CORDILLERAN ENGINEERING LIMITED

ROTARY DRILL SUMMARY RECORD

JASON PROPERTY: 105-O-1

HOLE No.	GRID LOC.	INCL.	O/B	CLAIM	STARTED	FINISHED	DEPTH
R-77-1	L 5+00SE Δ 11+50SW	-90°	27'	Jason 50	July 5	July 6	45'
R-77-2	L 5+00SE Δ 11+00SW	-90°	21'	Jason 50	July 7	July 7	28'
R-77-3	L 5+00SE Δ 13+50SW	-90°	27'	Jason 50	July 7	July 7	58'
R-77-4	L 5+00SE Δ 16+00SW	-90°	32'	Jason 59	July 8	July 9	42'
R-77-5	L 10+00SE Δ 8+00SW	-90°	0	Jason 21	July 9	July 9	20'
R-77-6	L 10+00SE Δ 8+50SW	-90°	0	Jason 21	July 9	July 9	20'
R-77-7	L 10+00SE Δ 9+00SW	-90°	Abandon Hole	Jason 21	July 9	July 9	Abandon
R-77-8	L 10+00NW Δ 12+00SW	-90°	35'	Jason 52	July 9	July 10	55'
R-77-9	L 10+00NW Δ 13+00SW	-90°	38'	Jason 52	July 10	July 11	55'
R-77-10	L 10+00NW Δ 14+00SW	-90°	42'	Jason 52	July 11	July 11	55'
R-77-11	L 35+00NW Δ 13+00SW	-90°	9'	Jason 53	July 11	July 11	27'
R-77-12	L 35+00NW Δ 15+00SW	-90°	15'	Jason 53	July 11	July 11	37'
R-77-13	L 35+00NW Δ 17+00SW	-90°	17'	Jason 53	July 11	July 11	47'
R-77-14	L 35+00NW Δ 36+00SW	-90°	15'	Jason 126	July 12	July 12	26'
R-77-15	L 35+00NW Δ 38+50SW	-90°	21'	Jason 126	July 12	July 12	31'
R-77-16	L 35+00NW Δ 40+08SW	-90°	18'	Jason 126	July 12	July 12	25'
R-77-17	L 5+00SE Δ 13+20SW	-90°	35'	Jason 59	July 12	July 12	85'
R-77-18	L 10+00SE 30'NWΔ13+00SW	-90°	28'	Jason 57	July 13	July 13	28'
R-77-19	L 5+00NW Δ 4+00NE	-90°	0	Jason 49	July 13	July 13	15'
R-77-20	L 5+00NW Δ 4+50NE	-90°	0	Jason 49	July 13	July 13	15'
R-77-21	L 5+00NW Δ 5+00NE	-90°	0	Jason 49	July 13	July 13	15'
R-77-22	L 5+00NW Δ 5+00NE	-90°	0	Jason 49	July 13	July 13	15'

CORDILLERAN ENGINEERING LIMITED

ROTARY DRILL SUMMARY RECORD

JASON PROPERTY: 105-O-1

HOLE No.	GRID LOC.	INCL.	O/B	CLAIM	STARTED	FINISHED	DEPTH
R-77-23	L 20+00SE Δ 12+00NE	-90°	32'	Jason 23	July 13	July 13	57'
R-77-24	L 20+00SE Δ 14+00NE	-90°	24'	Jason 23	July 14	July 14	60'
R-77-25	L 20+00SE Δ 16+00NE	-90°	32'	Jason 23	July 14	July 14	58'
R-77-26	L 35+00SE Δ 10+00SW	-90°	40'	Jason 56	July 14	July 14	38'
R-77-27	L 35+00SE Δ 6+00SW	-90°	31'	Jason 35	July 14	July 15	45'
R-77-28	L 35+00SE Δ 8+00SW	-90°	22'	Jason 56	July 15	July 15	22'
R-77-29	L 34+20SE Δ 7+80SW	-90°	34'	Jason 56	July 15	July 15	45'
R-77-30	L 19+60SE Δ 17+20SW	-90°	35'	Jason 57	July 16	July 16	46'
R-77-31	L 19+05SE Δ 16+60SW	-90°	15'	Jason 57	July 16	July 16	35'
R-77-32	L 18+40SE Δ 15+95SW	-90°	15'	Jason 57	July 17	July 17	28'
R-77-33	L 5+00SE Δ 15+23SW	-55°	37'	Jason 59	July 17	July 19	122'
R-77-34	L 5+00SE Δ 15+70SW	-90°	20'	Jason 59	July 20	July 20	50'
R-77-35	L 1+70SE Δ 14+32SW	-90°	46'	Jason 50	Aug. 3	Aug. 3	45'
R-77-36	L 1+60SE Δ 17+20SW	-90°	52'	Jason 50	Aug. 2	Aug. 3	47'
R-77-37	L 5+00SE Δ 11+25SW	-90°	26'	Jason 50	Aug. 2	Aug. 2	55'
R-77-38	L 4+92SE Δ 9+00SW	-90°	23'	Jason 50	Aug. 1	Aug. 2	45'
R-77-39	L 5+10SE Δ 7+00SW	-90°	21'	Jason 50	Aug. 1	Aug. 1	45'
R-77-40	L 1+80SE Δ 12+70SW	-90°	45'	Jason 50	Aug. 3	Aug. 3	45'
R-77-41	L 10+00NW Δ 16+00SW	-90°	45'	Jason 52	Aug. 3	Aug. 4	84'
R-77-42	L 4+94NW Δ 17+00SW	-90°	40'	Jason 52	Aug. 4	Aug. 5	50'
R-77-43	L 5+00SE Δ 11+75SW	-55°	31'	Jason 50	Aug. 5	Aug. 7	200'
R-77-44	L 28+90SE Δ 1+80SW	-90°	52'	Jason 55	Aug. 7	Aug. 8	70'

CORDILLERAN ENGINEERING LIMITED

ROTARY DRILL SUMMARY RECORD

JASON PROPERTY: 105-O-1

HOLE No.	GRID LOC.	INCL.	O/B	CLAIM	STARTED	FINISHED	DEPTH
R-77-45	L 29+50SE Δ 0+20NE	-90°	32'	Jason 55	Aug. 8	Aug. 8	37'
R-77-46	L 29+60SE Δ 2+10NE	-90°	18'	Jason 55	Aug. 8	Aug. 8	18'
R -77-47	L 29+70SE Δ 4+00NE	-90°	27'	Jason 36	Aug. 8	Aug. 9	27'
R-77-48	L 20+00SE Δ 20+00SW	-90°	46'	Jason 58	Aug. 9	Aug. 9	87'
R-77-49	L 20+00SE Δ 22+00SW	-90°	65'	Jason 58	Aug. 9	Aug. 10	87'
R-77-50	L 19+70SE Δ 24+00SW	-90°	54'	Jason 58	Aug. 10	Aug. 10	78'
R-77-51	L 19+80SE Δ 25+80SW	-90°	35'	Jason 58	Aug. 10	Aug. 10	55'
R-77-52	L 35+00NW Δ 21+00SW	-90°	24'	Jason 53	Aug. 10	Aug. 10	48'
R-77-53	L 35+00NW Δ 19+00SW	-90°	28'	Jason 53	Aug. 10	Aug. 11	45'
R-77-54	L 35+00NW Δ 11+00SW	-90°	52'	Jason ~~53~~ 144	Aug. 11	Aug. 11	65'
R-77-55	L 35+00NW Δ 23+00SW	-90°	28'	Jason 53	Aug. 11	Aug. 11	55'
R-77-56	L 35+00NW Δ 25+00SW	-90°	24'	Jason 53	Aug. 11	Aug. 11	40'
R-77-57	L 35+00NW Δ 27+00SW	-90°	25'	Jason 53	Aug. 12	Aug. 12	(20)' 50'
R-77-58	L 35+00NW Δ 29+00SW	-90°	20'	Jason 53	Aug. 12	Aug. 12	50'
R-77-59	L 35+00NW Δ 33+20SW	-90°	23'	Jason 126	Aug. 12	Aug. 12	50'
R-77-60	L 35+00NW Δ 35+00SW	-90°	31'	Jason 126	Aug. 13	Aug. 13	50'
R-77-61	L 35+00NW Δ 34+50SW	-90°	34'	Jason 126	Aug. 13	Aug. 13	(20)' 40'
R-77-62	L 32+00NW Δ 33+80SW	-90°	30'	Ace 11Fr	Aug. 13	Aug. 13	45'
R-77-63	L 34+00NW Δ 43+00SW	-90°	16'	Jason 126	Aug. 13	Aug. 14	40'
R-77-64	L 32+60NW Δ 44+70SW	-90°	13'	Jason 126	Aug. 14	Aug. 14	50'
R-77-65	L 30+20NW Δ 43+70SW	-90°	20'	Jason 126	Aug. 14	Aug. 14	60'
R-77-66	L 27+20NW Δ 42+40SW	-90°	15'	Jason 126	Aug. 14	Aug. 14	50'

CORDILLERAN ENGINEERING LIMITED

ROTARY DRILL SUMMARY RECORD

JASON PROPERTY: 105-O-1

HOLE No.	GRID LOC.	INCL.	O/B	CLAIM	STARTED	FINISHED	DEPTH
R-77-67	L 27+30NW 40+80SW	-90°	21'	Jason 126	Aug. 14	Aug. 14	50'
R-77-68	L 25+80NW 39+90SW	-90°	40'	Ace 11Fr	Aug. 15	Aug. 15	45'
R-77-69	L 23+50NW 39+00SW	-90°	15'	Jason 54	Aug. 15	Aug. 15	75'
R-77-70	1 30+70NW 38+40SW	-90°	15'	Jason 54	Aug. 15	Aug. 16	38'
R-77-71	L 23+90NW 38+00SW	-90°	23'	Jason 126	Aug. 16	Aug. 16	65'
R-77-72	L 25+80NW 33+30SW	-90°	21'	Jason 54	Aug. 16	Aug. 16	65'
R-77-73	L 24+40NW 34+70SW	-90°	14'	Jason 54	Aug. 17	Aug. 17	20'
R-77-74	L 25+40NW 34+00SW	-90°	14'	Jason 54	Aug. 17	Aug. 17	35'
R-77-75	L 15+00SE 18+00SW	-90°	0	Jason 57	Aug. 17	Aug. 17	60'
R-77-76	L 14+90SE 20+00SW	-90°	18'	Jason 57	Aug. 17	Aug. 18	60'
R-77-77	L 15+00SE 22+00SW	-90°	60'	Jason 59	Aug. 18	Aug. 18	78'
R-77-78	L 24+50SE 1+00NE	-90°	11'	Jason 55	Aug. 18	Aug. 19	48'
R-77-79	L 24+60SE 2+70SW	-90°	13'	Jason 55	Aug. 19	Aug. 19	13'
R-77-80	L 24+60SE 2+70SW	-90°	20'	Jason 55	Aug. 19	Aug. 19	23'
R-77-81	L 23+80SE 3+70SW	-90°	50'	Jason 55	Aug. 19	Aug. 19	50'
R-77-82	L 1+20NW 16+30SW	-90°	61'	Jason 50	Aug. 20	Aug. 20	104'
					TOTAL DRILLING:		4,032'

Rotary Drilling Records

Cordilleran Engineering Ltd.

from July 6th ~ Aug. 20, 1977

at

West Jason Property, Yukon

(Hole R77-1 to R77-82)

Legends.



Overburden



massive Argillite



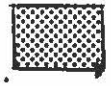
Sandstone laminiated Argillite



Carbonaceous shale alternated Argillite



fragmented Turbidite



Ore mineralized



so called "Dirty Conglomerate" mainly muddy matrix with some Argillites fragments. Occassionally some Rhyolitic fragments contained.

Arg : Argillite
S.S : Sandstone
phy : phyllite
C.sh : Carbonaceous shale

Tb : fragmented Turbidite,
Rhy : Rhyolitic rock
Qz : Quartz
Py : Pyrite
Calc : Calcite

Sp : sphalerite
Gl : Galena
Bar : Barite

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Page 1

Hole No. R77-1 | Property West Jason

Coordination 5SE - 11.5 SW | Elev. Collar 4304' | Azimuth 0° | Angle of Hole 90°

Total Depth 45 ft | Date July 6th-7th, 1977 | Logged by K. I. Lu

Section	Color	Constituents (Vol %) Powder	Arg.	S.S.	Tb	Rhy	Qs	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft 0	brownish yellow	30	30			30 (Cgw)	10		Overburden	*31 160	48 100	2390								19364	
10	Light brown	30.	60			10-	Some		"	34 300	47 112	1960								19365	Bar. ?
	light brown	70	25.			2-	3-		"	240 1130	48 153	2030								19366	
20	light grey	40	52		3.	Some	Some	5	"	1100 3900	85 232	1840								19367	
	light grey	40	50				5-	5+	"	940 2400	53 200	1700								19368	
	black	20	75	Some			3	2	Pyritized Argillite with Quartz veinlets	355 1600	66 156	1630								19369	
30	grey	10	65	18			4	3	" " (Galena - quartz veinlet some)	510 3200	53 126	1460								19370	Gl.Os
	grey	15	60	15			5	5	" "	385 3000	66 132	1640								19371	
40	grey	20	50	15	7		5	3	(Some fine "Tuchwilite intrusive" veinlets)	2000	128	1720	300	10	1.4	58	20	1820	23	19372	
	45 ft																				

[* 31, 49 ... are results of cold extraction method]

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Hole No. R77-2 Property West Jason

Coordination 5SE - 11SW Elev. Collar 4314' Azimuth 0° Angle of Hole 90°

Total Depth 28' Date July 7th, 1977 Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	S.S.	Tb	Rhy	O_x	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
	brown	30	60-			5+	5-	Some	overburden	800	152	2560								19373	
10	brownish grey	35	60-				5	Some	"	500	128	2500								19374	
	brownish grey	35	55-		5		5	Some	"	700	138	2160								19375	
20	grey	15	70		7		5	3	"	730	141	1790								19401	
	grey	10	80	4			3	3	Argillite, some sandstone alternated. Cpy+Py+qz in part)	440	111	1660								19402	
28'	grey	10	75	10			2	3	"	340	88	1590	172	6	0.7	61	13	850	217	19403	

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Hole No. R77 - 3 | Property West Jason

Coordination 5SE-13.5SW | Elev. Collar 4273' | Azimuth 0° | Angle of Hole 90°

Total Depth 55' | Date July 7th 1977 | Logged by K. I. Lu

Section	Color	Constituents (Vol %) Powder	Arg	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft	brown	30	55	2	8	5		overburden	215	130	3500								19404	
10	brownish grey	20	65	8	5	2		"	200	81	2990								19405	
	brownish grey	20	60	8	7	5		"	170	96	2400								19406	
20	brown	15	70	10	3	2		"	105	81	2320								19407	
	brownish grey	15	70	15			some	"	150	59	2340								19408	
30	brownish grey	10	40	40	10	some		fault zone (mixture of assorted rocks crushed to angular pieces)	100	62	2200								19409	
	grey	15	40	40	5			"	90	50	2080								19410	
40	grey	25	60	10	3	2	some	"	120	60	2160								19411	
	grey	35	50	10	2	3		"	100	42	2040								19412	
50	grey	40	52	8		2	some	"	90	33	1890								19413	
	grey	40	45	13	some	2		"	75	41	1980								19414	
55 ft																				
60																				

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Hole No. R77-4 Property West Jason

Coordination 10NW-16SW Elev. Collar 4220' Azimuth 0° Angle of Hole 90°

Total Depth 40' Date July 8th, 1977 Logged by K. I. Lu

Section	Color	Constituents (Vol %) Powder	Arg	Tb	Rhy	Qz	Py	Bar	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft / m																					
	light brown	35	10-	15-	30 (Qz>)	10+	Some		Overburden (barite fragments some)	*34 86	63 92	3740								No number refer to Rpt 3FS-87	Bar.
10	light brown	30	15	15	30	5+	3-	2+	" (barite sand & fragment bar-gl fragment)	18 105	45 125	6130								19415	Bar. Gl.
	light brown	30	15	10	35	5	3	2+	" (barite sand)	94 390	30 94	6260								19416	Bar.
20	light brown	30	7-	10	20	30	2	1+	" (barite sand & fragment some sp and Gl)	180 740	24 73	4110								19417	Bar.
	light brown	30	5+	35	5	20	4	1	" (barite, bar-gl.-sp, Qz-sp fragments.)	370 1860	34 63	3530								19418	Bar. Gl. Sp.
30	light brown	35	5	30	10	15	3	2-	" (")	310 1350	34 67	3180								19419	Bar. Gl. Sp(?)
	brown	35	5-	25-	Some	more milky 30	4-	1+	" (barite fragments)	995	170	2850	120	6	0.2	8	9	10	66	19420	Bar.
40	brownish black	35	45	10	5	5*			(Some overburden) Silic. Argillite laminated by Qz-Sp bands.	1000	460	3740	136	14	0.5	14	10	10	58	19421	*Sp. mostly as bands with Sp in Argillite
	40ft																				
20																					

[* 34, 63 ... are results of Cold Extraction method]

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Page 1

Hole No. R77 - 5 | Property West Jason

Coordination 10SE-8SW | Elev. Collar 4365' | Azimuth 0° | Angle of Hole 90°

Total Depth 20' | Date July 8th, 1977 | Logged by F. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Boulder	Arg	S.S.	O_2	Py				Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft	M																					
	brown+grey	20	70	10						sandstone laminated Argillite	650	500	4770	500	4	2.3	109	22	530	59	19422	
10	greyish brown	10	65	20	3	2				$(O_2$ veined, pyritized in part)	1390	240	1910	200	8	0.4	45	16	300	59	19423	
	light creamy grey	15	60	22	2	1				" (")	480	222	1940	340	3	1.3	39	12	1680	27	19424	
20	reddish brown	10	8	80	2					Sandstone and argillite alternation	420	500	1490	210	2	3.7	132	22	1780	30	19425	
20																						

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Hole No. R77-6 Property West Jason

Coordination 10 SE-8.5SW Elev. Collar 4351' Azimuth 0° Angle of Hole 90

Total Depth 20' Date July 9th, 1977 Logged by K. I. Lee

ft	Section	Color	Constituents (Vol %) Powder	Arg.	s.s.	Tb	Rhy	Qz	Pyr		Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
		light grayish brown	15	50		30		5	some		Argillites alternate with Turbidites	410	156	2990	130	9	0.2	24	12	390	27	19426	
10		light brown	15	15	5	50	10	5	some		Turbidites (Coarser fragments?)	290	140	2170	110	7	0.2	12	10	180	81	19427	
		light yellowish brown	20	30	?	47		3	some		Turbidites (with some Argillite beds?)	310	169	2140	280	6	3.6	29	13	1430	106	19428	
20	20ft	grayish brown	10	50	8	30		2	some		Argillites alternated(?) with Turbidites	260	178	1940	130	5	2.8	37	19	1980	67	19429	
30																							
40																							

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Page 1

Hole No. R77 - 7a & 7b

Property West Jason

Coordination (a) 10 SE - 9 SW (b) 10.25 - 9.25 W

Elev. Collar 4339'

Azimuth 0°

Angle of Hole 90°

Total Depth (a) 5' (b) 5'

Date July 9th, 1977

Logged by K. I. Lee

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %)								Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
5 ft										Silicified fragmented Turbidite	No Sample collected											
										7a & 7b both failed to advance												

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Page 1

Hole No. R77-8 | Property West Jason

Coordination 10NW-12SW | Elev. Collar 4302' | Azimuth 0° | Angle of Hole 90°

Total Depth 55' | Date July 10th, 1977 | Logged by K. I. Lee

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	SS.	Tb	Rly	Oj	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft / m	brownish grey	20	40	some	25	5	7	3	Overburden (Argillite ≈ Turbidite)	1240	324	3180								19430	
10	"	20	45	3+	20	?	7-	5	" (")											Sample not sufficient	
	light grey	10	20	8	30	20	10	2	" (Argillite < Turbidite)	450	170	4970								19431	
20	grey	10	20	20	30	15	5	rare	" (")	160	111	5340								19432	
	light grey	15	35	12	25	10	3	rare	" (Argillite ≤ Turbidite)	110	98	3590								19433	
30	grey	20	30	10	25	12	3	some	" (Argillite < Tubidite)	245	140	3410								19434	
	grey	10	45	25	15		5	rare	" (Clam Arg > Turbidite)	65	132	4480								19435	
40	grey	10	80	8	?		2	rare	(some overburden?) laminated Argillite (some Oj veinlets)	60	197	4110								19436	
	"	5	80	10			5		" (")	40	160	3670	122	14	0.2	36	14	185	45	19437	
	"	10	80	10				rare	"	40	212	1980	105	7	1.2	45	13	235	35	19438	
50	"	10	80	9-			1	some	" (")	30	244	1830	124	7	1.0	60	15	405	31	19439	
	55 ft																				
60																					

