

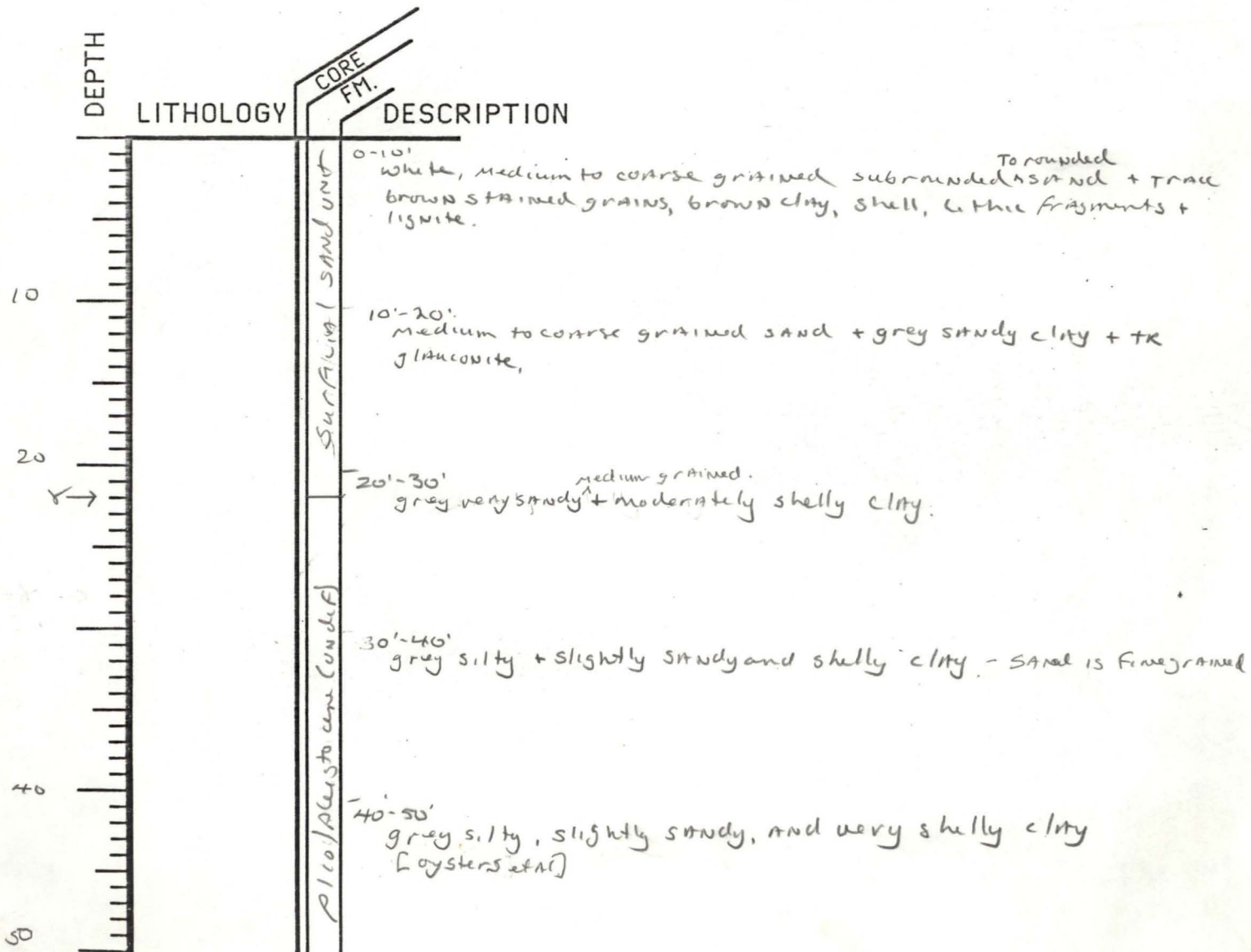
WELL CODE BW-T-9-77

ELEVATION 40'

T.D. 111'

NOTE - SAMPLES ARE NOT WASHED.

Re-examined + annotated on 7/25/90 JS



59.0

50'-60'  
Lithology as above

60'-70'  
shelly, chalky white skeletal limestone + Lg oysters, TR phos +  
(This sample washed for biostrat) - ELP SSP C16SSP SPN,  
Limestone in this sample is not Castle  
Hayne. - look at included shells.

