

JOH-A-8-83



# 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

Dear Ned. W. Daughtry :

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

Ned Daughtry  
Land Owner (or)  
Person in charge of the land

8-15-83  
Date

INTER	DRILLING REMARKS	DESCRIPTION: CIRCUITATED RETURNS	SAMPLE	CIRCULATION REMARKS	DESCRIPTION: FLIGHT RETURNS	SAMPLE
0-4	easy 30 sec	yellow brown to gray clay →	X	spin out		
4-9	aa	except sandy aa moist	X	aa		
9-14	aa	course mushy brownish yellow sand	X	aa		
14-19	aa	grayish tan mushy, coarse sand	X	aa		
19-24	aa	very little return mushy, coarse sand gray	X	aa		
24-29	aa	aa	X	aa		
29-34	aa	aa all gray	X	aa	gray coarse sandy clay →	X
34-39	drilling stiffer aa →	aa	X	aa	change same as below →	X
39-44	tougher 45 sec	no return		screw in ①	green clay mixed with gray gravelly sand →	X
44-49	aa 45 sec	no return		aa	green clay →	X
49-54	aa	aa		change from green clay to same mixed with aa →	gray sand Same as below →	X
54-59	drilling becomes easier →	mushy sand return		aa	gray sandy clay mixed with lumps of greenish clay →	X
59-64						
64-69						
69-74						
74-79	① bottom 4 flights screwed in - when pulled of material			bottom 5 1/2 flights were full		
79-84						
84-89						
89-94						
94-99						
99-104						

Well: JOH-A-B-83

DATE: 8/16/83

Spud: \_\_\_\_\_

Plug: \_\_\_\_\_

CEMENT: \_\_\_\_\_

SAND: \_\_\_\_\_

Elev.: \_\_\_\_\_

T.D.: 59

SAMPLE DESCRIPTION

Well # JOH-A-8-83 TD 59 Examined by: ERB Date 10/5/83

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

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

Interval	Rock Type	Color	Texture			Quartz	Feldspar	Glaucophane	Phosphate	Calcite	Shell Fragm	Mica	Pyrite	Lignite	Chalcedony	Amethyst	Rose Quartz	Tourmaline	Siderite	Limestone	Dolomite	Fossils	Fe-Stain	Manganese Oxides	Bluish Gray	Remarks	
			Grain Size	Grain Shape	Sorting																						
0-4↓	Clay sd	yellowish gray 5Y 7/2	F-M	A	A																	M	M				
4-9↓	Clay coarse sd	grayish yellow 5Y 8/4	F-C	A	A	C																	R	M			
9-14↓	as below	pale yellowish orange 10YR 8/6	C-M	SA	A	C																		R			
14-19↓	as below	grayish yellow 5Y 8/4	F-C	SA	A	C																		R		Kynite rare	
24-29↓	coarse slightly clay sd	yellowish gray 5Y 7/2	C-M	SA	A	C									R											pink	
29-34↓	coarse slightly clay sd	yellowish gray 5Y 7/2	C-M	SA	A	C																		R			
34-39↓	aa	aa	C-M	SA	A	C																					
33↑	clay sd	very light gray N8.5	F-M	SA	A	M						R													M	T	
38↑	clay sd	yellowish gray 5Y 7/2	F-M	SA	A	M				R																M	T
43↑	very shly clay	as below	F-M	SA	A	M																				M	T R Kynite rare
49↑	shly clay	very light gray N8	F-M	SA	A	R																				C	T R
54↑	very shly clay	very light gray N8	F-M	SA	A	R																				M	T
59↑	aa	aa	F-M	SA	A	R																				M	T
19-24↓	as 24-29																										
0-39	surrounds																										
39-	bottom unit R																										

Johnston County  
site ~~#2~~ #3