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Page 1

Hole No. R77-9 | Property West Jason

Coordination 10 NW-13 SW | Elev. Collar 4289' | Azimuth 0° | Angle of Hole 90°

Total Depth 55' | Date July 10th~11th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	Phy	C.sh	Tb	Rhy	Q3	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m	light grey	60	15	20		5				overburden	46	540	8500								21539	
	"	40	17			30	5	8		"	47	2700	8500								21540	
	"	20	50			15	5	10		"	48	640	7500								21541	
	"	30	40	10		15		5		"	48	600	6500								21542	
	"	20	20			10	40 (q>>a)	10	some	"	43	188	5100								21543	
	"	20	30			10	25 (q>>a)	5	some	"	40	148	5250								21544	Bar.?
10	grey	90	7	some	some	1+		1	1	"	51	278	4400								21545	Bar. Sp.
	"	85	7	2	1+	2+		2	1	(") Turbidites ?	103	255	4650								21546	Bar.?
40	light grey	25	45	20		8		2	some	Slumped Argillite mixed with Turbidite	117	141	5800	92	8	0.2	38	9	115	45	21547	
	"	25	40			30		5		Alternated Turbidites and Argillite	63	152	4500	133	1	1.0	30	8	165	55	21548	
50	"	30	35			30+		5-		"	53	255	4000	121	8	0.7	38	8	145	60	21584	
55 ft																						
20m																						

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

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Hole No. R77-10 | Property West Jason

Coordination 10NW-14SW | Elev. Collar 4275' | Azimuth 0° | Angle of Hole 90°

Total Depth 58' | Date July 11th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	S.S.	Tb	Rhy	Q_2	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft M	Ankish grey	25	45	30	rare	rare	Some	?	Overburden (mostly Weached Sa. Argillite)	80	202	2500								21550	
	light brownish grey	40	20	24	15	1+	Some		" (few bar ?)	56	1100	7000								21551	Bar ?
10	light brown	20	30	35	14		1-		"	49	240	6100								21552	
	grey	20	25	45	11	3	1+	Some	" (few barite)	40	280	5800								21553	Bar.
20	light grey	35	15	29	7	6 (CW)	3	Some	"	66	143	5000								21554	
	grey	30	40	20	5	3 (CO2W)	2		"	55	164	4300								21555	
30	brownish grey	30	20	25	18	5	1+	1+	" (few barite)	81	202	2700	100	10	0.6	38	7	175	60	21556	Bar
	"	60	20	10	3	4	2+	1-	" (Some barite)	158	292	950	82	11	1.1	53	10	255	105	21557	Bar.
40	dark grey	95	3+	1-			1	Some	Soft " (some shale alternated with Turbidite (few barite)	43	295	7500	78	12	1.6	72	13	295	85	21558	Bar.
	grey	55	20	15	13	6 (CO2W)	1+	Some	Soft shale alternated with Turbidite and Argillite	47	170	9500	76	10	0.4	38	7	125	60	21559	Bar.
50	"	20	55	20	?	3	2		laminated Argillite with some Turbidites (Dirty Cong.?)	33	75	8000	102	10	0.2	20	3	85	35	21560	
	"	20	45	15	3	17 (QUIZ)	Some	Some	" (" ?)	46	97	6700	98	7	0.2	26	4	125	40	21561	
58'																					
60																					

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ROTARY DRILLING RECORD

Hole No. R77 - 11 | Property West Jason

Coordination 35 NW - 13 SW | Elev. Collar 4600' | Azimuth 0° | Angle of Hole 90°

Total Depth 27' | Date July 11th, 1977 | Logged by K. I. Lu

Section (ft)	Color	Constituents (Vol %) Powder	Arg	S.S.	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
0	brown	15	70	15	Some	Some	Sandstone laminated Argillite (Weathered. FeOH)n stained.	1010	290	2550								21562	
10	brownish grey	20	65	15	Some	Some	" (" ")	550	209	2650								21563	
	light brownish grey	20	70	10	Some	Some	" (" ")	890	110	5400	60	6	0.2	20	3	85	42	21564	
20	Grey	10	60	30			"	1800	420	6000	44	5	0.2	14	1	60	55	21565	
	"	15	60	25			"	1810	153	6200	57	5	0.2	11	1	35	60	21566	
27'	"	15	50	35			"	915	200	6100	194	5	0.2	14	3	45	55	21567	
30																			
40																			
50																			
60																			

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ROTARY DRILLING RECORD

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Hole No. R77-12 | Property West Jason

Coordination 35NW-15SW | Elev. Collar 4540' | Azimuth 0° | Angle of Hole 90°

Total Depth 37' | Date July 11th 1977 | Logged by K. I. Lu

Section ft / m	Color	Constituents (Vol %) Boulder	Arg	S.S.	Tb	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
	grey and brown	20	40	35	4-	1	Some	Overburden (Change number of bleached lam. Argillite)	230	300	3100								21568	
10	light grey	25	50	24		1+	?	" (")	188	249	2850								21569	
	"	30	60	10		Some	?	" (")	63	100	3150								21570	
20	black	20	70	9		1-	Some	Some sandstone laminated Argillite	36	81	7500	6	4	0.2	4	1	<5	70	21571	
	dark brownish grey	20	70	9		1-	Some	"	36	48	7000	18	15	0.2	9	1	<5	70	21572	Realite ?
30	black	10	70	18		1-	1+	"	31	38	500	22	16	0.2	43	4	10	35	21573	" ?
10	black	10	80	6		1	3+	" (pyritized in part)	43	36	300	60	18	0.2	84	9	35	35	21574	" ?
37'	black	10	80	9		1-	Some	"	60	47	350	66	21	0.2	97	11	45	30	21575	
20																				

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ROTARY DRILLING RECORD

Hole No. R77-13 Property West Jason

Coordination 35NW-17SW Elev. Collar 4485' Azimuth 0° Angle of Hole 90°

Total Depth 47' Date Logged by K. I. Lu

Section	Color	Constituents (Vol %) Powder	Arg	Q-sur	C.Sh	Tk	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft																						
0	brownish grey	40	10	10		20	20	some		Overburden (mixture of Turbidites and partly bleached Argillite)	58	44	600								21576	
10	grey	55	15	3		5	20	2		" (")	58	128	2700								21577	
	grey	60	25	10		some		5		" (" less turbidites)	68	188	2650								21578	
	dark grey	55	30	3	10			1	1+	(" some) partly weathered Argillite alternated with Carbonaceous sh	60	130	7500	8	12	0.2	8	1	5	90	21579	
20	"	50	30		17			1	2	Carbonaceous shale alternated with partly pyritized Argillite	14	22	7500	9	12	0.2	10	1	<5	50	21580	
	"	35	40		20			some	5	"	39	133	1250	23	19	0.2	24	1	5	40	21581	
30	"	55	35		some			some	10	" (extensively pyritized Argillite some massive pyrite beds)	48	62	250	490	15	0.2	93	9	5	18	21582	
	"	60	35		some				5	" (" ")	42	500	350	760	25	1.8	123	11	10	28	21583	
40	black	85	10		some			some	5	" (")	44	220	400	680	17	1.8	86	8	5	38	21584	
47ft	black	90	some		5				5	Mostly Carbonaceous shale with some Argillite (")	48	95	350	60	18	1.0	90	8	10	40	21585	
50																						

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ROTARY DRILLING RECORD

Hole No. R77-14 Property West Jason

Coordination 35 NW-36 SW Elev. Collar 4295' Azimuth 0° Angle of Hole 90°

Total Depth 26' Date Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	phy	Tb	Rhy	Qz	Py		Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m	brownish grey	20	35		25-	20	some			Overburden (mixture of Assorted rocks (silicified, FeOxH stained	380	1340	3100								21627	
	"	25	38	2	15	20	some	some		" (mixture of Assorted rocks)	67	1820	2700								21628	
10	"	15	50	20	5+	7-	3+	some		" (" ")	27	1360	3300								21629	
	grey	10	65	15	3-	5	2	some		(" some) Argillites (with some Turbidite Beds) (C Slumped layers)	26	830	2300	530	22	6.4	73	8	150	62	21630	
20	"	15	60	20-			3	2+		Argillites (some silided in part?) pyrite beds	26	820	1500	550	23	7.4	76	13	130	95	21631	
26ft	"	20	74	5				1+		" " "	18	295	4200	160	14	2.0	47	10	80	75	21632	
10																						
20																						

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ROTARY DRILLING RECORD

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Hole No. R77-15 | Property West Jason

Coordination 35 NW- 40.085W | Elev. Collar 4358' | Azimuth 0° | Angle of Hole 90

Total Depth 31' | Date | Logged by K. I. Lu

ft	Section	Color	Constituents (Vol %) Bndr	Arg	S.S.	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
		brownish grey	40	15		24	20		1+	Overburden (Weathered; extensively Fe-oxide stained.)	21	820	2400								21633	Sp?
10		light brownish grey	50	15		20	15		some	" (" ")	20	720	2500								21634	Sp?
		light grey	40	27		20	10	3		"	70	660	2550								21635	Sp?
20		light brownish grey	50	20		15	10	5+		"	63	740	2650								21636	Sp.
		dark grey	50	40	7			3		(" some) Some sandstone laminated Argillite	34	690	3650								21637	
30		brownish dark grey	45	50	4			1		"	36	730	9000	100	22	3.8	140	6	170	132	21638	
	31ft	black	40	58				2	some	" (weakly pyritized)	20	630	7000	108	20	3.4	150	5	105	42	21637	
		20																				

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ROTARY DRILLING RECORD

Hole No. R77-16 Property West Jason

Coordination 35 NW - 38.5 SW Elev. Collar 4338' Azimuth 0° Angle of Hole 90°

Total Depth 251' Date Logged by K. I. Lu

Section	Descriptive Geology										Assay Results												Remark
	Color	Constituents (Vol %) Boulder	Arg	S.S.	Tb	RAV	Qz	Pyr		Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft / m	brown & dark grey	30	14	55	?	?	1-			Overburden (Sandstone >> Argillite)	22	740	2600								21640	
	greyish brown	25	14	60			1+			" (")	18	1100	2800								21641	
10	light grey & brown	15	40	45		?	Some			" (Sandstone ≡ Argillite)	25	960	3000								21642	Calcareous
	dark grey	15	70	14			1	Some		" bed rock — mixed with laminated calcareous Argillite	18	490	6200	172	26	1.3	100	5	70	52	21643	Calcareous
20	"	20	70	9			Some	1-		laminated calcareous Argillite	15	380	8500	500	19	2.2	83	6	170	110	21644	Calcareous
258'																							
40																							
20																							

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-17 Property West Jason

Coordination SSE - 13.2 SW Elev. Collar 4280' Azimuth 0° Angle of Hole 90°

Total Depth 85' Date Logged by K. I. Lu

Section	Descriptive Geology										Assay Results												Remark
	Color	Constituents (Vol %)								Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
		Boulder	Arg	S.S	Sity	Tb	Rhy	Qz	Py														
ft m	creamy light brown	15	50			30		4"	1"	overburden (Argillite ≥ Turbidite)	121	90	3000								21651	Q-Bar. (Sp?)
10	light brown	20	50	10		15		5"	some	" (Argillite >> Turbidite)	295	124	2700								21652	
	grey/ish brown	20	25"	some	20	30"	some	4"	1"	" (Argillite ≥ Turbidite)	725	420	3000								21653	
	"	25	40		10	20		5"	some	" (Argillite > Turbidite)	410	2000	2700								21654	
20	light brown	35	45		5	10		some	5"	" (")	500	360	2700								21655	Bar.?
	"	30	50"		3	10"	2	2	3	" (")	305	172	2300								21656	Bar. Sp. Gal.?
30	"	30	50"		5	8	3	2	2"	" and bedrock? (")	480	134	2600								21657	Bar. Sp. Gl. remarkable
	"	20	55	5		8	10	some	2"	" and bedrock (")	650	140	3600	192	7	2.3	36	17	1430	42	21658	Bar.
40	"	30	40			7	15	5	3	Argillite and Turbidite mixture (or alternated)	450	104	5600	116	6	1.0	28	9	350	50	21659	Bar.
	grey	60	35"			3"			2	Soft shale, Argillite and Turbidite alternated (or mixture)	900	122	5250	110	7	2.6	29	6	90	40	21660	Soft rock
50	"	60	35"			3"			2	"												Soft rock
	"	60	35"			3"			2	"	405	84	8000	118	5	2.4	23	8	240	45	21661	Soft rock
60	"	40	40			10	5	2"	3"	Argillite and Turbidite mixture (or alternated)												
	"	45	35			10	5	some	5	"	155	139	2950	178	5	0.4	53	17	1300	42	21662	
70	"	60	10			10	15		5	"												Soft rock
	dark grey	55	25			17"	some		3"	"	103	44	1250	146	5	0.2	34	13	1165	45	21663	Soft rock
80	"	55	25			18"		some	2"	"	80	74	1000	153	4	0.2	56	19	755	40	21664	Soft rock
85ft																							

Turbidite ?

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-18 (30'NW of)
Coordination 10SE-135W
Total Depth 28'

Elev. Collar _____
Date _____

Azimuth 0°

Property West Jason
Angle of Hole 90°
Logged by K. I. Lu

Section	Descriptive Geology: Color	Constituents (Vol %): Powder	Arg	S.S.	Tb	Rhy.	Qz	Py	Geology	Assay Results: Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft	light brownish gray	20	15	5	45-	10 (white)	5	?	Overburden (Turbidite; fine>Coarse)	1075	256	4500								21645	Bar. sand (~1%)
10	creamy white and grey	15	7-	?	25	50 (white)	3-	Some	" (" ; Coarse>fine)	835	224	7500								21646	Bar. Sand (~1%)
	light grey and grey	10	10	?	28-	50 (white)	2+	Some	" (" ; ")	1740	216	13500								21647	Bar. Some
20	light grey	10	10-	3+	30	45 (white)	2-	Some	" (" ; ")	250	620	3150	122	8	0.3	49	4	50	70	21648	Bar. Sand
	"	15	15	Some	40	20 (white)	2+	3+	" (" ; fine>Coarse)	122	970	950	172	8	5.0	65	6	110	70	21649	(Rel.) Bar. Sand and fragments ~5%
28ft	"	15	10	4	45	15 (white)	3	3+	" (" ; ")	38	1700	380	170	12	0.2	111	9	50	42	21650	Bar. Sand and fragments ~5%
	10																				
	20																				

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ROTARY DRILLING RECORD

Hole No. R77-19 Property West Jason

Coordination 5NW-4SE Elev. Collar _____ Azimuth 0° Angle of Hole 90°

Total Depth 15' Date _____ Logged by K. I. Lu

Section (ft)	Color	Constituents (Vol %) Powder	phy	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
0–5	light brownish gray	15	85	phyllite carbonaceous, 10% FeOH stained	72	17	3350								21615	
5–10	light gray	15	85	" (5% FeOH stained)	50	13	4150	6	4	0.2	2	2	3	80	21616	
10–15	"	15	85	" Quartz carbonaceous (" " " ")	52	15	4200	6	9	0.2	2	2	6	80	21617	
15 ft																

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ROTARY DRILLING RECORD

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Hole No. R77-20 | Property West Jason

Coordination 5NW-9.5SE | Elev. Collar _____ | Azimuth 0° | Angle of Hole 90°

Total Depth 151' | Date _____ | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Pyrite	Phy	Arg	Tb	Qz				Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft 0	overburden									some overburden												
	light creamy grey	15	65	12	5	3				grey phyllite → Turbidite	63	24	2100								21618	
	light grey	15	82			3				grey phyllite with some fracture veinning	880	161	2100	27	16	0.2	2	3	4	65	21619	
10	"	15	80			5				" "	450	26	2150	19	9	0.2	1	2	1	45	21620	
	151'																					

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-21 Property West Jason

Coordination 5NW-5SE Elev. Collar _____ Azimuth 0° Angle of Hole 90°

Total Depth 15' Date _____ Logged by K. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Boulder	phy	s.s.	O_3	Arg				Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft	3 Light cream/brown	10	88	1-	1+					Phyllite some sandstone laminated	460	142	1700								21621	
	2 Light grey-ish brown	15	75	5		5				" "	360	104	2050	40	31	0.2	3	4	9	62	21622	
10	4 Light grey	15	80	Some	5					Phyllite	173	58	1900	36	27	0.2	3	4	8	58	21623	
	15ft																					
	1																					

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-22 | Property West Jason

Coordination S NW - S.S SE | Elev. Collar _____ | Azimuth 0° | Angle of Hole 90°

Total Depth 151' | Date _____ | Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg.	S.S.	phy	Tb	Qz	C.st.	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m																						
	creamy white	10		←	20	60?	10		phyllite alternated with fine Turbidite Cor Sandstone?	147	44	1800								21624	
2	creamy grey	10	20	40	20		8	2	"	98	64	5300	39	21	0.2	7	1	≤5	35	21625	
10 4	light grey	10	70	5	10	5?			"	68	58	5400	23	12	0.2	3	1	<5	30	21626	
151'																						
6																						
8																						
10																						

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ROTARY DRILLING RECORD

Hole No. R77-23 | Property West Jason

Coordination 20SE-12NE | Elev. Collar 3983' | Azimuth 0° | Angle of Hole 90°

Total Depth 57.5' | Date July 13TH, 1977 | Logged by K. I. Lu

Section (ft)	Color	Constituents (Vol %) Pyrite	Arg	S.S.	Tk	Rkv	Py	Py	a.sh	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
0	creamy brown	20	50	15	11	3	1-	?		overburden (Argillite > Turbidite)	60	229	2180								21586	
10	Yellowish brown	20	55	20	3	1+	1+	Some		" (Argillite >> Turbidite)	59	178	2300								21587	
	grey and brown	25	60	15			Some	rare		" Carbonaceous Arg.	58	220	3050								21588	
20	dark greyish brown	35	45	25			Some	rare		" (")	73	64	3000								21589	
	dark brown	60	30	9	1?			rare		" (")	70	86	2650								21590	
30	brown	60	30	10				?		" (laminated Argillite)	72	90	3050								21591	
	40 dark grey	30	45	15			1-	1	9+	" and bedrock laminated Argillite with carbonaceous shale	56	82	3300								21592	
40	light black	20	60	16			1	3+		laminated Argillite some pyrite beds	36	58	150	55	10	0.2	34	10	26	68	21593	Py. beds
	"	20	65	11			1-	3+		"	51	230	150	220	10	0.2	50	15	47	60	21594	Py. bed.
	dark grey	15	70	13			Some	2+		"	101	520	200	300	15	0.2	54	15	31	70	21595	
50	"	15	70	18			Some	7+		Pyrite beds laminated Argillite												massive pyrite fragments abundant
	57.5'	20	60	10			Some	10		"												"
	60																					

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-24 | Property West Jason

Coordination 20 SE-14 NE | Elev. Collar 3969' | Azimuth 0° | Angle of Hole 90

Total Depth 60' | Date July 13th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	S.S.	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
5'	creamy brown	30	15	10	22	3	20	?	Overburden (Turbidite >> Argillite)	36	560	2250								21606	
10	brown	15	20	40	21	3+	1	?	" (Turbidite >> Argillite)	60	510	2000								21607	
	brown	25	38	30	4	Some	2	2	" (Argillite ≥ Turbidite)	62	234	2600								21608	
	some grey and brown	20	70	10			Some	?	" (Argillite)	112	131	3500								21609	
20	grey and white	20	70	5	5		Some	Some	" and some bedrock laminated Argillite	158	40	4500								21610	
	dark grey	20	70	10			Some	rare	laminated Argillite	150	38	4100								21611	
30	black	30	60	10					"	66	20	4250	44	15	0.2	2	2	4	75	21612	
	"	15	70	15				?	"	134	74	3850	46	15	0.2	4	3	4	75	21613	
40	"	15	70	15			?	Some	"	88	83	3950	52	28	0.2	3	3	5	85	21614	
	"	5	90	5				rare	"												
50	"	10	87	3				Some	"												
	"	15	83	2				Some	"												
60	60'																				

