

**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 B2-B		NORTHING 0.00		EASTING 0.00		0 HR N/A						
ALIGNMENT -L-		BORING LOCATION 12+46.300		OFFSET 4.70m RT		24 HR 0.79m						
COLLAR ELEV 388.49m		TOTAL DEPTH 12.10m		START DATE 10/29/03		COMPLETION DATE 11/01/03						
DRILL MACHINE CME 550			DRILL METHOD SPT CORE BORING			HAMMER TYPE AUTOMATIC						
SURFACE WATER DEPTH			DEPTH TO ROCK 5.59m			Log B2-B, Page 1 of 1						
ELEV	DEPTH	BLOW CT			PEN (m)	BLOWS PER 30cm				SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION
		15cm	15cm	15cm		0	25	50	75			
388.49												
388.00	0.71	10	18	17	0.30							ALLUVIUM: COARSE SAND, GRAVEL AND BOULDERS
386.00	2.23	2	4	10	0.30							SAPROLITE: RED-BROWN, MICACEOUS, SILTY, FINE SAND
384.00	3.76	100			0.09							WEATHERED ROCK: WEATHERED BIOTITE GNEISS WITH HARD ROCK SEAMS
382.00	5.28	100			0.05							HARD ROCK: MOD. TO SEV. WEATHERED BIOTITE GNEISS REC=54 RQD=0
380.00												HARD ROCK: SLI. WEATHERED BIOTITE GNEISS REC=100 RQD=64
378.00												HARD ROCK: MOD. SEV. TO V. SEV. WEATHERED REC=94 RQD=0
376.39												HARD ROCK: MOD. WEATHERED REC=78 RQD=23
												HARD ROCK: FRESH REC=100 RQD=100
												HARD ROCK: MOD. TO SLI. WEATHERED BIOTITE GNEISS AND GREENSTONE REC=96 RQD=49
TERMINATED BORING IN HARD ROCK AT ELEVATION 376.39 METERS.												

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WILKES COUNTY

CORE BORING REPORT

B2-B

CORE 1: 5.59 – 6.02 REC=79% RQD=0%
 CORE 2: 6.02 – 7.54 REC=66% RQD=25%
 CORE 3: 7.54 – 8.99 REC=98% RQD=60%
 CORE 4: 8.99 – 10.58 REC=91% RQD=63%
 CORE 5: 10.58 – 12.10 REC=94% RQD=45%

LAYER 1: 5.59 – 6.92 Soft to moderately hard, severely to moderately weathered biotite gneiss. Very close fractured, all small pieces and rubble. Numerous joints on foliation at 15 degrees, smooth, coated with Fe- and Mn-oxides. REC=54% RQD=0%

LAYER 2: 6.92 – 8.39 Hard, slightly weathered biotite gneiss. Close fractured, 12 pieces, longest piece 50 cm. 9 joints on foliation at 20 degrees, smooth, coated with Fe-oxide. 2 joints at 60-75 degrees, smooth to moderately rough, coated with Fe-oxide. REC=100% RQD=64%

LAYER 3: 8.39 – 8.72 Very soft to medium hard, very severely to moderately severely weathered biotite gneiss. Close fractured, 7 pieces and sandy material, longest piece 7 cm. Joints indeterminate. REC=94% RQD=0%

LAYER 4: 8.72 – 9.36 Moderately hard, moderately weathered biotite gneiss. Close to very close fractured, 14 pieces, longest piece 15 cm. 13 joints on foliation at 20 degrees. 1 joint at 40 degrees. All joints smooth, coated with a little Fe-oxide. REC=78% RQD=23%

LAYER 5: 9.36 – 10.01 Hard, fresh biotite gneiss. No joints. REC=100% RQD=100%

LAYER 6: 10.01 – 12.10 Hard, moderately to slightly weathered, interlayered biotite gneiss and chlorite-amphibole gneiss in layers about 0.5 meter thick. Close fractured, 31 pieces, longest piece 24 cm. 27 joints on foliation at 10-20 degrees, moderately rough, coated with Fe- and Mn-oxides. 1 joint at 45 degrees, moderately rough, coated with a little alum. 1 joint at 80 degrees, rough, coated with Fe-oxide. REC=96% RQD=49%