B-6-L-mtx_{52-70}: pebbly mudstone w/angular to subangular clasts <5mm ϕ; Arg_{57}, Cht_3 - fgt_{30-55}: Arg_{95}, Cht_5 (5-20 mm ϕ common, 40 cm max, angular to subrounded)

Fgt_{50}: Arg_{50} (20 cm common, 130 cm max) - unit is sheared w/ well developed slickenslides - a random network of quartz veins w/ minor sid, py more abundant in lower half - hairline fracture fillings to 1 cm veinlets 5 vol % of rock - upper 65 cm of unit is graded B-6-M indicating younging upwards, py in cht $fgts_{55}$, qtz veins$_{20}$ | mtx_{15}, arg $fgts_{10}$

Sid, Py

55

Qtz

56.08 —

B-5-E_b-Mtx_{60} B-2-L-mtx: arg_{80} fgt: Arg_{17} Cht_3 (1-10 mm ϕ common, 35 mm max, angular to subangular)

74.2

Fgt_{40}-Arg_{40} (15-40 cm common, 110 cm max) - unit is sheared and faulted with well developed slickenslides common - fault planes make angles of 30-35° to the core axis consistently

59.0

- minor narrow (hairline - 1 cm) veinlets of qtz, sid, py occur randomly oriented throughout the unit

50.0

- pyrite occurs as blebs, masses, and xtls in cht $fgts_{40}$

34.4

47.5

f10

Py

60

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason PAGE No. 5 of 26

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
				f9			blebs, xtls in qtz veins$_{15}$, blebs and masses in matrix$_{30}$, diss grains and xtls in arg fgts$_{15}$.	41.1							
				f10				56.6							
								48.7							
65								24.3							
								64.8							
								60.5							
								77.9							
								70.0							
70				f10			70.18	56.7							
							B-6-Eb-Mtx$_{10}$: B-2-M-mtx$_{15}$: Arg$_{15}$ fgt$_{85}$: Cht$_{55}$, Arg$_{29}$, SS-1-f$_1$ (1-6 mm ϕ common, angular to subangular)								
							Fgt$_{90}$-Cht$_{45}$, Arg$_{41}$ B-2-M$_1$, B-6-L$_2$ SS-1-f, m$_1$ (bimodal distribution of fgt sizes 1-8 cm ϕ of cht and arg common and 15-40 cm ϕ of arg and B-2, B-6 common)								
75							- unit is sheared and slickenslid especially from 70.18 to 79.0 m where poorly developed fault breccias may be present.								
							- pyrite occurs as diss grains, xtls, blebs, and masses in cht fgts$_{68}$, blebs in matrix$_2$, and diss								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason PAGE No. 6 of 26

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
							grains in arg fgts.								
80															
85															
		42° ↑ 38°	NCu				88.70 B-4-L, E_c (graded) w/local B-2-L & minor SS, Siltst, & Arg - Mtx & Fgt vary in proportion of rock and composition - Arg, Cht, & SS are variably present. -6 well developed graded beds are present 6-60 cm thick, thin (<20 mm) beds of SS-2-f, m, siltst, & arg at top of some graded beds - minor moderately well developed slickenslides and shear planes are present intermittently - 89.41 m - native Cu coats fracture surface - py occurs as xtls, blebs, & masses in cht fgts$_{80}$, as diss grains & f.gr thin bands in arg fgts$_{10}$, & as diss grains & fgts in the mtx$_{10}$								
90		29° 36°													
							91.80								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

B-6-E_b-Mtx_7: B-2-M-mtx_{15}: Arg_{15} $fgts_{85}$: Cht_{51}, Arg_{33}, SS-1-m_1, $Py_{<1}$ (1-4 mm ϕ range, angular to subangular)

Fgt_{93}: Arg_{70}, Cht_{23}, SS-1-$m_{<1}$ (5 mm to 100 mm ϕ common, 300 mm ϕ max, angular to subangular)

- cht fgts are < 6 cm ϕ
- well developed shear planes and slickenslides occur intermittently throughout the unit
- pyrite occurs in $fgts_{79}$ as xtls, blebs, masses, and diss grains, in arg $fgts_5$ diss grains, in mtx_{15} as diss grains and masses, and as $fgts_1$

95

99.70 — B-4-E_b(graded)-Mtx_{20}: poorly sorted pebbly f-c sand + grit < 4 mm ϕ, Cht_{17-18}, Arg_{1-2}, SS-1-f, c_{3-1}, angular to subangular)

Fgt_{80}: Arg_{65}, Cht_{14}, SS-1-f, c_1 (.5 cm - 5 cm ϕ common, 200 cm ϕ max, angular to subangular)

- minor poorly sorted beds of SS-1-c w/ poorly developed upright and reverse grading - qtz veins (1-10 mm wide) occur throughout at ~30-40° CA - well developed shear planes and slickenslides occur throughout - pyrite occurs in cht fgts, arg fgts, and mtx

100

43° Qtz

- 2 meter A-2-c boulder may be an undisturbed unit.

103.20 — B-5-E_b-Mtx_{40} B-4-L-mtx_{60}: pebbly mudstone w/ angular to subangular clasts < 4 mm ϕ, Arg_{50}, Cht_{10} fgt_{40}: Arg_{23}, Cht_{15}, SS-1-f, c_2 (5-20 mm ϕ common, 75 mm max, angular to subangular clasts)

105

Fgt_{60}: Arg_{60} (10-40 cm ϕ common, 90 cm max, smaller fgts are angular to subangular)

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED

SAMPLE INTERVAL & NUMBER

ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

- well developed shear planes + slickenslides occur w/ abundant fracturing
- 106.7-106.9 - possible cemented fault gouge - pyrite occurs as grains, blebs, masses, + xtls in cht $fgts_{50}$ grains, blebs, masses, + xtls in SS-1-m $fgts_{8}$, masses, stringers, + grains in mtx_{12}, grains and thin (1-2 mm) beds in arg $fgts_{30}$

108.61 —

B-5-E_b-Mtx_{55}; B-1-L-mtx: Arg_{15-20} (fgts < 4 mm) fgt: Arg_{80-85}, Cht_{trace}, Finely bedded $pyrite_{trace}$ (5-40 mm ϕ common, 60 mm ϕ max, angular to subangular fgt)

Fgt_{45}: Arg_{45} (10-30 cm ϕ common, 40 cm max - generally too large to describe shape)

- abundant well developed shear planes and slickenslides occur from 108.61 to 114.61 - 111.36 - 113.69 - only 60 cm of fragmented core recovered, near the bottom only pebbles/fgts or fault gouge fgts - 113.69 - 114.61 - only 10 cm of core recovered, all cemented fault gouge.
- pyrite occurs as grains, blebs, and masses in the $matrix_{50}$, and as diss grains and fine grained beds in the argillite $fgts_{50}$
- one 5 cm fgt of very pyritic arg is present.

110

115

120

f6

f10

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

124.20

B-5-E_c-Mtx_{70}: B-4-L-mtx_{50}: Arg_{45}, Cht_5 (clasts <4mm ϕ, angular to subangular)
fgt_{50}: Arg_{35}, Cht_{15} (5-25 mm ϕ common, 60 mm ϕ max, angular to subangular)

Fgt_{30}: Arg_{30} (3-12 cm ϕ common, 15 cm ϕ max)
- poorly developed shear planes and slicken slides occur throughout the unit
- pyrite occurs as xtls, blebs, and masses in cht $fgts_{80}$, diss grains, blebs and masses in the mtx 19, and diss grains and thinly (1-2 mm) bedded lamina in arg fgts,

134.49

B-5-E_c-Mtx_{90}: B-1-L-mtx_{40}: Arg_{40}
fgt_{60}: Arg_{60}, Cht_{trace} (1-20 mm ϕ common, 50 mm ϕ max, subangular to subrounded)

Fgt_{10}: Arg (3-12 cm ϕ common, 20 cm ϕ max)

qtz ser

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

- poor to moderately well developed shear planes and slickenslides occur throughout the unit
- pyrite occurs as diss grains, xtls, blebs, masses, and fine grained bedded fgts in mtx_{70} and diss grains and fine grained thin beds in $fgts_{30}$ – trace amounts occur as xtls and blebs in cht fgts
- in upper half of unit thin (1-2 mm) veinlets of f. gr. qtz and sericite occur randomly distributed and oriented

qtz ser

140

145

145.84 — $B\text{-}5\text{-}E_c\text{-}Mtx_{60}$; $B\text{-}4\text{-}L\text{-}mtx_{30}$: Arg_{28}, Cht_2 (clasts < 4 mm ϕ, angular to subangular)
fgt_{70}: Arg_{53}, Cht_{17}, $SS\text{-}1\text{-}m_{<1}$ (5-25 mm ϕ common, 40 mm ϕ max, angular to subangular)
Fgt_{40} Arg_{40} (5-12 cm ϕ common, 24 cm ϕ max)

- poorly to moderately well developed shear planes and slicken slides occur throughout the unit
- pyrite occurs as blebs, xtls, and masses in cht $fgts_{80}$, as diss grains, masses, and blebs in the mtx_{15}, and as diss grains and finely grained thin beds in $arg\ fgts_5$

150

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		

B-5-E_c (cont.)

157.58

B-1-E_c-Mtx_{30}; Arg_{30}
Fgt_{70}: Arg_{70} (5-70 mm ϕ common, 150 mm ϕ max)
- almost all arg fgts are A-3 lithologies
- poorly to well developed shear planes and slickenslides occur intermittently throughout the unit
- pyrite occurs as diss grains and fine grained thinly bedded lamina in arg fgt_{60} and as diss grains, blebs, xtls, and masses in the mtx_{40}

162.25

B-6-E_b-Mtx_{40}; B-2-L-mtx_{12}; Arg_{12}
fgt_{88}: Arg_{26}, Cht_{60}, SS-1-f, m_2 (1-25 mm ϕ common, angular to subangular)
Fgt_{60}: Arg_{89}, Cht_{10}, B-4-m_1 (2.5 cm - 15 cm ϕ common, 70 cm max, angular to subangular)
- maximum cht fgt ϕ is 8 cm while many arg fgts are larger resulting in a bimodal size distribution based on composition
- minor thin (1-2 mm) quartz veinlets occur in

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

DESCRIPTIVE GEOLOGY

B-6-E_b (cont.) - the upper 1.5 m of the unit - minor quartz veining is also present in the bottom half of the unit
- from 175.8 to 183.4 cht fgts are dominant but elsewhere arg fgts are dominant
- poor to moderately well developed shear planes and slickenslides are present throughout the unit
- finely ground argillic core is present from 163.37-163.50
- pyrite occurs as blebs, xtls, and masses in cht fgts$_{50}$ diss grains and blebs in the mtx$_{10}$, and xtls, blebs, diss grains, and finely grained thin beds in arg fgts$_{40}$ (generally pyrite content is low compared to other units)
- breccia fgts from the underlying unit are present in the base of the unit

170

175

180

qtz

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		

B-6-E_b (cont.)

185

qtz

190

193.80

B-5-E_c - Mtx_{70}; B-2-L - mtx_{15}; Arg_{15}

* B-4-L (poorly graded) fgt_{25}: Cht_{45}, Arg_{40} (1-20 mm ϕ common, 40 mm ϕ max, angular to subangular)

Fgt_{30}: Arg_{30} (4-8 cm ϕ common, 10 cm ϕ max, angular to subangular)

195

Sp

B-4-L 196.05 196.30

B-4-L - Mtx_{40}: pebbly poorly sorted SS-1-f_{24} w/argillic + siltst fraction - clasts are Cht_{14}, Arg_2, $Sp_{<1}$ (pebble fraction < 4 mm ϕ, angular to subangular)

(poorly graded)

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason PAGE No. 14 of 26

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							COMMENTS:								
			Sp				197.60 B-4-L 198.30								
		53°					B-5-E_c-Mtx_{30}: B-2-L-mtx_{15}: Arg_{15} fgt_{85}: Arg_{43}, Cht_{37}, SS-1-f, c_5 (1-20mm ϕ common, 40 mm ϕ max, angular to subangular) Fgt_{70}: Arg_{70} (7-20 cm ϕ common, 26 cm ϕ max) - poorly to well developed shear planes and slickenslides occur intermittently throughout the unit - pyrite occurs as xtls, blebs and masses in cht fgt_{50}, diss grains, blebs, and masses in arg mtx_{15}, diss grains and fine grained thin beds in arg fgt_{34}, and hairline veins,							
	G6	56°					202.94 A-2-C (A-3) - thin (1-3cm) layers of B-4 are interbedded at both boundaries - poorly developed shear planes and slickenslides occur intermittently throughout the unit - py occurs as diss grains, xtls, f. gr. thin (<2mm) beds, and hairline veins - immediate base of unit is slightly contorted pebbly pebbly mudstone w/ pebbles <1cm - unit below may grade upwards into this argillite.							
205		56°					205.30 <2cm B-4 beds intercalated w/arg 205.75 B-4-L - Mtx_{40}: argillic, silty, poorly sorted pebbly SS-1-f, pebbles <4 mm ϕ, cht dominates, minor arg, SS-1-f, m							
			Qtz				206.15 B-4-L (graded) 206.70 B-5-E_b Fgt_{60}: Cht_{51}, SS-1-f, m_6, Arg_3 (5-30mm ϕ common, 50 mm ϕ max, angular to subangular) - rock seems partially silicified - an 8cm silicified cht breccia is present at base of unit - minor <2mm qtz veinlets occur - poorly developed shear planes and slickenslides occur throughout - py occurs xtls, grains, + blebs in mtx, along shear planes, + as grains in cht fgts - Mtx_{60}: very poorly sorted argillic and silty pebbly SS-1-f, m (clasts ≤4mm ϕ, angular to subangular) - mostly cht w/ minor arg fgts - Fgt_{40}: Cht_{32}, SS-1-f, c_6, Arg_2 (5-20mm ϕ common, 50mm ϕ max, ang to subang) - unit fines uphole indicating tops NE wards - moderately well developed slickenslides occur - partially silicified and many <1mm qtz vnlts occur - pyrite occurs in cht fgts, arg fgts, and as corroded shear planes ...							
210															

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

B-5-E_b-Mtx_{30}; B-2-L-mtx_{50}; Arg_{20}
fgt_{80}: Arg_{62}, Cht_{15}, SS-1-f, m_{21}, B-4-L, (1-30 mm ϕ common, 50 mm ϕ max, angular to subangular)
Fgt: Arg_{70} (A-2-a, A-2-b, A-2-c, A-3) $_{70}$, SS-1-m<1, 6-20 cm ϕ common, 50 cm ϕ max)
- poorly to well developed shear planes and slickenslides occur throughout the unit
- pyrite occurs as diss grains, blebs, masses, and xtls in the mtx_{24}, xtls, blebs, and masses in cht fgt_{40}, as diss grains, xtls, and finely grained thin beds (<2 mm) in arg fgt_{35}, and as 20 mm fine grained massive fgts,

215

Qtz — 217.70 — 218.00 — a 30 cm milky quartz vein w/ remnant argillic fgts - has the appearance of sweating out of the rock

218.50

C-3-L (Unit 2) - Mtx_{15}: very poorly sorted SS-1-m w/ many grit sizes
Fgt: Arg_{25}, SS-1-f c_{30} (probably from sand bands in args), Cht_{40} (5-25 mm ϕ common, 70 mm ϕ max, rounded to angular fgts)
- the rock is very massive, hard, and competent
- almost all fgts and matrix have been well silicified and hairline randomly oriented quartz veins are common
- the number of subangular and angular fgts versus rounded fgts may mean that this unit is not technically a conglomerate but it correlates with unit 2.
- pyrite occurs as diss grains in the mtx, diss grains and blebs in cht fgts, and diss grains and blebs in arg fgts - relatively little pyrite in comparison to most units

220

Qtz

225

% CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

C-3-L (Unit 2) - a very soft mineral (talc?) occurs in one fgt
This unit correlates to the 71.20-76.60 interval in DDH-78-30. A less precise correlation to the 438.8-444.0 interval in DDH-80-56A and the 441.9-488.1 interval in DDH-80-56B is also valid.

230

Qtz

234.39
B-2-M
B-2-L
235
55
60

A-2-a w/intercalated thin beds of B-2-M + B-2-L - arg is variable in amount of laminations and silt/sst content ranging from A-1-a to A-2-b
- these thin breccia beds have not disturbed the argillite and are probably widespread layers rather than channel deposits - minor poorly developed shear planes are present in the unit - pyrite occurs as diss grains, hairline veinlets, and fine grained thin beds in the argillite

236.25

B-5-E_b-Mtx_{15}: B-2-L-mtx: Arg_{50} Cht_{20}, Pebbly Mudstone$_{<1}$ (1-25mm ϕ common, 70 mm ϕ max, angular to subrounded)
Fgt_{50}: Arg_{30}
Fgt_{85}: Arg_{85} (A-1-a, A-2, A-2-b, A-2-c, A-3 - 8-25cm ϕ common, 240 cm ϕ max) - the large A-2-c (2.4m) fgt at the base of the unit may be a slightly disturbed bed rather than a fgt - most of the fgts appear to have resulted from relatively low energy slumping
- poorly developed shear planes and slickenslides occur throughout the unit
- pyrite occurs as diss grains and fgts in the breccia mtx_{15})

240

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

B-5-E_b (cont.)
xtls, blebs, and masses in the cht_{10}, as coatings on the fractures, and as diss grains and finely grained thin (<5mm) beds in the arg $fgts_{74}$.

245

248.60 — B-5-L-Mtx_{80}; B-4-L-mtx_{60}: v. poorly sorted pebbly sandstone w/silt to coarse sand ϕ grains - clasts range up to 4mm ϕ - mostly chert w/minor arg
ftg_{40}: Cht_{30}, SS-1-f, m_7 (probably from argillites), Arg_3 (5-20 mm ϕ common, 40 mm ϕ max, ang to subang)
Fgt_{20}: Arg_{20} (6-8 cm ϕ)
- poorly to moderately well developed shear planes and slickenslides occur intermittently throughout the interval
- pyrite occurs as xtls, blebs, and masses in the chert $fgts_{20}$, diss grains and blebs in the mtx_{81} and diss grains in the arg $fgts_2$

250

251.65 —

B-1-E_b-Mtx_{10}; Arg
Fgt_{70}: Arg (2 mm - 800 mm ϕ common, 3500 mm ϕ max - fgts w/dimensions smaller than width of drill core are subrounded to subangular)
- rock has the appearance of only undergoing minor slumping subparallel to bedding planes - a bimodal distribution of fgt sizes occurs - the planes where sliding occurred have fgts < ~5cm ϕ while the larger plates which slid may have thicknesses exceeding 1m - the slip planes have many fgts which are SS-1, f-c but these are probably fgts from sand

Gn Py Sid

253.64 — - agn-py-sid stringer

255

qtz

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

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260

265

270

B-1-E_b (cont.) - bands in argillites
- the upper 4 meters of the unit is silicified
- at 253.64 an 8cm contorted galena-pyrite-siderite stringer like silicified fgt is present - this gn-py fgt may be a disturbed vein, or a fgt of kneist which was caught up in this intraformational breccia
- at 260.6 a narrow (<1cm) quartz, pyrite, chalcopyrite veinlet is present
- thin (<2 cm) veinlets of milky quartz occur throughout the upper half of the unit
- poorly to well developed stylolites occur throughout this unit frequently giving an impression that the unit is contorted - these stylolites may represent stylolitic cleavage
- semi-consolidated fault gouge occurs from 271.00-271.08
- poorly to well developed shear planes and slickenslides occur intermittently throughout the unit
- pyrite occurs as fracture coatings, hairline veins, and diss grains in arg frequently concentrated along stylolites
- two 25-35 cm sandstone beds occur

271.95

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
		68°					A-2-c (A-2-b) - stylolites occur intermittently throughout the unit frequently causing a contorted appearance in the bedding - poorly to well developed shear planes and slickenslides occur intermittently throughout the unit - pyrite occurs as diss grains and fine to medium grained thin (<3 mm) beds in the argillite - a very strong affinity for the coarser silty and sandy beds is present - atrace of pyrite occurs in hairline veins and gashes								
		78°													
275		69°													
		69°													
		67°													
	G7														
		64°													
		60°													
280															
		68°													
		62°													
		65°													
		70°													
		70°					284.60								
285							B-1-E_b/A-2-c - Mtx: Arg Fgt: 10% Arg (1-40 mm ϕ common - angular to sub-rounded - 40-400 cm ϕ common - stratigraphic plates) - the bimodal size distribution is caused by the								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

B-1-E_b/A-2-c (cont.)

- style of deformation - plates of argillite (generally A-2-c although A-2-b, A-2-a, and A-2 are also present) have slid probably slowly and not very far causing little change in their bedding orientation and little internal deformation - at the planes of sliding the argillite has been well ground and the fgts rotated producing a relatively f. grained chaotic texture
- only one foreign lithology (a 6cm B-4-S) has been introduced on a slippage plane
- one graded 18cm SS-1 bed occurs at 292.4 - the fgt the bed is in does not appear rotated and the grading indicates younging up hole
- poorly to moderately well developed stylolites occur throughout the unit
- poorly to well developed shearplanes and slickenslides occur throughout the unit - fracturing is ubiquitous
- 306.83 - 307.13 - poorly consolidated fault gouge
- pyrite occurs as diss grains, blebs, xtls, and thin (<1 cm) fine to medium grained beds in the argillite
- bedding usually makes an angle of 65-75° to the core axis - an average of 70° CAB would probably be representative for a true thickness calculation

290

292.80
B-1
293.35
294.0
B-1
294.80

295

300

299.8 - 299.9 B-1

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							B-1-E_b/A-2-c (cont.)								
305															
							308.00 B-1								
							308.66								
310							310.4 B-1								
		50°					311.0								
		47°					A-3 - poorly to well developed slickenslides and shearplanes are present throughout the unit - pyrite occurs as diss grains, <2 mm xtls, and blebs throughout the argillite but primarily in the sand beds - the sand lenses show load structures on their bottoms? or the argillite laminations may be draped over them - many thin (<1.5 cm) beds are graded showing stratigraphic tops up hole								
		46° ↑													
	G7	44°													
315		44°													
		47°													

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason PAGE No. 2 of 26

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Ba, oz/ton Ag

A-3 (cont.)

318.9-318.95 - poorly consolidated fault breccia of A-1-a

F9

320.80

B-1-E_c - Mtx: Arg_{15} Fgt: $^{15}/_{85}$ Arg_{85} (1-150 mm ϕ common, 350 mm ϕ max, subangular to subrounded) - lithologies brecciated are all A-3 or A-2-c
- intraformational breccia
- poorly to moderately well developed shear planes and slickenslides occur intermittently through the unit
- poorly developed stylolites present
- pyrite occurs as diss grains, xtls, and fgts in the matrix $_{15}$ and diss grains and xtls in arg_{85} concentrated in the silty and sandy beds

323.65

A-3 - thin (<2 cm) graded beds and crossbedding indicate younging up hole
- poorly to moderately well developed shear planes and slickenslides occur intermittently throughout the unit
- pyrite occurs as diss grains and xtls (≤1 mm) throughout the unit but concentrated in the sand beds
- one minor (10 cm) band of internal deformation occurs

329.49

B-1-L - Mtx: Arg_{40} (percentage w/out 4.10 m A-1-b fgt included) Fgt: $^{40}/_{60}$ Arg_{60} (1-60 mm ϕ common, maximum clast size is possibly a 4.10 m intersection of A-1-b which is probably a boulder, angular to subrounded)

331.05

- 331.05 - 335.15 - A-1-b with a CAB averaging 15-20° and internal contortions suggesting that the block is a fgt

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-54 | CLAIM: Jason 55 | PROPERTY: Jason |

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED | SAMPLE INTERVAL & NUMBER

ASSAYS: ppm Pb | ppm Zn | ppm Ba | ppm Ag | ppm Cu | % Fe | ppm Mn

335

335.15

B-1-L (cont.) - poorly developed stylolites occur throughout the unit
- poorly to moderately well developed shear planes and slickenslides occur intermittently throughout the unit - relatively little fracturing is present
- pyrite occurs as diss grains and xtls in the mtx, and in the argillite primarily associated with sandy beds - this unit has relatively little pyrite compared to most units in this hole

A-1-b boulder

336.50

A-3 - minor internal dislocations occur
- poorly to well developed shear planes and slickenslides occur throughout the unit
- poorly to moderately well developed graded bedding and crossbedding indicate younging uphole
- pyrite occurs throughout the unit as diss grains and xtls concentrated in the sandy beds

65°

60°

60°

340

60°

340.70

B-2-L - mtx: Arg_{50} $fgts^{50}_{30}$ Arg_{48}, $Cht_{<1}$, Qtz-Sid-Py Veins$_2$, B-4-S$_{trace}$ (1-16 mm ϕ common, 30 mm ϕ max, angular to subrounded) - poorly to moderately well developed shear planes and slickenslides occur occasionally throughout the unit
- pyrite occurs as diss grains, blebs, and fgts in the mtx_{45}, as diss grains and blebs in the qtz-sid veins as diss grains and blebs in the arg fgts conc. in the sandy $fgts_{20}$, and as blebs and masses in cht $fgts_2$
- a large (2cm) qtz, sid, py cemented argillite fgt (stockwork fgt) is present at 342.20 - many other smaller fgts of similiar vein material occur in the interval 1 meter above this position
- some appear to be only slightly disturbed veins in the B-2-L - minor cpy and gn occur in qtz, sid, py fgts

qtz sid py cpy gn

342.20

343.20

83.9%

344.60

345

345.10

B-2-Ec

B-4-M - mtx_{40}: pebbly mudstone of argillite mtx w/sand sized angular to subangular cht fgts 20-25%
fgts: Cht_{55}, Arg_5 (2-10 mm ϕ common, 30 mm ϕ max, angular to subangular $fgts^{160}$ - highest proportion of angular fgts seen any where in this hole - poorly to well developed shear planes and slickenslides occur intermittently - the relatively minor amount of pyrite occurs as diss grains in the pebbly mudstone$_{10}$ and

345.19

84.0%

346.25

97.0%

344.85

AH-9808

346.85

ppm Pb	ppm Zn	ppm Ba	ppm Ag	ppm Cu	% Fe	ppm Mn
480	25	2260	1.2	77	3.80	1450

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason PAGE No. 24 of 26

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER (m)	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm Ag	ppm Cu	% Fe	ppm Mn
			qtz gn				B-4-M(cont.) - diss grains and blebs in the cht fgts$_{90}$ - this unit seems slightly silicified									
							347.75 - qtz vein w/gn B-2-E$_c$-Mtx: Arg$_{15}$ Fgt$^{15}_{85}$: Arg$_{82}$, Cht$_3$ (1-100 mm ø common, 280 mm max, angular to subangular) - several <5 cm fgt of a pyritized, silicified chert rich B-4-L rock are present - poorly to moderately well developed shear planes and slickenslides occur intermittently throughout the unit - pyrite occurs as diss grains, blebs, and fgts in the matrix$_{30}$, as diss grains, blebs, xtls, and masses in cht fgts$_5$, as diss grains and xtls in arg fgts$_{65}$, and as hairline veins in arg fgts$_{<1}$ - poorly developed stylolites occur throughout the unit - 347.75 - galena xtls and blebs in a narrow (<5mm) qtz vein	97.0%	AH 9807	110	9	2230	0.9	77	3.25	1040
								349.30	348.85							
350								85.6%	AH-9806	118	23	2570	1.3	87	2.65	845
								351.59	350.85							
								55.3 352.39	AH-9805	120	25	2670	1.4	68	2.45	790
							352.85 B-4-L-Mtx: pebbly sandstone (<4 mm ø - very sideritic w/minor py & slightly silicified), 20% fgts - cht & arg angular to subangular - Fgt$^{65}_{35}$: Arg$_5$, Cht$_{30}$ (4-60 mm ø common, angular to subangular) - trace cpy occurs throughout the unit as 1mm blebs associated w/cht or mtx - unit is slightly fractured w/minor poorly developed shear planes and slickenslides - pyrite occurs as diss grains and blebs in the mtx$_{95}$, and diss grains and blebs in cht fgts$_5$ - this unit correlates to 135.60-136.60 in 79-51, 277.55-278.85 in 78-41, and 231.40-235.20 in 80-55	96.7	352.85 AH-8375	1190	415	850	2.1	388	27.9	>20,000
							354.10 Possible Ore Zone Equivalent	354.10	354.10							
355								71.57%	AH-8376	109	16	2530	1.6	67	3.9	217
							355.80 B-2-E$_c$-Mtx: Arg$_{10}$ Fgt$^{10}_{90}$: Arg$_{88}$, Cht$_2$ (1-150 mm ø common, subangular to subrounded) - abundant fracturing occurs throughout the unit w/poorly to well developed shear planes and slickenslides - pyrite occurs as diss grains and blebs in the cht fgts$_5$, diss grains in the arg fgts$_{92}$ (sometimes concentrated in sand beds), and as diss grains and blebs in the mtx$_3$ - this unit correlates to the sulfide units at 133.7-136.6 in 79-51 and 275.84-277.55 in 78-41	355.80 67.79%	355.80 AH-8377	103	18	2550	1.7	58	6.0	590
			qtz				257.0 - 6.5 cm qtz vn	357.00	357.00							
								87.4	AH-8378	181	110	1660	1.3	150	11.7	1490
								358.45	358.00 AH-8379	133	73	2380	0.6	134	9.2	1230
								88.5	359.00 AH-8380	172	105	2190	1.2	220	8.6	1300
360			qtz				B-2-E$_c$-Mtx: Arg$_{15}$ Fgt$^{15}_{85}$: Arg$_{69}$, Cht$_{15}$, Py$_1$, B-2-S$_{<1}$ (1-130 mm ø common, angular to subangular) - cht fgts are all < 4.5 cm ø - a 6.5 cm qtz vein occurs at 357.0 m - minor thin (<5 mm) randomly oriented cross cutting quartz veins occur throughout the unit representing footwall kneist	360.27 100.0 361.50	360.00							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 79-54 CLAIM: Jason 55 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
			py				- a 7 cm colloform textured pyrite structure occurrs at 364.05 m - abundant py fgts and pyritized cht fgts occur from 361.5 - 363.40 - poorly to well developed shear planes and slickenslides occur throughout the unit - pyrite occurs as diss grains, blebs and fgts in the arg mtx_{90}, as diss grains and thin (<3 mm) finely grained beds in arg $fgts_{50}$, as xtls, blebs, rims, and masses in cht $fgts_{30}$, and as thin coatings on fracture surfaces - very minor thin qtz veins occur sporadically - this pyritic unit w/colloform textures correlates w/ 123.7 - 133.7 in 79-51 and 260.78 - 271.84 in 78-41							
365			qtz				—364.05m— 7cm colloform textured pyrite structure								
							366.50 $B-1-E_b$ - Mtx_{15}; Arg_{15} (SS-1-f,m) Fgt^{15}_{85}; Arg_{85} (SS-1-f,m), Cht_{trace} - 30% fine to medium grained relatively well sorted argillic sandstone beds which grade into well developed argillites are present which have been grouped with the argillites described in this unit - thin (<1.5 cm) milky white randomly oriented cross cutting quartz veins occur throughout the unit probably representing kneist - rock is slightly silicified in places - 384.96 - 385.57 - many siderite fgts are present in the breccia - poorly to well developed shear planes and slickenslides occur intermittently throughout the unit - pyrite occurs as diss grains, blebs, and fgts in the mtx_{15} and as diss grains and finely grained thin (<2 mm) beds in the arg and sst $fgts_{85}$ - pyrite is strongly concentrated in some sst beds - 383.0 - 384.75 - dark grey slightly carbonaceous sheared argillite fgts							
370															
375															

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-54 CLAIM: Jason 55 PROPERTY: Jason PAGE No. 26 of 26

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							B-1-E_b (cont.)								
380															
							383.0								
							-dark grey slightly carbonaceous sheared argillite fgts								
							384.75								
385															
							386.79								
							End of hole.								

090712

CORDILLERAN ENGINEERING —— DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM Jason-57 PROPERTY Jason PAGE No. 1 of 16

CORE SIZE NQ AZIMUTH collar 237.88m 225° 208° ELEV. COLLAR 1278.9m LOGGED BY K.I. Lu & R. Simpson

ANGLE of HOLE collar 237.88m -65° -46° TOTAL DEPTH 242.93m NORTHING 7,002,628.78 DATE BEGUN Jun. 16/1980 FINISHED Jun. 21/1980

SECTION % RECOVERY 79.54 EASTING 436,261.85 CORE STORED AT Jason Property

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS: SCALE: 1:100

Casing was extended to 27.43m due to hole caved in early stage of drilling.

DESCRIPTIVE GEOLOGY

% CORE RECOVERED

SAMPLE INTERVAL & NUMBER

ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

0m

Sperry Sun Test

Depth	Inclination	Azimuth
Collar	-65°	225°
30.48m	-67°	231°
76.20m	-61°	211°
121.92m	-57°	208°
182.88m	-52°	*212° (?)
237.88m	-46	208°

Overburden

*uncertain, 208° is chosen for cross section.

20m

23.77m

B-5-Eb

Mtx: B-2-S (Arg 70+ Cht 5+)

Fgt: Arg 60-70 (A-2-a-b mainly, 3-6cm/pc common, max 26cm across)

• one 6cm cht fgt. at 28.10m

41.8%

25

Office of the Supervising Mining Recorder DEC 9 1980 WHITEHORSE Yukon Territory

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Ditto (B-3-Eb) — 71.2%

G-7 to G-8 — 84.4%

30m — 29.90m — 78.3%

B-2-S like

B-3-Eb

Mtx: B-2-M (Arg≤+ Clt 10-15, <1cm ϕ common lower part larger fgt?)

Fgt: Arg 20+ (mainly A-2-a-b. 5-10cm ϕ common, 33cm across one.) — 91.5%

• crude grading? (upper part matrix finer and lower part matrix coarser) — 75.0%

35m — 78.7%

B-2-L like

37.57

B-3-Eb — 98.0%

Mtx: Pebbly mudstone (Arg≫Clt max 2.5cm ϕ few?)

← TORN UP BRECCIA FRAGMENT

Fgt: Arg 60-70 (5-10cm common, (max 46cm) — 90.2%

40m — 89.5%

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON PAGE No. 3 of 16

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
	G-7 to G-8						DITTO (B-3-Eb)	77.6%	43.28				
								100.0%	44.20				
45								100.0	45.42				
	"							65.8%	46.94				
				f_8			46.94 Very poor recovery (fault gauge)	16.4	48.77				
	"						48.77						
50								61.2	50.90				
	"							100.0%	53.04				
								82.4%	53.95				
	"						53.95 poor recovey (fault gauge)	39.3	55.78				
55							55.78	98.9%					

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							DITTO (B-3-Eb)		57.61						
								68.4%	59.13						
60								82.6%	60.05						
								62.8%	61.42						
				S			61.42 gauge (sheared)	69.7%	62.18						
								86.3%	64.01						
65								39.6%	65.07						
								62.3%	65.84						
								63.1%	67.06						
							67.06	57.14%	67.97						
								59.3%	68.88						
70								69.9%	70.41						
								64.8%	71.32						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

DITTO (B-3-Eb)

· from 85m to 96m. mostly consisted of Arg fgt. rare matrix.

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER
86.0%	73.76
100.0%	75.13
59.15%	76.50
76.0%	78.33
74.5%	79.86
77.6%	81.53
106.6%	83.82
87.2%	85.50
49.1%	86.56

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

Ditto (B-3-E6)

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER
70.7%	88.54
82.7%	91.14
81.8%	93.88
68.9%	95.55
77.9%	96.32
93.1%	99.06
96.7%	

ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

90

95

100

100.50 — B-2-M~S-graded

Fgt: Arg 40~50 Cht 30+ (<2 Cm ø, Top 10 Cm SS-S-S~SS-1-C)

101.61 ↑ — transitioned from lower part.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON PAGE No. 7 of 16

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
	G-7 to G-8						↑ gradual transitioned to B-2-M B-3-Ec Mtx: B-2-L (Arg 50+ Cht 15+; cht fgt size <0.5cm φ in general, lower part larger size) Fgt: Arg 25- (5cm~20cm larger fgt at lower part)	97.7%	102.11				
							103.46						
105							B-3-Eb Mtx: B-2-L (Cht 40+ Arg 40- <4cm φ at upper part, Arg 70 Cht 10- <5cm φ at middle part and finer at lower part) Fgt: Arg 40- (5~10cm φ common, 32cm across max.)	75.1%	105.16				
								78.7%	107.29 107.90				
							108.51						
110	G6 ~ G7	35 45 45					A-1-b • mainly A-1 ~ A-1-a (1~3 vol.% silt ~ ss lam. local 5 vol.%) • ripple x-lam ss band in every one ~ two meter	91.9%	110.64				
	"							91.0%	111.86				
	"						111.86	41.0	113.08				
	G5			S			113.08	81.9%	114.30				
	"	45						61.5%	115.52				
115	"	40 40					} A-2-c like	95.6%	116.43				

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON PAGE No. 8 of 16

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
	G6 ~ G7	35 / 45	Qvlt				Ditto (A-1-b)	85.0%	117.35				
			Qvlt					82.6%	119.48				
120							119.95 — B-5-E b		120.40				
							more finer cht. fgt in matrix (B-2-L) · Mtx: B-2-L (Arg 50~60 cht 5~20 varied in local, <2 cm φ common, max 4 cm φ ±)	92.5%					
							Fgt: Arg 60+ (5~8 cm common, one 36 cm across)		122.53				
							· Matrix composition varied in local	76.9%	123.44				
							· larger fragments found more in lower part						
125								86.5%					
									126.03				
								86.9%	127.10				
								74.3%					
									128.93				
								90.0%					
130									130.15				
							130.95	87.3%					

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON PAGE No. 9 of 16

COMMENTS:

DESCRIPTIVE GEOLOGY

B-6-Ec

Mtx: B-2-M (cht 60+ Arg 30 <1 cm ϕ in general)

Fgt: Arg 20 (5~10 cm ϕ common, max 30 cm)
Cht 1>3 (2~6 cm ϕ)
SS-1-m (7 cm one)

135.76 finer fgt. (<1.5 cm)
136.29 some Arg rip up clast
Arg fgt. about 5 vol% <5 cm ϕ local B-2-M like
137.5 SS-1-c
137.9

B-5-Eb

Mtx: B-4-M (SS-1-c matrix with cht 40+ Arg 10+ <1 cm ϕ.)

Fgt: Arg 10- (1.4 M across A-2-a boulder at lowest part of this unit, few 10~20 cm ϕ A-2-a~b fgt. mostly 3~5 cm ϕ. especially upper part)

141.14

A-2-a boulder

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
								132.59				
	G-4						82.5%					
135								134.87				
	G-2	37					89.3%					
	G-5							137.77				
							82.1%					
140								140.51				
							95.7%					
								143.56				
145							88.2%					
								146.61				

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

boulder

147.8

B-5-E_c

92.7%

MATRIX: B-4-L (SS-1-C matrix with CHERT 65+ ARG_{20-} < 5 cm ϕ)

$FRAG_{35}$: ARG_{30}, $CHERT_5$ (6~10 cm ϕ, max. 26.5 cm ϕ)

84.3%

149.35

150.88

152.4

95.4%

SS-4-L~S alternated with some B-4-M~S beds

- EVIDENCE OF GRADING LOCALLY BUT NOT WELL DEFINED
- $FRAG_{30}$: $CHERT_{25+}$ ARG_{5-}, GENERALLY S-M (SIZE) AV. 1-3 mm., LARGEST 1.3 cm

153.92

154.0

B-4-L&M

MATRIX: SS-1-C.

$FRAG_{30}$: $CHERT_{20-40}$ ARG_{10-25} (LARGEST FRAG. 65 mm, AV. 10-15 mm)

155.0

finer grain

SS-4-M~S alternated with B-4-M~S.

- LARGEST FRAG. 15 mm., AV: 3-8 mm.
- EVIDENCE OF GRADING LOCALLY
- BANDING (COARSE TO FINE GRAINED)

83.3%

coarser grain.

156.6

156.97

B-6-Ec.