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-25 | Property West Jason

Coordination 20SE-16NE | Elev. Collar 3956' | Azimuth 0° | Angle of Hole 90°

Total Depth 581' | Date July 13th~14th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	S.S.	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft M	brownish grey	40	25	7	3	5	20		overburden (Argillite > Turbidite)	68	186	1800								21596	Quartz fragment abundant.
10	brown and grey	25	40	15	13	6	1+	?	" (")	69	181	2350								21597	
	brownish grey	20	40	25	9	4+	1+	1-	" (")	74	151	2150								21598	
20	brown and grey	15	15	15	35	18-	2-	Some	" (Turbidite > Argillite)	63	640	1800								21599	
	brownish grey	15	20	30	30-	4	1+	Some	" (Laminated Arg. ≥ Turbidite)	57	248	2450								21600	
30	dark grey	10	60	30	6-	?	1-	3+	" (Laminated Arg. > Turbidite)	38	164	150								21601	
	10 grey	10	70	5	3?		Some	2+	Some overburden laminated pyritized Argillite some Qz veining	35	1380	580								21603	
40	"	15	75	6			1-	3+	"	42	3200	120	122	8	0.2	54	20	103	65	21604	
	"	10	75	5	5?		2+	3-	"	37	226	150	140	8	0.2	46	18	79	70	21605	
	"	10	60	15	11?		2+	2	"	18	174	300	188	6	0.4	50	24	95	75	21606	
50	"	10	65	17			5	3	"												
	"	10	70	17			1	2	"												
581'																					
20																					

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Page 1

Hole No. R77-26 | Property West Jason

Coordination 35NE-10SW | Elev. Collar 3833' | Azimuth 0° | Angle of Hole 90°

Total Depth 40' | Date July 14th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	S.S.	Tb	RAV	O_2	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
0ft	brownish grey	20	30	17	20	10	3	Some	Overburden (Argillite ≒ Turbidite)	23	132	2600								21665	
10	"	15	20	20	25	17	3+	Some	" C Turbidite ≥ Argillite	35	500	2600								21666	
	grey	20	25	10	15	25 (Calc.)	4	1+	" Coarser C ")	27	380	2400								21667	
20	"	10	30	10	28	20 (Calc.)	2	Some	" Coarser C Turbidite > Argillite	32	370	2600								21668	
	"	35	20	10	20	11 (Calc.)	3	1+	" Finer C Turbidite ≥ Argillite	25	310	4800								21669	
	brownish grey	35	15	10	20	15 (Calc.)	4	1	" C Turbidite > Argillite	36	375	4800								21670	
30	grey	30	15	10	20	19 (Calc.)	5	1+	" C ")	39	365	3400								21671	
40	dark grey	40	25	10	8	15	2+	Some	" (Argillite ≧ Turbidite)	32	740	3900								21672	
	40ft								Gas explored. (Pipe was broken lost pipe and bit.)												
20																					

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ROTARY DRILLING RECORD

Hole No. R77-27 | Property West Jason

Coordination 35NE - 65W | Elev. Collar 3810' | Azimuth 0° | Angle of Hole 90°

Total Depth 45 | Date July 14th~15th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Powder	Arg	S.S.	C.Sh.	Tb	Rhy	Bs	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft / m	brown	15	20	12		50	Some	3		overburden (Turbidite >> Argillite highly Recrystallized)	42	1950	3250								21673	
10	"	25	30	6		35	Some	4		" (Turbidite ≈ Argillite)	38	1640	3300								21674	
	"	20	25	5		50	15	5		" (" " ")	50	1200	2750								21675	
20	"	25	15	10		30	15	5		" (" " ")	55	1500	2100								19251	
	"	30	20	10		35	Some	5		" (" " ")	47	810	1700								19252	
30	dark grey	35	30	Some		25	3	3	4	" (Argillite ≥ Turbidite)	39	590	2700								19253	
	black	60		5	30	2	·	3	Some	(Same overburden) Carbonaceous shale, graphitic shale and Turbidite alternated	30	335	2100								19254	graphitic rock with fau calcite.
	light black	70		7	18	2	1	1	1	"	25	540	1900	144	13	2.0	66	12	180	195	19255	" 8%
40	black	55		5	30	10		Some		"	23	272	1000	110	12	1.6	67	12	230	185	19256	" 5%
	45ft																					
20																						

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Page 1

Hole No. R77-28 | Property West Jason

Coordination 35SE-8SW | Elev. Collar 3820' | Azimuth 0° | Angle of Hole 90°

Total Depth 221' | Date July 15th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	S.S.	Qz-Sr	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
0	Lt yellowish brown to grey	30	35	10		18	5	2	Some	overburden (Argillite ≥ Turbidite)	30	430	1850								19257	
	"	25	20	12	3	13	25 (coarse)	2	Some	" (Turbidite > Argillite)	33	655	1780								19258	poor recovery (-sand)
10	"	30	20	5	Some	25	13 (coarse)	7	Some	" (")	32	1010	2150								19259	Bar.?
	"	15	30	5	Some	27	20 (coarse)	3	Some	" (Turbidite >> Argillite)	36	2700	2200								19260	
20	"	10	30	6	2	30	20 (coarse)	2	Some	" (Turbidite ≥ Argillite)	30	1720	2200								19261	
221'										Gas blow out! Stop the drilling												

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ROTARY DRILLING RECORD

Hole No. R77-29 | Property West Jason

Coordination 34.2 SE - 7.8 SW | Elev. Collar 3824' | Azimuth 0° | Angle of Hole 90°

Total Depth 45' | Date July 15th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Pyrite	Arg	C.Sh	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m	brownish grey	20	45		25	8	2		Overburden (Argillite > Turbidite)	40	920	2030								19262	Poor recovery (core) Bar.
10	"	15	35		35	10	5	Some	" (Turbidite > Argillite)	33	550	2700								19263	" (~ 60%) massive Py.
	"	30	40		25	3	2	Some	" (Argillite > Turbidite)	39	820	2500								19264	" (~ 30%) Bar.
20	"	30	30		15	25 (Grey)	Some	Some	" coarser (Turbidite > Argillite)	34	920	2100								19265	" (~ 30%)
	"	30	45		15	7	3	Some	" (Argillite > Turbidite)	36	580	2000								19266	
	grey	30	50		10	8	2	?	" (")	34	530	2200								19267	
30	brownish grey	20	50		15	13	2		" and some bed rock. (")	47	360	2650								19268	Bar. Sp. (Gl ?).
	grey	15	40	Some	25	10	3	2	Alternated argillite and carbonaceous shale intercalated with fine tuffaceous	27	370	4600	84	12	1.6	66	14	225	150	19269	Bar. (Sp.?)
40	dark grey	40	25	5	15	8	5	2	"	23	300	2050	86	12	1.8	61	12	200	185	19270	Bar. massive Py some
	45'																				
20																					

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ROTARY DRILLING RECORD

Hole No. R77-30 | Property West Jason

Coordination 19.6 SE-17.2SW | Elev. Collar 4140' | Azimuth 0° | Angle of Hole 90°

Total Depth 461' | Date July 16th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Ander	Arg	phy	S.S.	Tb	Rhy	Qs	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft / m	brown	25	35	5	10	15-	7+	2-	1	Overburden (Argillite ≥ Turbidite)	300	840	5100								19271	Bar. Sand (~0.5%)
	greyish brown	15	20	Some	30-	25	7	2+	1	" (Argillite ≒ Turbidite)	255	1060	1900								19272	Bar. Sand (~0.2%)
10	"	20	30	Some	10	25	12	1	2	" (")	240	1100	1650								19273	Bar. sand Sp-Qs ↓ Bar decreasing
	"	15	35	5	30	10	3	1	1	" (Clam. Argillite > Turbidite)	205	840	1650								19274	Bar fragment
20	"	20	45	Some	15	15	2	1+	2-	" (")	260	755	2550								19275	Sp.
	grey	10	30	5	35	16+		2-	2-	" (" fine)	205	830	2450								19353	
30	grey	30	25	Some	22-	20		1	2+	" (" fine)	225	695	600								19354	
	dark grey	30	50	more	10	6		1	3	Some overburden; Argillite with some Turbidite	205	510	600	174	6	0.5	83	16	635	70	19355	
40	light grey	30	25	Some	35-	8-		Some	2+	"	200	515	820	420	6	0.6	67	13	580	98	19356	43.2' water flow out.
	461' grey	25	40	Some	20	9+	3	1	2-	Argillite intercalated with Turbidite	290	540	500	410	7	1.2	77	16	740	60	19357	Sp.
50																						

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-31 | Property West Jason

Coordination 19.05 SE - 16.65W | Elev. Collar 4160' | Azimuth 0° | Angle of Hole 90°

Total Depth 35' | Date July 16th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Andes	Arg	phy.	s.s.	Tf	Rhy	Qs	Pyr	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m	light cream brown	20	35		15	15	10	5	?	Overburden (Turbidite ≥ Argillite)	415	1020	4400								19358	Bar. Sand ~0.5% Sp. some
10	light brown	15	45		5	25	8	2	Some	" (Argillite > Turbidite)	163	2700	4700								19359	"
	light grey	30	15	30	10	10	Some	1+	Some	" (Turbidite > Argillite)	113	780	2750								19360	Bar. Sand
	grey	15	30	30	15	10	Some	Some	rare	Some overburden rocks: Argillite with some fine fragmental Turbidite (dirty comp.)	92	700	3000	28	5	0.2	7	1	20	92	19361	Some Bar. chips.
20	"	20	15	50	5	4	5	1+	Some	Argillite with some Turbidite ("dirty conglomerate"?)	120	340	2900	14	4	0.2	7	1	5	110	19362	rare Bar. chips
	"	25	15	35	5	16	2	1+	1+	"	106	490	2400	30	5	0.2	19	3	15	80	19363	
30	light brown grey	10	25	30	10	15	8	1	1	"												
	35 ft																					

Bar. decreasing

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ROTARY DRILLING RECORD

Hole No. R77-32 | Property West Jason

Coordination 18.45E - 15.95SW | Elev. Collar 4181' | Azimuth 0° | Angle of Hole 90°

Total Depth 28' | Date July 17th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results												Remark
	Color	Constituents (Vol %) Porfer	Arg	phy.	s.s.	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft / m	brownish grey	30	30			10	25 (Gossan)	5		Overburden (Turbidite ≥ Argillite)	185	500	2520								19440	
10	"	35	33	2		8	20 (Gossan)	2	Some	" (Soft rock some - C. Sh. ?) (Argillite ≥ Turbidite)	110	600	2140								19441	
	"	30	40	2		5	20 (Gossan)	3	Some	" (Soft rock some - C. Sh. ?) (Argillite > Turbidite)	110	550	1950								19442	
	"	30	60		?	5	3	2	Some	Argillite intercalated with Turbidite (or mixed ?)	160	304	1710								19443	
20	grey	25	65		5			3	2+	laminated Argillite (pyritized in part)	70	560	1270								19444	
	grey	10	75		5		5 (Gossan)	3	2	laminated Argillite intercalated with Turbidite	60	930	1250								19445	
30																							

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ROTARY DRILLING RECORD

Hole No. R77-33 | Property West Jason

Coordination 5SE-15.23SW | Elev. Collar 4235' | Azimuth 45°SW | Angle of Hole -55°

Total Depth 120' | Date July 17th 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Powder	Arg	phy	C.sh.	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m	light brown	25	25			10	35 (CSIW)	5	some	Overburden (Turbidite > Argillite intensively Fe/Mn stained)	144	600	2440								19453	Bar.? Gl xstal ova
10	"	30	45			15	10	5	some	" (Argillite > Turbidite intensively Fe/Mn stained)	172	680	4770								19454	
	"	25	25			5	40 (CSIW)	5	some	" (Coarse Turbidite > Argillite)	148	1900	9460								19455	
20	grey	35	45			10	5	5	some	" (Argillite > Turbidite)	148	122	7200								19456	
	light brown/grey	60	20	5	5	5	3	2	some	" (")	90	88	6850								19457	
30	light brown	65	10	10	10		3	1+	1+	" (Argillite, Carb. sh. > Turbidite)	87	144	6180								19458	Bar. fragment
	"	65	10	10	10		3	2	some	" (" " > ")	72	75	6570								19459	
40	grey	70	5	5	15	?	2+	2	1+	Some overburden Carb. sh and Arg. intruded with Tb	110	56	6560								19460	
	dark grey	70	10	5	10	?	2	2	1-	Carb. sh. intercalated with Arg & Tb.	104	36	4960	73	5	0.2	3	1	45	73	19461	
	"	75			22			2	1	Carb. shale												
	"	75	2		20			3	rare	"												
	grey	70	15	?	5		3	7	some	Qz veined " with some Argillite												
50	"	65	20	1	5	1	1	7	some	" " with Argillite												
	"	65	20	5	6			5	1	" "	127	103	8170	35	5	0.2	5	1	15	90	19462	
	dark grey	55	15	7	20			3	some	" "												
	"	45	30	15	9			1	some	" "												
	black	55	7	10	25			3		" "												
60	dark grey	70	7		20			3		"												
	black	55	15		25	3		2	some	" laminated with s.s.	154	68	9370	98	12	0.2	5	1	15	275	19463	
	dark grey	60	20	1	10	3	4	2	some	Arg., C. sh. intercalated with Tb												
	grey	40	25	5		5-	25 (CSIW)	some	?	Turbidite intercalated with Arg.?												
70	dark grey	45	20	5		5-	25 (CSIW)	some	?	" (" ?)												
	grey	35	20	5-		5-	35 (CSIW)	some	some	" (" ?)												

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ROTARY DRILLING RECORD

Hole No. R77-33 | Property West Jason

Coordination 5SE - 15.23SW | Elev. Collar _____ | Azimuth 45°SW | Angle of Hole -55°

Total Depth 120' | Date July 17th, 1977 | Logged by K. I. Lu.

ft	Section	Color	Constituents (Vol %) Powder	Arg	Phy.	C.Sh.	Th	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
70		grey	45	20	5mm		5	30 (quartz)	5mm		Turbidite	52	48	7530	62	2	0.2	3	1	5	44	19464	
		"	60	15	5		5-	15-	rare		"												
		"	65	15	5+	5-	1-	5+	3+	1+	"												
		dark grey	50	5			2-	40 (quartz)	5mm	3-	" , Coarser												
80		grey	90	5			5-	40 (quartz)	5	5	" , "												Barite Marcasite
		Light grey	40	5			10	35 (quartz)	5-	5+	" , "	32	74	4260	250	2	0.2	30	11	20	16	19465	marcasite
		grey	35	5-			10+	40 (quartz)	3-	7+	" , "												"
		"	35	5			10+	40 (quartz)	3	7	" , "												"
		"	35	5			10+	40 (quartz)	3	7	" , "												"
90		"	10	20			15	50 (quartz)	3	2	" , "												
		"	30	15	5mm		15-	30 (quartz)	5+	5+	" , "	80	69	8160	103	3	0.2	44	9	15	31	19466	
		dark grey	30	15+			15	35 (quartz)	10+	5-	" , " Qz veined.												
		grey	30	10			20-	30 (quartz)	7+	3-	" , " "												
		"	30	10			20-	30 (quartz)	7	3+	" , "												
100		"	30	10			20	35 (quartz)	7	3	" , " Qz-Sp fragments	640	3920	2730								19467	
		"									Ore mineralized zone	850	>20000	3180	1260	14	52	98	23	20	35	19468	
		"										640	>20000	2550								19469	
		"										1000	>20000	2710								19470	
		"										1420	>20000	2410								19471	Marcasite
110		"										1940	3620	1750	290	12	43	80	31	15	69	19472	
		"										3100	>20000	2470								19473	
		dark grey										1300	>20000	1340								19474	massive marcasite
		"																					"
		"										2350	>20000	1850								19475	"
120		grey									Turbidite	4300	>20000	1220	56	6	520	40	31	35	7	19476	
		120ft																					

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Page 1

Hole No. R77-34 | Property West Jason

Coordination 55E - 15.7SW | Elev. Collar 4224' | Azimuth 0° | Angle of Hole 90°

Total Depth 50' | Date | Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Boulder	Arg	phy	Tb	Rhy	Qtz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft / m	light brown	15	30		10+	35 (GZW)	7+	2+	Overburden (Turbidite > Argillite)	495	3000	2700								19446	
10	"	30	25	5	8-	30	5-	2	" (")	380	3500	3690								19447	
	"	30	25		10	30	3	2	" (")	410	1700	3150								19448	
20	light grey	30	45	20	3		2	Some	" (Argillite > Turbidite)	140	560	7260								19449	Bar ? Sp. ?
	"	25	7		30	30 (GZW)	8	Some	Turbidites (Coarser)	90	356	5810								19450	Bar-Sp. fragments.
30	"	20	10		35-	30 (GZW)	5-	Some	"	165	194	7090								19451	Bar-Sp.-Gl fragments.
40	"	20	5		30	35 (GZW)	10-	Some	"	110	90	7330								19452	Bar. Sp. fragments (Gl.?)
	grey	35	45	5	7-	3-	5	Some	Argillite with some Turbidite intercalated.												
	dark grey	65		33		1	1	Some	Quartz veined phyllitic shale (or "Dirty Conglo")												
50	"	65		30		3+	2-	Some	Quartz veined phyllitic shale mixed with rhyolitic fragment ("Dirty conglo")												
	50 ft																				
60																					

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ROTARY DRILLING RECORD

Hole No. R77-35 Property West Jason

Coordination 1.7 SE - 14.32 SW Elev. Collar 4235' Azimuth 0° Angle of Hole 90°

Total Depth 46' Date Aug. 3rd, 1977 Logged by K. I. Lu

Section	Descriptive Geology										Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	s.s.	Tb	Rhy	Qs	Py		Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m	light grey	15	40	10	20	8	7	rare			53	144	3990								19514	
	dark grey	10	45		25	17	2	1+			64	128	4550								19515	
10	"	25	35		10	22	3	5+			52	144	4530								19516	
	grey	20	40		10	25	2	3+			54	194	3850								19517	
20	"	15	35		10	35 (Gzw)	5	Some			45	195	3000								19518	
	"	10	30	some	17	40 (wzg)	2	1+			40	195	2800								19519	
30																						
40	dark grey	10	40	10	25	13	2	Some			31	130	3540								19520	
	grey	10	35	5	20	20	10	Some			47	180	3650								19521	
40	brownish grey	20	20	10	18	30	2	Some			46	178	3200								19522	water flow out at 43'
46'	"	20	20	10	15	25	5	5			40	260	1750								19523	
										drilling hole caved failed to advance												
50																						

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Page 1

Hole No. R77-36 | Property West Jason

Coordination 1.6SE-17.2SW | Elev. Collar 4197' | Azimuth 0° | Angle of Hole 90

Total Depth 55' | Date Aug. 2nd-3rd, 1977 | Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	S.S.	Tb	Rhy	Q_z	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
0	light creamy brown	20	30	10	25	10	4+	1-	Overburden (Som. Argillite and Turbidite intensively Fe-oxide coated)	133	264	3410								19503	
	brownish grey	10	25	10	30-	23 (Q+W)	1	1+	" (more Turbidite Calcareously Fe(OH)-coated)	70	480	2610								19504	
10	"	20	15	5	30	27- (Q+W)	2	1+	" (Coarser Turbidite > Argillite)	67	248	2970								19505	
	grey	20	30	Some	20-	20+ (Q+W)	8-	2	" (")	68	156	3790								19506	
20	dark grey	30	40	10	14	6	3	1-	" (Argillite > Turbidite)	46	82	5240								19507	
	"	30	15	5	30	17	2	1-	" (Turbidite > Argillite)	43	82	5010								19508	
30	grey	15	45		25	5	4	1-	" (Turbidite ≈ Argillite)	46	112	3340								19509	
40	light brown	20	45		20	5	4-	1+	" (")	37	132	2760								19510	Water flow out at 36'
	brownish grey	20	25		35	18	2	Some	" (Turbidite > Argillite)	78	204	2960								19511	
	grey	15	65		10	7-	3	Some	" (Argillite > Turbidite)	178	232	3280								19512	
50	black	35	55		5	2-	3	rare	" , some bedrock ? (Mostly Argillite, some Turbidite)	103	152	3280	99	24	1.4	47	8	35	360	19513	
	55 ft																				
	20																				

