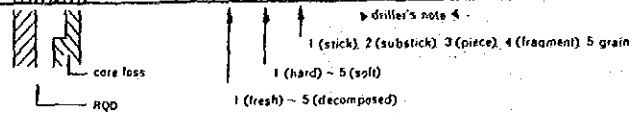


GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. LS-1 (SHEET / OF 8)

LOCATION <u>Left Bank</u>	DEPTH OF HOLE <u>15.0</u> m	COMMENCED _____
ELEVATION <u>498.62</u> m	DEPTH OF OVERBURDEN _____ m	COMPLETED _____
COORDINATE <u>X = 470,204.37</u> <u>Y = 4520,372.47</u>	LENGTH OF ROCK DRILLING _____ m	DRILLED BY _____
ANGLE FROM HORIZONTAL <u>90°</u>	TOTAL LENGTH OF CORE _____ m	LOGGED BY _____
BEARING OF ANGLE HOLE _____	CORE RECOVERY _____ %	

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER		
0.0			0-100%									0	
1.0	Sl	Δ							slope wash			1	
2.0		○							River gravel gained			2	
3.0	Al	○							3.0			3	
4.0		○							Most cracks brown			4	
5.0	Db	⊥			dark gray	3	1	3	Hard in general			5	
6.0		+							5.2			6	
7.0	Gd	+			gray	3	1	4	Most cracks brown Hair cracks somewhat rich			7	
8.0		+			light gray	3	1	3	7.0			8	
9.0		+							9.5			9	
10.0	Db	⊥			black	3	2	3	10.0 slickenside rich			10	
11.0	Gd	+			light gray	1	1	2	10.4 with clay			11	
12.0	Db	⊥			black	3	3	4	10.9			12	
13.0		+			light gray	3	3	3	11.3 Same as 10-10.4m			13	
14.0		⊥							12.7			14	
15.0		⊥							Fragmental core			15	
16.0		⊥							13.7 Most cracks brown			16	
17.0		⊥							Some cracks brown			17	
18.0	Db	⊥			black	3	2	4	Some portions cracky (c=4): 14.4~14.6m 14.85~15.0m			18	
19.0		⊥							16.0			19	
20.0		⊥							Most cracks brown Slickenside with clay at 17.55~17.6m			20	
21.0		⊥							17.7			21	
22.0		⊥							A few cracks brown			22	
23.0		⊥							Substick core dominant			23	
24.0		⊥							Rather massive			24	



GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. LS-1 (SHEET 2 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED _____

ELEVATION 498.62 m DEPTH OF OVERBURDEN _____ m COMPLETED _____

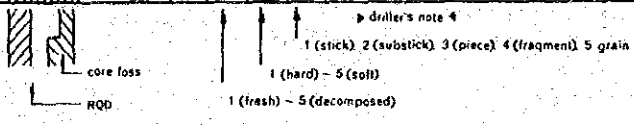
COORDINATE $X = 470,394.37$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____

$Y = 4320,312.87$ TOTAL LENGTH OF CORE _____ m LOGGED BY _____

ANGLE FROM HORIZONTAL 90° CORE RECOVERY _____ %

BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				WATER TABLE	WATER PRESSURE TEST	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING				
0m			0-100%							0	40	0m
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
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39												
40												



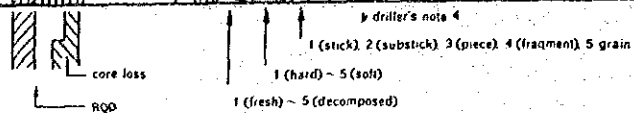
GEOLOGIC LOG OF DRILL HOLE

PROJECT

HOLE No. LS-1 (SHEET 3 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED -
 ELEVATION 498.62 m DEPTH OF OVERBURDEN - m COMPLETED -
 COORDINATE X = 470.204.37 LENGTH OF ROCK DRILLING - m DRILLED BY -
Y = 4520.512.47 TOTAL LENGTH OF CORE - m LOGGED BY -
 ANGLE FROM HORIZONTAL 90° CORE RECOVERY - %
 BEARING OF ANGLE HOLE -

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BITTING CASING	OBSERVATION OF CORE					DESCRIPTION	WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	WATER PRESSURE TEST		LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION		
4.0m			0-100%												
1	Db	+			black	7	Z	4		Cracky					
2		+													
3		+								Brown cracks rare					
4	Gd	+			light gray	1	1	7		Some cracky portions but fresh and hard in general					
5		+													
6		+													
7	Db	+			bk	3	Z	3-4		Most cracks blown					
8		+													
9	Gd	+			light gray	1	1	3		Brown cracks rare					
10		+													
11		+													
12		+													
13		+													
14		+													
15		+													
16		+													
17		+													
18		+													
19		+													
20		+													
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29		+													
30		+													
31		+													
32		+													
33		+													
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35		+													
36		+													
37		+													
38		+													
39		+													
40		+													



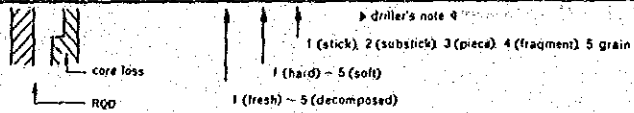
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. LS-1 (SHEET 4 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED _____
 ELEVATION 498.62 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE 8 = 470,204.37 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
9 = 4520,512.47 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 90° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER		
0m			0 = 100									0	498.62
1		+					4	Some cracks coated by yellowish green film	P=10	Lu=4.5		1	
2									P=10			2	
3		+					3	Brown cracks rare, fresh	P=10	Lu=0.7		3	
4		Gf			gray	1	1		P=10			4	
5		+			light	2	2		P=10			5	
6									P=10			6	
7		+							P=10			7	
8						3	3	67.5 Sheared but rather consolidated	P=10	Lu=0.5		8	
9						4	4	68.9	P=10			9	
10		+							P=10	Lu=0		10	
11		+				1	1		P=10	Lu=0.1		11	
12					gray	1	1	72.0	P=10			12	
13		Db			dark	2	2		P=10	Lu=0.5		13	
14		+							P=10			14	
15						1	1	74.0	P=10	Lu=0.4		15	
16		+				2	3	74.9 calcite veinlets rich, brittle	P=10			16	
17						1	2	76.5 Cracky	P=10	Lu=0.4		17	
18		Gf			white	1	2	Cracky	P=10			18	
19						1	1	A few cracks brown	P=10	Lu=0.4		19	
20						2	1	78.0	P=10			20	
21		+			dk	1	2	Cracky	P=10	Lu=0.7		21	
22						2	2	79.0	P=10			22	
23		Db			gy	3	3	79.6 somewhat clayey (fault?)	P=10			23	
24		+				1-2	2-1		P=10			24	
25						3	3		P=10			25	



GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. LS-1 (SHEET 5 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED _____

ELEVATION 498.62 m DEPTH OF OVERBURDEN _____ m COMPLETED _____

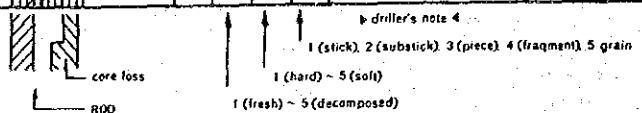
COORDINATE X = 470,207.37 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____

Y = 4,520,572.47 TOTAL LENGTH OF CORE _____ m LOGGED BY _____

ANGLE FROM HORIZONTAL 20° CORE RECOVERY _____ %

BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER		
0.0			0-100%								0.0		
0.5	Db	+			1-2	2-1	3	80.35	Hair crack rich	P=10	LU=0.6	0.5	
1.0	Gf	+			1	1	2	81.7	Cracks coated by Yel. green film	P=10	LU=0.6	1.0	
2.0					2	2	4	82.35	Weakly sheared	P=10	LU=0.7	2.0	
3.0									Cracky in general	P=10	LU=0.4	3.0	
4.0							4			P=10	LU=0.4	4.0	
5.0					1	1	3			P=10	LU=0.4	5.0	
6.0					1	1	(3)			P=10	LU=0.4	6.0	
7.0					2	2				P=10	LU=0.4	7.0	
8.0								88.0		P=10	LU=0.6	8.0	
9.0					1	1	3		Somewhat sheared with calcite veinlets	P=10	LU=0.6	9.0	
9.5	Db	+			2	2	4	89.7	at 88.9 ~ 89.15m	P=10	LU=0.4	9.5	
10.0					2	2	4	90.8	Cracky	P=10	LU=0.4	10.0	
11.0									Hair crack poor	P=10	LU=0.4	11.0	
12.0					1	1	3		Rather massive	P=10	LU=0.3	12.0	
13.0								92.5		P=10	LU=0.4	13.0	
14.0					1-2	3-4		93.0		P=10	LU=0.2	14.0	
15.0									Massive	P=10	LU=0.3	15.0	
16.0										P=10	LU=0.2	16.0	
17.0								97.0		P=10	LU=0.2	17.0	
18.0					2	4		97.3		P=10	LU=0.3	18.0	
19.0										P=10	LU=0.3	19.0	
20.0										P=10	LU=0.3	20.0	



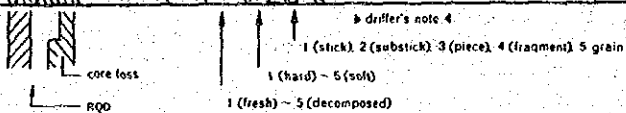
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. LS-1 (SHEET 6 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED _____
 ELEVATION 498.67 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $X = 470,304.37$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 $Y = 6520,372.67$ ANGLE FROM HORIZONTAL 90° TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 BEARING OF ANGLE HOLE _____ CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAK/GE OF DRILLING WATER		
100m			0-100%								0	100m	43
1							3				P=10		
2							2				P=10		
3							1	102.5			P=10		
4							1	Fresh and hard in general			P=10		
5							2	104.5			P=10		
6							2				P=10		
7							1				P=10		
8							3				P=10		
9											P=10		
10							1	110.0			P=10		
11							1	Calcite veinlets somewhat rich			P=10		
12							2				P=10		
13								112.8			P=10		
14							1	114.0			P=10		
15							1	Calcite veinlets Somewhat rich			P=10		
16							2	115.0			P=10		
17											P=10		
18							1	Rather massive			P=10		
19							2				P=10		
20								118.7			P=10		



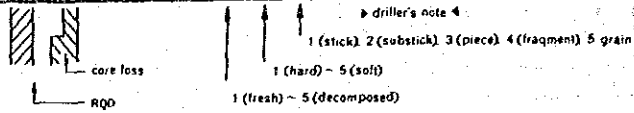
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. LS-1 (SHEET 7 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED _____
 ELEVATION 498.62 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $X = 4220.374$ $Y = 4320.373$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 ANGLE FROM HORIZONTAL 90° TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 BEARING OF ANGLE HOLE _____ CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF CASING	OBSERVATION OF CORE					WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION					
0			0 → 100 %										0	45
1							1	2	120.5					
2							2	4	120.8					
3	Db				dark gray	1	1	1		Long stick core dominant				
4										Hair crack poor				
5														
6														
7	Gd					1	1	1	126.4					
8	Db					1	1	1	127.8					
9	Gd					1	1	1	128.1					
10						1	1	1	128.6					
11														
12														
13														
14	Db				dark gray	1	1	1		Long stick core dominant				
15										Hair crack poor				
16														
17														
18														
19														
20														



GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. LS-1 (SHEET 8 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED _____

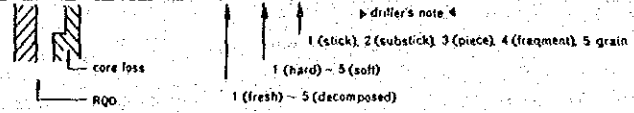
ELEVATION 498.62 m DEPTH OF OVERBURDEN _____ m COMPLETED _____

COORDINATE 8 = 4520, 292.22 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____

ANGLE FROM HORIZONTAL 90° TOTAL LENGTH OF CORE _____ m LOGGED BY _____

BEARING OF ANGLE HOLE _____ CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BITTING CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER			
0			0 + 100 %									0	498.62	
1							7 Z-1 140.7					1		
2							2 4 140.7					2		
3								Long stick core dominant				3		
4												4		
5												5		
6												6		
7												7		
8												8		
9												9		
10												10		
11												11		
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40												40		

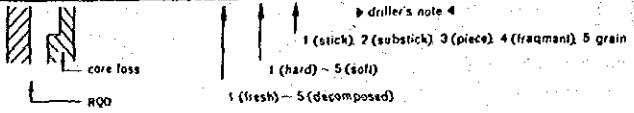


GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. LSI-Z (SHEET 1 OF 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 498.62 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $\phi = \frac{49.204.37}{4320.572.27}$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 ANGLE FROM HORIZONTAL 45° TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 BEARING OF ANGLE HOLE N45°W CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTA- TION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE		DEPTH	ELEVATION		
					COLOR	WEATHER- ING	HARD- NESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER				
0m			0 → 100								0	40	0m	43	
1	S	Δ							Slope wash and/or terrace deposit, containing 1.5 bound gravel					1	
2		⊕				7	2	4	A few cracks brown					2	
3		⊕				1	7	7	Cracky in general					3	
4		⊕				2	3	3	Some piece core gained					4	
5		⊕						4.5						5	
6		⊕					2	4	Some cracks brown		P = 4			6	
7		⊕				2	1	1						7	
8		⊕				2	3	3						8	
9	Gd	⊕						7.35			P = 7			9	
10		⊕						10.0	Some hair cracks					10	
11		⊕			gray			10.75	Some hair cracks					11	
12		⊕			light				Some cracks brown					12	
13		⊕				2	1	1						13	
14		⊕						3						14	
15		⊕						14.55						15	
16		⊕												16	
17		⊕							A few cracks brown					17	
18		⊕				1	2	4						18	
19		⊕				1	7	7						19	
20		⊕				2	3	3						20	



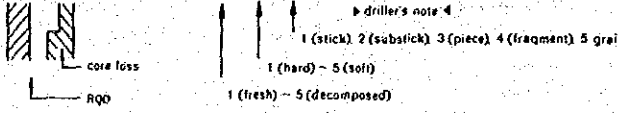
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. LSJ-Z (SHEET 2 OF 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 498.62 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 490,204.37 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4528,512.87 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 45° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE N45°W

