SHEET 1 OF 2

04/13/2000

DATE

**CORE BORING REPORT** PROJECT: BORING NO: B4-B GEOLOGIST: J.W. MANN 8.2711301 I. D. NO: <u>B-2905</u> BRIDGE NO. 113 ON SR-1179 OVER SOUTH FORK NEW RIVER DESCRIPTION: COLLAR ELEVATION: 2823.2 FT. TOTAL DEPTH: 38.0 FT. ASHE COUNTY: DRILL REC. RQD. SAMP. FIELD CLASSIFICATION AND REMARKS ELEV. DEPTH RATE RUN FEET FEET (FEET) (FEET) MIN./FT. (FEET) 2816.3 6.9 CORED ALLUVIAL BOULDERS FROM (6.9-8.0 ft.). 0.7 0.0 1.3 54 0 [~8.0 ft.] HARD ROCK @ 8.0 ft.: BRN-GRAY, F.-GRAINED MIC. GNEISS. ROCK IS MOD. 2815.0 8.2 HARD-HARD, MOD.-SLI. WEATHERED, & MOD. FRAC. W/ RUBBLE ZONES---2815.0 8.2 EXTREMELY FRAC. OBSERVED JOINTS: 7 @ 30-60° ALONG FOLIATION. 0.4 3.2 ADS & ADT = INDETERMINABLE. OTHER JOINTS NOT DISCERNIBLE DUE TO 5.0 64 8 RUBBLE ZONES. STRATA REC = 65% STRATA RQD = 8% [13.2 ft.] 2810.0 13.2 BRN-GRAY, GENERALLY F.-GRAINED, MED.-HARD MIC. GNEISS. ROCK IS 2810.0 13.2 MODERATELY SEVERE-VERY SLI. WEATHERED & EXTREMELY- SLI. FRAC. 4.7 1.9 5.0 4 JOINTS @ 0-30° ADS = 0.37 ft. ADT = 0.01 ft. 38 16 JOINTS @ 30-60° ADS = 0.28 ft. ADT = 0.01 ft. 94 MOST JOINTS ALONG FOLIATION. 2805.0 18.2 BRN-GRAY, THINLY LAMINATED, F.-GRAINED MIC. GNEISS. ROCK IS MOD. 2805.0 18.2 HARD-HARD, MODERATELY-V. SLI. WEATHERED, GENERALLY MOD. FRAC. 0.5 3.9 5.0 5 JOINTS @ 0-30° ADS = 0.51 ft. ADT = 0.01 ft. 78 10 15 JOINTS @ 30-60° ADS = 0.30 ft. ADT = < 0.01 ft. 2800.0 23.2 2 JOINTS @ 60-90° ADS = 1.70 ft. ADT = 0.01 ft. GRAY, FINE-GRAINED MICACEOUS GNEISS. ROCK IS HARD, FRESH, AND 2800.0 23.2 4.3 MODERATELY FRACTURED TO SOUND. 4.6 3 JOINTS @ 0-30° ADS = 1.86 ft. ADT = 0.01 ft. 5.0 3 JONTS @ 30-60° ADS = 0.7 ft. ADT = 0.01 ft. 92 86 1 JOINT @ 60-90° ADT = < 0.01 ft. [28.2 ft.] 2795.0 28.2 GRAY, FINE-GRAINED, PHYLLITIC MICACEOUS GNEISS. ROCK IS HARD, 2795.0 28.2 2.6 RS-2 FRESH, AND MODERATELY FRACTURED TO SOUND. 4.9 12 JOINTS @ 30-60° ADS = 0.28 ft. ADT =  $\leq$  0.01 ft. JOINTS ALONG 4.9 FOLIATION. 2 INTERSECTING JOINTS @ 60-90° AT BOTTOM OF CORE RUN. 100 53 [33.1 ft.] 2790.1 33.1 CORING TERMINATED AT ELEVATION 2785.2 FT. CME-550 CORE SIZE: NXWL EQUIPMENT: DRILLER: D.O. CHEEK