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ROTARY DRILLING RECORD

Hole No. R77-37 | Property West Jason

Coordination 55E - 11.25SW | Elev. Collar 4310' | Azimuth 0° | Angle of Hole 90°

Total Depth 55' | Date Aug. 2nd, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Boulder	Arg.	*Tb	Rhy.	Qz	Py			Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft M	Creamy yellow	15	50	20	15	Some				Overburden, Fe&Mn stained (Argillite > Turbidite)	480	176	2000								19494	
10	light brown	40	30	20	7+	3-	Some			" (" ")	1510	200	2070								19495	
	"	30	60	5	3-	2-	Some			" (" ")	240	113	2230								19496	
20	light brown grey	30	55+	8	3	2+	2			" (" ")	320	272	2010								19497	
	light grey	30	65-	Some	2	2+	1			" (" ")	320	228	1920								19498	
30	grey	25	65-	8-	Some	2	Some			some overburden laminated Argillite,	380	690	1630								19499	
10	"	25	65	5		2	3+			" , Qz veined	360	280	1580	116	4	20	44	1.0	1270	36	19500	
40	"	15	60	10		12	3			" , "	240	136	1690	100	4	20	45	1.4	830	40	19501	
	"	10	75	7		5	3+			" , "	340	74	1980	134	5	30	60	0.2	1700	35	19502	
	"	30	60	5		2-	3+			" , "												
50	"	20	70	3+		2	5			" , "												
55 ft																						
				* fine grained, probably sandstone																		
60																						

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-38 | Property West Jason

Coordination 4.92 SE-9 SW | Elev. Collar 4345' | Azimuth 0° | Angle of Hole 90°

Total Depth 45' | Date Aug. 1st~2nd, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Powder	Arg	Tb	Rhy	Qz	Py			Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m	reddish brown	10	50	30	10	Some	Some			Overburden (Argillite > Turbidite, highly iron-oxidized)	32	268	2480								19486	
10	brown	15	55	20	5	?	?			" (")	50	194	2310								19487	
	"	10	25	40	10	10	5			" (")	32	212	2400								19488	
	grayish brown	10	25	40	10	10	5			" ("	52	256	2350								19489	
20	brown	15	15	25	10	35	?			" , and bedrock Turbidites, highly Qz-veined	48	268	1830								19490	
	light grey	25	10	30	7	25	3			" , "	30	300	1170	3100	10	26	68	1.8	700	270	19491	
30 10	"	20	10	40	20	8	2			" , Quartz veined	30	272	1150	540	8	48	69	1.1	840	65	19492	
	grey	20	10	40	17	8	5			" "	70	302	1110	2800	24	36	120	2.2	2700	190	19493	
40	"	10	10	50	20	7	3			" "												
45 ft																						
20																						

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ROTARY DRILLING RECORD

Hole No. R77-39 Property West Jason

Coordination 5.1SE-7.0SW Elev. Collar 4370' Azimuth 0° Angle of Hole 90°

Total Depth 47' Date Aug. 1st, 1977 Logged by K. I. Lu

Section	Color	Constituents (Vol %) Powder	Arg	Phy	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft / m	brown	25	40	20	5+	8	2		Overburden	320	1020	3290								19477	
10	"	25	40		25	5	4	1	"	116	440	2470								19478	
	"	30	40		20.	5	3+	2-	"	68	196	2370								11479	
20	"	15	40	25	10	5	3	2	"	54	196	2520								11480	
	brownish grey	25	50	10	7	3	5		Some overburden Bj veined laminated Argillite,	48	128	2530								11481	
30	grey	30	65	Some	2.*		3-	Some	" (slightly silicified)	46	265	2280								11482	
	"	20	55	10	10.*		5-	Some	" (slumped Some ?)	43	372	2440	137	7	7.0	73	16	330	75	11483	
	"	30	60+		5-*		5+	Some	"	42	347	2590	144	6	8.6	80	18	490	91	11484	
40	"	20	70	Some	5+*		5-	rare	"	40	216	2670	174	6	7.8	62	16	255	86	11485	
47ft	"	10	85+	rare			5-	rare	"												

* : fine grained, probably sandstone

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-40 | Property West Jason

Coordination 1.8 SE - 12.75W | Elev. Collar 4268' | Azimuth 0° | Angle of Hole 90°

Total Depth 451' | Date Aug. 4th, 1977 | Logged by K. L. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	S.S.	Tb	Rhy.	O_3	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m	brownish grey	10	30	10	35	11 (G22N)	2+	2-	Overburden (Turbidite ≥ Argillite) highly ironmanganese	40	128	4100								19524	
10	dark grey	15	25	15	20	23 (G21N)	2	Some	" (" ")	45	96	4490								19525	
	grey	10	40		30	15 (G22N)	3+	2-	" (Argillite ≥ Turbidite)	47	184	3890								5001	
	"	5	45	20-	20	8	2	Some	" (Argillite > Turbidite)	46	224	4420								5002	
20	light brownish grey	5	25	5	28	35 (G22N)	2	?	" Coarser (Turbidite > Argillite)	51	272	3340								5003	
	"	10	20	10-	31	25 (G21N)	3	1+	" (" ")	45	196	3400								5004	
30	"	20	15	5	40	18 (G22N)	2	1	" (" ")	44	236	3590								5005	
	"	15	25		35-	20- (G22N)	5+	Some	" (" ")	43	244	3620								5006	
40	grey	10	40	10	25	8	7-	Some	" (Argillite ≥ Turbidite)	44	208	3140								5007	
	451ft								drilling hole caved failed to advance													
	20																					

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ROTARY DRILLING RECORD

Hole No. R77-41 Property West Jason

Coordination 10NW-16SW Elev. Collar 4256' Azimuth 0° Angle of Hole 90°

Total Depth 84.5' Date Aug. 4th–5th, 1977 Logged by K. I. Lu

Section	Descriptive Geology: Color	Constituents (Vol %): Ander	Arg	Tb	Rhy	Qz	Py	Geology	Assay Results: Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
0	light grey	10	30	30	25	5	some	overburden (Turbidite > Argillite)	40	44	5630								5008	
10	"	35	30	25	5+	3+	2-	" (" = ")	38	140	3560								5009	
	grey & light grey	25	30	20	20	4+	1+	" (" > ")	41	102	4440								50010	
20	dark grey	65	20	6	4-	5+		" (clayey Argillite > Turbidite)	40	112	4490								50011	
	grey	60	20	5	10	5	some	" (" " ")	44	232	4280								50012	
30	"	70	20	2	5-	3	?	" (" - -)	55	272	3590								50013	
	"	90	7		2	1		" (mostly clay some Arg. & Tb Rhyolitic rock)	47	330	3080								50014	
40	"	95	3		1	1-		" (")	55	340	3060								50015	
	brownish grey	15	60	15	8-	2	some	" (")	39	160	2380								50016	
50	grey	55	20-	15-	10-	some	some	some overburden fault zone, Assorted rocks	58	106	2830								50017	
	"	10	20	35	30	3+	2-	" "	33	80	3810								50018	some massive pyrite
60	lightbrownish grey	30	15+	35+	15-	4-	1+	" "	32	80	7730								50019	
	light grey	25	20	30	22	3	rare	" "	34	68	2850								50020	
70	"	20	40	25	13	2	some	" "	30	56	4290								50021	
	grey	30	10	20	35	4	1-	" "	32	103	4170								50022	
80	brownish grey	30	10	30	30	some	rare	" "	34	120	3430								50023	
	dark grey	30	15	25-	30	some	rare	" "	41	74	4820								50024	
84.5ft																				

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ROTARY DRILLING RECORD

Page 1

Hole No. RT7-42

Property West Jason

Coordination 4.94 NW-18SW Elev. Collar 4180' Azimuth 0°

Angle of Hole 90°

Total Depth 40' Date Aug. 5th, 1977

Logged by K. L. Lu

Section	Descriptive Geology										Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	Tb	Rhy	Qz	Py			Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m	greyish brown	20	30	20	30	Some				Overburden (Turbidite >> Argillite)	52	240	4190								5025	Fe oxide stain remarkable
10	grey	15	40	25	15	5	Some			" (Turbidite ≥ Argillite)	52	200	3410								5026	
	"	25	55	10	10	Some				" (Argillite >> Turbidite)	72	288	4190								5027	
20	brownish grey	25	35	25	12	3	Some			" (Argillite ≥ Turbidite)	50	368	4180								5028	
	grey	30	40	20	7	3	rare			" (Argillite > Turbidite)	40	260	3680								5029	
30	"	20	50	20	8	2	Some			" (Argillite >> Turbidite)	42	208	3650								5030	
10	"	10	50	30	10	Some	rare			" (Argillite ≥ Turbidite)	72	220	890								5031	
40	brownish grey	20	45	30	5	rare	rare			" (Argillite >> Turbidite)	54	188	3520								5032	
	40ft																					

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ROTARY DRILLING RECORD

Hole No. R77-43 | Property West Jason

Coordination 5SE - 11.75SW | Elev. Collar 4301' | Azimuth 45° NE | Angle of Hole 60°

Total Depth 198' | Date Aug. 5th - 7th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results												Remark
	Color	Constituents (Vol %)								Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
		Amph	Arg	Phy	S.S.	Tb	Rhy	Qz	Py														
0	light brown	25	75							Overburden (Argillite only)	211	296	2390								5033	
	"	30	65		2			3		" (Laminated Argillite)	304	114	2140								5034	
	"	35	45		15			5		" (")	630	263	2070								5035	
	"	20	70		8			2	some	" (")	790	530	1710								5036	
	"	30	65		2			some	3	" (")	490	144	1470								5037	
	"	30	65		1			2	2	" (")	820	220	1910								5038	
30	brownish grey	20	75		1			1	3	Some overburden laminated Argillite	750	105	1930								5039	
	grey	15	75		2			3	5	"	780	480	1790	400	6	0.7	94	40	1800	37	5040	Some massive pyrite.
	"	30	60		2			5	3	"												
	"	20	70		1			2	3	"												
50	"	20	65		7			3	5	"												
	"	20	70		3			2	5	"												
60	"	40	35		10	8?		5	2	Laminated Argillite (Some fine Turbidite?)	196	122	1810	116	5	0.2	47	20	1400	38	5041	Bar. Sand
70	"	30	60			5?		3	2	" (" ?)												
	"	35	55			5+		3	2+	" (" ?)												Hole caved extra gravel round chips Bar. Sand
80	brownish grey	25	60		5	6		2	2+	" (")												round chips
	"	20	65			9		3	3	Argillite intercalated with some fine Turbidite												some round chips
90	"	20	65			10		4	1	"												
	"	25	45			18	7	3	2	Turbidite and Argillite (alternated?)	168	625	2050	81	6	0.5	35	10	380	40	5042	Sp. few.
100	dark grey	15	60	10		7	2	3	3	Turbidite (slumped?)												Sp. Some

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ROTARY DRILLING RECORD

Hole No. R77-43 (continued) Property West Jason

Coordination 55E -11.75SW Elev. Collar _____ Azimuth 45° NE Angle of Hole 60°

Total Depth 198' Date Aug. 5th-7th, 1977 Logged by K. I. Lu

ft	Section	Color	Constituents (Vol %) Powder	Arg	Phy.	s.s.	Tr	Rbr.	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
100		grey	20	70			5-		2	3+	Argillite (laminated some)	325	137	1690	84	6	0.2	52	30	950	37	5043	
110		"	15	50	5		25		2+	3-	laminated Argillite alternated with fine Turbidite												
		brownish grey	20	65	5		5	Some	3-	2-	Slumped Argillite (with some Turbidite mixed)												
120		"	20	70	1+		5!		3	1+	Argillite laminated some (slightly slided)												
		grey	15	75		4			4+	2-	laminated Argillite												
130		"	20	65	5-	5+			3-	2-	laminated Argillite with some slided												
		"	20	65-	5+	8-			1	1-	"												
140		"	10	75	5+	3	3-		1+	3-	Slumped Argillite with some turbidite												
		"	15	75		5+			1-	4-	laminated Argillite												
		"	10	50	35	3			1	1	Slided (& slumped) Argillite												
150		"	15	60	20	3				2	" "	108	158	1910	125	4	0.2	52	20	2200	34	5044	
		"	10	70	10	5			3+	2-	" "												
160		"	10	45	25-	10-	3+		4	3+	" " with some Turbidite												
		"	10	50	20	8	4		5	3+	" "												
170		"	10	50	25	12	1-		1	1+	" "												
		"	10	65-	10	13-			1-	1+	" "												
180		"	20	55	15	6			1+	3+	" "	240	146	1620	85	4	0.3	36	20	1700	44	5045	
		"	10	70		10-			4+	2+	laminated Argillite with some Turbidite alternated												
190		"	10	70-		10-	3-	Some	6	1+	" " "												
			15	75		5	1		1	3	" " "	112	72	1900	94	3	0.2	40	33	1700	35	5046	

198'

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ROTARY DRILLING RECORD

Page _____

Hole No. R22-44 Property West Jason

Coordination 28.9SE-1.8SW Elev. Collar 3894' Azimuth 0° Angle of Hole 90°

Total Depth 70' Date Aug. 7th~8th, 1977 Logged by K. I. Lu

ft	Section	Color	Constituents (Vol %) Powder	Arg	C.sh.	Tk	Rhy	O₂	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
		light creamy brown	10	30		20	30	10-	Some	overburden												
10		dark grey	35	35		10	10	10		(Turbidite ≥ Argillite)	40	3000	2440								5047	Bar.?
		black	50	15		10	20	4	1	" (Turbidite ≥ Argillite)	26	400	2760								5048	Bar.?
20		"	65	7-	Some	8	15	3+	2-	" (Turbidite > Argillite)	26	415	2610								5049	
		"	65	7-	Some	8-	15	3+	2+	" (")	24	360	2770								5050	
30		light black	50	10		15	21-	2	2+	" (")	25	400	2550								5051	
		dark grey	30	15		15+	30	7+	3-	" (")	48	330	2350								5052	Bar.
40		grey	35	15		12	30	3-	5+	" (mostly Turbidite)	25	220	1860								5053	Bar.?
		"	25	40-		15	17+	1+	2-	" (")	22	1600	1830								5054	Some massive Pyrite
		"	30	35-	Some	10	20	3+	2	" (Argillite ≥ Turbidite)	24	1820	2310								5055	
50		black	30	50		10	6	1	3	" (Argillite ≥ Turbidite) and bedrock	20	465	2000								5056	
		dark grey	35	40	10+	10?		Some	5-	Mainly laminated Argillite	82	420	4320								5057	
60		black	55	30-	10+	Some?		Some	5	laminated Argillite (Pyritized partly)	68	196	5610	133	7	0.9	60	11	50	81	5058	
		light black	65	20	10+				5-	Carbonaceous shale alternated with laminated Argillite (")	46	152	6970	90	21	0.8	84	10	30	94	5059	
70	70 ft									" (")	32	120	7190	220	22	0.4	82	12	30	122	5060	

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-45 | Property West Jason

Coordination 29.5 S6-2NE | Elev. Collar 3874' | Azimuth 0° | Angle of Hole 90°

Total Depth 37 | Date Aug. 8th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Powder	Arg	s.s.	C.sh	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m	brown	10	20			40	8-	2+		Overburden (mainly Turbidite)	32	410	3130								5061	
	"	15	20			50-	13-	1+	1+	" "	36	780	2740								5062	
10	brown & grey	25	25			17-	30-	2+	1+	" (Turbidite & some Argillite)	24	1120	2450								5063	
	brownish grey	50	10			20	15-	3	2+	" (")	26	2250	2330								5064	
20	grey	25	30		Some	20-	17	3	5+	" (Turbidite ≥ Argillite)	32	650	2400								5065	
	grey	20	30	20	Some	10-	17-	1+	2+	" (Turbidite ≈ Argillite) and bed rock	48	590	2200								5066	
30	Light grey	10	35	20		15	17-	2	1+	Turbidite & some Argillite	37	840	2600								5067	
37ft 10	grey	15				80-	2	2	1-	fine fragmented Turbidite	59	387	2700	78	8	3.9	88	14	240	49	5068	
40																						

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-46 Property West Jason

Coordination 29.6SE-2.1NE Elev. Collar 3862' Azimuth 0° Angle of Hole 90°

Total Depth 18' Date Aug. 8th, 1977 Logged by K. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Pyrite	Arg.	Tb	Rhy	Qz	Py			Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft	grey	30	30	25	10	3	2			overburden (Turbidite > Argillite)	32	940	2580								5064	Mineralized fragments
10	dark grey	35	10	35	17	2	1			" (mainly Turbidite)	38	1240	2450								5070	"
	Waterly	no Sample								"												
		"		"						"												
20	18ft									hard rock, failed to penetrate												
10																						
20																						

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-47 | Property West Jason

Coordination 29.7 SE - 4NE | Elev. Collar 3846' | Azimuth 0° | Angle of Hole 90°

Total Depth 27' | Date Aug. 8th - 9th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Pyrite	Arg	S.S.	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft / m	black	35	30		20-	12-	2+	1+	Overburden (Turbidite with some Argillite)	34	620	3320								5071	
10	dark grey	60	10		15	10	4-	1+	" (Mainly Turbidite)	29	880	680								5072	Marcasite mass. few.
	grey	30	15		30	18	4	3	" (")	30	630	1890								5073	" some
	grey	25	10	30 ?→	20-	12-	1	2+	" (")	64	700	2230								5074	" & barite some
20	grey	20	25	20 ?→	32		1+	2+	" (")	40	2650	2080								5075	Marcasite mass.
27ft	grey	15	20		55-	7-	1+	2+	" (")	42	400	1740								5076	
									drilling rod broken hole stopped.													

