

PROJECT NO. 8.2561301		ID. B-3875		COUNTY Moore		GEOLOGIST J. Bryson												
SITE DESCRIPTION Bridge 78 over Old Ford Creek on SR 1456 (Mactec Project No. 30725-2-5443)						GROUND WATER (ft)												
BORING NO. B1-A		BORING LOCATION 17+30		OFFSET 12ft LT		ALIGNMENT -L-												
COLLAR ELEV. 357.0 ft		NORTHING 632,790		EASTING 1,821,842		0 HR. 2.0												
TOTAL DEPTH 30.8 ft		DRILL MACHINE CME-550, ATV		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 140 lb Manual												
DATE STARTED 1/9/03		COMPLETED 1/10/03		SURFACE WATER DEPTH N/A														
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	LOG	SOIL AND ROCK DESCRIPTION					
		0.5ft	0.5ft	0.5ft	0	20	40	60	80					100				
357.0	0.0	3	3	3	Ground Surface								357.0	0.0				
354.2	2.8	4	3	5									355.0	2.0	Alluvium: Brown and red-orange, sandy, clayey SILT (A-4) with rock fragments			
352.4	4.6	80	20/0.0ft							SS-1 SS-2	18.3%		353.8	3.2	Alluvium: Brown, coarse SAND and GRAVEL (A-1-a)			
													352.6	4.4	Alluvium: Gray, fine sandy CLAY (A-6)			
													351.9	5.1	Weathered Rock: Green META-VOLCANIC			
													350.3	6.7	Crystalline Rock: Green and white, moderately weathered, closely fractured, moderately hard META-VOLCANIC; 3 joints at 60-70° with Fe stain, and 1 joint at 85° with Fe stain			
																Crystalline Rock: Green, slightly to very slightly weathered, very closely to moderately closely fractured, hard META-VOLCANIC; 3 joints at 10-20°, 8 joints at 20-40°, 15 joints at 60-70° (5 with clay, 5 with Fe stain), and 16 joints at 70-90° (1 with clay, 1 with Fe stain)		
																326.2	30.8	Boring and Coring Terminated at 30.8 ft (Elev. 326.2 ft) in Crystalline Rock: Hard META-VOLCANIC
													Bits Used: 4in roller cone, HWD4 core bit, NQ core bit					
													Drilling Fluid: Water					

NCDOT BO...ANGLE OFC.GPI NC\_DOT.GDT 4/1/03

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BORING NO. B1-A		BORING LOCATION 17+30		OFFSET 12ft LT		ALIGNMENT -L-					
COLLAR ELEV. 357.0 ft		NORTHING 632,790		EASTING 1,821,842		0 HR. 2.0					
TOTAL DEPTH 30.8 ft		DRILL MACHINE CME-550, ATV		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 140 lb Manual					
DATE STARTED 1/9/03		COMPLETED 1/10/03		SURFACE WATER DEPTH N/A							
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS	
				REC. (ft) %	RQD (ft) %		REC. (ft) %	RQD (ft) %			
											Begin Coring @ 5.1 ft
351.9	5.1	5.0	2:38	(5.0)	(2.7)		(1.6)	(0.5)			Crystalline Rock: Green and white, moderately weathered, closely fractured, moderately hard META-VOLCANIC; 3 joints at 60-70° with Fe stain, and 1 joint at 85° with Fe stain
			2:56	100%	54%		100%	31%			
			3:02				(24.1)	(16.7)			
			3:54				100%	69%			
346.9	10.1	5.0	2:03	(5.0)	(2.1)						Crystalline Rock: Green, slightly to very slightly weathered, very closely to moderately closely fractured, hard META-VOLCANIC; 3 joints at 10-20°, 8 joints at 20-40°, 15 joints at 60-70° (5 with clay, 5 with Fe stain), and 16 joints at 70-90° (1 with clay, 1 with Fe stain)
			3:21	100%	42%						
			3:44								
			4:10								
			4:31								
341.9	15.1	5.0	4:47	(5.0)	(4.2)						
			3:33	100%	84%						
			3:04								
			3:07								
			2:51								
336.9	20.1	5.0	3:01	(5.0)	(2.9)						
			2:52	100%	58%						
			2:43								
			3:18								
331.9	25.1	0.7	3:42	(0.7)	(0.5)						
331.2	25.8	0.7	3:10	100%	71%						
		5.0	6:21/0.7	(5.0)	(4.8)						
			6:01	100%	96%						
			5:43								
			5:43								
			5:10								
			5:02								
326.2	30.8										Coring Terminated at 30.8 ft (Elev. 326.2 ft) in Crystalline Rock: Hard META-VOLCANIC

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