



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. EB1-A BORING LOCATION (STA.) 14+37 OFFSET 15' Lt. ALIGNMENT -L-
 COLLAR ELEV. 2304.5 NORTHING 518,369.3 EASTING 874,747.3 GROUND WATER
 TOTAL DEPTH 21.0 DRILL MACHINE CME-45C DRILL METHOD HSA/SPT/NXWL 0 HR. 3.2
 DATE STARTED 5/7/03 DATE COMPLETED 5/7/03 HAMMER TYPE 140lb. Auto 24 HR. 3.5

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	100					
2304.5															Topsoil
	0.7														Black, Gray, White, Severely Weathered Rock (Gneiss).
2300	5.0	60/0.1													Auger Refusal @ 5.6' (Elev. 2298.9) on Hard Rock (Gneiss), Begin Core in Black, Gray, White, Slightly Weathered to Fresh Henderson Gneiss, Hard, Very Close Fracture Spacing.
	5.6														Black, Gray & White, Fresh Henderson Gneiss, Hard, Close Fracture Spacing.
	6.6														Black, Gray & White, Fresh Henderson Gneiss, Hard, Very Close to Close Fracture Spacing.
2295	11.0														Black, Gray & White Fresh Henderson Gneiss, Hard, Very Close to Moderately Close Fracture Spacing.
	16.0														Boring Terminated @ 21.0' (Elev. 2283.5) in Hard Rock (Gneiss). Water from Glady Fork Creek used as drilling fluid.
2285	21.0														
2283.5	21.0														

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS GEOTECHNICAL UNIT CORE BORING REPORT															
Project No.:		8.2001201		I.D. No.:		B-3914		Boring No.:		EB1-A					
Site				Bridge 116 over Glady Fork Creek on SR1105				County:				Transylvania			
Collar Elev.:		2304.5'		Core Size:		NX		Equipment:		CME-45C					
Driller:		R. GRADY		Geologist:		Johnson		Personnel:		M. BROWN					
Total Depth:		21.0 ft		Total Run:		15.4Ft		Date:		07MAY03					
Elev. (ft.)	Depth (ft.)	Drill Rate (min/ft)	Run	REC %	RQD %	SAMP No.	FIELD CLASSIFICATION AND REMARKS								
2298.9	5.6	1:28					Blk, gry, wht sli. Weathered to fresh Henderson gneiss, hard, v. close fract. Spacing, Fe-stained vertical joint, augens. 5.6' to 6.6' - 1 joint @ 0°, 1 joint @ 90°								
			1.0	(0.4') 40	(0.0') 0										
2297.9	6.6														
2297.9	6.6	1:02					Blk, gry, wht fresh Henderson gneiss, hard, close fracture spacing, near vertical jt. (6.6-8.1') Fe-stained face, augens. 6.6' to 11.0' - 6 joints @ 30°-40°, 1 joint @ 90°								
		0:49													
		0:14	4.4	(2.3') 52	(0.5') 11										
2293.5	11.0	0:12					Blk, gry, wht, fresh Henderson gneiss, hard, v. close to close fract. Spacing, augens, some mineralization on jt. face. 11.0' to 16.0' - 5 joints @ 0°-10°, 1 joint @ 40°								
		1:28/0.4													
2293.5	11.0	1:01													
		1:10					Blk, gry, wht fresh Henderson gneiss, hard, v. close to mod. close fract. Spacing, healed near vert. Jt. w/ some Fe-staining. 16.0' to 21.0' - 9 joints @ 0°-10°, 2 joints @ 20°								
		0:58	5.0	(3.9') 78	(2.7') 54										
2288.5	16.0	1:03													
2288.5	16.0	1:00					Blk, gry, wht fresh Henderson gneiss, hard, v. close to mod. close fract. Spacing, healed near vert. Jt. w/ some Fe-staining. 16.0' to 21.0' - 9 joints @ 0°-10°, 2 joints @ 20°								
		1:02													
		1:12													
		1:08	5.0	(4.5') 90	(2.9') 58		SREC 72% (11.1) SROD 40% (6.1) Coring terminated @21.0' (elev. 2283.5ft) in hr (gneiss).								
		1:16													
2283.5	21.0	1:13													