77.1%

MATRIX: B-2-L (Cht_{30} Arg_{40} 0.5~3 cm ϕ common, max 6 cm)

158.80

FRAG: Arg_{40+} (5~10 cm ϕ mostly one 16 cm ϕ)

one SS-1-C (8 cm ϕ)

(Cht. few 3 cm ϕ may be fgt)

43.5%

159.72

68.1%

160.6

160.63

B-3-E_b

59.9%

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON PAGE No. 11 of 16

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							B-3-Eb - MATRIX 20-30 : Pebbly sandstone (Cht ≥ Arg) (locally B-2-L like. - FRAG. 70-80 : CHERT60, ARG40 - MINOR FRAG OF A-3 WITH > 5% BISCUIT SHAPED CROSS-LAMINATED SAND BANDS - LARGEST FRAG. 1.05 m - < 1% BLACK, VESSICULAR FRAG., (POSSIBLY VOLCANICS - PUMICE ?)	80.3% 64.8% 95.8% 100.0%	163.37 164.59 165.81 167.95 169.77				
165													
170							170.0 — A-3 - > 5 VOL. % BISCUIT SHAPED CROSS-LAMINATED SAND BANDS THROUGHOUT UNIT - MINOR CONTORTIONS DUE TO SLATY CLEAVAGE - 10-15 % TOTAL VOLUME OF SAND BANDS	66.2% 80.3% 87.7%	171.91 173.74				
175		20°					175.40 — B-5-Ec MATRIX : B-2-M (CHT65 Arg20-, < 1.5 cm ϕ) FRAG : Arg 75-80 (platy max 18 cm ϕ)		176.17				
		20°	QTZ VTN										

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON PAGE No. 12 of 16

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (B-5-Ec)						
							177.6 — B-5-Eb	83.6%					
							B-2-L with few Arg fgt (<10cm φ)		178.31				
							Mtx: B-2-L (Cht 40+ Arg 30+ <2cm φ common some <4cm ~2cm φ).						
							Fgt: Arg 50+ (<45cm φ mostly >10cm φ at lower part)	97.5%					
180							mostly Arg fgt (<45cm ~10cm φ)						
							180.70 — B-3-Eb		180.75				
							Mtx: Pebbly mudstone (Arg 15- Cht 5+ <1cm φ mostly few 2cm φ +)	92.2%	182.42				
							Fgt: Arg 45+ (max. 85cm across, 25cm 40cm common.)	91.4%	184.40				
185							←25cm thick SS-2-cmf in Arg fgt.	78.2%	186.84				
			PY					74.3%	188.98				
							189.5 — B-6-Eb	72.5%	189.89				
190			PY				Mtx: B-4-L (SS-1-C matrix with fgt. of cht 30+ Arg 15+, mostly <2cm φ, some 3~4cm φ)	69.7%	191.11				
			QTZ				Fgt: Arg 15+ (15~25cm φ common. Some 5~10cm φ) SS-1-C, M 5~7 (max 80cm, some 5~10cm φ)	60.6%					

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON PAGE No. 13 of 16

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe_2O_3	PPM Mn
							Ditto (B-6-Eb) · some 4~5 cm ϕ cht fgt. · Arg. fgt. are mostly A-3 ~ A-2-6 · larger fgt. are found in upper part and lower part of this unit.	76.6%	192.48							
								83.1%	193.55							
195								97.7%	195.38							
							← BRECCIA FRAG. WITHIN THE BRECCIA.	99.3%	198.43							
200								201.47								
							202.25 – 203.05 SS-1-m · highly sideritized · boulder	88.0								
		Qz sid VIT						204.22	203.50 – 204.50 8360	52	465		0.3	111		
205								51.9								
								205.74	8361	92	124		0.8	45		
								43.4								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON PAGE No. 14 of 16

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: PPm Pb	PPm Zn	PPm Ba	PPm Ag	PPm Cu	% Fe_2O_3	PPm Mn
	G-8						207.26 — A-1-a.	207.26 / 44.3 / 207.27	207.26m / 8362	49	131	2730	1.1	65	3.3	335
							SLICKEN SIDES	47.5 / 208.48	208.0m / 8363	86	80		1.1	79		
				F-7 6 F-8				66.1	209.0m / 8364	66	31		0.8	60		
210							210 — A-2 WITH LOCAL A-2-b (ex. 214.13 - 214.63 m) - SILT LAM. ARE 0.3 - 1.0 cm.	210.16	210.0m / 8365	106	94		1.0	138		
			QTZ ↓ IY					85.4	211.0m / 8366	76	68		0.8	90		
							EARLY STAGES OF KNEIST	212.14 / 100.0	212.0m / 8367	105	78		1.2	100		
							- GRADATIONAL INCREASE IN NUMBER AND THICKNESS OF SAND-SILT BANDS	213.36	213.0m / 8368	46	224	2040	1.0	154	10.6	1570
							- SAND BANDS SHOW GRADING AND CONTORTION DUE TO FOLDING AND SLATEY CLEAVAGE	66.7	214.0m / 8369	78	171		0.8	65		
215			QTZ SIV PY					215.69	215.0m / 8370	88	218		1.0	62		
								71.7	216.0m / 8371	84	165		1.1	76		
								217.01 / 84.8 / 217.47	217.0m / 8372	70	400	2080	0.8	84	7.9	1100
				F-4				64.8	218.0m / 8373	42	290		0.4	57		
			G1	F-6			219.00 — B-6-Ec	218.69 / 80.4 / 219.15	219.0m / 8374	57	57		0.8	86		
220							FINER ↑ COARSER } cht. fgt. Mtx: B-2-M (Cht20+ Arg40- <1.5 cm ϕ) Fgt: Arg 35 (max 22 cm, mostly <15 cm ϕ) Cht 5+ (max 6 cm)	69.7	220.0m / 9809	54	25	2080	0.9	50		340
								221.89								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb ppm o/o	Zn ppm o/o	Ba ppm o/o	Ag ppm oz/ton	Cu ppm	Fe_2O_3 %	Mn ppm
							COMMENTS:									
							Ditto (B-6-Ec)									
							B-6-L, B-5-L, B-4-L & M occur in 20~60 cm thickness	71.0%								
							223.6 — Mtx: Pebbly ss (cht>Arg.) ~ B-2-M~S (cht 30~50 Arg 20~30)		223.6							
							Fgt: Arg 10~30 cht 0~20 (varied in different units	224.03	RS-9810	62	34	1610	1.2	60		130
							224.6 — max. 6 cm ϕ, 1~2 cm ϕ common)		224.6							
225							B-6-Ec	87.9%								
							MATRIX: B-2-L (locally Pebbly mudstone) cht 10, Arg 30- (max 2 cm ϕ, 1 cm ϕ common)		RS-9811	53	50	2490	0.6	71		265
							FRAG: Arg 50- (max. 23 cm across, 5~10 cm ϕ common)		227.08							
							Breccia (B-3-L, B-4-L max 20 cm.)		RS-9812	108	63	2320	2.0	50		475
							* COULD BE A MORE DETAILED CLASSIFICATION — cht, (?) 4~5 cm ϕ as fgt like.	74.2%							
							229.4	229.06	229.4							
							B-1-L (Boulder ?)	76.3%								
							- ARGILLITE MATRIX WITH ARGILLITE FRAGMENTS (A-2)		RS-9813	805	130	2580	15.	146		190
							- RARE CHERT FRAG. (LARGEST 4 cm)	230.58								
							- AV. ARG. FRAG. 2-4 cm. WITH MANY CUT ALONG THE SHORT AXIS	72.0%	231.40						
			LAM PY					231.65	RS-9814 [ASSAY] RS-9820 [GEO CH&M]	150	55	2400	2.5	71		245
			DISS PY				B-4-L; [-SULFIDES ARE DISSEMINATED AT THE TOP AND BOTTOM OF THE UNIT.]	73.6%	232.5							
							MATRIX 40: SS-1-C ~ SS-5-C (cht ≫ Arg)	232.71								
							- FINE GRAINED 1/32 - 1/8 ϕ PYRITE MAKING UP AS MUCH AS 30% OF THE MATRIX		RS 9815 [ASSAY] RS 9821 [GEO CHEM]	350	200	740	42	44		585
							FRGT 60: CHERT 45 ARG 15 (subangular ~ sub round. 2 cm ϕ common, max. 3.2 cm ϕ	96.4%	234.0						
							POSSIBLE ORE ZONE EQUIVALENT	234.39	RS 9816 [ASSAY] RS 9822 [GEO CHEM]	1800	52	590	5.6	110		440
235			DISS PY Qz VN				235.2	67.2%	235.2							
							A-2-a	235.61								
							- WELL DEVELOPED "KNEIST" (SIDERITE AND QUARTZ ALONG IRREGULAR FRACTURES)	88.5%	RS-9817	400	25	2230	1.4	84		345
								236.83	237.0							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-55 CLAIM: JASON 57 PROPERTY: JASON PAGE No. 16 of 16

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm ~~%~~ Pb	ppm ~~%~~ Zn	ppm ~~%~~ Ba	ppm oz/ton Ag	ppm Cu	% Fe_2O_3	ppm Mn
			Qz Sid. VIT				DITTO (A-2-a)									
			"				• Silt~SS up to 3cm thickness. few.		RS-9818	220	19	2620	0.5	105		1720
			"				• blue-colored chloritic clay coated in fractures	90.3%	239.0							
240			"					240.03	RS-9819	150	122	2630	0.5	42		2000
			Qz Sid PY				240.7	53.0%	240.7							
							SS-1-m~c		241.71							
							- INTENSE KNEIST AND CLAY MINERAL ALTERATION ??	97.5%								
							242.92		242.93							
							HOLE END									
							AVERAGE RECOVERY	79.54%								

090712

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A | CLAIM Jason 55 | PROPERTY Jason | PAGE No. 1 of 44

CORE SIZE 0~363.32m HQ, 363.32m~647.40m NQ | AZIMUTH Collar 228°, 646.18m 164° | ELEV. COLLAR 1230.0m | LOGGED BY P. C. Hubacheck, R. J. Bailes & K. I. Lu

ANGLE of HOLE Collar -70°, 646.18m -22° | TOTAL DEPTH 647.40m | NORTHING 7,002,464.28 | DATE BEGUN Jun. 25/1980 FINISHED July 18/1980

SECTION | % RECOVERY 76.00 | EASTING 436,749.67 | CORE STORED AT Jason Property

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | SCALE: 1:100 | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS (% Pb, % Zn, % Ba, oz/ton Ag)

DESCRIPTIVE GEOLOGY

0m

Overburden

Sperry Sun Test

Depth (m)	Inclination	Azimuth
Collar	-70°	228°
30.48m	68°	224°
91.44	66°	228° (?)
152.40	64°	213°
213.36	64°	216° (?)
274.32	61°	206°
362.10	57°	204°
365.76	56°	348° (?)
373.38	56°	201°
381.00	55°	209° (?)
388.62	54°	209°
396.24	51°	204°
403.86	49°	195°
411.48	46°	200° (?)
426.70	43.5°	193°
457.20	43°	199° (?)
487.68	40°	191°
518.16	36°	189°
548.64	31°	185°
563.88	31°	176°
571.50	30°	187° ---- Po

Sperry Sun Test cont'd.

Depth (m)	Inclination	Azimuth
579.12m	29°	174°
586.74	28°	150° ---- Po
594.36	28°	192°
601.98	27°	223° ---- Po
609.60	28°	209° ---- Po?
646.18	22°	164°
Depth (m)	Inclination	Azimuth

Office of the Supervising Mining Recorder
DEC 9 1980
WHITEHORSE
Yukon Territory

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 2 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
15							Overburden								
18.89							18.90 m								
20							B-5 - E_c B-2 matrix; E_c Argillite Fgts 30% 70% 10-30% - S chert 90-70% - S to M Arg.								
25															

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56.A CLAIM: Jason 55 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
			py				replacement chert pebble Ditto (B-5-Ec)								
30							31.0 B-1-E_b Arg. mtx 70%, Arg. fgt 30% fgt: Arg 1-2 cm common, wispy, lenticular plates fgt - Arg. 3-5 cm common, angular, blocky - large boulders 35-40 cm								
	66														
	67														
35	"														
	"														
	"														
40	"														

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A | CLAIM: Jason 55 | PROPERTY: Jason | PAGE No. 4 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
	66														
	67						B-1-Ec								
							matrix fragments - consistent weak bedding								
45							45.37								
							B-5-EL								
							mtx: B-2-Ec (cht 40+, <6 cm ϕ, Arg 30+ <10 cm ϕ few CSS & B-4-S fgt <4 cm ϕ)								
			FY				Fgt: Arg 30+ (10-15 cm ϕ common, one 64 cm across, and one B-1-L boulder)								
50			sph				← Sp dissem (10%+) cht fgt.								
			PY												
			Sph												
			SFY												
55															
							56.62 — B-1-L boulder								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No 80-56A | CLAIM: Jason 55 | PROPERTY: Jason |

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

(B-1-L) boulder Ditto (B-5-Eb)

58.65

60 — Sph

60.00 Py dissem (10 vol%+) in B-1-L matrix. (10cm) Sp fgt 2cm⌀ two.

62.50

B-5-Eb

Mtx: B-4-L (pebbly mudstone matrix cht 5~7 Arg 10+ <1cm⌀ fgt: Arg 60+ cht 1~3 <5cm⌀)

Fgt: Arg 75+ (mostly B-1-L like fgt., 1" across, lower part 3.77m B-1-L boulder?)

65 — 65.10 — B-1-L

68.87

B-5-Eb

Mtx: B-2-L ~ 5. (Several units; similar composition but size varied; cht 55~60 Arg 10~15.)

Fgt: Arg 30+ (5~10cm⌀ common 45cm max.)

70

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 6 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-5-Eb)								
							• several units, gradual changed from underlain unit.								
75		↑ graded					↑ crude boundary 74.98 B-2-S - graded Fgt: cht 40 + Arg 30. 75.78 gradual transition								
							B-6-Eb								
							Mtx: B-2-L (Cht 30 Arg 50, 1~2 cm ϕ common, 2.5 cm ϕ max.)								
							Fgt: Arg 50 (10~15 cm ϕ common, 95 cm max) Cht 1± (up to 7 cm) few SS-1-C and one 12 cm ϕ B-2-S fgt containing sp fgt (<5 mm ϕ)								
80															
85			sph												

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No 80-52A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 7 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-6-Eb)								
							.87.78								
		grad					B-2-L~S-gradded.								
							Fgt: cht50+ Arg40- upper most part <0.8cm φ cht S Arg even size lower part coarser up to 1.5cm φ and Arg fgt up to 2~4cm φ)								
90							89.50								
			sid spk				gradual transition matrix & fgt. fining upward								
			sph gal												
							B-5-Eb								
							Mtx: B-2-L (as above, but coarser, <5cm φ)								
							Fgt: Arg20+ (10~15cm φ common, max 60cm φ)								
95															
	69	47°	GF				98.44								
				Ss			B-5-Eb highly sheared - relict bedding preserved								
							Mtx: B-2-S~M (cht50 Arg40-, <1cm φ mostly some 1.5cm φ)								
100	69			f3			Fgt: Arg30+ (5~10cm φ common, one 70cm φ)								
							} fault: } rubbly text.								
				f3			} fault?								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 8 of 44

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (B-5-Eb)						
							· fairly broken, fault gauge and poor recovery part commonly seen		103.48				
								29.9					
105									104.85				
								26.3	105.61				
								35					
									106.98				
								22.9					
							108.71		108.51				
				f (10)			fault gauge poor recovery (20%±)	19.8					
							109.72		109.42				
110							B-4-L Mtx: Pebbly mudstone (<0.8 cm ⌀ Chl 15-20 Arg ±) Fgt: Arg 10, Pyritized C-SS. (<6 cm ⌀						
			PY				110.64						
				f6			fault gauge B-1-Ec Arg. mtx 30% 2-4 cm common fgt - 70% - up to 30 cm						
115													

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: / DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

B-1-E_c

119.95

B-6-E_c

mtx: B-2-M (cht 45 Arg 30-35, <1cm ϕ)

fgt: Arg 40 (25~35cm common 45cm max)
cht 10- (2cm ϕ ± common some 4-5cm ϕ
ss <1 (coarse ss. one 8cm ϕ

• upper part B-4-L like.

120

125

evidence of stratification of platy fgt.
increase in coarser platy Arg. fgt.

130

130.75

B-1-E_c

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason ff PROPERTY: Jason PAGE No. 10 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		

B-1-Ec Mtx - 20% fgt 80%

---ss fgt. 5 cm

A-3 fgt - 25 cm

Mtx - Arg fgt - 1-3 cm

fgt - various Arg. boulders 25-35 cm.

135

140

139.90

B-4-L pebbly mudstone mtx - 80% fgt - 20%

Pebbles - chert pebbles 30% 1-2 cm common - wide range in in pebble size (med. sand to granules)

Arg fgt - 70% 1-2 cm, some larger fgt 3-5 cm

mtx - Arg. mudstone

142.70

B-1-Ec Arg. fgt - 100% - large blocks (40-50 cm) of similar composition A-2a, probably derived from same slump block.

145

146.80

B-5-Ec

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason ff PROPERTY: Jason PAGE No. 11 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		

B-5-Ec B-3 mtx - 60% Arg. fgt - 40°

Mtx - B-4 pebbly mudstone
chert 15% - .5-1 cm common
up to 3cm < 1%
Arg fgt - 15% platy
mud - 30%

150

fgt - A-2 . 15-20 cm

150.58

B-6-Ec.

B-2 mtx 80%, fgt - 20%

155

highly variable size distribution

mtx: chert 1-3cm common 20%
Arg. 2-4cm common (platy) 30%
ss-s local 5%
mudstone - 25%

fgt: chert: 5-7 cm - 5% - well rounded
Arg: 5-8 cm 15% - angular, blocky
ss-m-c.: at upper part as patch(?) (or bed:)

160

69

160.53

fs

160.92 fault gauge (?) finely broken

B-5-Eb

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 12 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							B-5-Ec : B-2 mtx 50% fgt-50°						
							Poor core recovery. Mtx: chert 2-4mm common 10%	50.0	163.22				
							Arg (platy) 1-2cm 70%		163.98				
165							fgt: Arg - 25-30 cm	67.3					
			qz				3-5 cm blocks common		165.03				
									166.57				
							Poor core recovery	52.3	167.64				
							increasing B-2 matrix moderately pyritic 5-10% fgts and disseminations in mudstone matrix						
170							B-5-Eb B-2 mtx 80% fgt 20% decrease in size of large boulder fgt.						
									173.74				
								58.5	174.80				
175								64.5	175.56				
							Poor core recovery	49.2	176.78				

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 13 of 44

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							dominantly B-2 matrix						
180							180.40						
							181.36 poor recovery; 182.27	35.2	181.36; 182.27				
							B-5-E_B B-2 mtx 30% fgt-70% mtx - chert .5-2 cm common 80% Arg - 1-3 cm common 20% (generally clast supported) fgt - Arg 10-15 cm common						
							183.79 poor recovery	29.7	183.79				
185							185.17		185.17				
							• fairly broken, many parts poor core recovery						
							186.54	26.3	186.54; 187.30				
							Very poor recovery	16.1	188.67				
								21.3	189.28				
								49.2	189.89				
190							189.89						

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 14 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-5-Eb)								
							fairly broken								
							194.10								
195							B-5-Ec Mtx: B-2-L (Cht15, -0.2~0.4mm common, few 1cm φ, Arg 50+, <2cm φ common few 3.5cm φ Fgt: Arg 60. (5~10cm φ common, max. 42cm)								
							197.10m								
			Qvlt				B-1-Eb Fgt: Arg 85+ (A-2-a, A-2-b common. few A-1-a, slabs up to 2~3m across are common								
200															
			Qvlt												
205															

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

DESCRIPTIVE GEOLOGY

Ditto (B-1-Eb)

- from 208.79m to 213± m. intensely sheared, bedding structure and veinning intact ∠ very crumbly core - decomposed to clay.
- Py-Qz veins intense, sub-parallel to core.

210

210.62

no core

212.14

215

Py
Qz

220

% CORE RECOVERED: 210.62 — D — 212.14

SAMPLE INTERVAL & NUMBER: 210.62 — 212.14

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: JASON

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-1-E6)								
225							225.86		225.86						
	6						Poor recovery	27.3							
							227.69		227.69						
230															
				f			Fault gauge (?) - severe crushing - broken arg Fgt in clay matrix.								
235							Highly fractured rock								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80 - 56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 17 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
				1			Highly fractured rock	47.5	237.13 – 238.35						
240															
	6						B-1 E_b as above								
245			Q												
				fg											
250															

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason #5 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
255	6		Q	f8 f7			Ditto (B-1-Eb)								
260			Q												
265			Q	f6											

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason Ext PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

270

6

Py

Py

275

f_4

Ditto (B-1-Eb)

- after 270 ±, Arg fgt. are much more A-1a and A-1-b some A-2 type rock

277.98

45.1

279.20

280

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80 - 56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 20 of 44

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
				py			py. nodules 3 cm. injection(?) of pebbly sandstone						
285			Q										
			py				py nodule						
	6						B1 Eb, as above						
290			Q										
			py				Graded into pebbly sandstone and into B4M Could be local channel or perhaps injection ?? 2 % disseminated py						
			py				Injection(?) of pebbly sandstone, about 5 cm 5% diss. py						
								69.7	292.61				
							294.13		294.13				
295				fe			Very poor recovery . Possible fault zone(?) from 294.13m to 297.1m	5.2	295.66				
								79					

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

297.18

51.3

297.18

298.70

• 297.2 to 304.8 contains 1 - 5% disseminated fairly broken possible fault zone rim.

300

f_2

f_5

py 3%

7 wet ?

B_1 E_b,

f_2

305

305.90

B_1 E_b Mat 5% Frgs 95% up to 2m slabs

6 45° P

slumped slab ?

A_3 ? Biscuit shaped sand bands about 20%, 0.5-2cm thick - unit may be a large slab in B_1 ?

Q Ca py

310

B_1 - A_3 frgs 30% - mainly sand bands
A_1 mat. 70%

slab A_{2a}

Matrix

Fragment

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 22 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
315															
	6						B, E_b Mat 5% Frgs 95% 25cm-2m Fragments include variable amounts of A_1, A_2, A_{2a}, A_{2c}									
320				F3											
				F2											
325															

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 23 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
			sp sp				Sp occurs in 1-2 cm irregular veinlets of qtz-siderite-carbonate. Similar veinlets (without sp) occur locally								
330							B, Eb Mat 5% Frgs 95% as above								
	6		Py Py				Py 2% in fine veinlets								
335							337.6m — 337.9m — B2 S Mat 50% Frgs 50% ave 5 mm ϕ								
340							B, Ec chaotic slump breccia								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

B, E$_c$ → B, E$_b$ downhole

Matrix: A_1 mudstone making up about 25% of the rock
- Contains py blebs up to 1 cm which make up about 5% of the unit - (probably fragments)

Fragments: A_3 A_2 and A_1 fragments 75%, average 5 cm but vary from 0.5 to 40 cm. - angular + chaotic
Fragment size increases downhole
- Contains rare cherty frags up to 5 cm ϕ as well

345

py 5%

py 5%

6

350

py 5%

10 cm zone of qtz - carb - sid ?, py - ser stockwork

Pebbly Mudstone A_1 matrix 40%
$A_1 + A_2$ frgs 40% 1 - 3 cm ϕ
chert pebbles 20% 1 - 3 mm ϕ
20% locally up to

352.6m

py 5%

sp

- pyrite, blebs (fragments) up to 0.5 cm ϕ
- sphalerite runs about 10% of similar habit as pyrite, for about 3 cm before the fault gauge, pyrite increases in this area as well (gravity settling ??)

f_2

354.5m

355

py 5%

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 25 of 44

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
			PY 2%				B_1 E_c local E_b / same as unit above the SS5 pebbly mudstone Contains trace cherty frags and could be a B_2								
360	6		PY 2%												
							-pyrite occur as disseminations (fragments?) and as local veinlets								
			PY 2%				363.32m HQ reduced to NQ		HQ / NQ						
365							B_5 - Transition zone between B_1 and B_6								
							366.0m								
			SP 20%				6 cm bed of SS-1, 0.5-2 mm; 40% chert, 10% py, 20% sphalerite in a 30% mudstone matrix. Sulphides could be disseminations or fragments.								
370	4						F U various units fining								
							B_6 L/E_c - Matrix, variable B_2, local B_4? making up 90% of unit, locally clast supported; Matrix fragments, subangular to subrounded, 50% chert, 50% argillite, 0.5-2cm ϕ, 60-100% of mat. - Fragments, angular, 5-10 cm ϕ 10% of unit, variable. A_1, A_2, SS_5, SS1c								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 26 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
	4						↑ fining — This unit is made up of several subunits which fine up the hole and have increased matrix %								
							— C-3-M - could be a fragment ??								
375			SV	f2			375.20m — SS-4-c-f. about eight fining upward sequences in this unit, 5-20 cm thick - up to 1 cm subangular to angular fragments at the base of the sequences fining up to a fine grained ss at tops. 30% cherty frags 20% argillite frags. (large fragment ??)								
							F u several sequences fining uphole								
							377.04m								
	6						B6 Eb 10% Mtx: B2 90% Frgs: A2a-40, A3-20, A2-20 B4-10, Maximum size 60cm, average 5-20 cm.								
380															
385															

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 27 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
							B_6E_b, as above								
390															
							393.0m								
							A_3 - could be large block in B_6 ?? contains about 10% sand bands up to 3 cm. thick, locally rippled.								
395		60°													
		60°													
							398.28								
							B-6-E_b								
							Mtx: B-2-L (fgt. cht30, Arg45, SS5-; <4.5cm ϕ 1cm ϕ common, upper part matrix finer)								
400							Fgt: Arg 70+ (max. 1.59m across, one 67cm ϕ 5-8cm ϕ common)								
							400.56 SS-5-M_{1+} (SS-1-C matrix with <1cm ϕ cht3-5 Arg5+ fgt. SS-1-max_{1+} (<8cm ϕ)								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 28 of 44

m SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							402.11 Ditto (B-1-Eb)								
							403.25m		1						
							B-1-Eb								
405	GY						Fgt: Arg 95+ (A-2 ~ A-2C, A-3 and A-1-a; 1m across boulders common, max 3.10m (+) across)								
							· locally contorted.								
410			GP	VN			410.20 Sp knots 0.5cm ± x 1~2 cm, few								
			QS				gauge 10 cm								
415									416.97						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

417.10

Ditto (B-1-Eb)

23.5

417.27

29.0

419.10

1

A-3 boulder
(A-2 type)

90.1

420.01

*** This unit (403.25m ~ 422.20m) correlated to 405.0m ~ 424.59m in DDH 80-56B.

36.0

422.20

422.76

B-1-Eb

Fgt: Arg 90± (A-2-a, A-2-c, & A-1-a, max. 1.1m across few 60~80cm±)

425.0

A-1-b

426.1

429.46

8.9

Very poor recovery

*** this unit (422.20~432.82m) correlated to 424.59m ~ 440.74m in DDH 80-56B

431.6

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason ext PROPERTY: Jason PAGE No. 30 of 44

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Ditto (B-1-Eb) — 6.6

432.82m — 432.82

B-3-Eb

Mtx: Pebbly mudstone (Cht 5 <0.5 cm ϕ, Arg 5+ ≤1 cm ϕ, Sandy size cht. sprinkled)

Fgt: Arg 60+ (37 cm & 57 cm boulders, <10 cm ϕ common)

435

435.42m

B-6-Eb

Mtx: B-4-M in general

(Mtx: pebbly mudstone some sandy size cht fgt. sprinkled in local. Cht 3-10 Arg 5~10+ <0.5 cm ϕ.

Fgt: cht 10~35 Arg 15~40+ ≤1.5 cm ϕ fgt. some B-4-M

locally B-2-M~L like and cht. Arg. fgt. content and size varied.

Fgt: Arg 30~40 (5~15 cm ϕ common 70 cm ϕ max.)

444.70

Breccia 30+ (30~50 cm ϕ common, 82 cm ϕ max, B-4-M, L common, some B-1-L, 31 cm ϕ) — 37.6

Conglo 1+ (C-2-L, 1.55m)

446.83

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED | SAMPLE INTERVAL & NUMBER

ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

447.18

gauge
(B-4-L like
decomposed-clayey
consistency)

f_8

34.1

448.97

fault?

450

450.20

39.5

450.49

B-1-Ec

Fgt: Arg 80 (<20 cm ϕ; 10-15 cm ϕ common)

33.6

451.71

41.3

452.63

452.63

• highly broken, lower part poor recovery

21.9

454.46

456.46

455

gauge
(B-4-L like
decomposed-clayey
consistency)

f

61.7

456.29

fault 6

25.0

457.40m

457.81

Qt

B-1-Ec

Fgt: Arg 80+; (<10 cm ϕ ?)

• highly broken

460

461.32m

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

B-1-Ec
Fgt: Arg 80± ; (<10 cm ϕ ?)
highly broken

464.21

465

B-6-EB mtx: 25% fgt: 75%

mtx: B-2-L highly variable fgt composition mtx supported

Arg. fgt	2-4 cm	40%
Chert fgt	1-2 cm	25%
ss fgt	1-3 cm	5%
C-2 fgt	1-3 cm	5%
mud mtx		25%

fgt: large boulders predominate

Arg boulders - 5-10 cm common

C-2 Boulders 25-45 cm common

470

475

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56 A | CLAIM: Jason 55 | PROPERTY: Jason | PAGE No 33 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		

Ditto (B-6-Eb)

477.9

C-2-L (boulder)
Mtx SS-1-C.
Fgt: cht 65 Arg 5-7+ (1~2 cm ϕ common <2.5 cm ϕ)

479.45

480

Interpretation: many of the smaller cobbles and larger boulders of C-2 are compositionally similar to Unit 2 in DDH 80-54, however in this hole, large slabs of Unit 2 are found in debri flow environment, thus being transported

483.80

B-6-EB (as above)
no C-2 boulders or smaller fgt's found in this section.
Large boulders consist of SS-1. This interval appears to correlate with the massive sandstone facies in DDH 54 at interval

485

490

490.60

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No 80-56A CLAIM: Jason-55 PROPERTY: Jason PAGE No. 34 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
							B-5-Ec mtx - 70% fgt - 30%								
							mtx - B-2 - Chert .5-1 cm 60% Arg. 2-3 cm 30% 3-5 cm 10%								
		32°					494.11 fgt - Arg. cobbles 5-8 cm common largest cobble 15 cm								
495	G5 ~ G7 mixed						B-5-Eb								
							A-1-b contorted • Mtx: Arg. (rare <5mm ϕ cherty fgt) → (B-2 s ?)								
	"						• Fgt: Arg95 (A-1-b, A-2-C, A-3 etc. 5~20cm ϕ common, one 4.12m across boulder)								
							498.23								
	"						• mostly B-1-Eb like, but the correlation with DDH 80-56B shows this unit is B-5-Eb-like								
500															
	"														
	"														
	"														
505	G4	30°?					504.83 A-3 ~A-2-C								
	"						• biscuite-shaped SS (0.5cm ~ 2cm common, 5~20 vol% varied; upper 6m more SS bands)								
							• few siliceous G3~4 Arg intercalated (< 1.8cm thick)								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason-55 PROPERTY: Jason PAGE No 35 of 44

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
	G6	45°					Ditto (A-3 ~ A-2-c.)								
	G7														
	G8~9						very fine Po dissem. silic. beds few (< 2cm thickness)								
510	"														
	G6														
	G5														
	"						513.02m								
		0°1					B-1-Eb								
	"						Fgt: Arg 95%+ (A-1-b mainly local A-2-c like fgt. 20cm+ ~ 50cm+ φ common one 3.03m across boulder.)								
515		15-30°													
	"														
	G5 6						• lower part cht. fgt (< 2mm φ) rare								
							519.07								
520	"	0-5°					A-3 slab (A-1 type rock ss band 5 vol%)								
	"	0-5°													

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56 A CLAIM: Jason-55 PROPERTY: Jason PAGE No. 36 of 44

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
	G5 ~ G6						522.10 Ditto (B-1-Eb)								
	"		Qvpt												
							524.51 A-3 with 15cm SS-5-M								
525	"														
							525.93								
	"	46°					526.66 B-6-Eb Mtx: B-2-L (Cht10 Arg50, <1cm φ Common, 2~4cm Arg some) Fgt: Arg65+ (2~5cm φ common, max 1.46m) Cht<1 (<1.2cm φ), Others (C-2-L, 50cm φ and few SS-5-L, <3cm φ)								
		44°					529.16								
530		40°					A-2-C (~A-1-b like) B-5-Eb Mtx: B-2-L (rare cht fgt <1.0cm; Arg40 <4cm φ) Fgt: Arg75 (5~25cm common. one 1.26m and one 1.62m across A-2 boulder.								
							530.42 1cm Mtx. A-2-C. 532.04.								
		42°					534.53 B-5-Eb Mtx: B-2-L (Arg20, Ch5±. <0.5cm φ, sandy size fgt scattered.), fairly carbonaceous. Fgt: Arg50+ (5~7cm φ common, 43cm across max.; Fair amount of Carb. Sh. fgt — ±20vol%)								
535															

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56 A CLAIM: Jason #5 PROPERTY: Jason PAGE No. 37 of 44

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

- Characteristics of this unit are carb. sh fgt. abundant and matrix also high carboniaceous content. [*** This unit correlates to 539.75m ~ 545.57m in DDH 80-56B]

538.78 — — — — — — — — — — — — — — — — — —

B-4-Eb (- graded at top

Mtx: Pebbly mudstone (Arg 15~20 Cht 3~5 <5mm ϕ sandy size cht fgt scattered.)

Fgt: Arg 60± (5~10cm ϕ common, max. 42cm)

Cht 1± (<1.5cm)

Brec. 1± (B-4-M, SS-5-S etc; <6cm ϕ)

- Similar to overlain rock, but lesser Carb sh. fgt. Top part graded

549.05m massive sulf. Py ≥ Gn > Sp. some bands, silic. fgt.

massive ~ semi-massive Pb-Zn sulfides mineralization

550.08 — — — — — — — — — — — — — — — — — —

str. sideritized silic. rock (Arg?) upper part Gn dissem, decreasing Gn downward.

550.82 massive sulf. Py ≥ Gn > Sp. (middle part sp-py thin bands)

550.89 — — — — — — — — — — — — — — — — — —

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag	% Cu	% Fe	oz/T Au
	548.0							
100	PH8383 (1.5m)	0.85	0.28	0.98	0.40	0.01	5.54	0.002
	549.05m							
100	PH8384 (0.95m)	24.16	5.80	0.33	10.37	0.08	16.33	0.002
	550.0m							
100	PH8385 (1.0m)	13.00	2.15	0.09	5.75	0.06	29.66	<0.002
	551.0							
100	PH8386 1.0m	23.96	4.95	0.33	9.31	0.03	22.58	<0.002
	552.0							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason #5 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

552.0m

Str. sideritized siliceous rock locally Py (or Po) and/or Gn dissem., Po(Py)/Sp/Gn/Qz veined irregularly lower part coarser siderite

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag	% Cu	% Fe	oz/T Au
100	PH 8387 (1.0m) 553.0m	6.00	0.37	0.03	2.46	0.04	31.75	<0.002
99.12	PH 8388 (1.0m) 554.0m	5.95	0.10	0.03	2.74	0.03	30.87	<0.002
98.89	PH 8389 (1.0m) 555.0m	24.84	1.07	0.31	9.05	0.03	18.09	0.004
98.89	PH 8390 (1.0m) 556.0m	12.00	0.70	0.03	4.57	0.03	22.58	<0.002
99.71	PH 8391 (1.0m) 557.0m	18.39	0.61	0.22	6.15	0.02	16.31	<0.002
100	PH 8392 (1.0m) 558.0m	24.45	0.05	0.02	7.60	0.03	14.01	<0.002
100	PH 8393 (1.1m) 559.10	33.89	0.81	0.14	6.93	0.02	22.02	<0.002
98.18	PH 8394 (1.0m) 560.10m	0.40	<0.01	0.84	0.03	<0.01	3.73	<0.002

555 — 554.0 upper 20cm Arg fgts mostly Gn and siderite mixed irreg. some py dissem.

554.95 mainly siderite some Qz vein

555.50 Py+Gn+Sp dissem. & as stringer.

Sideritic rock
Gn · Py/Po, Sp as dissem (irreg.) or as bands, or as veins.
one siltston fgt (80% sideritized) 5cm ϕ.

558.3 — Massive ~ Semi massive Pb-Zn sulfides mineralization
mainly banded m pyrite

559.10

560 — B - A - Eb

Mtx : Pebbly mudstone — s. (Arg 15- Cht 5-. <0.5 cm ϕ common, few 0.8 cm ϕ. Arg. fgt generally larger than cht. fgt. Some cht sandy size fgt sprinkled.

Fgt : Arg 60± (5~20 cm ϕ common, one 1.85m across boulder).

Cht 1± (<2 cm ϕ)

ss 1± (fine ~ medium grained. <6 cm ϕ) (one ss-5-s. 6cm ϕ.)

565 — 560.7 A-2-c ~A-3 boulder

• many silt~ss beds in Arg. are pyritized (partly ~ wholly).

566.55 Arg. ss bedding ~10° to thick) graddedation with silt.

From 549.05m to 559.10m (10.05m interval)

[18.78% Pb ; 0.15% Ba
1.63% Zn ; 0.03% Cu
6.48 oz/T Ag ; 22.45% Fe
Specific Gravity (composite) = 3.8
Core Recovery = 99.75%]

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A. CLAIM: Jason 55 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Ditto (B-4-Eb)

Qv

570

571.0m

B-4-Eb.

Mtx: Pebbly mudstone-s (Arg15+ Cht5-10, <8mm in general)

Fgt: Arg35-40 (t~10cm ϕ common, few >30cm ϕ one 42cm across)

Cht1+ (<3.5cm ϕ, mostly <1cm ϕ)

Breccia3± (B-4-L, 10m15cm three boulders at lower part)

some very coarse ss fgt. (<6cm ϕ)

575

Qv sd.

Sp Gn

577.34m Sp with some Gn. lens 6mm x 3cm.

Gn Vlt

Gn Vlt

578.25m Gn Vlt.

Gn Vlt

580

Po blebs & patches scattered (1~3%+)

few Gn-qtz sd

- matrix in part similar to overlain unit, but more irregular composition (locally fgt. as much as 30%+ — B-2-S.) and more cht. fgt.
- Sp. Gn lenses or vlt. and Po blebs or patches scattered.
- massy. Pyritized (partly~wholly) s:lt~ss. beds in Arg.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason. #5 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

Ditto (B-4-E_b),

*** from 571.0m to 583.36m correlated to DDH 80-56B 586.37m to 593.90m

583.36 transition

Py(Po) laminated or altn. with siliceous Argillite,

*** from 583.36m ~587.16m correlated to DDH 80-56B 583.36 ~587.16m

- Py(Po) as layers or beds thickness ranging from 1mm up to 12cm; some as patches and VIT. adding to Py(Po) bed forming up to 25cm thick band. (Py-Po about 30-35 vol% over all this (unit)
- Gn Sp disseminated in some Py(Po) bands
- Siderite assoc. with Py Po more or less (5-20 vol%+)

↓ gradational

587.16

B-1-E_b

Fgt: Arg 90+ (max. 92cm across)

- Fgts are: a) brecciated and pyritized Arg. b) A-1-a, c) Py(Po) lam. or altn. silic. Arg. d) silic. A-2-c. ...etc. mixed.
- Fairly contorted

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
		% Pb	% Zn	% Ba	oz/ton Ag	% Cu	% Fe	oz/T Au
	583.70							
97.5	PH 8610 (1.30m)	2.60	0.05	0.10	1.70	0.03	19.15	<0.002
	585.0							
95.4	PH 8611 (1.0m)	0.16	0.02	0.27	0.34	0.11	17.55	0.002
	586.0							
95.4	PH 8612 (1.0m)	0.12	0.08	0.11	1.47	0.07	22.50	0.002
	587.0							
95.8	PH 8613 (1.0m)	0.04	0.02	0.22	0.27	0.06	10.00	0.002
	588.0							
97.7	PH 8614 (1.0m)	0.04	<0.01	0.31	0.22	0.03	6.70	0.002
	589.0							
97.7	PH 8615 (0.86m)	0.02	<0.01	0.26	0.29	0.07	7.50	0.002
	589.86	PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM Mn
98.9	GB 9242	137	18	6390	3.4	82	3.00	270
	592.0							
100.0	GB 9243	184	15	5370	4.4	183	3.80	460
	594.0							
100.0	GB 9244	170	8	6310	5.4	95	3.50	450
	596.0							
100.0	GB 9245	132	10	7080	2.5	78	4.60	485

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 41 of 44

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM Mn
							Ditto (B-1-Eb)		598.0							
								100	GB 9246	210	15	4200	1.8	100	4.00	850
600							600.00		600.0	%	%	%	oz/TON	%	%	Au oz/T
		32°					Siderite - Py(Po) lam. or altn. siliceous Arg locally brecciated and replaced or filled by siderite (some Py.).	96.9	PH 8535 (1.0m) 601.0	0.12	0.04	0.16	0.24	0.04	16.65	<0.002
							some SpGn	96.9	PH 8536 (1.0m) 602.0	0.18	0.02	0.04	0.22	0.07	25.70	<0.002
								96.9	PH 8537 (1.0m) 603.0	0.55	0.04	0.07	0.21	0.05	23.70	<0.002
							• Siderite - Py(Po): as layer laminated; or as bed (up to 12cm thick) alternated; or as vlt or patches replacing Arg. lower part as matrix fill in brecciated Arg.	95.9	PH 8538 (1.0m) 604.0	1.10	0.02	0.06	0.39	0.05	26.40	<0.002
								95.6	PH 8539 (1.0m) 605.0	0.36	0.07	0.06	0.16	0.08	28.65	<0.002
605							brecciated	95.6	PH 8540 (1.0m) 606.0	0.36	0.05	0.20	0.06	0.05	17.30	<0.002
		63°					local high sid Py Po & Gn	96.0	PH 8541 (1.0m) 607.0	0.48	0.11	0.14	0.19	0.02	20.90	<0.002
								96.3	PH 8542 (1.0m) 608.0	2.22	0.03	0.17	0.65	0.03	25.25	<0.002
							brecciated	96.3	PH 8543 (1.0m) 609.0	0.67	0.06	0.09	0.14	0.05	34.78	<0.002
							• Gn Sp dissem in some sid-Py(Po) beds higher content in upper part (1~3%) and middle part	97.4	PH 8544 (1.0m) 610.0	0.42	0.02	0.12	0.14	0.03	20.20	<0.002
610								99.0	PH 8545 (1.0m) 611.0	0.27	0.05	0.13	0.04	0.01	18.50	<0.002
								99.0	PH 8546 (1.0m) 612.0	0.05	<0.01	0.15	0.02	0.02	8.00	<0.002

★★★ from 600.00m to 612.08m correlated to DDH 80-56B 643.08m to 654.64m

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 42 of 44

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

612.08

B-1-Eb.

Fgt: Arg 95± (up to 1.8m across)

614.59 Qz vein

615.59

- Fgts are: A-1-b and A-2-C. sand bands 3cm± common.
- slaty cleavage well developed
- rare matrix.

621.24 30cm siderite vlt

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
		% Pb	% Zn	% Ba	oz/ton Ag	% Cu	% Fe	oz/t Au
99.0	612.0 PH8547 612.65	0.02	<0.01	0.34	0.02	0.01	6.95	<0.002
		PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM Mn
95.7	GB9247	131	18	3930	1.6	43	5.70	840
	616.59							
95.7								
	615.59							
97.8	GB9248	124	22	3970	2.6	88	6.00	730
	617.0							
98.0	GB9249	400	89	3490	2.8	172	3.95	750
	619.0							
98.0	GB9250	94	10	3560	1.7	78	3.70	720
	621.0							
98.2	GB9251	177	21	2930	3.3	195	6.50	1900
	623.0							
97.8	GB9252	100	10	3890	1.9	75	3.10	525
	625.0							
91.4	GB9253	102	11	3940	2.2	62	3.55	690
	627.0							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56 A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 43 of 44

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM Mn
	G5 6						Ditto (B-1-E6)		629.0							
								95.7	GB9254	143	14	4040	2.8	68	3.70	470
									629.0							
630								99.0	GB9255	124	7	4450	2.1	70	2.70	275
		56°					630.97 B-4-E6		630.97							
							C-2-M, S & B-4-L fgt. mainly Mtx: Pebbly mudstone (rare chert fgt. <2mm Arg 5~10) Fgt: Breccia 60 etc. (C-2-L, C-2-M, B-4-L etc. 92 cm across max)	99.7	GB9256	78	14	2160	2.2	320	8.80	2100
							634.5 Arg 25: (A-2-C, thick SS bands mainly) Py nodule fgt. some		634.50							
635								95.8	GB9257	36	13	4890	0.4	78	3.75	950
							636.73m highly brecciated & broken. very carbonaceous									
							637.60 A-2-C altered (bleached) highly contorted. slickenside well developed. qz vlt extensive but low quantity (5~7 vol%) (Thermal effect by Dyke ??)	87.4	637.60 GB9258	68	240	3940	1.6	265	3.70	125
	G3 15 G4	63°		Qv4			638.80m Felsite dyke altered.		638.80							
640	light green						- auto metamorphosed?									