70'-80'  
brown fine grained sandstone + abundant light grey coarse +  
fine grained sand. shell + bryozoan fragments common.  
TR pyrite + phosphorite

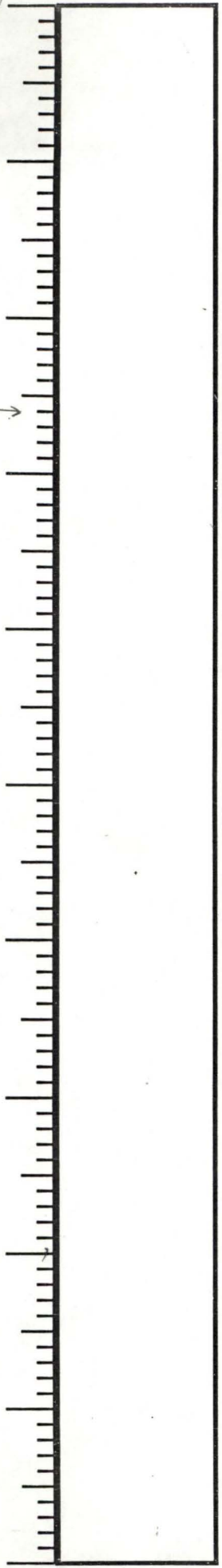
80-90  
light grey medium to coarse grained sand + TR shell, clay,  
limestone, pyrite, + sandstone from above.

90-100  
Lithology similar to above with more ? coarse elements +  
Lg phosphorite grains + TR lt grey limestone

100'-111'  
predom. lt brown med-fine grained sandstone.

Please refer to A10/Plasterboard (undist.)

60  
70  
80  
90  
100  
110



# BR-T-9-77

34-05-27  
78-01-03

Sta. #4  
BW-T-9-77

NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES  
DIVISION OF ENVIRONMENTAL MANAGEMENT  
GROUNDWATER SECTION  
P.O. BOX 27687 - RALEIGH, N.C. 27611

BR 2076

2

WELL RECORD

DRILLING CONTRACTOR \_\_\_\_\_ REG. NO. \_\_\_\_\_ WELL CONSTRUCTION PERMIT NO. \_\_\_\_\_

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: Boiling Springs Lakes County: Brunswick  
off of Boiling Springs Rd. near Council Rd. (Road, Community or Subdivision and Lot No.)  
Map Angle No. EE 32 U2

2. OWNER: GWS

3. ADDRESS: Raleigh

4. TOPOGRAPHY: draw, valley, slope, hilltop, flat (circle one)

5. USE OF WELL: Test DATE: 7-26-77

6. DOES THIS WELL REPLACE AN EXISTING WELL? \_\_\_\_\_

7. TOTAL DEPTH: 23 RIG TYPE OR METHOD: mud rotary

8. FORMATION SAMPLES COLLECTED: YES \_\_\_\_\_ NO \_\_\_\_\_

9. CASING: Depth Inside Dia. Wall thick. type  
From 0 to 18 ft 4 Blk. iron

10. GROUT: Depth Material Method  
From 0 to 23 ft concrete grout Hyd.

11. SCREEN: Depth Dia. Type & Opening  
From 18 to 23 ft 4 14 gauge galv.

12. GRAVEL: Depth Size Material  
From \_\_\_\_\_ to \_\_\_\_\_ ft \_\_\_\_\_

13. WATER ZONES (depth): \_\_\_\_\_

14. STATIC WATER LEVEL: 11.62 ft. above top of casing  
Casing is 400 ft. above land surface ELEV: \_\_\_\_\_

15. YIELD (gpm): 1/2 GPM METHOD OF TESTING: AIR LIFT

16. PUMPING WATER LEVEL: \_\_\_\_\_ ft after \_\_\_\_\_ hours  
at \_\_\_\_\_ gpm.

17. CHLORINATION: Type HTH Amount 1/2 cup

18. WATER QUALITY: \_\_\_\_\_ TEMPERATURE (°F) 76°F

19. PERMANENT PUMP: Date Installed \_\_\_\_\_  
Type \_\_\_\_\_ Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
Make \_\_\_\_\_ Intake Depth \_\_\_\_\_  
Airline Depth \_\_\_\_\_

20. HAS THE OWNER BEEN PROVIDED A COPY OF THIS RECORD AND INFORMED OF THE DEPARTMENT'S REQUIREMENTS AND RECOMMENDATIONS? \_\_\_\_\_