DEPTH Z 0m	ROCK NAME	LOG	CORE RECOVERY 0-100%	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHER- ING	HARD- NESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER		
0													
1		#							Cracky in general	P=3	LU=96.8	1	
2		#							A few cracks brown			2	
3	Gd	#			light gray	1	2	4				3	
4		#			light gray	2	3	3				4	
5		#								P=2		5	
6		#							26.3			6	
7	Db	#			dk gy	2	1	2		P=10		7	
8		#			light gray				Cracks yellowish brown or coated by yellowish green film			8	
9	Gd	#			whites	2	2	3		P=10		9	
10		#						4	30.0 Some hair cracks	P=10	LU=19.9	10	
11	Db	#			dk gy	2	2	3		P=10	LU=3.0	11	
12		#							Diabase dyke at 31.55~31.75m	P=10	LU=3.0	12	
13		#								P=10	LU=4.1	13	
14		#							33.3	P=10	LU=9.3	14	
15	Gd	#			light gray					P=10		15	
16		#								P=10		16	
17		#								P=10		17	
18		#								P=10		18	
19		#								P=10		19	
20		#								P=10		20	



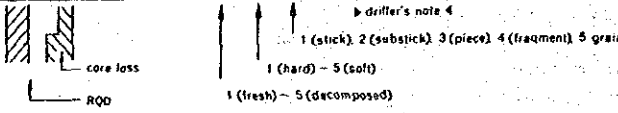
GEOLOGIC LOG OF DRILL HOLE

PROJECT

HOLE No. LSI-Z (SHEET 3 OF 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 498.62 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470,204.37 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4570,312.27 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 45° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE N45°W

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	LU		
0			0 → 100%											
1	Gd	+			dk	1-2	1-2	2-3	40.4	Some cracks brown Cracky	P = 10	LU = 0		
2	Db	-			gy	Z	Z	3	44.75		P = 10	LU = 0		
3		+			light gray	1	1	2		Some cracks coated by yellowish green film	P = 10	LU = 0		
4	Gd	+			light gray	1	2	3	44.35		P = 10	LU = 0		
5		+			light gray		1	1		Massive	P = 10	LU = 0		
6	Db	+			dk	Z	Z	4	46.0	Some cracks brown Cracky	P = 3	LU = 107.2		
7		+			light gray	1		1	46.7		P = 3	LU = 107.2		
8	Gd	+			light gray	1	1	1		Fresh, massive	P = 10	LU = 0		
9		+			light gray	Z		Z			P = 10	LU = 0		
50		+							50.2					
1	Db	-			dk	1	1	1		Fresh and massive				
2	Gd	+			gy	1-2	1	2	51.55					
3		+				1	1	1		Fresh and massive in general	P = 10	LU = 0		
4		+				Z	4	3	54.0					
5		+			light gray	1	1	2	55.0					
6	Db	-			dark gray	1-2	3	3	55.5					
7		+			dark	Z		Z			P = 10	LU = 0		
8		+				1	1	1						
9		+				Z	4	1	58.2	Somewhat cracky (hair cracks) with Calcite-quartz veinlets				
60		+				3	3	3						



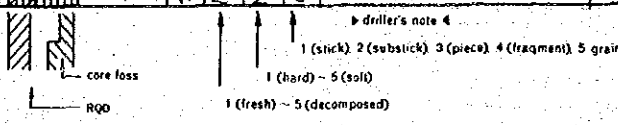
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. LSI-Z (SHEET 4 of 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 498.67 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470,204.37 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4520,512.47 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 45° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE N45°W

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					WATER TABLE	WATER PRESSURE TEST	DEPTH	ELEVATION	
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION					LEAKAGE OF DRILLING WATER
6.0m			0-100%									6.0m		
1	Db	+			1-2	2	4-3	60.3	Fresh and massive in general Some portions Cracky with Cal-Qz veinlets	P = 10 Lu = 0		1		
2	Gd	+					2	2					2	
3		+					1	1					3	
4		+					3	3					4	
5		+					2	4				64.65	5	
6		+					1	1				64.75	6	
7		+					3	3				66.0	7	
8	Db	+					2	4				66.15	8	
9		+					1	1				69.6	9	
10		+					2	4				69.8	10	
11		+					1	1		11				
12		+					3	3	71.8	12				
13		+					2	4	72.0	13				
14		+					1	1		14				
15		+					3	3	73.1	15				
16		+					2	4	73.2	16				
17		+					1	2-3	73.83	17				
18		+					2	4	74.0	18				
19		+					1	1	75.0	19				
20		+					2	3	75.7	20				
21		+					4	4		21				
22	Gd	+					1	1		22				
23		+					2	2		23				
24		+					4	4	77.6	24				
25	Db	+					dk	7	2	78.7	25			
26		+					py	1	1		26			
27		+					2	2		27				
28	Gd	+					1-2	1-2	79.15	28				
29		+					3	3		29				
30	Db	+					dk	7	2		30			
31		+					py	1	1		31			
32		+					2	2		32				



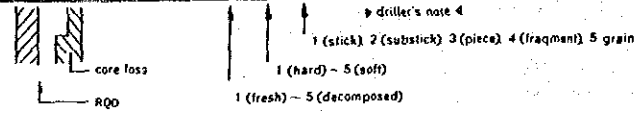
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. LSI-Z (SHEET 5 of 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 498.62 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $\phi = 470, 204.57$
 $\lambda = 4520, 512.47$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 ANGLE FROM HORIZONTAL 45° TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 BEARING OF ANGLE HOLE N45°W CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	OBSERVATION OF CORE					WATER TABLE			DEPTH	ELEVATION	
				CEMENTATION KIND OF BIT CASING	COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER			DEPTH
0			0-100%									0	498.62	
1								4	1	Sheared zone				1
2								3	1	Altered dark greenish gray				2
3								4	1	Secondary mineral.				3
4								3	1	Brittle in general				4
5								4	1					
6	Db							3	1	85.0				6
7								4	1	85.3				7
8								3	1	86.1				8
9								4	1	87.2				9
10								1-2	1-2	87.7				10
11								2	3	Somewhat altered as same as above				11
12								4	3		88.6			
13								1	2	Brown cracks rate				13
14								1	1		90.6			
15								2	3	91.7				15
16								4	3		91.7			
17								3	1	94.0				17
18								3	3		94.0			
19	Gd							3	4	94.86				19
20								4	4	Altered				20
21								4	4		94.86			
22										Cores under 94.86m are lost				22
23											94.86			
24										Cores under 94.86m are lost				24
25											94.86			
26										Cores under 94.86m are lost				26
27											94.86			
28										Cores under 94.86m are lost				28
29											94.86			
30										Cores under 94.86m are lost				30
31											94.86			
32										Cores under 94.86m are lost				32
33											94.86			
34										Cores under 94.86m are lost				34
35											94.86			
36										Cores under 94.86m are lost				36
37											94.86			
38										Cores under 94.86m are lost				38
39											94.86			
40										Cores under 94.86m are lost				40
41											94.86			
42										Cores under 94.86m are lost				42
43											94.86			
44										Cores under 94.86m are lost				44
45											94.86			
46										Cores under 94.86m are lost				46
47											94.86			
48										Cores under 94.86m are lost				48
49											94.86			
50										Cores under 94.86m are lost				50
51											94.86			

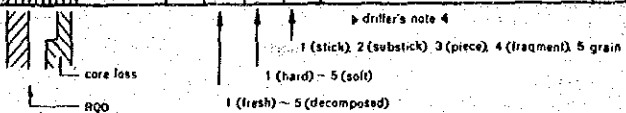


GEOLOGIC LOG OF DRILL HOLE

PROJECT: _____ HOLE No. LS-3 (SHEET 1 of 8)

LOCATION <u>Left Bank</u>	DEPTH OF HOLE <u>150</u> m	COMMENCED _____
ELEVATION <u>547.28</u> m	DEPTH OF OVERBURDEN _____ m	COMPLETED _____
COORDINATE <u>X = 418,181.31</u> <u>Y = 4320,537.25</u>	LENGTH OF ROCK DRILLING _____ m	DRILLED BY _____
ANGLE FROM HORIZONTAL <u>90°</u>	TOTAL LENGTH OF CORE _____ m	LOGGED BY _____
BEARING OF ANGLE HOLE _____	CORE RECOVERY _____ %	

DEPTH 0m	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION					
0			0 → 100%									0	40	543
1		Δ							Slope wash				1	
2	Sl	Δ											2	
3								2.93					3	
4	Gf	+			wt	2	1	3	3.6	Some cracks brown			4	
5	Gd	+			lt	3	2	3	4.42	Most cracks brown cracky			5	
6	Db	+			dk	3	2	3	5.18				6	
7	Gd	+			lt	3	2	3	6.65				7	
8	Db	+			dk	3	2	3	7.0				8	
9					gy	3	1	2-3	7.45				9	
10										Most cracks brown Somewhat massive in general			10	
11													11	
12													12	
13	Gd	+											13	
14													14	
15													15	
16													16	
17													17	
18													18	
19													19	
20													20	



GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. LS-3 (SHEET 2 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED _____
 ELEVATION 547.28 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470,181.37 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 422,127.25 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 90° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	LUGEDIN		
0			0-100%									0		
1	Db	+			dk	3	1	3	Most cracks brown					
		+			gy	3	1	1	Fragmental core					
		+						4	dominant					
2		+						3	Do					
		+						1						
		+						4	21.7					
3		+						3	23.3					
4		+			Z	7	2	2	Some cracks brown					
		+						1	Some cracks coated					
		+						3	by yellowish green					
5		+							film					
		+						3	25.45					
6		+						3	26.3					
		+			gray	7	2	2	Brown cracks rare					
7	Gd	+						7	Fresh and intact					
8		+			light	7	7	7						
		+						7	28.6					
9		+						7	29.55					
		+						2-3	30.0					
30		+						3	30.7	cracky, most				
		+						4	30.7	cracks brown				
1		+						7	32.65	Fresh	P=10			
		+						7						
2		+						3						
		+						7	32.65	Some cracks	P=10			
3		+						4	32.5	brown. Cracky				
		+						7	34.0					
4		+						4	34.2					
		+						7		A few cracks	P=10			
5		+						7		brown				
6	Db	+						7		Fresh and intact				
		+						7						
7		+						3						
		+						7						
8		+						7	38.2					
		+						7						
9	Gf	+						2	38.85					
		+						3	39.2					
40	Db	+						2		Some cracks brown				
		+						3						

driller's note 4
 1 (stick) 2 (substick) 3 (piece) 4 (fragment) 5 grain
 1 (hard) - 5 (soft)
 1 (fresh) - 5 (decomposed)

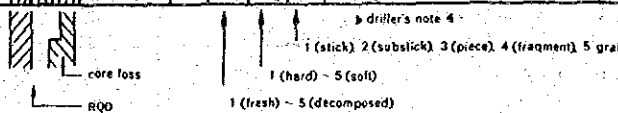
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. LS-3 (SHEET 3 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED _____
 ELEVATION 547.28 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $X = \frac{470.18131}{4320.52725}$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 ANGLE FROM HORIZONTAL 90° TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 BEARING OF ANGLE HOLE _____ CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER		
4.0m			0 = 100									4.0m	
1		+							Brown cracks mre Some cracks coated by yel. green film	P = 10	Lu = 0.4		
2		+								P = 10	Lu = 0		
3		+			light gray	7	Z	3	Hair cracks some- what rich, so easy to break along them	P = 10	Lu = 0		
4	Gd	+				7	1	2		P = 10	Lu = 0		
5		+				Z	1	2		P = 10	Lu = 18.9		
6		+								P = 10	Lu = 0.6		
7		+								P = 10	Lu = 0.6		
8		+				1-2	2-1	3-2	47.0 Brecciated shear zone (Consolidated) brittle	P = 10	Lu = 0.6		
9		+				3	3	4	48.0	P = 10	Lu = 5.4		
10		+				1-2	2	3	48.7	P = 10	Lu = 0.6		
11		+				3	3	3	49.5	P = 10	Lu = 0.6		
12		+							Consolidated shear zone, brittle	P = 10	Lu = 0.6		
13		+							47.0 Hair cracks some- what rich	P = 10	Lu = 0.6		
14		+				7	Z	2		P = 10	Lu = 0		
15	Db	+			dark gray	1	1	1		P = 10	Lu = 0.8		
16		+				Z	1	3		P = 10	Lu = 0.8		
17		+				4	4	4	52.0 Consolidated fault breccia. slicken- side rich	P = 10	Lu = 0		
18		+								P = 10	Lu = 0		
19		+				7	2	3	Hair cracks some- what rich	P = 10	Lu = 0.8		
20		+				1	1		Cracky	P = 10	Lu = 0.8		
21		+				Z				P = 10	Lu = 0.8		
22		+				3	4	3	calcite veinlets rich	P = 10	Lu = 0.8		
23		+				3	3	3		P = 10	Lu = 0.8		
24		+				2-1	3	3	54.9 Fault slickenside	P = 10	Lu = 0.8		
25		+				4	4	7		P = 10	Lu = 1.8		
26		+								P = 10	Lu = 1.8		
27	Gf	+				1	Z	2	Some cracks coated by yel. green film	P = 10	Lu = 1.8		
28		+				1	1	1		P = 10	Lu = 1.8		
29		+				Z	1	3		P = 10	Lu = 1.8		
30		+								P = 10	Lu = 1.8		
31	Ob	+				4	4	2-3	58.4 Consolidated shear zone. Slickenside rich	P = 10	Lu = 37.0		
32		+				1	Z	2		P = 10	Lu = 37.0		
33	Gf	+				1	1	1		P = 10	Lu = 37.0		
34		+				Z	1	3		P = 10	Lu = 37.0		



