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. B2-B	**BORING LOCATION** 17+88	**OFFSET** 12ft RT	**ALIGNMENT** -L-	**0 HR.** 4.0
COLLAR ELEV. 358.1 ft	**NORTHING** 632,831	**EASTING** 1,821,890	**24 HR.** 4.0
TOTAL DEPTH 24.7 ft	**DRILL MACHINE** CME-550, ATV	**DRILL METHOD** Rotary Wash/Core	**HAMMER TYPE** 140 lb Manual
DATE STARTED 1/7/03	**COMPLETED** 1/8/03	**SURFACE WATER DEPTH** N/A	

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
358.1					Ground Surface				358.1 / 0.0
358.1	0.0	2	2	2	4		M		Alluvium: Orange-brown clayey SILT (A-4)
355.0	3.1	100/0.1ft			100/0.1ft	RS-2			355.5 / 2.6 — Crystalline Rock: Green, slightly to very slightly weathered, closely to moderately closely fractured, hard META-VOLCANIC; 4 joints at 0-10°, 23 joints at 20-40° (2 with quartz, 5 with clay), 3 joints at 60-70°, 9 joints at 70-90° (1 with quartz, 1 with Fe stain) RS-2 sampled at 4.0 to 4.4 ft 20 gallons of water lost from 16.4 to 17.0 ft
									333.4 / 24.7 — Boring and Coring Terminated at 24.7 ft (Elev. 333.4 ft) in Crystalline Rock: Hard META-VOLCANIC

Bits Used: 4in roller cone, HWD4 core bit

Drilling Fluid: Water

NCDOT BOR_GLE_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. B2-B	**BORING LOCATION** 17+88	**OFFSET** 12ft RT	**ALIGNMENT** -L-	**0 HR.** 4.0
COLLAR ELEV. 358.1 ft	**NORTHING** 632,831	**EASTING** 1,821,890	**24 HR.** 4.0
TOTAL DEPTH 24.7 ft	**DRILL MACHINE** CME-550, ATV	**DRILL METHOD** Rotary Wash/Core	**HAMMER TYPE** 140 lb Manual
DATE STARTED 1/7/03	**COMPLETED** 1/8/03	**SURFACE WATER DEPTH** N/A	
CORE SIZE HWD4	**TOTAL RUN** 21.5 ft	**DRILLER** D. Rhodes	

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC. (ft) %	RUN RQD (ft) %	SAMP. NO.	STRATA REC. (ft) %	STRATA RQD (ft) %	LOG	DESCRIPTION AND REMARKS
										Begin Coring @ 3.2 ft
354.9	3.2	1.5	3:43	(1.5) 100%	(1.0) 67%	RS-2	(21.5) 97%	(16.8) 76%		Crystalline Rock: Green, slightly to very slightly weathered, closely to moderately closely fractured, hard META-VOLCANIC; 4 joints at 0-10°, 23 joints at 20-40° (2 with quartz, 5 with clay), 3 joints at 60-70°, 9 joints at 70-90° (1 with quartz, 1 with Fe stain)
353.4	4.7	5.0	2:42/0.5 4:28 2:29 2:32 2:48	(5.0) 100%	(3.3) 66%					
348.4	9.7	5.0	3:13 3:09 2:48 3:04 3:30	(5.0) 100%	(4.6) 92%					RS-2 sampled at 4.0 to 4.4 ft
343.4	14.7	5.0	3:20 5:05 3:06 3:59 4:20	(5.0) 100%	(3.8) 76%					20 gallons of water lost from 16.4 to 17.0 ft
338.4	19.7	5.0	4:07 4:28 4:57 3:57 5:43 4:19	(5.0) 100%	(4.1) 82%					
333.4	24.7									333.4 / 24.7 — Coring Terminated at 24.7 ft (Elev. 333.4 ft) in Crystalline Rock: Hard META-VOLCANIC

NCDOT CORE SINGLE_OFC.GPJ NC_DOT.GDT 4/1/03