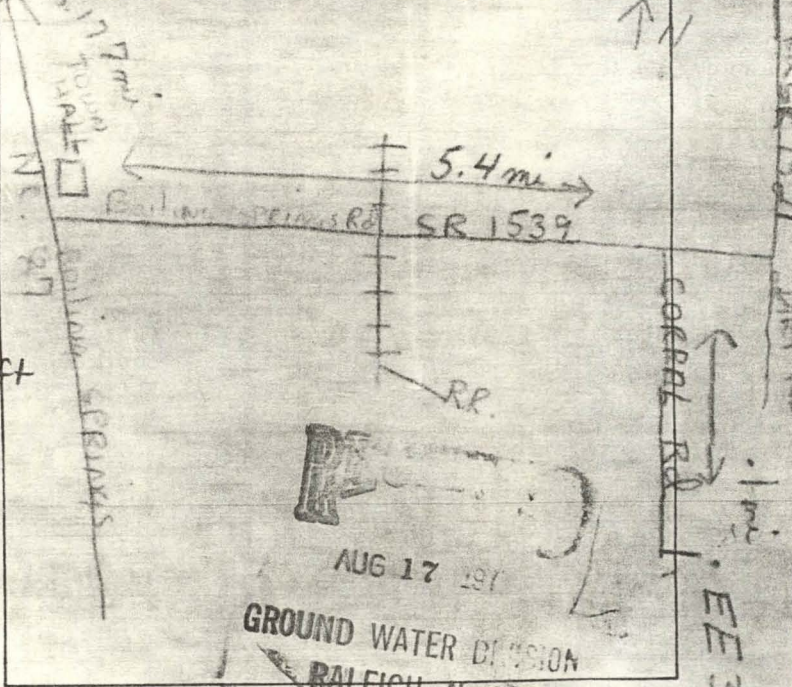
21. REMARKS This well was pulled out & cemented up. P.H. 6.9 Hardness 51.3

I do hereby certify that this well was constructed in accordance with N.C. Well Construction Regulations and Standards and that this well record is true and exact.

Timothy Hill  
SIGNATURE OF CONTRACTOR OR AGENT DATE

| DEPTH  |     | FORMATION DESCRIPTION |
|--------|-----|-----------------------|
| FROM   | TO  |                       |
|        |     | 4.00 ALS.             |
| 7 5/8" | 10' | 4" csg.               |
| 5 3/8" | 18' | 18'                   |
| 23'    | 23' | 14 gauge screen       |

LOCATION SKETCH (Show distance to numbered roads, or other map reference points)



BOILING SPRINGS 4 EE 32 U-1

# BR-T-9-77

34-05-27

78-01-03

Sta. #4

NORTH CAROLINA

DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES

GROUNDWATER SECTION

BR2075

EE3241

Lithologic Log

Well No.:

Field \_\_\_\_\_

Office \_\_\_\_\_

USGS \_\_\_\_\_

Log by: Timmy Hill Date 7-20-77 County BRUNSWICKLocation, Town Boiling Springs LakesOwner GWS Driller Tim Hill Date Drilled 7-20-77

Depth \_\_\_\_\_ ft.; Diam. \_\_\_\_\_ in.; Cased to \_\_\_\_\_ ft.; Elev. \_\_\_\_\_ ft. above MSL

Cuttings \_\_\_\_\_ Elec. log \_\_\_\_\_ Gamma log \_\_\_\_\_

| Description  | Depth (feet) |     | Thickness (feet) |            |
|--|--------------|-----|------------------|------------|
|  | from         | to  |                  | DRILL RATE |
| Brown Fine to <del>med</del> sand - w/ light & dark clay at 8' <sup>starting</sup> | 0            | 10  | 2m               | 14S        |
| Light gray clay w/ Fine to med Brown sand  | 10           | 20  | 1m               | 33S        |
| Light gray clay w/ shell fragments + very fine sand                                | 20           | 30  |                  | 28S        |
| SAME AS ABOVE  | 30           | 40  | 1m               | 03S        |
| SAME AS ABOVE  | 40           | 50  |                  | 57S        |
| unconsolidated shell w/ light gray clay + fine sand                                | 50           | 60  | 1m               | 25S        |
| limestone w/ shell fragments - gray clay at 75'-78' <sup>found at</sup> 74'-75'    | 60           | 70  | 19m              | 11S        |
| limestone w/ gray clay, shell fragments + sand + sandstone                         | 70           | 80  | 32m              | 03S        |
| sandstone, shell, gray clay + fine sand  | 80           | 90  | 4m               | 15S        |
| SAME AS ABOVE  | 90           | 100 | 2m               | 04S        |
| gray clay w/ sandstone layers + shell  | 100          | 110 | 9m               | 15S        |

RECEIVED

AUG 17 1977

GROUND

**BR-T-9-77**

EE 32, v-1

BOILING SPRING LAKES

STA. #4

BRUNSWICK COUNTY