GEOLOGIC LOG OF DRILL HOLE

PROJECT

HOLE No. LS-3 (SHEET 4 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED _____
 ELEVATION 547.28 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $X = 470,181.31$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 $Y = 4520,567.65$ TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 90° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	LUGEON		
0			0 → 100									0	46.6	
1	Gf	+			white	7	2	3	Most cracks coated by yel. green film	P=10			1	
2						1	1	1	Hair cracks rich				2	
3		+				2	1	2	62.65	P=10			3	
4	Db	+			dark gray	7	1	1					4	
5								1	64.95	P=10			5	
6		+				7	2	2	Hair cracks Somewhat rich				6	
7						1	1	1		P=10			7	
8		+				2	1	3					8	
9								4	68.0	P=10			9	
10		+				2	4	4	68.63				10	
11								2	68.95	P=10			11	
12		+						3-4	69.3				12	
13								2	69.6	P=10			13	
14	Gf	+			white	1	2		Brown cracks rare.				14	
15						1	1	3		P=10			15	
16		+				2	1	1	Cracky in general				16	
17						2	1	1		P=10			17	
18		+						4					18	
19									75.5	P=10			19	
20		+				2	1	3					20	
21						2	3		77.0	P=10			21	
22		+				2	1	1	Long stick core dominant				22	
23						1	1	1	78.0	P=10			23	
24	Db	+			dark grey	7	1	1	Hair cracks Somewhat rich				24	
25						7	2	1		P=10			25	
26		+						3					26	
27													27	
28		+											28	
29													29	
30		+											30	

driller's note 4.
 1 (stick) 2 (substick) 3 (piece) 4 (fragment) 5 grain
 1 (hard) - 5 (soft)
 1 (fresh) - 5 (decomposed)

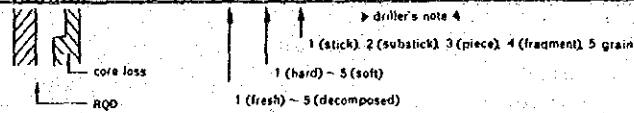
GEOLOGIC LOG OF DRILL HOLE

PROJECT

HOLE No. LS-3 (SHEET 5 OF 8)

LOCATION left bank DEPTH OF HOLE 250 m COMMENCED -
 ELEVATION 547.28 m DEPTH OF OVERBURDEN - m COMPLETED -
 COORDINATE $\phi = 4520.18131$ LENGTH OF ROCK DRILLING - m DRILLED BY -
 $\lambda = 4520.86765$ TOTAL LENGTH OF CORE - m LOGGED BY -
 ANGLE FROM HORIZONTAL 90 ° CORE RECOVERY - %
 BEARING OF ANGLE HOLE - °

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	LUGEON		
0			0-100									0	547.28	
1	Db	+			dk	1	Z	Z						
2		+			gy	1	Z	3	81.45					
3									Some cracks coated by yel. green film					
4		+							No brown cracks					
5														
6	Gf	+				1	Z	Z	Hair cracks					
7						1	Z	1	Some what rich in general					
8		+			white									
9														
10		+												
11														
12		+							92.4					
13	Db	+			dark gray	1	Z	4	93.4	Cracky				
14		+			dark gray	1	Z	3	94.4					
15	Gd	#			white	1	Z	Z						
16	Db	+			bk	1-2	Z	4	96.0	Cracky slickenside				
17	Gd	#			wt	1-2	Z	Z	96.9					
18		+				3	4-5	3	97.4	Cracky with slickenside				
19	Db	+			dark gray	1	Z	Z		Rather massive				
20		+				1	Z	3	99.4					
21		+				4	Z	3	99.5					
22		+				2-3	Z	3						



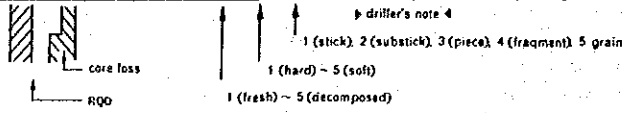
GEOLOGIC LOG OF DRILL HOLE

PROJECT

HOLE No. LS-3 (SHEET 6 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED -
 ELEVATION 547.28 m DEPTH OF OVERBURDEN - m COMPLETED -
 COORDINATE 8 = 470.181.31 LENGTH OF ROCK DRILLING - m DRILLED BY -
7 = 4520.567.65 TOTAL LENGTH OF CORE - m LOGGED BY -
 ANGLE FROM HORIZONTAL 90° CORE RECOVERY - %
 BEARING OF ANGLE HOLE -

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION					
10.0m			0 → 100										10.0m	
1							1	1	1	Long stick core very fresh			1	
2	Db				dark gray	1	1	2	2	102.3			2	
3					dark gray	1	2	4	4	103.2			3	
4					dark gray	1	2	2	2	104.0			4	
5	Gf				light gray	1	2	3	3	104.4			5	
6					light gray	1	1	1	1	106.5			6	
7	Db				dark gray	1	1	2	2	Do			7	
8					dark gray	1	1	3	3	108.25			8	
9	Gf				light gray	1	1	3	3	Do			9	
10					light gray	1	1	2	2	109.5			10	
11	Db				dark gray	2	2	4	4	Cracky in general Fragmental core dominant			11	
12					dark gray	1				Cracks filled with calcite veinlets			12	
13					dark gray	1				112.3			13	
14	Gf				light gray	2	2	3	3	Hair cracks somewhat rich. Easy to break along them			14	
15					light gray	1	1	2	2	113.8			15	
16					light gray	1	1	2	2	114.7			16	
17					light gray	1	1	2	2	114.85			17	
18					light gray	1	1	2	2	115.05			18	
19	Db				dark gray	1	1	2	2	sheared and brittle			19	
20					dark gray	1	1	2	2	Hair crack poor massive			20	

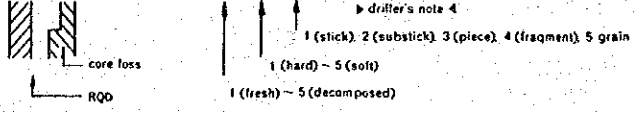


GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. LS-3 (SHEET 7 OF 8)

LOCATION <u>Left Bank</u>	DEPTH OF HOLE <u>150</u> m	COMMENCED _____
ELEVATION <u>547.28</u> m	DEPTH OF OVERBURDEN _____ m	COMPLETED _____
COORDINATE <u>X = 470,197.31</u> <u>Y = 4520,547.45</u>	LENGTH OF ROCK DRILLING _____ m	DRILLED BY _____
ANGLE FROM HORIZONTAL <u>90</u> °	TOTAL LENGTH OF CORE _____ m	LOGGED BY _____
BEARING OF ANGLE HOLE _____	CORE RECOVERY _____ %	

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION					
12.0m			0 → 100%										40/20m	43
1									Do.				1	
2									Some cracks coated by calcite veinlets				2	
3													3	
4								Z	Intact in general				4	
5								1	Hair crack poor				5	
6													6	
7													7	
8													8	
9													9	
10													10	
11													11	
12													12	
13													13	
14													14	
15													15	
16													16	
17													17	
18													18	
19													19	
20													20	
21													21	
22													22	
23													23	
24													24	
25													25	
26													26	
27													27	
28													28	
29													29	
30													30	
31													31	
32													32	
33													33	
34													34	
35													35	
36													36	
37													37	
38													38	
39													39	
40													40	



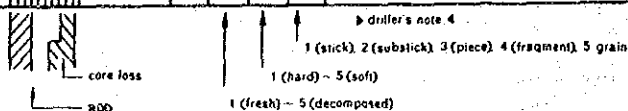
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. LS-3 (SHEET 8 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED _____
 ELEVATION 547.28 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470.787.31 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4320.347.65 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 90° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	LUGEON		
0			0 → 100									0	467.20m	43
1		+							DO					
2	Gd	+			light gray	1	1	Z	Hard and rather massive					
3		+						1	Hair crack poor					
4		+												
5		+						3	144.55					
6		+							Some cracks coated by white calcite film					
7	Db	+			dark gray	1	1	Z						
8		+												
9		+												
10	Gd	+			gray	1	1	Z	149.5					
150									150.0					



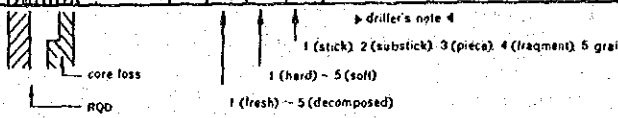
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. LSI-4 (SHEET 1 OF 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 547.28 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $\begin{matrix} X = 470.18 \\ Y = 4520.58 \end{matrix}$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 ANGLE FROM HORIZONTAL 43° TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 BEARING OF ANGLE HOLE N40°W CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION					
0m			0 = 100%									0	0m	4B
1									Slope wash				1	
2	Cl	Δ							2.05				2	
3	Db	+			dk gy	3	2	3-4	2.57				3	
4						3	2	1	Most cracks redish brown				4	
5								4	4.9				5	
6									Most cracks yellowish brown				6	
7									~ brown				7	
8	Gf							3					8	
9								2					9	
10								4					10	
11									10.71				11	
12													12	
13								2					13	
14								1	3				14	
15								1					15	
16									13.6				16	
17								2					17	
18								3	14.5				18	
19								2					19	
20								1	15.15				20	
21								2	15.8				21	
22	Db	+			dk gy	3	2	2	16.2				22	
23								2					23	
24								1	3				24	
25	Gf							2	17.28				25	
26								2	17.65				26	
27								2					27	
28								2	18.6				28	
29	Db	+			dk gy	2	2	3					29	
30								1					30	



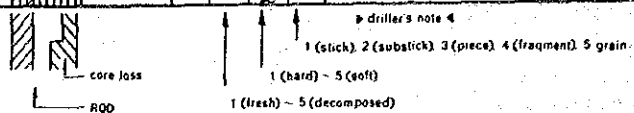
GEOLOGIC LOG OF DRILL HOLE

PROJECT

HOLE No. LSI-4 (SHEET 2 OF 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED -
 ELEVATION 547.28 m DEPTH OF OVERBURDEN - m COMPLETED -
 COORDINATE X = 470,187.31 LENGTH OF ROCK DRILLING - m DRILLED BY -
Y = 4520,567.65 TOTAL LENGTH OF CORE - m LOGGED BY -
 ANGLE FROM HORIZONTAL 43° CORE RECOVERY - %
 BEARING OF ANGLE HOLE N40°W

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHER- ING	HARD- NESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER		
0			0 = 100%								0		
1		+							A few brown cracks	P=10		1	
2		+							Some cracks coated by yellowish green film	P=10		2	
3	Gd	+							Somewhat massive	P=10		3	
4		+							23.8	P=10		4	
5		+							24.3	P=10		5	
6		+							Hair cracks some- what rich	P=10		6	
7		+							25.65	P=10		7	
8		+							25.8 Fault sheared with calcite vein- lets	P=10		8	
9		+							27.0	P=10		9	
10		+							Fragmental core slickensides with clay at 26.1-26.3m and 26.75-27.0m	P=10		10	
11		+							28.4	P=10		11	
12		+							29.0	P=10		12	
13		+							30.0	P=10		13	
14	Db	+							dark gray	P=10		14	
15		+							7	P=10		15	
16		+							27.0	P=10		16	
17		+							7	P=10		17	
18		+							2	P=10		18	
19		+							1	P=10		19	
20		+							3	P=10		20	
21		+							33.4	P=Z		21	
22		+							35.7	P=Z		22	
23	Gd	+							7	P=0		23	
24		+							2	P=0		24	
25		+							3	P=0		25	
26		+							1	P=0		26	
27		+							2	P=0		27	
28		+							37.4	P=0		28	
29		+							38.0	P=0		29	
30		+							Boundary is shear- ed 3-5cm thick	P=0		30	
31		+							38.3	P=0		31	
32		+							39.2	P=0		32	
33		+							7	P=0		33	
34		+							3	P=0		34	
35		+							7	P=0		35	
36		+							3	P=0		36	
37		+							7	P=0		37	
38		+							3	P=0		38	
39		+							7	P=0		39	
40		+							3	P=0		40	



GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. LST-4 (SHEET 3 OF 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 547.78 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470,181.31 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4320,567.65 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 43° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE N40°W

DEPTH	ROCK NAME	LOG	CORE RECOVERY	OBSERVATION OF CORE					DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
				CEMENTATION KIND OF BIT CASING	COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER		
4.0m			0-100%									4.0m	4.0
1	Db				dark gray	1		Z			P=10		1
2						1		1					2
3						Z		3	Cracky with Calcite veinlets		P=10		3
4	Gf				light gray	Z		3	Cracks coated by yellowish green film		P=10		4
5	Db				dk gray	Z-1	Z-1	3-2	Sheared with slickenside		P=10		5
6						Z		3					6
7						Z		1	Some cracks brown		P=10		7
8						Z		2	Massive in general		P=10		8
9						3		4					9
10						1		3	Brown cracks rare		P=10		10
11						Z		3-4					11
12	Gd				gray			3	Hard in general				12
13								1	Rather massive				13
14								Z					14
15					light gray	1		7			P=10		15
16								3					16
17						1		7					17
18								3					18
19								4					19
20								5					20
21								3					21
22								2					22
23								1					23
24								3					24
25								2					25
26								1					26
27								3					27
28								Z	58.15-58.2m weathered brown cracks and		P=10		28
29								Z	Somewhat Sheared				29
30								1	(W=3, H=Z, C=4)				30

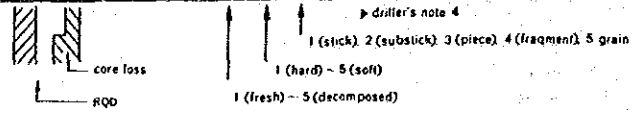
driller's note 4
 1 (stick) 2 (substick) 3 (piece) 4 (fragment) 5 grain
 core loss
 1 (hard) - 5 (soft)
 1 (fresh) - 5 (decomposed)
 RQD

GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. LSI-4 (SHEET 4 OF 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 547.28 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470,181.31 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4520,569.35 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 43° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE N40°W

