## NORTH CAROLINA DEPARTMENT OF TRANSPORTATION GEOTECHNICAL UNIT BORING LOG

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PROJECT NO 8.2761001 ID B-3266 COUNTY WILKES GEOLOGIST L.L.ACKER														
SITE DESCRIPTION BR. 264 ON SR						1567 OVER N. FORK REDDIES RIVER								GND WATER
BORING						HING 0.00 EASTING 0.00						0 HR 1.20m		
ALIGNM	ENT -L-					G LOCATION 12+66.100 OFFSET 3.60m LT								
COLLAR ELEV 389.11m TOTAL DEPTH 16.15m START DATE 10/28/03 COMPLETION DATE 10/29/03														
DRILL MACHINE CME 550 DRILL METHOD SPT CORE BORING HAMMER TYPE A													E AUTOMATIC	
SURFACE WATER DEPTH N/A				TO EVI	DEPTH TO ROCK 7.50m BLOWS PER 30cm				)m			Log B3-A, Page 1 of 1 SOIL AND ROCK		
ELEV	DEPTH	ı			PEN					SAMPLE	MOI	اةا		
		15cm	15cm	15cm	(m)	1 2	, 5 · .	1	5 10	NO	MOI	G	DESCR	RIPTION
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389.11				ļ			Ground	Surface		ļ		0000		
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388.00_	-											0000	GKA	VAEL
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386.00_	2.97	17	18	17	0.30		\35			SS-2			SAPROLITE: I MICACEOUS	
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	4.50	100			0.13				100				WEATHER	
384.00_	_		·			=====				9			RED-BROWN BIOTITE GNEIS	
304.00_	-					=====							DIOTITE ONLIN	JAMES OF GIVEN
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382.00_														
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380.00	9.07	60			0.02				60-					
300.00_	0.07					======			=====	١		図		
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370.00						<u> </u>							HARD ROCK: SI	
376.00	<del> </del>  -								=====			慰	GRANITE RE	<b>ン−30 KMD=3/</b>
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274.00				70										
374.00_	<del></del>													
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372.96					<del>                                     </del>	EBMINH	TENE	DRING	N-HABR	<del> </del>			GIVANITE RE	J-30 RQD-20
=						ROCK-	AT ELE	VATION	372.96	1				,
	  -						- MET	ERS.						
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15 OF 23

PROJECT NO: 8.2761001 B-3266 WILKES COUNTY

## **CORE BORING REPORT**

## B3-A

CORE 1: 9.93 – 11.64	REC=94% RQD=55%
CORE 2: 11.64 – 13.16	REC=80% RQD=24%
CORE 3: 13.16 – 14.63	REC=98% RQD=70%
CORE 4: 14.63 – 16.15	REC=95% ROD=45%

- LAYER 1: 9.93 12.37 Moderately hard, moderately weathered biotite gneiss with severely weathered seams up to 10 cm. thick; interlayered with hard, slightly weathered granite sills. Layers are about 0.5 meters thick. Very close to close fractured, 31 pieces, longest piece 27 cm. At least 10 very close spaced joints in biotite gneiss on foliation at 10 degrees, smooth, coated with a little Fe-oxide. 5 joints at 10-30 degrees in granite, moderately rough, clean. 4 joints at 10 degrees in granite, weathered rough. 1 joint at 60 degrees in granite, smooth, clean. REC=83% RQD=44%
- LAYER 2: 12.37 15.29 Hard to very hard, slightly to very slightly weathered granite. Close fractured, 21 pieces, longest piece 35 cm. 16 joints at 10-20 degrees, moderately rough. 5 joints at 30-40 degrees, smooth to moderately rough. 4 joints at 65 degrees, smooth. Joints thinly coated with Fe- and Mn-oxides, alum, and/or mica. REC=98% RQD=57%
- LAYER 3: 15.29 16.15 Hard, slightly weathered granite, with a few seams of biotite gneiss up to 30 cm thick. Close fractured, 12 pieces, longest piece 12 cm. 10 joints at 10-20 degrees, smooth to moderately rough. 3 joints at 30 degrees, smooth. 2 joints at 65 degrees, smooth. Joints coated with Fe- and Mn-oxides, alum, and/or mica. REC=90% RQD=26% (low REC due to mechanical failure).