



PROJECT NO. 8.2001201 ID. B-3914 COUNTY Transylvania ENG/GEO Johnson
 SITE DESCRIPTION Bridge 116 Over Grady Fork Creek On S.R. 1105
 BORING NO. EB2-B BORING LOCATION (STA.) 14+82 OFFSET 15' Rt. ALIGNMENT -L-
 COLLAR ELEV. 2305.3 NORTHING 518,407.9 EASTING 874,784.5 GROUND WATER
 TOTAL DEPTH 15.1 DRILL MACHINE CME-45C DRILL METHOD HSA/NXWL 0 HR. 3.5
 DATE STARTED 5/7/03 DATE COMPLETED 5/7/03 HAMMER TYPE NA 24 HR. 3.0

ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	L O G	W n / GW	SOIL AND ROCK DESCRIPTION
		0.5 ft	0.5 ft	0.5 ft	0	20	40	60	80				
2305.3													
2305													
	5.1												Black, Gray, White, Severely Weathered Rock (Gneiss). Auger Refusal @ 1.2' (Elev. 2304.1') on Hard Rock (Gneiss), Begin Core in Black, Gray, White, Fresh Henderson Gneiss, Very Hard, Very Close to Moderately Close Fracture Spacing.
	10.1												Black, Gray, White, Moderately Weathered to Fresh Henderson Gneiss, Moderately Hard to Very Hard, Very Close to Close Fracture Spacing.
	15.1												Black, Gray, White, Very Slightly Weathered to Fresh Henderson Gneiss, Moderately Hard to Very Hard, Very Close to Moderately Close Fracture Spacing. Boring Terminated @ 15.1' (Elev. 2290.2') in Hard Rock (Gneiss). Water from Glady Fork Creek used as drilling fluid.
2290.2													

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 GEOTECHNICAL UNIT CORE BORING REPORT

Project No.: 8.2001201 I.D. No.: B-3914 Boring No.: EB2-B
 Site: Bridge 116 over Glady Fork Creek on SR1105 County: Transylvania
 Collar Elev.: 2305.3' Core Size: NX Equipment: CME-45C
 Driller: R. GRADY Geologist: Johnson Personnel: M. BROWN
 Total Depth: 15.1 ft Total Run: 13.9ft Date: 07MAY03

Elev. (ft.)	Depth (ft.)	Drill Rate (min/ft)	Run	REC %	RQD %	SAMP No.	FIELD CLASSIFICATION AND REMARKS		
2304.1	1.2	0:36					Blk, gry, wht, fresh Henderson gneiss. V. hard, v. close to mod. Close frac. Spacing, core lose near end of run with augens. 1.2' to 5.1' - 2 joints @ 20°-30°, 2+ joints @ 0°-5°		
		1:24	3.9	(2.0') 51	(1.4') 36				
		1:38							
		1:10/0.9							
2300.2	5.1								
2300.2	5.1	0:43					Blk, gry, wht, mod. Weathered to fresh Henderson gneiss. Mod. Hard to v. hard. V. close to close frac. spacing. Some Fe-staining. Oxidized pyrite on joint faces. Core lose @ beginning of run (weathered pegmatite) 5.1' to 10.1' - 4 joints @ 20°-30°, 2+ joints @ 0°-10°		
		0:52	5.0	(2.5') 50	(0.7') 14				
		0:55							
		1:04							
2295.2	10.1	0:59							
2295.2	10.1	2:24					Blk, gry, wht, v. slt. weathered to fresh Henderson gneiss, mod. hard to v. hard, v. close to mod. close frac. spacing. Some Fe-staining and mineralzation on joint faces near beginning of run. Augens thin pegmatite @ 13.1' 10.1' to 15.1' - 2 joints @ 40°-45°, 2 joints @ 20°, 8 joints @ 0°-10° SREC 64% (8.9) SROD 38% (5.3) Coring terminated @ 15.1' (elev. 2290.21 ft) in hr. (gneiss)		
		2:32	5.0	(4.4') 88	(3.2') 64				
		2:27							
		2:09							
2290.2	15.1	1:12							