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56 A CLAIM: Jason 55 PROPERTY: Jason PAGE No. 44 of 44

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM Mn
	light green G3 G4	64°		Qvlt			Ditto (Felsite dyke)									
							642.48 A-2-c altered (bleached) highly contorted slickensides well developed 87 vlt some. (thermal effect by dyke)	86.9	642.48 GBQ339	77	22	4170	0.8	107	3.90	350
	G5	50°	Sid Py Sid Qz				643.59 Py band & nodule common A-2		643.59							
645	"	41°					• upper part very fine py bands (<3mm thick) and nodule (<3mm ϕ) common (15~20%)	93.7	GBQ260	56	82	1980	0.4	105	2.50	865
	"	44° 25°					slightly contorted	86.9	645.50 GBQ261	50	22	2010	0.2	36	2.30	1000
							647.40m HOLE END.		647.40							

Assay results:

1. From 549.05m to 559.10m (10.05m interval)
   18.78% Pb ; 6.48 oz/Ag ; 0.03% Cu
   1.63% Zn ; 0.15 % Ba ; 22.45% Fe
   Core Recovery = 99.75%
   Specific Gravity (composite) = 3.8

2. From 583.70m to 587.0m (3.3m interval)

3. From 600.0m to 612.65m (12.6m interval)

090712

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B | CLAIM Jason #5 | PROPERTY Jason | PAGE No. 1 of 20

CORE SIZE NQ | AZIMUTH 387.10m — 209° / 679.70m — 198° | ELEV. COLLAR 893.13m | LOGGED BY K. J. Lu

ANGLE of HOLE 387.10m — 54° / 679.70m — 45° | TOTAL DEPTH 679.70m (292.60m drilled) | NORTHING 7002,321.98 | DATE BEGUN July 19, 1980 FINISHED Aug. 5, 1980

SECTION | % RECOVERY 80.50 | EASTING 436,653.47 | CORE STORED AT Jason Property

SCALE: 1 : 100

COMMENTS: This hole is wedged from DDH 80-56A, The UTM coordinate and elevation are measured at wedge position — 387.10m depth.

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS (% Pb, % Zn, % Ba, oz/ton Ag)

387.10m

110 core

Refer to DDH 80-56A

390

391.61

B-6-Eb

Mtx : B-2-L (* Cht 20+ Arg 20-, < 2 cm ϕ, some sandy matrix)

Fgt : Arg 85-90 (A-1-a, b mainly, max. 4.67m)

Breccia 5-7 (B-4-L, B-4-S etc. max 48 cm)

394.66 boulder of A-1-b (local A-2-c)

Cht < 1 (* few 3~5 cm ϕ)

SS < 1 (* < 3~5 cm ϕ)

395

50°

Office of the Supervising Mining Recorder
DEC 9 1980
WHITEHORSE
Yukon Territory

Sperry Sun Test

Depth (m)	Inclination	Azimuth	
387.10m	54°	209°	
411.48	54°	205°	
443.48	53°	196°	
472.44	53°	193°	
504.44	51°	198°	-- Projected
533.40	50°	194°	
563.88	50°	202°	?
571.50	50°	202°	?
601.98	49°	187°	
632.46	45°	—	-- Projected
640.08	46.5°	188°	
679.70	45°	198°	-- Projected

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason 55 PROPERTY: Jason PAGE No. 2 of 20

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
	G6-7						(Cont'd) A-1-b local A-2-c								
							399.33 --- B-4-L boulders								
400	SRP						400.73 --- A-1-a boulder								
	G5 ~ 6 mainly						401.18 ---								
							401.73 --- A-1-a (boulder								
	"						403.25								
	"	32°													
405							405.0								
	G5 ~ 7 mainly														
	"														
	"						2~8 cm ss-1-c beds intercalated A-1-b.								
410	"		Sid Q VIF												

Ditto (B-6-E_b)

- *** 394.66m ~ 399.33m Arg. (boulder) Correlated to 394.12m ~ 398.18m Arg. (boulder) in DDH 80-56A)

*** correlated to DDH 80-56A 403.25m

B-1-E_b

(or highly folded and contorted A-2-C ~ A-3 (partly A-1-b) rock showing brecciated texture ?)

Fgt: Arg 98±, (A-2-C ~ A-C Some A-1-b.; mostly 60cm ~ 1m boulder, max. 2.24m across)

- rare matrix. (<3%)
- *** from 405.0m to 424.59m correlated to 403.25m ~ 414.2m in DDH 80-56A

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason ff PROPERTY: Jason PAGE No. 3 of 20

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Ditto (B-1-Eb) (or highly folded and contorted Arg. ?)

- partly fairly broken; blue clay mineral filmed on broken surface

413.61

415

416.05

418.27
20cm ± SS-1-c bed.

420

422.83
A-2-c

*** This unit (405.0m ~ 424.59m) [correlated to 403.25m ~ 422.20m in DDH 80-56A.

424.59m

B-1-Eb
Fgt: Arg 90% (A-2-a ~ c, A-1-a; 10 ~ 20cm or smaller common, max. 60cm ± across)

425

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80 - 56B CLAIM: Jason 55 PROPERTY: Jason PAGE No. 4 of 20

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
	G5												
	G7 mainly						427.63		427.63				
							428.55	29.4	428.55				
								46.6	428.85				
								55.7					
430									430.07				
								28.4					
					88		431.90 gauge 10 cm		431.90				
							433.45 10 cm B-2-L like (<4mm cherty fgt. few)						
435													
440							Gauge 10 cm 440.74						

Ditto (B-1-Eb)

- compare with overlain unit, this unit fgts are much smaller & less ss lam., and matrix is commonly seen.
- at 433.45m, 10cm B-2-L like.

★★★ [This unit (424.59m ~ 440.74m) correlated to 422.20m ~ 432.80m in DDH 80-56A.]

B-4-Eb.

Mtx: Pebbly mudstone (few sand size cht. fgt).

Fgt: Arg35 (max 52cm ϕ) Breccia35+ (B-4-S, M, L etc.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason ff PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

Cont'd from P.5 DESCRIPTIVE GEOLOGY

max. 62cm) Cht<1 (<4cm ϕ) SS<1 (<6cm ϕ)

443.63

Conglomerates
(C-2~3-L or M, several units)

Mtx: ss-1-c, varied composition
Fgt: Cht 60~70, Arg 5~15 (<1cm ϕ common
3~4cm ϕ in some unit one 6cm ϕ)

- several units, units boundaries crude
- one unit shows grading top to uphole.
- highly silicified.

449.78

B-4-E b

Mtx: Pebbly mudstone (some <2mm ϕ cherty frt scattered, Arg 10+ <1cm ϕ)

Fgt: Arg 60- (some 30~40cm ϕ and one 52cm ϕ)
Breccia (B-4-L, B-4-M etc. max 60cm ϕ)

- fairly broken, mostly poor core recovery)

455.83 gauge fault (8)
456.05 B-4-L like (might be gauge)
soft pebbly mudstone matrix with various frts (Brec. 15+ Arg 5+; <2mm ϕ common, one 5.1cm ϕ)

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER
49.2	449.88 – 450.49
50.3	
	452.02
36.1	
	453.24
35.2	
	454.46
37.5	
	455.98
66.7	

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80 - 56 B CLAIM: Jason 55 PROPERTY: Jason PAGE No. 6 of 20

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

457.10

B-4-Eb

Mtx: Pebbly mudstone ~ M (fgt: cht 3~7, <2mm ϕ mainly, some <6mm ϕ, rare 1cm ϕ ±; Arg 5~10 <6mm common, few 1.5cm ϕ)

Fgt: Arg 35+ (<10cm ϕ common, max. 26cm)
Breccia 15+ (B-4-M, L etc., 5~10cm some, 20~24cm few)
cht 1± (<4cm ϕ)

461.47 Very poor recov.

462.99 soft matrix fault gauge? (very poor recov.)

464.82

- Most of B-4-M fragments are same composition
- One Arg. fgt (26cm) is pyrite veined (<4cm width 1~3 vol%) and Qz veined
- fairly broken and blue clay min. coated on broken face.

466.20

466.65 Very poor recovery

471.64

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER
	457.66
34.4	
	458.85
39.3	
	460.10
62.8	
	461.47
22.4	
	462.99
15.3	
	464.82
57.1	
	465.73
34.8	
	466.65
13.1	
	468.17
34.8	
	469.19
40.2	
	470.31
32.0	
	471.53

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56 B CLAIM: Jason PROPERTY: Jason PAGE No. 7 of 20

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
		30/10	Qz				SS-2-m~c. <1cm lamination, Qz veined (10 vol %+)						
							472.60	61.5					
							B-5-Eb (or B-2-Eb)		473.35				
							Mtx: B-2-L (cht40 Arg10~15, SS-5-S10 fgt. some pyritic fgt, <5cm φ)	32.8					
							Carb sh.		474.57				
475							Fgt: Arg40+ (one A-1 carb sh. fgt 70cm)	72.8					
									475.49				
							[Could be B-2-Eb ? as Fgt: Arg50±, cht25-, SS-5-S5~6%]	30.5					
									476.70				
			Qz					30.4					
									477.62				
								69.6					
									478.54				
							479.26						
480							B-6-Eb						
							480.42						
							Mtx: Pebbly mudstone-M (cht5~7 Arg10, mostly 0.5~1cm φ common <1.5cm φ)						
							A-1-a boulder						
							481.95						
							Fgt: Breccia 50+ (mostly B-4-L as described in 485.22m~488.10m rock. Two big boulder.)						
							Arg 25~30 (5~10cm common, one 1.5m across.						
							483.75						
							Same as 485.22m~488.1m boulder (B-4-L						
							cht. few (<3cm)						
							486.5						
485							• no Qz veinning						
							485.22						
							B-4-L (or SS-5-L) [Matrix: SS-1-C Fgt: cht15~20 Arg5, few sidevitized Arg. <3cm φ)]						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason PROPERTY: Jason PAGE No. 8 of 20

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		



Ditto (B-6-Eb)

488.10

B-6-Eb {cont'd from overlain unit? due to similar matrix}

490

491.19 A-2-C

Matrix: Pebbly mudstone — M (cht 5~10% Arg 10%+ <1cm, 1~2mm φ cht few)

492.12

Fgt: Arg 40+ (4~20cm varied, one 93cm, one 2m across plate.)

cht 1+ (<3cm)

Breccia (B-2-S, B-4-L, etc.

- matrix similar to overlain unit except <2mm φ cht fgt sprinkled more than that of overlain unit

495

W. • Po finely dissem (invisible by naked eye) silic. rock as fgt, or bed in Arg fgt. found some in this unit

497.5

Gs Gs altr

A-2-C

Arg plate (boulder)

3 Po-bearing beds (3~5cm thick) occurred.

SS-1-m A-3.

499.50

499.80

500

B-4-L — gradded(?) (B-2-L at lower part)

matrix: pebbly mudstone — S at upper

Fgt: Arg 30 at lower, 60 at upper, cht 30 at lower <5 at upper

500.84

B-4-L

B-4-M

B-4-M, L — gradded.

Mtx: SS-1-C

Fgt: cht 40+ Arg 40- (more cht fgt in lower unit)

501.70

4? 34° φ gradded φ gradded

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56 B CLAIM: Jason PROPERTY: Jason PAGE No. 9 of 20

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
		gradded					B-6-Eb Mtx: B-4-S (ss. matrix with cht60 Arg20+ <8mm ϕ) Fgt: 1) from 501.7m to 505.60m Arg40 (<10cm mostly A-1 type finer upward cht 5~10 (<4cm. finer upward B-4-M1~3 (cht40 Arg15+ fgt <1.2cm in pyritic ss) ss few (<5cm) 2) from 501.7m to 524.17m Arg80+ (max. 4.1m, A-1~A-2 mixed) cht<1% (<4cm. mainly in upper part) Breccia<1% (B-4-M, B-4-S, etc.) ss rare (only in upper part							
505	G6	19°					505.60 — A-1-a local A-1-b Mostly Arg fgt.								
510							509.73 – 509.89 – A-1-b B-5-Eb like 512.25 – A-2-b 514.20 — A-2-c ~A-3 514.81 — ss-1-c~f gradded in A-3 (A-2 type rock) 516.08 – ss-1-c-f gradded A-3.								
515		fgt fgt													

- large boulders, mainly Arg., occur in lower part (from 505.6m to 524.17m) about 90~95 vol%. (could be B-5-Eb?)
- upper part shows crude grading.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason PROPERTY: Jason PAGE No. 10 of 20

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag
							COMMENTS:						
							B-4-S Ditto (B-6-Eb)						
							518.18						
							A-2-C highly contorted						
520													
							521.84						
							A-1~A-2 fgt. mixed						
		6°					524.17						
525							C-3-L-gradded - Arg fgt. >20 vol% strongly silicified; pyrite dissem 1~3 Vol%. Siderite filled in interstices of fgt & as vlt. 10~15% • crude grading. Top 10 cm shows good grading.						
							526.78						
							B-4-Ec matrix: Pebbly mudstone-M (Clt 5~20 varied Arg 5~15%, locally B-2-M like. <1 cm ϕ) Fgt: Arg 60+ (3~12 cm ϕ common) Breccia 3+ (B-4-L~M.)						
530		27°					529.92						
							B-1-Eb Fgt: Arg 90+ (rare cherty fgt. <2 mm) mostly large boulders filled by B-1-M like (possible B-5-Eb?)						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason PROPERTY: Jason PAGE No. 11 of 20

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
			Py				3 brecciated Ditto (B-1-Eb) (or B-5-Eb?) • Arg fgts varied from A-1~A-2 rocks, but no G9~10 Carb sh. fgt. as found in underlain bed.								
535															
540		22°					539.75 — B-5-Eb. Mtx: B-2-L (Arg 15~40 + Cht 5+ < 5cm ϕ) fairly carbonaceous mtx. Fgt: Arg 60~65 (mostly Carbonaceous sh. 70 vol%+) • Carb. sh. fgt mainly; some Siderite (with some Py) veins (<1%) *** This unit correlated to 534.44m [~538.75m in DDH 80-56A]								
							541.2 Slightly disturbed Carb sh.								
			sid Py				few sid (Qz Py) vein scattered.								
				sid 8/01 Qz Vit											
545							545.57 — B-6-Eb Pebbly mudstone ~B-2-L.								
		46°													

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56 B CLAIM: Jason PROPERTY: Jason PAGE No. 12 of

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		% Fe	oz/ton Au
550							B-6-Eb Mtx: Pebbly mudstone ~ B-2-L { Mtx: carb. mudstone ~ Sandy mudstone { Fgt: Arg 20~30 Cht 1±									
							549.02 A-2-c contorted									
							550.03 ½-bar?-ser. thin banded.									
							Fgt: Arg 40± (5~20 cm common, 92 cm max.) Breccia 15 (B-5-Eb one 1.8 m across few <1 cm φ similar composition) few ss									
							551.27 B-5-Eb (mtx B-4-L fgt Arg 10+)									
							553.07									
555							• upper part pebbly mudstone (locally <5 vol % fgt), but mostly B-2-L like, shows crue grading and containing larger fgt to 549 m±									
							556.29 A-1-a									
							• small B-4-L fgt (similar composition of matrix of B-5-Eb in 551.27 m ~553.07 m. found throughout in this unit.									
							558.09									
560			Qz				B-6-Eb Mtx: B-1-L (Arg 40+ <2 cm φ Pyrite 5+ patches. blebs <3 mm φ)									
							Fgt: Arg 60+ (max 34 cm 3~5 cm common) Brec. 5 (one 32 cm B-4-Ec.) Py-Sid-Qz fgt 8 cm φ. Sp-(on 2~4 cm) some	77.9	560.47 PH 8483 1.58 m	0.27	0.20	0.83	0.12	0.01	8.35	<0.002

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason PROPERTY: Jason PAGE No. 13 of 20

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

Ditto (B-6-E6)

- lower part 2m section B-1-S with ore fgt.

562.97 (South ore zone)

massive ~ semi massive Pb-Zn sulfides zone

↑Sp increase --- locally siderite and/or Qz-sericitic rock

Py (80%+) band. Poor recovery

Siderite rock Py > Sp > Gn dissem. & vit.

566.25

Gn = Sp > Py (s.d.) mass & dence

Siderite rock

568.71

Very poor recovery (Sid. - Py - Gn sand & chips)

570.59

Sid. rock Some Py (Gn) bands, vlts

571.50

Sid. rock Gn > Py (Sp) dissem. or vlt

578.55

very poor recovery vuggy Gn >> Py (Sp), or Gn = Py, or Py >> Gn, fgts.

578.07

Siderite rock Gn dissem & VIT-like ↓ increase downward

576.62

- Generally, lack of bedding or lam. especially middle part - high siderite content part - showing boiling texture (irregular mixing)
- many poor recovery parts, some of the parts are only Gn, Py, Sp sands or chips left
- Roughly, upper half zone is high siderite content (Varied 30 vol% ~ 80 vol% +) and some Argillitic (mainly Qz-Ser.) part and lower half zone is high Gn - Py content (Varied 30 ~ 80 vol% Gn). Top 1m + high content of Sp. (about 10 vol%, increasing upward to 20 vol%)

high siderite content

high galena content

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag	% Cu	% Fe	oz/ton Au
	562.05							
67.4	PH 8484 (0.92m)	1.41	1.22	1.40	0.84	0.02	8.40	< 0.002
	562.97							
81.4	PH 8485 (1.18m)	24.99	11.15	0.14	10.65	0.06	7.60	< 0.002
	564.15							
81.4	PH 8486 (1.56m)	23.62	4.75	0.04	9.15	0.07	25.45	< 0.002
	565.71							
58.0	PH 8487 (0.54m)	6.00	0.81	<0.01	2.61	0.03	34.50	< 0.002
	566.25							
58.0	PH 8488 (2.51m)	21.17	6.80	0.04	8.94	0.03	24.80	< 0.002
	568.76							
2.1	PH 8489 (1.83m)	0.64	0.32	<0.01	0.62	0.01	39.55	< 0.002
	570.59							
96.7	PH 8490 (0.91m)	3.05	0.34	<0.01	1.82	<0.01	27.70	< 0.002
	571.50							
41.3	PH 8491 (3.05m)	17.60	7.70	<0.01	8.75	0.01	17.60	< 0.002
	574.55							
9.2	PH 8492 (1.52m)	26.22	4.75	0.02	11.63	0.02	27.30	0.002
	578.07							
83.6	PH 8493 (0.55m)	30.18	2.60	0.01	14.45	0.03	15.75	< 0.002
	576.62							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm or % Pb	ppm or % Zn	ppm or % Ba	ppm or oz/ton Ag			ppm Mn or oz/T Au
83.6	PH8494 (0.86m) 577.48	35.48%	0.24%	<0.01%				≤ 0.002
60.7	PH8495 (0.69m) 578.17	23.32	0.66	0.01				0.037
35.4	PH8496 (2.78m) 580.95	48.26	16.51	0.06				< 0.002
62.6	PH8497 (0.91m) 581.86	42.24	17.51	0.10	21		25	0.002
33.8	PH8498 (0.77m) 582.63	8.70	2.95	0.10	4		40	< 0.002
79.6	PH8499 (0.80m) 583.43	62.13	2.30	0.02	24.7		70	< 0.002
59.7	PH8500 (1.08m) 584.51	43.71	0.28	<0.01	16.59	0.04	45	< 0.002
60.1	PH8501 (1.86m) 586.37	23.62	0.81	0.03	9.20	0.11	1410	< 0.002
65.1	PH8502 (0.67m) 587.04	2.55	0.11	3.72	0.97	0.01	645	< 0.002
86.5	PH8503 (1.15m) 588.19	0.23	0.01	5.32	0.54	<0.01	2355	< 0.002
		ppm	ppm	ppm	ppm	ppm	%	ppm
77.6	GB9262	6800	335	20,000	16.	42	3.55	16.
	591.2							
94.0	PH8587 (1.12m)	0.88%	<0.01%	1.41%	0.37 oz/T	<0.01%	3.55%	< 0.002 oz/T

580

585

590

58° 57° 58° 60 49° 32° 51° 52°

{ higher siderite content.

578.17

fgts (up to 12cm length core) of Gn > Sp ≥ Py (in general)
some Gn sand % ± fgt.
few cores show lamination and banding ; fairly vuggy

580.95

Gn > Sp ≥ Py lamination few shaly material & lam. and <2mm arg. fgt. in few layers, bleached Arg. ? (consisting Qz-ser, & some cht), Gn-Sp vlt few.

581.86

582.63

Gn > Py ≥ Sp
upper part vuggy
lower part dense, massive

↓ grd. increase

584.51

Poor Recovery

585.52 Py ≥ Gn ≫ Sp.. upper part slightly vuggy

Massive ~ Semi-massive Pb-Zn -Sulfides Zone. (South ore zone)

586.37

B-4-Eb

Mtx: Pebbly mudstone (fairy sandy) — S (cht+Arg 3~10, <0.5cm ϕ)

Fgt: Arg 35~40 (5~10% common, max 5cm across)
Cht, (<1.5cm ϕ)
Breccia (B-4-M, 40cm across, one)
B-2-S, <5cm ϕ some
Po-Py-Sid-Gn-Sp mineralized Arg. boulder (1.2m across, one),

591.2

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason PROPERTY: Jason PAGE No. 15 of 20

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm or % Pb	ppm or % Zn	ppm or % Ba	ppm or oz/ton Ag	ppm or % Cu	% Fe	ppm Mn or oz/ton Au
	Yellow		Py 40%				592.42 Sideritic Arg. Str. Pyritized (Py 40%+) Gn Sp as vein & bands (15%+) } boulder [*** from 586.37m to 593.90m Correlated to DPH 80-56A 571.0m to 583.36m]	96.1	592.32 PH8588 (1.34m)	% 2.23	% 0.66	% 0.04	% 1.49	% 0.04	36.43	< oz/t 0.002
		20	Gn Sp Cp				593.66 593.90 GnSp(Cp) B-4-M & L (several units) Mtx: SS-1-C~m. Fgt: Cht 40~60, Arg 20~35 varied Size varied from 5cm ϕ to n mm.	95.5	593.66 PH8589 (1.14m)	0.51	0.03	0.38	0.18	<0.01	4.20	< 0.002
595							increase	94.9	594.80 PH8590 (0.99m)	2.89	<0.01	0.36	0.73	<0.01	2.50	< 0.002
			Gn 5-8%				595.79 Gn abundant • Several units, composition & size slightly different: Sp Cp and Gn increased downward.	95.7	595.79 PH8591 (1.06m)	9.02	<0.01	0.16	1.87	<0.01	2.70	< 0.002
							596.85 B-1-Eb (locally B-3-Eb like) Mtx: Arg. (602m ~ 604.9m few cherty fgts < 2mm ϕ mostly, several < 4mm ϕ) Fgt: Arg 55+ (10± cm ϕ common, one 1.06m across.	75.3	596.85 GB9263	ppm 365	ppm 15	ppm 14040	ppm 0.9	ppm 96	% 3.25	Mn ppm 1200
600							599.84 A-3 boulder Sideritized	90.3	599.84 GB9264	90	30	11370	0.2	64	5.55	2300
			Sid VIT				600.90 [bitumen spots]	94.4	600.90 GB9265	1500	19	12420	4.1	71	3.00	935
			PyCpGnSp				602.32 PyCpGnSp VIT 0.3cm	97.4	603.00 GB9266	138	20	12790	1.0	101	3.40	820
605			QSid VIT					91.6	605.50 GB9267	75	13	15060	0.8	56	2.85	865

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

Ditto (B-1-Eb)

607.88 — B-1-L
Qz veining remarkable 35%+
Fgt: Arg 70 (1~2cm x 6cm plates common)
• Str. Silic. & Qz vlt remarkable (>35%)
609.19

609.36 — Po(Py)-Gn.Sp(Cp) bands altn. with Siliceous (local sideritic) Arg.
Py Po & Gn (Sp)
610.55 — Silic. bed some Py etc
611.33 — Str. sideritized some Arg beds (<2cm)
612.43 — 10cm Gn (60%) band
Str. sideritized bed-lens altn with silic bed (1cm - 10cm)
sid. bed-lens (60%)
Silic. bed 25~30%
Gn-Sp as diss. or vlt.
615.94 — Siderite rock (sid 70~90 vol%) varied
• Gn-Sp as lens or patch scattered
Gn rich. part
• Py >> Po.
619.37 — Siderite rock as above but containing G3~4 silic Arg fgt. occassonaly (<5%, <8cm ϕ)

Po(Py)-Gn.Sp(Cp) bands:
• massive ~ semi massive, as bands bed-like, or patches; some Gn-Sp as vein or knots in bands or cut the beds
• bands or beds are irregular shapes mixed with siliceous ~ sideritic rocks showing contorted texture.
• bed-like part shows lam. texture parallel to siliceous Arg. lam.
• size of bands, beds patches varied n mm upto 15cm or more) and composition also varied.

Siliceous bleached Arg.
• G2~G3 colored A-1-a~b, local A-2-b ~A-2-c like.
• some beds partly ~ wholly replaced by siderite.
• Po/Py common in laminated silt ~ s.s.

Sections: 610, 615, 620

Color: G4 ; G6 ; G2 ; G3 altn yellow

Bedding: 44°

Mineral: Qz

Texture: Semi oregrade Sp Gn as lens patches vlt scattered

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ppm or % Pb	ppm or % Zn	ppm or % Ba	ppm or oz/ton Ag	ppm or % Cu	ppm or % Fe	ppm Mn or oz/t Au
	607.88	(ppm)	(ppm)	(ppm)	(ppm)	ppm	%	mn ppm
93.6	GB 9268	600	129	13870	2.3	147	4.70	530
	609.36							
98.7	KL 8504 (0.64m)	8.20%	0.03%	0.16%	2.04%	0.18%	31.95%	oz/t <0.002
	610.00							
98.7	KL 8505 (1.0m)	2.50	0.03	0.64	0.54	0.09	23.45	<0.002
	611.00							
98.7	KL 8506 (1.0m)	0.52	0.02	0.39	0.52	0.07	26.40	<0.002
	612.00							
98.7	KL 8507 (1.0m)	10.98	0.05	0.12	1.73	0.06	28.45	<0.002
	613.00							
98.7	KL 8508 (1.0m)	1.73	0.02	0.15	0.33	0.10	29.30	0.008
	614.00							
99.4	KL 8509 (1.0m)	6.23	0.04	0.05	1.16	0.08	29.35	0.002
	615.00							
100.0	KL 8510 (1.0m)	3.60	0.06	0.23	0.64	0.07	26.75	<0.002
	616.00							
100.0	KL 8511 (1.0m)	3.85	0.04	0.21	0.72	0.04	28.40	0.002
	617.00							
98.9	KL 8512 (1.0m)	5.33	0.01	0.07	1.00	0.09	34.65	<0.002
	618.00							
97.7	KL 8513 (1.0m)	3.65	0.02	0.02	0.77	0.18	33.65	<0.002
	619.00							
97.7	KL 8514 (1.0m)	0.14	0.01	0.17	0.24	0.14	27.14	<0.002
	620.00							
98.7	KL 8515 (1.0m)	8.61	0.06	0.08	1.61	0.06	34.15	<0.002
	621.00							
99.8	KL 8516 (1.0m)	1.21	0.02	0.08	0.22	0.07	33.05	<0.002
	622.00							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason PROPERTY: Jason PAGE No. 17 of 20

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

Cont. from 619.37

- Po > Py (15~25 vol% Varied)
- Gn vlt, patchy, dissem. net

Ditto (Po-Py-Gn Sp bands altn with Silic arg.)

Gn abundant

624.85

Siderite rock with some Silic. Arg beds (<6 cm, 20 vol%)

Gn abundant

- Po/Py (15~20%) Gn (10-15%)

627.07

Siderite rock

- less Py Gn than overlain unit.

*** from 609.36 m to 630.02 m
Correlated to
DDH 80-56A 589.36 m ~ 587.16 m
DDH 80-63 524.4 m ~ 528.3 m

brecciated Arg — High content of Po, Py and/or sid.

630.02

Siliceous Arg (A-1-a mainly) local A-1-b ~ A-2-a)

- Some sid + Py/Po dissem bed. or as thin layers in Arg
- few Py Po vlt.; • Gn Sp assoc. with Py/Po. in some.

632.36

Str. sideritized rocks.
- Arg origin? 80% + Siderite.
- Sp (Gn) vlt scattered, Po (Py) dissem.

633.69

brec. Silicified and Bleached A-1-b.

- Py/Po diss. or vlt (or as matrix in brecciated Arg at top), about 30 ~ 5 vol% at brec. part <5 vol% in lower part.

transition zone

636.73 to ↓Arg

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
		% Pb	% Zn	% Ba	oz/ton Ag	% Cu	% Fe	oz/T Au
	623.0							
99.7	KL8517 (1.0m)	5.32	0.02	0.04	0.92	0.06	34.10	<0.002
	624.0							
99.7	KL8518 (1.0m)	4.02	<0.02 ★	0.29	0.73	0.08	31.20	<0.002
	625.0							
99.3	KL8519 (1.0m)	5.15	0.22	0.16	0.84	0.05	28.65	<0.002
	626.0							
99.1	KL8520 (1.0m)	5.60	0.06	0.06	0.75	0.05	32.15	<0.002
	627.0							
99.1	KL8521 (1.0m)	6.75	0.02	0.04	0.95	0.03	31.65	<0.002
	628.0							
99.0	KL8522 (1.0m)	4.38	0.02	0.08	0.69	0.05	27.40	<0.002
	629.0							
99.0	KL8523 (1.0m)	0.96	0.25	0.02	0.27	0.07	36.90	<0.002
	630.0							
98.9	KL8524 (1.0m)	0.15	0.08	0.09	0.16	0.09	20.63	<0.002
	631.0							
98.7	KL8525	0.12	0.21	0.23	0.14	0.03	7.20	<0.002
	632.0							
98.7	KL8526	0.04	0.49	0.22	0.07	0.03	9.50	<0.002
	633.0							
99.0	KL8527	0.12	0.46	0.06	0.15	0.03	26.00	<0.002
	634.0							
99.0	KL8528	0.13	0.47	0.11	0.22	0.02	25.43	<0.002
	635.0							
97.0	KL8529	0.04	0.31	0.23	0.12	0.04	21.00	<0.002
	636.0							
97.0	KL8530	0.03	0.14	0.31	0.15	0.01	8.5	<0.002

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason PROPERTY: Jason PAGE No. 18 of 20

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

A-1-a ~ A-1-b (locally A-2-c like)

- Gan Gs colored, mod. ~ str. silic.
- Po > Py (<3%) dissemn. in lam. silt ~ s.s.
- some sideritization recognized in local
- Sp veins n mm and patch 2cm x 3cm+ at top of unit.

slaty cleavage commonly seen

641.95 bleached siliceous A-1-b
- Similar to 633.68m ~ 636.73m

643.00 Brecciated Po-Py-Sid (Gn Sp) mineralized A-1-b

mineralized A-1-b:
- many beds are partly ~ wholly replaced by siderite (mostly occurred in upper half of this unit; sid ≈ 30 vol% overall)
- Po > Py, dissem in lam silt ~ s.s. (5-7 vol% mainly in upper half of the unit,) or in sideritized part (10~15 vol%, upper half part) or as vein or matrix in Breccia (15%+)
- some Gn-Sp assoc. with Po Py.

fairly sideritized

647.70 Brecciated silicified A-1-a.
- A-1-a rock occasionally lam. and few Py dissem.
- Po/Py stockwork vlt. (Py ≥ Po 5%±)

650.09 Brecciated Po-Py mineralized A-1-b.
similar to 643.08m ~ 647.70m but non ~ slight sideritization, and much less Gn Sp.

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: ppm Er % Pb	ppm Er % Zn	ppm Er % Ba	ppm Er oz/ton Ag	ppm Er % Cu	ppm Er % Fe	ppm Mn or oz/t Au
		(ppm)	(ppm)	(ppm)	ppm	ppm	(%)	ppm Mn
91.4	GB9273	490	20,000	3150	5.5	190	6.50	1500
	638.70							
95.9	GB9274	260	240	2880	3.2	358	3.50	2800
	641.15							Au
99.0	PH8550 (0.8m)	0.01 %	<0.01 %	0.28 %	0.05 oz/t	0.01 %	9.10 %	<0.002 oz/t
	641.95							
99.0	PH8551 (1.05m)	0.02	<0.01	0.28	0.07	0.03	13.10	<0.002
	643.00							
99.0	PH8552 (1.04m)	0.04	<0.01	0.13	0.18	0.04	21.80	<0.002
	644.04							
96.6	PH8553 (0.92m)	0.01	0.01	0.13	0.08	0.08	27.03	<0.002
	644.96							
90.5	PH8554 (1.04m)	0.01	0.02	0.10	0.27	0.08	28.85	<0.002
	646.0							
90.5	PH8555 (1.0m)	0.02	<0.01	0.20	0.09	0.03	15.00	<0.002
	647.0							
93.0	PH8556 (1.0m)	<0.01	<0.01	0.19	0.04	0.01	11.90	<0.002
	648.0							
98.7	PH8557 (1.0m)	0.01	0.01	0.24	0.07	0.01	9.08	<0.002
	649.0							
98.7	PH8558 (1.0m)	<0.01	0.04	0.25	0.06	0.01	7.55	<0.002
	650.0							
99.0	PH8559 (1.0m)	0.02	0.02	0.08	0.17	0.06	>9.30	<0.002
	651.0							
99.7	PH8560 (1.0m)	0.02	0.01	0.10	0.15	0.05	25.90	<0.002
	652.0							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason PROPERTY: Jason PAGE No. 19 of 20

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm or % Pb	ppm or % Zn	ppm or % Ba	ppm or oz/ton Ag	ppm or % Cu	% Fe	ppm Mn or oz/T Au
	G1-3	50°	Py Po 40~45%				Ditto (brecciated Py min. A-1-b)	99.7	652.0 PH8561 (1.0m)	0.01 %	<0.01 %	0.12 %	0.13 %	0.02 %	17.80	<0.002 oz/T
		70°						99.3	653.0 PH8562 (1.0m)	0.01	<0.01	0.13	0.14	0.03	20.38	<0.002
	G3						less PyPo (≈20%) darker color (G3~4) — from 643.08m to 654.64m related to DDH 80-56A 00m ~612.08m	97.7	654.0 PH8563 (1.0m)	0.02	0.01	0.17	0.16	0.02	14.00	<0.002
655	G4						654.64 Silicified A-1-b.	97.7	655.0 PH8564 (1.0m)	0.02	0.08	0.19	0.21	0.06	7.40	<0.002
	G4	65°					• G4 col- silicification. • Silt~s ls (or lam) (5 vol%±) partly laced by pyrite	93.2	656.0 GB9275	ppm 140	ppm 50	ppm 2710	ppm 1.8	ppm 100	% 2.70	ppm Mn. 130
		70°						87.4	657.5 GB9276	194	35	3570	4.8	213	5.80	280
660	G5	58°	Py				659.47 A-1-a. • Silt~SS lam <1% • Py beds (1.5cm & ...) (<3m) and concretion knots (<... ...), total 5~7 vol%.	91.4	659.47 GB9277	130	16	3370	4.7	225	5.40	145
	G6	61°					660.91 B-1-Eb Fgt: Arg80+ (A-1~ 1-a common, one A-2-c, one A-1-a boulder containes Py concretion knots, two large boulders 51cm & 52cm, rest fgt <10cm±)	94.1	660.91 GB9278	118	18	3400	5.2	125	5.20	165
	G6							100.0	663.20 GB9279	81	10	4300	1.8	101	3.60	390
665	G7		GS				• few Py vlt (<3m width, 1~3 vol%) and sid vlt (<1...)									
			Sid				665.99	100.0	665.99 PH8616 667.0 (1.01m)	% 0.01	% <0.01	% 0.27	oz/T 0.10	% 0.05	% 15.30	oz/T Au <0.002

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason PROPERTY: Jason PAGE No. 20 of 20

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: ppm or % Pb	ppm or % Zn	ppm or % Ba	ppm or oz/ton Ag	ppm or % Cu	% Fe	ppm Mn or oz/T Au
							COMMENTS:									
							Breccia fgt. contained Pyritic rock		667.0							
							· Matrix: B-1-M like texture in some, but 60~95% replaced by py. (rarely + mudstone)	100.0	PH8617 (1.0m) 668.0	0.03%	<0.01%	0.13%	0.11%	0.06%	24.65%	<0.002
							Fgt: Breccia 5~7 (B-4-L&M; <35cm ϕ) Pebbly ss~mudstone, SS-2-C. Some brecciated silicified bleached Arg. (at upper part.)	100.0	PH8618 (1.0m) 669.0	0.03	0.01	0.14	0.23	0.07	27.60	<0.002
670								100.0	PH8619 (1.0m) 670.0	0.03	<0.01	0.20	0.18	0.04	25.20	0.002
							· Py as matrix-like (probably replaced original matrix. Total 60 vol%).	100.0	PH8620 (1.0m) 671.0	0.04	<0.01	0.10	0.12	0.04	29.20	<0.002
								100.0	PH8621 (1.08m) 672.08	0.02	<0.01	0.10	0.18	0.05	23.45	0.002
							672.08 — Pebbly mudstone — M Mtx: mudstone, but coarse s.s. size fgt ≒ 5 vol% Fgt: ekt 15~Arg's~(<1.5cm ϕ)	100.0	GB 9280 672.93	ppm 145	ppm 86	ppm	ppm 1.6	ppm 183	% 6.00	ppm Mn
							672.93 — SS-1-m~f (with few thin Arg intercalated) · fairly contorted	100.0	GB 9281 674.23	83	30		0.5	111	4.65	
							674.23 — A-2-a, (few local A-1-a) · fairly contorted · stockwork siderite (some Qz) vlt remarkable (20~25 vol%) · Py cube scattered in Arg & vlt.	100.0	GB 9282 676.0	42	62		0.2	176	2.40	
675								100.0	GB 9283 678.0	16	11		0.2	61	2.25	
								100.0	GB 9284 679.70	34	10		0.2	81	2.15	
680							679.70m — HOLE END.									

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-56B CLAIM: Jason 55 PROPERTY: Jason PAGE No. Extra

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: / DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Assay Results :

[1). From 562.97m to 586.57m (23.60m interval) ------- South ore zone
25.78% Pb ; 12.00 oz/t Ag ; < 0.03% Cu ;
5.98% Zn ; < 0.03% Ba ; 18.71% Fe ; Core Recovery = 91.15%
]------ Economical *

From 592.32m to 596.85m (4.53m interval)
3.53% Pb ; 1.083 oz/t Ag ; < 0.01% Cu ;
< 0.21% Zn ; 0.224% Ba ; 13.01% Fe ; Core Recovery = 97.23%
[from 594.80m to 596.85m (2.05m interval)
6.06% Pb ; < 0.001% Zn ; 1.319 oz/t Ag] ---------- Economical

2). From 609.36m to 630.00m (20.64m interval) ------- Pyrrhotite zone II
4.16% Pb ; 0.78 oz/t Ag ; 0.08% Cu ;
0.05% Zn ; 0.15 % Ba ; 29.93% Fe ; Core Recovery = 99.03%
[from 609.36m to 628.00m (18.64m interval)
4.55% Pb ; 0.04% Zn ; 0.84 oz/t Ag] ---------- Economical

Uneconomical

3) From 643.0m to 656.0m (13.0m interval) ------- Pyrrhotite zone I
< 0.016% Pb ; 0.136 oz/t Ag ; 0.04% Cu ;
< 0.02% Zn ; 0.16 % Ba ; 18.14% Fe ;

* Base upon the Wright Engineering's Report

090712

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-57A | CLAIM ACE 22 F | PROPERTY JASON | PAGE No. 1 of 12

CORE SIZE N.Q. | AZIMUTH Collar 60° 181.36m 63° | ELEV. COLLAR 1159.4m | LOGGED BY DR. K.I. LU & R. SIMPSON

ANGLE of HOLE Collar -50° 181.36m -45° | TOTAL DEPTH 182.27m. | NORTHING 7,001,814.60 | DATE BEGUN JULY 3/80 FINISHED July 10/80

SECTION | % RECOVERY 65.75 | EASTING 436,572.33 | CORE STORED AT JASON PROPERTY

COMMENTS: Tri-coned to 18.29m

SCALE: 1 : 100

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag

SPERRY SUN TESTS

DEPTH	INCLINATION	AZIMUTH
COLLAR	50°	60°
53.34 m	49	61°
90.83 m	49.5	63°
137.16 m	48°	62°
181.36 m	45°	63°

Office of the Supervising Mining Recorder
DEC 9 1980
WHITEHORSE
Yukon Territory

15

Overburden

18.29 — ? — ? — ? — (due to poor recovery (bedrock boundary uncertain.)

18.29

54.5%

19.51

23.0%

20.12

85.3%

20.73

30.3%

21.49

54.4%

21.95

20

G7

A-1a

- DARK GREY, FINE GRAINED, FINELY LAMINATED ARGILLITE

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-57a CLAIM: ACE 22 F PROPERTY: JASON PAGE No. 2 of 12

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

DITTO A-1a

30.0

HIGHLY CARBONACEOUS SILTSTONE

- POSSIBLY FOSSIL PRESENT - ELONGATE SHAPE
- GRADES INTO AN ARGILLITE.
- UPTO 10 % PY., LENCHED

GRAPHITE PRES. ALONG CLEAVAGE PLANES

31.8

A-1a CALCAREOUS,

34.3

A-1

- BLACK, FINE GRAINED, MASSIVE ARGILLITE

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER
91.2%	22.86
85.1%	23.93
52.8%	24.84
56.6%	25.60
50.8%	26.21
43.5%	27.13
91.1%	27.58
62.6%	28.65
67.2%	29.26
71.7%	30.18
74.7%	32.00
88.7%	34.75
75.5%	35.20
85.9%	36.12
81.3%	

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-57a CLAIM: ACE 22 F PROPERTY: JASON PAGE No. 3 of 12

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM Mn
							← [Specific Gravity 2.4] DITTO A-1	79.5%	37.19							
								94.7%	38.41							
								68.4%	39.17							
40								80.4% 40.39	39.93							
								86.8% 41.15								
								80.2% 42.06	42.00M							
							42.3	86.9% 42.67	RS-0031 1m 43.00M	40	1160	900	1.2	57	1.25	490
							A-2 mainly		RS-0032 1m 44.00M	20	390	490	0.6	62	1.00	485
	G-7						- SEVERAL UNITS OF LAMINATED~BANDED SILICEOUS BEDS AND FINELY PYRITIC LAMINATED ARGILLITE (A-2 ROCK)	34.8% 45.11	RS-0033 1m 45.00M	20	19	420	0.5	66	0.85	485
45			QTZ VT.				- STRONGLY SILICIFIED, QUARTZ VEINING REMARKABLE.	68.9% 45.72	RS-0034 1m 46.00M	23	27	660	0.7	63	1.05	610
							- BEDDING VARIES FROM 0° TO 70° ± AND IS HIGHLY CONTORTED	11.3% 48.46	RS-0035 2m 48.00M	43	34	630	1.1	36	1.35	730
							- FOLDING VARIES FROM GENTLE TO TIGHT	19.2% 50.75	RS-0036 2m 50.00M	87	32	760	2.3	54	2.35	1470
50							- SPHALERITE AND GALENA SPECS FOUND LOCALLY		RS-0037 1m 51.00M	102	15	720	2.6	55	3.8	430
								23.8% 51.97	RS-0038 2m 52.00M	100	6	720	2.3	51	3.00	52

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-57a CLAIM: ACE 22 F PROPERTY: JASON PAGE No. 4 of 12

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb (PPm)	Zn (PPm)	Ba (PPm)	Ag (PPm)	Cu (PPm)	Fe (%)	Mn (PPM)
							DITTO (A-2)	52.00								
							• SILICIFICATION BECOMING MORE PROMINENT FROM 53-61 m	16.8% 53.04	53.00M							
								11.0% 53.95	RS-0039 1m 54.00M	70	32	840	0.9	80	0.9	50
55	G-7							44.3% 54.56	RS-0040 1m 55.00M	52	10	790	0.8	39	0.8	71
								54.8% 54.87								
								45.0% 55.47	RS-0041 1.39 m	47	7	810	0.9	52	0.7	53
								56.5% 55.93								
	G-6	40°					56.55 } Py finely laminated ~ banded (Specific gravity = 3.25)	52.2% 56.39	56.39 RS-0042 (0.58m) 56.9	200	10	720	5.2	55	10	33
	G-3 G-4						56.97 } siliceous beds banded ~ lam. argillite	51.8%	RS-0043 (0.48m) 57.46	140	7	530	2.2	45	6.10	37
	G-7						57.46	57.76	RS-0044 (0.75m) 58.21	130	7	530	2.3	45	6.50	35
			QTZ VEIN				58.21 } Quartz Vein.	63.0% 86.9% 58.83								
								31.2% 59.44								
60	G-1							51.1% 60.81								
			Py (CP)				60.81 } Py (≑80 vol%) and Cp (1~2 vol%) filled as matrix in interstices of Arg. breccia (<1 cm φ) in 19 cm core		60.8 61.0 RS-0045 (0.2m)	167	165	690	12.0	7800	10.	129
	G-7		PY				Very Poor recovery	16.8% 62.48	RS-0046 2.7m	58	9	1050	1.0	119	1.15	25
								34.1% 63.39								
								41.9% 63.70	63.70							
							63.70 } siliceous beds banded ~ laminated argillite	70.5% 64.31	RS-0047 0.61m 64.31	165	26	740	2.5	52	9.0	158
65								75.4% 65.53	RS-0048	58	18	980	0.9	41	1.05	38
	G-7							23.4%	RS-0049	87	28	970	1.6	470	2.70	21

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-57a CLAIM: ACE 22 F PROPERTY: JASON PAGE No. 5 of 12

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

highly broken — DITTO (A-2)

67.97

fault zone?

