

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION		HOLE NO.: B-4A SHEET 1 OF 1 DATE STARTED: 5/7/02 DATE COMPLETED: 5/10/02							
PROJECT NAME: BETHEL SITE NAME: BR 31 STATION: 3+173.00 GROUND EL.: 170.448		PROJECT NUMBER: BRF 0241(33) C/1 SITE NO.: VT 12 OFFSET: 7.35 G.W. DEPTH: 1.80 05/10/02							
BORING CREW CREW CHIEF: TALLMAN DRILLER: TALLMAN LOGGER: RUSSELL ADDITIONAL CREW:		BORING RIG: SMALL SKID RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL							
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-4, GrSiSa & Wood, brn, Moist Rec. = 0.05m	3	42.5	20.9	40.5	38.6		
		Info Wood at 2.10m							
		No sample, Wood sections							
		Top of bedrock @ 3.96 m							
		Run#1: BXMDC, 3.96m-5.48m, Rec. = 1.52m, See Geologist's Report.	RUN	REC%	RODZ	Dip°			
			1	100	75	40			
		Run#2: BXMDC, 5.48m-7.00m, Rec. = 1.52m, See Geologist's Report.							
			2	100	90	40			
		Hole stopped @ 7.0m							
Driller's Notes:									
1. Drillers had a difficult time drilling through three sections of wood timber. Each timber was about six inches thick.									
2. Ground water elevation was 1.80m on 05/10/02.									
GEOLOGISTS REPORT:									
Run#1: 3.96m-5.00m, Gray garnetiferous hornblende gneiss with greenstone, Highly deformed foliation, Moderately hard, Unweathered, Competent.									
5.00m-5.45m, Light gray hornblende gneiss, Hard to very hard, Unweathered, Competent.									
5.45m-5.48m, Same as beginning of Run#1.									
Run#2: 5.48m-6.03m, Gray garnetiferous hornblende gneiss with greenstone and quartz veins, Highly deformed foliation, Moderately hard, Unweathered, Competent.									
6.03m-7.00m, Light gray hornblende gneiss, Hard to very hard, Unweathered, Competent.									

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION		HOLE NO.: B-5 SHEET 1 OF 1 DATE STARTED: 5/29/02 DATE COMPLETED: 5/29/02							
PROJECT NAME: BETHEL SITE NAME: BR 31 STATION: 3+115.00 GROUND EL.: 176.598		PROJECT NUMBER: BRF 0241(33) C/1 SITE NO.: VT 12 OFFSET: -15.00 G.W. DEPTH: Hole caved in							
BORING CREW CREW CHIEF: TALLMAN DRILLER: TALLMAN LOGGER: RUSSELL ADDITIONAL CREW:		BORING RIG: LARGE SKID RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL							
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-1-b, Sa, gry, Moist, Rec. = 0.15m	4	16.8	15.2	73.5	11.3		
		A-4, SaSi, brn, Moist, Rec. = 0.40m	6	22.5	0.5	37.7	61.8		
		A-4, SaSi, gry, Moist, Rec. = 0.32m	43	15.4	9.3	44.6	46.1		
		5.48m-5.79, Boulder							
		A-4, SiSa with rock fragments, gry, Moist, Rec. = 0.35m	61	14.6	10.1	51	38.9		
		Top of bedrock @ 6.75 m							
		Run#1: BXMDC, 6.75m-8.27m, Rec. = 1.50m, See Geologist's Report.	RUN	REC%	RODZ	Dip°			
			1	99	50	50			
		Run#2: BXMDC, 8.27m-9.79m, Rec. = 1.52m, See Geologist's Report.							
			2	100	94	50			
		Hole stopped @ 9.79m							
Driller's Notes:									
1. No ground water elevation found. Hole caved in.									
GEOLOGISTS REPORT:									
Run#1: Gray hornblende gneiss with quartz veins, Hard to very hard, Unweathered, Competent.									
Run#2: Gray hornblende gneiss with quartz veins, Bottom 0.4m of Run is quartz, Hard to very hard, Unweathered, Competent.									

