

NORTH CAROLINA DEPARTMENT OF NATURAL AND ECONOMIC RESOURCES

OFFICE OF WATER AND AIR RESOURCES

GROUND WATER DIVISION

P. O. BOX 27687 - RALEIGH, N. C. 27611

**WELL RECORD**

BR1887

DRILLING CONTRACTOR Sydnor Hydrodynamics, Inc. REG. NO. 144 WELL CONSTRUCTION PERMIT NO. 1782

1. WELL LOCATION: (Show a sketch of the location on back of form)  
Nearest Town: Southport, N. C. County: Brunswick

2. OWNER: County of Brunswick (Road, Community or Subdivision and Lot No.)  
Production Well # 4

3. ADDRESS: Southport, N. C.

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

5. USE OF WELL: Commercial DATE: 9/17/74

6. DOES THIS WELL REPLACE AN EXISTING WELL? No

7. TOTAL DEPTH: 156 RIG TYPE OR METHOD: Rotary Mud

8. FORMATION SAMPLES COLLECTED:  YES No. of Bags 16

9. CASING:		Inside	Wall thick or weight / ft.	Type
From	Depth to	Diam.		
<u>+1</u>	<u>59</u>	<u>20"</u>	<u>78.60</u>	<u>Steel</u>
<u>+2</u>	<u>60</u>	<u>10"</u>	<u>40.48</u>	<u>Steel</u>
<u>142</u>	<u>149</u>	<u>10"</u>	<u>40.48</u>	<u>Steel</u>

10. GROUT:		Material	Method
From	Depth to		
<u>0</u>	<u>59</u>	<u>Cement</u>	<u>Pumped</u>

11. SCREEN:		Diam.	Type and Opening
From	Depth to		
<u>60</u>	<u>142</u>	<u>10"</u>	<u>Stainless Steel # 30</u>

12. GRAVEL:		Size	Material
From	Depth to		
<u>0</u>	<u>149</u>	<u>#2</u>	<u>Morie</u>

13. WATER ZONES (depth): 60' - 142'

14. STATIC WATER LEVEL: 9'6" ft. <sup>above</sup> (below) top of casing.  
Casing is 2 ft. above land surface. ELEV. \_\_\_\_\_  
DATE MEASURED: 9/10/74

15. YIELD (gpm): 350 METHOD OF TESTING: Turbine

16. PUMPING WATER LEVEL: 55'9 3/4" ft. after 48 hours  
at 350 gpm.

17. CHLORINATION: Type HTH Amount 10 lbs.

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

19. PERMANENT PUMP (Show a sketch of well head on back of form)  
Date Installed \_\_\_\_\_ type \_\_\_\_\_ Make \_\_\_\_\_  
Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
Intake Depth \_\_\_\_\_ Airline Depth \_\_\_\_\_

20. HAVE YOU INFORMED THE WELL OWNER OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? \_\_\_\_\_

21. REMARKS: \_\_\_\_\_

DRILLING LOG		
DEPTH		FORMATION DESCRIPTION
FROM	TO	
0	17	Brown & gray sand
17	21	Yellow sandy clay
21	26	Shells
26	46	Gray clay
46	58	Castle Hayne rock
58	61	Hard Castle Hayne rock
61	67	Soft Castle Hayne rock
67	82	Coarse gray Castle Hayne rock
82	96	Brown Castle Hayne
96	111	Fine gray Castle Hayne
111	126	Brown fine Castle Hayne
126	156	Brown Castle Hayne
		Mix with brown sandy clay

WELL PERMIT  
OCT 2 1974  
GROUND WATER DIVISION  
RALEIGH, N. C.

I do hereby certify that this well record is true and exact.