NO CORE

70.10

highly broken

Very poor recovery

73.46

74.30

HIGHLY SILICEOUS BANDED ARGILLITE

- CONTORTED WITH A LARGE NUMBER OF FOLDS
- ALTERNATING SILICEOUS AND BLACK ARGILLITE BANDS
- 70% SILICEOUS ARGILLITE AND 30% BLACK ARGILLITE

79.40 — SOME A-2 ROCK (UP TO 50 cm THICK) INTERCALATED;

80.40 — A-2

80.90

81.80

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
		PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM Mn
23.4%	RS0049							
67.97								
0								
70.10	70.10							
20.3%	RS-0050							
71.63								
8.7%	4.20 m	134	102	840	4.3	1500	7.2	36
73.46								
47.5%								
74.07	74.30							
45.9%								
74.68								
38.5%	RS-0051	300	60	670	2.1	91	6.00	540
75.59	2 m 76.0							
68.9%								
76.2	RS-0052	113	10	660	2.2	47	5.8	192
74.8%	1 m 77.0							
77.27								
94.7%	RS-0053	220	121	700	2.4	176	5.80	30
78.03	1 m 78.0							
70.8%	RS-0054	270	127	780	2.8	157	10.00	720
79.4	1.4 m 79.4							
92.7%	RS-0055	95	18	700	2.3	37	6.4	735
80.77	1 m 80.4							
	RS-0056	68	62	950	1.5	32	2.15	62
89.5%	0.5 m 80.9							
	RS-0057	153	172	580	2.3	216	5.10	217
	0.9 m 81.8							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-57a CLAIM: ACE 22 F PROPERTY: JASON PAGE No. 6 of 12

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM Mn
	G-3 & G-4		QTZ I				A-Z 7.0 cm QTZ VNT WITH BROWN ALTERATION MINERAL EPIDOTE ?? BLACK, FINELY LAMINATED ARGILLITE	89.5% 83.82	RS-0058 2.4 m	123	115	1000	1.4	114	1.75	350
55			Py lam				84.20 } Siliceous beds ~ layers altn. (lam). 85.00	84.9% 85.34	RS-0059 0.8 m	190	76	730	4.7	122	8.00	520
								77.1% 85.95	RS-0060 1.0 m	50	14	830	0.8	48	0.65	57
		45°	PY	DOSS + BAND				54.8% 86.26 96.7% 86.87	RS-0061 1.0 m	92	7	760	2.0	70	1.95	278
		20°	QTZ VT					78.9% 87.63	RS-0062 1.0 m	144	22	790	2.3	88	1.30	97
								80.3% 88.39	RS-0063 1.0 m	94	14	800	1.6	64	0.90	47
90								82.4% 89.92	RS-0064 1.0 m 90.0 m	140	11	840	2.1	84	1.35	31
								87.7% 92.20	RS-8381 2.0 m 92.0 m	180	48	820	2.1	164	1.00	21
		17°	QTZ VTN					82.9% 92.96	RS-8382	195	56	900	3.1	107	2.10	69
								89.3% 94.64	94.0 m							
95								86.9% 96.01	RS 8395 96.0 m	119	30	1000	1.3	152	0.85	35
			QTZ					94.1%	RS 8396	112	58	1020	1.2	102	0.90	80

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-57a | CLAIM: ACE 22 F | PROPERTY: JASON |

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb ppm	Zn ppm	Ba ppm	Ag ppm	Cu ppm	Fe %	Mn ppm
							DITTO A-2	97.00								
			QTZ VNT					94.1%	RS 8396 98.0m							
			QTZ VNT					99.06	RS 8397 100.0m	91	1645	800	1.1	89	1.15	35
100			PY				MINOR PYRITE BANDS 2-5 mm	87.9%	RS 8398 102.0m	134	510	910	2.6	203	1.70	90
			SP GL QTZ VNT				GALENA CRYSTAL (0.5mm) SPHALERITE FRAG. RIP-UP CLASTS (A-1) IN A QTZ VEIN (.7m) LARGE (.5-1 cm) BLEBS OF SPHALERITE IN A PYRITE VEIN (1-1.5 cm) 102.3 A-2 - HIGHLY SILICEOUS (QTZ VEINING) WITH MINOR SPHALERITE AND TRACE GALENA	102.11							
			SP PY QTZ VNT						RS 8399 104.0m	91	2200	800	1.2	194	0.95	140
							104.68	83.9%								
105							A-2 - MODERATELY SILICEOUS	105.16	RS 8400 106.00m	91	4300	890	2.0	297	1.35	110
								72.1%								
								106.99	RS 8401 108.0m	133	145	1120	1.8	203	0.95	18
			QTZ VNT				SLICKENSIDES, CARBONACEOUS (GRAPHITE) ON FRACTURE PLANES	87.5% 108.51								
								26.4% 109.42	RS8402 110.0m	130	955	770	3.0	200	3.40	50
110								44.4% 110.95	RS8403 112.0m	100	475	730	2.3	112	3.45	355
							111.3 LAMINATED TO BANDED SILICEOUS ARGILLITE	78.7%								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-57a CLAIM: ACE 22 F PROPERTY: JASON PAGE No. 8 of 12

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

DITTO (A-2)

LAMINATED TO BANDED SILICEOUS ARGILLITE

- 75-80% SILICEOUS ARGILLITE,
- CONTORTED, SMALL SCALE FOLDING
- VARIABLE PYRITE (FINE GRAINED, BANDED)

113.80 INCREASED CARBONACEOUS MATERIAL 20vol%

114.76 INCREASED silic. lam PYRITE beds, CONTENT 70vol%

115.90

INCREASING TOWARDS THE BASE OF THE UNIT (

- LARGE AND SMALL SCALE QUARTZ VEINING THROUGHOUT (1cm - 15 cm)

From 115.90m ~ 120.40m

- FINELY LAMINATED BLACK ARGILLITE
- HIGHLY CONTORTED, VARIABLE BEDDING DUE TO FOLDING

120.40 — SPH + PY IN VEINLETS (MINOR)

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
		PPm Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM MN
112.00 78.7% 112.17								
57.9% 113.69	RS8404 114.0m	190	95	710	7.6	173	10.00	
54.8%								
83.6%	RS8405 116.0m	220	36	850	6.8	98	7.00	32
117.04								
74.6% 118.26	RS8406 118.0m	59	1765	1130	1.4	191	1.20	590
72.1% 118.87								
51.6% 119.18	RS8407 120.0m	83	3800	810	1.4	475	0.85	54
68.9% 120.40								
67.0% 122.22	RS8408 122.0m	83	2000	770	1.2	206	1.00	30
69.7% 123.44	RS8409 124.0m	65	2200	730	1.1	228	0.55	48
48.0% 125.73	RS8410 126.0m	63	1900	690	1.0	252	1.25	30
65.8% 126.99	RS8411	81	875	700	1.5	92	1.10	13
77%								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-57a CLAIM: ACE 22 F PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

Ditto (A-2)

- from 133.30m silicification increase to strong, qz veinlet (up to 1 cm width) common.

133.30 — ↓ str. silica.

136.80 — Highly contorted lam ~ banded siliceous Argillite

high py content

139.29 — str. silicification.

141.8 — — — —

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
		PPm Pb	PPm Zn	PPm Ba	PPm Ag	PPm Cu	% Fe	PPm Mn
127.00 77% 127.10								
64.1% 128.02	128.0m							
71.1% 129.54	RS8412 130.0m	56	1385	720	0.9	124	0.50	13
63.2% 131.06	RS8413 132.0m	114	145	850	2.1	198	2.20	15
61.0% 131.83								
68.2% 132.59								
83.3% 132.89								
61.3% 135.20	RS8414 134.0m	64	595	640	0.6	715	0.65	10
39.3% 134.42								
31.1% 135.64	RS8415 136.0m	990	705	660	3.0	165	2.9	40
54.1% 136.86								
75.7%	RS8416 138.0m	162	61	860	3.8	70	7.00	18
139.29	RS8417 140.0m	183	400	1050	4.8	133	6.5	63
32.8% 139.90								
52.5% 140.51								
78.3% 141.43	RS8418 142.0m	184	935	1140	2.5	87	3.85	130
74.6%								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-57a CLAIM: ACE 22 F PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

142.60 } Silic. beds banded ~ lam. Arg

A-2 (silicified) mainly siliceous bed intercalated locally

145.20 } Silic. beds banded
145.90 } ~ lam. Arg

- from 141.80m, siliceous beds banded and/or laminated Argillite (commonly contorted) bed intercalated occassionally,

150.1 } Py. lam.
150.6 } <5%

151.58 } Silic. beds banded
152.24 } ~ lam. Arg

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
		PPm Pb	PPM Zn	PPM Ba	PPm Ag	PPM Cu	% Fe	PPm Mn
74.6 / 143.56	RS8419 / 144.0m	128	375	1150	1.7	76	2.95	11
78.1 / 145.39	RS8420 / 146.0m	187	105	920	2.4	129	3.05	31
69.6 / 146.31								
57.2 / 147.83	RS8421 / 148.0m	220	38	1030	5.5	95	7.50	20
70.3 / 148.74	RS8422 / 150.0m	109	152	1170	1.50	79	1.90	11
70.1 / 150.88	RS8423 / 152.0m	177	84	890	4.0	160	6.5	98
98.0 / 153.92	RS8424 / 154.0m	174	40	850	2.4	119	3.50	51
83.6 / 155.49	RS8425 / 156.0	95	1085	1260	0.8	87	0.90	65
87.9 / 156.21								
60.5 / 156.97	RS8426	97	820	1220	0.9	66	0.9	80

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-57a CLAIM: ACE 22 F PROPERTY: JASON PAGE No. 11 of 12

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS PPm Pb	PPm Zn	PPm Ba	PPm Ag	PPm Cu	% Fe	PPm Mn
							COMMENTS:									
							DITTO (A-2 - silicified - mainly silic. beds intercalated locally)	39.3 157.58	RS8426 158.0m							
								85.2 158.88								
							poor recovery	38.0 159.72	RS8427 160.0m	121	370	1010	1.2	133	1.3	48
160	G-2 G-4						160.02 Silic beds banded & lam. Argillite 160.52	63.3 160.02								
								81.4 161.85	RS8428 162.0m	220	34	850	4.2	73	0.7	58
			QV-VNT				162.45 Silic. beds banded & laminated Arg. Qz veined 163.00	92.6 163.07								
								63.7 163.98	RS8429 164.0m	179	520	910	2.4	147	3.0	100
								82.4 164.89								
165								88.0 165.81	RS8430 166.0m	190	27	1110	2.5	71	2.60	14
							165.90 Silic. beds banded ~ lam. Arg. 166.50	100.0 166.13								
								63.9 166.75								
							167.00 poor recovery.		RS8431 168.0m	126	270	720	2.7	330	6.0	20
							Silic. beds banded ~ laminated Arg. highly contorted	39.1 169.16	RS8432 170.0m	126	41	930	2.5	91	5.5	11
170								73.9 170.69								
								78.9	RS8433 172.0m	183	4000	910	2.8	5600	5.32	23
							171.70									

Co PPm: 10

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-57a CLAIM: ACE 22 F PROPERTY: JASON

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	Co PPM	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb PPM	Zn PPM	Ba PPM	Ag PPM	Cu PPM	Fe %	Mn PPM
							172.21 DITTO (A-2; silicified, mainly) poor recovery		172.21								
	G-8							7	24.8	RS8434	130	700	1060	2.3	1010	4.24	26
							173.80 Pyrite lam, extensive (30 Vol % +)		173.74	174.0m							
	G-7		PY				174.50 siliceous		74.3								
175	G-2 G-4						175.26	11	175.26	RS8435	220	780	1200	4.5	1200	7.98	38
	G-8		PY						84.9	176.0m							
									176.78								
								8	90.2	RS8436	143	700	1320	2.6	1040	4.80	31
									178.61	178.0m							
								6	54.2	RS8437	143	360	1070	1.4	500	1.96	26
							(Poor recovery)		179.68 30.4 180.14	180.0m							
180									62.3 180.75								
			QTZ VNT				MINOR QUARTZ VEINING	4	86.2	RS8438	250	1000	860	1.2	535	0.49	19
							182.27		182.27	182.27m							
							END OF THE HOLE										
185																	

090712

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-58 | CLAIM Jason 146 | PROPERTY Jason | PAGE No. 1 of 12

CORE SIZE NQ | AZIMUTH Collar 225° 163.37m 224° | ELEV. COLLAR 1451.2m | LOGGED BY R. Simpson & K.I. Lu

ANGLE of HOLE Collar -70° 163.37m -54° | TOTAL DEPTH 170.99m | NORTHING 7,003,984.71 | DATE BEGUN July 12/1980 FINISHED July 17/1980

SECTION | % RECOVERY 68.82 | EASTING 435,041.64 | CORE STORED AT Jason Property

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS: Casing to 12.19m

SCALE: 1:100

DESCRIPTIVE GEOLOGY

Depth	Inclination	Azimuth
Collar	70°	225°
32.31m	70°	224°
93.27m	60°	* 221° (?)
163.37m	54°	224°

* uncertain, 224° is chosen for cross-section

overburden.

0m

5

10

% CORE RECOVERED

SAMPLE INTERVAL & NUMBER

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

Office of the Supervising Mining Recorder
DEC 9 1980
WHITEHORSE
Yukon Territory

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-58 CLAIM: JASON 146 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

Overburden DESCRIPTIVE GEOLOGY

12.19

A-3 (A-2 TYPE ROCK)

- SAND BANDS AVERAGE 0.5-1.0 cm AND MAKE UP to 25-30 Vol% in UPPER PART.
- PYRITE IS COMMON WITHIN THE SAND BANDS
- ALTERATION IS MODERATE FOR THE FIRST 10 METERS

15

G-5

25°

20

SS bands remarkable 1 cm+ thick some 40 vol% + in total

35°

G-7

25

transition

sand bands decreasing quantity to <10 vol% and thickness to <1 cm

32°

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER
	12.19
11.9%	
	14.63
47.5%	
	15.85
47.4%	
	17.37
52.1%	
	20.42
45.4%	
	22.25
40.8%	
	23.77
56.9%	
	25.30
59.3%	
	26.21
79.3%	

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-58 CLAIM: JASON 146 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Ditto (A-3.)

• s.s. bands and lam. about 5~7 vol% at lower part.

28.5 — gradation

G-7

A-2-C.

• sandstone bands <5mm thick common (1~2 vol%), (few 5mm+)

• silt~s.s. lamination ~3 vol%

• local A-3.

30

32°

32°

35

35°

33°

39.62 coarse ss

40.05 bed. some lam.

40

39°

s.s. about 40 vol%

A-3.

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER
60.0%	27.13
	27.58
53.3%	
	28.50
63.9%	
	29.11
78.9%	
	29.87
43.5%	
	30.33
79.5%	
	31.55
75.0%	
	32.31
60.7%	
	32.92
85.2%	
	33.53
73.0%	
	34.75
71.4%	
	35.66
79.2%	
	37.49
75.4%	
	38.10
93.3%	
	38.40
74.3%	
	40.23
88.5%	
	40.84
60.7%	
	41.45

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-58 CLAIM: JASON 146 PROPERTY: JASON PAGE No. 4 of 12

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
	6-7		QTZ vnl.				← 1 cm Ditto (A-2-C)	60.7 %					
								80.0 %	43.59 44.04				
								100.0 %	44.50				
45		27						62.5 %					
								78.9 %	46.18 46.94				
								88.5 %	47.55				
								61.5 %					
		27							49.68				
50							50.00 — transition A-2-C with some siliceous beds intercalated.	66.3 %					
								60.0 %	50.60 50.90				
							• sand bands < 5 mm thickness, 1 vol% ±	55.7 %					
							• silt ~ ss. lamination (1~2 mm thick) < 3 vol%		52.73				
							• siliceous bed (1~4 cm thick) intercalated occasionally	44.3 %	53.34				
							54.60 54.80 } Qz (sid) Vein bundle	70.5 %	53.95				
								75.8 %	54.86				
55		23						50.3 %					
								75.4 %	56.39 57.00				

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-58 CLAIM: JASON 146 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

Ditto (A-2-C)

- fairly uniform from ±5m± to 75m±.
- rare contortion.

S.G. - 2.67

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
	57.0						
40%	57.60						
50.0%	58.06						
58.1%	58.37						
76.7%	58.67						
47.8%	59.13						
57.4%	59.74						
65.6%	60.35						
47.5%	60.96						
56.5%	61.42						
76.3%	62.18						
33.3%	62.48						
52.2%	62.94						
46.1%	63.70						
67.4%	64.18						
44.4%	64.61						
57.7%	65.84						
76.7%	66.14						
39.1%	66.60						
73.9%	67.06						
81.3%	67.97						
68.9%	68.58						
78.3%	69.04						
103.3%	69.64						
72.6%	70.26						
36.7%	70.56						
52.2%	71.02						
67.2%	71.63						
79.1%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-58 CLAIM: JASON 146 PROPERTY: JASON PAGE No. 6 of 12

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
		38°					SIDERITE PYRITE QUARTZ MICRO-VEINLETS 4cm; Ditto (A-2-C)	91.8%	72.54 / 73.15				
								76.2%					
								93.3%	74.37 / 74.52				
								80.6%	74.83				
75		37°						92.2%					
							78.03 — B-2-L fgt: chl.15 (<5mm ϕ) Arg60 (1cm x 4cm max.)		78.03				
							78.8 — A-3 (A-2 TYPE ROCK)	65.6%					
80							• slaty cleavage extensive	93.4%	79.86				
							• sand band (<5~7mm thick) 1~2 vol%		81.08				
							• silt~ss lam. 5 vol% +	69.5%					
			QTZ VNT				QUARTZ VEINING WITH BRECCIA (A-2) CLASTS		82.75				
							83.20 — A-3 / some A-2-b	93.4%					
				4cm					84.12				
85			QTZ SID. VNT				QTZ, SID. VEINING WITH A-2 BRECCIA FRAGMENTS; - SAND BANDS INCREASING TO 1-3 cm.	86.2%					
							87.00						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-58 CLAIM: JASON 146 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

87.00

A-3 (A-2 ROCK)

- MINOR DISTORTIONS, DISPLACEMENTS AND PINCH OUTS OF THE SAND BANDS OCCUR

- CROSS-LAMINATED ARGILLITE BANDS ARE COMMON

S.G. = 2.73

91.80

A-2b

- COARSE TO FINELY LAMINATED SANDS AND SILTS

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER
	87.17
94.5%	89.00
95.9%	90.22
90.2%	93.27
80.5%	95.40
100.0%	96.32
93.4%	97.84
100.0%	99.36
52.1%	99.97
62.3%	100.58
78.3%	101.04
50.0%	101.50
100.0%	101.80

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-58 CLAIM: JASON 146 PROPERTY: JASON PAGE No. 8 of 12

COMMENTS:

DESCRIPTIVE GEOLOGY

A-26 DITTO

S.G. = 2.71

— PYRITE ALONG FRACTURES

116.45 — B - 2-L ANGULAR ARGILLITE CLASTS 65 SILICEOUS MATRIX 35

117.00

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
	G-7						51.6%	102.11							
							70.0%	102.41							
							67.7%	102.72							
							90.0%	103.02							
							45.9%	103.63							
							58.1%	103.94							
							66.7%	104.39							
105		25°					91.3%	104.85							
							103.2%	105.46							
							73.9%	105.92							
							75.0%	106.53							
							108.9%	106.98							
							90.8%	107.90							
							93.4%	108.51							
							21.3%	109.73							
110		30°					100.0%	110.03							
							28.9%	110.79							
							93.5%	111.56							
							58.6%	113.08							
							86.9%	113.69							
							72.8%	119.61							
115		33°	PY				86.4%	116.01							
								H6.0m							
							50.7%	116.74 PH-9235	12	36	2420	0.4	113	6.00	1250

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-58 CLAIM: JASON 146 PROPERTY: JASON

COMMENTS:

DESCRIPTIVE GEOLOGY

A-2b

- LAMINATED SILT BANDS WITH OCCASSIONAL SAND BANDS

1 cm

GOUGE ZONE (4 cm)

130.0 — Specific Gravity = 2.67

QUARTZ-SIDERITE RICH (80 vol%) Rock
- about 20 vol% Argillite (fragmented in part)

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb ppm	Zn ppm	Ba ppm	Ag ppm	Cu ppm	Fe %	Mn ppm
							117.30								
	G-7						68.1% 117.65								
								118.0							
							81.4% 119.48	PH-9236	15	17	2650	0.8	65	3.70	2600
120		33°	SID VNT				109.8% 120.09	120.0							
							82.0% 120.70	PH-9237	27	14	2760	0.7	380	6.40	940
							72.5%	122.0							
							122.99	PH-9238	16	19	3010	2.0	51	3.15	1000
							69.7% 123.75								
							91.8% 124.36	124.0							
							124.81								
125		35°					73.7% 125.27	PH-9239	20	54	2990	0.6	70	5.00	1800
							33.7% 126.19	126.0							
							55.7% 126.80	PH-9240	26	33	3040	0.8	49	3.75	975
							49.2% 127.41								
							70.5% 128.02	128.0							
							46.7% 128.32								
							62.3% 128.93	PH-9241	46	39	2580	0.6	61	3.05	1000
							57.4% 129.54								
							73.8% 130.15	130.0 m							
130		34°					73.7% 130.91	RS8439	12	78	2580	0.2	101	6.25	3490
							26.2%	132.0 m							

132.59

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-58 CLAIM: JASON 146 PROPERTY: JASON

COMMENTS:

DESCRIPTIVE GEOLOGY

DITTO (Q_3 - Siderite rock)

(• POSSIBLE ORE HORIZON?)

• many quart vein.

• upper part more argillite (~30vol%)

Fairly broken.

140.50 ← Specific gravity = 3.31.

A-1-a (local A-2)

INTENSELY SIDERITIZED

- FAIRLY SILICEOUS.
- BECOMING INCREASINGLY MORE CARBONACEOUS
- SIDERITE OCCURS AS THICK BEDS FROM 139-144m AND THEN GRADES INTO THINNER BEDDED AND LAMINATED ZONES

sp?

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
									PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM Mn
							132.00								
							26.2%	132							
							132.59								
	G4		S10 Q12				93.3%								
							132.74	RS8440	10	76	1650	0.2	151	8.75	5010
							67.1%								
							133.50	134.0m							
							39.1%								
							133.96								
							73.8%								
135							134.57								
							82.0%	RS8441	12	69	2470	0.2	131	10.00	6020
							135.18								
							35.5%	136.0m							
							136.25								
							56.7%								
							136.55								
							67.0%	RS8442	6	79	1750	0.2	148	10.00	6400
							137.46								
							04.6%	138.0m							
							138.99								
							44.3%	RS8443	24	375	900	0.2	349	10.0	6920
							139.60								
140								140.0m							
							44.3%								
		40°						RS8444	33	65	1050	0.2	386	10.0	5730
	G-2						141.27								
							90.2%	142.0m							
	G-4						142.04								
							51.7%	RS8445	28	85	750	1.3	1290	10.0	6880
								144.0m							
							144.98								
145		45°					51.7%	RS8446	36	125	1030	2.0	1450		3210
							145.08								
								146.0m							
							90.2%	RS8447	46	13000	1320	1.0	84	10.0	7360
								148.13							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-58 CLAIM: JASON 146 PROPERTY: JASON PAGE No. 11 of 12

COMMENTS:

DESCRIPTIVE GEOLOGY

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb ppm	Zn ppm	Ba ppm	Ag ppm	Cu ppm	Fe %	Mn ppm
							SPH. ZONE WITHIN Ditto (SIDERITIZED A-1-a) - PYRITE CRYSTALS OF 0.5 cm COMMON	90.2%	148.0m							
	G-2 + G-4		SPH GTZ SID PY					148.13 92.9%	RS8448 150.0m	48	130	1210	0.8	162	10.0	2180
150		45°					S.G. = 2.86	149.96 86.1%	RS8449 152.0m	36	193	1130	1.7	260	10.0	1800
								151.18 57.6%								
								152.10 91.7%	RS8450 154.0m	38	63	1270	0.8	96	10.00	2090
								153.31 76.2%								
155		50°						154.53 68.6%	RS8451 156.0m	17	126	570	0.4	160	10.00	4910
			SID GTZ				MINOR BRECCIA, FAULT RELATED AT 15° TO C.A. { CLASTS 1-4 cm IN SIZE ORIENTED PARALLEL TO THE ANGLE OF FAULTING	156.06 52.5%	RS8452 158.0m	44	310	1370	1.6	240	8.00	1810
								157.28 89.0%								
	G-6 + G-7						- ALTERATION IS LESS INTENSE IN LOWER PART - SMALL INDIVIDUAL SIDERITE CRYSTALS PRESENT GIVE THE ROCK A SPECKLED TEXTURE - GRADING INTO A-1a	158.19 94.1%	RS8453 160.0m	54	1450	1410	1.2	66	2.60	910
160									RS8454 162.0m	41	128	1120	0.8	57	3.60	1620
								161.24								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-58 CLAIM: JASON 146 PROPERTY: JASON PAGE No. 12 of 12

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM Mn
	G-7						DITTO (A-1-a) • LESS SILICEOUS	93.4%	RS8455 164.0m	21	870	680	0.8	112	8.0	1620
								163.98								
165	"						165.5 } B-1-L like (<4cm ϕ) 165.7 }	77.1%	RS8456 166.0m	20	52	920	0.6	62	10.00	2900
								165.51 103.3%								
								166.12								
	"							24.1%	RS8457 168.0m	24	272	1230	0.6	360	8.0	1600
								168.86	RS8458 170.0m	20	95	1490	0.4	134	10.00	2820
170	"						Specific gravity = 2.86 170.99m	37.1%	RS8459 170.99m	28	130	1810	1.0	190	10.00	2720
								170.99								
							END of the HOLE									
175																

090712

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-59 | CLAIM Jason 153 | PROPERTY Jason | PAGE No. 1 of 10

CORE SIZE NQ | AZIMUTH collar 205° 152.4m 186° | ELEV. COLLAR 1407.2m | LOGGED BY Angie Stanta

ANGLE of HOLE collar -50° 152.4m -49.5° | TOTAL DEPTH 153.31m | NORTHING 7,004,797.34 | DATE BEGUN 7/18/80 FINISHED 7/29/80

SECTION | % RECOVERY 62.19% | EASTING 433,273.45 | CORE STORED AT Jason Property

SCALE: 1 : 100

COMMENTS:

DESCRIPTIVE GEOLOGY

Sperry Sun Test Results

Depth	Inclination	Azimuth
collar	-50°	205°
91.4m	-52°	195°
121.9m	-52°	187°
152.4m	-49.5°	186°

OVERBURDEN

15m — 15.24m

A-2

- massive with faint silt laminations, locally A-1
- good qtz veining developed (knarr).
- carbonaceous.
- locally calcareous
- extensively carbonatized.

16.7 — poor recovery.

% CORE RECOVERED: 29.2% | 35.9%

SAMPLE INTERVAL & NUMBER

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

Office of the Supervising Mining Recorder
DEC 9 1980
WHITEHORSE
Yukon Territory

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-59 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 2 of 10

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag
22m							COMMENTS:						
	G_5	60	py				DITTO (A-2)						
							poor recovery	21.3%					
							py infilling fracture then offset by cleavage.						
25		77	py				qtz veining (minor)						
		48	py				py blebs						
			py				5cm zone of arg which has been disturbed, slightly slumped & rotated.						
			py				qtz veining (minor)	17.1%					
							poor recovery						
	G_5	78											
30			py				minor qtz veining						
			py				zone of arg which has been slumped & distorted.						
			py										
	G_5	85											
			py										
35		48	py										

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-59 CLAIM: Jason 153 PROPERTY: JASON PAGE No. 3 of 10

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
37m	G_6						DITTO (A-2)								
	G_5		Py												
40			Py Sph	qtz			- good qtz veining + py xls.								
			Py												
			Sph	qtz			- sideritization								
			Py	qtz											
			Py												
	G_6	85					- carbonitization (sid+calc)								
			Py	sid.											
45		78	Sph Py Sph	qtz											
	G_5		Py	qtz			} sideritized (weakly) & Qz veining 1~3% Py cube scattered (1~3% max 8mm across)								
		80													
			Py												
50	G_6														

• from 38.6m to 42.10m Qz veining and sideritization remarkable.
Qz vein: up to 5cm, 3 vol% in overall section
Siderite: up to 30 vol% + in 10cm 10 vol% in overall section
Py: cube or fine grain dissem 3~5 vol% in overall section

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-59 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 4 of 10

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
52m	G6			S			badly broken up rx DITTO (A-2)								
							poor recovery	18.7%							
55		58													
		38													
				calc											
			py				Py dissem (3 vol% + 1mm max)								
				calc											
60	G6														
			py	calc											
		35													
65															
			py												
			py												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-59 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 5 of 10

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
67m	G_5		sph				DITTO (A-2)						
		42	sid py	qtz			← siderite (+ Qz) vein bundle 10 cm; no recovery	50.8	68.58				
								0%	69.19				
70			py	qtz				100.0	69.79				
		38	sph	qtz									
		38		qtz									
75	G_5	0 of 5°	py				extensive qtz (sid?) veining						
		35	py	qtz			good qtz (sid?) veining						
		0 of 5°		qtz sid									
		35	sph				good qtz (sid?) veining						
80	G_5	0 of 5°											
		0 of 15	py										

- from 75.2m to 82.85m siderite (+ Qz) veinning (or filled in breccia) remarkable up to 1.5 cm width 5 vol % + in over all section. sideritization (weak) and pyritization (1~3 vol %) also seen, slightly contorted in this section.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-59 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 6 of 10

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
82m	G5		sph				qtz(sd?) veining		82.30							
							DITTO (A-2)	55.7	82.91							
							82.91	38.5	83.82							
			py				poor recovery	39.4	85.19							
85		25					85.19	41.3	86.11							
			py					42.1	86.87							
		38	py	sid			• from 89.76m to 109m ± Qz and/or siderite veining locally extensive, up to 2.5cm width, and up to 30vol% + in 30cm interval	47.2	87.93							
								66.2	88.70							
		25°						51.9	89.76							
90	G6	25°	py	qtz sid				55.7	90.98							
			py	qtz sid				67.1	91.74							
	G5	16/		qtz sid				88.8								
			py													
			py						94.95							
95		25	py	sid qtz				75.8	PH 8723	92	126	480	0.5	67	3.05	2900
								57.4	95.85							
							96.47 very poor recovery	12.4%	PH 8724	45	365	610	0.2	32	3.00	2750

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-59 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 7 of 10

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
97m	Gs						" poor recovery DITTO (A-2)	12.4%								
									97.84							
							"	19.7%								
								39.6 / 39.06								
			py	qtz sid			"	27.9	PH8725	66	890	500	0.4	64	3.00	3100
100							"									
							100.89		100.89							
							contorted	54.1 / 101.5								
		45						90.2 / 102.1	PH8726	56	360	510	0.2	118	9.65	6500
			py				intense qtz + sid veining	37.7 / 103.33								
								53.3 / 103.63	103.33							
							104.0	31.1 / 104.24	PH8727	62	1200	270	0.2	515	7.20	5800
105	Gs						very poor recovery	12.0 / 105.16	105.16							
				qtz				18.0	PH8728	105	113	540	0.3	141	3.45	2250
								106.98	106.98							
							poor recovery	13.1 / 108.05	PH8729	188	215	730	0.4	272	2.70	1600
			py	sid				56.5 / 108.51								
								40.0 / 108.81	108.81							
110							very poor recovery	7.0	PH8730	470	128	350	0.7	60	10.00	9050
	Gs							111.25	111.25							
								4.1								

Fault zone

*** (- correlates to fault zone in 80-60 at 168.20 to 174.0m)

· fault zone gauge mainly A-2 rock

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-59 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 8 of 10

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb (ppm)	Zn (ppm)	Ba (ppm)	Ag (ppm oz/ton)	Cu (ppm)	Fe (%)	Mn (ppm)
112m	G5						v. poor recovery; Ditto (fault zone); v. poor recovery	4.1%; 10.4%	112.47 PH8731	660	1815	1010	1.4	48	4.80	2500
							114.30		114.30							
115							Ditto (A-2) · fairly broken poor recovery	39.3; 37.7; 41.0	114.91 PH8732 115.52; 116.13	22	69	2500	0.6	132	2.00	650
			py	sid				39.3; 31.1; 33.3; 50.8	116.74 PH8733 117.35; 117.63; 118.26	49	59	2950	0.6	102	1.65	615
		+3					118.72	65.2; 37.8; 71.0; 25.5	118.72; 119.17 PH8734; 119.79; 120.40	193	81	1760	1.5	116	2.45	910
120			py				B-4-L; Mtx: pebbly ssdt mtx (SS-5); Fgt: cht 40 (up to 5 cm ϕ), arg 8 (<6 cm ϕ); - many qtz veins; - v. siliceous									
			py					72.8	AS 8460 (2.28m)	0.04	0.03	<0.01	0.05	0.03	8.27	0.002
			py	sid.			122.68		122.68							
		32°					Massive sulfide (+ siderite) zone; Sid. Qz matrix with thin band of Sp, Gn and Po & Po; arg. fgt. some; Po (Py) mainly Sp. Gn sprinkled; Siliceous bed; Sp bands	80.4	123.50 8461 (0.82m)	5.55	5.50	0.01	1.54	0.02	12.70	<0.002
							- generally the zone is banded, but some crudely bedded portions are found.	100.0	124.00 8462 (0.5m)	7.97	5.45	<0.01	1.60	<0.01	6.50	<0.002
125							- altered arg. frags are common throughout; - pyrrhotite v. common; - Some Gn, Qz, Sp, veinlets seen.	100.0	125.00 8463 (1.0m)	8.55	5.10	0.02	2.07	0.02	19.18	0.006
								100.0	126.00 8464 (1.0m)	9.35	4.00	<0.01	2.50	0.03	34.32	<0.002
								99.8	127.00 8465 (1.0m)	8.13	4.65	<0.01	2.53	0.02	25.91	<0.002

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-59 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 9 of 10

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag	% Cu	% Fe	oz/ton Au
127m							COMMENTS:									
							Siliceous bed	99.7	8466 (1.0m) 128.00	7.05	5.30	<0.01	2.16	0.02	28.22	<0.002
							Py (Po) > Sid > Gn > Sp massive Py (Po) & Sid. irregular shape mixed ("boiling texture") with Gn, Gn-Sp thin banding.	99.7	8467 (1.0m) 129.00	13.50	3.00	<0.01	3.18	0.03	33.01	<0.002
130								99.8	8468 (1.0m) 130.00	16.65	4.65	<0.01	3.95	<0.01	27.17	<0.002
							Sid > Py ≥ Gn > Sp irreg. shape patches mixed.	100.0	8469 (1.0m) 131.00	8.40	1.58	<0.01	2.10	0.03	33.67	<0.002
								100.0	8470 (1.0m) 132.00	11.76	3.00	<0.01	2.82	0.03	32.10	<0.002
							Semi massive py (few Po.) with patches of siderite	100.0	8471 (1.0m) 133.00	11.31	3.73	<0.01	2.64	0.01	34.27	<0.002
							Sp abundant, as thin banded texture. few arg. fgt. (subrounded <3cm length) Gn scattered	100.0	8472 (1.0m) 134.00	12.99	9.35	<0.01	2.97	0.01	24.80	<0.002
135							Qz veining common (1 to 3cm width) at 134.90m, vugg with qz xstals (mm) seen few Gn patches in Py and Sid.	100.0	8473 (1.0m) 135.00	12.79	3.50	<0.01	2.78	0.02	29.84	<0.002
							Gn rich with Qz, Py (Po) & Sp some.	99.5	8474 (1.0m) 136.00	9.18	2.62	<0.01	1.87	0.01	31.40	<0.002
							siderite abundant (35 to 40 vol %) with so-called "boiling texture" Py > Gn > Sp	98.7	8475 (1.0m) 137.00	26.61	1.27	<0.01	5.21	0.01	26.04	<0.002
								98.7	8476 (1.0m) 138.00	6.50	1.67	<0.01	1.54	0.01	33.16	<0.002
							Py ≫ Sid. > Gn > Sp (Po)	96.8	8477 (1.0m) 139.00	2.87	1.61	<0.01	0.93	0.01	35.63	<0.002
							Siliceous bed									
140		37°					Siliceous bed Qz ≥ Py > Gn = Sp. 1cm. seen. Massive Sulfide zone	82.8	8478 (1.0m) 140.00	4.40	4.10	<0.01	1.23	0.02	26.07	0.003
		42°					140.60m	92.8	8479 (0.6m) 140.60	13.97	3.15	0.01	3.15	0.03	20.49	<0.002
							B-1-Ec (sideritized with Gn dissem.) Fgt: Arg 80+ (A-2-C type <8cm ø)	93.9	8480 (1.5m)	6.91	1.26	<0.01	1.78	0.01	11.09	0.002

1:20 detail sketch on the ORE Zone is available in office file.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-59 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 10 of 10

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag	% Cu	% Fe	oz/ton Au (or Mn ppm)
142m	G6	36	sph				142.10		143.10							
							B-1-Ec	97.2	As 8481 143.0 (0.9m)	0.28	0.10	0.02	0.07	<0.01	5.24	<0.002
							Fgt: Arg 75~80 (A-2-C~A-3 type rocks, 5~7 cm φ common some 10 cm φ±)	97.2 143.77		ppm	ppm	ppm	ppm	ppm	%	Mn ppm
								100.0 144.78	PH8735	140	71	1980	0.2	74	3.90	970
145								83.2 145.85	145.0							
		38	py	sid			· In part the rock similar to that of contorted (by slaty cleavage) A-2-C	96.5	PH8736	4000	110	1680	4.8	91	3.90	1000
			gal	sid				147.0								
		34						147.83	PH8737	1055	138	1590	1.2	75	4.50	1250
								77.5	148.48							
			gal py				148.55 ore fragment carbonatized	77.5	As 8482 148.96 (0.48m)	3.12%	0.13%	<0.01%	0.76 oz/T	0.03%	14.24%	<0.002 Au
							B-2-Eb	77.5	PH8738							
150			Pg	Calc			Fgt: Arg 5- (<5 cm φ) Breccias 90- (B-1-L 75+, <30 cm φ, B-4-L, 42 cm φ one) one Gn disseminated sideritic rock 48 cm across.	56.6	149.96 151.0	280	215	1080	0.4	211	2.75	1300
							151.18 151.60 B-4-L (boulder ??)	73.8	151.18							
		38		cdc			poor recovery 152.70 A-2-C - very contorted - some breccia-like texture seen.	27.5	151.79 PH8739 152.70	147	225	1370	0.2	157	2.90	1800
							153.31	45.9	153.31							
							end of hole									
155																

ASSAY RESULT:

From 122.68m to 140.60m (17.92m interval)

10.43% Pb; 2.48 oz/T Ag; 0.018% Cu;
3.81% Zn; <0.01% Ba; 27.94% Fe; Core Recovery = 98.05%

(or from 122.68m to 137.0m (14.32m interval)
11.51% Pb; 2.71 oz/T Ag
4.12% Zn; 27.49% Fe Core recovery = 98.68%)

090712

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-60 | CLAIM Jason 153 | PROPERTY Jason | PAGE No. 1 of 16

CORE SIZE 0m – 149.66m HQ, 149.66m → NQ | AZIMUTH collar 205°, 240.79m 189° | ELEV. COLLAR 1,407.2m | LOGGED BY Angie Stanta

ANGLE of HOLE collar -70°, 240.79m 60° | TOTAL DEPTH 242.32m | NORTHING 7,004,797.34 | DATE BEGUN July 29/80 FINISHED Aug 12/80

SECTION | % RECOVERY 80.99% | EASTING 433,273.45 | CORE STORED AT Jason Property

COMMENTS: Tri-coned to 25.6m

SCALE: 1 : 100

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
0m													
10													
25m													

Sperry Sun Test Results.

Depth	Inclination	Azimuth
collar	70°	205°
30.48m	69°	—
57.91m	68°	215°
88.39m	67°	214°
118.87m	64.5°	208°
149.35m	62°	206°
182.88m	61°	195°
213.36m	61°	191°
240.79m	60°	189°

OVERBURDEN

11~12m

A-2.

[the hole was triconed to 25.60 in an attempt to bypass the very badly broken argillites encountered in 80-59.]

25.60

G7 72 py gal Bg Dg Dn

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DEC 9 1980
WHITEHORSE
Yukon Territory

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-60 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 2 of 16

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
27'	G_2	90					DITTO (A-2)								
		84	py				- ranges from massive silty arg. to argillic sdst.								
							- calcareous cement.								
							- extensive quartz veining								
30		90	py				- carbonaceous.								
							- local A-1								
		90													
35	G_2	80													
			py				? possible fault								
		40	py												
40		43	py												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-60 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 3 of 16

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
45	G_2	32					DITTO A-2								
		35	Py	p											
		90		calc											
		85	Py												
		78	Py												
50	G_8	45					local massive, silty argillite								
		50													
							- qtz occurs in v. wide veins, but calcite occurs in v. thin veinlets.								
55		34													

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-60 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 4 of 16

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED

SAMPLE INTERVAL & NUMBER

ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

DITTO (A-2)

intense carbonatization with many veins of red quartz-calcite - org. has been bleached to a very light colour.

intense carbonatization

← sp in Qz-Py vlt
Up to 3mm width. 18cm

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-60 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 5 of 16

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
72	Gy	22					DITTO (A-2)								
							• from 71.9m, rock is fairly contorted bedding ranging 80° to 10° or 0°; folding, brecciated texture commonly seen.								
75		25	PY												
				calc											
		23													
80	Gy	55													
		42													
			PY	V1			A-1 carb.								
85		35	PY												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-60 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 6 of 16

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
87m			PY				bedding distorted by calc+ser. veinlets. DITTO (A-2 mainly)								
	G5	30	PY	calc ser.			? A-2-C like. band of v. fine grained py: A-1								
	G6						rock bleached due to hi carbon content.								
90		24													
	G4	84													
		20	Q VII												
		75°					94.969								
95	G7	63°					✡G (possibly correlated to 102.3m± ?)								
			Q												
	G7		Q				96.53 } A-1 carb. { Possible folding axis part.								
	8		PY												
	G7		Q VII												
		40													
100							• from 101m A-2 rock local A-2-Q, G4 and G6-8 alternated slightly contorted and folded								
			B VII												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-60 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 7 of 16

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
102m	G4	35	Qv				☆ ← (Possibly correlated to 95.2m ?) Ditto (A-2)								
	"		Qv												
	"		Qv												
105	G4	45 46					fairly contorted.								
	G5														
		15													
110		20													
		16	Qz				112.93 15cm Qz vit bundle								
115	G4	16					local A-2-b fairly contorted.								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-60 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 8 of 16

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

DITTO (A-2)

• 125.5m ± ~ 131.0m ±, intense qz-sid. veining with py. sp.