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT OF CASING	OBSERVATION OF CORE					WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH		
0m			0-100%										0	546.0m
0.5	Gd	+						1	Z	60.7				
1.0	Db	-						2	4	61.15				
2.0		+												
3.0		+												
4.0		+												
5.0		+						1	1					
6.0		+						1	1					
7.0	Gd	+								66.9				
7.5		+						2	3-4	67.27				
8.0		+						1	2-3	67.7				
9.0		+						1	2					
10.0		+						1	1					
11.0		+						(2)	3					
12.0		+								70.3				
13.0		+						1	1					
14.0		+						2	2					
15.0		+						1	1					
16.0		+						2	2					
17.0		+						2	2					
18.0		+						3	4					
19.0		+						1	1					
20.0		+						1	1					
21.0		+						2	2					
22.0		+						1	1					
23.0		+						1	1					
24.0		+						2	2					
25.0		+						2	2					
26.0		+						2	2					
27.0		+						2	2					
28.0		+						2	2					
29.0		+						2	2					
30.0		+						2	2					
31.0		+						2	2					
32.0		+						2	2					
33.0		+						2	2					
34.0		+						2	2					
35.0		+						2	2					
36.0		+						2	2					
37.0		+						2	2					
38.0		+						2	2					
39.0		+						2	2					
40.0		+						2	2					
41.0		+						2	2					
42.0		+						2	2					
43.0		+						2	2					
44.0		+						2	2					
45.0		+						2	2					
46.0		+						2	2					
47.0		+						2	2					
48.0		+						2	2					
49.0		+						2	2					
50.0		+						2	2					



GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. LSI-4 (SHEET 5 OF 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED _____

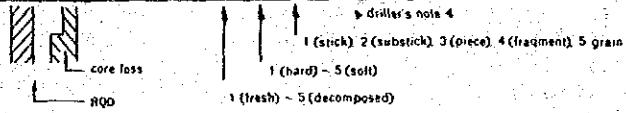
ELEVATION 547.28 m DEPTH OF OVERBURDEN _____ m COMPLETED _____

COORDINATE Y = 4328.131, X = 4328.131 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____

ANGLE FROM HORIZONTAL 43° TOTAL LENGTH OF CORE _____ m LOGGED BY _____

BEARING OF ANGLE HOLE N40°W CORE RECOVERY _____ %

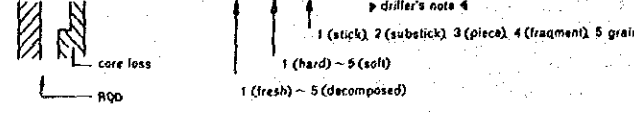
DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTA- KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHER- ING	HARD- NESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER		
0			0 = 100 %									0	547.28
1	Cr d	+			H dk gy	Z	3	4	80.5				
2		+				Z	1	3	81.3				
3		+					2	4	81.75	clayey			
4		+					3	3	82.5				
5		+					4-5	5-4	82.85				
6	Db	+			dark green		4	4	83.75				
7		+					4	5		Fault: 81.3 ~ 97.2m			
8		+			dark grey ~ dark green		4	5		Altered to clayey mineral in general			
9		+			dark grey ~ dark green		1	1		Fragment ~ silty core dominant			
10		+			dark grey ~ dark green		5	4		83.87 ~ 84.35m: sandy ~ silty core			
11		+							88.02				
12		+					3	3	88.57				
13		+					4	5	89.0				
14		+					3	4	89.42				
15		+							90.02				
16		+							90.2				
17	Cr d	+			pink wt	Z	Z	Z	90.02				
18		+							90.2				
19		+								silty core			
20		+							92.25				
21		+											
22		+							93.5				
23		+							93.9				
24		+											
25		+											
26		+							95.6				
27	Db	+			gray	3	3	4	96.5				
28		+							97.2				
29		+											
30		+											
31		+											
32		+											
33		+											
34		+											
35		+											
36		+											
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97		+											
98		+											
99		+											
100		+											



GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. RS-5 (SHEET 1 OF 7)
 LOCATION Right Bank DEPTH OF HOLE 125 m COMMENCED _____
 ELEVATION 518.60 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470.258, 61
Y = 4520.469, 93 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 ANGLE FROM HORIZONTAL 90° TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 BEARING OF ANGLE HOLE _____ CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING					
0.0			0 = 100%								0	0m	43
1		Δ										1	
2		Δ										2	
3		Δ										3	
4		Δ										4	
5		Δ										5	
6		Δ										6	
7		Δ										7	
8	Ta	Δ										8	
9		Δ										9	
10		Δ										10	
11		Δ										11	
12		Δ										12	
13		Δ										13	
14		Δ										14	
15		Δ										15	
16		Δ										16	
17		Δ										17	
18		Δ										18	
19	Al	○										19	
20		○										20	



GEOLOGIC LOG OF DRILL HOLE

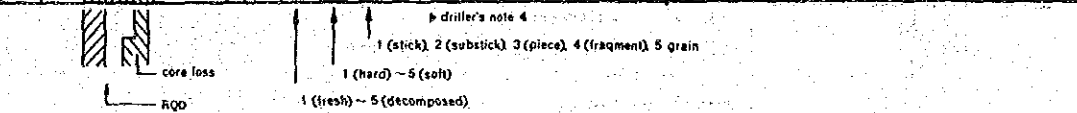
PROJECT

HOLE No. AS-5 (SHEET 2 OF 7)

LOCATION Right Bank DEPTH OF HOLE 12.5 m COMMENCED _____
 ELEVATION 518.60 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470,257.61 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 452,044.93 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 90° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					WATER TABLE WATER PRESSURE TEST LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION			
2.0m			0-100%								0	40
1												1
2												2
3												3
4												4
5												5
6												6
7												7
8												8
9												9
30												30
1												1
2												2
3												3
4												4
6												6
6												6
7												7
8												8
9												9
40												40

Do
21.2
Do
 Containing some rock fragments
25.45
 Angular rock fragments
26.6
 Sorting poor sand
27.9
 Subrounded gravel and sand
 Core recovery poor in general
26.75
 4 Sheared with cal. - Qz veinlets
 4 1 Very crackly in general
 5

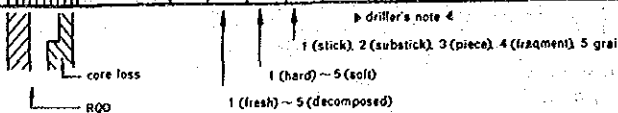


GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. RS-5 (SHEET 3 OF 7)

LOCATION <u>Right Bank</u>	DEPTH OF HOLE <u>12.5</u> m	COMMENCED _____
ELEVATION <u>518.60</u> m	DEPTH OF OVERBURDEN _____ m	COMPLETED _____
COORDINATE <u>X = 470,258.61</u> <u>Y = 4570,279.93</u>	LENGTH OF ROCK DRILLING _____ m	DRILLED BY _____
ANGLE FROM HORIZONTAL <u>90°</u>	TOTAL LENGTH OF CORE _____ m	LOGGED BY _____
BEARING OF ANGLE HOLE _____	CORE RECOVERY _____ %	

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION					
4.0m			0-100%										4.0m	
1		+											1	
2	Db	+			dark greenish grey	w	4	4	4	Do. Most core are sheared. Partially rather fresh core gained.			2	
3		+								Some brown cracks. Veinlets rich and altered to secondary minerals (chlorite)			3	
4		+								44.4			4	
5	Gd	+			wt	3	3	4	4				5	
6	Db	+			dk gr. gy	w	4	4	4				6	
7		+						3	4	Brown cracks rare			7	
8		+						4	3	49.9			8	
9	Gd	+			white	2	3	3	3	48.5 Hair crack rich			9	
10		+						4	4				10	
11		+						1	3	49.95			11	
12		+						3	3	Hair crack rich. Somewhat sheared. 51.0 with veinlets			12	
13		+						4	4	Sheared with calc. Bz veinlets.			13	
14		+			dark greenish grey	3	4	4	4	52.85 Altered to secondary greenish minerals			14	
15	Db	+						3	3	53.9			15	
16		+						4	4	Brittle in general			16	
17		+						1	5	55.2			17	
18		+						3	4	55.8 Many small slickensides			18	
19		+						4	4				19	
20		+						4	3	58.05			20	
21		+						4	4	Some cracks yellow. Brown. Fragment core dominant			21	
22	Gd	+			white	2	4	4	4				22	
23		+						1	5				23	

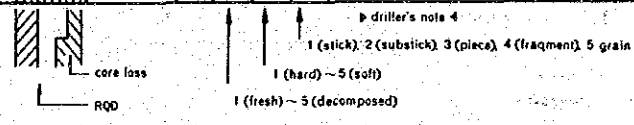


GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. RS-5 (SHEET 4 OF 7)

LOCATION Right Bank DEPTH OF HOLE 125 m COMMENCED _____
 ELEVATION 518.40 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE N = 478.25, E = 520.22, 83 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 ANGLE FROM HORIZONTAL 90° TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 BEARING OF ANGLE HOLE _____ CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING						
0			0 → 100									0	46.0m	
1		+												
2		+												
3	Grd	+			white	2	4	4						
4		+												
5		+												
6		+												
7		+												
8		+												
9		+												
70	Db	+			grey	1	4	3						
1		+												
2		+												
3		+												
4		+												
5		+												
6	Grd	+			white	2	4	4						
7		+												
8		+												
9	Db	+			dk grey	1	4	4						
80		+												

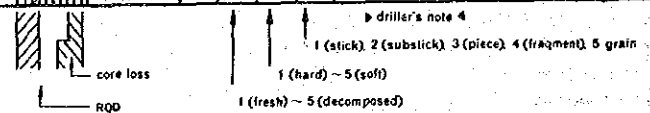


GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. RS-5 (SHEET 5 OF 7)

LOCATION Right Bank DEPTH OF HOLE 125 m COMMENCED _____
 ELEVATION 518.60 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $\phi = 470.23401$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 $\lambda = 4620.72983$ ANGLE FROM HORIZONTAL 90° TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 BEARING OF ANGLE HOLE _____ CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER		
0m			0 = 100%								0	40.80m	
1		+					3	1	Fresh but cracky			1	
2	Db	+			dark grey		4	2				2	
3		+					3-4	3	82.3 Sheared and altered to greenish			3	
4		+					3	1	84.0			4	
5	Grd	#			white		3	1	84.5 Some hair cracks			5	
6		#					3	2	85.7			6	
7		+					3	1				7	
8		+			dark grey		2	1				8	
9		+					2	1	88.9			9	
10		+			dark grey		3	3	Somewhat cracky			10	
11		+					4	1				11	
12		+					4	3				12	
13	Db	+					3	1	91.95			13	
14		+					2	1				14	
15		+					2	2	93.0			15	
16		+					2	3	A few cracks brown Cracks partially coated by green epidote.			16	
17		+			grey		2	2	Some hair cracks			17	
18		+					2	1				18	
19		+					2	1	97.45			19	
20		+			dark grey		2	2	Some hair cracks			20	
21		+					2	2	99.0			21	
22		+					2	1				22	
23		+					2	1				23	
24		+					2	1				24	
25		+					2	1				25	
26		+					2	1				26	
27		+					2	1				27	
28		+					2	1				28	
29		+					2	1				29	
30		+					2	1				30	
31		+					2	1				31	
32		+					2	1				32	
33		+					2	1				33	
34		+					2	1				34	
35		+					2	1				35	
36		+					2	1				36	
37		+					2	1				37	
38		+					2	1				38	
39		+					2	1				39	
40		+					2	1				40	
41		+					2	1				41	
42		+					2	1				42	
43		+					2	1				43	
44		+					2	1				44	
45		+					2	1				45	
46		+					2	1				46	
47		+					2	1				47	
48		+					2	1				48	
49		+					2	1				49	
50		+					2	1				50	
51		+					2	1				51	
52		+					2	1				52	
53		+					2	1				53	
54		+					2	1				54	
55		+					2	1				55	
56		+					2	1				56	
57		+					2	1				57	
58		+					2	1				58	
59		+					2	1				59	
60		+					2	1				60	
61		+					2	1				61	
62		+					2	1				62	
63		+					2	1				63	
64		+					2	1				64	
65		+					2	1				65	
66		+					2	1				66	
67		+					2	1				67	
68		+					2	1				68	
69		+					2	1				69	
70		+					2	1				70	
71		+					2	1				71	
72		+					2	1				72	
73		+					2	1				73	
74		+					2	1				74	
75		+					2	1				75	
76		+					2	1				76	
77		+					2	1				77	
78		+					2	1				78	
79		+					2	1				79	
80		+					2	1				80	
81		+					2	1				81	
82		+					2	1				82	
83		+					2	1				83	
84		+					2	1				84	
85		+					2	1				85	
86		+					2	1				86	
87		+					2	1				87	
88		+					2	1				88	
89		+					2	1				89	
90		+					2	1				90	
91		+					2	1				91	
92		+					2	1				92	
93		+					2	1				93	
94		+					2	1				94	
95		+					2	1				95	
96		+					2	1				96	
97		+					2	1				97	
98		+					2	1				98	
99		+					2	1				99	
100		+					2	1				100	



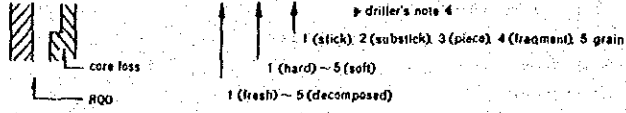
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. RS-5 (SHEET 6 OF 7)

LOCATION Right Bank DEPTH OF HOLE 125 m COMMENCED _____
 ELEVATION 518.60 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $X = 470,357.66$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 $Y = 4820,369.93$ ANGLE FROM HORIZONTAL 20° TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 BEARING OF ANGLE HOLE _____ CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION					
100m			0 = 100%									0	100m	
1		+					1	1	Massive			1.0	1	
2		+					1	2				1.0	2	
3		+										1.0	3	
4		+					1	103.7				1.0	4	
5		+					1	2	Some hair cracks			0	5	
6		+					1	1				0	6	
7	Db	+					2	3				0	7	
8		+										0	8	
9		+					1	3	108.5			0	9	
10		+					2	1	Somewhat cracky			0	10	
11		+					2	4	Cracks coated by gel. green filut			0	11	
12		+							110.0			0	12	
13		+					1	2				0	13	
14		+					1	1				0	14	
15		+					2	3				0	15	
16		+										0	16	
17		+					1	2	113.7			0	17	
18		+					1-2	3	114.3	Crackly		0	18	
19		+										0	19	
20		+					1	2				0	20	
21		+										0	21	
22		+					1	3	115.7			0	22	
23		+					1	1				0	23	
24		+					1	2				0	24	
25		+					1	4	117.2			0	25	
26	Gd	+					2	2	Some hair cracks			0	26	
27		+					1	1				0	27	
28		+					1	3				0	28	
29		+					2					0	29	
30		+							119.7			0	30	
120		+										0	120	



