

**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL UNIT BORING LOG**

PROJECT NO 8.2761001	ID B-3266	COUNTY WILKES	GEOLOGIST L.LACKER
SITE DESCRIPTION BR. 264 ON SR-1567 OVER N. FORK REDDIES RIVER			GND WATER
BORING NO B1-B	NORTHING 0.00	EASTING 0.00	0 HR N/A
ALIGNMENT -L-	BORING LOCATION 12+30.500	OFFSET 2.30m RT	24 HR 1.00m
COLLAR ELEV 388.75m	TOTAL DEPTH 14.09m	START DATE 11/05/03	COMPLETION DATE 11/05/03
DRILL MACHINE CME-45	DRILL METHOD SPT CORE BORING	HAMMER TYPE AUTOMATIC	
SURFACE WATER DEPTH		DEPTH TO ROCK 5.68m	Log B1-B, Page 1 of 1

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WILKES COUNTY

CORE BORING REPORT

B1-B

CORE 1: 4.68 – 5.68	REC=0% RQD=0%
CORE 2: 5.68 – 7.20	REC=59% RQD=11%
CORE 3: 7.20 – 8.72	REC=36% RQD=8%
CORE 4: 8.72 – 10.24	REC=68% RQD=14%
CORE 5: 10.24 – 11.76	REC=72% RQD=30%
CORE 6: 11.76 – 13.24	REC=89% RQD=66%
CORE 7: 13.24 – 14.09	REC=95% RQD=79%

LAYER 1: 4.68 – 5.68 No recovery. All weathered rock and possible saprolite. REC=0% RQD=0%

LAYER 2: 5.68 – 11.19 Soft to hard, very severely to moderately weathered, fine biotite gneiss with granite sills in layers about 0.5 meters each. Includes much weathered rock not recovered. Very close to close fractured, >50 pieces, longest piece 22 cm. Joints indeterminate, most parallel with foliation at 10 degrees, smooth, coated with Fe- and Mn-oxides. REC=55% RQD=9%

LAYER 3: 11.19 – 14.09 Hard, slightly weathered, fine biotite gneiss, with granite sill at 11.86-12.30. Close to moderately close fractured, 20 pieces, longest piece 40 cm. 14 joints on foliation at 20-30degrees, smooth, clean or with a little Fe-oxide. 2 joints at 10 degrees, moderately rough, clean. REC=94% RQD=74%

ELEV	DEPTH	BLOW CT			PEN (m)	BLOWS PER 30cm					SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION	
		15cm	15cm	15cm		0	25	50	75	100				
388.75														
388.00	0.77	8	8	10	0.30									ALLUVIUM: SILTY SAND, GRAVEL AND BOULDERS
386.00	2.29	8	8	15	0.30									SAPROLITE: GRAY, SILTY FINE SAND
384.00	3.82	2	6	14	0.30									WEATHERED ROCK: SEV. WEATHERED BIOTITE GNEISS REC=0 RQD=0
382.00														HARD ROCK: MOD. TO SEV. WEATHERED BIOTITE GNEISS AND GRANITE LAYERS, WITH WEATHERED ROCK SEAMS REC=55 RQD=9
380.00														RS-2
378.00														RS-3
376.00														RS-4
374.66														HARD ROCK: SLI. WEATHERED BIOTITE GNEISS AND GRANITE LAYERS REC=94 RQD=74
TERMINATED BORING IN HARD ROCK AT ELEVATION 374.66 METERS.														