TOP OF PIER FTG. ELV. = 171.000

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION		HOLE NO.: B-6 SHEET 1 OF 1 DATE STARTED: 5/16/02 DATE COMPLETED: 5/16/02							
PROJECT NAME: BETHEL SITE NAME: BR 31 STATION: 3+126.00 GROUND EL.: 174.961		PROJECT NUMBER: BRF 0241(33) C/1 SITE NO.: VT 12 OFFSET: -15.00 G.W. DEPTH: No water found (05/16/02)							
BORING CREW CREW CHIEF: TALLMAN DRILLER: TALLMAN LOGGER: RUSSELL ADDITIONAL CREW:		BORING RIG: LARGE SKID RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL							
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		No sample. Possible GrSa.	2						
		A-2-4, GrSiSa, gry, Moist, Rec. = 0.15m	3	17	21.6	52	26.4		
		BXMDC, 4.06m-4.60m, Broke through Boulder.							
		Top of bedrock @ 4.87 m							
		Run#1: BXMDC, 4.87m-6.39m, Rec. = 1.46m, See Geologist's Report.	RUN	REC%	RODZ	Dip°			
			1	96	80	50			
		Run#2: BXMDC, 6.39m-7.91m, Rec. = 1.06m, Lost part of core and could not retrieve it. See Geologist's Report.							
			2	70	54	50			
		Hole stopped @ 7.91m							
Driller's Notes:									
1. No ground water elevation found 05/16/02.									
2. Could not retrieve part of Run#2's rock core.									
GEOLOGISTS REPORT:									
Run#1: Gray hornblende gneiss, Hard to very hard, Unweathered, Competent.									
Run#2: Gray hornblende gneiss, Hard to very hard, Unweathered, Competent.									

TOP OF ABUT. #2 FTG. ELV. = 169.750

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION		HOLE NO.: B-7 SHEET 1 OF 1 DATE STARTED: 5/1/02 DATE COMPLETED: 5/1/02							
PROJECT NAME: BETHEL SITE NAME: BR 31 STATION: 3+171.00 GROUND EL.: 173.576		PROJECT NUMBER: BRF 0241(33) C/1 SITE NO.: VT 12 OFFSET: -16.00 G.W. DEPTH:							
BORING CREW CREW CHIEF: TALLMAN DRILLER: TALLMAN LOGGER: RUSSELL ADDITIONAL CREW:		BORING RIG: LARGE SKID RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL							
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		No Rec., Piece of granite in the end of the barrel.							
		A-1-b, GrSe, brn, Moist, Rec. = 0.03m	5	15.8	45.7	48.7	5.6		
		A-2-4, SiSaGr, gry, Moist, Rec. = 0.32m	21	14.7	39.2	33.7	27.1		
		Top of bedrock @ 5.18 m							
		Run#1: BXMDC, 5.18m-6.70m, Rec. = 1.23m, See Geologist's Report.	RUN	REC%	RODZ	Dip°			
			1	81	70	40			
		Run#2: BXMDC, 6.70m-8.22m, Rec. = 1.52m, See Geologist's Report.							
			2	100	50	40			
		Hole stopped @ 8.22m							
Driller's Notes:									
1. Moved station three feet toward town.									
GEOLOGISTS REPORT:									
Run#1: Light gray biotite gneiss, Hard to very hard, Unweathered, Competent.									
Run#2: Light gray biotite gneiss, Hard to very hard, Unweathered, Competent.									

PROJECT:	BETHEL	PROJECT NO.:	BRF 0241 (33) C/2
DESIGN FILE NAME:	02c180/Structures/s02c180bor.dgn	PLOT DATE:	15-APR-2005
IPARM FILE NAME:	sc180bor3.i	SURVEY DATE:	10/99
SURVEYED BY:	ORVIS	DRAWN BY:	J. TOUCHETTE
SQUAD LEADER:	C. C. BENDA	DATE:	06/02 BORING LOGS
		SHEET:	27 OF 130

