

DATE 04/13/2000

CORE BORING REPORT

PROJECT: 8.2711301 I. D. NO: B-2905 BORING NO: B4-B GEOLOGIST: J.W. MANN

DESCRIPTION: BRIDGE NO. 113 ON SR-1179 OVER SOUTH FORK NEW RIVER

COUNTY: ASHE COLLAR ELEVATION: 2823.2 FT. TOTAL DEPTH: 38.0 FT.

ELEV. (FEET)	DEPTH (FEET)	DRILL RATE (MIN./FT.)	RUN (FEET)	REC. FEET %	RQD. FEET %	SAMP. #	FIELD CLASSIFICATION AND REMARKS
2816.3	6.9		1.3	0.7	0.0		CORED ALLUVIAL BOULDERS FROM (6.9-8.0 ft.). [~8.0 ft.]
				54	0		
2815.0	8.2		5.0	3.2	0.4		HARD ROCK @ 8.0 ft.: BRN-GRAY, F.-GRAINED MIC. GNEISS. ROCK IS MOD. HARD-HARD, MOD.-SLI. WEATHERED, & MOD. FRAC. W/ RUBBLE ZONES-- EXTREMELY FRAC. OBSERVED JOINTS: 7 @ 30-60° ALONG FOLIATION. ADS & ADT = INDETERMINABLE. OTHER JOINTS NOT DISCERNIBLE DUE TO RUBBLE ZONES. STRATA REC = 65% STRATA RQD = 8% [13.2 ft.]
2815.0	8.2			64	8		
2810.0	13.2						
2810.0	13.2		5.0	4.7	1.9	RS-1	BRN-GRAY, GENERALLY F.-GRAINED, MED.-HARD MIC. GNEISS. ROCK IS MODERATELY SEVERE-VERY SLI. WEATHERED & EXTREMELY- SLI. FRAC. 4 JOINTS @ 0-30° ADS = 0.37 ft. ADT = 0.01 ft. 16 JOINTS @ 30-60° ADS = 0.28 ft. ADT = 0.01 ft. MOST JOINTS ALONG FOLIATION. [18.2 ft.]
				94	38		
2805.0	18.2		5.0	3.9	0.5		BRN-GRAY, THINLY LAMINATED, F.-GRAINED MIC. GNEISS. ROCK IS MOD. HARD-HARD, MODERATELY-V. SLI. WEATHERED, GENERALLY MOD. FRAC. 5 JOINTS @ 0-30° ADS = 0.51 ft. ADT = 0.01 ft. 15 JOINTS @ 30-60° ADS = 0.30 ft. ADT = < 0.01 ft. 2 JOINTS @ 60-90° ADS = 1.70 ft. ADT = 0.01 ft. [23.2 ft.]
2805.0	18.2			78	10		
2800.0	23.2						
2800.0	23.2		5.0	4.6	4.3		GRAY, FINE-GRAINED MICACEOUS GNEISS. ROCK IS HARD, FRESH, AND MODERATELY FRACTURED TO SOUND. 3 JOINTS @ 0-30° ADS = 1.86 ft. ADT = 0.01 ft. 3 JOINTS @ 30-60° ADS = 0.7 ft. ADT = 0.01 ft. 1 JOINT @ 60-90° ADT = < 0.01 ft. [28.2 ft.]
				92	86		
2795.0	28.2		4.9	4.9	2.6	RS-2	GRAY, FINE-GRAINED, PHYLLITIC MICACEOUS GNEISS. ROCK IS HARD, FRESH, AND MODERATELY FRACTURED TO SOUND. 12 JOINTS @ 30-60° ADS = 0.28 ft. ADT = ≤ 0.01 ft. JOINTS ALONG FOLIATION. 2 INTERSECTING JOINTS @ 60-90° AT BOTTOM OF CORE RUN. [33.1 ft.]
2795.0	28.2			100	53		
2790.1	33.1						

CORING TERMINATED AT
ELEVATION 2785.2 FT.

DRILLER: D.O. CHEEK CORE SIZE: NXWL EQUIPMENT: CME-550

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ELEV. (FEET)	DEPTH (FEET)	DRILL RATE (MIN./FT.)	RUN (FEET)	REC. FEET %	RQD. FEET %	SAMP. #	FIELD CLASSIFICATION AND REMARKS
2790.1	33.1		4.9	4.9	4.5		GRAY, FINE-GRAINED, PHYLLITIC MICACEOUS GNEISS. ROCK IS HARD, FRESH, AND GENERALLY SOUND. 3 JOINTS @ 30-60° ADS = 1.83 ft. ADT = 0.01 ft. 1 JOINT @ 60-90° ADT = 0.01 ft. [38.0 FT.]
				100	92		
2785.2	38.0						
2785.2	38.0						

CORING TERMINATED AT
ELEVATION 2785.2 FT.

DRILLER: DO CHEEK CORE SIZE: NXWL EQUIPMENT: CME-550