117m

- sph + py in qtz bands.

120

- bands of v. fine grained py.

125

- v. well developed qtz-sid veining with sph + py
- fairly contorted (due to slatey cleavage)

128.76 — Qz-sid (with sp, py) veins — 129.76

130

130.31 remarkable sp(+py) in bands also some in qz-sid veins — 131.03

- contorted qtz veinlets

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb ppm %	Zn ppm %	Ba ppm %	Ag ppm oz/ton	Cu ppm	Fe %	Mn ppm
	125.37							
92.2	126.17							
	KL9320 126.80	48	5200	770	0.8	22	2.50	1650
	127.40							
94.7	KL9321 128.32	62	102	660	0.8	16	2.80	1400
100.0	128.76							
		%	%	%	oz/ton	%	%	Au oz/ton
100.0	KL9327 (1.0m)	<0.01	1.28	0.08	0.05	<0.01	5.45	<0.002
	129.76							
95.0	KL9328 (0.55m)	0.01	0.12	0.09	0.04	0.01	4.50	<0.002
	130.31							
94.1	KL9329 (0.62m)	0.01	8.20	0.01	0.06	0.01	5.55	<0.002
	131.03							
89.8	KL9322	62	7100	83	1.1	73	2.20	1100

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-60 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 9 of 16

DITTO A-2

- well developed qtz + sid veining
- py cubes common
- also some sph

local A-2-b
- slightly contorted

v. poor recovery

very poor recovery

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm oz/ton Ag	ppm Cu	% Zn	ppm Mn
132									132.25							
								132.89								
								90.8	KL 9323	80	2700	950	1.9	73	2.15	970
								134.42								
							134.65		134.65							
135			py					84.9	KL 9324	30	140	750	0.8	26	2.70	1600
								135.94								
								92.2	136.60							
								137.47	KL 9325	200	1350	760	0.9	63	3.10	2100
								97.4								
								138.99	138.80							
								98.0								
140								140.71	KL 9326	190	92	620	0.9	74	3.70	2400
								73.9								
									142.04							
								18.9%								
									143.26							
								74.7%								
									144.17							
145			py					89.5%	KL 9330	270	250	470	0.9	100	3.50	2600
									145.69							
								75.0%								
							146.61		146.61							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80 - 60 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 10 of 16

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

147'

DITTO (A-2)

v. poor recovery — 17.8% — 148.13

66% — 149.65

150 — 150.27 — 62.9%

v. poor recovery — 154.1%

155.70 — ? — ? — ? —

154.23

poor recovery — 28.3%

155.75

155 — 85.2% — 156.36

A-1-a Strongly sideritized.

- very siliceous
- py common throughout in veins and veinlets

64.5% — 157.43

60.7% — 158.50

160 — 6.0% — 160.32

v. poor recovery — 160.38 — ? — ? —

13.1% — 161.85

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-60 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 11 of 16

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm Ag	ppm Cu	% Fe	ppm Mn
162 m	G_5						A-2									
		10	py	qtz			py dissem in thin vlts. -v. siliceous									
		0														
165																
	G_6						many qtz + sid vlts; v. contorted due to silicification? carbonatized									
								51.6%	167.03							
			py				168.25	14.8%	168.25							
170	G_6						fault zone (** -correlates to fault zone in 80-59 at 104 to 114.30m)	2.7%	169.45 PH8740	275	123	100	0.2	128	10.00	440
								0.0%	171.30							
							no core	0.0%	173.13							
		25	py				174.04 intense calc + sid veining; brecciation	36.1%	174.04 PH8741	260	104	770	0.8	200	8.40	4200
175	G_5	40						89.0%	174.65 175.0							
		25		sid			brecciated	90.2	175.56 PH8742	540	44	1260	2.2	120	4.50	935
							176.58		177.0							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-60 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 12 of 16

COMMENTS:

DESCRIPTIVE GEOLOGY

A-2-b (A-2-c?)

- v. siliceous
- original texture destroyed due to remarkable foliation development.
- locally silty.
- calc. + sid. veining common.
- v. carbonaceous.

} ssdt. bed. - v. contorted.

185.32 Semi massive siderite rock containing Arg, fgt. and Gn patches (or dissem)

186.10 ore grade

- generally has a massive, brecciated texture - some crude lamination seen especially in ore fragment found further on.
- minor sphalerite - occurs in mtx.

massive Qz vein

189.80 B-1-L

Fgt: Arg 50- (<6 cm ϕ)

- lower part few cherty fgt & more matrix

191.04 massive Galena-(Siderite)zone

191.57

SECTION	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
			ppm % Pb	ppm % Zn	ppm % Ba	ppm oz/ton Ag	ppm % Cu	% Fe	ppm Mn
177	90.2	177.0							
	178.09	PH8743	275	36	1040	1.2	111	5.60	1700
	95.3	179.07							
		179.0							
180	54.7	PH8744	420	54	1100	1.8	164	4.95	1150
	180.44								
	98.9	181.0							
	181.36								
	87.5	PH8745	182	167	1160	1.2	113	5.50	845
	182.88								
		183.0							
	90.6	PH8746	225	28	1260	1.0	75	2.80	590
		184.32							
185	90.6	8548	% 0.05	% <0.01	% 0.12	oz/ton 0.06	% <0.01	% 4.13	oz/ton Au <0.002
		185.32							
	100.0	8531 (1.0m)	0.48	0.12	0.01	0.09	0.03	33.18	<0.002
		186.32							
	96.7	8532 (2.32m)	7.91	0.08	<0.01	2.09	0.02	34.50	0.002
		188.64							
	91.2	8533 (1.13m)	11.50	0.10	0.01	2.12	0.03	18.55	0.002
		189.77							
190	95.6	8534 (1.80m)	13.20	0.34	0.06	1.90	0.01	10.15	<0.002
		191.57							
		8549	0.13	0.11	0.09	0.04	0.01	8.55	.002

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-60 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 13 of 16

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	Pb	Zn	Ba	oz/ton Ag	% Cu	% Fe	ppm Mn
192		28						98.3	8549 192.57 (1.0m)							
			cpy	35			B-2-L - arg mtx - frags. - arg$_{15}$ (≈2mm to 1.5cm) cht$_5$ (< 3cm ϕ. sid$_{15}$ (up to 4.5cm) ss$_8$ (up to 2.5cm). - minor qtz veinlets throughout.	98.3 193.39 58.7 194.31	PH8747	ppm 3450	ppm 535	ppm 480	ppm 13.	ppm 8750	% 750	Mn ppm 2900
195								94.2	194.0 PH8748	1260	220	70	1.1	127	10.00	6850
	G4						196.44 - sideritized rock of unknown origin cut by intense qtz + sid veining.	196.90 96.80 197.21	196.0 PH8749	815	900	400	1.3	130	6.25	3200
	G6	32			Po		197.31 A-2 - locally contorted - v. siliceous & carbonaceous	91.8 197.82	198.0							
							198.60 B-2-E$_c$ - mtx: arg - fgts: cht$_{15}$ (1mm to 4cm ϕ), arg (sericitized) (≈14cm) - lower part of unit is more siliceous and the fgt. size is generally larger.	37.1 199.95	PH8750	93	115	1480	0.2	12	2.15	1200
200	G6	45						83.2	200.00 PH8751	40	52	1770	0.2	28	2.05	740
			Qz sid V & vlt				- v. intense qtz + sid. veining	202.39 91.1	202.00 PH8752	38	96	1710	0.4	24	2.00	750
205	G5		"				204.90 A-2-c to A-3 contorted (B-2 like) - original texture is very difficult to determine due to extreme contortion	205.44 98.4 206.05 73.3 206.65 83.6	204.00 PH8753	20	116	1380	0.2	32	3.05	730
		35							206.00 PH8754	17	115	1710	0.2	26	2.60	170

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-60 CLAIM: Jason 153 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: PPM % Pb	PPM % Zn	PPM % Ba	PPM oz/ton Ag	PPM Cu	% Fe_2O_3	PPM Mn
207 m	G5	42					DITTO A-2-c to A-3 (B-2?) - locally evidence of breccia texture, - very silty locally	207.26 68.5 208.18 100.0 208.71	PH8754							
210	G5	52														
		45														
215	G5	71														
220	G5	61														

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-60 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 15 of 16

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
222'	Gy		Py				DITTO (A-2-C or A-3)								
225															
230	Gy														
235							gtz + AGS veining								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-60 CLAIM: Jason 153 PROPERTY: Jaison PAGE No. 16 of 16

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
237m	G5	37					DITTO (A-2-C or A-3)								
		25		gb											
		35													
240		28													
		28					242.32 end of hole.								
245															

ASSAY RESULT:

From 186.32m to 191.57m (5.25m interval)

10.50 % Pb ; 2.03 oz/t. Ag ; 0.019% Cu ; 0.17 % Zn ; 0.027% Ba ; 22.72% Fe ;

Core Recovery = 95.07%

090712

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-61 | CLAIM Jason 57 | PROPERTY JASON | PAGE No. 1 of 14

CORE SIZE HQ | AZIMUTH collar 216° / 198.12m 194° | ELEV. COLLAR 1277.0m | LOGGED BY DR. K.I. 44 & R. SIMPSON

ANGLE of HOLE collar -78 / 198.12m -59° | TOTAL DEPTH 203.30m | NORTHING 7,002,478.90 | DATE BEGUN AUG. 9, 1980 FINISHED AUG. 18, 1980

SECTION | % RECOVERY 91.80 | EASTING 436,545.88 | CORE STORED AT JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | SCALE: | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

DESCRIPTIVE GEOLOGY

SPERRY SUN TESTS

DEPTH	INCLINATION	AZIMUTH
* COLLAR	78.0°	216°
15.24 m	78.0°	214°
* 30.48 m	78.5°	216°
45.72 m	77.0°	209°
* 60.96 m	72.5°	202°
76.20 m	69.0°	206°
* 91.44 m	67.0°	195°
106.64 m	67.0°	202°
* 121.92 m	67.0°	195°
137.16 m	65.0°	195°
* 152.40 m	63.5°	194°
167.64 m	62.0°	198°
* 182.88 m	59.5°	197°
198.12 m	59.0°	194°

* values every 30.48m were used to plot xsection due to inconsistency in Azimuth readings.

OVERBURDEN

10.67

B-1 Fc

FRAG.: ARG 40 + (A-2c MAINLY, 3-5cm Ø common,

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WHITEHORSE
Yukon Territory

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-61 CLAIM: Jason 57 PROPERTY: JASON

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag
	G_{6-1} G_7						B-1 E_c DITTO - MINOR DISTORTED SAND BANDS	91.6%	13.90				
							13.70 B-2-Ec FRAG: $CHERT_{1-3}$ (ONE 2-5 cm ϕ, < 8 mm ϕ matrix) ARG_{40} (≤ 7 cm ϕ, 2-5 cm ϕ common) 14.67						
15	G_6 G_7	31°					B-1 E_c FRAG: ARG_{40+} (3-5 cm ϕ common; 22 cm ACROSS MAX.)	96.5%	17.07				
								97.4%	20.17				
20							21.35 TRANSITION ZONE B-2 E_c MATRIX WITH B-1 E_c FRAG.	100.0%	22.25				
		25°					22.65 B-2 E_c FRAG: ARG_{60-} (max. 16 cm., 3-7 cm common) $CHERT_{5+}$ (mostly less than 1.0 cm.) - LOCALLY B-5-E_c	97.6%	25.36				
25								95.3%	26.82				

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-61 CLAIM: Jason 57 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

B-2 E_c DITTO

97.8 %

29.00

A-3 (LOCAL A-2-c)

29.57

SS-1 c-f + SS-2 c-f LAMINATED, LESS THAN 1 cm THICK, 5-30 vol. % VARIED IN 20 cm INTERVAL

31.00

GRADING FROM B-2 m TO SS-2 c

31.40

grading to B-2-M

98.2 %

B-6-E_c

32.31

MATRIX : B-2-S (CHERT$_{40}$, ARG$_{20}$, <5 mm ϕ COMMON, <MAX. <1 cm.

FRAG. : CHERT$_{20}$ ARG$_{40+}$ (8 cm MAX., 3~5 cm COMMON)

96.8 %

35.46

94.8 %

36.70

B-4-L

MATRIX : PEBBLY MUDSTONE (CHERT$_{7-10}$ ARG$_{15\pm}$ <8mm ϕ)

37.30

FRAG. : ARG$_{30}$ CHERT$_{1-3}$ (5 cm ϕ MAX., 1-2 cm ϕ COMMON)

38.56

B-1-E_c

FRAG. : ARG$_{50+}$ (18 cm ϕ MAX., 3-7 cm. COMMON)

99.0 %

41.08

B-6-L

MATRIX : B-2-S (CHERT ≫ ARG., <0.5 cm ϕ)

41.80

FRAG : ARG$_{50}$ CHERT$_{10}$ > ~4 cm ϕ, 6 cm MAX

41.68

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-61 CLAIM: Jason 57 PROPERTY: JASON PAGE No. 4 of 14

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
		20°					B-2-L FRAG. : CHERT$_{10}$ ARG$_{60}$ (2~4 cm ϕ mostly some <1 cm ϕ, max 5 cm ϕ)	100.0%					
								100.0	43.72 44.20				
							(50 cm) } 44.5 } A-1 45.3 B-4-L LIKE (pebbly mudstone Mtx)						
45							B-6-E$_b$ MATRIX : B-2-S (CHERT$_{20}$ ARG$_{40}$ mostly <0.5 cm ϕ) FRAG : CHERT$_{1-3}$ (1~2 cm ϕ common, 4.5 cm ϕ max) ARG$_{50+}$ (MAX : 0.8 cm. ACROSS, FEW 10-25 cm ϕ, 2-5 cm ϕ common)	100.0%	47.24				
							49.15	100.0%					
50							B-1-E$_b$ FRAG : ARG$_{75-80}$ (A-3 ~ A-2-C common max 35 cm ACROSS)		50.29				
								96.4%					
									53.34				
55								100.0%					
									56.08				

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-61 CLAIM: Jason #7 PROPERTY: JASON

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-1-Ec)								
								100.0%							
									58.53						
								100.0%							
60									60.35						
								98.7 %							
							MINOR SILICIFICATION OCCURRING IN THE ARGILLITE (SMALL SILICEOUS BLEBS PARALLEL TO PLANE OF SLUMPING)		63.40						
65								97.91%							
									66.14						
								98.36%							
									69.19						
70								100.7%							
					35%										

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-61 CLAIM: Jason 57 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

DITTO (B-1-Ec)

72.24

99.02%

75.04

75.29

B-4-L MATRIX$_{30}$: PEBBLY MUDSTONE (SANDY) (<5mm ϕ common CHERT$_{7-10}$ ARG$_{15\pm}$ 1-2 mm)
FRAG$_{70}$: CHERT$_{10}$ (MOSTLY <1cm, MAX 3cm ϕ)
ARG$_{60+}$ (3-5 cm ϕ common, 6 cm max.)

99.7%

76.95

B-1-Ec . FRAG: ARG$_{70}$ (<12 cm, 3-7 cm common)
RARE CHERT FRAG. IN MIDDLE PART

78.18

78.33

99.0%

B-6-Eb

81.38

MATRIX: B-2-S (LOCAL PEBBLY MUDSTONE, ESPECIALLY LOWER PART)

92.5%

FRAG: ARG$_{15+}$ (max 32 cm+, 3-7 cm ϕ common)
B-1-L$_{30}$ (max 1.3m, few 20~60 cm ϕ)
CHERT$_{1+}$ (2-4 cm some, max. 6 cm ϕ)

84.43

84.0%

86.87

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-61 CLAIM: Jason #7 PROPERTY: JASON

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							B-6-E_b DITTO		87.78				
								87.3%					
90									90.53				
							LOWER PART B-3-E_b LIKE, (PEBBLY MUDSTONE-LIKE MATRIX WITH B-1-L BOULDER FRAGMENT	94.7%					
							92.74 — — — — — — — —						
			QTZ VNT				QTZ VEINLETS REMARKABLE DECREASE ↓ B-1-Ec FRAG: ARG 90+ (30 cm ϕ MAX., 3-7 cm. COMMON)		93.57				
								100.0%	94.49				
95								55.89%					
									96.32				
								97.8%	97.23				
								77.7%					
									98.76				
								96.7%	99.67				
100								85.2%					
							101.4 — — — — — — — —						
							101.95 — B-2-L						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-61 CLAIM: Jason #7 PROPERTY: JASON PAGE No. 8 of 14

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED | SAMPLE INTERVAL & NUMBER

ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

SHEAR ?? or FAULT? B-1-E_c DITTO — 98.4% — 102.11 / 102.72

86.3% — 104.55

77.9% — 105.77

86.8% — 106.98

87.4% — 108.81

100.0% — 111.4

112.60 — A-2-a (boulder?)

100.0% — 113.84

113.70 / 114.0 — B-4-m FRAG: CHERT 65-75 ARG 25-35, MATRIX: PEBBLY MUDSTONE

PY FRAG. WITH SIO. VEINLETS — B-1 E_c DITTO (ABOVE)

100.0% — 115.37

115.4 — GRADED SEQUENCE (SS-4)

116.15 — ARG: FRAGMENTS (E_c) GRADE DOWN INTO CHERT + ARGILLITE (m) THEN INTO SAND BANDS AND THEN BACK INTO CHERT + ARG. FRAG 60: ARG 30 CHERT 10 1-4 cm ϕ, AV. 1 cm ϕ SUBROUNDED

100%

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-61 CLAIM: Jason #7 PROPERTY: JASON PAGE No. 9 of 14

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
	G-7 to G-8						B-1-E_c DITTO	100	117.50 117.81						
								91.2%							
120							120.0 — — —

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-61 CLAIM: Jason 57 PROPERTY: JASON PAGE No. 10 of 14

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

132.40 — A-3 DITTO

A-2 : BLACK, CARBONACEOUS SILT BANDED (<5%) ARGILLITE — SAND AND SILT LAMINATIONS MODERATELY TO HIGHLY CONTORTED — 100.0% — 133.20

133.20 — GRADATIONAL CONTACT

G-9, G-7, PY, BLEBS & LAMINATED PYRITE

B-2-S to m : FRAG : ARG_{60-80}
MATRIX : ARG_{20-40} $CHERT_{10-20}$ — 99.8%

135

135.75 — 135.85 — SS-4-m (REVERSE GRADING)
- MEDIUM - FINE GRAINED SILICEOUS SANDS GRADING INTO AND OUT OF COARSER ARGILLITE - CHERT CLASTS
- ARG_{50}, $CHERT_{50}$

G-3, F, GRADING, C

136.84 — 137.00 — 137.30 — 137.60 — SS-4-C — 97.7% — 135.94

- GRADED FROM COARSE TO VERY COARSE GRAINED AT THE BASE
- ARG_{60-65} $CHERT_{30-35}$

FINE, GRADATIONAL CONTACTS

B-6-m, $FRAG_{90}$: ARG_{55} $CHERT_{35}$; $MATRIX_{10}$: ARG_5, $SAND_5$

B-6-E_c, $FRAG_{95}$: ARG_{80} $CHERT_{15}$; $MATRIX_5$: ARG_{2-3}, $CHERT_{1-2}$ — 98.0% — 138.99

COARSE

140

140.20 — B-6-m, $FRAG_{95-100}$: ARG_{30-35} $CHERT_{65-70}$; $MATRIX_{0-5}$ ARG+CHERT — 140.20

FINE

B-2-E_c — 100.0%

$FRAG_{80}$: ARG_{80}
$MATRIX_{20}$: ARG_{10-15}, $CHERT_{5-10}$

GRADING

* THE BRECCIA UNITS ARE A GRADED SEQUENCE — 142.34

B-2-E_c $FRAG_{80}$: ARG_{80} (A-1, A-3)
$MATRIX_{20}$: B-6-m ($CHERT_{40-50}$, ARG_{40-50}, $SS\text{-}2_{0-5}$)

COARSE

143.56 — B-2-E_b — 99.0%

$FRAG_{80-85}$: ARG

145

$MATRIX_{15-20}$: ARG_{95} $CHERT_5$ (S-M, VARIABLE) — 145.39

100.0% — 146.91

GT2 VNT

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-61 CLAIM: Jason #7 PROPERTY: JASON PAGE No. 11 of 14

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: / DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

147.10

B-1-E6

FRAG: ARG 95 (VARIOUS ARG. MOSTLY LARGE FRAGMENT UP TO 2.8 m)

83.7%

148.13

100.0%

149.66

78.3%

151.18

100.0%

152.70

150

QTZ

CHL

SLICKENSIDES

153.80

A-1-a.

90.8%

MAY POSSIBLY BE A LARGE BOULDER

• some contortion.

155

155.75

90.8%

5 cm. SAND BED

157.28

98.4%

159.11

90.5%

159.58 PYRITE NODULE (1.5 cm)

sample B-1

160

160.63

160.63

100.0%

161.24

94.8%

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-61 CLAIM: Jason 57 PROPERTY: JASON

COMMENTS:

DESCRIPTIVE GEOLOGY

DITTO (A-1-a)

167.39 — — — — — — — — —

B-3-E_b

A-3 BOULDER

MATRIX$_{40-50}$: PEBBLY MUDSTONE (LOCAL S.S.)

FRAG$_{50-60}$: ARG (A-3); WITH A MAXIMUM SIZE OF 1.38 m, AVERAGE 3-10 cm.

168.86

171.15 171.30 A-3 FRAGMENT

171.80 — — — — — — — — —

B-1-E_b

MATRIX$_{20}$: ARG

FRAG$_{80}$: ARG (A-2, A-3) MAXIMUM SIZE 1.68 m; AVERAGE SIZE IS 3-10 cm.

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER
	162.46
87.9%	163.37
88.0%	164.29
78.7%	165.51
89.3%	166.73
87.8%	168.86
99.3%	171.30
100.0%	172.21
87.1%	175.56
100.0%	

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-61 CLAIM: Jason #7 PROPERTY: Jason PAGE No. 13 of 14

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag
							B-1-Eb DITTO	81.1%	177.09				
	G-7								178.61				
								47.0%					
180							A-1b BOULDER (25cm.)		180.44				
							180.70 — — — — — — — — — — — —	74.6%					
							A-2-b		181.66				
							A-1a TYPE ROCK	91.2%					
							- MINOR SAND BANDS <5%		183.03				
							- MINOR CONTORTIONS ARE COMMON THROUGHOUT THE UNIT	86.3%					
			PY. Lam.				SEVERAL MINOR PYRITE LAMINATIONS ARE PRESENT - CHLORITE ? ON FRACTURE PLANES		184.71				
185								74.7%					
									185.62				
								76.1%					
									186.54				
								54.9%					
	G-8								187.76				
								87.9%					
							188.67 — — — —		188.67				
							poor recovery highly broken (gauge)	71.3%					
190							189.89 — — — — — — — — — — — —		189.89				
							B-4 — (M-L) (LARGEST CLAST IS 4 cm, AVERAGE 1 cm)	100.0%					
							- ARGILLITE BRECCIA WITH A PEBBLY MUDSTONE MATRIX		191.44				

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-61 CLAIM: Jason 57 PROPERTY: Jason

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

B-4 (m-L) DITTO

MATRIX 25: CHERT 5-10 ARG 90-95

FRAG 75: ARGILLITE

<12 PY FRAG

f8

gouge, rubble

195.07

B-6 m-L

CHERT, ARGILLITE CLASTS IN A SANDY, PEBBLY MUDSTONE MATRIX

196.90

MATRIX: CHERT 15-20 f-m, CHERT 5-10 m-c ARG 70-80 m-

FRAG: ARG 80-85 CHERT 15-20

-LARGEST FRAG. 17 cm (A-3)

1-2 mm PY. BANDS IN FRAG.

B-6-E6

199.64

200.56

Matrix- B-2-M clasts chert 70, Arg 15 (<1.0 cm ϕ)

Fragments- Arg 50+ from max of 90 cm to 10 cm (common)

chert 1-3 max 4.5 cm, 2 cm common

minor chlorite coating (green blue) on fractures

F3

203.30

EOH

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER
72.0%	193.55
81.0%	194.18
73.0%	195.07
97.8%	196.90
75.7%	198.42
74.6%	199.64
72.8%	200.56
21.9%	203.30

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

090712

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-62 | CLAIM Jason 153 | PROPERTY Jason | PAGE No. 1 of 10

CORE SIZE HQ | AZIMUTH Collar 027° / 135.64m 031° | ELEV. COLLAR 1323.8m | LOGGED BY A.R. Hildebrand

ANGLE of HOLE Collar -50° / 135.64m -48° | TOTAL DEPTH 135.64 m | NORTHING 7,004,611.74 | DATE BEGUN Aug 14/80 FINISHED Aug 23/80

SECTION | % RECOVERY* 69.44 | EASTING 433,316.19 | CORE STORED AT Jason Base Camp

COMMENTS:

* Core recovery calculated
from 9.45m to 135.64m = 65.73% (including overburden recovery)
from 18.00m to 135.64m = 69.44%

SCALE:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		

SPERRY SUN TESTS

Depth	Inclination	Azimuth
Collar	50°	027°
30.48	50°	030°
60.96	49°	031°
91.44	48°	033°
135.64	48°	031°

Office of the Supervising Mining Recorder
DEC 9 1980
WHITEHORSE
Yukon Territory

5

Overburden

9.45m

10

Overburden- probably coring boulders - dominant lithologies are SS-1-m,c however some are pyritiferous and one has calcareous cement
- One 45 cm core of C-3-L and one 10 cm core of C-3-M as well as small fgts of

15.0%

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-62 CLAIM: Jason 153 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag
							Overburden (cont'd.)						
							similar conglomerate lithologies are present. These conglomerate boulders probably represent Unit 2 lithologies and may have been frost heaved from nearby.	35.9%					
15								10.5%					
								10.8%					
		39°					18.00 — A-3 (A-2-type rock) – sequence of cross laminated sand lenses and bands in finely laminated argillite	90.0%					
		41°					– sand beds range from 1 to 190 mm thick but are usually 5-30 mm thick	79.4%					
20		36°					– sand beds are fine to medium grained						
		41°					– crossbedding, load casts, and poorly developed grading indicates younging uphole	91.6%					
		↑					– sporadic hairline quartz veining occurs throughout						
							– weathering effects (rusty coatings on fracture surfaces) are notable to approximately 24 meters						
							18.00 – 30.50 – 10-20% sand beds						
	G6	40°					– poorly developed stylolites occur in the intervals of contorted bedding						
25		40°	Qtz				– qtz-sid + qtz-sid-py veins in lower third of unit w/ qtz + qtz-py veins in upper two thirds of unit						
							— — — 25.71						
							– strongly sheared dark arg w/ very minor sand						
							— — — 26.52						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-62 CLAIM: Jason 153 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
		56°					Ditto (A-3-A-2 type rock) - shear planes and slickenslides are poorly to well developed throughout the unit - pyrite occurs throughout the unit primarily as 1-2 mm cubes in the sand bands w/ minor amounts in the argillite and qtz/sid veins								
30		49°					30.50 – 35.30 – 60% sand beds – thick (7-30 cm) well to weakly laminated sand beds are common in this interval								
		50°					31.00 - 5 cm qtz vein w/ some associated chloritization or clay mineral alteration of contained arg fgts								
	G6	49°													
		55°													
		44°													
35		57°	Qtz				34.65 - network of up to 5 cm wide qtz veins w/ associated minor silicification 35.05 35.30 – 43.20 – sand beds (1-60 mm thick) constitute 5-60% of the rock								
		50°													
		49°													
	G6	37°													
		48°	Qtz												
40			Qtz Py				40.65 - stockwork of qtz veins up to 4 cm wide								
							41.65								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-62 CLAIM: Jason 153 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
		45°			Δ		Ditto (A-3 - A-2 type rock)								
		52°					43.20 - 58.00 - sand beds (1-30 mm thick) constitute 10-40% of the rock								
		49°	Qtz		Δ										
45		50°			Δ										
		52°	Sp.		Δ		46.00 - several 3-4 mm sphalerite fgts occur in a sand bed								
		42°			Δ										
		47°	Qtz				48.00 - bedding is contorted								
					Δ		48.60 - bedding is contorted								
		46°			Δ Δ										
50	G7	48°													
					Δ		50.80 - 56.70 - bedding is generally contorted								
					Δ										
		52°													
					Δ										
					Δ										
55			Qtz		Δ		55.5 - qtz vein								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-62 CLAIM: Jason 153 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS
							Ditto (A-3-A-2 type rock)			
		45°					— 57.7 - qtz vein			
		53°					— — — 58.00-62.00 - sand beds (1-50 mm thick) constitute 20-60% of the rock			
			Qtz				— 58.70 - 64.0 - bedding is contorted			
60	G6									
		51°								
							— — — 62.00-71.0 - sand beds (1-30 mm thick) constitute 10-30% of the rock			
			Qtz				— 62.6 - network of qtz veins <1cm width			
		55°					— 64.0			
65										
	G6	59°								
		65°		S			— 67.10 - arg is strongly sheared and dark in colour			
							— 68.90			
70			Qtz sid				— 70.60 - qtz, sid veining		70.1 m	ppm Pb / % Zn / % Ba / oz/ton Ag / ppm Cu / ppm Fe / ppm Mn
		51°					— — — 71.00-76.15 - sand beds constitute 5-15% of the rock		PH8716	10 / 216 / 1590 / 0.2 / 148 / 3.20 / 305
							— 71.50 - 72.00 - contorted bedding		72.0 m	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-62 | CLAIM: Jason 153 | PROPERTY: Jason | PAGE No. 6 of 10

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

Ditto (A-3-A-2 type rock)

72.95
- contorted bedding

73.95
- the contact is gradational with the following unit and the quantity of sandy beds and their thickness decreases towards it

75.20 - qtz, sid veining

76.15

A-1 + A-2 - lower half of interval is dominantly finely laminated argillite varying to dominantly almost massive argillite in the upper half of interval - all lithologies have gradational contacts

78.00 - v. minor sp w/qtz-sid vein
- very minor silt and v.f. grained sand beds (1-20 mm thick) are present increasing in number towards the bottom of the interval
- thin (1-10mm) qtz-sid - minor pyrite - rare sphalerite veins occur throughout the interval
- the entire unit is partially silicified
- poorly to well developed shear planes and slickenslides occur throughout the interval becoming more common towards the base
- pyrite occurs as diss. f. grains in the argillite and in the qtz-sid veins

85.85 — Massive coarse pyrite w/minor coarse galena - quartz - sphalerite
86.07 — B-4-M-Mtx; poorly sorted pebbly sandstone - the sand grains range from silt to coarse sand ϕ - clasts range up to 4mm

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm Ag	ppm Cu	ppm Fe	ppm Mn
	72.0m PH8717	18	120	1350	0.2	28	2.85	470
	74.0m PH8718	40	189	1190	0.2	149	2.40	1580
	76.0m PH8719	100	540	850	0.4	300	2.35	2225
	78.0m PH8720	31	490	660	0.2	56	3.20	2500
92.4%	80.0m PH8721	136	210	1000	0.5	240	1.90	490
49.1%	82.0m							
76.6%	PH8722	83	117	1010	0.5	193	2.35	710
51.2%	83.85	%	%	%	oz/ton	%	%	
45.87%	AH-8565 (1m) 84.85	0.02	0.02	0.12	0.07	0.01	5.90	
39.56%	AH-8566 (1m) 85.85	2.90	0.14	0.07	0.64	0.02	7.00	
100.00%	86.07 AH-8567 (22m)	4.85	6.90	0.12	1.84	0.02	27.10	
58.3%	AH-8568 (1m) 87.07	4.50	1.16	0.05	0.95	0.01	4.58	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-62 | CLAIM: Jason 153 | PROPERTY: Jason | PAGE No. 7 of 10

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

- mostly cht w/ minor argillite
Ftg: $Cht_{(33)}$ $Arg_{(7)}$ ($_{40}$ 4-15 mm ϕ range, generally angular to subangular)
- 88.35
- several 2-3 cm fgts(?) of siderite occur
- generally coarse grained fragments and stringers of galena, sphalerite, and pyrite occur in the breccia mtx
- veins + veinlets of qtz + calcite occur throughout the interval
- sid fgts(?) sporadically constitute a significant portion of the matrix
- the rock is partially to wholly silicified

90.42

Fault Breccia - c. grained fault breccia composed of ~90% B-4-L fgts & ~10% arg fgts - the rock has sheared appearance in places - minor f. grained galena, sphalerite, pyrite mineralization occurs sporadically throughout
- the unit is occasionally strongly calcareous
- 91.28-91.44 - a fgt? of fault bx possibly caught up in this bx w/ 40% 2-5 cm angular fgts of py, gn, sp massive sulfide lithologies - mtx is strongly calcareous

91.28-91.44 gn, sp, py fault bx

92.22

Fault Breccia - finely sheared argillic fault breccia
- 1-2% pyrite fgts scattered throughout
- the rock is very friable and core recovery is very poor at the bottom of the interval so the contact with the following argillites cannot be defined

96.01

- no core recovered

97.54 ? ? ? ? ?

A-2 w/ minor A-2-a, A-2-b and Siltstones
- the unit contains abundant hairline to 5 cm qtz-sid veins w/ minor gn, py from 105-135.64 m w/ a lesser amount at the top of the interval
- 97.54-106.68 - rock is relatively massive w/ only poorly developed laminations
- poorly to moderately well developed shear planes and slickenslides occur throughout the unit w/ local strongly sheared areas

100.58

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
		% Pb	% Zn	% Ba	oz/ton Ag	% Cu	% Fe	
39.5%	AH-8569 88.07 (1 m)	4.20	2.35	0.09	0.83	0.01	3.80	
43.75%	AH-8570 89.07 (1 m)	4.13	2.16	0.07	0.65	0.02	12.15	
45.84%	AH-8571 90.07 (1 m)	1.16	0.92	0.04	0.36	0.02	10.30	
46.32%	90.42 AH-8572 (35 cm)	0.84	1.02	0.05	0.15	0.01	4.73	
46.32%	AH-8573 91.28 (.86 m)	1.59	0.54	0.03	0.25	0.01	6.10	
120.00%	91.44 AH-8574 (16 cm)	8.00	5.25	0.09	1.95	0.02	18.20	
48.03%	AH-8575 92.22 (.78 m)	2.70	1.05	0.03	0.53	0.01	16.60	
43.70%	AH-8576 93.22 (1 m)	0.20	0.07	0.09	0.14	0.01	6.63	
30.05%	AH-8577 96.01 (2.79 m)	0.04	0.04	0.11	0.07	0.01	10.25	
0.0%								
16.12%	97.54 AH-8578 100.58 (3.04 m)	0.02	0.20	0.04	0.02	<0.01	7.90	
		ppm Pb	ppm Zn	ppm Ba	ppm Ag	ppm Cu	ppm Fe	ppm Mn
32.0%	PH-8592	195	1950	310	0.6	134		5250

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-62 CLAIM: Jason 153 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm Ag	ppm Cu	ppm Fe	ppm Mn
				f10			COMMENTS:		102.0m							
							Ditto (A-2 w/minor A-2-a, A-2-b + Siltstones)	64.8%	PH-8593	398	585	630	0.9	630		1250
							-pyrite occurs as v. f. grains disseminated in the argillite but primarily occurs as grains, blebs and crystals in the siltstone and sandstone beds - a minor amount also occurs in the qtz-sid veins	36.7%								
	G6	49°					-bedding is frequently contorted with poorly developed stylolites throughout	68.9%	104.0m							
105		54°	Qtz sid					60.9%	PH-8594	156	1540	380	0.3	2180		3600
		53°						75.7%	106.0m							
				f4			106.68-109.80 - strongly veined and sporadically intensely sideritized silty argillite		PH-8595	162	510	370	0.4	605		4400
	G6							82.2%	108.0m							
			Qtz sid						PH-8596	222	120	320	0.4	160		6800
									110.0m							
110							109.80-124.0 - silty laminated argillite w/minor v. f. gr. sand beds w/euhedral pyrite cubes		PH-8597	570	780	400	1.6	310		1800
		46°							112.0m							
									PH-8598	263	70	470	1.0	123		1550
	G6								114.0m							
115			Qtz sid						PH-8599	26	30	450	0.4	82		3000
									116.0m							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-62 CLAIM: Jason 153 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm Ag	ppm Cu	ppm Fe	ppm Mn
							COMMENTS:	117.04								
		58°	Qtz sid py cal				Ditto (A-2 w/minor A-2-a, A-2-b & Siltstones)	96.1% 118.57	PH-8600 118.0m	24	38	400	0.3	73		3700
		65°						81.6% 120.09	PH8601 120.0m	86	32	440	0.8	64		1940
120	G6	63°						50.3% 121.62	PH8602 122.0m	80	48	410	0.7	88		2600
		57°						77.0% 123.14	PH8603	44	37	1380	0.2	10		1460
			Py	F8				59.3% 124.65	124.0m							
		54°					124.0-130.5 - faintly laminated dark argillite	94.6% 124.97	PH8604	141	18	870	1.1	54		510
125		44°						78.3% 126.49	126.0m							
		46°						37.3% 128.02	PH8605 128.0	310	36	800	1.0	32		900
	G7							93.4% 129.50	PH8606	20,000	110	760	18	58		1760
		51°	Sid qtz py				129.30 - gn stringers in qtz-sid-py vein (1cm thick)	% 100.0 131.06	130.0 PH8607	405	100	1070	1.0	88		1200
130		56°	Gn					91.5%	132.0							
		53°					130.5-132.0 - faintly laminated contorted argillic and siltly f.gr. ss.									

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-62 CLAIM: Jason 153 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm Ag	ppm Cu	ppm Fe	ppm Mn
									132.0							
	G8	64°			Δ		Ditto (A-2 w/ minor A-2-a, A-2-b + Siltstone)	132.5								
		61°			Δ		-132.0-135.64- faintly laminated argillite w/ thin (<30 mm) silt and f.gr. ss. beds	73.0%	PH8608	171	124	840	0.7	134		3000
		56°			Δ			134.11	134.0							
135		57°	Sid qtz py		Δ			88.9%	PH8609	122	65	1300	0.6	125		660
					Δ		135.64 End of Hole	135.64	135.64							
140																
145																

090712

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM Jason 57 PROPERTY Jason (OJV) PAGE No. 1 of 39

CORE SIZE HQ from 0 to 213.97m; NQ from 213.97 to 591.62m AZIMUTH 0 - 183° 591.62 - 31°

ANGLE of HOLE 0 - 72.5° 591.62 - 31° TOTAL DEPTH 591.62 m ELEV. COLLAR 1295.4 m LOGGED BY G. Bishop

SECTION ... % RECOVERY 85.85 NORTHING 7002,615.61 DATE BEGUN Aug 30/80 FINISHED Sept 14, 1980

EASTING 436,468.31 CORE STORED AT Jason

COMMENTS:

- overburden to 4.57m
- hole tricored to 18.90
- *** - correlation diagram for 80-63, 80-63A, + 80-63B, at back of this log.

SCALE: 1cm to 1m

DESCRIPTIVE GEOLOGY

Depth(m)	Dip	Az	Depth(m)	Dip	Az	Depth(m)	Dip	Az
0.0	72.5	183	213.4	58	174	457.2	37	176
2.4	72	183	243.8	55	175	487.7	35	176
30.5	72	183	274.3	53	176	518.2	34 *	176 †
61.0	71	182	304.8	51	177	548.6	32 *	177 †
91.4	69	180	335.3	49	177	579.1	31 *	177 †
121.9	63	175	365.8	47	179	591.6	31 *	176 †
152.4	62	175	396.2	45	179			
182.9	60	175	426.7	42	178			

0 SECTION — 15 — 20

COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

overburden — 4.57

tri-cored no-core — 18.90

A-2-C & A_3

- core all fractured, in some fgts see good crossbedding

G5 15 f_3 S_3

★ Data from gyrocompass except where noted
* fro. sperry sun tests
† inferred from lightlog

- Hole wedged at ① 251.77 m
② 359.97 m
③ 398.07 m

% CORE RECOVERED: 28

SAMPLE INTERVAL & NUMBER

ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Office of the Supervising Mining Recorder
DEC 9 1980
WHITEHORSE
Yukon Territory

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV).

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Ditto (A-2-C)

13

25

26.5

$B\text{-}1_{EC}$

30

$fgtr_{85}$ - 99% org (<1% chert)
- from 2 to 20cm

- occasional fractures filled with gypsum.
- staining indicates surficial weathering has penetrated beyond

53

due to poor recovery and the fractured nature of the core this section may represent a fault zone, perhaps fault going sub parallel to core axis.

50

59

71

34.0

$B\text{-}5_{Eb}$

64

mtx_{55} - B-2 - fgt_{90} - org 54 chert 36 (from 1cm to 4cm common) 1cm

$fgtr_{45}$ A-1 from 4cm to 3m.

Sp
G-2
S-C

d.
py

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jasson 57 PROPERTY: Jasson PAGE No. 3 of 39

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
	s/p						Ditto (B-5 Eb) -rock becoming much softer and mixed up, still evidence of penetration of surface weathering.	71							
40				F6			highly fractured, contains 3% of soft white soapy mineral - (gypsum?) associated with faulting, certainly it is secondary.	31							
	G5	0-5	Py				large A2-b fragment, highly cut through by qtz, laminae are contorted and exhibit local shearing from 40.5 to 42.86. (bedding sub parallel to core axis. •kniest zone from 40.54 to 43.51	38							
							still B-5 - mtx50 (B2) - fgts50 A2	62							
45								80							
								74							
				qtz				99							
	s/p						48.3 B-2-L fgts80 - chert60 - arg20 } 3-5cm common max. of 10cm some <.5cm	79							
50							50.2 B-1-Eb •< 5% silt •exhibits minor slip faults and shears	97							
	G5		d.py												

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-63 CLAIM: Jason 57 PROPERTY: Jason PAGE No. 4 of 39

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Ditto ($B\text{-}1_{Eb}$)

- large (>50cm) $A_{2\text{-}c}$ fgts.
- laminations subparallel to core axis

72

100

54.7

$B\text{-}1_{L}$

86

fgts - A-2 from .5 to 3cm

- fgt laminations ≈ 30° to core axis.

