

Harnett County

HAR-A-5-83



# North Carolina Department of Natural Resources & Community Development

James B. Hunt, Jr., Governor

Joseph W. Grimsley, Secretary

DIVISION OF  
LAND RESOURCES

Stephen G. Conrad, Director

Telephone 919 733-3833

790705 W  
351450 N

Dear Mr. Meares :  
Meares

The North Carolina Geological Survey Section, Department of Natural Resources and Community Development is drilling a number of shallow auger holes in order to gather information about geologic structure and rock type. This information will be used to construct a new State Geologic Map. One or more desirable sites for auger holes are located either within the highway easement across your property or on your property as indicated on the attached sketch map.

Geological Survey personnel would be drilling 6-inch diameter auger holes not more than 105 feet deep with a truck mounted auger rig and accompanying service truck. In some instances geophysical equipment would be lowered down the hole to gather part of the necessary information. When finished all equipment, material, and structures will be removed, cuttings scattered, and the holes permanently plugged in accordance with state regulations. All work will take from less than one day to not more than one or two days, depending on how many holes we are requesting to drill on your right-of-way or your property.

Please indicate your permission for us to do this work by signing and returning this letter to us.

Respectfully,

Rebecca M. Enos  
Driller-in-Charge

Bobby Meares  
Land Owner (or)  
Person in charge of the land

23 June 1983  
Date

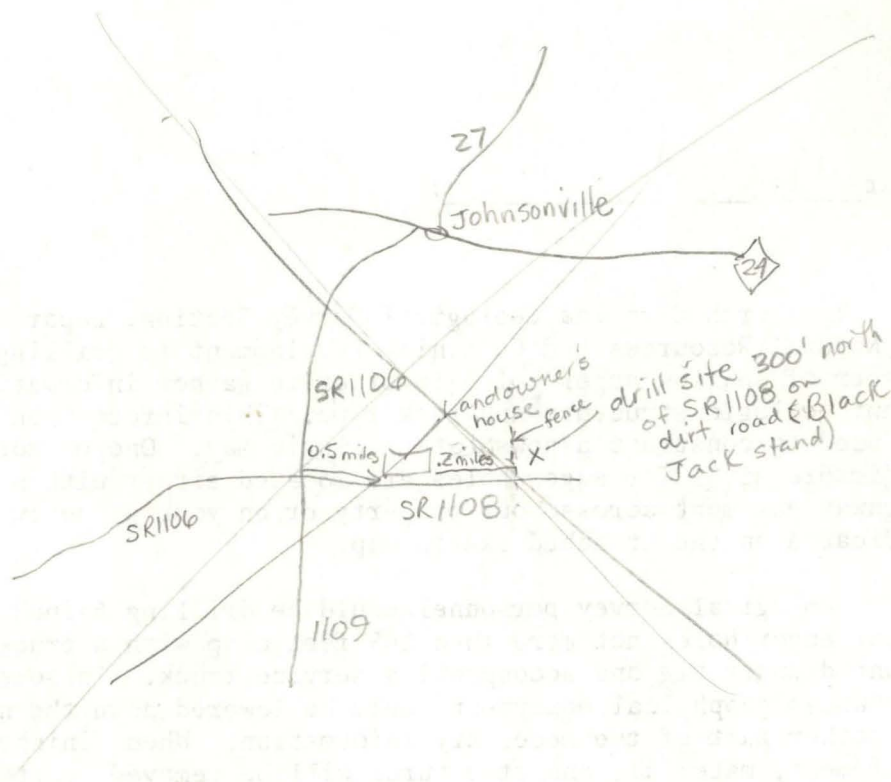
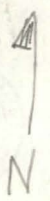
INTEC	DRILLING REMARKS	DESCRIPTION: CIRCULATED RETURNS	SAMPLE	CIRCULATION REMARKS	DESCRIPTION: FLIGHT RETURNS	SAMPLE
0-4	curry 20500	orange sand		Spin out	790705 W 351450 N	
4-9	aa 40sec	aa		aa		
9-14	aa 55sec	bright orange yellow sand and clay chips		aa		
14-19	aa 40sec	tan sand followed by bright yellow orange sand		aa		
19-24	aa 40sec	orangish tan clayey sand and gray clayey sand mixed		aa		
24-29	aa 25sec	aa little more clayey		aa		
29-34	aa 40sec	aa little darker color		aa	fairy full ab	X
34-39	aa	color change grayish orange clayey sand		aa	full flight tan sandy clay	X
39-44	curry 1 min	orangish gray clayey sand		aa	virtually clean no sample	
44-49	aa 40sec	gray to slightly runny gray clayey sand		aa	tan & red clayey sands	X
49-54	aa 55sec	aa darker color		aa	ab	X
54-59	aa 30sec	not much return aa		aa	ab	X
59-64	aa	aa		aa	red & brownish gray clayey sand	X
64-69	aa tougher →	aa sticky and moist		aa	ab	X
69-74	curry 30sec	aa		aa	ab	X
74-79	aa	no return		Screen in	bluish green & red mottled clayey sand as well as what return	X
79-84	tough 70 sec	no return		aa	red & brownish gray clayey sand	X
84-89	extremely difficult 1 3/4 min	no return		aa	color change 1.5 ft. up bit to brownish gray & gray & red mottled Cap Fear bluish green & red mottled clayey sand	X
89-94						
94-99	aa - as	above				
99-104	aa - as	below				