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ROTARY DRILLING RECORD

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Hole No. R77-48 | Property West Jason

Coordination 20SE-20SW | Elev. Collar 4074' | Azimuth 0° | Angle of Hole 90°

Total Depth 871 | Date Aug. 9th, 1977 | Logged by K. I. Lu

Section (ft)	Color	Constituents (Vol %) Powder	Arg	SS	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
0	light brown	25	30	some	25-	18	2		overburden (Turbidite > Argillite highly coated by Fe(OH)3)	550	275	7840								5092	
10	brown	45	25		20	7	3		" (")	131	295	3150								5093	
	"	40	15		40-	5	Some		" (Mainly Turbidite)	76	305	3350								5094	
20	black	35	20		40	3	2		" (")	118	660	6190								5095	Bar. chips
	dark grey	30	20		30	15	3	2	" (")	110	440	4610								5096	Bar. few
30	"	30	20		25	20	3-	2+	" (")	111	580	4040								5097	Bar. Sand
40	grey	25	20		30	20	3-	2+	" (")	85	360	3150								5098	Bar. few
	"	20	30		35	10	3+	2-	" (Turbidite > Argillite	92	285	2700								5099	massive Py chips
	dark grey	20	20		35	20-	3+	2+	" (Turbidite >> Argillite	104	240	3060								50100	massive Py chips & Bar.
50	"	25	15		25-	30-	3+	2+	some overburden Turbidite (Some Argillite)	180	520	3710								50101	
	"	15	10	5	35	30	4-	1+	" (" ?)	400	685	5400	75	6	4.2	30	8	210	76	50102	
60	"	30	20	?	25	20	4	1	" (" ?)	195	550	4510	72	5	1.6	28	8	170	82	50103	
	grey	20	30		35	11-	3	1+	Turbidite (with Argillite intercalated or Arg. fragments ?)	160	460	4860	70	5	1.4	28	8	260	79	50104	
70	"	20	35		30	10	2+	3-	" (" ?)												
	"	15	35	5	30	5	7-	3+	" (" ?)												
80	"	10	10		70-	5	Some	5+	Turbedite												Bar.? some Py framboidal clusters
	"	20	25		35	12	5	3+	Turbidite												Sp. grains some
87ft																					

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ROTARY DRILLING RECORD

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Hole No. R77-49 Property West Jason

Coordination 20SE-22SW Elev. Collar 4045' Azimuth 0° Angle of Hole 90°

Total Depth 87' Date Aug. 9th~10th, 1977 Logged by K. I. Lu

Section	Color	Constituents (Vol %) Powder	Arg	C.st	S.S.	Tk	Rhy	Cg	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft	light brown	15	20		5	20	35 (some)	5		Overburden (mainly Turbidite, slightly Fe/Mn stained)	610	340	12200								5077	
	"	10	25			35	28	2		" (")	980	208	16400								5078	
10	"	30	25		5	12	25	3		" (")	340	295	8560								5079	Bar. Sand
	brownish gray	30	20		Some	30	15	5		" (")	300	1320	6290								5080	Bar. Sand and chips
20	light brownish gray	35	20			25	18	2		" (mainly Turbidite)	240	1110	6460								5081	Bar. sand Some
	dark gray	30	15			40	14	1+		" (")	98	390	3440								5082	Bar. Sand Some
30	light black	30	10			42	17	3	Some	" (")	147	490	4060								5083	
	gray	15	20			35	25	4+	1-	" (")	97	260	3070								5084	
40	"	20	10			45	22	2	1+	" (")	131	288	3460								5085	
	dark gray	20	20		Some	30	20 (coarse)	5+	1-	" (" , Some Arg)	128	265	3320								5086	Gl-Q veinlet in Turbidite
50	gray	20	30	5		20	20	4-	1-	" (" , ")	106	355	3580								5087	
	"	20	30			30	17	2-	1+	" (" , ")	107	940	3620								5088	one py. rare Bar.
60	dark gray	30	30			25	12	3	Some	" (Turbidite and Argillite)	70	1260	3050								5089	
	dark gray	20	40		Some	20	15	3+	2-	Some overburden (Argillite > Turbidite	53	890	2090	70	7	3.8	32	6	70	60	5090	Bar. Bar-Gl chips.
70	"	20	40	5		20	10	3+	2-	Argillite with Turbidite fragment (or layers?) mixed.	62	1100	2060	78	8	9.0	41	8	65	67	5091	
	brown & gray																					fault zone at 79'
80	"		fault zone mixed with overburn rocks			Assorted rock				not for assay												
	"																					
87'																						

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ROTARY DRILLING RECORD

Hole No. R22-50 | Property West Jason

Coordination 19.75E · 24.5N | Elev. Collar 4008' | Azimuth 0° | Angle of Hole 90°

Total Depth 78' | Date Aug. 10 | Logged by K. I. Lee

Section	Descriptive Geology										Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	C.Sh	S.S.	Tk	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft / m	pinkish cream	30	20		3	20	20_	5	some	Overburden (mainly Turbidite / Bar sandstone ~2%)	550	335	53300								5105	Ore float (1'ϕ) beside the hole
10	light brown	30	20		3	30	10	5-	some	" (" ~2%)	650	590	41500								5106	Same as above, Bar and ~2 wks.
	grey	30	25		5	10	25 (Carb)	5_	some	" (Turbidite ≥ Argillite)	215	590	8100								5107	Bar. Some (calcspar stringers)
	"	35	25		5	25	9	1	some	" (" > ")	195	590	8510								5108	Bar rare
20	black	35	15			40	7	3	?	" (Turbidite)	190	520	6120								5109	Bar. rare
	brownish gray	65	10			5	18 (wtz)	2		" (Turbidite & clay)	130	370	4830								5110	
30	"	50	5		3	20	20 (wtz)	2		" (" ")	75	750	3160								5111	
	dark grey	55	10		4	5_	25- (wtz)	1+	some	" (" ")	65	270	3060								5112	
40	"	60	8		5_	6_	20 (wtz)	1+	rare	" (" ")	66	205	2820								5113	
	"	55	10+		5_	15	12	3-	some	" (Turbidite, Arg? & clay)	95	280	2980								5115	
50	"	35	25		5	20	10	3	2	" and some bedrock (Argillite ≥ Turbidite)	85	405	2800								5115	
	black	70	15	3	2	5	3	2		Carbonaceous shale alternated with Argillite and Turbidite	80	1010	3200	65	20	8	100	12	1050	270	5116	some graphite
60	dark grey	70	20	5	5					Carbonaceous shale alternated with laminated Argillite	117	1550	2140	62	32	11	115	15	1500	540	5117	
	"	75	20-	5_	some			some		"	52	675	1190	36	30	5	87	10	525	560	5118	
70	"	65	25	6+	3_			1		"												
78'																						

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ROTARY DRILLING RECORD

Hole No. R77-51 Property West Jason

Coordination 18.8 SE - 25.8 SW Elev. Collar 3962' Azimuth 0° Angle of Hole 70°

Total Depth 55' Date Aug. 10th, 1977 Logged by K. I. Lay

Section	Color	Constituents (Vol %) Pyrite	Arg	C.Sh.	S.S.	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft m																						
0	black	65	8-	Some		15	10	2-		Overburden (Carbonaceous clay > Turbidite)	87	910	3000								5119	Very poor recovery at 0'-5' (~5%) and 5'-10' (~30%)
10	grey	50	20	Some	10	15	3	2		" (Argillite C. carb. clay > ")	73	640	3210								5120	
	dark grey	70	10	Some	5	8	5	2	some	" (" " ")	60	390	2800								5121	
20	"	70	12	Some	3	10	3	2	Some	" (" " ")	45	305	3100								5122	
	grey	35	10	Some	40	10	3	2		" (Turbidite > Argillite)	95	550	5360								5123	
30	light black	70	25	Some	5	5				" and some bedrock (Carbonaceous clay and Arg.)	25	750	1790								5124	
	black	75	20	2	3					Carbonaceous shale alternated with Some. Argillite	36	880	1660								5125	
40	"	60	35+	3				2-		"	30	800	1710	51	37	14	115	10	400	113	5126	
	"	60	35	5-					Some	"	23	920	1600	43	50	12	125	15	375	127	5127	
50	grey	30	50	10	8				2	"	28	550	1600	73	25	6	135	15	375	184	5128	
	55ft																					

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ROTARY DRILLING RECORD

Hole No. R77-52 Property West Jason

Coordination 35NW-21SW Elev. Collar 4413' Azimuth 0° Angle of Hole -90°

Total Depth 48' Date Aug. 10th, 1977 Logged by K. I. Ley

Section	Color	Constituents (Vol %) Powder	Arg.	Calc.	S.S.	Tf	Rhy	Py	Py.	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft																						
0	light creamy brown	60	10		25	3		2		Overburden	30	310	1630								5129	
	"	50	25		12	10		3		" (Laminated Argillite)	35	80	1440								5130	
10	white and grey	40	2		5	10	20	5		" (Turbidite, clay & Arg.)	45	75	1740								5131	
	"	55	20	Some	8	10		7		" (" , " & ")	91	105	1670								5132	
20	grey	60	30		5	3	2			" , and some bedrock (clay, Argillite & minor Turb.)	74	30	1160								5133	
	black	60	30	6	3			1		Carbonaceous shale alternated with lam. Arg. (Some phyllitic)	93	120	1150	8	15	0.2	12	<1	10	33	5134	
30	dark grey	55	40	Some	4			1	Some	"	50	50	800	13	10	0.2	10	<1	5	17	5135	
	black	60	35	Some	3			2		"	70	70	820	15	10	0.2	10	2	25	26	5136	
40	"	60	35	Some	5			Some		"												
	light black	45	30	18	7			1	Some	"												
	48'																					
50																						

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ROTARY DRILLING RECORD

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Hole No. R77-53 | Property Alest Jason

Coordination 35NW-19SW | Elev. Collar 4444' | Azimuth 0° | Angle of Hole 90°

Total Depth 45' | Date Aug. 10th~11th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Powder	Arg	C.sh.	S.s.	Tb.	Rhy.	Qz.	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft																						
	creamy grey	30	20		50					Overburden (Lam. Argillite and some fine Tb)	55	170	2700								5137	
	light grey	30	40		15	10	3	2	Some	" (Lam. Argillite & Tuchuite)	43	230	1540								5138	
10	white & grey	50	40		10				Some	" (Lam. Argillite & clay) (Some fine Tb)	50	15	1320								5139	
	brownish grey	40	50		5	3		2		" (Lam. Argillite, clay & Tb)	32	10	1440								5140	
20	"	40	46	Some	10			4	Some	" (Lam. Argillite & clay)	46	20	1350								5141	
	light grey	65	40		4			1	Some	" and bedrock (Lam. Argillite & clay)	38	10	1330								5142	
30	black	60	30	5	5			Some		Carbonaceous shale alternated with lam. Argillite	31	15	1040	4	7	<0.2	10	1	5	21	5143	
	"	60		38	2					lam. carbonaceous shale	35	30	900	1	10	<0.2	7	1	5	24	5144	
40	"	90		8	2					"	45	64	870	19	8	<0.2	7	2	10	25	5145	
	45ft																					
	50																					

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ROTARY DRILLING RECORD

Hole No. R77-54 | Property West Jason

Coordination 35NW-115W | Elev. Collar 4658' | Azimuth 0° | Angle of Hole 90°

Total Depth 65' | Date Aug. 11th, 1977 | Logged by K. I. Ley

Section	Descriptive Geology: Color	Constituents (Vol %): Ander	Arg	phy.	s.s.	Tb	Qz	Geology	Assay Results: Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
0 ft	brown	60	20	20				Overburden (Clay > Arg > Phy bleached)	21	65	2110								5146	
	"	60	20	15		3	2	" (")	30	30	2320								5147	
10	light grey	50	5	30	5	7	3	" (clay, phy, Arg. and some pyrite throughout)	27	30	2040								5148	
	brown	55	25	7	10	2	1	" (")	22	65	2150								5149	
20	light brown	50	20	25	3	Some	2	" (clay and phy. Arg.)	19	20	2120								5150	
	dark brown	45	10	38	5	1	1	" (")	19	60	2140								5151	
30	brown	45	15	38	2	Some		" (")	16	40	2090								5152	
	brownish grey	45	15	35	5		Some	" (")	18	55	2150								5153	
40	brown	50	10	30	8	2	Some	" (")	19	40	2230								5154	
	brownish grey	55	15	22	8		Some	" (")	24	40	1910								5155	
50	light grey	65	8	20	6		1	Some overburden; Carbonaceous shale & phyllitic Arg	27	26	2210	37	8	<0.2	10	2	50	87	5156	
	"	60	25	5	10		Some	Carbonaceous shale alternated with lam. Arg. (partly slumped?)	31	22	1960	40	4	<0.2	8	2	30	74	5157	
60	"	60	25	3	10		2	" (" ?)	27	28	2030	43	4	<0.2	10	2	50	83	5158	
65 ft																				

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ROTARY DRILLING RECORD

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Hole No. R77-55 | Property West Jason

Coordination 35 NW-23 SW | Elev. Collar 4355' | Azimuth 0° | Angle of Hole 90°

Total Depth 55' | Date Aug. 11th, 1977 | Logged by K. I. Lu.

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Powder	Arg	phy	C.sh	s.s.	Tr.	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
0 ft	m. light brown	55	20			25	Some			Overburden (lam. Argillite)	34	210	2010								5159	
10	"	40	20	8		30	Some	2		" (")	55	295	1650								5160	
	brownish gray	25	25	18		30	2	Some		" (")	56	30	2500								5161	
20	"	30	20	20		28	2	Some		" (")	65	105	1580								5162	
	grey	30	40		5	25		rare		" (" , & C. shale)	55	40	750								5163	
30	"	35	30		10	25		Some		" , and some bedrock Carbonaceous shale & lam. Arg	93	30	820								5164	
	"	25	35		13	25		2		Carbonaceous shale alternated with lam. Arg.	48	24	680	26	12	0.2	7	2	20	31	5165	
40	"	25	60		5	10		Some		"	26	40	5070	11	8	<0.2	10	2	5	43	5166	
	"	30	20		20	30		Some		"	60	48	550	26	10	<0.2	10	2	15	26	5167	
50	"	30	35		5	30		Some		"												
	"	20	55		14	10		Some	1+	"												
55ft																						

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ROTARY DRILLING RECORD

Hole No. R77-56 Property West Jason

Coordination 35 NW-25 SW Elev. Collar 4315' Azimuth 0° Angle of Hole 90°

Total Depth 40' Date Aug. 11th, 1977 Logged by K. I. Lu

Section	Descriptive Geology									Assay Results											Remark
	Color	Constituents (Vol %) Powder	Arg	C.sh	S.S.	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #
0	Lt. Yellowish brown	20	43		35		?	2	some	overburden (lam. Argillite)	27	226	1420								5195
	"	20	50	5	20	4	some	1	some	" (lam. Arg. and some fine Tb)	44	320	2540								5196
10	Light yellowish brown	20	50	8	20	2		some		" (lam. Arg. and C. sh)	109	380	2540								5197
	Light brownish grey	30	20	30	20			some		" (" ")	75	273	1120								5198
20	grey	35	15	35	10			3	2	" and some bedrock (" ")	42	127	980								5199
	"	30	20	35	13			1+	1+	Carbonaceous shale alternating with lam. Argillite	30	195	670	97	21	0.8	27	5	45	50	5200
30	"	30	25	37	5			1	2	"	45	300	580	126	19	0.3	34	5	128	58	5201
	"	30	30	30	5			some	1	"	28	200	510	102	8	0.2	34	5	50	58	5202
40	40ft																				

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ROTARY DRILLING RECORD

Hole No. R77-57 Property West Jason

Coordination 35 NW-27SW Elev. Collar 4290' Azimuth 0° Angle of Hole 90°

Total Depth 50' Date Aug. 12th, 1977 Logged by K. I. Lu.

Section	Color	Constituents (Vol %) Powder	Arg	C.sh	S.s.	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
0 ft	light brown	20	20		35	25		Some		Overburden (Lam. Arg ≈ fine turbidite)	24	220	1600								5203	
10	brown	25	15		25	30	4	1	Some	" (Turbidites ≈ lam. Argillite)	19	279	1330								5204	
	light brownish grey	15	25		32	25	2	1+		" (Turbidites ≈ lam. Arg.)	14	258	1340								5205	
	grey	20	10	15	30	25		Some		" (C. sh, fine Tb and lam. Arg)	22	620	1500								5206	
20	black	10	60		30					" (lam. Argillite)	40	1010	1320								5207	
	reddish brown	15	55		30					(some overburden mixed ?) highly Fe oxide stained lam. Argillite	18	1090	1140								5208	
30	dark brownish grey	20	60	8	10			Some	2+	Carbonaceous shale alternated with lam. Arg.	19	205	820	51	7	0.6	51	8	15	30	5209	
	dark grey	15	65	8	10			Some	2	"	16	340	940	78	9	1.0	97	12	38	75	5210	
40	black	40	22	35					3	"	20	300	780	220	10	3.1	77	10	10	55	5211	
	black	30	28	40				Some	2+	"												massive Py chips.
50	50 ft																					
	20																					

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-58 | Property West Jason

Coordination 35NW-29SW | Elev. Collar 4287' | Azimuth 0° | Angle of Hole 90°

Total Depth 50' | Date Aug. 10th, 1977 | Logged by K. L. Lu

Section	Descriptive Geology										Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	phy	s.s.	Tb	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m	light brown	15	40	13	25	5	1	1		Overburden (Argillite >> Turbidite)	34	380	1770								5168	
	"	10	20	23	20	10	15	2		" (Argillite > Turbidite)	26	340	1930								5169	
	light brownish grey	10	25	10	15	20	15	5		" (Turbidite > Argillite)	33	350	3120								5170	
	brownish grey	10	70	8	10			2		" (lam. Argillite)	34	550	2940								5171	
	grey	10	20	45	20			2.	3+	(some overburden ?) lam. Argillite (phyllite in part) (slumped & slided ?)	25	430	8950								5172	
	"	15	10	45	25			1	4+	Slumped & slided lam. Arg. ("Dirty conglo" ?)	19	336	750	205	23	3.2	58	11	140	59	5173	
10	"	30	30	20	10			7.	3+	"	18	460	790	260	31	3.9	73	10	155	68	5174	
	dark grey	30	50		10			10	Some	lam. Argillite (Qz veined)	19	440	590	240	27	3.3	66	8	160	75	5175	
	grey	25	55		10			8	2	"												
	dark grey	25	55		10	3	5	2	Some	lam. Argillite alternating with Turbidite ... (or Dirty conglo?)												
20																						

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-59 | Property West Jason

Coordination 35NW-33.25W | Elev. Collar 4290' | Azimuth 0° | Angle of Hole 90°

Total Depth 50' | Date Aug. 12th, 1977 | Logged by K. I. Lee

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	C.sh.	s.s.	Tk.	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
0ft	m light grey	15	35		15	20-	15 (wxg)	Some		Overburden (Argillite > Turbidite)	30	580	2000								5176	
	"	15	30		15	20	15 (wxg)	5		" (" ")	25	430	2010								5177	
10	"	15	30		20	25	7	3		" (" ")	40	360	3280								5178	
	grey	20	65		10	4	1	3	2-	" (Argillite ≥ Turbidite	32	360	3550								5179	
20	light grey	15	20		5	40	12 (wxg)	8-	Some	" and bed rock. (Turbidite ≥ Argillite)	27	810	2460								5180	
	grey	20	65		10			Some	5+	Partly pyritized lam. Argillite with some Pyrite beds.	35	650	2020								5181	massive Py chips.
30	dark grey	25-	60-	3+	10-			Some	2-	lam. Argillite with some Carbonaceous beds	18	720	790	305	30	1.2	44	8	40	36	5182	
	"	25	60	4	5			Some	6+	" and pyritebal	25	470	1010	245	24	6.4	61	8	60	83	5183	massive Py Chips.
40	black	30	55+	6	5-			Some	4	4 "	21	580	1260	220	37	8.2	55	8	40	35	5184	"
	grey	25	60	6	7-				2+	"												
50	50ft																					

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Page 1

Hole No. R77-60 | Property West Jason

Coordination 35 NW-35SW | Elev. Collar 4289' | Azimuth 0° | Angle of Hole -90°

Total Depth 50' | Date Aug. 13th, 1977 | Logged by K. I. Lee

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	C.sh.	S.S.	Th	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
0	dark brownish grey	95	1+			2-	2-			Overburden (mostly peats roots etc. rock chips: Rhy = Th < Arg)	48	690	2280								5185	Very poor recovery (~10%)
10	grey	5	60			25	10-	Some		(Argillite > Turbidite)	59	680	2100								5186	
	"	25	30		15-	22-	3	5+	Some	(Lam. Arg. ≈ Turbidite)	60	520	2900								5187	
	"	30	45		12	6	2	5-	Some	(Lam. Arg. > Turbidite)	35	240	3430								5188	
20	"	30	35		7	15	10	3-	Some	(Lam. Arg ≥ Turbidite)	42	215	3320								5189	
	"	30	15		20	15	13	7	Some	(Turbidite > Argillite)	40	240	3180								5190	massive Py some.
30	dark grey	15	70		10	2		1-	2	Some overburden laminated Argillite	33	690	1650								5191	
	"	15	65	10	9+	?			1-	laminated Argillite with some Carb. shale alterat'n	38	1020	1810	161	24	2.2	128	12	130	38	5192	
40	"	30	40	12	8-	9			1+	laminated Argillite with some C.S.h., (and fine turbidite?) altn.	340	560	1450	46	27	5.3	84	4	110	91	5183	Sp. fine grain some.
	grey	30	35-	10	22	5			Some	"	37	730	2280	117	22	2.9	108	12	150	58	5184	
50	50'																					
	20																					