87

58.5

$B\text{-}5_{Eb}$

98

mtx_{50} $B\text{-}2_{L}$ - fgts - $chert_{10\text{-}50}$ - $arg_{50\text{-}6}$ from 2mm to 6cm commonly 1-3cm

99

fgts - $A\text{-}2_{90}$ - $A\text{-}1_{10}$ } 10-140 cm

- 1 fgt (maybe mtx) pebbly mudstone
- d. py throughout mtx; and concentrated py in chert fgts.

86

99

60

65

d. py

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jasson 57 PROPERTY: PAGE No. 5 of 39

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							COMMENTS:								
							Ditto (B-5$_{Eb}$)								
	57	40°	d.py				large arg. fgts more carbonaceous.	84							
							69.2								
70			d. sp py				B-4-S ~ E$_c$ (local ss-2$_{c-m}$)								
		20°	QV				mtx - ss-1$_{c-m}$ mainly								
	5/7						fgts - chert$_{40-60}$; max. 6cm, commonly .3 to 2 cm.	99							
			QV				- arg$_{15-30}$ - max. - 10cm, commonly .3 to 3cm.								
	6/3		d py				• several units, composition & size varies, local grading visible.	81							
	6/6						• about 10cm of ss-2$_{c-m}$ at 69.78 m								
							• 2 fractures qtz filled, most of these coated with soft, grey, f.g. clay (chlorite?)								
							• d. py ≤ 1%	91							
75							• upper + lower contacts sharp but irregular.								
					P.D		75.2								
							B-2$_{EC}$	70							
							fgts$_{90}$ - chert$_{45}$ } 36% from .3 to 2cm - arg$_{55}$ } 54% from 2 to 8cm								
							• d. py throughout; + clustered in some chert fgts.	91							
80															
							80.6	75							
							A-2b (local A$_{2-c}$)								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jasson 57 PROPERTY: Jasson PAGE No. 6 of 39

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
	G3	80/	d. py				Ditte (A-2b) - minor slip planes visible, displacement in a matter of 1 or 2 cm or less.	98							
								74							
							84.2 B-1 m fgts 90 - 99% are org - from 2mm to 7cm average 1.5cm - 1% rounded chert fgts. < 1cm dia. - org is 70% A-1 type 30% A-2 type 85.0								
85							A2-a • minor d. py pods << 1% • occasional fracture coated with white soapy clay(?) • laminations experience minor slipping, displacement < 2cm.	100							
	G5	80/	d. py					82							
							89.4 B-1 L - fgts 70 - from < 1cm to 6cm average 4-5cm. are 100% org. of A-2 a type. - section gives impression of bed of A2 rock which has become contorted - and fractured fgts having moved < 1m from original deposition. 91.00	93							
90	G4		d. py				A2-b • from 91.00 to 97.5 unit is very uniform with only occasional laminae with much contortion. • from 97.5 to 99.97 unit suffers from numerous small scale slip planes, making laminations appear discontinuous, but displacement is rarely greater than 2cm	90							
		20°/													
95		25°/						83							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No: DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							97.5 Ditto (A_2b.) • from 99.97 - minor A_2c	98							
100	65	20/ 15/			20			87							
								85							
105							104.6 — 106.5 B-1? (or contorted A_2b, slip planes parallel to cleavage) A_2-b (local A_2-c)	97							
			d. py sp				106.9 • from 106.99 downhole rock increasingly contorted, frequent slip planes. • silicified silty beds contain ∆1% d. sp + py.	98							
110		30/						65							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jasson 57 PROPERTY: Jasson PAGE No. 8 of 39

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
	G_5	20° /	d. py	F_4			Ditto (A_{2-b}) • fractures lined with white clay + d. py. • minor fragments (up to 1 cm ⌀) of arg. from very local source	98					
115								106					
								85					
							117.4						
							118.4 } B-2$_L$ fgts: chert$_{1-3}$ arg$_8$ • max 6cm commonly 2-4cm B-6$_{Eb}$ general description next page	87					
120							B-3$_{Eb}$ (like) mtx$_{60}$ - pebbly mudstone, fgts$_{20}$ - arg$_{10}$ (1-6cm) - chert$_{10}$ (1-4cm) - w̄ d. py fgts$_{40}$ - A-1$_{20}$ (<50cm) - A-2b$_{55}$ (<40cm) - A-2-c$_{25}$ (<60cm)	86					
								77					
							123.3						
	S/P						Gouge • unconsolidated breccia, uppermost 1.5m has silica cement, sporadic qtz throughout section • main component - fgts A_1 - A_2 • upper + lower contacts are sharp	≈86					
125	G_7			F_9					129.69				
131	G_7			F_8				29					

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 9 of 39

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
	G_7 G_8		d. py	F_9 S_9			Ditto (B-6$_{Eb}$) General Description (117.4 to 188.7) mtx$_{45}$ - B-4$_L$ - mtx$_{70-80}$ - pebbly mudstone - chert$_5$, arg$_5$ up to 3mm ϕ	56					
135							gouge • shearing, slickenslides						
							- fgts$_{2030}$ - chert$_3$ 1cm common 2cm max - arg$_{15-20}$ 1cm common 2.5cm max						
							136.3	98					
							- ss$_3$ 1cm common 2cm max - breccia$_{1-3}$ 1-2cm ϕ	36					
							B_4						
							A_{2-b} (boulder?) fgts$_{55}$ - Arg$_{50-55}$ - from 4cm to 3m	46					
							B-4 - B-4$_{S-L}$ 2% - max 28 ϕ	55					
140							- ss ±1% - max 18 cm - some fgts pyritized	93					
	G_5						A_{2-b} (boulder?) - chert$_{<1\%}$ - max 6 cm.	72					
							SS-1 A_{2-b} (boulder?) B4	67					
								84					
							A_3 (boulder?)	66					
145								62					
							146.3 A-3 (boulder?)	65					

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 10 of 39

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-6$_{Eb}$)								
	G3							88							
	G6	20/			△		ditto A-3 (boulder) • sandy/silty fraction is > 20% of rock	85							
150		↑			△		150.2 — sharp contact	99							
								92							
								95							
155								79							
			d. py		△			88							
160								71							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 11 of 39

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-6$_{ED}$)	95							
165	G5		d. py					89							
							mtx$_{25}$	66							
							fgts$_{75}$	78							
								85							
170							• d. py restricted mostly to matrix, often "replacing" part of cherty fragments	82							
	G5	d. py					172.5	29							
								89							
175							B-4 fgts absent	93							
								96							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV)

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

Ditto ($B\text{-}6_{Eb}$)

182.2

$B\text{-}5_{Eb}$ (like)
fgts from 4-40cm

188.7

$B\text{-}1_L$ (boulder?)
fgts .3 to 7cm

189.8

$B\text{-}6_{EC}$

mtx - B - Hm - mtx - pebbly mudstone
35 75
- fgts - chert + arg from .3 to 1.5cm
25

fgts - arg_{65} (up to 7cm)
65
- $chert_{20}$ from 2-4 cm
- $siltstone_8$ (up to 6cm)
- SST_7 (up to 9cm)

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
93							
93							
41							
59							
94							
91							
82							
80							
105							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJU) PAGE No. 13 of 39

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Ditto ($B\text{-}6_{EC}$) — 42

93

194.5

$B\text{-}5_{Eb}$

mtx_{15} ; B-1 - fgts A-1, A-2 } from .3 to 3cm
<10% silty

81

$fgts_{85}$: A-1, A-2, A-2b, up to 175cm.

105

198.8

$B\text{-}5_{EC}$

mtx_{70} - B-2, (occasionally pebbly mudstone)

$fgts_{50}$ - arg 40, -chert 10 } • 2 to 2 cm ϕ some chert fgts pyritized

$fgts_{30}$ A1 + A2 up to 25cm

• similar to 182.4 to 188.6

85

202.3

$B\text{-}5_{EC}$

mtx_{25} B-1 - fgts A1 + A2 commonly 1 cm ϕ

$fgts_{75}$ - $A2_{65}$, $A1_{10}$ } from 2-20 cm ϕ commonly 10-15 ϕ

97

• minor slip planes within fgts, max. displacement 3 cm.

93

206.7

A-2 (local A2-c)

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 67 PROPERTY: Jason (OJV)

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
	G4	30/	d. py				Ditto (A_2 with minor A_{2-c}).								
							• rock is only faintly finely laminated accentuated by occasional silty laminations with cross ripples	107							
210							• rock is cut randomly by pyritic veinlets (1-3 mm thick), some are associated with fracture planes.								
							occasional local disruptions to laminations caused by isolated pebble (2cm dia, well rounded) or minor (< 5cm) B_1 debris flows. - it is felt the B_1's are local minor features occuring during A_2 sedimentation.	79							
							• some fractures coated with blue green medium hard film.	90							
							• slip planes more common than in previous unit	85							
215							• lower contact between A_2 + A_{2-b} is gradational over 20cm	63							
							216.3	61							
							A_{2-b} (with minor A_{2-c})								
	G4	30°			Δ Δ		• this unit, as with the above unit contains minor areas of local semi-insitu breccias & areas where laminations show considerable contortion, but are still traceable.	93							
220								89							
								89							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 15 of 39

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (A-2b)	60					
							223.9 / 224.7 } consistent bedding to core axis angles, but unit is disturbed, contains numberous A-2b fgts.						
225	G5						B-6EC	97					
							15cm gouge; mtx: 60 B-2L (locally B-4L like + pebbly mudstone)						
							fgts: 45 chert 50, arg 50 } from .2 to 1.5cm	96					
	S/P						fgts: 40 A-2b 35 - silty portions maybe calcareous. - from 1.5cm to 18cm -	100					
230			d. py				• fgts are elongate and exhibit poor foliation (≈ 35-40° to core axis)						
		30-40					: chert 3 - from 1.5 to 11cm ϕ - well rounded.	98					
							: B-4s 2 - mtx - ss-1 (silicious cement)						
235							• fractures coated with blue/green film. - fgts - chert 70, arg 30 } from .2 to .6cm	90					
							236.0 } pebbly mudstone like mtx. - max size 18cm.						

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 16 of 39

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
	S/P						Ditto (B-6 EC)								
							238.8 — contact based jgt size + gradational change in mtx	94							
240	G5	0-5°					large A-2-b fgt. B-6 Eb								
							mtx. 36 B-2 m (local B-4 L, minor local pebbly mudstone)	104							
							fgts - chert 80, arg 15, SS-1 + B-4s 5 } up to 2cm								
			d. py				B-4 m like mtx. fgts. 64 A-2-b 55 - up to 2.5m, laminations may be subparallel to core axis.	89							
	S/P						- silty fractions may be slightly calcareous.								
245							B-4 L 3 - mtx 40 - SS-1 c-c, silicified. fgts 60 - chert 40, arg 20 } up to 1.5cm - most fgts rounded to well rounded	90							
							246.5								
	G5						pebbly mudstone like mtx. - max 30cm B-4 L 5 - mtx 20 - SS-1 silicified fgts 80 chert 40, arg 40 } up to 2.0cm. [possible unit 2 fgt.]	100							
250							250.2 - up to 1.2m.	94							
	S/P		d. py				B-4 m <1 - mtx 75 - SS-1 m-c fgt <25 - chert 22, arg 3 } max. 2cm commonly <1cm								
							251.77								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 17 of 39

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							Wedged no core 254.7	wedged no recovery							
							Ditto ($B\text{-}6_{Eb}$) fgt_s (cont) - $chert_{<1}$ from 2 to 7cm. commonly 4cm.	91							
255								89							
							1.5cm gouge 260.6 $B\text{-}4_L$ (possible unit 2 fgt) 262.0 *** fault + B-4 fgt correlate to DDH-80-63A 260 to 262 contact correlates to DDH-80-63A at 262.7	83 64							
260							$B\text{-}3_{Eb}$ mtx-pebbly mudstone (local 15-20 B-1) $fcgt_{s<25}$ - $arg_{<89}$ - $chert_{10}$ - $ss\text{-}1_{<1}$ - $B\text{-}4s_{<<1}$ max. 3cm commonly 1 cm.	84 95 98							
265															

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV)

COMMENTS: Scale 1cm = 1m.

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto ($B-3_{Eb}$) fgrs-arg-2 size populations. i) 2-10cm, commonly 4cm ii) >10cm up to 7.8m.	71							
270	G4							91							
							fractures coated with blue/green film and euhedral py.	99							
								52							
								97							
								76							
275							*** this $B-3_{Eb}$ unit correlates with similar units in DDH-80-63A - 262.7 to 322.7 63B - 269.2 to 321.7	67							
								95							
								73							
280							70% mtx 30% arg fgts largest 31cm commonly 7-15cm.	90							
								64							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 19 of 39

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Ditto (B-3$_{Eb}$)

ss-lf-c - 18 cm ∅

284.3

98

285

5

97

large (7.8m) fgt of A-3, gently contorted laminations sub-parallel to core axis.

*** correlates to similar fgt in
DDH-80-63A - 286.5 to 293.8
63B - 285.3 to 291.3
as does the fault at the downhole contact of fgt.

290

99

292.5
} fault gouge 5cm thick

- from 292.5 on - mtx makes up 60% of rock (pebbly mudstone) and org fragments range from 2cm to 50cm, with an average size of 20cm.

88

295

Py

102

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 20 of 39

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto ($B-3_{Eb}$).								
300			d. py				• sporadically a small (1-5cm) silty or cherty fragment has been partially or completely replaced with massive py.	92							
							• from 292.5 m to 309 m rock is a kaotic jumble of A_{2-b} (A-3) fgts and pebbley mudstone matrix	97							
305								99							
								93							
310							• from 309 on, 50% of fragments are A-1, the remainder are A_2 type	97							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 21 of 39

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (B-3 Eb)						
	G4		Py					98					
315								84					
							315.5						
	S/P		Py				B-6 Eb						
							mtx: B-2 L (locally like pebbly mudstone) 35	92					
							fgts: chert 40-75 15-30 } up to 2cm, 1 arg 25-45 } commonly 1cm	97					
320							fgts: A-1 10 - max 1.6m commonly < 20cm 65						
							: B-6 EC 13 (only 1 fgt, 2.5m) mtx: varies from SS-1 f-c to SS-2 f-c (some grading visable) to B-4 L with chert and arg up to 2.5cm. 70	101					
							fgts: chert - up to 5cm A-1 - max. 20cm. 30						
325							: A-2 40 - 2cm to 1.3m - silty portions calcareous	90					
			Py				: B-4 m 2 mtx: SS-1 f-m fgts: chert arg } max 2.5cm commonly < 1cm						

CORDILLERAN ENGINEERING · LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV)

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Ditto (B-6 Eb)

328.2 — carbonaceous A-1 fgt

25 cm fault gouge — SS-2 → BH fgt.

*** fgt found in DDH-80-03A - at 335.0
63B - at 333.3

330.7

*** this B-6 Eb unit correlates with a similar unit found in DDH-80-63A - 322.9 to 345.0
63B - 321.7 to 343.2

332.8

carbonaceous A-1 fgt — *** fgt found in DDH-80-63A: 337.4 to 340.0
63B: 335.2 to 337.0

334.4

336.2

A-2 fgt

337.5

mostly large (>20cm) A-2 fgts.

24cm fgt of B-4m

*** fault found in DDH-80-63A-at 345.0
63B at 343.2

341.2

5cm gouge

341.4

B-3 Eb

% CORE RECOVERED
72
100
98
77
100
99
101
93

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 23 of 39

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (B-3 Eb)						
							mtx$_5$: pebbly mudstone fgts - chert + arg < 1cm	97					
	G5		PY					80					
345							A-2 (local A-3) fgt, laminations 0-10° to core axis	76					
							• silty fractions of A-2 rock calcareous.	102					
							348.0						
							• most fractures coated with blue/green film.	72					
							*** likely that this B-3 unit correlates to similar unit in DDH-80-63A - 345.0 to 368.3 63B - 343.0 to 364.4	82					
350			PY	F5			pyritic fractures. 4cm gouge	47					
								56					
							← 4cm gouge	65					
				F5 qtz sil vt				107					
355													
							356.1						
							357.0 } A-2 fgt laminations 45° to core axis						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 24 of 39

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							357.1 B-3Eb indistict contact.								
							B-6Eb mtx: B-2mL grades (?) at both ends of the section into pebbly mudstone	95							
			Py				fgts: chert, arg, SS-1, Silt, B-4s } max of 3cm	114							
360							359.9								
							wedged	wedged							
							no core	no recovery							
							362.1								
							fgts: chert <4 - max 6cm. · B-4L 7 - fgts 1.2m, 40cm, 50cm - mtx: SS-1 f-m - fgt: chert 95, arg } max 3cm commonly <1cm · fgts characteristically round or oval · alignment of fgts ≈ 30° to core axis								
365							- B-4L 4 max 47cm commonly <15cm mtx: SS-1 f-c. fgts: chert 40, 45, arg 5 } max 3cm	87							
							- B-4S 4 - max 10cm mtx: SS-1 f-c fgts 10-20: chert, arg } 1.5cm	113							
					0°		368.0								
							- SS-2f → SS-1c → B-4s → B-4L · makes up 7% of rock in 1 section 2.8m long. · maybe all one fgt, exhibits good bedding indicating younging downhole, sequence includes fgts of arg (10 cm max) B-4s (6.5 cm max) chert (2cm max) · laminations 62-65° to C.A	76							
							sequence of SS-2f → SS-1c → B-4s → B-4L possibly a large fgt.								
370	G3														
			a. Py				370.0	97							
							371.2								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jasson 57 PROPERTY: Jasson

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (B-6 Eb)						
							A-2 fgt	89					
375			py				374.9 — } SS-2 f → SS-1 c → B-4 s → B-4 L						
	s/p						375.5 —	66					
								89					
							3cm gouge	104					
380				F6			380.3						
							B-4 L rounded fgts.	99					
			py				382.9 —						
385								85					
							mostly arg < 10% B-4 and chert fgts	88					

fgts (con't): A-2 + A-2b 43 max 2.8 m commonly > 10 cm

- silt + SS-1 fgt likely come from A-2c or A-3 type rock.
- many fractures in arg fgt coated with blue/green film

*** unit correlates with that found in DDH-80-63B 364.4 to 402.5

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jasson 57 PROPERTY: Jasson

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Ditto (B-6 Eb)

mostly arg
<10% B-4 and chert fgts.

390.0
B-4 fragment
390.15

• mtx throughout whole unit fairly constant.

390

395

fragments mostly arg up to .3 m.
<1% B-4 and chert.

398.07
Wedged.
No core
399.50
B-4 fgt (12cm)
400.00

400

gradational change possibly still same unit

B-3 Eb (local B-5)

% CORE RECOVERED
70
96
91
97
wedge no recovery
93

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jasson 57 PROPERTY: Jasson

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
405	GY		Py				Ditto B-3 Eb (local B-5)								
							402.2 – 402.5 SS-2								
							2cm gouge								
							MTX = pebbly mudstone, locally varying to B-2	71							
							- fgts - <1% chert <25% from .3 to 2cm average, .5cm								
							- B4s - 2 1 to 3cm <1%	99							
							407.1								
							A-2b fgt.								
							fgts: org - from 2cm to 1.9m 85 some fragment are just silt portion of A2-b - exhibit grading and crossbedding.								
							409.4	89							
410								99							
								92							
415															
							416.2	90							
							B-6 Eb								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jasson 57 PROPERTY: Jasson

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (B-6 Eb)						
							mtx: B-2: though it in some places is a pebbly mudstone 30?	100					
							: fgts 75 - chert 60 from .3 to 2 cm						
420							- B-4 10 from .3 to 2 cm						
							- arg 30 from .3 to 2 cm						
	S/p						fgts: C-1 m,r 75 70? - from 4 cm to 2.3 m						
							- fgts - those > 2 cm 90% are rounded - 95% are chert 5% arg - those < 2 cm 50% are rounded						
	G3 + G5		py				- mtx - silica or qtz + siderite.	95					
							- fgts up to 5 cm						
425							: arg 15 - A1 or A2 type - may be heavily cut by qtz/siderite veining from 2 cm to 30 cm	91					
	S/p						: chert 5 - from 2 cm to 6 cm						
							: ss-1 (f.g) 5 + siltstone. from 2 cm to 20 cm.	99					
							• difficult in places to distinguish matrix.						
430								97					

C-1 fgt (maybe from unit 2?)

fgts 50% arg 95 50% C-1, chert SST etc.

mtx 5

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (B-6$_{Eb}$)						
							10 cm fgt of ss-1c indicating younging up hole	97					
435			SP				SP in qtz siderite vein in large (>1m) Az-c fgt.	95					
	G$_6$ to G$_4$						fgts - 70% arg 70 30% B$_2$, B-4, SST etc. mtx 30						
440				F$_5$			± fault gouge (3cm) *** fault may correlate with one found in DDH-80-68 at 431.2	84					
							• some fracture within arg. fgt. coated with green/blue film.	98					
445							30cm fgt of ss-2 with grading indicating younging up hole.	98					
			SP				SP cm small (<3cm) fgt.						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason

COMMENTS:

DESCRIPTIVE GEOLOGY

Ditto (B-6$_{Eb}$)

fgt$_{80}$ - 90% arg. (A$_{2-c}$)
- 10% ss-1) chert

mtx$_{20}$ -

*** similar contact found in DDH-80-63B 1449.0

indistinct contact.

450

A$_{2-c}$ (possible B-5$_{Eb}$ mtx B-1 fgts > 2m

- unit exhibits considerable slippage along cleavage, and occasional local contortion resembling a B-1.

- cross laminations indicate that unit is now younging uphole.

- gently contorted, some silty laminations are strongly pyritized,

} local B-1m fgts$_{30}$ from .5 to 1.5cm.

} local B-1$_L$ fgts$_{45}$ from .5 to 7cm

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
450							83	450.0							
							98	GB8662 (2.0m) 452.0	118	400	4910	0.7	240	3.13	420
							82	GB8663 (2.0m) 454.0	120	310	4990	1.2	107	2.70	383
455	C4	4					87	GB8664 (2.0m) 456.0	96	224	4880	0.9	86	2.44	384
		49 / 45						GB8665 (2.0m) 458.0	100	141	4990	0.8	50	2.43	330
							97	GB8666 (2.0m) 460.0	113	77	5030	1.2	116	3.84	535
460		50 / 75	qtz lvt.				97	GB8667 (2.0m) 462.0	250	121	5080	1.0	66	2.80	381

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 31 of 39

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm Ag	ppm Cu	% Fe	ppm Mn
		75					Ditto (A_{2-c})		462.0							
									GB8668 (2.0m) 464.0	150	223	5330	0.7	71	2.44	394
								80								
465			qtz vt	F_7			461.1		GB8669 (2.0m) 466.0	270	405	5520	0.8	65	2.80	545
			qtz v	S_3			465.5 local B-2 pgts 60 - arg - 15% with intermitent A_{2-c} 55-1-95%	73								
		75							GB8670 (2.0m) 468.0	240	328	5640	0.6	76	2.90	505
		75						93								
	G_4		qtz vt	F_6	A		local B-1 local B-1		GB8671 (2.0m) 470.0	160	900	5640	0.5	65	2.79	465
470		70														
		75					local B-1		GB8672 (2.0m) 472.0	140	820	5820	0.6	67	2.70	435
		85	sid qtz vt				472.6 local B-1	96								
			sid qtz vt				473.3 local B-1		GB8673 (2.0m) 474.0	290	1200	6310	0.8	67	2.35	375
				F_3			— fractures coated with blue/green film local B-1	85								
475			sid qtz vt				474.5 local B-1 (max. 2cm pgt)	88	GB8674 (2.0m) 476.0	260	1550	6570	0.7	88	3.00	500
		70	qtz sid													

*** this A 2-c (or $B\text{-}5_{Eb}$) unit is a distinctive marker within hanging wall --- can be correlated to DDH-80-63B : from 449.0 to 486.7
30 : from 132.3 to 179.2
32 : from 51.6 to 60.4
51 : from 282.6 to 305.4
56A : from 504.8 to 526.6
54 : from 251.7 to 352.9

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 32 of 39

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm Ag	ppm Cu	% Fe	ppm Mn
							Ditto (A2-c)									
							477.8		GB8675 (2.0m) 478.0	245	1500	6920	0.6	68	1.80	301
		70	sid qtz vt				local B-1 Ec pgts max. 24cm.	95								
							479.0		GB8676 (2.0m) 480.0	240	1260	6740	0.6	70	1.92	320
480	GH		sid qtz vt					80								
							local B-1 Pgt. 20cm likely just local slumping		GB8677 (2.0m) 482.0	280	1560	6980	0.5	210	2.12	348
		75						93								
		75						67	GB8678 (2.0m) 484.0	134	365	7180	0.4	73	2.10	307
		79					local Pgt									
485								108	GB8679 (2.0m) 486.0	140	1000	7400	0.7	90	2.00	231
		70						70	GB8680 (2.0m) 488.0	172	1140	7460	1.0	73	2.33	209
		70						100	GB8681 (2.0m) 490.0	159	1240	8200	0.6	64	2.18	210
490		75						91	GB8682 (2.0m) 492.0	110	920	8870	0.6	86	2.32	224

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 33 of 39

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm Ag	ppm Cu	% Fe	ppm Mn
							492.2 A-2-c B-1Eb fgts90 - A-1-b, 2cm to 60cm.		492.2 GB8683 (2.8m)	360	1460	10920	0.8	84	2.04	320
			qt sid	F4			494.8 B-5Eb mtx - pebbley mudstone grading to B-2 fgts - chert12 1-10mm - B4s12 - 3mm to 2.0cm fg. chert + arg. - arg5 - 3-2.0cm. fgts - A2-c25 1.2m max commonly 2-5cm!	81.3	494.8							
495				F4				92.4	GB8684 (2.7m)	19000	2300	49,000	4.4	50	3.08	1500
							497.0 interbedded silicified A2-c and A-1, mudstone, + SS-2f-c • fractures filled with white clay mineral.		497.50	%	%		oz/ton			
		55						92.4	(1.08m) GB8622 498.58	1.36	1.08	58,000	0.10	60	1.50	80
								76.8	(0.78) GB8623 499.36	0.58	0.76	22,000	0.32	58	1.90	125
500		75					499.36 thin bar-(Sp.Gn) laminated Arg. locally.	75.3	(0.88m) GB8624 500.24	0.68	1.06	24,000	0.10	52	2.40	65
		60					500.24 (South ore zone) semi-massive to fine lam. Sp-Ba-Gn and/or Py (Po) beds alternated with thin silic. Arg (G3n4 colored)	75.3	(1.00m) GB8625 501.24	3.12	3.58	1,850	0.08	40	7.00	75
							501.24 mud-like 501.93. • local soft bar-Sp Gn-Py bed (no cementing material, mud-like up to 55cm thick). seen	66.7	(0.69) GB8626 501.93	2.76	5.60	1,390	0.04	39	8.10	190
	G3	60					*** ore zone possibly correlates to DDH-80-638 512.2 to 518.3	66.7	(0.84m) GB8627 502.77	3.58	6.70	4,970	0.07	45	4.00	40
		50					502.77 502.88 • slightly contorted, locally brecciated,	63.2	(0.72m) GB8628 503.49	5.44	9.20	1,110	0.23	30	6.35	60
		55					504.23 • Arg beds. 1cm ± thickness. up to 65cm	63.2	(0.74m) GB8629 504.23	4.10	8.60	9,560	0.19	54	5.70	35
505		45		F4			barite rich with gypsum filled fractures, occasionally barite. A2C, (SS-2f-m) (local A-1?) (possibly B2) • laminations contorted, many silty fractions pyritized. • <1% chert fgts (max 1cm)	60.7	(1.13m) GB8630 505.36	0.22	0.29	8,640	0.09	88	3.65	55
		60	qt sid	JE				100	(1.20m) GB8631 506.56	0.04	0.02	24,000	0.04	26	3.50	585

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 34 of 39

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb ppm	Zn ppm	Ba ppm	Ag ppm	Cu ppm	Fe %	Mn ppm
							507.6 Ditto (A_{2-c})		GB8685 (1.1m) 507.6	270	76	38,000	0.6	34	4.35	875
			Py				B-4 Eb mtx - pebbly mudstone. 22 locally may have > 25% fgts. - fgts - chert 10% - commonly .7cm - arg 10-12 - 2cm max - B-2 3-5 - from .4 to 2cm	86	GB8686 (1.4m) 509.0	600	2300	21,000	2.8	153	9.50	2860
510				S3					GB8687 (2.0m) 511.0	520	286	16,510	2.2	62	3.21	415
			py qtz sid				fgt 71 - B-4 20 - mtx - SS-1 f-c fgt 35 - chert 25 } .3 to 2cm - arg 10 } max 3cm • maybe highly pyritised • vary from 3cm to 1m	87	GB8688 (2.0m) 513.0	400	2200	45,000	2.0	2000	2.15	200
	G4 + G3		Py				- fractures coated with blue/green film - SS-2 f-c 5 - exhibits minor grading max 30cm. - A_{2-c} 25 from 3 to 55cm - A_1 20 from 3 - 20cm - chert 1% from 3 to 6cm	86	GB8689 (2.0m) 515.0	46	1550	24,000	1.2	970	4.50	1700
515			qtz sid	S6				96	GB8690 (2.0m) 517.0	66	47	35,000	2.2	75	4.20	790
			py qtz	F5				90	GB8691 (1.2m) 518.2	50	980	19,720	1.7	600	3.76	765
				F5			518.2									
			qtz sid py				B-1 Eb • likely just the upper section of A_2 unit having been distubed by above slump.	96	GB8692 (2.29m) 520.49	43	108	55,000	5.6	114	5.00	111
520		50					519.75 diffuse contact } carbonaceous A-2 • unit is silicified	95	GB8632 (1.00m) 521.49	22	108	54,000	3.2	22	3.80	680
		45						94.9	GB8633 (1.00m)							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV)

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

A2 (silicified).

- qtz vein with minor calcite and chlorite.

524.5

15cm qtz vein minor calcite sp

526.7

well laminated, thought gently contorted and disturbed, Bar. py. rich laminations contain disseminated sp.

Silicified A2-c

527.3

evenly laminated, laminations of ba. rich py. rich... sp dissem. [*** from ±24.5m ~ 528.3m correlated to DDH80-56A 609.36m ~ 630.02m.]

528.3

A-2 (silicified)

530.9 ↓ gradational contact over 1m.

A-2

- downhole grades into an A-1-a

← 20cm of highly pyritized arg. with associated qtz/sid veining.

535.8

A-1-b, local SS-2A-c, arg is commonly disturbed

← grading in SS-2

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
94.9	GB8633 (1.00m) 522.46	98	53	120,000	1.7	34	1.60	370
95.8	GB8634 (0.97m) 523.46	98	40	150,000	0.8	34	1.70	260
97.1	GB8635 (1.00m) 524.46	340	29	130,000	2.4	43	1.80	450
97.1	GB8636 (0.88m) 525.34	17600	2000	37000	20.	56	1.10	1760
97.1	GB8637 (0.59m) 525.93	20000	20000	30000	24.	48	1.90	555
99.3	GB8638 (0.73m) 526.66	5600	20000	110,000	20.	87	2.05	405
99.3	GB8639 (0.69m) 527.35	800	2100	150,000	2.2	44	1.85	50
99.3	GB8640 (0.95m) 528.30	4800	20000	110,000	16.	200	1.15	875
97.0	GB8641 (0.90m) 529.20	690	6800	130,000	1.8	48	1.75	665
88.8	GB8642 (1.00m) 530.20	48	175	130,000	1.0	48	2.45	760
89	GB8693 (1.8m) 532.0	120	1410	97,000	1.4	140	2.10	605
89	GB8694 (2.0m) 534.0	255	4,000	42,000	1.2	60	2.59	670
95	GB8695 (2.0m) 536.0	98	1,720	14,050	1.0	164	4.05	1430
87								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 36 of 39

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb ppm	Zn ppm	Ba ppm	Ag ppm	Cu ppm	Fe %	Mn ppm
		55					Ditto (A1-b) • moderately carbonaceous • zones up to 20 cm of 55% disseminated pyrite 538.1	83	GB8696 (2.4m) 538.34	300	1220	10,610	1.4	300	6.15	560
				F5			-2cm gouge } A-2 mainly 539.20	87.1	GB8643 (0.89m) 539.23	280	15600	13940	1.6	80	3.05	275
		50					Bar-Qz-Ser (some Sp Gn Py) laminated A-2-C Arg. [*** this unit possibly correlated to DDH 80-56 A 600.76~612.08] 539.8	94.8	GB8644 (0.57m) 539.80	103	20000	62000	1.6	74	4.00	1200
540		55					A-2-C local A-1	94.8	GB8645 (1.00m) 540.80	24	20000	73000	0.8	37	1.50	40
								95								
								96	GB8697 (1.9m) 542.7	158	316	11,550	1.5	250	3.85	570
				F3			-1cm gouge 543.9 544.2 Disturbed sediment, fgt of B-4 in A2 type rock	99	GB8698 (1.6m) 544.3	160	182	11,810	1.2	132	3.50	320
545							B-4-L solid core 545.8	78	GB8699 (1.4m) 545.67	465	460	3,720	1.2	670	5.10	2,000
				F9			badly fragmented. poor recovry 546.50 ? ? ? ?	77.7	GB8646 (0.84m) 546.56	154	410	3360	0.5	66	4.25	1600
			Bar Qz Sp Gn Py	F?		No core except sand	Bar-Qz-Sp-Py(Gn) sand (Possibly caved from soft ore part in 500.24~504.23) (fault zone origin?) 548.8m mtx-SS-1f-c fgts-chert25 + arg25 from 2mm to 2cm, commonly .5 to .7cm - cut by sid./qtz veins - 17cm section (fgt?) of SS-2f.m) • this B4 very similar to B-4 fgt found at 507.6 to 518.6	30% + sand.	GB8647 (2.32m) 548.83	20000	20000	1160	0.8	33	4.60	280
			Qz Sp Py				Mixture of noted-below rocks (in following order) B-4-L (20cm) as above, A-1 (9cm) green, moderately hard B-1-M? (23cm) sideritized; B-4-S (38cm) SS Mtx with Arg35 cht, fgt. 549.70m	67.6	SB8648 (0.82m) 549.65	13400	700	3070	9.6	470	10.	3250
550							Pebbly mudstone fgt: cht5, Arg3, SS. • Py dissem. (2 vol%±) 550.70m	83.3	GB8649 (1.00m) 550.65	600	475	7390	0.5	155	2.70	665
								83								
							B-1-Ec Qz-Sed stockworked. (locally pebbly mudstone)									

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV)

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

Ditto (B-1-Ec local Pebbly mudstone altn; Qz-sid-vein stockworked)

B-1-Ec: up
fgt: Argo→Ab+ (mainly A-Z rock, <15cm ϕ
1 in 3 cm ϕ common)

555

Pebbly mudstone: up to 20cm or more in thickness
fgt; mostly ss2/1-5mm (<1mm ϕ common,
some <1cm x 4cm lenses.)

- Qz-sid. vein-veinlets extensive 5→20 vol %
- rock is fairly contorted
- locally Cp patches or blebs in vein or dissem. noticeably.

560

3cm gouge

Zone of sporadic concentrations of disseminated chalcopyrite

*** chalcopyrite blebs in B-1/Pebbly mudstone, is characteristic of footwall usually associated kniest (Qtz-sid veining stockwork)

correletes to DDH-80-638 - 551 to 556
78-30 - 202.5 to 224.9
78-41 - 82.3 to 118.9

- 3cm gouge

565

566.8 A-1 ↓ gradational contact.

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
		ppm % Pb	ppm % Zn	ppm % Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
92	GB8700 (2.35m) 553.0	280	1080	4220	0.2	1420	1.55	105
	GB8701 (1.5m) 554.5	146	155	7050	1.0	625	1.55	180
92	GB8702 (1.5m) 556.0	31	42	7470	0.4	305	1.10	65
91.8	GB8650 (1.04m) 557.08	70	58	6670	0.2	189	1.45	500
89.3	GB8651 (1.10m) 558.18	26	64	5770	3.4	4800	4.60	1700
89.3	GB8652 (0.50m) 558.68	21	31	6740	0.4	570	3.25	1230
89.3	GB8653 (0.73m) 559.41	20	44	5790	1.2	2300	4.45	1730
89.9	GB8654 (0.91m) 560.32	16	42	6490	0.6	1070	2.85	1060
90.7	GB8655 (0.70m) 561.02	12	61	6300	5.2	8300	2.40	420
90.7	GB8656 (0.86m) 561.86	9	24	6600	0.2	390	1.95	610
90.7	GB8657 (0.95m) 562.81	12	50	5650	4.7	6300	3.00	915
87.4	GB8658 (1.00m) 563.81	18	25	6410	1.2	1110	2.70	560
87.4	GB8659 (0.83m) 564.64	52	65	6840	1.0	690	3.05	170
103	GB8703 (2.2m) 566.8	50	72	7720	0.8	360	3.70	255

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV)

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

Ditto - (A-1)

- local A_2 (up to 15cm) (fgts?)
- rock is very carbonaceous and mildly calcareous
- fossiliferous beds (fgts?) <5% from 4 to 15cm; crinoid stem fgts and possibly brachiopods.
- unit has been disturbed, and is possibly a B-1?
- moderate to high qtz/sid veining ("Kniest") from 4mm to 3cm thick with one location having associated sp.
- some fractures are graphitic shears.
- good cleavage visable.

15cm bed? of fossil fgt.

** unit may correlate to DDH-41 from 56.4 to 82.3

578.9 — ↓ gradational change to A_2 over 2m

A_2

- bedding is obviously disturbed bedding to core axis angles from 0° to 75°

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
85	GB8704 (2.2m) 569.0	32	34	4310	0.6	39	1.70	136
71	GB8705 (2.0m) 571.0	34	36	5000	1.0	118	1.70	58
92	GB8706 (2.0m) 573.0	25	2050	2390	0.4	91	1.80	167
55	GB8707 (2.0m) 575.0	63	393	1930	0.4	182	1.60	152
92	GB8708 (2.0m) 577.0	22	34	3030	0.2	41	2.15	234
83	GB8709 (2.0m) 579.0	23	50	7070	0.2	79	1.85	141
	GB8710 (2.0m) 581.0	32	54	5130	0.3	156	1.70	152

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63 CLAIM: Jason 57 PROPERTY: Jason (OJV)

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm Ag	ppm Cu	% Fe	ppm Mn
							COMMENTS:									
							A_2	95	GB8711 (2.0m) 583.0	46	60	2410	0.5	109	1.90	1710
							• laminations vary from pronounced to faint.									
							• greater kniest development going up hole.	72	GB8712 (2.0m) 585.0	44	425	2580	0.3	74	1.70	1500
585	G6						• sections (up to 30cm) of concentrated disseminated pyrite (up to 10%).	87	GB8713 (2.0m) 587.0	30	101	2080	0.2	98	1.90	1800
							*** may correlate to DDH. 78-41 from 28.0 to 56.4									
							Sec. Z —	95	GB8714 (2.0) 589.0	36	68	2750	0.2	65	1.45	1180
		45/					well laminated, very uniform, mildly calcareous, not as siliceous as above.									
590	G3	55°					EOH - 591.62	90	GB8715 (2.6m) 591.6	32	87	2760	0.2	92	1.40	1000

Assay Averages

Depth Interval: 500.24 - 504.23 m

Core length: 3.99 m

% comb. Pb-Zn: 5.14 ppm

% Pb: 3.75 ppm

% Zn: 6.53 ppm

090712

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63A CLAIM Jason 57 PROPERTY Jason (OJV) PAGE No. 1 of 10

CORE SIZE NQ AZIMUTH 171.8° ELEV. COLLAR 1072.4 m LOGGED BY G. Bishop

ANGLE of HOLE 54.4° TOTAL DEPTH 379.78 m (131.37 m drilled) NORTHING 7002505.0 DATE BEGUN Sept 16/80 FINISHED Sept 25/80

SECTION % RECOVERY 81.36% EASTING 436469.5 CORE STORED AT Jason Property

COMMENTS: wedged off of DDH-80-63 at 248.41 SCALE: 1cm = 1m

*** - correlation diagram for 80-63, 80-63A + 80-63B at back of 80-63 log

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							Sperry Sun Tests						

Depth (m)	Dip	Az.
274.0	52	191
305.1	53	163
335.6	47.5	160
335.6	47.5	155

? (Az. 191, 163, 160, 155)

- readings for Az unreliable,

Hole was abandoned when rods became stuck at second wedge

wedged at: 248.4
274.0
306.3
335.6

248.41

B-6 Eb

mtx - B-2L (local grading to pebbly mudstone)
- fgts 20-50
- chert 60
- SS-1 77
- B-4 m10 mtx SS-1 m-c 5
fgts - chert } .7cm max
- SS-1
- arg

96.4

250 Gs S/P

Office of the Supervising Mining Recorder DEC 9 1980 WHITEHORSE Yukon Territory

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63A CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 2 of 10

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-6 Eb)								
							mtx (con't) $_{50}$ B-2 L - fgts (con't) - A-2 5 - A-1 8 • mtx fgts considered to be less than 3 cm.	97.0							
255							fgts $_{50}$ - SS-1 m-c S - with < 5% fgt > .5 cm - max 22 cm. - chert < 1% - max - 6 cm.								
							- B-4 L 5 - mtx $_{30}$ - SS-1 f-m - fgts $_{70}$ - chert 65 - up to 3 cm. - arg 5 up to 1 cm. • up to 40 cm fgts	93.4							
							- B-4 L 10 - mtx $_{20}$ - SS-1 f (siliciclous) - fgts - chert 50 - arg 50 } from < .5 cm to 3 cm - up to .8 m fgts - contain 1-3% siderite and < 1% d. sp.	85.3							
260							- arg $_{30}$ - A-2 to A-2-c								
			SP	F3 S4			260.8 — • many fractures in arg. ftg. coated with blue/green film.								
			SP PY				SS-1 } 2 cm gauge B-4 L with 1 30 cm fgt of SS-1 m } *** correlates to DDH-80-63, 260. to 262	68.1							
		PY V					262.7 *** contact correlates to DDH-80-63 262								
							B-3 Eb								
							mtx - pebbly mudstone - fgts - chert - arg - SS-1 } 3 cm max. commonly < 1 cm.	90.1							
265								99.3							
								41.1							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63A CLAIM: Jason 57 PROPERTY: OJV

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto ($B-3_{Eb}$)	55.9							
							fgrs – A-2-b (minor A_3) – from 3cm to 6m commonly .5m	75.4							
270				S4			• many fractures coated with blue/green film, others have thin smear of py, or calcite/clay (sericite) filling	78.2							
								79.2							
275								wedged no recovery							
								38.0							
								54.9							
								58.6							
280								14.4							
				F6				11.3							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63A CLAIM: Jason 57 PROPERTY: OJV

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-3$_{FD}$)	97.2							
285							286.5	91.3							
290					F_3		1 large A_3 fgt, bedding subparallel to core axis. *** fgt correlates to similar fgt in DDH-80-63 : 284.3 to 292.5 63B 285.3 to 291.8	95.7							
								83							
							293.8	98.0							
295								102.3							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63A CLAIM: Jason 57 PROPERTY: OJV

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-3$_{Eb}$)	95.1							
300								91.3							
305								92.8							
								106.0							
								98.9							
310								94.6							
							310.90 ↓ gradation contact 10cm SS-1 f-m Sgt B-4$_{Eb}$ (possibly still B-3$_{Eb}$)								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63A CLAIM: Jason 57 PROPERTY: OJV PAGE No. 6 of 10

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (B-4 Eb)	96.7					
315							mtx - pebbly mudstone (similar to preceeding unit) - fgts - chert - arg - ss-1 - siltstone - <1% B-4 m	94.8					
							fgts - ss-1 f-m (silt) 2% max. 10cm (likely from A-3) - B-4 L 7 - mtx 15 - ss-1 f-c - fgts 85 - B-4 S 15 - mtx 5 - ss-1 f - fgts 55 - chert 90 - arg. } max .5cm • max 6cm ϕ - chert 65 3cm to 5cm ϕ	100					
320							319.2 } B-4 L 320.1 arg 20 (A-1 type mostly) - arg (A-2 + A-2b) - max .5m commonly 10-20cm • except for 1 B-4 fgt section could be called a B-3 Eb	94.7					
				qtz sid vt			last 10cm contains highly pyritized chert fgts 322.9						
			d. py				B-6 Eb pyritized beds.	96.1					
325			d. py	F 4			mtx 50: B-2 L : (local pebbly mudstone) fgts ≈50: chert, arg, ss-1 p-c } max 3.5cm commonly <1cm *** fault correlates to DDH-63 at 328.2 63B at 326.2	65.6 92.7					

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63A CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 7 of 10

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (B-6$_{Eb}$)						
							fgts$_{50}$: A-2$_{32}$ - max 50cm - commonly < 20cm						
330	S/P						: A-1$_{12}$ - one 2.6m fgt - 2 or 3 smaller (<15cm) fgts	82.9					
							- very carbonaceous						
	G5						: B-4$_{m6}$ - mtx$_{70}$ - SS-1 m-c - fgts$_{30}$ - chert$_{25}$ } max 1.5cm, arg$_5$ }	93.1					
							*** SS-1 → B4 fgt correlates to DDH-80-63 from 328.2 to 330.7; 63B from 333.3 to 335.2 - only 1 fgt cutoff by wedge, ∴ greater than 52cm						
335							335.29 — 335.58 } SS-1 → BH$_5$	55.3					
							Wedged no Core	wedged no recovery	335.58				
							337.41		337.41				
	G7						carbonaceous A-1 fgt.	91.6					
340							340.0	95.3					

- in 1st 5m of section several beds (≈10cm) high pyritized, especially chert fgts.
- small (<2cm) silty/sand fgts are felt to come from A-2 type rock.