will be 44  
49  
no sample

change sample bag to 1  
done 11/8/83

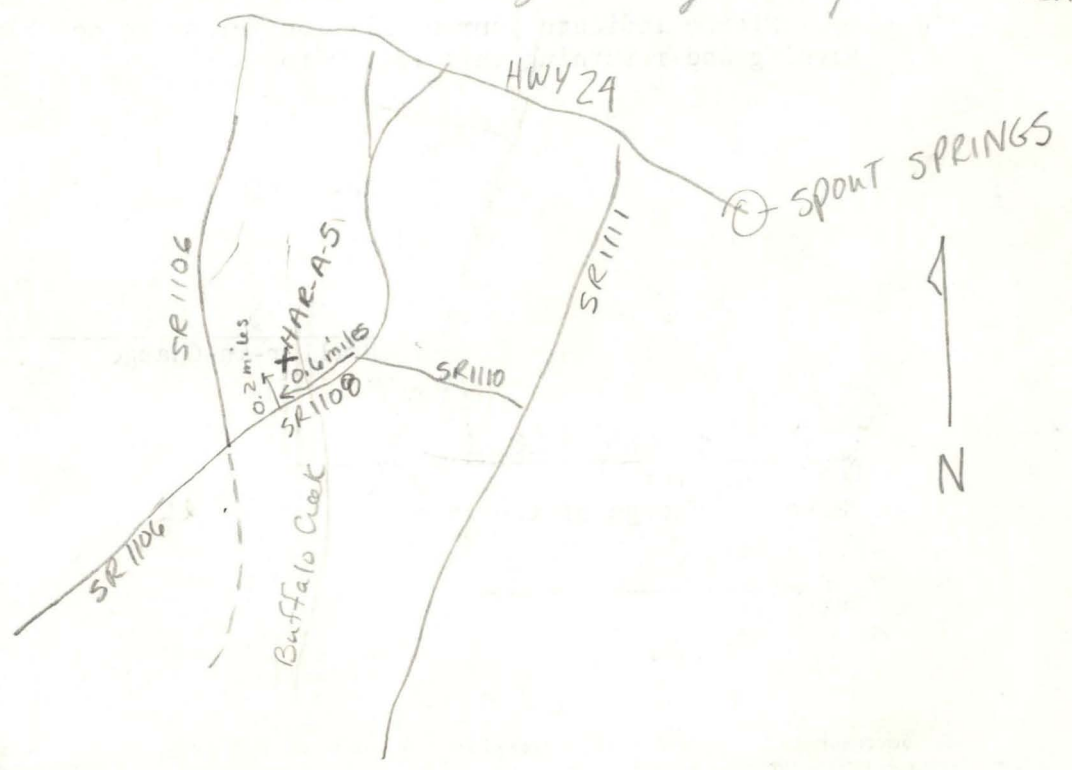
Well: HAR-A-5-03 Spud: \_\_\_\_\_ CEMENT: X Elev.: 310  
 DATE: 8/18/83 Plug: \_\_\_\_\_ SAND: \_\_\_\_\_ T.D.: 89

Harnett County  
Overhills 7 1/2' Quad.



drilled in different location; above location sand was too soft to get rig in.

