

HAR-A-4-83



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 Bruce Home :

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

Bruce O. Home
Land Owner (or)
Person in charge of the land

23 June 1983
Date

| INTE | DRILLING REMARKS | DESCRIPTION: CIRCULATED RETURNS | Sample | CIRCULATION REMARKS | DESCRIPTION: FLIGHT RETURNS | Sample |
|----------------|---------------------------|---|--------|----------------------|---|---------------|
| ① 5 0-4 | easy 25 sec | orange sand | X | spin out | | |
| 5-10 4-9 | aa 30 sec | most orange gray sand | X | aa | | |
| 10-15 9-14 | aa 25 sec | musty gray sand | X | aa | ab | X |
| 15-20 14-19 | tougher → 35 sec | musty gray - to brownish gray sand | X | aa | ab | X |
| 20-25 19-24 | tougher 70 sec | long spin for returns mushy brown sand with lumps of reddish brown clay | X | aa | grayish brown sand w/ lumps of green & red clay, yellowish orange streaks present in yellowish orange sandy streak | X bottom foot |
| 25-30 24-29 | aa 55 sec | Green water then mushy grayish brown sand and clay | X | aa | Greenish gray sand mixed in with same as below w/ olive clay | X |
| 30-35 29-34 | easy 40 sec | no return | | Screen in | ab | X |
| 35-40 34-39 | easy 35 sec | no return | | aa | 1" Green & red clay orange yellow and gray sand mixed w/ blobs of green & red clay | X |
| 40-45 39-44 | Tougher → 45 sec | water and mushy sand brownish gray | X | aa | orange yellow & gray streaks of sand Green & red mottled clay mixed w/ sand | X |
| 44-49 | stop → | baseament? stop | X | Chatter w | orange yellow & gray streaks of sand Green & red mottled clay mixed w/ sand | X |
| 49-54 | | | | | | |
| 54-59 | | | | | | |
| 59-64 | | | | | | |
| 64-69 | ① 10 th flight | put on and screwed down 1 foot | | before auger refusal | | |
| 69-74 | | | | | | |
| 74-79 | | | | | | |
| 79-84 | | | | | | |
| 84-89 | | | | | | |
| 89-94 | | | | | | |
| 94-99 | aa- | as above | | | | |
| 99-104 | ab - | as below | | | | |

Well: HAR-A-4-B3

Spud: _____

CEMENT: _____

Elev.: _____

DATE: 8/17/85

Plug: _____

SAND: _____

T.D.: _____

Harnett County