*** fgt correlates to similar fgt found in DDH-80-63 from 332.8 to 334.4; 63B from 335.2 to 337.0

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63A CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 8 of 10

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-6 Eb)								
							*** B-6 Eb unit correlates with similar unit found in: DDH-80-63 from 315.5 to 341.2; 63B. from 321.7 to 343.2	84.9							
345				F7			345.0								
							B-3 Eb.	26.2							
							mtx: pebbly mudstone (locally B-2 like) 5								
							fgts - chert 3 max 1cm commonly < 3mm	84.3							
							- arg. - max 2 cm. up to 30%								
							- B-2 s - max 1.8cm - locally 20% usually less than 2% or absent.								
350							- SS-1 < 3 - may be from A-2 type,	83.6							
							• fgts usually make up < 25% or rock but maybe up to 50%.								
							fgts 95 : A-2, + A-2-C 92 max of 3m commonly > 1m.	90.2							
			d. sp				4cm B-4 fgt with d. sp								
355							: B-4 m < 3 - highly silicified matrix, rim of fgt contains d. sp.	24.8							
							• fgts silicified (chert+arg?) • only 1 fgt - 4cm								
							: SS-2 < 3 maybe from A-2 up to 8cm.								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63A CLAIM: Jason 57 PROPERTY: Jason (OJV). PAGE No. 9 of 10

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

Ditto ($B\text{-}3_{Eb}$)

- most silty fgts or silty fractions of A-2 are calcareous.
- fractures & shears may have either blue/green film or graphite smear
- Note this section is defined mostly on the maximum size of the non-org. fgts in mtx.

*** this $B\text{-}3_{Eb}$ unit likely correlates to DDH-80-63 - from 341.2 to 357.1
63B - from 343.2 to 364.4

368.3 ——— indistinct contact

$B\text{-}6_{Eb}$

mtx - $B\text{-}2_L$ (locally like pebbly mudstone)

fgts - chert - from .2 to 4cm
<50 org from .2-4cm
55^{-1} f-c' from .2 to 4cm

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER
86.6	
101.9	
90.1	
89.2	
43.7	
68.3	
76.5	
23.1	
80.7	

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63A CLAIM: Jason 57 PROPERTY: Jason (OJV)

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-6 Eb)	93.0							
375							373.7 — A-3 - laminations subparallel to core axis. Jgts: A-3 - very silty (50% qtz rk). - up to 1.9 m. : SS-2 f-m - up to 50 cm. (calcareous)	84.4							
							375.5 SS-2 : SS-2f → SS-2 → B-4S → B-4L With A-1 fgts up to 19 cm making up 50% of fgt.								
							4 cm gouge carbonaceous A-1. : A-1 carbonaceous, max 19 cm	91.8							
							378.0 — SS-2 → B-4L *** fgt correlates to DDH-80-63 - at 374.9 63B at 375.8 — 379.17								
							last .61 m of core lost in hole — 379.78								
380							Hole was discontinued due to rods breaking at second wedge. Unable to recover drilling equipment below break.								

090712

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. D.D.H-80-63B | CLAIM Jason 57 | PROPERTY Jason (OJV) | PAGE No. 1 of 21

CORE SIZE NQ | AZIMUTH 170.5° | ELEV. COLLAR 1054.2 m | LOGGED BY G. Bishop

ANGLE of HOLE 51.2° | TOTAL DEPTH 561.90 m. (292.76 m drilled) | NORTHING 7002491.2 | DATE BEGUN Sept 27/80 FINISHED Oct 8/80

SECTION | % RECOVERY 91.41% | EASTING 436471.7 | CORE STORED AT Jason

COMMENTS: Wedged off of DDH-80-63A at 269.14 m

***-correlation diagram for 80-63, 80-63A, 80-63B at the back of 80-63 log.

SCALE: 1cm = 1m.

DESCRIPTIVE GEOLOGY

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

Gyrolog Data

Depth(m)	Az°	Dip°	Depth(m)	Az°	Dip°
30.48	183	71	335.3	172	46
60.96	182	70	365.8	172	40
91.44	179	69	396.2	173	37
121.92	175	62	426.7	165	30
152.40	174	62	457.2	166	28
182.88	174	60	487.7	165	26
213.36	175	58	493.2	162†	26*
243.84	172	55	518.2	162†	26*
274.32	171	51	548.6	162†	26*
304.80	172	47	561.9	162†	26*

Wedged at.: 248.41(m)
269.1(m)
341.4(m)
413.3(m)

*-from sperry sun tests
†-estimated.

269.14

270

B-3 Eb

15cm gouge

% CORE RECOVERED: 76.2 | 83.9

SAMPLE INTERVAL & NUMBER

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

Office of the Supervising Mining Recorder
DEC 9 1980
WHITEHORSE
Yukon Territory

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-63B CLAIM: Jason 57 PROPERTY: Jason (OJU) PAGE No. 2 of 21

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (B-3 Eb)						
							Mtx: pebbly mudstone, (locally B-2 like) 10	68.0					
275							fgt- chert <2, 15-30 arg, ss-1 <1, B-4 s <1, B-2 <2 — up to 2.5 cm, commonly .5 cm	72.1					
							fgts: A-2, A-2c, A-3	121.9 ?					
							from 2.5 cm to 6.5 m commonly greater than 10 cm	55.6					
280							• silty fractions grade into medium grained sandstone, which are calcareous.	76.7					
				F4			← 4cm gouge • pyritic smears on some of the fractures.						
								100.7					
285							285.3						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJU) PAGE No. 3 of 21

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (B-3 Fb)	98.0					
290							A-3 fgt *** fgt correlates with similar fgt in DDH-80-63 from 284.3 to 292.5 63A from 285.3 to 291.8 as does the fault at down hole end of fgt.	98.7					
							291.8 — 10 cm gouge	95.6					
295								101.6					
								100.0					
								88.2					
300							300.2 --	86.9					

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJU) PAGE No. 4 of 21

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

Ditto (B-3 Eb)

B-1 like
max arg ∫gt 20cm
commonly 6-7cm

305.1

305

310

315

% CORE RECOVERED: 94.7 | 94.4 | 77.8 | 96.1 | 99.0

SAMPLE INTERVAL & NUMBER

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 5 of 21

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-3 Ed)	96.7							
320							*** contact correlates with DDH-80-63 at 315.5, 63A at 322.9	101.0							
			*				321.7 B-5 Ed								
							Mtx - B-2 S-L (locally B-1 like)								
							fgts. chert, arg } max 2.5 cm commonly <1cm	95.4							
325				FS			fgts: A-2 - from .25cm to 28cm.	48.4							
							*** this B-5 Ed + following B-6 Ed to similar unit in DDH-80-63 - from 315.5 to 341.2, 63A from 322.9 to 345.0	47.0							
							B-1 like								
330								97.7							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJU) PAGE No. 6 of 21

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
		45	SP	F			Ditto (B-5 Eb)						
							333.3 — conformable contact	88.9					
							SS-1 → SS-4 → B-4m → B-4L fgt chert >0 arg 30 } possible fgt? or upper section of B-6 Eb						
335				C			334.9 — 335.2 } B-4L chert 10 arg 90	86.1					
							large A-1 carbonaceous; B-6 Eb.						
							337.0 mtx: B-2L 49						
							*** both SS-1 → B-4L fgt and carbonaceous A-1 fgt correlate to DDH-80-63: from 328.2 to 334.4; 63A: from 335.0 to 340.0	89.4					
							fgts 90 - chert 5 - max 4cm commonly < 1cm - arg 83 max 6cm commonly 1-3cm - B-2s, < 1cm						
340							fgts 41 - B-4L - up to 21cm mtx - SS-1 f-c fgts - chert 80 + arg 50 - A-1 2 light grey (G3) max 17cm - A-1 33 carbonaceous max 1.8m, - B-4s - max 6cm	94.4					
							20cm B-4 fgt; *** fault contact correlates with DDH-80-63: 341.2; 63B 345.0						
				F5			343.2 B-3 Eb	83.1					
345							mtx: pebbly mudstone fgt. - chert <1 arg 20 } max 1.5cm commonly <.5cm.	62.0					
							fgt: A-2c + A-3 - up to 11.2m!!						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63A CLAIM: Jason 57 PROPERTY: Jason (OJV)

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (B-3 EB).						
							• large silty calcareous Sgt - from A-3 type rock	95.7					
350								50.7					
								97.5					
							353.2						
								100.0					
355							← 4cm qtz/sid vein.						
								98.4					
360							A-2 c Sgt laminations sub parallel to the core axis.	91.5					

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 8 of 21

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto ($B-3_{Eb}$)	99.3							
							364.4								
365							$B-6_{Eb}$								
							mtx: $B-2_{44}$ $_{m-L}$ (occasionally local pebbly mudstone like)	99.0							
							fgts - chert 25, arg 10, ss-lf-c 10, B-H 15 } max 2.5cm								
								98.0							
370							fgts: $C-2_{56}$ $_{L}$ - likely unit 2								
							10 fgt, up to 7.5m								
							mtx - ss-1.m-c } max 6cm commonly 1-2cm								
							fgt - ss-2f, -chert, -arg	94.8							
							: A-2 (minor A-3) $_{30}$ max 6.3 m. commonly 7 10 cm.								
							: $B-H_{10}$ $_{L}$ - some variety with different fgts - max of 1m. commonly 10-30 cm								
375							3cm gouge	90.5							
							375.8								
							mtx $_{50}$ - ss-1f-c, fgts $_{50}$ - chert $_{40}$, arg $_{10}$ } max 1cm commonly 1cm.								
							ss2 → ss-1 → B-H $_{L}$ fgt.								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJU) PAGE No. 9 of 21

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-6Eb)								
							378.0	97.4							
							fgts cont - SS-2f-m → SS-1c → B-4L sequence of rock types exhibiting some crude or good grading.	6							
380							- silt. - maybe from f-m<1 A-3, up to 80cm - usually calcareous. - may grade to SS-2f-c								
							382.6	81.0							
	S/P						*** this B-6Eb unit correlates with a similar unit in DDH-80-63 from 351.1 to 450.0								
385								98.0							
							386.6 } B-4m 387.1	101.0							
390							389.6 } B-4L	97.4							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 10 of 21

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-6 Eb)								
							86.9								
							← 3cm gouge.								
395							395.0								
								97.1							
							C-2L fgt likely unit 2.	86.9							
400								96.7							
								100.7							
							402.5								
								98.4							
405								72.0							
							possible B-5 unit								

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 11 of 21

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							407.0 Ditto (B-6 EOH)								
410							A-2a Sgt.	98.4							
								97.4							
							413.3								
415								86.8							
								73.9							
								91.4							
								92.1							
420							420.3								
							SS-1 → SS-2 → B-4	92.8							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM Jason 57 PROPERTY: Jason (OJU) PAGE No. 12 of 21

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							422.6. Ditto (B-6Eb)								
								97.7							
425															
								92.0							
								85.1							
430															
								74.9							
							← 40 cm gouge. *** possibly correlates to fault in DDH-80-63 at 440.0								
								90.8							
435															
								93.1							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 13 of 21

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-6 Eb)								
							439.8 } B-4L ρgt. 440.8	95.1							
440															
							442.2 } ss-2 → silt. 443.0	95.9							
	G5							95.9							
445								88.9							
							449.0	95.1							
450							B-5 Eb (possibly disturbed A-2c with local B-1) mtx - B-1L ρgts A-2c commonly < 1cm. fgts - A-2c up to 4m. with sand/silt sections up to 22cm								
							451.5	98.0							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 14 of 21

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (B-5Eb)						
							A-2c fgt 80° to CA						
							454.3						
455								99.3					
							456.7						
				qtz sd			A-2c fgt, laminations 80° to core axis.	97.7					
	G5			S2			458.9						
							←15 cm SS-2 f-m.						
							459.8						
460							←22 cm of SS-2 f-m						
							A-2c fragment laminations 70° to Core Axis	95.1					
							10 cm B-1 (mudstone like)						
							463.1						
				qtz sd				96.1					
465													
				S4			466.2	86.4					

*** this B-5Eb (A-2c A-3) unit is a distinctive marker within the hanging wall; ... can be correlated to:

DDH-80-63 from 450 to 494.8
30 from 132.3 to 179.2
32 from 51.6 to 60.4
51 from 282.6 to 305.4
56A from 504.8 to 526.6
54 from 251.7 to 352.9

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 15 of 21

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM Mn
				S_2			(Ditto) B-5 Zb A-2c fgt - lamination 85° to core axis 469.8	82.7								
470				S_4			fgt of A-2c laminations subparallel to core axis 1cm gouge 471.4	94.6								
	G5						A-2c fgt, laminations 70° to core axis 473.9	101.1								
475								94.8								
								90.8								
480								99.7	480-70							
									GB9331 (3m)	400	2800	8200	1.2	74	2.45	305

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 16 of 21

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb PPM	Zn PPM	Ba PPM	Ag PPM	Cu PPM	Fe %	Mn PPM
							(Ditto - B-5 Eb)	99.3	GB9331 (3m) 483.70	400	2800	8200	1.2	74	2.45	305
485	10			gtz stk			483.8 ← 20cm of contorted highly pyritized A-2c.	94.2	GB9332 (3m) 486.70	340	2650	9400	1.0	76	1.90	250
							486.7 — 2cm gouge. B-6 Eb	83.9	GB9333 (2m). 488.70	275	13900	5320	6.8	275	5.10	1600
							487.9 B-4 m fgt minor gn (4.1% 6) 488.7									
490							mtx: B-2 m-l 45 fgts: chert 50 org 10 } max 40 } 3cm • possible grading of fgts in mtx. • fgts usually rounded.	96.2	GB9334 (2.70m) 491.40					88		
			sp				fgts: B-4 m 65 15 + up to 80cm mtx: SS-1 m-c fgts: chert 50 org 50									
			sp				: A-2 50 - up to 62cm. commonly < 20cm.	93.4	GB9338 (2.30m) 493.76							
			sp sp				• ore fragments (mostly sp, minor gn) increasing downward through section.									
			sp				1cm gouge.	89.4	GB9339 (1.40m) 495.10							
495					5F		495.1 — B-6 Eb. (similar to above) mtx: 10 B-2 m-l ? fgts: 90 B-4 m-c B-4 sc m	96.0	GB9340 (3.32m)							

A-2

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 17 of 21

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							497.25 Ditto B-6 Eb • difficult to define mtx - fgts cut by qtz vein, minor gn -	96.0	GB9340 (3.32m) 498.42				
				qtz gn			498.01 B4 m-L fgt.						
							498.42	99.6	GB9341 499.30 (0.88m)				
				qtz sid			499.3 bedded ba with d. sp + py	100	GB9342 499.80 (0.50m)				
500				qtz			499.8 chert with minor mineralized bands	100	GB9343 500.72 (0.92m)				
							501.36 high grade - ba > sp ≥ py > gn - in thin laminations gently contorted.	100	GB9344 501.36 (0.64m)				
	G3						502.09 mostly silicified arg, py, bands up to 3cm thick, minor banding of ba > sp >> gn	100	GB9345 502.09 (0.73m)				
							502.89 several very sp rich laminations, sp + gn disseminated throughout,	100	GB9346 502.89 (0.80m)				
							503.54 silicious arg with sp + gn laminations	100	GB9347 503.54 (0.65m)				
							504.74 localized breccia (syngenetic?) sp rich laminations, with py. some gn laminations, minor chlorite mostly associated with qtz veins	100	GB9348 504.14 (0.60m)				
								96.4	GB9349 504.74 (0.64m)				
505							505.44 B-6 L with large qtz vein with minor gn.	96.4	GB9350 505.44 (0.70m)				
							B-6 Eb	96.4	GB9776 506.48 (1.04m)				
	S/P						mtx: B-2 s-m (locally pebbly ss) 53 fgts: chert 60, arg 40 max. 1cm 507.19 commonly < .8cm	95.8	GB9777 507.30 (0.82m)				
							fgts: A-2 40 max. 32cm. 47 B-4 m6 - max 26cm SS-1 m1 - max 6cm • some B-4m fgts very similar to B-4 fgts in above B-6 Eb.	91.6	GB9335 (2.94m) 510.24				
510							510.00 A-2						
	G4			qtz			13cm fractured core gypsum filled fractures, 2cm gouge. • becoming increasing silicified downhole.	98.7	GB9778 511.20 (0.96m)				
								100	GB9779 (1.01m)				

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason 57 PAGE No. 18 of 21

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

			% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
512.21		conformable, gradational contact		512.21				
	ba rich - laminated, with sp, some qtz rich laminations up to 3cm thick.	zone of main mineralized south zone. *** possibly correlation with DDH-80-63 500.2 to 504.2	100	GB9780 513.30' (1.09m)				
513.75			100	GB9781 513.75 (0.45m)				
	high grade section of SO, Ba, qtz, sulf through uniformly laminated.		100	GB9782 514.30 (0.55m)				
514.87			100	GB9783 514.87 (0.57m)				
515.51	ba rich, sp > qtz		99.4	GB9784 515.51 (0.64m)				
	silicified arg, with disseminated sulfides minor qtz.		98.2	GB9785 516.56 (1.05m)				
516.56			95.4	GB9786 517.10 (0.54m)				
517.10	laminated arg, ba, sp, qtz, silicified arg minor sp	for more detail of mineralized sections, refer to 1:20 sketch in office.	95.4	GB9787 517.64 (0.59m)				
517.64			95.6	GB9788 518.25 (0.61m)				
518.25	laminated arg, ba, sp,		91.7	GB9789 518.93 (0.68m)				
			77.6	GB9790 519.84 (0.91m)				
520.3			75.2					
			5.5					
			50.8					
← 15cm pyritized zone with qtz.			83.1					

A-2

- some fractures heavily pyritized

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 19 of 21

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

527.1

528.1 } contorted A-2/silt/ss-2

B-6 Eb

mtx 56; B-4m mtx: ss-1 f-c
fgts: chert 35 arg 30 2

fgts 44: A-2/silt/ss-2 max 1.1 m 38%
: ss-1 m-c 6% max 75cm.

531.7 – 532.4 } contorted A-2c with silt/ss-2

• mineralization is restricted to one fgts within arg/silt/ss-1 fgts.

534.3 – 535.4 } contorted A-3 or Arg + ss-2 f-m + silt

536.1 – 536.8 } ss-1 m-c

538.2 – 539.4 } contorted Arg/ss-2a.m/silt.

540.2 } transition zone mtx changes but contains similar ore fgts.

B-4 Eb.

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
97.4							
70.1							
94.4							
98.0	536.75						
39.8	589791 (1.70m) 538.45						
79.8	589792 539.02 (0.57m)						
79.8	589793 (1.39m) 540.41						
41.9							
80.2							
91.8							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJU) PAGE No. 20 of 21

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
							Ditto (B-4 Eb)						
							mtx: pebbly mudstone 70 fgts: arg, silt, ss-1 } up to 2cm.	91.4					
							543.8 } ss-1 fgt with d. chalcopyrite.						
545							fgt: ss-1 f-c 30 max 65cm. 20 commonly <10cm	88.7					
							546.5 ↓ possibly same unit	50.0					
							B-4 Eb	82.6					
								68.9					
							mtx: pebbly mudstone. 56 fgts: arg, ss-1, silt. } up to 2cm commonly <1cm.	92.3	549.25				
550							550.16	100	689336 550.16 (0.91m)				
			ch				550.72 } zone of chalcopyrite fragments in mtx	100	689794 550.72 (0.56m)				
							· mtx contain more sand (.5 to 2mm) sized fragments than above.	100	689337 551.65 (0.93m)				
							fgts: B-1 - fgts A-2c/A-3 - 33% - max 32cm. Arg - up to 10cm.	100					
555							zone containing strongly kniest fgt *** possible correlation with DDH-80-63: 555.0 to 565.0	95					
							many of B-1 + Arg fgts - strongly filled with kniest. : SS-1 f-c max 33 cm						

11

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. DDH-80-63B CLAIM: Jason 57 PROPERTY: Jason (OJV) PAGE No. 21 of 21

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (B-Heb)	96.5							
							559.0								
560							Pebbly Mudstone lgts - arg ss - 1 m.c } max 1.5 cm commonly < 1 cm. • disseminated py throughout	100							
							561.90 END OF HOLE								

090712

CORDILLERAN ENGINEERING —— DIAMOND DRILL RECORD

HOLE No. 80-64 | CLAIM JASON 153 | PROPERTY JASON | PAGE No. 1 of 13

CORE SIZE HQ | AZIMUTH collar 207° 204.52m 207° | ELEV. COLLAR 1373.8m | LOGGED BY D.R. GOOD

ANGLE of HOLE collar -60° 204.52m -60° | TOTAL DEPTH 206.96m | NORTHING 7004,612.97 | DATE BEGUN Aug. 23/80 FINISHED Aug. 31/80

SECTION | % RECOVERY 90.28% | EASTING 433,317.77 | CORE STORED AT JASON PROPERTY

COMMENTS: Interval from 32.31m to 106.79m is considered as being the Road River Flaggy Mudstone Unit after personal communication with Steve Gordy of the G.S.C.

SCALE:

SPERRY SUN TESTS

Depth	Inclination	Azimuth
collar	-60°	207°
46.02m	-61.5°	212°??
91.74m	-61	207°
143.56m	-61	207°
204.52m	-60	207°

Office of the Supervising Mining Recorder DEC 9 1980 WHITEHORSE Yukon Territory

OVERBURDEN

32.31 — diss. pyrite blebs to 1 vol %

Silty Mudstone

- med. grey, dense, massive, non-calc., non-silicified
- minor stylolite development with blk argillaceous stylolites suggesting pressure-solution processes.
- in first 2m., worm tubes occur in black mudstone below grey silty mudstone interfaces. The worm tubes are filled w/ grey silty mudstone + minor (<1%) pyrite. The tubes tend to decrease down into the black mudstone from the grey silty mudstone interface which would suggest stratigraphic top direction is downhole.

33.17 — worm tubes

33.73 — worm tubes

34.93 — worm tubes

diss. py. band (discontinuous)

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-64 CLAIM: JASON 153 PROPERTY: JASON

m SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
	GS						Silty Mudstone									
							ditto									
							- light grey silt content decreases gradually to ~ 36.85m, from there dark grey mudstone predominates with light grey silt content increasing gradually once again to 75.30m.		39.62							
40							N B. - Although there appears to be a grain size increase to the light grey silt, the color change may be more a reflection of a chemical or compositional difference	100	41.0							
							- crude bedding occurs as splotchy, mottled patches & discontinuous laminae or bands of the light grey silt in the mudstone. This tends to increase towards 75.30m: Bedding is affected by stylolite formation & possibly some soft sediment deformation.	93.8	DG 8573	16	25	740	0.2	17	4.0	480
					△				43.0							
					△			89.5								
45					△				44.2							
			py				- two pyrite "iron crosses" ~ 7mm in size									
50		19°														
	GS	21°	py				- discontinuous f.g. sand band 1cm thick w/ pyrrhotite + pyrite									

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-64 CLAIM: JASON 153 PROPERTY: JASON PAGE No. 3 of 13

SECTION m	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm oz/ton Ag	ppm Cu	% Fe	
	GS						Silty Mudstone									
							ditto									
55	"															
	"	21°														
60	"															
	"	21°														
								99.3	64.01							
65	GS								65.0							
								91.7	DG 8580	12	100	640	0.2	116	2.2	
									67.0							

ppm Mn 1000

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-64 CLAIM: JASON 153 PROPERTY: JASON PAGE No. 4 of 13

m SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							COMMENTS:								
	GS						Silty Mudstone		67.06						
							ditto	99.6							
									68.58						
70	"	14°					increasing silt content								
	"														
									74.68						
75							broken & ground core, poor recovery	26.2%							
							75.90 — gradational contact over ~2 meters		75.90						
							Muddy Siltstone (weakly-moderately calcareous)								
							- silt content increases downhole (up section) until at ~75.90m it predominates over mud.								
							- stylolitic textures are well developed and become quite intense from ~86m to 106.73m. In places pressure solution processes create a "brecciated" appearance with muddy stylolites surrounding siltstone "fragments".								
							- qtz ± calcite veins & veinlets occur throughout this interval. Most of the qtz ± calcite or dolomite? veins cut the core at ~70-90° to axis. These post date qtz and calcite veinlets which cut the core nearly parallel to core axis. Minor pyrite (<1%) occurs associated w/ the veins. The qtz-calcite veins cutting ⊥ to c.a. often are vuggy and have qtz crystals up to 1cm in length.								
80															
	GS														

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-64 CLAIM: JASON 153 PROPERTY: JASON

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm oz/ton Ag	ppm Cu	% Fe	Ppm Mn
85	GS	1/2°					Muddy Siltstone ditto - very minor pyrite (<1% vol) occurs locally, generally associated with the veining - weakly silicified (silty component is more siliceous than muddy component) - the siltstone is weakly to locally moderately calcareous									
90	GS					broken core; poor recovery		85.6	91.0							
								82.0	DG 8081	15	30	270	0.2	38	3.6	1820
								79.8	93.0							
95	GS					well developed qtz + calcite vein stockwork			94.18							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-64 CLAIM: JASON 153 PROPERTY: JASON PAGE No. 6 of 13

COMMENTS:

SECTION (m)	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm ~~%~~ Pb	ppm ~~%~~ Zn	ppm ~~%~~ Ba	ppm ~~oz/ton~~ Ag	ppm Cu	% Fe	ppm Mn
	G5	14°					Muddy Siltstone ditto									
100	"															
	"															
105	G5						well developed qtz + calcite vein stockwork (10-20 vol %) Sharp contact between muddy siltstone and breccia w/qtz + calc v. stopping abruptly at contact. This suggests ① a possible unconformable contact w/ brx postdating veining event, but ② more likely preferential veining of the more competent siltstone. Veined fragments of siltstone in the breccia indicate scouring and fragmentation by the breccia.									
	"						106.79		106.68							
	G6						B-2-Ec mtx: black, non-calc, mod. sil argillite (~70 vol %) fgts: mod calc siltstone/sst 25, A-2-a5	941								
							108.42		108.20							
	G6	14°					A-2-c - bedding shows some soft sediment deformation and offsets due to slaty cleavage which becomes more intense from ~116.5m to 119.40m - silt and sand laminations and bands are weakly to moderately calcareous; argillite component is non-calc. - stratigraphic top is downhole; criteria used - scouring ripple cross-laminations		109.0							
110	G6	15°						88.5	DG 8582	565	85	760	0.6	41	1.9	930
									111.0							
									111.25							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-64 CLAIM: JASON 153 PROPERTY: JASON.

m SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm % Pb	ppm % Zn	ppm % Ba	ppm oz/ton Ag	ppm Cu	ppm Fe	ppm Mn
	G6	top					stratigraphic top downhole criteria scouring A-2-c ditto	73.2	113.08							
115	G7	15° 20°					115.52 A-2-b - rock is still laminated but lacks the thicker cross-laminated sand beds									
	G6	16°					116.60 A-2-c - soft sediment deformation and offset by slaty cleavage is more intense than previous A-2-c interval									
	G7	19° 15°					119.40 A-2-b - similar to the previous A-2-b interval									
120	G5 & G7	17° 20°					121.08 A-2-c (local sst beds) - similar to previous intervals with bedding locally highly contorted by soft sediment deformation and slaty cleavage. - local sst beds up to 35cm thick - sst beds and laminae - weakly - mod calcareous									
		20°							124.66							
125		22°					sst bed	96.7								
									126.0							
								95.0	DC 8583	41	12	760	0.2	23	1.2	450

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-64 CLAIM: JASON 153 PROPERTY: JASON

COMMENTS:

SECTION m	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm % Pb	ppm % Zn	ppm % Ba	ppm oz/ton Ag	ppm Cu	% Fe
	G7	30					A-2-c (local sst beds) ditto		DG-8583 cont'd 128.0	41	12	760	0.2	23	1.2
								85.2	128.93						
130	G7						130.25 B-2-Eb - described below								
	G3						131.17 - boulder of calcareous sst/slst - massive f.-c. gr. sst, slightly-mod calc sst and minor slst. - often mottled in texture. - relatively abundant qtz-calc. veins (crystalline) which cut a ~90° to c.a (~5 vol %) - possibly some fossil debris but if so it is poorly preserved. - locally some silty A-1 argillite which may be apart of the bra. matrix.								
	G5						133.20 silty A-1 w/ local highly contorted sand laminae								
135	G4						135.20								
	G7 w/ G3 fgts						136.34 B-2-Eb (cont'd) - mtx70 - primarily black A-1 argillite, with locally A-2-b,c + sst from ~140m to 144.5m; matrix, where it has a texture is highly contorted, slumped and folded. - fgts - calcareous siltstone/sst 22 (massive and/or laminated) fossiliferous limestone 6 silicified & calcareous fossil debris 2 - fossiliferous limestone contains calcareous and often silica replaced crinoids, corals, and possibly brachiopods - at 156.33m occurs a 10cm. fgt of fossiliferous limestone containing a rugose coral w/ the center replaced by galena.								
140	G5														

continued on next page

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-64 CLAIM: JASON 153 PROPERTY: JASON PAGE No. 9 of 13

m SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
145	G5 G7 w/ G3 G4 fgts						B-2-Eb ditto -fgts up to 35cm occur but most are from 1-10 cm. in size -from 141.48m to 147.53m, very few fgts occur but matrix is highly slumped and folded Inference of this unit is that it is a debris flow w/ a local provenance of all the fgts (no clast fragments)								
150	"						area in which bedding appears ⊥ to c.a. possibly fold nose which changes top direction								
155	"		Galena in coral				156.33 fgt of fossiliferous lst w/ rugose coral w/ galena replacing center of coral								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-64 CLAIM: JASON 153 PROPERTY: JASON PAGE No. 10 of 13

COMMENTS: Grain size scale for interval 161.80-167.68 meters
N.B.
——— matrix grain size
– – – – fragment grain size

GH | ST | VF | F | M | C | VC | G | Peb

SECTION m	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm % Pb	ppm % Zn	ppm % Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
	G7															
	G9	68°	Qtz + pyl gal		shear		qtz veining in shear across 10cm + py + minor galena; B-2 brx cuts across underlying strata indicating stratigraphical top is uphole									
							158.70 Alternating Black & Grey Mudstone - massive, but well-bedded, non-silicified, non-calcareous carbonaceous - alternating bands or beds of black & grey mudstone may be in sharp contact or may be more gradational, or may be somewhat mixed suggesting turbulence during deposition. - <1 vol % py & po; py. occurs as euhedral crystals & occasionally twinned "iron crosses" which occur in aggregates; the po occurs w/ pyrite as rounded nodules up to 1.5cm in diameter - some of the thinner beds appear almost rhythmic in nature									
160		40°	Po + Po, Po, Po					77.5	160.02							
		42°	Po				161.80 interval consisting of 5 cycles but much thinner more poorly defined. Individual cycles may not have all three facies present or they may be poorly developed		162.46							
		tops					163.35 slaty cleavage offsets bdg and creates suture-like appearance. This rhythmic interval is of uncertain origin.		163.0							
							FINING UPWARDS: 164.89 homogenous f.g. sst w/ occasional gran-f. pebbles of cherty argillite. Shows dewatering structures, poss dish structures ??	100.0	DG-8584	32	32	720	0.2	27	-	470
165		48°	Po, Py						165.0							
							166.15 cherty argillite fragments (rip up clasts - later rounded & silicified) - also some 2° py. in the fgts. in v.f.-f.gr. sst matrix w/ well developed stylolites		165.81							
		25°						100.0								
	G1 & G3	40°					167.68 A-2-b (w/ SS-1-m,c interbeds common) - black, non-slightly siliceous argillite interbedded w/ light grey bands and beds of variable thickness of cherty sst. (thickness from 2mm to ~10cms) - rock appears like an A-3 type rock w/o cross laminations	97.4	168.55							
170	altns						- the cherty sst. layers are homogenous, massive, w/ small (~.2mm) light colored "grains" in a grey silica mtx. They constitute ~30 vol % of rock. - bedding is discontinuous and disturbed by small scale soft sed deformation, pressure solution processes & sl cleavage		170.0							
		45°	Qtz sid					97.0	DG-8585	55	32	720	0.2	15	-	820
									172.0							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-64 CLAIM: JASON 153 PROPERTY: JASON

COMMENTS:

SECTION m	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
	G7 & G3	33/					ditto (A-2-b w/SS-1-m,c interbeds common)		172.0						
								95.7							
	altn														
175		42°							174.65						
	"	60°													
		50°													
		55°													
180	G7						180.07								
		12°													
			qtz, Sid				rhythmic banding in argillite								
	G7														
		10°													
185															
	G7														

A-2-b

- genetically related to the A-3 type rock above but w/much less sand component.
- most of the sand occurs as discontinuous lt grey laminae and bands from 1mm to 5mm in thickness
- occasional thicker beds occur up to 2-3 cm thick
- as previously, the sst bands are disturbed by soft sediment deformation, pressure solution, and slaty cleavage
- locally the argillitic component exhibits a weak rhythmic habit as occurs at ~ 164m
- <1 vol % py. occurs as disseminations and as thin coatings on fractures
- minor qtz + siderite veins ± pyrite and sphalerite

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-64 CLAIM: JASON 153 PROPERTY: JASON PAGE No. 12 of 13

m SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb ppm %	Zn ppm %	Ba ppm %	Ag ppm oz/ton	Cu ppm	Fe %	Mn ppm
	G7		Qtz				A-2-b ditto.	187.45 69.5 188.73	189.0							
130	"	10°					from ~ 191 m, bedding approximately ⊥ bedding w/ minor local undulations	97.1 191.84	DG-8586 191.0	22	41	980	0.2	32	-	320
	"		Sp, Sph				Siderite Vein + Sph.	91.4 193.24								
135	"															
	"	15°														
200	G7		Qtz, Sp, Py				qtz vein + sp. + py									

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-64 CLAIM: JASON 153 PROPERTY: JASON PAGE No. 13 of 13

m SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
	G7						A-2-b								
	"						ditto								
205	G7														
							206.96 END OF HOLE								
210															

090712

CORDILLERAN ENGINEERING —— DIAMOND DRILL RECORD

HOLE No. DDH-80-65 | CLAIM Jason 153 | PROPERTY Jason | PAGE No. 1 of 16

CORE SIZE HQ | AZIMUTH Collar 235m 210° 214°(?) | ELEV. COLLAR 1411.0m | LOGGED BY P.C. Hubacheck

ANGLE of HOLE Collar 235m -71° -62° | TOTAL DEPTH 238.05m | NORTHING 7004,735.92 | DATE BEGUN Sep. 2/80 FINISHED Sep. 13/80

SECTION | % RECOVERY 87.46 | EASTING 433,385.54 | CORE STORED AT Jason Property

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | SCALE: 1:100 | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

DESCRIPTIVE GEOLOGY

Sperry Sun Tests

Depth(m)	Azimuth	*	Inclination
46.02	212°	212°	66.5
61.26	208°	212°	66.5
76.50	218.5°	211°	67.0
91.74	216°	211°	67.0
106.98	215°	211°	66.0
122.22	205°	211°	66.0
137.46	214°	210°	66.5
152.70	215°	210°	65.0
167.94	213°	210°	64.5
183.18	204°	210°	64.5
198.42	204.5	209°	63.0
213.66	206.5	209°	62.5
225.86	206.5	209°	62.5
235.00	214.0	209°	62.0

* Note: The Sperry Sun Compass was sticking for several readings. Should assume constant Azimuth of 210°.

* The azimuth readings have been averaged to reduce the overall error as much as possible

Office of the Supervising Mining Recorder
DEC 9 1980
WHITEHORSE
Yukon Territory

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-65 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 2 of 16

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED

SAMPLE INTERVAL & NUMBER

ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

Overburden

29.87

A-1 massive black Argillite - highly graphitic along fracture slips - fissility is poorly developed. bluish white oxidation staining common on smooth slip surfaces.

Note: This particular lithology bears striking resemblance to the bluish grey weathering, carbonaceous argillites overlying the brownish buff weathering shale member of the Upper Road River Group

- local A-2 (calcareous in part) beds ($10^{cm}_{\pm}$, upto $30^{cm}_{\pm}$) intercalated, occasionally,

36.38

Qz_3-(Py) veinlets fair amount str. sideritization.

38.10

- strong silicification from 29.87m to $50^{m}_{\pm}$. After $50^{m}_{\pm}$ + hole bottom mostly moderate, local weak, silicification, except noted.

41.56 Qz vlt bundle (20cm)

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-65 CLAIM: Jason 1 to 3 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
		60°			Δ		43.9 A-1 Massive Argillites - carbonaceous on broken surfaces - highly graphitic on cleavage - surfaces.								
			Py 1 to 3 %		Δ		Py Cubes Commonly seen (<2mm across, 1~3 vol %)								
		70°			Δ										
45					Δ										
					Δ		46.02								
50															
55		38°					55.55m B-1-Ec Arg mtx 30% Arg fgt's 70% mtx - mud + platy fgt's .5-1cm fgt's - angular 5-10 cm. common, 20cm max.								
			qtz fph				Sp blebs scattered in 5cm width								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-65 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 4 of 16

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
			Py Sph				57.4 Sp Vein (2mm) cut Qz Vein. A-1 • faint planar laminations discernable						
		58°											
60													
		55°											
		50°											
		45°											
		37°	Qz Vlt				Qz hairline veinlets Some (<1 vol%)						
65		45°											
							67.67 poor recovery 68.58	76.1	67.67				
								21.98	68.58				
								55.7	69.19				
70								45.0	70.10				
		33° Tops											

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-65 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 5 of 16

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
			ptz				A-1a - bedding laminations very distinct - light coloured bands predominate near base of .5 cm bands.								
75		30°													
		28° 29°													
80		26° 28°													
		12°													
		10°													
		0°					83.52								
85							Severely broken core - fracture cleavage parallel to bedding. parting planes are nearly parallel to the core axis.								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-65 CLAIM: Jason 1 & 3 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
90	G6	17°			S		A-1a severely fractured core interval 89.61 92.05 — — — — — B-1-mi? intraformational breccia - clast supported fgt's consist of light/dark laminated Arg. displaying mosaic texture as bedding can be traced through. - occasional intervals of angular rotated clasts 94.40 — — — — — (A-2 rock, locally disturbed)								
95	G3						A-1 black carbonaceous Argillite - hairline laminations apparent • highly graphitic along cleavage surfaces. siliceous where graphite content is highest • slaty cleavage extensive.								
	G7														
100	G3														

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-65 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 7 of 16

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
	G7	/23°			△ △		Ditto (A-1)								
	G8						Py common. • 103.3m to 135m. Py cubes (<2mm max 6mm across), blebs, patches (max. 6cm ϕ) scattered mostly 1-3 vol%, locally up to 5vol% in 0.5m interval								
105	"														
	"														
	G9														
	"		Q Sid		△ △										
	"														
	G7-8														
							109.57								
110	G7						A-1-a Carbonaceous with fine s.s (6cm) intercalated, highly contorted.								
	G9 G3 alth.				△ △ △ △		• The irregular bedding contacts appear to be a soft sediment deformation loading feature affected by strong slaty cleavage. Locally B-1-L-like texture								
				△ △			highly contorted B-1-L like								
115							115.37								
	G3						fine s.s, calcareous resemble to f.s.s.								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-65 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 8 of 16

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
	G7		Qz Sid	S			117.02m highly sheared (Some A-2) A-1 (local A-2)								
120	G4		py qtz				119.42 A-2 • Calcareous • Qz-Siderite vein and vlt extensive (≈ 5~7 Vol% max. 3.7cm width) • sideritization: moderate • Slightly contorted, lowerpart B-1-L like.								
	"		qtz												
	"		Qz Sid												
125			"				125.27 A-1a: bk carbonaceous Argillites with intercalations of wispy, lenticular bands, occasional nodular chert common - this interval distinguished by frequent qtz + siderite fracture fillings. chert nodules - .5-1cm diameter								
	G7		Sid Qz												
			Sid Qz												
	"		"				- Sid - Qz vlt common (≈ 7 Vol% ±)								
			Qz Sid				Qz Sid vlt ≈ 20 vol%.								
130	"	21°	"												
	"		"												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-65 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 9 of 16

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb ppm	Zn ppm	Ba ppm	Ag ppm	Cu ppm	Fe %	Mn ppm
							Ditto (A-1-a)									
135	G7						highly contorted few coarsess. beds (1 cm) 135.33									
	G8						A-2									
	G9						• locally yellowish G-5 colored calcareous beds intercalated (up to 1.3 m thick)									
	"															
	G5						yellowish G-5 colored rock									
	"								139.60							
140	G7	/20°						68.9	PH8755	3000	67	780	3.6	47	1.90	1200
	"								140.82							
	"							96.7	141.00							
	G5						yellowish G-5 colored rock		141.43							
	G8						fine py dissem. in bedding plane	81.2	PH8756	260	61	830	0.5	59	1.90	1200
	"								142.65							
	"							82.8	143.00							
	"								143.87							
145	"								PH8757	990	44	890	1.9	85	2.05	800
	"								145.00							
	"						(Same as above) more intense quartz + siderite veining (stronger alteration - pyrite + pyrrhotite associated with siderite/qtz fracture fillings + veining	95.4	PH8758	1900	340	1460	3.1	465	1.65	680
	"								146.91							
									147.00							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-65 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 10 of 16

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

(Same as above)

lighter coloured zones are moderately calcareous with irregular, blotchy zones of "sideritized" carbonaceous arg. Siderite appears to show replacement textures along bedding horizons producing a mottled

--> 5cm band of fn grained galena in matrix filling fractures

- at 149.5m, Gn, Sp bands cut to 5cm width (±20 vol %) in 18cm interval.
- 149.8m ~ 156.7m sid - Q veins or veinlets extensive (10 ~ 15 vol %)

→ pyrite and pyrrhotite occur as intergrowths within pyritic isometric crystallography or massively in vein fillings.