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Page 1

Hole No. R77-61 | Property West Jason

Coordination 35NW-34.5SW | Elev. Collar 4288' | Azimuth 0° | Angle of Hole 90°

Total Depth 45' | Date Aug. 13th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg.	S.S	Phy.	Tk.	Rhy	Qz	Pyr	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft / m	light brown	90	5	3	2					Overburden (mainly peats and roots. Some Arg., S.S. & phyllitaceous)	300	1800	1770								5212	poor recovery cuttings mainly Anth. mat.
	brown	90	4	2	3			1		" (")	430	2800	1360								5213	"
10	brownish grey	30	30	25	6	5	2	1		" (clay. Arg. >> Turbidite)	104	1220	2450								5214	Calcite 1%
	"	65	15-	15+		3		2		" (clay >> Arg = fine Turbidite)	34	241	3020								5215	
20	"	60	15	17		3	4-	1	Some	" (")	31	580	1890								5216	
	grey	65	20	12		1+		Some	2-	" (clay >> Argillite)	14	1110	1120								5217	
30	"	65	25	7+				2	1-	" and some bedrock laminated Argillite	6	740	640								5218	
10	"	25	65					10		Qz veined Argillite (massive?)	12	410	580	40	4	3.8	23	8	450	194	5219	s/p fine grained ? Some
40	light grey	20	55					Some		Calcite veined Argillite (massive)	8	220	590	52	5	1.6	23	9	365	167	5220	Calcite ≈ 25%.
	45ft																					
	20																					

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ROTARY DRILLING RECORD

Hole No. R77-62 Property West Jason

Coordination 32 NW - 33.8 SW Elev. Collar 4298' Azimuth 0° Angle of Hole 90°

Total Depth 45' Date Aug. 13th, 1977 Logged by K. I. Lee

Section	Color	Constituents (Vol %) Powder	Arg	C.Sh.	S.S.	Tk	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft	m reddish grey	30	20		40	6	3	1+		Overburden (Sandstone > Arg > Turbidite)	17	202	1580								5236	
	Creamy grey	25	25		35	8	4	3	rare	"	24	176	1760								5237	
10	grey	15	25		50	6	3	1+	rare	"	21	260	1750								5238	
	"	20	35		40	3+		2	Some	" (Sandstone > Arg; Tk)	21	324	1540								5239	
20	dark grey	20	30		40	5	2	3	Some	" (Sandstone > Arg > Tk)	19	710	1720								5240	
	"	65	10	25				Some		" (Carb. Shale > Arg; Tk)	28	1400	2130								5241	
30	white grey	60	10	10				20		(some overburden ?) Qz veined alternated Carbonaceous Sh and Arg	35	1210	1570								5242	
	grey	30	40	15				15		"	28	600	1600	130	23	3.4	88	9	310	124	5243	
40	light grey	30	50	Some	15			3		Qz and Calcite veined alternated C. Sh and Lam Arg.	24	2200	1250	124	18	22.0	90	10	410	140	5244	Calcite ~2%
	45ft																					
	20																					

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ROTARY DRILLING RECORD

Hole No. R77-63 | Property West Jason

Coordination 34NW-43SW | Elev. Collar 4379' | Azimuth 0° | Angle of Hole 90°

Total Depth 40' | Date Aug. 13th~14th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Boulder	Arg.	phy	C.sh.	s.s.	Qz	Calc.	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft	m light creamy brown	40	13	25		20	2			Overburden (Arg. phy s.s mixture, possibly "Dirty Cangle")	40	440	1330								5245	
10	"	50	35	10		10	Some			" (")	44	550	1400								5246	
	dark brownish grey	30	45	10		14	1			" (")	25	590	1350								5247	
	light black	35	55	2	2	5			1	(Some overburden) Alternated Arg. & C. sh.	24	680	1090								5248	
20	black	65	20		15		Some	Some		"	20	620	1030	34	14	4.3	118	10	115	238	5249	
	dark brownish grey	65	20		8		2	5		Qz and Calcite veined alternated Arg. & C. sh.	23	460	950	46	13	4.5	104	12	170	298	5250	
30	black	60	30		Some		6	4	Some	"	14	200	810	30	8	1.9	56	13	150	373	5251	
	black	60	30		7		Some	2	1+	"												
40																						
	20																					

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ROTARY DRILLING RECORD

Hole No. R77-64 | Property West Jason

Coordination 32.6NW-48.75W | Elev. Collar 4401' | Azimuth 0° | Angle of Hole 90°

Total Depth 50' | Date Aug. 14th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results												Remark
	Color	Constituents (Vol %) Overb.	Arg.	phy.	C.sh.	s.s.	Qz.	Py.		Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft	M1 Light creamy grey	35	25	15	25					Overburden (Argillite ≥ C. sh.)	320	620	1540								5252	
10	light grey	30	25	20	20	5	Some			" (")	62	350	1310								5253	Sp. fine grains ? Some
	grey	40	35	Some	15	10				" and some bedrock? (")	48	900	1410								5254	
20	dark grey	30	60		10		rare			Mostly bedrock and some overburden Argillite alternated with C.Sh.	28	525	1070								5255	
	"	30	60		10			Some		Argillite alternated with C.Sh.	28	430	960	47	40	2.1	86	7	15	100	5256	
30	"	25	40		3	27	Some	5		Laminated Argillite alternated with C.Sh. Some py beds.	27	540	930	68	17	8.2	114	8	20	98	5257	
	40 black	20	50		2	28	rare	Some		laminated Argillite alternated with C.Sh.	26	520	1130	200	22	8.9	150	10	15	105	5258	
	"	20	65		3	12	Some	Some		"												
40	"	15	35		9	40	Some	1		"												
	"	20	40		12	25+	1	2		"												
50																						
	20																					

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-65 | Property West Jason

Coordination 30.2NW-93.7SW | Elev. Collar 4400' | Azimuth 0° | Angle of Hole 90°

Total Depth 60' | Date Aug. 14th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	phy	C.sh	S.S.	Qz	Py		Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m	grey	15	60			25		Some		Overburden (Argillite > Sandstone)	44	640	1400								5259	
10	"	15	70			15		Some		" (mainly lam. Arg.)	51	550	1450								5260	
	"	20	65			14	1	Some		" (")	32	330	1270								5261	Sp.? fine grains some
20	"	30	30			40	Some	Some		" (Arg ≤ Sandstone)	24	450	1310								5262	
	dark grey	15	40		15	30		Some		(Some overburden ??) lam. Argillite alternated with C. sh	18	200	1310								5263	Sp.? fine grains
30	black	20	50		5	22	Some	3		Calcareous lam. Argillite alternated with C. sh., pyritized in part	14	300	920	27	22	3.0	60	4	20	118	5264	
	"	20	60		4	15	Some	1		Calcareous "	13	1300	870	150	28	9.1	196	10	30	282	5265	
40	"	10	70		3	16		1		Calcareous "	12	800	920	106	23	9.6	118	9	40	225	5266	
	"	20	60		6	13	Some	1		Calcareous "												
50	"	30	30		20			20		Carbonaceous shale and Calcareous Silt (pyritized) laminated with Py beds.												one chip of chalcopyrite plus 1% Py in one chip
	dark grey	15	75	2	5		1	2		Calcareous Argillite alternated with C.sh (silted in part?)												
60	"	15	77	3	4		Some	1		Calcareous "												

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-66 | Property West Jason

Coordination 27.2 NW-42.45W | Elev. Collar 4450' | Azimuth 0° | Angle of Hole 90°

Total Depth 50' | Date Aug. 14, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Pyroclast	Arg	phy	C.sh	s.s.	O_2	Py	Calc	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m	light grey & grey	5	30	40		25	Some			overburden (lam. Arg. ≥ phy.)	11	132	1310								5221	
	dark brownish grey	20	20	40		19		1+		" (lam Arg & phy.)	14	152	1580				1				5222	
10	light black	15	75	Some	8	Some		2		" (Arg ≥ C. sh.)	11	230	1080								5223	
	black	25	60		4	10		1+		(some overburden) lam. Argillite alternated with C. Shale	15	384	1170								5224	
20	"	25	63		3	T		2+		lam. Argillite alternated with C. Shale pyritized in part	12	300	1090	178	33	3.3	136	11	18	80	5225	
	"	50	40		5	5		5+		& pyrite beds " pyritized in part	15	330	1150	58	20	3.3	140	11	10	85	5226	massive Py chips.
30 10	dark grey	35	40		25	Some		Some		Argillite alternated with C. Shale	16	560	1280	100	34	7.8	158	13	19	126	5227	
	"	60	20		18			1+	1+	"												
40	"	60	20		Some	8		2		"												
	black	75	20		Some			5		pyrite beds " pyritized in part												
50	soft																					
	20																					

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-67 Property West Jason

Coordination 27.3NW-40.8SW Elev. Collar 4455' Azimuth 0° Angle of Hole 90°

Total Depth 50' Date Aug. 14, 1977 Logged by K.I. Lu

Section	Color	Constituents (Vol %) Andstn	Arg.	phy.	C.Sh	S.S.	O_2	Calc.	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft	dark brownish grey	30	40	20	1	9			Some	Overburden (mostly highly bleached Arg. & phy.	10	316	1340								5228	
10	"	30	Some	20	30	15		4	1+	" (lam C.Sh & phy.)	13	308	890								5229	
	"	35	10	35	Some	12		7	1+	" (lam Arg & phy)	11	340	770								5230	
20	grayish brown	40	6	Some	20	30		4	Some	" (Sandstone, C.Sh & Arg	10	400	880								5231	
	dark brown	25	60		10	3		2	Some	(Some overburden) Calcite veined lam Arg. alternated with C.Sh	11	410	860								5232	
30	dark grey	15	65			15		5+	Some	calcite veined lam Arg. alternated with C.Sh calcareous in part	10	410	910	43	13	4.3	70	12	180	356	5233	
10	"	20	60		10	5		5+	Some	Py-Calcite veined lam. Arg. alternated with C.Sh calcareous input	10	440	990	35	10	5.2	68	12	140	460	5234	
40	"	20	65		13			2	Some	Py-Calcite veined Alternated Arg. & C.Sh. calcareous in part	17	600	1090	56	18	6.7	100	14	152	370	5235	
	"	10	70		20					Alternated Arg & C.Sh.												
50	"	20	65		12+			2	1	" calcareous in some.												
20																						

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ROTARY DRILLING RECORD

Hole No. R77-68 | Property West Jason

Coordination 25.8 NW - 39.9 SW | Elev. Collar 4462' | Azimuth 0° | Angle of Hole 90°

Total Depth 45' | Date Aug. 15th, 1977 | Logged by K. I. Lu.

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg.	C.sh	s.s.	X*	Qz	Calc	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft																						
0	brick red	15	20		40		25		rare	overburden (Sandstone > Argillite)	900	1580	1880								5267	
	greyish brown	15	60		20		5		rare	" (Argillite > Sandstone)	182	1900	1580								5268	
10	"	20	15		60		4	1	rare	" (Sandstone > Argillite)	400	2700	1400								5269	
	light brownish grey	15	5		10	60	7+	2+	1	" (X >> Argillite	290	1290	1900								5270	
20	reddish brown	20	5			70	3	1+	1-	" (mainly X)	780	3600	1990								5271	
	light brownish grey	20	2	2	5	65	2	4		" (X > Lam. Arg.)	126	910	1870								5272	
30	light grey	15		5		72	Some	8		" & some bedrock ? (mainly X)	58	510	1710	83	4	2.3	140	41	1400	196	5273	
	"	15		3		75		7		" & bed rock (mainly X)	24	320	1780	76	4	1.0	122	38	1400	180	5274	
40	"	15		3		75		7		Bed rock (Some overburden?) X (some C.sh., altered or fragment mixtured)	18	440	1860	69	3	1.0	124	36	980	189	5275	

* X = volcanics? (Calcareous) (light greenish ~ yellowish brown medium grained sandstone-like but often white lath-shaped (0.5 mm length) phenocrystal-like material found.)

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Page 1

Hole No. R77-69 | Property West Jason

Coordination 23.5 NW-38.0SW | Elev. Collar 4455' | Azimuth 0° | Angle of Hole 90°

Total Depth 75' | Date Aug. 15, 1977 | Logged by K. I. Lv

ft	Section	Color	Constituents (Vol %) Powder	Arg.	phy.	c.Sh.	S.S.	O₂	Py	Calc	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
		light grey	40	45	15						Overburden (Clay & Arg. some phy. bleached in part)	60	680	1410								5651	
10		grey & white	70	5	20		5		rare		" (mainly clay & phy. some Arg.)	56	740	1340								5652	
		black	65	10	3		20	2	Some		" (Sandstone and Arg.)	44	360	1330								5653	
		"	65	15		15	Sam		5		(very little overburden) Carbonaceous shale alternated with Arg.; laminated pyritized in part	41	140	950								5654	
20		?	60	20		10	2		8+		"	30	280	1100	85	25	2.8	110	10	15	53	5655	
		"	60	20		10	5		5		"												
30		"	20	60		17			3		Argillite alternated with Carbonaceous shale pyritized in part.	31	490	990	140	25	11.0	126	8	10	93	5656	
		dark grey	80			16			4		Carbonaceous shale only pyritized in part												
40		"	10	60		13	15	Some	2		laminated Argillite & some C. Shale alternated	18	600	870	40	17	9.8	100	6	10	139	5657	
		"	55	15		6	20	Some	4		laminated Argillite alternated with Carbonaceous shale pyritized in part some pyrite beds												massive Py chips Lot.
50		"	20	50		6	20	Some	4+		"	65	440	1190	76	20	5.6	152	11	21	69	5658	"
		"	30	40		18	10	Some	2		"												
60		black	60	27		4	8	rare	1+		"	36	790	990	57	17	8.0	130	10	50	83	5659	
		dark grey	30	45		8	15	Some	2+	rare	"												massive Py Some
70		"	25	45		12	15	rare	3+		"	26	580	860	50	15	5.3	118	10	83	259	5660	"
	75ft																						

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ROTARY DRILLING RECORD

Hole No. R77-70 Property West Jason

Coordination 30.7 NW-38.4SW Elev. Collar 4451' Azimuth 0° Angle of Hole 90°

Total Depth 38' Date Aug. 15th-16th, 1977 Logged by K. I. Lu

Section	Color	Constituents (Vol %) Pyrite	Arg	Phy.	C.Sh.	S.S.	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft																					
	grayish brown	20	30	14		35	1	Some	Overburden (Arg., S.S. > phy.)	67	1410	1610								5661	
10	reddish gray	10	20	10		25	35	Some	" (Large number of Qz fragments Arg. ≈ S.S. > phy.)	200	4400	1520								5662	
	grayish brown	60	5		3	30	2		" (C Carb. Shale > S.S., Arg.)	122	2900	1290								5663	
	black	25	65		7	2	1		(very little overburden) laminated Argillite alternated with C. Shale (locally pyritized)	78	1080	1430								5664	
20	light black	30	65		3	2	Some		"	26	580	1260	78	16	4.9	82	9	158	164	5665	
	black	15	65		2	18		Some	"	57	770	1020	79	12	5.3	86	10	182	257	5666	
30	"	15	60		3	21		14	"	42	860	810	50	12	3.9	80	12	320	572	5667	
	"	15	55		5	23		2	"												
40																					

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ROTARY DRILLING RECORD

Hole No. R77-71 Property West Jason

Coordination 23.9 NW-38.0 SW Elev. Collar 1378' Azimuth 0° Angle of Hole 90°

Total Depth 65' Date Aug. 16th, 1977 Logged by K. I. Lu

Section	Color	Constituents (Vol %) Powder	Arg	Phy	C.sh	s.s.	Qz	Calc.	Py.	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft	dark grayish brown	20	30	4		45-	1+			Overburden (s.s. > Argillite)	24	510	1490								5668	
	grayish brown	25	25-	4+		45-	1+		Some	" (")	37	650	1560								5669	
	gray & brown	20	30	3		37-	3		Some	" (")	29	510	1930								5670	Tb trc Rhy 2%
	brown	20	20-			45-	5+	7+	3+	" (")	22	300	2410								5671	
	gray	40	52+			Some	2-	5-	1	" and bedrock Qz-Calcite veined Argillite (Pyritized in part)	12	200	2350								5672	
	dark gray	20	75+				1-	1+	3-	"	20	380	1710	76	4	1.3	62	14	355	196	5673	
	black	30	68				?	Some	2-	"	21	385	1780	65	2	1.0	69	15	90	180	5674	
	dark gray	10	70		10	8		Some	2+	lam. Argillite alternated with C. Shale; Qz+Calcite veined; pyritized in part	24	300	1860	51	1	0.7	82	19	85	189	5675	
	black	20	60		15	4		Some	1+	"												
	dark gray	15	60		8	10	5	Some	2+	"												
	light gray	20	50		Some	4	15	10	1+	"												Qz-calcite veins remarkable
	"	20	45		Some	10	15	10	Some	"												
	"	20	55		7	5	8	5	Some	"	220	130	1100	45	16	0.4	26	10	605	53	5676	
65 ft																						

CORDILLERAN ENGINEERING LTD.

ROTARY DRILLING RECORD

Page 1

Hole No. R77-72 | Property West Jason

Coordination 25.8 NW-33.35W | Elev. Collar 4365' | Azimuth 0° | Angle of Hole 90°

Total Depth 65' | Date Aug. 16th~17th 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg.	Phy.	C.Sh.	S.S.	Qz	Calc.	Py.	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft 0 m	brownish grey	20	25	15		30	1			Overburden (Arg., S.S. >> Turbidite)	81	840	1940								5677	Tb 7% Rhy 2%
	brown	20	65			15				" (laminated Argillite)	23	710	1010								5678	
10	dark brown	80	3	15	2					" (mostly clay some Arg Rpl.)	13	605	1000								5679	
	dark brownish grey	40	50		10		Some		Some	" (clay & Argillite)	19	510	1110								5680	
20	black	50	40	Some	9				1	(Some overburden) Argillite and C. Shale alternated	18	320	910								5681	
	"	60	30		5			3	2	Argillite and C. shale alternated, pyritized in part, calcite veined	23	320	990	88	18	2.7	117	10	45	93	5682	
30	"	40	50		8		Some	1	1	"	22	470	875	86	16	5.3	114	10	92	139	5683	
	"	40	50		8				2	"	21	120	790	63	14	1.4	112	10	110	81	5684	
40	"	35	40		18	Some	2	Some	5+	laminated Argillite and C. shale alternated. pyritized in part locally py. beds. <0.5% calcite veined												
	"	30	45		17	5	Some		3	"												
50	dark grey	15	73		10		1+	Some	1	"												Calcareous in part
	"	20	40		9	20	8+		3	"												
60	"	20	40		16	20	1	Some	3	"	24	360	1030	83	15	2.4	124	10	88	89	5685	Argillite ~ calcareous
65	20																					

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ROTARY DRILLING RECORD

Hole No. R77-73 Property West Jason

Coordination 24+44 NW-34.75SW Elev. Collar 4382' Azimuth 0° Angle of Hole 90°

Total Depth 20 Date Aug. 17th 1977 Logged by K. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Powder	Arg.	Phy.	C.Sh.	S.S.	Qz.	Calc.	Py.	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft m	dark grey	30	20	8		40	1		1	Overburden (S.S. > Argillite)	32	460	2200								5686	
	greyish brown	15	20	15		40	1		rare	" (S.S., Arg. >> turbidite)	17	356	1620								5687	Tb S.S. Rhy & m.
10	dark greyish brown	30	20	10		40		Some		" (S.S. > Argillite)	13	304	1700								5688	Some calcareous Arg. fragments
	dark grey	35	10		55	Some	Some		Some	Carbonaceous shale alternated with Argillite	11	184	1990	100	10	0.9	60	7	190	60	5689	
20																						
40																						

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-74 | Property West Jason

Coordination 25.4NW-34.0SW | Elev. Collar 4366' | Azimuth 0° | Angle of Hole 90°

Total Depth 35' | Date Aug. 17th, 1977 | Logged by K.I. Lee

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Pyrox.	Arg.	Phyl.	C.sh.	S.S.	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
0	brownish grey	20	35	10		30	1		overburden (mainly lam. Arg.)	30	1010	1740								5690	
10	light brownish grey	10	25	10		55	some		" (S.S. > Arg.)	26	670	1480								5691	
	reddish grey	15	20	3		60*	2		" (S.S. > Arg.)	25	560	1800								5692	*5% Tb ? included.
20	black	20	50		20	10	some	some	lam. Argillite alternated with C. shale locally pyritized	18	420	1910	96	11	2.5	91	8	130	56	5693	
	"	15	60		25	some		some	"												
30	dark grey	10	70		9	10		1	"	14	191	1690	200	12	1.8	56	8	130	95	5694	
	"	15	70		13			2	"												
35ft																					