8-18-83  
RME



HAR-A-5-83

Washed samples are much the same top to bottom no "red clay" encountered in this hole although gamma logs suggest some layers have more clay rich matrix than others. On basis of drill rate, ~~and~~ distribution of bluish green clayey sand typical of Cape Fear fm. on pulled flights, ~~and~~ <sup>and geophysical</sup> ~~call~~ contact between interbedded sandy clays and sands and underlying "Cape Fear Formation" at 78 feet.

ERB 8/25/83

SAMPLE DESCRIPTION

Well # 1-HAR-A-5 TD 89 Examined by: ERB Date 8/25/83

Key: A - Abundant C - Common M - Minor T - Trace R - Rare X - Major Constituent

Interval	Rock Type	Color	Texture			Quartz	Feldspar	Glauconite	Phosphate	Calcite	Shell Fragm	Mica	Pyrite	Lignite	Chalcedony	Amethyst	Rose Quartz	Tourmaline	Siderite	Limestone	Dolomite	Fossils	Fe-Stain	Opalines & Hemat				
			Grain Size	Grain Shape	Sorting																							
29 ↑			med	Ang		A	M																	T	everyth			
39			med	Ang		A	M																		M			
49			med	Ang		A	M																		T	R		
54			Med	Ang		A	T																		M	T	T	
58			Med	Ang		A	R																		T	T	aa	
64			Med	S-Ang Ang		A	T																		T	T	more	
69			Med	Ang		A	T																		T	T		
74			Med	Ang		A	T																		T	T		
79			Med	Ang		A	M																		T	T		
83			Med	Ang		A	M																		T	T	R	
89			Med	Ang		A	M																		T	T		
There is no significant																												
from Top to bottom is hole for up samples																												
0-4 L			Med	S-Ang		A	R																			R	973 n	
4-9 L		(aa)																										
9-14 L		(aa)																										
14-19 L																												
19-24 L			Med/crs	S-Ang		A																				R	R	yellow
24-29 L			Med	Ang		A	R																			R		
29-34 L			Med	Ang		A	R																			R		
34-39 L			Med	Ang		A	R																			R	R	
44-49			Med/Fine	Ang		A	R																			R		
49-54 (aa)	54-59 (aa)	59-64 (aa) (some feldspar)																								R	R	
64-69			Med/crs	Ang		A	M																			T		

down hole sample: pretty much the same except for 64-74 were much more feldspar

SAMPLE DESCRIPTION

Well # 1-HAR-A-5 TD 89 Examined by: ERP Date 5/25/83

\_\_\_\_\_ p. \_\_\_\_\_ of \_\_\_\_\_

Key: A - Abundant C - Common M - Minor T - Trace R - Rare X - Major Constituent

Color	Texture			Quartz	Feldspar	Glauconite	Phosphate	Calcite	Shell Fragm	Mica	Pyrite	Lignite	Chalcedony	Amethyst	Rose Quartz	Tourmaline	Siderite	Limestone	Dolomite	M. Fossils	Fe-Stain	Opalines & Hematite	Limonite or Hematite	Remarks	
	Grain Size	Grain Shape	Sorting																						
	med	Ang	A M					M																	everything very angular and fresh
	med	Ang	A M					T																	aa
	Med	Ang	A M					M																	aa
	Med	Ang	A T					T																	aa
	Med	Ang	A R					R																	aa - some gravel
	Med	S-Ang	A T					R																	more rounded grains
	Med	Ang	A T					R																	
	Med	Ang	A $\frac{1}{m}$					R																	
	Med	Ang	A M					T																	
	Med	Ang	A M					T																	
	Med	Ang	A M					T																	
	Med	Ang	A M					T																	
																							There is no significant difference in washed sample		
hole for up samples																									
	Med	S-Ang	A R																						qtz not as clear as up hole samples sand has yellowish tinge when seen in thin by unaided eye
		(aa)																							
		(aa)																							
		(aa)																							
	Med/Grse	S-Ang	A										R												yellow tinge has disappeared - quartz is clearer
	Med	Ang	A R					T					R												
	Med	Ang	A R					T					R												
	Med	Ang	A R					R R					R												
	Med/Fine	Ang	A R					R R					T												
1-64 (aa) some feldspar 64-69 feldspar more abundant																									
	Med/Grse	Ang	A M										T												
rather much the same. except for 64-74 were much more feldspar appears																									