

| INTER | DRILLING REMARKS | DESCRIPTION: CIRCULATED RETURNS | SAMPLE | CIRCULATION REMARKS | DESCRIPTION: FLIGHT RETURNS | SAMPLE |
|--------|--------------------------------------|---|--------|-----------------------------------|--|------------------------|
| 0-4 | Easy - 30 sec | On to Ben med <u>sd</u> | | Dry - mod return | | |
| 4-9 | aa | On <u>sd</u> w/ more cl | | aa | | |
| 9-14 | aa | aa | X | aa | | |
| 14-19 | aa | aa | | Slightly moist mod return | | |
| 19-24 | aa | aa, w/ more pinkish cl at 24' | | aa | | |
| 24-29 | aa | Pinkish cre <u>sd</u> w/ com wh cl stringer | X | moist - mod return | | |
| 29-34 | aa | lt Gray sdy <u>cl</u> | X | aa | | |
| 34-39 | aa | aa | | Poor Returns | | |
| 39-44 | aa | Pinkish clay med to cre <u>sd</u> | X | moist Mod Returns | | |
| 44-49 | aa | Pink cre <u>sd</u> | | Wet - abd ✓ return water table | | |
| 49-54 | aa | aa. | X | wet Poor returns | | |
| 54-59 | aa | Pinkish Ben cre <u>sd</u> | | Wet - mod returns | | |
| 59-64 | aa | — — | | No Sample Returns | | |
| 64-69 | aa | — — | | aa | | |
| 69-74 | aa | — — | | aa | 70-80 G log 7cl | |
| 74-79 | aa | lt Pinkish Gray cre <u>sd</u> | | Wet - abd return | | |
| 79-84 | aa | aa ; slightly darker | | Wet - poor return | 85' med gray (stiff) dry cl w/ abd mild gr gly | 86-96 G log → cl |
| 84-89 | aa | aa | X | Wet - mod return | 80-85' lt gray sticky sdy clay | X |
| 89-94 | Hard 91-94 ft | aa | | aa | aa on ash lower | |
| 94-99 | Hard 94-99 5 min | aa | | aa | flight 2 bit | |
| 99-104 | Hard 99-102 Easy 102-104 5 min | | | | | |

Well: SG-A-3-83 Spud: 12:00 pm CEMENT: 2 1/2 bags Elev.: 313 ft
DATE: 6/28/83 Plug: 3:30 pm SAND: 1 1/2 trailers T.D.: 104 ft

Microscopic Description : SC-A-3-83

7/20/83

RUS

10-15; D Sd : mod redsh or (10R 6/6); m gr, sbang,
mod w/ srt qtz; mmr cl, qtz pbl, f clr
mic; v r lig frags

25-30; D cly Sd : mod or pk (10R 7/4); m gr, sbang, mod
srt qtz; com cl & qtz pbl, mmr f clr
mic

30-35; D cly Sd : grysh or pk (10R 8/2); m gr, sbang,
mod srt qtz; com cl & qtz pbl; mmr
f clr mic; v r Fe agg

40-45; D Sd : grysh pk (5R 8/2); m-f gr, sbang,
mod srt qtz; mmr f clr mic; feld &
cl

50-55; D Sd aa

85-90; D graw Sd : grysh pk (5R 8/2); v cse gr, sbang,
poorly srt qtz; abd ang qtz & feld pbl;
mmr cl & mic

85; F Cl : grysh pk (5R 8/2); mmr f gr qtz; Fe str, &
f clr mic; v sm lig frags

85-90; F cly Sd : grysh pk (5R 8/2); m-f gr, sbang, mod
srt qtz; com f clr mic, v qtz pbl



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 Mr. Burns :
Z.V. Pate, Inc.

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,

Richard V. Smith
Driller-in-Charge

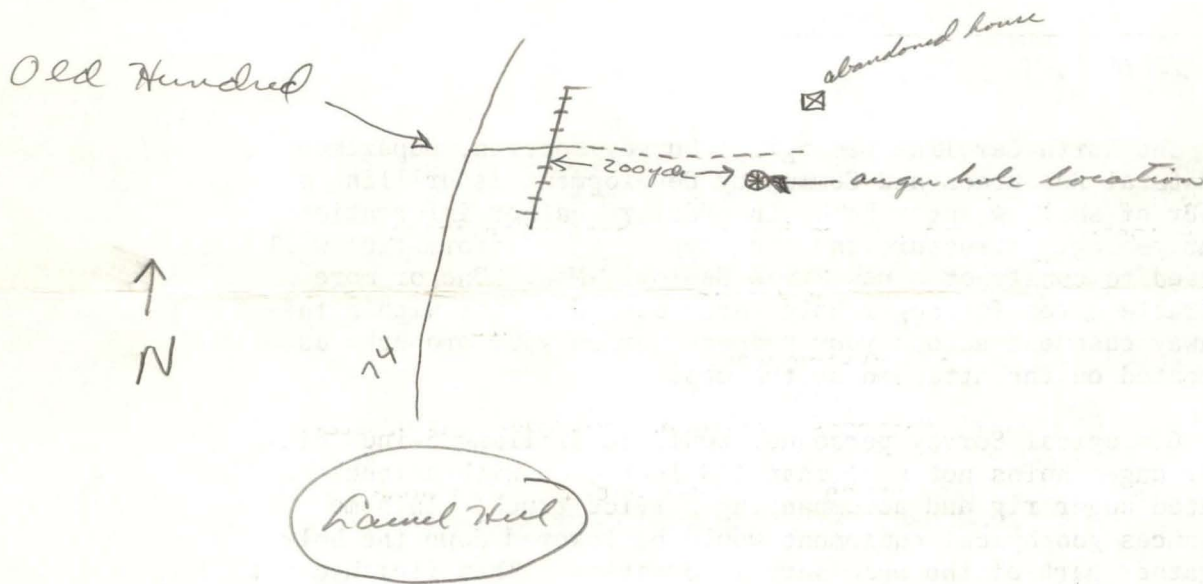
Z.V. Pate, Inc. by David J. Burns
Land Owner (or)
Person in charge of the land

6/17/83
Date

Drilled: SC-A-3-83, 6/28/83
Site #1 on back

R.V. Smith
N.C. Geological Survey
4100 Reedy Creek Road
Raleigh, NC 27607

Site # 1 : SC-A-3-83, drilled 6/28/83



Site # 2 : not drilled