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-75 | Property West Jason

Coordination 15.05E - 18.05W | Elev. Collar 4158' | Azimuth 0° | Angle of Hole 90°

Total Depth 60' | Date Aug. 17th, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results											Remark
	Color	Constituents (Vol %) Pyroclast	Arg.	phy.	s.s.	Qz	Py			Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft	grey & brown	5	60	Some	35					mainly bedrock with some Overburden (Clay Argillite)	100	176	3060				-				5695	
10	dark brownish grey	10	55		35					laminated Argillite pyritized in part	83	540	2790								5696	
	dark grey	15	50		33		2+			"	73	620	1920								5697	Sp.? fine grains
20	grey	15	60		23		2+			"	74	500	2200								5698	"
	"	20	60		19		1			"	94	364	1940								5699	" are heavy calc Sp. rich
30	"	15	65		19	1	Some			"	70	680	1990	146	5	1.9	52	6	30	83	5700	
	"	15	70		15		Some			"												
40	"	10	70		20		Some			laminated Argillite some round chips (Probably slided or slumped)												
	"	15	60		14		1+			"	78	316	2410	310	4	7.1	38	7	18	165	5701	
	light grey	15	65		19		1+			"												
50	grey	15	70		14		1+			"												
	"	15	60		23		2+			"	68	380	1880	162	5	1.2	50	12	32	72	5702	
60																						

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-76 Property West Jason

Coordination 14.95E-20.05W Elev. Collar 4119' Azimuth 0° Angle of Hole 90°

Total Depth 60' Date Aug. 17th~18th, 1977 Logged by K. I. Lu

Section	Descriptive Geology									Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	S.S.	Tk	Rhy	Qz	Py		Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft	yellowish brown	20	22	8	30	18 (w/ Cly)	2			overburden (Turbidite > Argillite)	89	490	7600								5703	Bar. Sand some
	"	30	30	20	15	3	1+	some		" (Argillite ≥ Turbidite)	136	1110	10010								5704	Bar. Sand ~1%
	reddish grey	30	35	20	10	3	2	some		" (")	158	835	10670								5705	Bar Sand some
	brown	25	15	7	40	12	1+	some		" and Bedrock Turbidite > Argillite	111	925	5900								5706	"
	grey	15	35	10	30	6 (w)	2+	2-		Turbidite (Argillite as bed interculated, or as fragment?)	72	580	2490								5707	Bar. rare
	"	20	25	15	30	7 (Carbw)	1-	2+		"	88	268	2040	86	2	1.2	30	2	11	110	5708	" Sp.? fine grained some
	"	10	20	20	35	15 (Carbw)	some	some		"												" "
	dark grey	10	70	18+			1	1-		laminated Argillite												Bar ?
	grey	15	60	20	3	2 (w)	some	some		laminated Argillite with some Turbidite intercalated (or Totally Turbidite?)	35	324	1570	94	3	0.6	32	6	30	59	5709	Bar ?
	light brownish grey	15	40	23	10	7 (Carbw)	3+	2-		"												Bar. rare Sp. rare
	grey	20	25	10	15	26	1	3+		" (many round chips)												Bar ?
	"	15	40	13	10	20	some	2+		" (many round chips)	68	380	1780	142	3	1.0	40	4	21	85	5710	

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ROTARY DRILLING RECORD

Hole No. R77-77 | Property West Jason

Coordination 15.0SE-22.0SW | Elev. Collar 4176' | Azimuth 0° | Angle of Hole 90°

Total Depth 78' | Date Aug. 18, 1977 | Logged by K. L. Lu

Section	Color	Constituents (Vol %) Powder	Arg	S.S.	Tb.	Rhy.	Cs	Py	*Feld. Porph.	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft M	brownish grey	15	30	5	20	9	1		20	Overburden [Turbidite > Argillite > feld.porph. float]	54	560	4260								5711	Bar. Sand
	yellowish brown	15	30	20	20	10	Some	Some	5	" [Argillite > Turbidite some feld.porph]	156	320	8850								5712	" (abv. r.)
10	dark brownish grey	15	25	15	25	19	1+	Some		" [Arg. ≤ Turbidite]	178	425	9740								5713	" (abv. r.)
	grey	10	55	15	13	6	1	Some		" [Arg. > Turbidite]	304	840	18000	109	7	2.0	22	8	72	78	5714	" (abv. r.)
20	"	15	35	15	20	14 (Ca)	1+	Some		" [Arg. ≥ Turbidite]	270	1020	15300								5846	" (abv. r.)
	"	20	20	15	25	18 (Ca)	2+	Some		" [Arg ≥ Turbidite]	270	1020	15900								5847	" (abv. r.)
30 10	"	20	20	20	25	15	Some	Some		" ["]	260	760	13600								5848	" and some Sp.
	"	15	20	20	35	8	2	Some		" ["]	204	850	9230	100	7	2.1	33	9	90	82	5715	Bar. Sand and Bar-Sp.-Gl chips
40	"	20	25	15	30	9	1+	Some		" ["]	138	880	30700								5849	Bar. Some Sp. few
	"	15	35	25	20	6	1+	Some		" [Arg > Turbidite]	137	950	3420								5850	Bar. Some
50	"	15	40	25	16	3	1+	rare		" ["]	86	720	2750								5851	Bar. rare
	light brownish grey	15	40	12	28	1	7	Some		" , and bed rock ["]	57	1030	2410	109	8	0.8	42	12	205	80	5716	"
60	"	15	45	28	10		2+	Some		bedrock, and some overburden mostly [Arg. Argillite]												Bar. ?
	70 dark grey	25	55	2			3+	rare		laminated Argillite bedrock.												Bar ? rare
70	"	30	60	10			Some	rare		laminated Argillite												Bar ? rare
	"	20	65	15						"	67	690	1050	80	145	1.5	13	7	35	118	5717	
78ft									* feld. porph.	= feldspar porphyry. grey - light grey; float; (dyke nearby ?)												

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ROTARY DRILLING RECORD

Page 1

Hole No. R77-78 | Property West Jason

Coordination 24.5SE-1.0NE | Elev. Collar 4006' | Azimuth 0° | Angle of Hole 90°

Total Depth 481' | Date Aug. 18th~19th, 1977 | Logged by K. I. Lee

Section	Descriptive Geology: Color	Constituents (Vol %): Porphyr	Arg	Phy	S.S.	Tb	Rhy	Qz	Py	Geology	Assay Results: Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
0ft	brownish grey	20	7		1	50	20	2		Overburden (Mainly Turbidite)	46	240	2240								5718	
	"	20	40	1	8	25	5	14		" (Argillite & Turbidite)	46	160	2830								5719	
10	grey	20	65	2	12			Some	1+	(Some overburden) laminated Argillite	80	116	3620								5720	
	"	15	65		16	2		Some	2	laminated Argillite few fine Turbidite beds interbedded	44	92	3330								5721	
20	"	10	75		9+	3		1	2	"	54	98	3450	188	10	0.2	78	19	40	64	5722	
	"	15	70		13	Some		Some	2	laminated Argillite (pyritized in part)												
30	"	15	65		17			Some	3	"	70	292	3500	168	6	0.4	80	21	420	68	5723	
40	"	5	80		15			Some		"												
	"	20	50	Some	29				1+	" (Slumped & Slided?)	60	84	3460	200	6	0.6	62	16	50	80	5724	fracturoidal by some Stickenside.
481ft	"	10	65	3	21				1+	" (")												many Stickenside
20																						

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ROTARY DRILLING RECORD

Hole No. R77-79 Property West Jason

Coordination 24.6 SE - 2.7 SW Elev. Collar 4028' Azimuth 0° Angle of Hole 90°

Total Depth 14' Date Aug. 19th, 1977 Logged by K. L. Lu

Section (ft)	Color	Constituents (Vol %) Powder	Arg	S.S.	Tb	Rhy	Qz	Pyl	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
0	reddish brown	15	20	10	35	15 (QtzR)	5	rare	Overburden (Mainly Turbidite)	40	190	2440								5725	
10	brown & grey	20	25	10	28	15 (QtzV)	2	Some	" (Turbidite > Argillite)	54	140	3230								5826	
14ft	"	10	25	15	30	18 (QtzV)	2	Some	" (")	40	181	2940								5827	Turbidite-like green mica. Sp. ? fine seams some
									Hard rock drilling could not advanced.												

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ROTARY DRILLING RECORD

Hole No. R77-80 (beside R77-79 Pilot)

Coordination 24.6 SE - 2.7 SW (E) (S)

Elev. Collar 4028'

Azimuth 0°

Property West Jason

Angle of Hole 90°

Total Depth 20'

Date Aug. 19th 1977

Logged by K. I. Lay

Section	Descriptive Geology									Geology	Assay Results											Remark
	Color	Constituents (Vol %) Powder	Arg	S.S.	Tb	Rhy	Qz	Py			Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
ft / m	brown	20	10	10	35	22	3			Overburden (Mostly Turbidite)	57	3020	2600								5828	
3	brown & grey	20	25	10	30	14	1	Some		" (Turbidite > Argillite)	50	890	3800								5829	Sp.? fine grains some
10 / 6	"	20	25	5	40	8	2	Some		" (")	50	540	3370								5830	"
9	light grey & brown	20	15	5	45	10	4	1		" (")	52	460	2330								5831	"
20 / 20 ft																						

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ROTARY DRILLING RECORD

Hole No. R77-81 | Property West Jason

Coordination 23.8 SE-3.7 SW | Elev. Collar 4073' | Azimuth 0° | Angle of Hole 90°

Total Depth 58' | Date Aug. 19, 1977 | Logged by K. I. Lu

Section	Descriptive Geology										Assay Results												Remark
	Color	Constituents (Vol %) Powder	Arg	C.sh.	S.S.	Tb.	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	
0'	Creamy yellow	20	25		5-	35-	10 (Lm)	5+	Some	overburden (Turbidite > Argillite)	41	160	1990								5832	
10	yellow	30	10		10	30	13- (Lm)	7	Some	" (mainly Turbidite)	54	224	2600								5833	
	Creamy yellow	25	15		20	23	7	10	Some	" (")	61	336	2130								5834	Bar.? Sp.? few.
20	grey	10	30		15	25	15	3	2	" (Turbidite ≥ Argillite)	48	324	2630	100	7	1.9	50	15	140	78	5835	
	"	20	40		20	15	4	1-	Some	" (")	19	148	1770								5852	
	"	20	45		10	10	5	9	1+	" (Argillite ≥ Turbidite)	23	172	1780								5853	
30	"	15	35		20	15	9	5	1+	" (Argillite ≥ Turbidite)	21	176	2180								5854	Some Calcite
	"	10	30		20	25	10+	3	2.	" (Turbidite > Arg.)	55	284	2540	80	11	1.3	60	19	260	117	5836	
40	"	25	30		20	12	4-	7	2+	" (Turbidite ≤ Arg.)	139	760	2370								5855	
	"	20	30		15	20	8-	4	3+	" (turbidite ≥ Arg.)	89	500	3510								5856	Bar.?
50	dark grey	70	15	4	8			3		(very little overburden) Carbonaceous Shale alternated with lam. Argillite	42	52	9210	15	8	0.2	3	1	11	97	5857	
58'	"	80	1	18-	1			Some		"	40	56	9790	14	11	0.2	1	2	10	85	5837	
60																						

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ROTARY DRILLING RECORD

Hole No. R77-82 Property West Jason

Coordination 1.2NW-16.3SW Elev. Collar 4202' Azimuth 0° Angle of Hole 90°

Total Depth 104' Date Aug. 20th, 1977 Logged by K. I. Lee

Section	Color	Constituents (Vol %) Pyrdsy	Arg	Phy	s.s.	Tb.	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
ft M	brownish grey	80	10			3	5	2		Overburden (mostly peats, roots etc.)	46	228	2950								5838	Very poor recovery
	very	very 10	poor recovery sample collected.							"												
10	grey	10	50		20	10	8	2+	Some	" (Arg > Turbidite)	40	192	4400								5839	
	"	15	20		18	35	7	3+	2-	" (Turbidite > Arg.)	35	142	5310								5840	
20	"	15	20		15	40	5-	3+	2-	" (")	36	80	5660	49	9	0.3	23	6	55	43	5841	
	"	15	25		15-	35	7	2-	1+	" (")	39	114	4600								5858	
30	"	10	25		10	35	16+	3	1-	" Coarser. (")	41	134	4800								5859	
	"	25	20		10	30	5	8-	1+	" (")	41	104	3740								5860	
40	"	25	15		5-	40	3+	10-	2-	" (mainly turbidite)	33	80	3670	69	8	0.4	25	6	95	57	5842	
	"	20	30		20	24	Some	5-	1-	" (Argillite > Turbidite)	35	96	3520								5861	
50	"	20	30		10	20	15	3-	2-	" (")	34	144	3480								5862	
	"	20	40	Some	15	12	7	3-	3+	" and some bedrock (Argillite > Turbidite)	47	400	2700								5863	
60	"	20	40		10	20	6	2	2	(some overburden) Turbidite intercalated with lam Arg (or Arg. fragments)	44	295	2800	62	13	0.4	93	13	110	66	5843	
	"	15	55		10	12	3	3-	2-	"												
70																						

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ROTARY DRILLING RECORD

Hole No. R77-82 (continued) Property West Jason

Coordination 1.2NW-16.35W Elev. Collar _____ Azimuth 0° Angle of Hole 90°

Total Depth 104' Date Aug. 20th, 1977 Logged by K. I. Lu

Section (ft)	Color	Constituents (Vol %) Powder	Arg	phy	S.S.	Tb.	Rhy	Qz	Py	Geology	Pb	Zn	Ba	Cu	Mo	Cd	Ni	Co	Mn	Sr	Sample #	Remark
80	grey	10	60		20	7	1+	1+	1+	lam. Argillite with some turbidite intercalated												massive Py round chips.
	"	10	60		20	6	2	Some	2+	"												
	"	10	65		22	.		2	1+	lam. Argillite	39	1900	1550	84	10	28	85	14	140	87	5844	
90	"	20	60		12	5		2	1+	" (Some fine Turbidite intercalated)												massive Py some.
	"	20	55	3	20	?		Some	2	lam. Argillite (Slided & slump in some part)												Some round massive Py chips.
100	"	20	50	Some	5	10	2	2+	1+	lam. Argillite and turbidite intercalated (or mixed as "Dirty Conglo.")	44	1000	2010	76	16	12	108	16	215	119	5845	
	Hole caved, mixed rocks chips Sample not collected.																					
	?																					
104'																						

215,000 E | 210,000 E | 205,000 E | 200,000 E

22,990,000 N | 22,985,000 N | 22,980,000 N

JASON 47 | JASON 45 | JASON 2 | JASON 4 | JASON 3 | JASON 1 | JASON 48 | JASON 46 | ACE 1 Fr. | ACE 2 Fr. | ACE 3 Fr. | ACE 4 Fr. | ACE 5 Fr.

TOM (HUDSON BAY MINING & SMELTING) CO. LTD.

CANOL ROAD

RIVER

JASON 177 Fr. | JASON 178 Fr. | JASON 179 Fr. | JASON 180 Fr. | JASON 181 Fr. | JASON 189 Fr. | JASON 182 Fr. | JASON 190 Fr.

JASON 149 | JASON 147 | JASON 145 | JASON 143 | JASON 141 | JASON 8 | JASON 10 | JASON 12 | JASON 14 | JASON 16 | JASON 18 | JASON 17 | JASON 15 | JASON 13 | JASON 19 | JASON 151 | JASON 152

JASON 150 | JASON 148 | JASON 146 | JASON 144 | JASON 142 | JASON 7 | JASON 9 | JASON 11

ACE 6 Fr. | ACE 7 Fr. | ACE 8 Fr. | ACE 9 Fr.

0+00 BASE LINE

10+00 NE | 20+00 NE | 30+00 NE | 40+00 NE

10+00 SW | 20+00 SW | 30+00 SW | 40+00 SW | 50+00 SW | 60+00 SW

10+00 NW | 20+00 NW | 25+00 NW | 30+00 NW | 35+00 NW | 40+00 NW | 45+00 NW | 50+00 NW

0+00 | 5+00 NW

5+00 SE | 10+00 SE | 15+00 SE | 20+00 SE | 25+00 SE | 30+00 SE | 35+00 SE | 40+00 SE

JASON 125 | JASON 127 | JASON 129 | JASON 53 | JASON 51 | JASON 49 | JASON 22 | JASON 24 | JASON 26 | JASON 28 | JASON 30 | JASON 32

JASON 128 | JASON 126 | JASON 54 | JASON 52 | JASON 50 | JASON 21 | JASON 23 | JASON 25 | JASON 27 | JASON 31

JASON 130 | JASON 159 | JASON 157 | JASON 75 | JASON 73 | JASON 59 | JASON 57 | JASON 55 | JASON 38 | JASON 40 | JASON 42

JASON 74 | JASON 60 | JASON 58 | JASON 56 | JASON 35 | JASON 37 | JASON 39 | JASON 41

ACE 10 Fr. | ACE 12 Fr. | ACE 13 Fr. | ACE 14 Fr. | ACE 15 Fr. | ACE 16 Fr. | ACE 17 Fr. | ACE 18 Fr. | ACE 19 Fr. | ACE 22 Fr. | ACE 23 Fr. | ACE 24 Fr. | ACE 25 Fr. | ACE 26 Fr. | ACE 31 Fr. | ACE 36 Fr.

JASON 78 | JASON 80 | JASON 82 | JASON 84 | JASON 86 | JASON 88

MACMILLAN PASS

MIKE 1 | MIKE 2

BASE CAMP

CANOL ROAD

EXPLANATION

- JASON 59 — CLAIM NAME
- ○ 75-6 — DIAMOND DRILL HOLE, YEAR AND HOLE NUMBER
- □ R-77-5 — ROTARY DRILL HOLE, (BECKER), YEAR AND HOLE NUMBER
- ✿ — SIMMONS ROTARY DRILL HOLE
- CREEK
- CAT ROAD
- NODWELL TRAIL

OGILVIE JOINT VENTURE

DRILL HOLE LOCATION MAP

JASON PROPERTY

MACMILLAN PASS AREA (N.T.S. 105-O-1)

MAYO AND WATSON LAKE MINING DISTRICTS, YUKON TERRITORY

500 0 500 1000 1500 2000

SCALE IN FEET

BY

CORDILLERAN ENGINEERING LIMITED
1418 - 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

DECEMBER 1977

PLATE

INVOICE

BECKER DRILLS LTD.

1217 FRANCIS STREET
VANCOUVER, B.C. V6A 1Z4

HEAD OFFICE:
P.O. BOX 3487 STN. "B"
CALGARY, ALBERTA
T2M 4M2

becker

TELEPHONE:
(604) 254-6217

RECEIVED
JUL 12 1977

TO: Cordilleran Engineering Ltd
1418 - 355 Burrard Street
Vancouvdr, B.C.

INVOICE No.: 53085

DATE: July 6, 1977

OUR JOB No.: DO 197

YOUR P.O. # | LOCATION: MacMillan Pass | BILLING PERIOD: June 1977

		$	¢
MOBILIZATION CALGARY TO ROSS RIVER	Lump Sum	8,000	.00

CORDILLERAN ENGINEERING LIMITED
Client QJV
Project W. JASON
213
Extensions 005 2
Voucher No. July 12/77
Approved
Date Paid July 12/77.

TOTAL $8,000.00

ORIGINAL INVOICE

This Invoice is Due Upon Receipt
1½% per month charged after 10th of the month following receipt of Invoice.
Chargeable after: _____

INVOICE

BECKER DRILLS LTD.

1217 FRANCIS STREET
VANCOUVER, B.C. V6A 1Z4

HEAD OFFICE:
P.O. BOX 3487 STN. "B"
CALGARY, ALBERTA
T2M 4M2

becker

TELEPHONE:
(604) 254-6217

JUL 29 1977

TO: Cordilleran Engineering Limited
1418 - 355 Burrard Street
Vancouver, B.C.