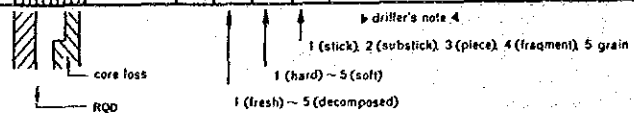
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. RS-5 (SHEET 7 OF 7)

LOCATION <u>Right Bank</u>	DEPTH OF HOLE <u>125</u> m	COMMENCED _____
ELEVATION <u>518.60</u> m	DEPTH OF OVERBURDEN _____ m	COMPLETED _____
COORDINATE <u>X = 470237.01</u> <u>Y = 4520428.95</u>	LENGTH OF ROCK DRILLING _____ m	DRILLED BY _____
ANGLE FROM HORIZONTAL <u>90°</u>	TOTAL LENGTH OF CORE _____ m	LOGGED BY _____
BEARING OF ANGLE HOLE _____	CORE RECOVERY _____ %	

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BITTING CASING	OBSERVATION OF CORE					WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION					
120m			0 → 100%										120m	43
1	Gnd	+			light grey	1	1	3	Some cracks coated by yel. green epidote.	---				
2		1				2								
3		2												
4	Db	+			light grey	1	1-2	2-3	123.5 123.7 → Epidote alteration	---				
5		1				2	3	Some hair cracks						
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														

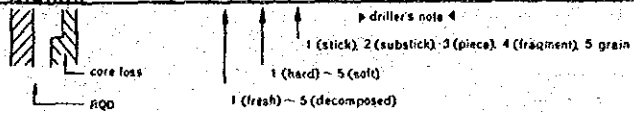


GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. RSI-6 (SHEET 1 OF 5)

LOCATION Right Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 524.23 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $X = 470,267.80$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 $Y = 4520,465.74$ TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 45° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE S60°E

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH		
0			0-100%									0	40	0m
1	S1	Δ							slope wash					
2		+							A few cracks brown					
3	Gf				light gray	1	1	1	Hard in general					
4		+							Hair crack poor					
5	Db	+			gy	1	1	1						
6	Gd	+			gy	1	1	1						
7		+												
8	Db	+			dark gray	1	1	1						
9		+												
10		+												
11		+												
12		+												
13	Gd	+			light gray	1	1	1						
14		+							Somewhat brecciated and brittle					
15		+												
16		+												
17		+												
18		+												
19	Gf				dk gy	1	1	1	Some hair cracks					
20		+							A few cracks brown					
									Some cracks coated by yellow chlorite					



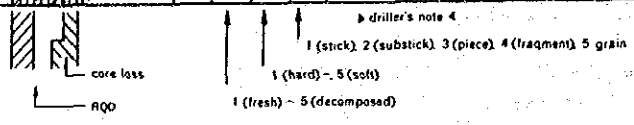
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. RSI-6 (SHEET 2 OF 5)

LOCATION Right Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 524.23 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470,227.80 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4320,225.74 ANGLE FROM HORIZONTAL 45° TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 BEARING OF ANGLE HOLE S60°E CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTA- TYPED KIND OF BIT CASING	OBSERVATION OF CORE					WATER TABLE			DEPTH	ELEVATION	
					COLOR	WEATHER- ING	HARD- NESS	CORE CUTTING	DESCRIPTION	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	LUGEON			
0			0-100										0	43	
1	Db	+			gray	1	1-2	2-3	20.6	Some hair cracks	P=0	Q=35.0	T=50	14.0	42
2		+			dark gray	2	1	2			P=2				41
3	Gd	+			gray	1	1	1	22.9		P=2				40
4		+			gray	1	1	1	24.0		P=10	Lu=6.6			39
5		+			gray	1	1	1		Massive in general	P=10	Lu=6.6			38
6	Db	+			gray	1	1	1			P=10	Lu=10.3			37
7		+			dark gray	2	2-3	2-3	27.1		P=10	Lu=10.3			36
8		+			dark gray	2	1	1			P=10	Lu=0.6			35
9		+					2	2	29.7		P=10	Lu=0.6			34
10	Gd	+			gray	1	1	1			P=10	Lu=18			33
11		+			gray	1	1	1			P=10	Lu=32.2			32
12	Db	+			dk gray	2	3	3-4	33.5		P=10	Lu=32.2			31
13		+			gray	1	1	1	34.5	Slickensides at 34.0m with chlorite veinlets	P=10	Lu=29.7			30
14	Gd	+			gray	1	1	1			P=10	Lu=29.7			29
15		+			dark gray	2	1	1	36.9		P=1	Lu=142.3			28
16	Db	+			dark gray	2	3	3			P=1	Lu=142.3			27
17		+							37.15~37.25m	chlorite veinlets	P=10	Lu=5.2			26
18		+			gray	1	1	1			P=10				25
19	Gd	+			gray	1	1	1			P=10				24
20		+									P=10				23

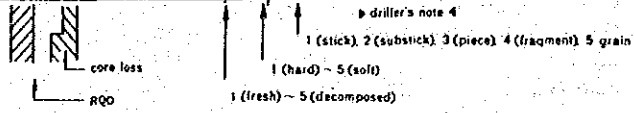


GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. RSI-6 (SHEET 3 OF 5)

LOCATION Right Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 524.23 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE Y = 470,247.80 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4820,235.74 ANGLE FROM HORIZONTAL 45° TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 BEARING OF ANGLE HOLE S60°E CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	WATER PRESSURE TEST		LEAKAGE OF DRILLING WATER	LUGEON		
0			0 → 100									0		
0.5	Gd	+			gy	1-2	1	2-1	40.4		P=10		0.5	
1	Db	-			gy	1-2	1	2-1	40.8				1	
1.5		+								Brown cracks rare			1.5	
2		+			gray	1		Z		Hair cracks poor			2	
2.5	Gd	+								Massive			2.5	
3		+											3	
3.5		+											3.5	
4		+											4	
4.5									44.65				4.5	
5	Db	-			dk	1		Z					5	
5.5					gy	1		Z	45.7				5.5	
6	Gd	+			lt gray	1		Z		Some cracks coated by yel. gn film			6	
6.5													6.5	
7									47.1				7	
7.5	Db	-			dk	1		Z	47.75				7.5	
8		+											8	
8.5		+											8.5	
9	Gd	+			light gray	1		Z					9	
9.5		+											9.5	
10									50.6				10	
10.5									50.8				10.5	
11									51.2				11	
11.5													11.5	
12	Db	-			dk	1		Z					12	
12.5					gy	1		3	52.2				12.5	
13	Gd	+			gy	1-2	1	2-3	52.5				13	
13.5	Db	-			gy	1-2	1	2-3	52.9				13.5	
14	Gd	+			lt			Z					14	
14.5													14.5	
15													15	
15.5	Db	-			dk	1		Z	54.0				15.5	
16													16	
16.5													16.5	
17	Gd	+			light gray	1		Z					17	
17.5													17.5	
18													18	
18.5													18.5	
19	Db	-			dk gray	1		Z	55.0				19	
19.5													19.5	
20													20	
20.5													20.5	
21	Gd	+											21	
21.5													21.5	
22													22	
22.5													22.5	
23													23	
23.5													23.5	
24													24	
24.5													24.5	
25	Db	-											25	
25.5													25.5	
26													26	
26.5													26.5	
27													27	
27.5													27.5	
28													28	
28.5													28.5	
29													29	
29.5													29.5	
30													30	



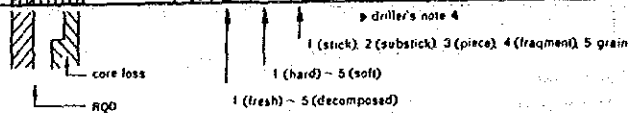
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. RSI-6 (SHEET 4 OF 5)

LOCATION Right Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 524.23 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $x = 470,267.80$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 $y = 4320,433.74$ TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 45° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE S60°E

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BITTING CASING	OBSERVATION OF CORE					DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	WATER PRESSURE TEST		LEAKAGE OF DRILLING WATER			
0			0 = 100%									0	60m	
1	Db	+			gy	1	1	3						
2	Gf	+			lt gray	1	1	3						
3	Db	+			gy	1	2	3	62.7	Hair cracks rich.				
4	Gd	+			gy	1	2	4	64.2					
5	Db	+			gy	1	1	2	64.7					
6		+							65.45					
7	Gd	+			light gray	1	1	1		Weak alteration of chlorite				
8		+												
9		+							68.7					
10	Db	+			dark gray	1	1	3	70.0	Cracky with cal-Qz veinlets				
11		+												
12		+							72.0					
13	Gd	+			lt gray	1	1	1						
14		+												
15		+							74.0					
16		+							74.2					
17	Db	+			gray	1	1	2		A few cracks brown slightly				
18		+												
19		+												
20	Gd	+			dark gray	1	1	2	78.6					
21		+							79.25					
22		+												

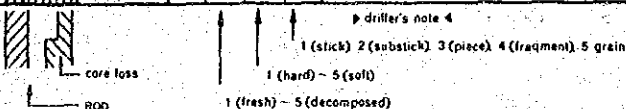


GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. RSI-6 (SHEET 5 of 5)

LOCATION Right Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 524.23 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470,267.80 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 Y = 4520,255.74 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 45° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE S60°E

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					WATER TABLE	WATER PRESSURE TEST	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION				
0m			0-100%								0	40.8m	43
1		#					2-3	80.5					
1		#					1	81.0					
2	Gd	#				light gray	1	2	81.65				
3		#					1	3					
4		#					1	1					
5		#					2	4	83.45				
6	Db	+				dark gray					P = 10		
7		+					1	1					
8		#											
9	Gd	#					1	2	85.9				
10		+					1	2	86.4				
11	Db	+					1	2	86.9 Cracky				
12		#					2	3-4			P = 10		
13		#					2	3	87.7				
14		#					1	2	88.65				
15		#					2	3-4	89.1				
16		#							Some cracks coated by yel green film				
17		#					1	2	88.65				
18		#					2	3-4	89.1				
19		#							Brown cracks rare				
20	Gd	#				light gray	1	2					
21		#					1	1					
22		#					2	3					
23		#							92.2				
24		#					2	3-4	92.7				
25		#											
26		#					1	1					
27		#							95.0				
28	Db	+				dk gray	1	2	3				
29		+					2	1	4	96.2			
30		#							Cracky with small slickensides				
31		#											
32		#											
33		#											
34		#											
35		#											
36		#											
37		#											
38	Gd	#				light gray	1	1					
39		#					1	3					
40		#							88.4				
41		#					2	3					
42		#					2	1	3				
43		#					3	4	99.3				
44		#							Cracky				
45		#					1	2					

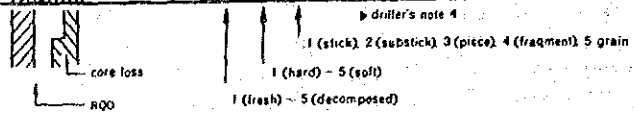


GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. RSH-7 (SHEET 1 OF 4)

LOCATION Right Bank DEPTH OF HOLE 75 m COMMENCED _____
 ELEVATION 574.23 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470,267.80 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4320,569.74 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 0° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE S60E

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF CASING	OBSERVATION OF CORE					WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION					
0m			0 = 100%									0	40	0m
1	Sl	Δ							slope wash					1
2	Gd	≠			1f	2	1	2	1.3 Some cracks brown					2
3	Gf	+			1f	1	1	2	A few cracks brown					3
4					1f	2	3	3	4.25					4
5	Gd	≠			1f	1	1	2						5
6					1f	2	3	3	6.5					6
7					1f	1	1	1	Some hair cracks					7
8	Db	+			1f	1	1	1						8
9					2f	2	2	2	9.3					9
10					1f	1	1	1	Rather massive Granitic					10
11					1f	1	1	1						11
12	Gd	≠			2f	2	2	2						12
13					2f	2	2	2						13
14					1f	1	1	1	14.0					14
15	Gf	≠			2f	2	2	3	Somewhat cracky cracks coated by chlorite					15
16					1f	1	1	1	15.0					16
17	Gd	≠			1f	1	1	1	Granitic A few cracks brown some hair cracks					17
18					2f	2	2	2						18
19					1f	1	1	1	18.0					19
20	Gf	+			2f	2	2	2	Some hair cracks					20



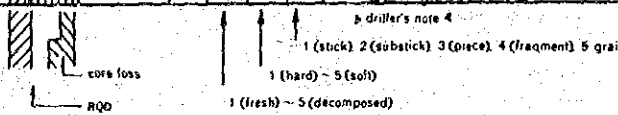
GEOLOGIC LOG OF DRILL HOLE

PROJECT

HOLE No. RSH-7 (SHEET 2 OF 4)

LOCATION Right Bank DEPTH OF HOLE 75 m COMMENCED -
 ELEVATION 574.23 m DEPTH OF OVERBURDEN - m COMPLETED -
 COORDINATE X = 470,267.80 LENGTH OF ROCK DRILLING - m DRILLED BY -
Y = 4520,255.74 TOTAL LENGTH OF CORE - m LOGGED BY -
 ANGLE FROM HORIZONTAL 0° CORE RECOVERY - %
 BEARING OF ANGLE HOLE S60°E

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				WATER TABLE	WATER PRESSURE TEST	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING				
2.0m			0 to 100%							0	40.20m	
1												
2					gray	1	1	Z	Some hair cracks			
3												
4	Db											
5												
6												
7												
8					gray	1	1	Z	Some portions cracky (c=a), but somewhat massive in general			
9	Gd											
30	Db				dark	Z	Z	3	Some hair cracks			
1	Gd											
2	Db											
3					gray	1	1	Z				
4	Db											
5												
6					dk	7	3	3-4	34.9			
7					gy	2	1-2	3	35.5			
8												
9												
7					gray	1	3	3	Somewhat cracky			
8	Db											
9												
40	Db				gray	Z	Z	4	Crackly with chlorite veinlets and cal-QZ veinlets			



