



MACTEC

N.C.D.O.T. GEOTECHNICAL UNIT BORING LOG

SHEET 1 OF 1

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-B		BORING LOCATION 17+30		OFFSET 12ft RT	ALIGNMENT -L-		0 HR. 2.0						
COLLAR ELEV. 356.8 ft		NORTHING 632,779		EASTING 1,821,863			24 HR. 3.2						
TOTAL DEPTH 25.6 ft		DRILL MACHINE CME-550, ATV		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 140 lb Manual							
DATE STARTED 1/8/03		COMPLETED 1/8/03		SURFACE WATER DEPTH N/A									
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100
356.8													Ground Surface
356.8	0.0	2	2	3									Alluvium: Brown, clayey SILT (A-4) with few roots
353.2	3.6	64	36/0.1ft										Alluvium: Gray, fine sandy CLAY (A-6)
													Weathered Rock: Green META-VOLCANIC
													Crystalline Rock: Green, moderately to slightly weathered, very closely to closely fractured, moderately hard to hard META-VOLCANIC; 3 joints at 0-10°, 6 joints at 50-70° (2 with Fe stain), and 1 joint at 85° with Fe stain
													Crystalline Rock: Green, slightly to very slightly weathered, closely to moderately closely fractured, hard META-VOLCANIC; 8 joints at 0-20° (1 with quartz), 6 joints at 25-50° (2 with clay), 14 joints at 50-70° (2 with quartz), and 10 joints at 70-90°
													Boring and Coring Terminated at 25.6 ft (Elev. 331.2 ft) in Crystalline Rock: Hard META-VOLCANIC
													Bits Used: 4in roller cone, HWD4 core bit
													Drilling Fluid: Water

NCDOT BORING SINGLE OFC.GPJ NC_DOT.GDT 4/1/03



MACTEC

N.C.D.O.T. GEOTECHNICAL UNIT CORE BORING REPORT

SHEET 1 OF 1

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-B		BORING LOCATION 17+30		OFFSET 12ft RT	ALIGNMENT -L-		0 HR. 2.0			
COLLAR ELEV. 356.8 ft		NORTHING 632,779		EASTING 1,821,863			24 HR. 3.2			
TOTAL DEPTH 25.6 ft		DRILL MACHINE CME-550, ATV		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 140 lb Manual				
DATE STARTED 1/8/03		COMPLETED 1/8/03		SURFACE WATER DEPTH N/A						
CORE SIZE HWD4		TOTAL RUN 21.4 ft		DRILLER D. Rhodes						
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (ft) %	ROD (ft) %		REC. (ft) %	ROD (ft) %		
										Begin Coring @ 4.2 ft
352.6	4.2	1.4	3:39	(1.0)	(0.0)		(0.0)	(N/A)		Weathered Rock: META-VOLCANIC
351.2	5.6	5.0	1:15/0.4	71%	0%		(2.1)	0%		Crystalline Rock: Green, moderately to slightly weathered, very closely to closely fractured, moderately hard to hard META-VOLCANIC; 3 joints at 0-10°, 6 joints at 50-70° (2 with Fe stain), and 1 joint at 85° with Fe stain
			2:18	(5.0)	(3.3)		100%	(16.0)		Crystalline Rock: Green, slightly to very slightly weathered, closely to moderately closely fractured, hard META-VOLCANIC; 8 joints at 0-20° (1 with quartz), 6 joints at 25-50° (2 with clay), 14 joints at 50-70° (2 with quartz), and 10 joints at 70-90°
			2:44	100%	66%		100%	85%		
346.2	10.6		2:27							
			2:56	(5.0)	(4.3)					
			1:53	100%	86%					
			2:32							
341.2	15.6		2:37							
			4:43	(5.0)	(4.7)					
			3:35	100%	94%					
			2:28							
336.2	20.6		2:50							
			2:58	(5.0)	(3.7)					
			2:55	100%	74%					
			4:00							
			3:12							
331.2	25.6		3:26							Coring Terminated at 25.6 ft (Elev. 331.2 ft) in Crystalline Rock: Hard META-VOLCANIC
			4:05							
			3:55							

NCDOT CORE SINGLE OFC.GPJ NC_DOT.GDT 4/1/03