14/22 HEET 2 OF 2

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. DEPTH RATE RUN FEET FEET SAMP FIELD CLASSIFICATION AND REMARKS (FEET) (FEET) (FEET) (FEET) 4.9 4.5 GRAY, FINE-GRAINED, PHYLLITIC MICACEOUS GNEISS. ROCK IS HARD, FRESH, AND GENERALLY SOUND.  4.9 4.5 GRAY, FINE-GRAINED, PHYLLITIC MICACEOUS GNEISS. ROCK IS HARD, FRESH, AND GENERALLY SOUND.  27785.2 38.0 J. JOINT @ 60-90° ADT = 0.01 ft. [38.0 FT.]  CORING TERMINATED AT ELEVATION 2785.2 FT.						<u></u>	DE	DATE <u>04/13/2000</u> BORING REPORT
DESCRIPTION: BRIDGE NO. 113 ON SR-1179 OVER SQUTH FORK NEW RIVER  COUNTY: ASHE COLLAR ELEVATION: _2823.2							יאכו	BORING REPORT
COUNTY: ASHE COLLAR ELEVATION: 2823.2 FT. TOTAL DEPTH: 38.0 FT.    ELEV   DEPTH   RATE   RUN   FEET   FEET	PROJE	CT: _	8.2711	301	I. D. NO:	B-29	905	BORING NO: B4-B GEOLOGIST: J.W. MANN
ELEV. DEPTH RATE RUN FEET FEET SAMP. FIELD CLASSIFICATION AND REMARKS  (FEET) (FEET) MIN./FT. (FEET) % % # GRAY, FINE-GRAINED, PHYLLITIC MICACEOUS GNEISS. ROCK IS HARD, FRESH, AND GENERALLY SOUND.  4.9 4.5 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.)  CORING TERMINATED AT ELEVATION 2785.2 FT.	DESCR	IPTION:		BRIDG	SE NO. 11	3 ON SF	R-1179	OVER SOUTH FORK NEW RIVER
ELEV.   DEPTH   RATE   RUN   FEET   FEET   SAMP   FIELD CLASSIFICATION AND REMARKS	COUNT	Y:	ASHE			COLLA	R ELEV	'ATION:2823.2 FT.
(FEET) (FEET) MINJFT. (FEET) % % # GRAY, FINE-GRAINED, PHYLLITIC MICACEOUS GNEISS. ROCK IS HARD, FRESH, AND GENERALLY SOUND.  4.9 4.5 FRESH, AND GENERALLY SOUND.  2785.2 38.0 JUNITS @ 30-60° ADS = 1.83 ft. ADT = 0.01 ft. [38.0 FT.]  2785.2 38.0 JUNITS @ 30-80° ADT = 0.01 ft. [38.0 FT.]  CORING TERMINATED AT ELEVATION 2785.2 FT.	ELEV	DEDTU		DUN			SAMP	FIELD CLASSIFICATION AND REMARKS
4.9 4.9 100 92 3 JOINTS @ 30-60° ADS = 1.83 ft. ADT = 0.01 ft.  1 JOINT @ 60-90° ADT = 0.01 ft.  [38.0 FT.]  CORING TERMINATED AT ELEVATION 2785.2 FT.	(FEET)	i i		1 1	1		1	1 IEED GEAGGII IOATION AND INLINIAING
2785.2 38.0 100 92 3 JOINTS @ 30-60° ADS = 1.83 ft. ADT = 0.01 ft. [38.0 FT.]  2785.2 38.0	2790.1				4.9	4.5		
2785.2 38.0 CORING TERMINATED AT ELEVATION 2785.2 FT.				4.9	100	92		_
CORING TERMINATED AT ELEVATION 2785.2 FT.		<del> </del>					ļ <u>-</u>	1 JOINT @ 60-90° ADT = 0.01 ft. [38.0 FT.]
ELEVATION 2785.2 FT.	2785.2	38.0						
ELEVATION 2785.2 FT.								
ELEVATION 2785.2 FT.								
ELEVATION 2785.2 FT.		<u> </u>						
ELEVATION 2785.2 FT.								
ELEVATION 2785.2 FT.								
ELEVATION 2785.2 FT.								
ELEVATION 2785.2 FT.								
ELEVATION 2785.2 FT.								
ELEVATION 2785.2 FT.								
ELEVATION 2785.2 FT.				-				
ELEVATION 2785.2 FT.								
ELEVATION 2785.2 FT.				]				
ELEVATION 2785.2 FT.				1				
ELEVATION 2785.2 FT.				1				
ELEVATION 2785.2 FT.								
ELEVATION 2785.2 FT.				-				
ELEVATION 2785.2 FT.				1				
		<u> </u>	<u> </u>	1	<u> </u>		1	
DRILLER: DO CHEEK CORE SIZE: NXWL EQUIPMENT: CME-550								ELEVATION 2100.2 11.
	DRILLER: <u>DO CHEEK</u> COR						COR	E SIZE: NXWL EQUIPMENT: CME-550