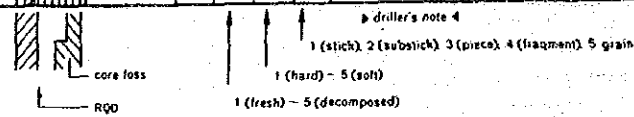
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. RSH-7 (SHEET 3 of 4)

LOCATION Right Bank DEPTH OF HOLE 75 m COMMENCED _____
 ELEVATION 524.23 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470,287.80 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4520,435.74 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 0° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE S60°E

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BITTING CASING	OBSERVATION OF CORE					DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	WATER PRESSURE TEST		LEAKAGE OF DRILLING WATER	LUGEON		
4.0m			0-100%									0	40.40m	43
1	Db	+			gray	1	1	2		Some hair cracks				
						1	1	1						
						2	2	3	41.5					
2	Gd	+			lt gray	2	2	3		Hair crack rich				
						2	2	4	42.9					
3	Db	+			dk gray	3	4	4		Brecciated shear zone. Many small slickensides, cracks generally brown				
						3	1	1						
						3	3	3	44.2					
4	Gd	+			lt gray	2	2	2		Hair cracks rich				
						2	2	3	45.35					
5	Db	+			dk gray	2	3	4	46.0					
						2	3	3		Hair cracks rich				
						2	3	3		Fragment core dominant				
6	Gd	+			gray	2	3	4	48.7					
						2	3	1		Cracky with calc-oz veinlets				
						2	3	3	50.5	Many small slickensides				
7	Db	+			gray	1	1	1						
						1	2	2	51.3					
						2	2	4	51.5					
8	Gd	+			dark	1	2	1		Hair cracks rich				
						1	2	1						
						2	3	3						
						2	3	3	54.3					
9	Db	+			gray	1	1	3						
						1	2	4	55.0					
						1	3	1	55.75					
						2	2	2						
10	Gd	+			gray	1	1	3						
						1	1	1	57.2					
						2	2	2						
11	Db	+			gray	1	1	2		Massive				
						1	1	2						
						2	2	2						



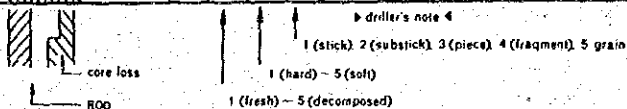
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. RSH-7 (SHEET 4 OF 4)

LOCATION Right Bank DEPTH OF HOLE 75 m COMMENCED _____
 ELEVATION 524.23 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470,267.80 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4520,435.74 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 0° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE S60°E

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE			DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHER- ING	HARD- NESS		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER		
0			0-100%								0	
0.5	Gd	+										
1	Db	+					1 2	A few cracks brown				
2		+					1 1	Some hair cracks coated by yel. green chlorite.				
3		+					2 3	62.8				
4		+					3 4	63.7 Cracky				
5		+					1 2	somewhat cracky				
6		+					1 1					
7	Grd	+					2 3	65.3				
8		+					2 3					
9		+					1 2					
10		+					2 3					
11		+					1 2					
12		+					1 1					
13		+					2 3					
14		+					1 2					
15		+					1 1					
16		+					2 3					
17		+					1 2					
18		+					1 1					
19		+					2 3					
20		+					1 2					
21		+					1 1					
22		+					2 3					
23		+					1 2					
24		+					1 1					
25		+					2 3					
26		+					1 2					
27		+					1 1					
28		+					2 3					
29		+					1 2					
30		+					1 1					
31		+					2 3					
32		+					1 2					
33		+					1 1					
34		+					2 3					
35		+					1 2					
36		+					1 1					
37		+					2 3					
38		+					1 2					
39		+					1 1					
40		+					2 3					
41		+					1 2					
42		+					1 1					
43		+					2 3					
44		+					1 2					
45		+					1 1					
46		+					2 3					
47		+					1 2					
48		+					1 1					
49		+					2 3					
50		+					1 2					
51		+					1 1					
52		+					2 3					
53		+					1 2					
54		+					1 1					
55		+					2 3					
56		+					1 2					
57		+					1 1					
58		+					2 3					
59		+					1 2					
60		+					1 1					
61		+					2 3					
62		+					1 2					
63		+					1 1					
64		+					2 3					
65		+					1 2					
66		+					1 1					
67		+					2 3					
68		+					1 2					
69		+					1 1					
70		+					2 3					
71		+					1 2					
72		+					1 1					
73		+					2 3					
74		+					1 2					
75		+					1 1					



GEOLOGIC LOG OF DRILL HOLE

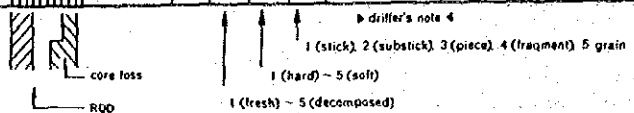
PROJECT _____

HOLE No. RS-8 (SHEET 1 OF 5)

LOCATION Right Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 498.37 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $X = 470,222.78$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 $Y = 4520,498.27$ TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 90° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING					
0m			0 → 100								0	0m	
1			○									1	
2			○									2	
3			○									3	
4			○									4	
5			○									5	
6			○									6	
7			○									7	
8			○									8	
9		A1	○									9	
10			○									10	
11			○									11	
12			○									12	
13			○									13	
14			○									14	
15			○									15	
16			○									16	
17			○									17	
18			○									18	
19			○									19	
20			○									20	

Core recovery is poor (≈ 30%)
 Gravel (round in gravel) and sand gained



GEOLOGIC LOG OF DRILL HOLE

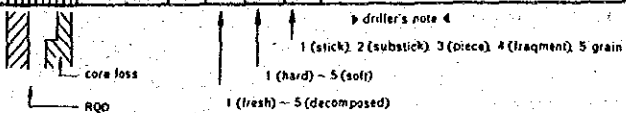
PROJECT _____ HOLE No. RS-8 (SHEET 2 OF 5)

LOCATION Right Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 498.37 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $x = 470,222.78$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 $y = 4520,498.27$ TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 90° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE WATER PRESSURE TEST LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING				
0m			0-100							0	498.37	
1											497.37	
2											496.37	
3											495.37	
4											494.37	
5											493.37	
6											492.37	
7											491.37	
8											490.37	
9											489.37	
10											488.37	
11											487.37	
12											486.37	
13											485.37	
14											484.37	
15											483.37	
16											482.37	
17											481.37	
18											480.37	
19											479.37	
20											478.37	

Do
 Core recovery = 40%
 Maximum gravel
 size = 50cm

A1



GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. RS-8 (SHEET 3 of 5)

LOCATION Right Bank DEPTH OF HOLE 100 m COMMENCED _____

ELEVATION 498.37 m DEPTH OF OVERBURDEN _____ m COMPLETED _____

COORDINATE X = 470,222.78 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____

Y = 4520,428.29 TOTAL LENGTH OF CORE _____ m LOGGED BY _____

ANGLE FROM HORIZONTAL 90° BEARING OF ANGLE HOLE _____ CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	LUGEON		
0			0-100										0	498.37
1	Al	o												
2		o						41.8						
3		+					3	Z 3-4 42.4	All cracks brown					
4		+						Z 3 44.0						
5		+						Z 3-4 44.5	Some cracks yellowish brown					
6		+					Z	Z 1 1	Some cracks coated by chlorite film					
7		+						Z 3	Some hair cracks	P=6				
8		+							Some cracks coated by yellow chlorite film					
9	Gr	+						Z 1		P=10				
10		+						4	Cracky					
11		+						Z 2	Some hair cracks					
12		+						Z 3 51.55						
13		+						Z 3 52.0						
14		+						Z 2		P=10				
15		+						Z 1 53.25						
16		+						Z 3 53.85						
17		+						Z 1 54.45						
18		+						Z 2 55.0						
19		+						Z 4 55.3	cracky					
20		+						Z 3 56.2						
21		+						Z 2 57.1	cracky, altered to chlorite slightly					
22		+						Z 3 58.4		P=10				
23		+						Z 3	slice core some small slickenside					
24		+						Z 3 59.6						

driller's note 4

1 (stick) 2 (substick) 3 (piece) 4 (fragment) 5 grain

1 (hard) - 5 (soft)

1 (fresh) - 5 (decomposed)

core loss

RQD

GEOLOGIC LOG OF DRILL HOLE

PROJECT: _____ HOLE No. RS-8 (SHEET 4 OF 5)

LOCATION Right Bank DEPTH OF HOLE 100 m COMMENCED _____

ELEVATION 498.37 m DEPTH OF OVERBURDEN _____ m COMPLETED _____

COORDINATE X = 470,222.78 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____

Y = 4570,478.29 TOTAL LENGTH OF CORE _____ m LOGGED BY _____

ANGLE FROM HORIZONTAL 90° CORE RECOVERY _____ %

BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF CASING	OBSERVATION OF CORE					DESCRIPTION	WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	WATER PRESSURE TEST		LEAKAGE OF DRILLING WATER	LUGEON			
6.0m			0-100										40	6.0m	4.3
1	Gr	+			light gray	1	2			A few hair cracks					
2		+			light gray	1	3								
3	Db	+			dk gray	1	3			62.5					
4	Gr	+			dk gray	1	2			63.0					
5	Db	+			dk gray	1	1			Granitic veins intruded into diabase					
6	Gr	+			dk gray	1	1								
7	Db	+			mix	1	1			65.55					
8		+			light gray	1	2			Some hair cracks					
9		+			light gray	1	3								
10	Db	+			dk gray	1	3			69.0					
11		+			dk gray	1	3			70.0 very cracks with slickensides					
12		+			dk gray	1	3			70.6 Cal-Oz film and slickensides					
13		+			dk gray	1	3			Some cal-Oz veinlets					
14	Gd	+			light gray	1	2			72.05					
15	Db	+			light gray	1	2								
16	Gd	+			light gray	1	3			74.3					
17		+			light gray	1	4			75.0 clacky					
18	Gd	+			light gray	1	2								
19		+			light gray	1	2			Rather massive					
20		+			light gray	1	1			77.35					
21	Db	+			dk gray	1	2								
22		+			dk gray	1	3			79.0					
23	Gd	+			dk gray	1	2								
24		+			dk gray	1	2			Some hair cracks					

driller's note

1 (stick) 2 (substick) 3 (piece) 4 (fragment) 5 grain

1 (hard) - 5 (soft)

1 (fresh) - 5 (decomposed)

core loss

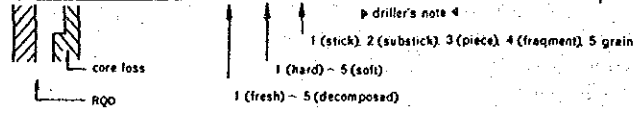
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GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. RS-8 (SHEET 5 OF 5)

LOCATION Right Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 498.37 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470,222.78 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4520,478.29 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 90° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH		
0			0-100									0	498.37	
1	Gd	+			light gray				Fresh					
1	Db	+					1 1		Some hair cracks					
2	Gd	+			light gray		1 1							
3	Db	+			dark gray		2 2							
4														
5	Gd	+			light gray		1-2 3	84.4	slice core dominant					
6					light gray		1 1							
7	Db	+			light gray		2 3	86.75	sheared with col-Qz veinlets					
8					dark gray		1 2	88.2	Fault (sh + cl = Zcm) at 88.2					
9					dark gray		2 3							
10								90.5						
1	Gr	+			light gray		1 2		Hair crack rich					
2	Db	+			gray		1 3	92.0	Somewhat cracky with col-Qz veinlets					
3					gray		1 3	93.4						
4	Gr	+			light gray		1 1		Some cracks coated by yel. green chlorite					
5					gray		2 3	95.0						
6					gray		1 2	96.6						
7	Db	+			dark gray		1 1	98.9	Some hair crack					
8							1 1							
9					gray		1 2	100.0	Some slickensides					



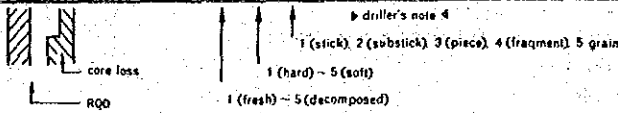
GEOLOGIC LOG OF DRILL HOLE

PROJECT

HOLE No. LS-9 (SHEET 1 OF 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 597.24 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $\phi = 410.770.81$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 $\lambda = 2520.631.53$ TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 90° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION					
0			0-100%									0	0m	4
1	Sl	Δ							Slope wash				1	
2		Δ											2	
3									3.0				3	
4	Db	+						2	Some cracks brown				4	
5	Gr	+						1					5	
6								3	5.65				6	
7								2	6.45				7	
8								2					8	
9								1					9	
10	Db	+						3					10	
11								2	10.3				11	
12								3	10.6				12	
13								4	Cracks altered to chlorite				13	
14								3	12.2				14	
15								2	Cracks brown				15	
16								1	13.4				16	
17								2	14.0				17	
18								1	Rather intact				18	
19								2	15.8				19	
20								3	cracks brown				20	
21								4	Some cracks coated by yel. gn. chlo.				21	
22								1	17.3				22	
23								2	rite				23	
24	Gd	+						1	Some cracks brown				24	
25								1	19.5				25	
26	Gr	+						2	Hair cracks rich				26	
27								3					27	
28								1					28	
29								2					29	
30								3					30	



