

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL UNIT BORING LOG SHEET 1 OF 1

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

PROJECT NO. 33177.1.1	ID. B-3629	COUNTY CASWELL	GEOLOGIST MECHUM T.A.
SITE DESCRIPTION BRIDGE NO. 11 ON SR 1565 OVER COUNTRY LINE CREEK			GROUND WATER
BORING NO. B1-B	BORING LOCATION 25+88.00	OFFSET 4.60	ALIGNMENT L
COLLAR ELEVATION 384.96	NORTHING	EASTING	0 HR. 24 HR.
TOTAL DEPTH 55.15	DRILL MACHINE CME-550	DRILL METHOD NWCAS/NXWL	HAMMER TYPE AUTOMATIC
START DATE 12/16/03	COMPLETION DATE 12/16/03	SURFACE WATER DEPTH 0.3	DEPTH TO ROCK 19.55

PROJECT NO: (33177.1.1) PROJECT ID: B-3629 COUNTY: Caswell GEOLOGIST: C.C. MURRAY
 SITE DESCRIPTION: Bridge # 11 on SR 1565 over Country Line Creek DRILLER: J.E. ESTEP
 BORING NO: B1-B BORING LOCATION (STA): 25+88 OFFSET: 4.6RT
 COLLAR ELEV: 384.96 PERSONNEL: JEE DKB TAM CCM CORE SIZE: NXWL
 TOTAL DEPTH: 55.15 DRILL MACHINE: CME-550 DATE STARTED: 12/16/03
 TOTAL RUN: 35.8 DRILL EQUIP: DATE COMPLETED: 12/16/03

ELEV. (FT.)	DEPTH (FT.)	BLOW COUNT			PEN. (FT.)	BLOWS PER FOOT					SAMPLE NUMBER	LOG	SOIL AND ROCK DESCRIPTION
		0.5'	1.0'	1.5'		0	25	50	75	100			
384.96	0	0	0	0							SS-38	SAT	(ALLUVIUM) BRN TO GRAY-GREEN MED. STIFF TO SOFT MICA CLAYEY F. SANDY SILT
380.00	5.3	2	1	2								SAT	
375.00	10.3	2	2	2								SAT	
370.00	15.3	45	55		0.8					100 X		M	GRAVEL WEATHERED ROCK (BLACK-WHITE-GREEN TO GRAY-WHITE SEV. WEATH. MICA GNEISS)
365.00	19.3	100			0.2					100 X	CORE1	M	CRYSTALLINE ROCK REC=38% RQD=6%
360.00	25.1										CORE2		CRYSTALLINE ROCK REC=76.5% RQD=0%
355.00	29.8										CORE3		CRYSTALLINE ROCK REC=94% RQD=0%
350.00	35.1										CORE4		CRYSTALLINE ROCK REC=100% RQD=7%
345.00	40.0										CORE5		CRYSTALLINE ROCK REC=95% RQD=20%
340.00	44.4										CORE6		CRYSTALLINE ROCK REC=89% RQD=39%
335.00	50.0										CORE7		CRYSTALLINE ROCK REC=62.7% RQD=43%
330.00													
325.00													
320.00													
315.00													
310.00													
305.00													

ELEV. (FT)	DEPTH (FT)	DRILL RATE (MIN/1.0 FT)	RUN NO.	REC % (FT)	RQD % (FT)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
365.61	19.35		1	38	6		19.35 - 35' Moderately severe weathering, soft to moderately hard, very close spaced fractures. Quartz-feldspar mica gneiss from sediment. Joint sets at dips of 20,30,85 and 90 degrees. Foliation at 30 degree dip.
359.81	25.15		2	76.5	0		
355.11	29.85		3	94	0		
349.81	35.15		4	100	7		35 - 42 Moderately severe to moderate weathering, moderately hard, very close spaced fractures. Quartz-Orthoclase-biotite gneiss from conglomerate. Fracture sets at dips of 20, and 60, degrees. Foliation (bedding?) is at 20 degree dip and accounts for most of the rqd loss.
344.91	40.05		5	95	20		42' - 45' Hard to moderately hard, moderately weathered, close fractured quartzite gneiss. fractures at dip of 80 degrees light colored.
340.51	44.45		6	89	39		45' - 47' Severely weathered very close fractured biotite feldspar gneiss. Dark colored
334.91	50.05		7	62.7	43		47' to 55.15 slightly weathered, hard, moderately close fractured. Black biotite-quartz feldspar gneiss after seds.
329.81	55.15						

NOTES

BORING TERMINATED AT
 ELEV. 329.81 IN SLI. WEATH.
 HARD BIOTITE-QUARTZ
 FELDSPAR GNEISS