INVOICE No.: 53110

DATE: July 27, 1977

OUR JOB No.: DO 197

YOUR P.O. # | LOCATION: MacMillan Pass | BILLING PERIOD: July 5 - July 16, 1977

		$	¢
DAILY CHARGE	12 days @ $160.00/day	1920	00 ✓
HOURLY CHARGE	98 hours @ $76.00/hour	7448	00 ✓
FOOTAGE	1150 @ $1.20/foot	1380	00 ✓
BITS 4¾ "	9 @ $105.64/ea.	950	76 ✓
DOWN HOLE HAMMER RENTAL	July 5 - August 4, 1977	1200	00 ✓
		12898	76
Less MacMillan Town		10	24
Less Rockiner Store		66	46
Paid		12822	06
TOTAL		$12,898.76	

CORDILLERAN ENGINEERING LIMITED
Client DO
Project McMillan
213 12898.76
602 (76.70)
213 12898.76
12822.06

ORIGINAL INVOICE

0069 Aug 15/77

This Invoice is Due Upon Receipt
1½% per month charged after 10th of the month following receipt of Invoice. Chargeable after: _____

becker

CLIENT Cordilleran Engineering

JOB No. DO 197

PERIOD July 5 - July 16, 1977

LOCATION MacMillan Pass

RIG No. 4512

JOB SUMMARY

MONTH		DAILY CHG.	HOURLY CHG.	FOOTAGE	4¼" BITS						TOTAL
July 5	1.	9	19								
July 6	1.	3	26								
July 7	1.	6	86								
July 8	1.	2	20		1						
July 9	1.	7	104		1						
July 10	1.	3½	33								
July 11	1.	12	201		1						
July 12	1.	12	167		1						
July 13	1.	12	145		1						
July 14	1.	12	166		2						
July 15	1.	12	102		1						
July 16	1.	7½	81		1						
@ $160.00/day	12										1920.00
@$76.00/hour		98									7448.00
@ $1.20/foot			1150								1380.00
@ $105.64/each				9							950.76
Down Hole Hammer Rental July 5 - August 4, 1977											1200.00
											$12,898.76

Paid on a/c.

213 104.

0114 Becker Drills Ltd Sept 21/77 20000 00

213

COLLIDAN
ENGINEERS LIMITED

[illegible] & JV

[illegible] LL

213 [illegible]

[illegible]

Approved [illegible]

Date Paid Sept 21/77

CORDILLERAN ENGINEERING LIMITED

MINERAL EXPLORATION
MANAGEMENT AND
ENGINEERING CONSULTANTS

1418 - 355 BURRARD STREET
VANCOUVER, B.C.
V6C 2G8
TELEPHONE (604) 681 - 8381

September 9, 1977

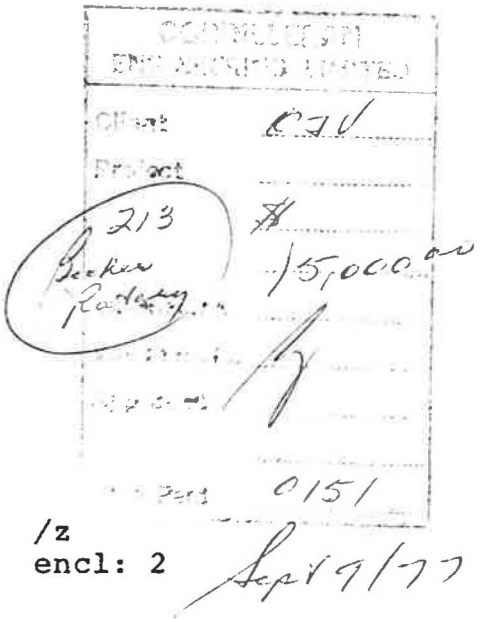
Becker Drills Ltd.
1217 Francis Street
Vancouver, B.C.
V6A 1Z4

Dear Sirs:

Re: JOB NO. DO-197
Cordilleran Engineering Limited
Location: MacMillan Pass, Y.T.

Enclosed please find our cheque in the amount of $15,000.00 as further payment on our account.

For your information we have also attached an invoice from Ross River Store in the amount of $26.08 which is a payroll deduction for your Mr. Al Alans. We will deduct this $26.08 from our final payment.



Yours very truly

CORDILLERAN ENGINEERING LIMITED

A. Zaholuk

/z
encl: 2

	8.19
	6.00.00
	1.08.00
	1.21.00 –
	6.56.05
	2.13 X
	2.46.00 –
	6.02 X
	6.34.07 *
	*
	1.25.70 –
	8.12.44
	8.20.19
	6.00.00
	1.08.00
	1.21.00 –
	6.34.07 *

CORDILLERAN ENGINEERING LIMITED	
Client	OJV
Project	WJ.
213 BR	8586.95
Extensions	
602 Voucher No.	(246.08)
Approved	8340.87
Date Paid	

0212
Oct 31/17

To pay in full:
Inv 3120, 3135 less attachments as shown on attached copy
Inv 3158, 59.64 less *3500.00 pd on ck.

0212 Becker Hill Ltd Oct 31/17 8340 87

1217 Francis St
Van. B.C. V6H 1Z4

INVOICE

BECKER DRILLS LTD.

1217 FRANCIS STREET
VANCOUVER, B.C. V6A 1Z4

HEAD OFFICE:
P.O. Box 3487 Stn. "B"
Calgary, Alberta
T2M 4M2

becker

TELEPHONE:
(604) 254-6217

RECEIVED
AUG 8 1977

Ellen Please approve for payment and return

TO: Cordilleran Engineering Limited
1418 - 355 Burrard Street
Vancouver, B.C.

INVOICE No.: 53120

DATE: August 5, 1977

OUR JOB No.: 80 - 197

YOUR P.O. # | LOCATION: MacMillan Pass | BILLING PERIOD: July 17 - July 20, 1977

		$ ¢
DAILY CHARGE	4 days @ $160.00/day	640.00 ✓
HOURLY CHARGE	45 hours @ $76.00/hour	3420.00 ✓
FOOTAGE	78 feet @ $1.20/foot	93.60 ✓
ANGLE FOOTAGE	122 feet @ $4.00/foot	488.00 ✓
REED 4½"	1 bit @ $105.64/each	105.64 ✓

CORDILLERAN ENGINEERING LIMITED
Host O.J.V.
Project W-JASON
213 BR
Extensions
Voucher No.
Approved D&A.
Date Paid

Sept 2
Plan a/c
20000.00

(15,252.76)

TOTAL $4,747.24

TRIPLICATE INVOICE

This Invoice is Due Upon Receipt
1½% per month charged after 10th of the month following receipt of Invoice.
Chargeable after: _____

becker

CLIENT Cordilleran Engineering

JOB No. DO - 197

PERIOD July 17 - July 20, 1977

LOCATION MacMillan Pass

RIG No. 4512

JOB SUMMARY

MONTH	DAILY CHG.	HOURLY CHG	FOOTAGE	ANGLE FOOTAGE	4¼ BITS					TOTAL
July 17	1	12	28	15						
July 18	1	11		107						
July 19	1	10								
July 20	1	12	50		1					
@ $160.00/day	4									640.00
@ $76.00/hour		45								3420.00
@ $1.20/foot			78							93.60
@ $4.00/foot				122						488.00
@ $105.64/each					1					105.64
										$4,747.24

INVOICE

BECKER DRILLS LTD.

1217 FRANCIS STREET
VANCOUVER, B.C. V6A 1Z4

HEAD OFFICE:
P.O. Box 3487 Stn. "B"
Calgary, Alberta
T2M 4M2

becker

TELEPHONE:
(604) 254-6217

RECEIVED
SEP 1 1977

TO: Cordilleran Engineering Limited
1418 - 355 Burrard Street
Vancouver, B.C.

INVOICE No.: 53135

DATE: August 22, 1977

OUR JOB No.: DO-197
Rig No 4512

YOUR P.O. #

LOCATION: MacMillan Pass

BILLING PERIOD: August 1 - August 6, 1977

			$	¢
July 21 -	STANDBY	12 Hours @ $76.00/hour ✓	912.	00 ✓
	DAILY DRILL RENTALL	1 day @ $160.00/day ✓	160.	00 ✓
	DAILY HAMMER RENTAL	1 day @ $40.00/day ✓	40.	00 ✓
		Sub Total	$1,112.	00
Aug 1 - Aug 6				
	HOURLY	✓60 hours @ $76.00/hour	4560.	00
	FOOTAGE	540 feet @ $1.20/foot	~~648.~~ 540.	~~00~~ 48
	BITS	✓8 bits @ $105.64/each	845.	12
	DAILY DRILL RENTAL	✓6 days @ $160.00/day	960.	00
	DAILY HAMMER RENTAL	✓6 days @ $40.00/day	240.	00
		Sub Total	~~$7,253. 12~~	
			7255.	52
	Less Rent Rec'd		26	08
	Less air		220	00
			8121	44
		TOTAL	~~$8,365.~~	~~52~~

CORDILLERAN ENGINEERING LIMITED
Client O&V
Project W.J.
212 212 $367.52 (246.08)
Extensions
Voucher No. 602
Approved
8121.44

ORIGINAL INVOICE

Date Paid

This Invoice is Due Upon Receipt
1½% per month charged after 10th of the month following receipt of Invoice. Chargeable after:

becker

Inv. # 53135

CLIENT Cordilleran Engineering Limited

JOB No. DO-197

PERIOD July 21, 1977

LOCATION MacMillan Pass

RIG No. 4512

JOB SUMMARY

MONTH										TOTAL	
July 21	12	1	1								
@ $76.00/hour	12									912.	00
@ $160.00/day		1								160.	00
@ $40.00/day			1							40.	00
										$1,112.	00

becker

Inv. 53135

CLIENT Cordilleran Engineering Limited

JOB No. DO-197

PERIOD August 1 - August 6, 1977

LOCATION MacMillan Pass

RIG No. 4512

JOB SUMMARY

MONTH	HOURLY	FOOTAGE	BITS	DAILY DRILL RENTAL	DAILY HAMMER RENTAL					TOTAL	
August 1	4½	65	1	1	1						
August 2	11	125	2	1	1						
August 3	10½	123	2	1	1						
August 4	11	77	1	1	1						
August 5	12	90	1	1	1						
August 6	11	60	1	1	1						
@ $76.00/hour	60									4560.	00
@ $1.20/foot		540								648.	00
@ $105.64/each			8							845.	12
@ $160.00/day				6						960.	00
@ $40.00 /day					6					240.	00
										$7,253.	12

CORDILLERAN ENGINEERING LIMITED

MINERAL EXPLORATION
MANAGEMENT AND
ENGINEERING CONSULTANTS

1418 - 355 BURRARD STREET
VANCOUVER, B.C.
V6C 2G8
TELEPHONE (604) 681 - 8381

September 9, 1977

Becker Drills Ltd.
1217 Francis Street
Vancouver, B.C.
V6A 1Z4

Dear Sirs:

Re: JOB NO. DO-197
Cordilleran Engineering Limited
Location: MacMillan Pass, Y.T.

Enclosed please find our cheque in the amount of $15,000.00 as further payment on our account.

For your information we have also attached an invoice from Ross River Store in the amount of $26.08 which is a payroll deduction for your Mr. Al Alans. We will deduct this $26.08 from our final payment.

Yours very truly

CORDILLERAN ENGINEERING LIMITED

A. Zaholuk

/z
encl: 2

ROSS RIVER
YUKON
CANADA

terr-air LTD
(TERRITORIAL AIRWAYS)

PHONE: (403) 969-2240 or 969-2524
TELEX: TERR-AIR ROSS

FIXED WING AIRCRAFT

PROJECT: OJV - W. Jason - charge Becker. CHARTER TICKET Nº 720

AIRCRAFT CF-PID DATE JULY 23/77

NAME CORDILLERAN ENG.

ADDRESS

From ROSS	MILES	HOURS	CARGO	PASSENGER/REMARKS
To WHITEHORSE	125			3 BECKER
ROSS	125			1 CAT SWINGER.
LESS SPLIT	50			
TO MARY LOU				
	60			
SPECIAL INSTRUCTIONS				
	200		Approved PER MILE	220 00
			WAITING TIME PER HOUR	
			EXTRA LANDINGS PER LANDING	
			OTHER	
			TOTAL CHARGES	220 00

CORDILLERAN ENGINEERING LIMITED
Client OJV
Project W. Jason
Becker
Extensions @ PER HOUR
Voucher No.
Date Paid

All Chg's Sept

Pilot's Signature — Base — Charterer's Authorization

STAR PRINTING WHITEHORSE

INVOICE

BECKER DRILLS LTD.

1217 FRANCIS STREET
VANCOUVER, B.C. V6A 1Z4

HEAD OFFICE:
P.O. Box 3487 Stn. "B"
Calgary, Alberta
T2M 4M2

becker

TELEPHONE:
(604) 254-6217

RECEIVED
AUG 29 1977

TO: Cordilleran Engineering Limited
1418 - 355 Burrard Street
Vancouver, B.C.

INVOICE No.: 53141

DATE: August 25, 1977

OUR JOB No.: DO-197

Rig # 4512

YOUR P.O. #

LOCATION MacMillan Pass

BILLING PERIOD: August 7 - August 20, 1977

		$	¢
Aug. 7-13, 1977			
HOURLY	82½ hours @ $76.00/hour	6270	00
FOOTAGE	1157 feet @ $1.20/foot	1388	40
BITS	11 Bits @ $105.64/each	1162	04
DAILY DRILL RENTAL	7 days @ $160.00/day	1120	00
DAILY HAMMER RENTAL	7 days @ $40.00/day	280	00
BIT SUB	1 Bit Sub @ $153.75/each	153	75
PIPE	10' X 3½" CSP Pipe @ $246.40	246	40
	Sub Total	$10,620	59
Aug.14 - 20, 1977			
HOURLY	78½ hours @ $76.00/hour	5966	00
FOOTAGE	971 feet @ $1.20/foot	1165	20
DAILY DRILL RENTAL	7 days @ $160.00/day	1120	00
DAILY HAMMER RENTAL	7 days @ $40.00/day	280	00
BITS	10 Bits @ $105.64/each	1056	40
	Sub Total	$9,587	60
	GRAND TOTAL	$20,208	19

CORDILLERAN
ENGINEERING LIMITED
Client OJV
Project W.
213 BL
Extensions
Voucher No.
Approved
Date Paid

ORIGINAL INVOICE

This Invoice is Due Upon Receipt
1½% per month charged after 10th of the month following receipt of Invoice
Chargeable after: _____

A Subsidiary of Upper Canada Resources Ltd.

4396

becker

CLIENT Cordilleran Engineering Limited

JOB No. DO-197

PERIOD August 7 - August 13, 1977

LOCATION MacMillan Pass

RIG No. 4512

JOB SUMMARY

MONTH	HOURLY	FOOTAGE	BITS	DAILY DRILL RENTAL	DAILY HAMMER RENTAL	BIT SUB	10' X 3½" CSG PIPE			TOTAL
August 7	12	120	1	1	1					
August 8	11½	109	2	1	1					
August 9	12	175	2	1	1					
August 10	11	213	2	1	1					
August 11	12	177	1	1	1					
August 12	12	170	2	1	1	1	1			
August 13	12	193	1	1	1					
@ $76.00/hour	82½									6270.00
@ $1.20/foot		1157								1388.40
@ $105.64/each			11							1162.04
@ $160.00/day				7						1120.00
@ $40.00/day					7					280.00
@ $153.75/each						1				153.75
@ $246.40/each							1			246.40
										$10,620.59

Inv. #53141 4396

becker

CLIENT Cordilleran Engineering Limited | JOB No. DO-197

PERIOD August 14 - August 20, 1977 | LOCATION MacMillan Pass | RIG No. 4512

JOB SUMMARY

MONTH	HOURLY	FOOTAGE	DAILY DRILL RENTAL	DAILY HAMMER RENTAL	BITS					TOTAL
August 14	12	217	1	1						
August 15	12	140	1	1						
August 16	10½	143	1	1	1					
August 17	10	123	1	1	1					
August 18	11	148	1	1	2					
August 19	11½	96	1	1	4					
August 20	11½	104	1	1	2					
@ $76.00/hour	78½									5966.00
@ $1.20/foot		971								1165.20
@ $160.00/day			7							1120.00
@ $40.00/day				7						280.00
@ $105.64					10					1056.40
										$9,587.60

INVOICE

BECKER DRILLS LTD.
1217 FRANCIS STREET
VANCOUVER, B.C. V6A 1Z4

HEAD OFFICE:
P.O. BOX 3487 STN. "B"
CALGARY, ALBERTA
T2M 4M2

becker

TELEPHONE:
(604) 254-6217
TELEX:
045-1317

RECEIVED
SEP 9 1977

INVOICE № 53158

TO: Cordilleran Engineering Limited
1418 - 355 Burrard Street
Vancouver, B.C.

DATE: September 7, 1977

OUR JOB No.: DO-197

YOUR P.O. # | LOCATION: MacMillan Pass | BILLING PERIOD:

	$	¢
DEMOBILIZATION ROSS RIVER TO CALGARY	8,000.	00

CORDILLERAN ENGINEERING LIMITED
Client OJV
Project W Loon
213 BR.
Extensions
Voucher No.
Approved
Date Paid

TOTAL $8,000. 00

ORIGINAL INVOICE

This Invoice is Due Upon Receipt
1½% per month charged after 10th of the month following receipt of Invoice. Chargeable after:

INVOICE

BECKER DRILLS LTD.

1217 FRANCIS STREET
VANCOUVER, B.C. V6A 1Z4

HEAD OFFICE:
P.O. Box 3487 Stn. "B"
Calgary, Alberta
T2M 4M2

becker

TELEPHONE:
(604) 254-6217
TELEX:
048-1317

RECEIVED
SEP 9 1977

INVOICE No. 53159

TO: Cordilleran Engineering Limited
1418 - 355 Burrard Street
Vancouver, B.C.

DATE: September 7, 1977

OUR JOB No.: DO-197

YOUR P.O. #

LOCATION: MacMillan Pass

BILLING PERIOD:

	$	¢
Lowbed driving Ross River to Cordilleran Camp and return D.F.H. 18 hours @ $60.00/hour	1080.00	

CORDILLERAN ENGINEERING LIMITED

Client AV
Project W. Jason
213 BR
Extensions
Voucher No.
Approved
TOTAL
Date Paid

$1,080.00

ORIGINAL INVOICE

This Invoice is Due Upon Receipt
1½% per month charged after 10th of the month following receipt of Invoice.
Chargeable after:

A Subsidiary of Upper Canada Resources Ltd.

BDL-V777

INVOICE

BECKER DRILLS LTD.

1217 FRANCIS STREET
VANCOUVER, B.C. V6A 1Z4

HEAD OFFICE:
P.O. Box 3487 Stn. "B"
Calgary, Alberta
T2M 4M2

becker

TELEPHONE:
(604) 254-6217
TELEX:
045-1317

RECEIVED
SEP 12 1977

INVOICE No. 53164

TO: Cordilleran Engineering Limited
1418 - 355 Burrard Street
Vancouver, B.C.

DATE: September 8, 1977

OUR JOB No.: DO-197
Rig # 4512

YOUR P.O. # | LOCATION: MacMillan Pass | BILLING PERIOD: August 21 - 25, 1977

		$	¢
HOURLY	4 hours @ $76.00/hour	304	00
DAILY DRILL RENTAL	5 days @ $160.00/day	800	00
DAILY HAMMER RENTAL	2 days @ $40.00/day	80	00

Sept 9
on a/c 1500 00

CORDILLERAN ENGINEERING LIMITED
Client asv
Project W Cassiar
213 ZK
Approved
Date Paid

(13816 00)

TOTAL $1,184.00

ORIGINAL INVOICE

This Invoice is Due Upon Receipt
1½% per month charged after 10th of the month following receipt of Invoice.
Chargeable after:

A Subsidiary of Upper Canada Resources Ltd.

BDL-V777

beck jr

PERIOD	LOCATION	RIG No.
Aug : 21 - 25, 1977	MacMillan Pass	4512

JOB SUMMARY

MONTH	HOURLY	DAILY DRILL RENTAL	DAILY HAMMER RENTAL	TOTAL
August 21	4 ✓	1 ✓	1 ✓	
August 22		1 ✓	1 ✓	
August 23		1 ✓		
August 24		1 ✓		
August 25		1 ✓		
@ $76.00/hour	4 ✓			304.00 ✓
@ $160.00/day		5 ✓		800.00 ✓
@ $40.00/day			2 ✓	80.00 ✓
				$1,184.00 ✓