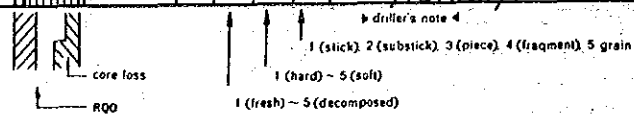
GEOLOGIC LOG OF DRILL HOLE

PROJECT

HOLE No. LS-9 (SHEET 2 OF 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 597.24 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470,170.81 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4520,431.33 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 90° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE		DEPTH	ELEVATION	
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER			
0			0-100								0	40	2	0m
1		+			white	1 1	1	3	NO brown cracks Some cracks coated by yellow chl.	P=10				1
2		+			white	1-2	2-3	4-5	21.9 Brecciated (fault?) Fragment core	P=10				2
3	Gr	+			light gray	1	1	4	Brown cracks rare Most cracks coated by chlorite film	P=10				3
4		+			light gray	1	7	3	23.8 Cracky	P=10				4
5		+			light gray	2	1	2	Somewhat massive Cracky portions	P=10				5
6		+						3	26.2	P=10				6
7		+				3	2	4	Most cracks brown Easy to break along cracks	P=10				7
8	Db	+			dark gray	2-3	2	3-4	27.3 27.9	P=10				8
9		+			dark gray	3	3	1	Brittle Slickensides at 28.45-28.6m 28.75-28.95m 30.0 29.65-30.0m	P=10				9
10	Gr	+			light gray	2	3	3	30.5 Some cracks brown	P=10				10
11	Db	+			light gray	2	4	1	Fragment core dominant with clay	P=10				11
12	Gr	+			light gray	3	1	5	32.1 (sheared zone?)	P=10				12
13	Db	+			dark gray	3	1	3	Some cracks brown Slickensides at 32.95m, 33.15m	P=10				13
14	Gr	+			dark gray	2	2	2	34.0 and 33.35m	P=10				14
15	Db	+			dark gray	3	4-5	4-6	34.6	P=10				15
16		+			light gray	3	3	4	Most cracks yellow brown Cracky in general Fragment core	P=10				16
17	Gr	+			light gray	3	3	4	37.7	P=10				17
18		+				3	4	4	38.4	P=10				18
19	Db	+			dk gray	3	3	4	Most cracks brown or coated by calcite film. Sheared weakly, cracky.	P=10				19
20		+				3	3	3		P=10				20



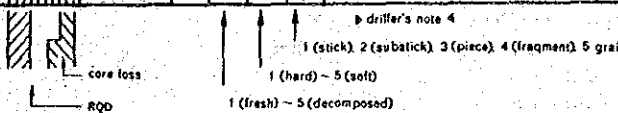
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. LS-9 (SHEET 3 OF 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 597.24 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $X = 470,170.81$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 $Y = 4520,637.32$ TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 90° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER		
40m			0-100								0	40m	
1	Db	+			dk gy	3	3	4	40.7	Sheared zone with clay	P=10		
2		+			dk gn gy	4	4	4	47.5	Some cracks brown			
3		+				2	2	4	43.55	Some cracks brown cracky	P=5		
4		+				(3)	2	4	44.5	Fragment core			
5	Gr	+			light gray	1-2	2	3	45.05	Brown cracks rare	P=2		
6		+				2		4	46.7	Most cracks coated by chlorite			
7		+			light gray	1	3	3		Fragment core rich or easy to break along cracks	P=10		
8		+				7		4					
9		+						4	49.7				
50	Db	+			dk gray	2	3	3		Some cracks brown Consolidated brecciated zone at	P=10		
1		+				1-2	3-4	4-5	50.45	49.05-49.30m			
2	Gr	+			light gray	1	2	2	51.4		P=10		
3		+				2	3	4	51.7	Fragmental core dominant			
4		+				2	1	5	53.15				
5		+						4		very cracky Sheared zone with cal-Oz veinlets			
6	Db	+			dark gray	1		4	55.35				
7		+				1	3	3		Brown cracks rare Hair cracks rich	P=10		
8		+				2		4					
9		+						7	59.4				
60		+				2		7					

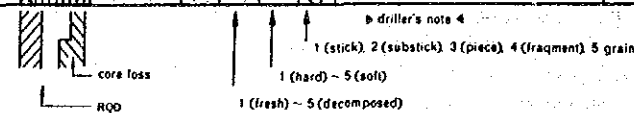


GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. LS-9 (SHEET 4 OF 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 597.74 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 470, 770.81 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4520, 437.33 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 90° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT, CASING	OBSERVATION OF CORE					DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	WATER PRESSURE TEST		LEAKAGE OF DRILLING WATER			
6.0m			0-100%									0	6.0m	4.3
1	Db	+			DR 27	1-2	2	2-3	60.5	Substick core dominant				
2		+							62.0					
3		+				1				Hair cracks rich and easy to break along them				
4	Gr	+				1	1	3						
5		+				2	1	1		Brown cracks rare				
6		+					2	2						
7									67.0					
8		+				1	1			Some cracks brown				
9	Db	+				2	2	3	68.75					
70		+					3	1		Sheared at 68.75 ~ 69.11m, 70.2 ~ 70.25m with clay				
1		+					3	3	70.5					
2		+				2	4-5	2	71.09	Fresh but fragmental				
3	Gf	+				1	1-2	2	71.8	core dominant				
4						1	2	4-5	72.26	No fault zone can be observed				
5		+				2	7-2	3	72.71					
6						2	4-5	2	72.96					
7						1-2	2-3	2	73.37					
8						2	4-5	2	73.74					
9	Db	+				7-2	1-2	2	74.24	Slime				
10		+				2	2	5	74.5	Fresh but somewhat cracky in general				
1		+				1	2	4						
2		+				1			76.5					
3		+				2	1							
4	Db	+				2	1	3						
5		+					2		78.3					
6		+				1	7-2	3	78.85					
7		+				1	2	4						
8	Db	+				2	2	5						
9	Gf	+				1	2	4						
10						2	2	5						



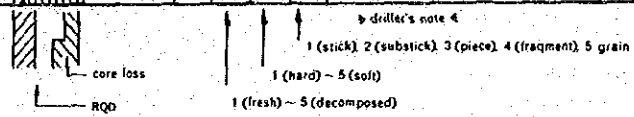
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. LS-9 (SHEET 5 OF 5)

LOCATION Left Bank DEPTH OF HOLE 100 m COMMENCED _____
 ELEVATION 497.24 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $X = 470,170.81$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 $Y = 4520,231.83$ TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 90 ° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE _____

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF CASING	COLOR	WEATHERING	HARDNESS	OBSERVATION OF CORE		WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
								DESCRIPTION	LUGEON					
0			0 → 100									0	0 m	
1		+						4	Fresh but somewhat cracky in general				1	
2								1					2	
3		+						3					3	
4								3	83.1 Brown cracks very rare				4	
5		+						1					5	
6								2	84.45 Some cracks coated by chlorite film				6	
7		+						4					7	
8								7					8	
9		+						3	87.4 Hair cracks somewhat rich in general				9	
10								1					10	
11		+						3					11	
12								1					12	
13		+						4	91.65				13	
14								1					14	
15		+						3	92.57				15	
16								3					16	
17		+						1					17	
18								2	93.82				18	
19		+						4					19	
20								1					20	
21		+						3	96.27				21	
22								3					22	
23		+						3	97.37				23	
24								4	98.0				24	
25		+						2	98.3				25	
26								4	98.67				26	
27		+						3	99.22				27	
28								2					28	
29													29	
30													30	



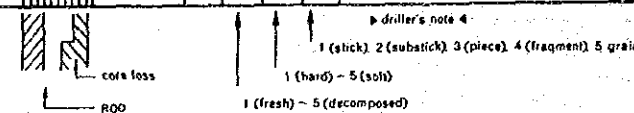
GEOLOGIC LOG OF DRILL HOLE

PROJECT

HOLE No. LSI-10 (SHEET / OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED _____
 ELEVATION 597.74 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $X = 470,770.81$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 $Y = 4170,431.63$ TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 32° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE N35°W

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	LUGEON		
0m			0 → 100%									0		
1	Sl	Δ							Slope wash					
2	Gr	+			17 gray	3	2	3	7.0 Most cracks brown					
3	Gr	+			17 gray	2	1	3	7.8 Hair cracks rich					
4	Db	+			17 gray	2	1	4	3.0 Hair cracks somewhat rich					
5	Gr	+			17 gray	2	1	3	3.65 Some cracks brown					
6	Db	+			light gray	2	2	3	5.3 Some cracks brown					
7	Gr	+			light gray	2	2	2	Some cracks coated by yel. green chlorite or cal-Oz					
8	Gr	+			light gray	2	2	2	7.8 veinlets					
9	Db	+			dark gray	2	1	1	Sheared zone with cal-Oz veinlets and some slickensides					
10	Db	+			dark gray	2	1	3	Cracky in general					
11	Gr	+			pink-wt	2	1	4	11.4					
12	Gr	+			pink-wt	2	1	3	12.52					
13	Gr	+			17 gray	2	1	3	Some cracks brown					
14	Gr	+			17 gray	2	1	3	14.8					
15	Db	+			gray	2	1	2						
16	Db	+			gray	2	1	2						
17	Gr	+			gray	2	1	2	17.4					
18	Gr	+			gray	2	1	2	17.85					
19	Gr	+			17 gray	3	3	1	Most cracks brown					
20	Gr	+			17 gray	3	3	4	Cracky in general					

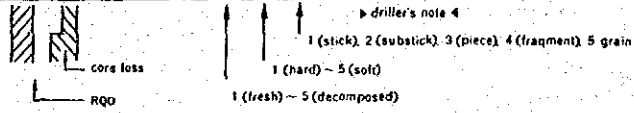


GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. LSI-10 (SHEET 2 OF 8)

LOCATION <u>Left Bank</u>	DEPTH OF HOLE <u>150</u> m	COMMENCED _____	
ELEVATION <u>597.24</u> m	DEPTH OF OVERBURDEN _____ m	COMPLETED _____	
COORDINATE $X = \underline{470,170.81}$ $Y = \underline{4520,631.53}$	LENGTH OF ROCK DRILLING _____ m	DRILLED BY _____	
ANGLE FROM HORIZONTAL <u>52°</u>	TOTAL LENGTH OF CORE _____ m	LOGGED BY _____	
BEARING OF ANGLE HOLE <u>N55°W</u>	CORE RECOVERY _____ %		

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF CASING	COLOR	WEATHERING	HARDNESS	CORE CUTTING	OBSERVATION OF CORE		WATER TABLE	WATER PRESSURE TEST	DEPTH	ELEVATION
									DESCRIPTION	LEAKAGE OF DRILLING WATER				
0m			0-100%										0m	597.24
1		+						3	Most cracks brown				1	
2		+						1 4	Brittle, easy to break along hair cracks				2	
3		+						225.3					3	
4		+						3 2 23.7	Hair cracks rich in general				4	
5		+						3-4 24.0					5	
6		+						3	Slickensides at 22.53 m, 25.2 m				6	
7		+						22.4					7	
8		+						3-4 25.8					8	
9		+						3 1 2 27.0					9	
10		+						3 1 4 28.1					10	
11		+						3-4 28.6					11	
12		+						3-4 28.8					12	
13		+						3-4 29.25					13	
14		+						3-4 29.45					14	
15		+											15	
16		+											16	
17		+											17	
18		+											18	
19		+											19	
20		+											20	
21		+											21	
22		+											22	
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35		+											35	
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38		+											38	
39		+											39	
40		+											40	



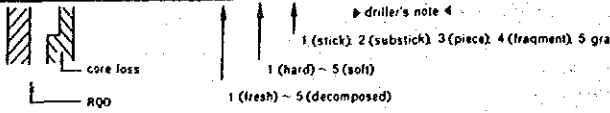
GEOLOGIC LOG OF DRILL HOLE

PROJECT

HOLE No. LSI-10 (SHEET 3 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED -
 ELEVATION 597.24 m DEPTH OF OVERBURDEN - m COMPLETED -
 COORDINATE $X = 470,770.81$
 $Y = 4520,651.53$ LENGTH OF ROCK DRILLING - m DRILLED BY -
 ANGLE FROM HORIZONTAL 52° TOTAL LENGTH OF CORE - m LOGGED BY -
 BEARING OF ANGLE HOLE N55°W CORE RECOVERY - %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	LUGEON		
4.0m			0-100									0	4.0m	43
1	Gr	+			light gray	3	3	41.05	Most cracks brown	P=10	Lu=30.2		1	
2	Gr	+			light gray	2	3	42.0	Some cracks brown	P=10	Lu=8.6		2	
3		+				3	3	42.25		P=10	Lu=13.5		3	
4		+			gray	2	1	44.2	Most cracks brown	P=10	Lu=5.4		4	
5	Db	+			(dark) gray	3	3			P=10	Lu=4.0		5	
6		+				1	1	46.0		P=10	Lu=9.5		6	
7		+				2	2	46.45		P=10	Lu=0.4		7	
8		+				1	1	47.8		P=10			8	
9		+				2	1		Some cracks brown	P=10			9	
50	Gd	+				3	3	51.3		P=10			50	
1		+			light gray	1	2		A few brown cracks	P=10			1	
2		+				1	1			P=10			2	
3		+				2	3	53.3		P=10			3	
4		+				2	2	53.5		P=10			4	
5		+				1	2			P=10			5	
6	Gr	+				1	1			P=10			6	
7		+				2	3			P=10			7	
8		+						58.0		P=10			8	
9	Db	+			dk gray	1	2			P=10			9	
60	Gr	+				1	1	59.5		P=10			60	
						1-2	1	2-3						



GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. LSI-10 (SHEET 4 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED _____

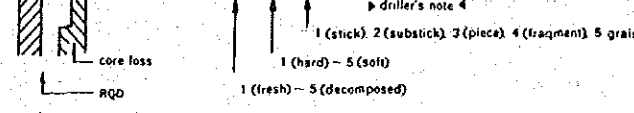
ELEVATION 597.24 m DEPTH OF OVERBURDEN _____ m COMPLETED _____

COORDINATE X = 470,170.85
Y = 4320,637.33 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____

ANGLE FROM HORIZONTAL 52° TOTAL LENGTH OF CORE _____ m LOGGED BY _____

BEARING OF ANGLE HOLE N55°W CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE				WATER TABLE	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING					
6.0m			0-100%								0	40.6m	
1	Gr	+			dk gray	1	2	3-4	60.4				
2	Db	+			dk gray	1	2						
3	Gr	+			dk gray	1	3						
4	Db	+			dk gray	1	3		63.05				
5	Gr	+			dk gray	1	3		64.3				
6	Db	+			dk gray	1	2						
7	Gr	+			dk gray	1	2		65.8				
8	Db	+			dk gray	1	2		66.2				
9	Gr	+			dk gray	1	2						
10	Db	+			dk gray	1	2						
11	Gr	+			dk gray	1	2						
12	Db	+			dk gray	1	2						
13	Gr	+			dk gray	1	2						
14	Db	+			dk gray	1	2						
15	Gr	+			dk gray	1	2						
16	Db	+			dk gray	1	2						
17	Gr	+			dk gray	1	2						
18	Db	+			dk gray	1	2						
19	Gr	+			dk gray	1	2						
20	Db	+			dk gray	1	2						
21	Gr	+			dk gray	1	2						
22	Db	+			dk gray	1	2						
23	Gr	+			dk gray	1	2						
24	Db	+			dk gray	1	2						
25	Gr	+			dk gray	1	2						
26	Db	+			dk gray	1	2						
27	Gr	+			dk gray	1	2						
28	Db	+			dk gray	1	2						
29	Gr	+			dk gray	1	2						
30	Db	+			dk gray	1	2						