- 152m ~ 156.7m sideritization strong Py cube scattered (1 vol % ±) up 3mm across)

157.28

A-1a

- contorted.

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
		PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM Mn
81.2	147.00 PH8759	2900	140	890	6.8	164	1.55	640
75.0	149.00							
96.7	PH8760	15500	190	960	21.	103	2.10	780
79.4	151.00							
79.1	PH8761	520	940	730	1.4	67	2.35	1800
97.8	153.00 PH8762	114	192	390	0.2	265	5.00	3300
99.7	155.00 PH8763	44	69	270	0.2	142	4.60	3900
	157.28							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-65 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 11 of 16

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
			qtz sid				Very strong Sideritization								
	G4 ~ G5														
165							Strong Sideritization								
	G6?														
170	G4 ~ G5		Sid Py				Very Strong Sideritization (Wholly sideritized in most of the part) Py 3 vol %								
	some G9		Sid				almost whole part is sideritized.								
	"														
	"	170°	Sid												
175	"		"												
	"	220°	"												

A-2 (local A-1-a)

- Intense sideritization, large part of rock is wholly (at least more than 60%) Sideritized, especially from 162m ~ 182.6m±,
- several places strong contortion showing B-1-L-like texture
- siderite vein ~ hairline vlt. commonly scattered in whole unit.

str. contortion B-1-L like.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80 - 65 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 12 of 16

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
			sid vlt				Ditto (A-2 local A-1-a)								
			"				highly contorted B-1-L like (Mtx. carb. sh.)								
			"												
180			qtz sid												
			sid (Qz) vlt				fairly contorted								
			"				182.6m B-3-Ec								
	S&P		"				B-1-L like less mtx. Mtx: Pebbly mudstone (carb sh. matrix with various degree sideritized Arg ~ silty arg. fgt, <5mm ϕ common few 1cm ϕ±; 5~25 vol% varied)								
185			"				Fgt: Arg 50- (5~7cm ϕ in general, few 15cm ~ 23cm ϕ)								
			"												
		36°	"				187.08								
							A-2a (non-carbonaceous)								
		42°					• silt ~ ss lamination: < 2~3mm thick common, rare 5mm thick, ~1 vol%, found more in upper part								
190							• silty ~ siliceous beds (1~3cm) occasionaly intercalated.								
		36°	qtz sid												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-65 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 13 of 16

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

Ditto (A-2-a)

→ pyrrhotite intergrowths within py cubes confined to light coloured silty siliceous beds (1~2 cm, one 8 cm thick bed)

• slaty cleavage nearly parallel to bedding plane.

decreasing silt – ss lamination to <1 vol %

increasing carbon content

silt ss lamination increasing to 5 vol % or more (A-2-b like)

204.12 – 20cm fault (?) gauge

A-2 (local A-1-a)
• highly broken, some texture preserved
• intense Qz(Srd) veins stockwork.
• fairly contorted.

% CORE RECOVERED		SAMPLE INTERVAL & NUMBER	ASSAYS						
			PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM Mn
	199.95								
90.2									
	201.17	201.00							
99.0		PH8764	36	34	1060	0.9	95	4.0	910
		203.00							
	204.22	PH8765	148	32	950	0.8	134	2.70	545
83.6		205.00							
	206.35	PH8766	114	9	940	0.4	84	1.95	275
100.7		207.00							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80 - 65 CLAIM: Jason 153 PROPERTY: Jason PAGE No. 14 of 16

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS PPM Pb	PPM Zn	PPM Ba	PPM Ag	PPM Cu	% Fe	PPM Mn
	G6-7		qtz Sid				Ditto (A-2. local A-1-a)	100.7	209.00							
			"					207.87 54.4	PH8767	124	56	850	0.4	91	3.10	1000
	"		"					208.79	209.00							
210	"		Qz Qz					79.5	PH8768	220	87	810	0.4	92	2.20	1300
	"						A-2-c local A-3	210.01 100.0								
	"						211.10 sand banded Argillites - bands commonly 2-4 mm. - thickest bands 1-1.5 cm. - bands are commonly crenulated - smooth talcy feel on cleavage surfaces	210.62 73.0	211.00							
	G6 G3						212.0 SS-1-m bed 15cm+	212.14	PH8769	11	95	1380	0.2	66	2.25	140
							213.00 clay + Arg fgt	100.0	213.00							
	G6			f10	clay		213.40 fault gauge clay only	213.36 92.6								
							214.30 clay + Arg fgt	214.58								
215	G6-7 G3	35°					214.60	89.3								
	"		qtz				216.55 Qz vein 20 cm (some siderite)	215.80 84.8	216.00 PH8770	66	164	1160	0.2	47	3.55	520
	"		Qz vlt				Qz hairline vlt remarkable (10 vol% +)	218.24 101.1	218.00 PH8771	4	70	1180	0.2	17	2.35	180
220	"							220.07 94.5	220.00 PH8772	59	445	1110	0.3	96	3.55	335
									221.00							

This sequence is diagnostic of Lower Canal strata based on the following criteria

1) non-carbonaceous
2) non-calcareous
3) dramatic increase in fine clastics (sand/silt)
4) higher flow regime - planar laminated silts and fn sand laminae.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 65 | CLAIM: | PROPERTY: | PAGE No. 15 of 16

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							Ditto (A-2-c local A-3)	94.5							
							221.89								
225						S									
	GL-7 & 63	0°													
230			qtz sph												
		20°													
235															

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-65 CLAIM: Jason 153 PROPERTY: Jason

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
	G2	20°					237.05m — SS-1-f - undulatory contact with A-2b parallel to drill hole								
							238.05m — End of Hole								
240															

090712

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. D.D.H. 80-66 | CLAIM JASON 151 | PROPERTY JASON | PAGE No. 1 of 26

CORE SIZE HQ collar – 254.20m NQ 254.20-384.35m | AZIMUTH collar 384.35m 031° 030° | ELEV. COLLAR 1346.8m | LOGGED BY D.R. GOOD

ANGLE of HOLE collar 384.35m -55° -42° | TOTAL DEPTH 384.35m | NORTHING 7,004,394.84 | DATE BEGUN SEPT. 15/80 FINISHED SEPT. 29/80

SECTION | % RECOVERY 90.76 | EASTING 433,525.68 | CORE STORED AT JASON PROPERTY

COMMENTS: SCALE:

3 SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag

SPERRY SUN READINGS

DEPTH	AZIMUTH	INCLINATION
collar	031°	-55.0°
60.96m	034°	-55.5°
289.86	034°	-54.0°
335.58	034	-54.0°
384.35	030°	-42.0°

OVERBURDEN

10.97

A-1 (local A-1-a)

Office of the Supervising Mining Recorder DEC 9 1980 WHITEHORSE Yukon Territory

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON

COMMENTS:
N.B. The A-1 unit seen here was presumably eroded by the B-2 breccia in D.D.H. 80-64.

SECTION m	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm % Pb	ppm % Zn	ppm % Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
	G7	42°					ditto (A-1, local A-1-a)									
							12.87 - bioturbation and worm tubes									
	"	31°	Pyrite Sprinkles				-black, massive to weakly laminated argillite.									
							-non-calcareous; non to weakly carbonaceous									
							-near top of hole, rust weathering on surface									
15	G7	36°					-locally light compositional laminae and bands up to 2 cm. thick; the thicker bands show bioturbation and preserved worm tubes which indicate that stratigraphical top is up hole									
	local G4 sandy	32°	Qtz, Ser, Sph				16.35 - qtz, ser, sph lamination; 16.60 - alternating blk & lt. gry bands with bioturbation and worm tubes; 17.15	-pyrite occurs throughout the interval (~1 vol %) in a number of ways: ① as organized, disseminated, f.gr. sprinkles along bedding, ② as more randomly organized disseminated blebs which are crudely arranged ⫫ bedding, ③ as random aggregates or nodules from 2mm to 2 cm in size, ④ with qtz and sericite in hairline to 1 cm thick laminations ⫫ bedding								
		41°	Py, Po, Sp				18.10 - py, po, + minor sp lam		18.59							
		36°														
	G7	40°					19.41 - bioturbation, worm tubes	The inference of this pyrite is that it was deposited as primary pyrite with later reorganization and migration possibly due to pressure - compaction.	92.6							
20									20.00							
	"	43°							21.03	DG-8660	49	161	750	0.2	35	2.58	288
							21.60 - worm tubes	Fine coatings of pyrite occur on some fracts, others are dry.	100.0 21.64							
									22.00							
		44°					-pyrrhotite occurs with pyrite in the nodules and in the laminations; it always occurs in the core with pyrite concentrated at the margins (overall < 1 vol %)	100.0								
	G7	52°					-minor sphalerite occurs in the qtz, sericite ± pyrite, pyrrhotite laminations	24.38								
25							-minor fine siderite ± pyrite vlts occur locally as wavy networks (somewhat similar to "spaghetti" siderite in DDH-79-50, but much less intense)									
		46°					26.05 - gradational contact									
	G5						A-2-like Mudstone (laminated to banded)									
							-alternating black and grey lams & bands of mudstone									

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON

m SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
	G5	31°					- the light grey bands incr. towards the graded cycles below and are locally bioturbated.								
							★ N.B. Correlates with 80-64 158.70m to 161.80								
	G7 & G4 Alta	29°					Road River Graded Cycles								
30		34°	Qtz V				- a similar sequence as occurs in 80-64 consisting of rounded, cherty black frgts in a sand mtx; sandstones showing evidence of bioturbation and/or water escape textures; and graded "rhythmites". The cycles are not as well developed as in 80-64, but 5 cycles are present.								
		41°			Δ Δ										
							★ N.B. Correlates with 80-64 161.80m to 167.68m								
	G7 w/ G3 bands	39°	Qtz V		Δ Δ		A-2-b (with SS-1-m,c interbeds common)								
		50°					- black argillite with light grey siliceous SS-1-m,c layers from 1mm thick laminations up to a maximum bed thickness of 38cms.								
35							- most sandbands are in the order of 1-3cms thick								
		39°					- most sand beds are from 10-20cms thick and thicken & increase in number up section								
	"	54°					- no cross-laminations occur; distinguishing this from a typical A-2-c or A-3 rock; all sand bands are massive								
							- some of the sand bands are weakly calcareous near the top of the section, but decreases down section								
	"	48°	Qtz Cal V		Δ Δ Δ		- bedding is highly disturbed due to: ① soft sediment deformation (load structures), ② pressure solution/water escape processes (stylolites), ③ slaty cleavage, ④ local bioturbation, and ⑤ minor turbulence.								
40		43°	Qtz Cal V				- locally veined by qtz-calcite ± siderite veins (<1%)								
	"	52°					- pyrite is very minor (<1 vol%); occurs as diss. in some sand bands; and in the veins.								
							- minor pyrrhotite occurs w/pyrite in the veins, and a trace of galena with po was observed in one vein.								



CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON

3 SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
							ditto (A-2-bw/SS-1-mc interbeds)									
							sand bed									
							sand bed									
45							45.08 - vein of qtz, sd, Py, Po, trace gn									
							sand bed									
							sand bed									
50							52.15 — interval of sand laminated and sand banded argillite in which no sand beds occur	51.82								
								99.0								
55							54.95	54.86	55.00							
								99.3	DG-8661	26	66	850	0.2	19	3.50	311
									57.00							

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: DESCRIPTIVE GEOLOGY | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

ditto (A-2-b w/ SS-1-m,c interbeds)

% CORE RECOVERED: 99.3

58.06

62.18

sand bands and sand beds more common, making up approximately 60 vol % of rock

67.87

70.36 – 71.02 sand beds w/ thin intercalated argillite bands

71.78 – qtz & siderite veining associated w/ a 2cm shear

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		

ditto (A-2-b w/ ss-1-m,c interbeds common)

72.85 – 73.87: sand beds with thin intercalated argillite bands

A-2-b (w/ occasional ss-1,2 beds)

- still good sand banded argillite but sand bands are generally thinner and fewer in number.
- med grey silt laminations and bands from 1mm to ~15cm occur throughout (~5-10 vol%)
- contorted nature of the bedding continues but is generally less intense than before. Silt sediment deformation is the most important process w/ pressure solution processes and slaty cleavage less important. The more intense deformation appears associated with the sand bands & local sand beds.
- most of the sand bands are massive f-m gr but some are parallel laminated and some show grading
- scour marks, load structures, and grading indicate stratigraphical tops are still uphole.

76.55 – 77.67: greater quantity of sand bands

gouge

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON PAGE No. 7 of 26

COMMENTS:

SECTION m	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm % Pb	ppm % Zn	ppm % Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
	G7 w/ G3 & G5 lams	46°					ditto (A-2-b w/occasional SS-1,2 beds)									
		48°	Qtz S.A.Py													
90		54°														
	"	44°	Qtz Sch													
		49°	Qtz Py													
	G7 & G3	42°	Qtz Py Qtz				93.29 – 94.14 intercalated sand and argillite beds sand beds constitute ~ 50 vol %									
95	G7 w/ G3 & G5 lams	52°							95.0							
		55°						<5 vol.% sand lams & bands	DG-9795	15	61	1020	0.3	25	2.90	230
		42°														
	"															
100		34°		shear					100.0							
	"	50°														
	G4		Qtz V				101.19 – 101.94 sand w/ minor argillite interbeds; A-2-b (w/ SS-1-f-c bands and beds common)									

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON

COMMENTS:

SECTION (m)	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
	G7 w/ G3 bands	40°	Qtz + Sp				102.20 } sand beds w/ 102.50 } arg. interbeds ditto (A-2-b w/ SS-1-f-c bands & beds common) - similar to interval between 31.97 and 73.87 m. with sand bands and beds ranging from 2 mm to 17 cm in width and occasional thinner discontinuous sand laminations. Sand comprises ~ 50 vol % of rock. - sand beds are quite contorted &/or discontinuous due to soft sediment deformation and pressure-sol'n processes - qtz-sid. veins; + pyrite ± sph. in veins or "squeezed" along fractures								
		44°													
105	"	54°	Qtz Sid V.												
		57°					105.93								
	G7	82°	Qtz Sid V				A-2-a - sand and occasional silt laminations and bands from 1mm to 1cm in thickness. - highly contorted bedding due to soft sediment def. and slaty cleavage - bedding is highly variable, mostly is close to parallel to core axis.								
	"	11°/ 13°/	Py on fract												
	"	2°/ 20°/													
110															
	G7						110.81								
	G7 w/ G3 & G4 lams & bands	20°	Qtz Sid, Py Qtz Sid V				111.50 } sand beds w/ minor 111.80 } argillite interbeds A-2-b (w/ occasional SS-1-f-c beds) - similar to interval between 73.87 and 101.19 m with sand beds up to 17 cm thick but mostly from 2mm. to 2cms thick - bedding continues to be deformed but is less so than the previous interval - minor qtz ± siderite ± sphalerite (Indian Red) veins								
		29°													
		68°													
115		55°													
	"	49°													

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON

m SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							ditto (A-2-b w/occasional ss-1-f-c beds)								
120															
							121.54 — — — — — — — —								
							A-2-b (w/ss-1-m,c interbeds common) - similar to interval between 31.97 and 73.87 m. with sand bands and beds ranging from 2mm to 32cms in thickness and occasional thinner, discontinuous sand laminations. Sand comprises ~ 40 vol. % of rock - the sand beds and bands are highly distorted as previously due to soft sediment deformation, stylolite formation and slaty cleavage. - stratigraphic tops are still uphole. Best criteria are load structures								
125															
130															

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
m	G7 & G3	60°					ditto (A-2-b w/ SS-1-m,c bands & beds common)								
		42°													
135	G7 w/ G3 lams	48°					134.95 only occasional sand bands								
		45°					137.66								
	G7 G3	45°	Qtz, Aragonite, Py, Cpy, Gn				138.17 sand beds w/ local argillite interbeds								
							133.03 ← Qtz, aragonite, pyrite + trace cpy & gn								
	G7 w G3 beds & bands	59°					139.43								
140		52°					A-2-b (w/occasional SS-1,2-m,c interbeds)								
		49°	Qtz, Sd, Py, V												
	"	45°					143.05 sand bands w/ argillite interbeds 143.79								
145		56°													
	"	47°													

A-2-b (w/occasional SS-1,2-m,c interbeds)

- primarily A-2-b with sand and silt bands and laminations from 1mm to 1cm and occasional SS-1,2 sand beds from ~2cm to a maximum of 38cm thick.
- stratigraphic tops are still uphole; main criteria are load structures
- bedding is less distorted than previously but locally, especially near the sand beds, soft sediment deformation is better developed; minor stylolite development and slaty cleavage also occurs.
- minor small argillite rip-up clasts occur at the base of some of the sandstone beds
- pyrite occurs as diss. aggregates in sand bands (<1vol%) and with the qtz-siderite veins which occur occasionally throughout the interval.

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON

3 SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb ppm	Zn ppm	Ba ppm	Ag ppm oz/ton	Cu ppm	Fe %	Mn ppm
							ditto (A-2-b w/ occasional ss-1,2-m,c interbeds)									
150	G7 w/ G3 bands & bands	48° 43° 43°							150.0m							
		41°					~10 vol % sand lams & bands		DG-9796	45	76	1060	0.2	52	3.70	315
	"	41°					153.69 - two argillite rip-up clasts									
155		42°							155.0m							
	"	43°														
		45°					157.70 sand bands w/ 157.95 argillite interbeds									
		37°														
160	"	40°														
		40°														

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON (5) PROPERTY: JASON PAGE No. 12 of 26

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
m	G7 w G3 bnds & beds	39°					ditto (A-2-b w/ occasional SS-1,2-m,c interbeds)								
		36°													
165	G3 w G7	48°	Qtz Sid Py Gal				164.67 – 166.15 sand beds w/ argillite interbeds — minor pyrite & galena in a qtz, siderite vein.								
	G7 w G3 bnds & beds	43°													
		49°													
170		41°													
		44°													
	"	44°													
		50°					174.11 – 176.55 interval of more frequent sand bands								
175	G7 & G3	40°	Qtz Py Argal; Qtz Py												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON PAGE No. 13 of 26

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
m	G7 w/ G3 bands & beds	54°					ditto (A-2-b w/occasional SS-1,2-m,c interbeds)								
		59°													
180		49°													
		59°													
		45°					183.95 } sand bands c/ 184.37 } argillite interbeds								
185	"														
		50°	Qtz Py Vein												
	"	48°													
		40°													
	"		Qtz Sil Py V.												
190		38°													

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON PAGE No. 14 of 26

COMMENTS:

SECTION m	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm ~~%~~ Pb	ppm ~~%~~ Zn	ppm ~~%~~ Ba	ppm ~~oz/ton~~ Ag	ppm Cu	% Fe	ppm Mn
	G7 w/ G3	35°					ditto (A-2-b w/occasional SS-1,2-m,c interbeds)									
		48°														
195	"	40°														
		52°														
	"	39°	Qtz Sd Py, Sph													
		52°														
200	"	59°							200.0							
		46°														
	"	57°					~20vol % sand lams & bands		DG-9797	20	110	1040	0.2	27	3.70	345
		50°														
205	"	46°							205.0							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON PAGE No. 15 of 26

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: % Pb	% Zn	% Ba	oz/ton Ag		
							207.15 ? 207.40 = sand bed ditto (A-2-b w/occasional ss-1,2-m.c interbeds)								

210

215

220

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON PAGE No. 16 of 26

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
m	G7 w/ G3						ditto (A-2-b w/occasional SS-1,2-m,c interbeds)								
		54°													
225	bnds	45°													
	&														
		32°	Qtz Py V												
	beds		Qtz Sid Veins												
		39°					227.61 } sand bed 227.88 }								
	"	41°													
230		41°					230.24 } sand bed 230.63 }								
			Qtz Sid Py				qtz-siderite-py in vuggy vein (crystals)								
		49°													
	"	35°													
		33°	Qtz Sid Py gal Po				qtz-sid-py-po-galena vein								
235	"	41°													
		58°													

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON

COMMENTS:

SECTION (m)	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS: ppm ~~%~~ Pb	ppm ~~%~~ Zn	ppm ~~%~~ Ba	ppm ~~oz/ton~~ Ag	ppm Cu	% Fe	ppm Mn
	G7 w G3 beds & bands	42°					ditto (A-2-b w/occasional SS-1,2-m.c interbeds)		238.0							
		49°														
240	"	47°					~15 vol % silt & sand lams & bands		DG9798	19	126	910	0.2	32	3.80	350
		58°	Qtz Sp V						243.0							
	"	31°	Qtz Py Sp Gnv				244.01 - qtz-siderite vein + pyrite + minor sphalerite & galena 244.23 - qtz-siderite vein + pyrite + minor sphalerite & galena									
245		27°														
	G7 w/ G8 gouge	21°					245.40 Fault Zone zone of intense deformation in which the sand bands are highly contorted and a well developed network of qtz-sericite + pyrite ± sp. veinlets are highly deformed and discontinuous. The movement along the fault has created "micro" tension gashes filled w/ qtz sericite. Greasy on fract. surfaces	99.5%								
				F(10)	gouge		247.11 fault gouge consisting primarily of clay, very small argillite fragments, and highly fractured argillite w/abundant fragmented quartz and pyrite.	92.5%								
		32°	Qtz Py				249.09									
250	"	35°					broken and sheared A-2-b argillite w/sand bands. Unsilic. Greasy on fracture surfaces. Moderately well developed network of qtz + pyrite veinlets is most intense from 249.09 to ~250m. C.A.B remain consistent w/angles outside of fault zone	92.6%								
								95.1%								
								64.8%								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON PAGE No. 18 of 26

COMMENTS:

REDUCED FROM HQ to NQ at 254.20m

SECTION (m)	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag
	G7 w G8 gouge		Qtz Py Sp.	F(10)	gouge		252.23 ditto (Fault Zone) fault gouge and highly sheared A-2-c argillite + minor quartz veining + pyrite in gouge	75.1%					
							253.43 highly broken rock consisting of A-2-c argillite at the top and A-2-a and A-2-b at the bottom. Minor sphalerite in a qtz vein near top of interval	26.1%					
255	G7 w G4 & G5 lam	26°	Qtz				255.12 A-2-a	57.1%					
			Qtz				-primarily fine sand-silt bands and laminations generally from <1mm to 1cm in thickness, very occasional fine grained sand bands up to 5cm thick which are often highly veined & replaced by qtz, calcite, siderite, sericite veins which contain some pyrite <5%, and minor sphalerite & galena.						
			Qtz Cal. Py Sph				-some of the sand bands are nearly completely replaced by the vein minerals. An apple green mineral (sericite ?, chlorite ?, saussurite ?) occurs commonly in the veins)						
260	"		Qtz Cal. Py				-bedding highly disturbed by slaty cleavage and variable						
							-thin veinlets of qtz-sericite ± pyrite from <1mm to 2mm occur on cleavage planes						
							-prominent cleavage angle to core axis is ~55°						
	" G7				sheared		263.58 -transitional from above A-2-a with a slight increase in sand bands and silt content						
265							-slaty cleavage still prominent						
	G5	46°					265.40 -overall sand content increases, w/ occasional discrete but deformed sand bands.						
							-from 265.40m to ~266.70m, the argillaceous slt/sst has a texture similar to interval between 31.07m & ~31.50m						
							267.00						

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

267.00 — highly disturbed sand bands const. to ~ 30 vol.%

265.08

A-2-b (local A-1-a, local SS-1-m)

- commonly A-2-b w/ local intervals of A-1-a argillite with occasional silty laminations and local intervals of SS-1-m sand bands & beds up to 5cm in thickness.
- sand bands generally highly disturbed and deformed
- <1% pyrite as fine aggregates occurs w/ the sand bands and as coatings on fracture surfaces

272.0

< 5 vol.% sand & silt lams

DG-9799

274.0

275.36 } interval of common SS-1-m sand bands,
275.74 } sand ~ 50 vol %

277.37 — — — — — — — —

A-2-b

- well laminated silt and sand bands, generally 1mm to 5mm thick, occasionally up to max. 5 cm
- laminations and sand bands disrupted by soft sediment deformation and slaty cleavage
- stratigraphic tops change from uphole to downhole at approximately 300m.
- pyrite cubes, and aggregates occur associated with the sand bands and laminations (<1 vol %)

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
		ppm % Pb	ppm % Zn	ppm % Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
48.9%	DG-9799	11	62	1040	0.2	20	2.90	260
71.3%								
18.0%								
75.4%								
95.1%								

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON PAGE No. 20 of 26

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
	G7 w/	62°	Qtz		shear		ditto (A-2-b)	71.9%							
							-overall sand and silt component is ~ 5vol.%								
	G3	71°						80.4%							
285	G4	75°						91.8%							
	bands	73°													
	lenses							42.3%							
		85°													
								77.0%							
290	"	77°													
		70°						55.4%							
	"	70°						53.3%							
		65°						95.6%							
295	"	57°	Qtz Py												

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON PAGE No. 21 of 26

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED

SAMPLE INTERVAL & NUMBER

ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

ditto (A-2-b)

299.86 – 300.59: bedding is highly contorted and variable, bedding switches from strat uphole to downhole

309.42

A-2-b (w/occasional SS-1-m sand beds)

- similar to previous interval but w/ more common sand bands; sand component ~ 15–20 vol.%
- bedding is highly contorted and offset due to slaty cleavage

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON PAGE No. 22 of 26

m SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb ppm %	Zn ppm %	Ba ppm %	Ag ppm oz/ton	Cu ppm	Fe %	Mn ppm
	G7	50°					ditto (A-2-b w/occasional SS-1-m sand bands) - fractures often coated w/ light green oxide mineral									
	W															
	G3	65°														
315	G4						from 315.05m - 349.61m, bedding is highly variable and contorted		315.0							
	bands															
		20°					10-15 vol % sand & silt lams & bands		DG-3800	25	110	1010	0.4	38	3.70	380
	"															
320		65°							320.0							
	"															
		20°														
	"	15°														
							324.17									
325	G7						A-2-a - very few sand bands to 1cm thick									
	"															

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

ditto (A-2-a)

- becomes slightly more carbonaceous downhole and more graphitic on fracture surfaces and shears

<5 vol % sand bands & lenses

328.0

330.0

334.97

A-2-b (w/occasional ss-1-m sand bands)

- very similar to interval from 309.42 - 324.17 m but with fewer sand bands overall

fractures in this zone are quite graphitic

337.33

A-2-b (w/occasional calcareous sand bands)

- very similar to the above interval, except that 30% of the G3 sand bands are weakly to strongly calcareous
- graphitic on some fracture surfaces
- this interval is likely transitional from non-calcareous sand-banded argillite of Lower Unit 1 into the calcareous A-1 type argillites of Upper Road River.

% CORE RECOVERED

SAMPLE INTERVAL & NUMBER

ASSAYS

SAMPLE INTERVAL & NUMBER	ppm % Pb	ppm % Zn	ppm % Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
DG-9801	31	101	1090	0.2	19	3.25	280

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: JASON

m SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS ppm Pb	ppm Zn	ppm Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
	G7 V				360		ditto (A-2-b w/occasional calcareous sand bands)									
	G3						-transitional from Unit 1 into Road River									
	G4	42°														
345	lams															
	bands	65°														
	"	67°					-5-10 vol% calc sand bands/lams		346.0							
									DG-9802	10	94	1350	0.2	23	280	345
									348.0							
350	"															
							350.69									
	G8						A-1 (Road River)									
	to						-primarily G8 argillite w/ occasional alternating beds of G4-G6 argillite									
	G9						-non-moderately calcareous									
	"						-slaty cleavage is remarkable and often creates a "laminated" texture and overprints bedding									
							-moderately carbonaceous									
355							-qtz ± calcite veinlets occur throughout (≈ 1 vol %)									
	"						-blue oxide coats fractures									

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-66 CLAIM: JASON 151 PROPERTY: Jason PAGE No. 25 of 26

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED | SAMPLE INTERVAL & NUMBER

ASSAYS: ppm Pb (%) | ppm Zn (%) | ppm Ba (%) | ppm Ag (oz/ton) | ppm Cu | % Fe | ppm Mn

357.0

ditto (A-1)

DG-9803 — Pb 60 | Zn 220 | Ba 930 | Ag 1.0 | Cu 147 | Fe 1.70 | Mn 520

359.0

360

360.03 — 20 cm pebbly mudstone w/ non-calc fgts to max 1cm

A-1 (brecciated to form B1-B2)

- G8 A-1 argillite w/ G4 mudstone bands & beds alternating (max. 20 cm) non-mod calcareous
- A-2 argillite alternates w/ above and tends to increase towards the bottom of the hole.
- local G9 carbonaceous siltstone, pebbly mudstone, and calcareous to non-calcareous G3 & G4 ssts occur in the interval
- slaty cleavage is remarkable.
- the interval is brecciated to B-1 / B-2 due to extensive slaty cleavage
- blue oxide coats fracture surfaces
- qtz, calcite ± siderite ± pyrite occur throughout (~1 vol %)
- moderately carbonaceous - locally graphitic on fractures
- pyrite occurs in qtz veins, as disseminations & blebs in the sand beds and as nodules (overall ~1-2 vol %)
- some pyrrhotite occurs in aggregates in the sand beds
- minor pyrobitumen occurs filling fractures at bottom of hole.

365

366.15 - pyritic sand bed pyrite ~ 50 vol %

370

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80 - 66 CLAIM: JASON 151 PROPERTY: Jason PAGE No. 26 of 26

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	COMMENTS: / DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb ppm	Zn ppm	Ba ppm	Ag ppm oz/ton	Cu ppm	Fe %	Mn ppm
							d.Ho A-1/A-2 (brecciated to B1/B2)									
375																
							} calcareous sst bed w/ some sidovitization & disseminated aggregates of pyrite & pyrrhotite									
							pyrrhotite disseminations									
380									3820							
									DG-9804	45	182	890	.05	37	2.00	810
									3820							
							pyrobitumen on fractures									
							384.35 HOLE END									

090712

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-67 | CLAIM JASON 153 | PROPERTY JASON | PAGE No. 1 of 7

CORE SIZE H.Q. | AZIMUTH 030° | ELEV. COLLAR 1374.9 m | LOGGED BY R.SIMPSON

ANGLE of HOLE -50° | TOTAL DEPTH 99.67 m | NORTHING 7004717.10 | DATE BEGUN OCT. 2, 1980 FINISHED OCT. 6, 1980

SECTION | % RECOVERY 80.01 % | EASTING 433152.18 | CORE STORED AT JASON BASE CAMP

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY | COMMENTS: | SCALE: | % CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

DESCRIPTIVE GEOLOGY

SPERRY SUN TESTS

DEPTH	INCLINATION	AZIMUTH
COLLAR	50°	30°
52.43 m	52°	34°
98.15 m	51.5°	30°

Office of the Supervising Mining Recorder
DEC 9 1980
WHITEHORSE
Yukon Territory

10

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-67 CLAIM: JASON 155 PROPERTY: JASON PAGE No. 2 of 7

COMMENTS:

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS % Pb	% Zn	% Ba	oz/ton Ag		
							OVERBURDEN								
	G-5 to G-7						13.72 — A-3 SAND BANDED ARGILLITE WITH LOCAL A-2-C	57.4%							
15		40	QTZ VNT TRAC GL. SPH				- THE LOCAL A-2-C ZONES VARY FROM 30 cm TO 1.5 m. EX. 31.0m - 31.7 m	85.1%							
		60					TRACE GALENA AND SPHLERITE IN A QUARTZ VEIN								
			QTZ VNT				← HIGH POSSIBLITY (70%) THAT THIS IS A FOLD AXIS - MINOR PYRITE IN SAND BANDS - BLEBS <1%	68.7%							
		20													
		30						92.6%							
20		35						105.5%							
		60	SER QTZ				SERICITE + QUARTZ IN VEINLETS	78.1%							
		40	QTZ VNT				BEDDING VARIES BETWEEN 40-55°								
		40						90.2%							
		35°													
25		25					HIGHLY CONTORTED, POSSIBLY THE AXIS OF A FOLD - MINOR SAND BANDS ARE CONTORTED, BROKEN UP, WITH TIGHT FOLDS PRESENT.	114.8%							
			QTZ VNT					88.8%							

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-67 CLAIM: JASON 155 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

% CORE RECOVERED | SAMPLE INTERVAL & NUMBER | ASSAYS: % Pb | % Zn | % Ba | oz/ton Ag

DITTO A-3
WITH LOCAL A-2-C

97.7%

QUARTZ VEIN WITH A THIN ARG BAND (1.5 cm) WITHIN IT.

HIGHLY CONTORTED TO THE POINT OF BEING BRECCIA-LIKE
- SLATEY CLEAVAGE IS WELL DEVELOPED

80.2%

30

35

100.0%

86.6%

← SCOURS INFILLED WITH ARGILLITE

92.9%

SAND BANDS SHOW SIGNS OF MINOR CONTORTIONS - SMALL FOLDS AND LOADING

83.5%

40

75.7%

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-67 CLAIM: JASON 155 PROPERTY: JASON

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

G-5 to G-7

SPHLERITE + GALENA BLEBS IN A QUARTZ VEIN

DITTO A-3

-WITH LOCAL A-2 : C

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER
87.2%	
89.6%	
86.8%	
77.9%	
49.2%	
48.1%	
100.0%	
100.0%	
65.3%	

ASSAYS

% Pb	% Zn	% Ba	oz/ton Ag		

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-67 CLAIM: JASON 155 PROPERTY: JASON

SECTION	COLOR	BEDDING	MINERAL	TEXTURE	FRACTURING	LITHOLOGY	DESCRIPTIVE GEOLOGY	% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS Pb ppm %	Zn ppm %	Ba ppm %	Ag ppm oz/ton	Cu ppm	Fe %	Mn ppm
	G-5 to G-7						A-3 DITTO (WITH LOCAL A-2-c)	92.7%								
60			QTZ				CONTORTED, BEDDING IS PARALLEL TO CORE AXIS	91.5%								
			TRACE PY				POSSIBLE ← FOLD AXIS c									
		45°	QTZ VNT	40° SLATEY CLEAVAGE				100.0%								
65								100.0%								
								83.2%								
		20°	QTZ VNT				- BEDDING HAS BEEN CONTORTED, AND THE LARGER (>0.5 cm) BEDS ARE NOW FRAGMENTAL AND PARALLEL THE CLEAVAGE	90.5%								
70	G-7	30°		25° SLATEY CLEAVAGE			STRONG SLATEY CLEAVAGE		70.71 -							
							70.71 GRADATIONAL CONTACT INTO A-2-c		RS-9295	28	190	2570	0.4	30	3.10	220

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

HOLE No. 80-67 CLAIM: JASON 155 PROPERTY: JASON PAGE No. 6 of 7

SECTION | COLOR | BEDDING | MINERAL | TEXTURE | FRACTURING | LITHOLOGY

COMMENTS:

DESCRIPTIVE GEOLOGY

A-2-c DITTO

74.68 WELL DEVELOPED GOUGE
75.18 OF FAULT ZONE

BEDDING IS CONTORTED WITH C.A.B. ∠'s OF 0-30°

80.50 ORE HORIZON: SIDERITE, QUARTZ MIXTURE WITH 1-3% (UP TO 10% IN ONE 15 cm ZONE) PYRITE AND PYRRHOTITE. QUARTZ IS IN VEINS AND BLEBS (3-6 cm) AND IS SECONDARY TO THE SIDERITE.
GALENA IS DISSEMINATED WITHIN THIS ZONE AND DOES NOT EXCEED 1% OVER ALL.
81.50

A-1
- ALTERED WITH ABUNDANT QUARTZ VEINLETS
- ZONES, OF SIDERITE (RHOMBOHEDRAL CRYSTALS OF 0.5-1.5 mm.)
- HIGHLY CARBONACEOUS, SOOTY

GREEN CHLORITIC ALTERATION ON FRACTURE PLANES

- 2-3 mm. SPHALERITE BAND CLOSELY ASSOCIATED WITH PYRITE VEINS

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
		ppm % Pb	ppm % Zn	ppm % Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
93.9%	73.15							
91.5%	RS-9296	24	80	2550	0.4	27	5.10	220
	74.68 GOUGE							
	75.18							
69.4%	RS-9297	25	144	2440	0.2	26	3.65	190
	76.51							
100.0%	RS-9298	10	100	2320	0.2	30	1.90	430
	77.72							
33.8%	RS-9299	31	70	2850	0.2	24	1.35	420
	79.25							
59.2%	RS-9300	60	100	2480	1.3	102	4.50	3600
	80.50							
	RS-9301	% 1.32	% 0.02	% -	ppm 0.41	% 0.06	% 24.75	ppm -
	80.84 RS-9302	1.20	<0.01	-	0.38	0.06	33.50	-
	81.24 RS-9303	0.22	0.01	-	2.44	0.03	24.70	-
	81.50							
36.6%	RS-9304	460	265	1730	1.1	200	6.60	2150
	82.41							
34.7%	RS-9305	178	9700	1140	1.0	165	8.80	4400
	85.05							
86.9%	RS-9306	6250	18000	700	7.7	2400	5.80	3000
	85.65							
100.0%	RS-9307	180	3100	490	0.9	660	6.70	4150
	86.26							
60.2%	RS-9308	1340	3650	1070	1.4	340	6.75	3000

CORDILLERAN ENGINEERING — DIAMOND DRILL RECORD

HOLE No. 80-67 CLAIM: JASON 155 PROPERTY: JASON PAGE No. 7 of 7

COMMENTS:
SAMPLING: 5 - 2 m SAMPLES ABOVE THE ZONE (GEOCHEM)
3 THROUGH ZONE (ASSAY)
- FOLLOW RUNS TO 90.22 m

DESCRIPTIVE GEOLOGY

A-1 DITTO

PYRITE, PYRRHOTITE AND SPHALERITE IN A ≈ 3 cm. BLEB. WITHIN A ZONE OF SIDERITE CRYSTALS

← 5 cm QUARTZ STOCKWORK

92.20 — B-1-S-m — 92.75

MATRIX 20, CLASTS 80
ARG. CLASTS OF 1-3.0 cm., AVERAGE ~ 1. cm.
- SHOWS EVIDENCE OF CONTORTION AT THE TOP.

A-1 DITTO

INTENSE SIDERITE STOCKWORK VEINING MINOR PYRITE

- SIDERITE ALTERATION: VEINS, ZONES OF CRYSTALS AND DISSEMINATED CRYSTALS PERSIST TO THE BOTTOM OF THE HOLE.

- MINOR QUARTZ VEINING OCCURS THROUGH THIS INTERVAL AS WELL

98.35

99.67

END OF HOLE

% CORE RECOVERED	SAMPLE INTERVAL & NUMBER	ASSAYS						
		ppm Pb	ppm Zn	ppm Ba	ppm oz/ton Ag	ppm Cu	% Fe	ppm Mn
	87.48							
27.0%	RS-9309	675	2150	870	1.2	200	10.00	6500
93.5%	89.00 RS-9310 89.30	340	660	540	0.7	660	10.00	5600
42.6%	RS-9311	265	800	370	0.4	405	9.35	5200
73.3%	89.92 RS-9312 90.22	650	3150	560	1.3	560	10.00	4840
100%	RS-9313	565	820	710	1.0	449	10.00	5200
	92.96							
66.6%	RS-9314	660	380	720	1.4	210	10.00	3970
	94.79							
100.0%	RS-9315	1040	138	520	2.0	240	10.00	4000
100.0%	96.73							
100.0	RS-9316	1360	94	900	2.0	156	10.00	3180
	98.35							
68.3%	RS-9317	6100	870	720	7.2	240	9.90	2620
	99.67							

435,000 434,000 433,000 436,000 437,000 438,000 439,000 440,000

7,004,000 7,003,000 7,002,000 7,001,000 7,000,000 6,999,000

COMINCO CLAIMS NIDD 359 NIDD 361

HUDSON BAY MINING AND SMELTING CO. LTD. T O M C L A I M S

CANOL ROAD

MIKE 1 MIKE 2 MIKE 3 MIKE 4 MIKE 5 MIKE 6 MIKE 7 MIKE 8 MIKE 9 MIKE 10

MAYO MINING DISTRICT

WATSON LAKE MINING DISTRICT

LEGEND

- □ IP 230 DENOTES IRON POST SET WITH TAGGED TRAVERSE NUMBER (McELHANNEY ASSOCIATES)
- □ L.P DENOTES LOCATION POST
- ○ T.H. 233 DENOTES TAGGED TRAVERSE HUB, HUBS ARE 8" SPIKES OR WOODEN HUBS (60 SW, 15 NW) DENOTES GRID LINE LOCATIONS
- ○ D.H. 34 DENOTES DIAMOND DRILL HOLE
- 48 DENOTES PREVIOUSLY SURVEYED LOCATION LINE POINT NUMBER (HOSFORD, IMPEY & WELTER LIMITED)
- ⊛ HIW 1, HIW 6 DENOTES CONTROL STATIONS
- Fr. DENOTES FRACTIONAL MINERAL CLAIM
- B/L DENOTES BASELINE
- WT. DENOTES WITNESS

D.H. 1 – D.H. 7 DRILLED IN 1975 D.H. 53 – D.H. 67 DRILLED IN 1980

D.H. 8 – D.H. 20 DRILLED IN 1976

D.H. 21 – D.H. 26 DRILLED IN 1977

D.H. 27 – D.H. 43 DRILLED IN 1978

D.H. 44 – D.H. 52 DRILLED IN 1979

EXPIRY YEAR

- 1981
- 1983
- 1984
- 1985
- 1986
- 1987
- 1988
- 1989
- 1991 – 1993
- 1996 – 2001

NOTE: ALL CLAIMS HAVE COMMON EXPIRY DATE OF DEC. 31.

1 2 3 4 5 6 7 8 9 10 11 12 13

OGILVIE JOINT VENTURE

MINERAL CLAIMS

JASON PROPERTY

MACMILLAN PASS AREA (N.T.S. 105O-1)

MAYO AND WATSON LAKE MINING DISTRICTS, YUKON TERRITORY

200 100 0 200 400 600 800

SCALE IN METERS

BY CORDILLERAN ENGINEERING 1418 - 355 BURRARD STREET VANCOUVER, B.C. V6C 2G8

090712

NOVEMBER 1980

PLATE 1