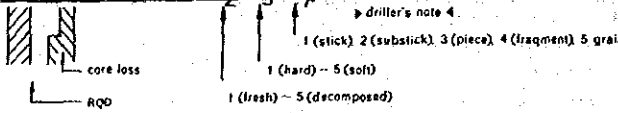
GEOLOGIC LOG OF DRILL HOLE

PROJECT

HOLE No. LSJ-10 (SHEET 5 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED ---
 ELEVATION 597.24 m DEPTH OF OVERBURDEN --- m COMPLETED ---
 COORDINATE X = 470,170.81 LENGTH OF ROCK DRILLING --- m DRILLED BY ---
Y = 6320,687.69 TOTAL LENGTH OF CORE --- m LOGGED BY ---
 ANGLE FROM HORIZONTAL 52° CORE RECOVERY --- %
 BEARING OF ANGLE HOLE N35°W

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTA- TIONS KIND OF BIT CASING	OBSERVATION OF CORE			DESCRIPTION	WATER TABLE		DEPTH	ELEVATION	
					COLOR	WEATHER- ING	HARD- NESS		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER			
0			0 → 100								0	80m	
1	Gr	+			white	1	2	3	Some hair cracks			1	
2	Gd	#			light gray	1	2-3	3	82.5			2	
3	Db	+			dk gray	1	1	3	82.8			3	
4	Gd	#			lt gray	1	1	3	82.85			4	
5	Db	+			dark gray			2	Some granitic veins			5	
6	Gr	+			dark gray	1	1	2				6	
7	Db	+			dark gray			3				7	
8		+							87.5			8	
9		+							Some hair cracks			9	
10	Gr	+			light gray		1	3				10	
11		+			light gray	1	1	1				11	
12		+			light gray			2				12	
13		+			light gray			2				13	
14		+			light gray			2	94.0			14	
15		+			light gray	1	1	3	95.3			15	
16	Db	+			light gray	1	2-3	3	95.7			16	
17		+			light gray	3	4	4	96.0 Cal-Qz veinlets			17	
18	Gr	+			dark gray ~ lt gray	1	1	2				18	
19	Db	+			dark gray	1	1	1	98.25			19	
20		+			dark gray	1	1	1	99.9-100.1m: Some cracks bt. own. somewhat sheared with slickensides			20	
100		+			dark gray	2	1	3	99.9			100	

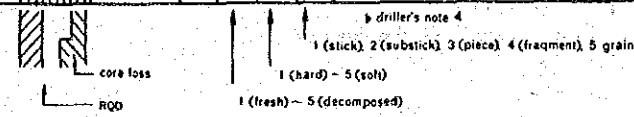


GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. LSI-10 (SHEET 6 OF 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED _____
 ELEVATION 597.24 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE X = 450.130.81 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
Y = 4520.131.33 TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 ANGLE FROM HORIZONTAL 32° CORE RECOVERY _____ %
 BEARING OF ANGLE HOLE N55°W

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					DESCRIPTION	WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	WATER PRESSURE TEST		LEAKAGE OF DRILLING WATER	LUGEON			
10.0m			0-100%										0	40/100m	4.3
1	Db				dk gy	1-2	1	2-3	100.1						
2					gy	1		2	100.5						
3	Gr				lt gy	1	1	1		Fresh in general					
4					gy	2		1	102.9						
5	Db				wt	2	3	4	103.4						
6					dark gray	1		1							
7	Gr				light gray	1	1	1							
8					dk gy	1	1	3	107.0						
9					gray	1		2							
10	Db				gray	2		3							
11					dk gy > lt gy	1	1	3	108.1	Some hair cracks					
12					dk gy	2	2								
13					dark gray	1		2	113.7	A few brown cracks					
14					light gray	1	1	1							
15	Gr				light gray	1	1	1							
16					light gray	2	2	2	116.4						
17					light gray	1	1	3							
18					light gray	1	1	1							
19					light gray	2	2	2							
20					light gray	2	2	2	118.7						



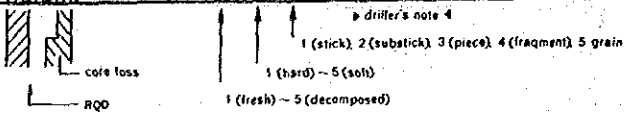
GEOLOGIC LOG OF DRILL HOLE

PROJECT _____

HOLE No. LSJ-10 (SHEET 7 OF 8)

LOCATION <u>Left Bank</u>	DEPTH OF HOLE <u>150</u> m	COMMENCED _____
ELEVATION <u>597.24</u> m	DEPTH OF OVERBURDEN _____ m	COMPLETED _____
COORDINATE $X = 470,170.83$ $Y = 4529,431.53$	LENGTH OF ROCK DRILLING _____ m	DRILLED BY _____
ANGLE FROM HORIZONTAL <u>52°</u>	TOTAL LENGTH OF CORE _____ m	LOGGED BY _____
BEARING OF ANGLE HOLE <u>N55°W</u>	CORE RECOVERY _____ %	

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER		
120m			0-100%									40/20m	3
1	Gd	+			light gray	1	4	121.4	Hair cracks somewhat rich				1
2		+				2	1						2
3		+				2	3						3
4	Gr	+			light gray	3	4	122.15	Sheared with hematite veinlets and col. Oz veinlets				4
5		+				1	3		slickenside at 122.75m (cl = 0.5cm)				5
6	Db	+			dark gray	1	2		No brown cracks				6
7		+				1	1						7
8		+				1	3						8
9	Gr	+			gray	1		129.05					9
10		+				1	3		Cracky				10
11		+			light gray	1	1						11
12		+				2	4						12
13		+						132.3					13
14	Db	+			dark gray	1	2	133.5					14
15		+				1	3		Cracky				15
16		+				1	1						16
17		+				2	4	135.0					17
18	Gr	+			wt	1	2	136.0					18
19		+				1	1						19
20		+				2	3	136.0					20
21		+				1	1						21
22	Db	+			dark gray	1	2						22
23		+				1	1						23
24		+				1	2	138.0					24
25		+				1	3		Cracky				25
26		+				1	1						26
27		+				2	4						27
28		+				1	1						28
29		+				1	3						29
30		+				2	4						30



GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. LSI-10 (SHEET 8 of 8)

LOCATION Left Bank DEPTH OF HOLE 150 m COMMENCED _____
 ELEVATION 597.24 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $\phi = 470.770.83$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 ANGLE FROM HORIZONTAL 32° TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 BEARING OF ANGLE HOLE N55°W CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION	WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER	DEPTH		
0			0 → 100									0	40/40m	597.24
1							1	3						
2							2	4	141.0					
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
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48														
49														
50														
51														
52														
53														
54														
55														
56														
57														
58														
59														
60														

141.0
 Slickenside at 142.3m
 143.77
 Long sticks core
 Massive
 Hair crack
 very poor
 150.0

Db

gray

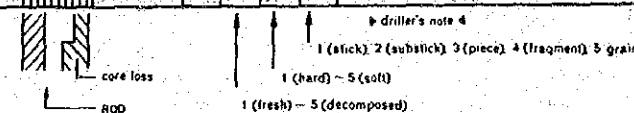
dark

P = 10

L₀ = 1.1

P = 10

L₀ = 0.1



GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. RSI-11A (SHEET 1 OF 3)

LOCATION Right Bank DEPTH OF HOLE 20.75 m COMMENCED _____

ELEVATION 534.09 m DEPTH OF OVERBURDEN _____ m COMPLETED _____

COORDINATE $X = 470,284.78$
 $Y = 4320,404.35$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____

ANGLE FROM HORIZONTAL 45° TOTAL LENGTH OF CORE _____ m LOGGED BY _____

BEARING OF ANGLE HOLE N42°W CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT CASING	OBSERVATION OF CORE					DESCRIPTION	WATER TABLE		DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	WATER PRESSURE TEST		LEAKAGE OF DRILLING WATER			
0			0 = 100%									0	0m	
1						3	4	4		Many small slickensides			1	
2								2		A few cracks brown			2	
3								1					3	
4								3		Some hair cracks			4	
5								4.3					5	
6	Db				dark gray	1	1	3-4	4.75	Some cal-Oz veinlets			6	
7						1	1						7	
8						2	2						8	
9								1					9	
10								3					10	
11	Gr					1-2	1-2	3	11.35				11	
12								1					12	
13						1	1	3	12.55				13	
14						2	2		13.3				14	
15	Db				gray	2	2	3	13.9	Some hair cracks			15	
16						1	1						16	
17						2	2	3	15.0				17	
18					dark gray								18	
19						2	2		15.85	Hair cracks rich			19	
20						2	2	3	16.35				20	
21						1	1						21	
22						2	2		17.6	Do			22	
23	Gr				gray	1	1	3	18.3	Do			23	
24						2	2	4	18.7				24	
25						1-2	1-2						25	
26	Gd				gray	1	1	3					26	
27						2	2						27	

driller's note

1 (stick) 2 (substick) 3 (piece) 4 (fragment) 5 grain

1 (hard) - 5 (soft)

1 (fresh) - 5 (decomposed)

core loss

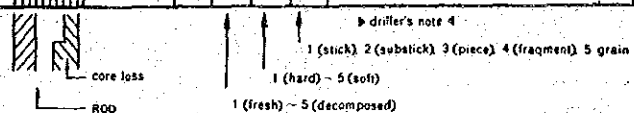
req

GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. RSJ-11/A (SHEET 2 OF 3)

LOCATION Right Bank DEPTH OF HOLE 40.75 m COMMENCED _____
 ELEVATION 534.07 m DEPTH OF OVERBURDEN _____ m COMPLETED _____
 COORDINATE $X = \frac{270,284.78}{Y = 4570,404.85}$ LENGTH OF ROCK DRILLING _____ m DRILLED BY _____
 ANGLE FROM HORIZONTAL 45 ° TOTAL LENGTH OF CORE _____ m LOGGED BY _____
 BEARING OF ANGLE HOLE N42W CORE RECOVERY _____ %

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF BIT Casing	OBSERVATION OF CORE				DESCRIPTION	WATER TABLE			DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING		WATER PRESSURE TEST	LEAKAGE OF DRILLING WATER			
0			0-100									0		
1	Gd	+			Z	1-2	3	20.3		P=0	Q=518Z	T=50	51.70 m/min	
2	Gd	+			Z			22.0	Brown cracks rare	P=0	Q=517Z	T=50	51.70 m/min	
3		+			Z	3-4		22.3		P=0	Q=517Z	T=50	51.70 m/min	
4	Db	+			Z			24.3		P=10	Q=517Z	T=50	51.70 m/min	
5		+			Z			25.3		P=10	Q=517Z	T=50	51.70 m/min	
6		+			Z			27.0	Some cracks coated by yellowish green chlorite film	P=10	Q=517Z	T=50	51.70 m/min	
7		+			Z			28.5		P=10	Q=517Z	T=50	51.70 m/min	
8	Gr	+			Z			29.25		P=10	Q=517Z	T=50	51.70 m/min	
9		+			Z			31.75		P=10	Q=517Z	T=50	51.70 m/min	
10		+			Z			31.75		P=10	Q=517Z	T=50	51.70 m/min	
11		+			Z			31.75		P=10	Q=517Z	T=50	51.70 m/min	
12		+			Z			31.75	some cracks brown	P=10	Q=517Z	T=50	51.70 m/min	
13	Db	+			Z	1	3		Cracky in general	P=10	Q=517Z	T=50	51.70 m/min	
14		+			Z	1	1			P=0	Q=5875	T=50	58.80 m/min	
15		+			Z		4			P=0	Q=5875	T=50	58.80 m/min	
16		+			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
17		+			Z			36.0	rock fragment and gravel gained	P=0	Q=5875	T=50	58.80 m/min	
18	Sl	Δ			Z			36.0	Most of fragments are dark gray diabase (slope wash)	P=0	Q=5875	T=50	58.80 m/min	
19		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
20		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
21		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
22		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
23		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
24		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
25		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
26		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
27		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
28		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
29		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
30		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
31		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
32		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
33		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
34		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
35		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
36		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
37		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
38		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
39		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	
40		Δ			Z			36.0		P=0	Q=5875	T=50	58.80 m/min	



GEOLOGIC LOG OF DRILL HOLE

PROJECT _____ HOLE No. RSI-11/A (SHEET 3 OF 3)

LOCATION Right Bank DEPTH OF HOLE 40.75 m COMMENCED _____

ELEVATION 534.09 m DEPTH OF OVERBURDEN _____ m COMPLETED _____

COORDINATE X = 470,284.98 LENGTH OF ROCK DRILLING _____ m DRILLED BY _____

Y = 4520,302.85 TOTAL LENGTH OF CORE _____ m LOGGED BY _____

ANGLE FROM HORIZONTAL 45° CORE RECOVERY _____ %

BEARING OF ANGLE HOLE N42°W

DEPTH	ROCK NAME	LOG	CORE RECOVERY	CEMENTATION KIND OF CASING	OBSERVATION OF CORE					WATER TABLE WATER PRESSURE TEST LEAKAGE OF DRILLING WATER	DEPTH	ELEVATION
					COLOR	WEATHERING	HARDNESS	CORE CUTTING	DESCRIPTION			
4.0m			0 → 100							LUGEON	40.40m	534
									DO 40.75			
1											1	
2											2	
3											3	
4											4	
5											5	
6											6	
7											7	
8											8	
9											9	
0											0	
1											1	
2											2	
3											3	
4											4	
5											5	
6											6	
7											7	
8											8	
9											9	
0											0	