SIGNATURE OF CONTRACTOR OR AGENT \_\_\_\_\_ DATE \_\_\_\_\_



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GROUND WATER DIVISION

P. O. BOX 27687 - RALEIGH, N. C. 27611

**WELL RECORD**

BR 1887

DRILLING CONTRACTOR Sydnor Hydrodynamics, Inc. REG. NO. 144 WELL CONSTRUCTION PERMIT NO. 1782

1. WELL LOCATION: (Show a sketch of the location on back of form)  
Nearest Town: Southport, N. C.

County: Brunswick  
Quadrangle No. G6-33 T-1

2. OWNER: County of Brunswick (Road, Community or Subdivision and Lot No.)

Production Well # 4

3. ADDRESS: Southport, N. C.

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

5. USE OF WELL: Commercial DATE: 9/17/74

6. DOES THIS WELL REPLACE AN EXISTING WELL? No

7. TOTAL DEPTH: 156 RIG TYPE OR METHOD: Mud Rotary

8. FORMATION SAMPLES COLLECTED:  YES No. of Bags 16

9. CASING:

From	Depth	ft.	Inside Diam.	Wall thick or weight/ft.	Type
<u>+1</u>	<u>to 59</u>	<u>ft.</u>	<u>20"</u>	<u>78.60</u>	<u>Steel</u>
<u>+2</u>	<u>60</u>		<u>10"</u>	<u>40.48</u>	<u>Steel</u>
<u>142</u>	<u>149</u>		<u>10"</u>	<u>40.48</u>	<u>Steel</u>

10. GROUT: 0 to 59 ft. Cement Method Pumped

11. SCREEN: 60 to 142 ft. 10" Stainless Steel  
# 30

12. GRAVEL: 0 to 149 ft. #2 Morie

13. WATER ZONES(depth): 60' - 142'

14. STATIC WATER LEVEL: 9'6" ft. above top of casing.  
Casing is 2 ft. above land surface. ELEV. \_\_\_\_\_  
DATE MEASURED: 9/10/74

15. YIELD(gpm): 350 METHOD OF TESTING: Turbine

16. PUMPING WATER LEVEL: 55'9 3/4" ft. after 48 hours  
at 350 gpm.

17. CHLORINATION: Type HTH Amount 10 lbs.

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

19. PERMANENT PUMP (Show a sketch of well head on back of form)  
Date installed \_\_\_\_\_ Type \_\_\_\_\_ Make \_\_\_\_\_  
Capacity \_\_\_\_\_ (gpm) HP \_\_\_\_\_  
Intake Depth \_\_\_\_\_ Airline Depth \_\_\_\_\_

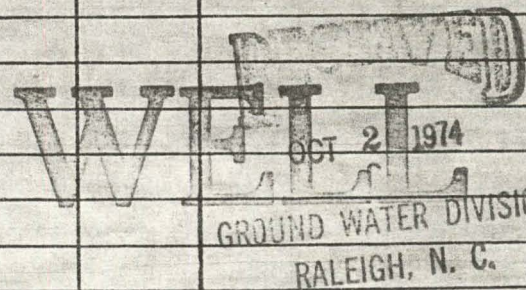
20. HAVE YOU INFORMED THE WELL OWNER OF THE DEPARTMENTS REQUIREMENTS AND RECOMMENDATIONS? \_\_\_\_\_

21. REMARKS: \_\_\_\_\_

DRILLING LOG

DEPTH		FORMATION DESCRIPTION
FROM	TO	
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		Mix with brown sandy clay

BR-P-9-74



I do hereby certify that this well record is true and exact.

SIGNATURE OF CONTRACTOR OR AGENT DATE



WELL HEAD COMPLETION: Draw a sketch of the well head showing casing, pump piping, seals, vents, access port, grout, and enclosure.

# BR-P-9-74

WELL LOCATION: Draw a location sketch showing the direction and distance of the well to at least two (2) nearby reference points such as roads, intersections and streams. Identify roads with State Highway road identification numbers.

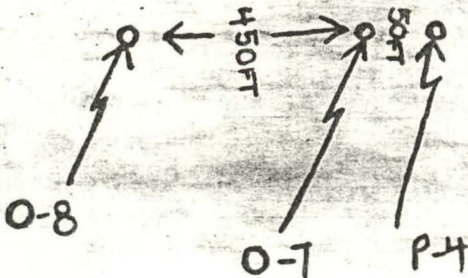


Rt 1500

Rt 211

2.5 Miles

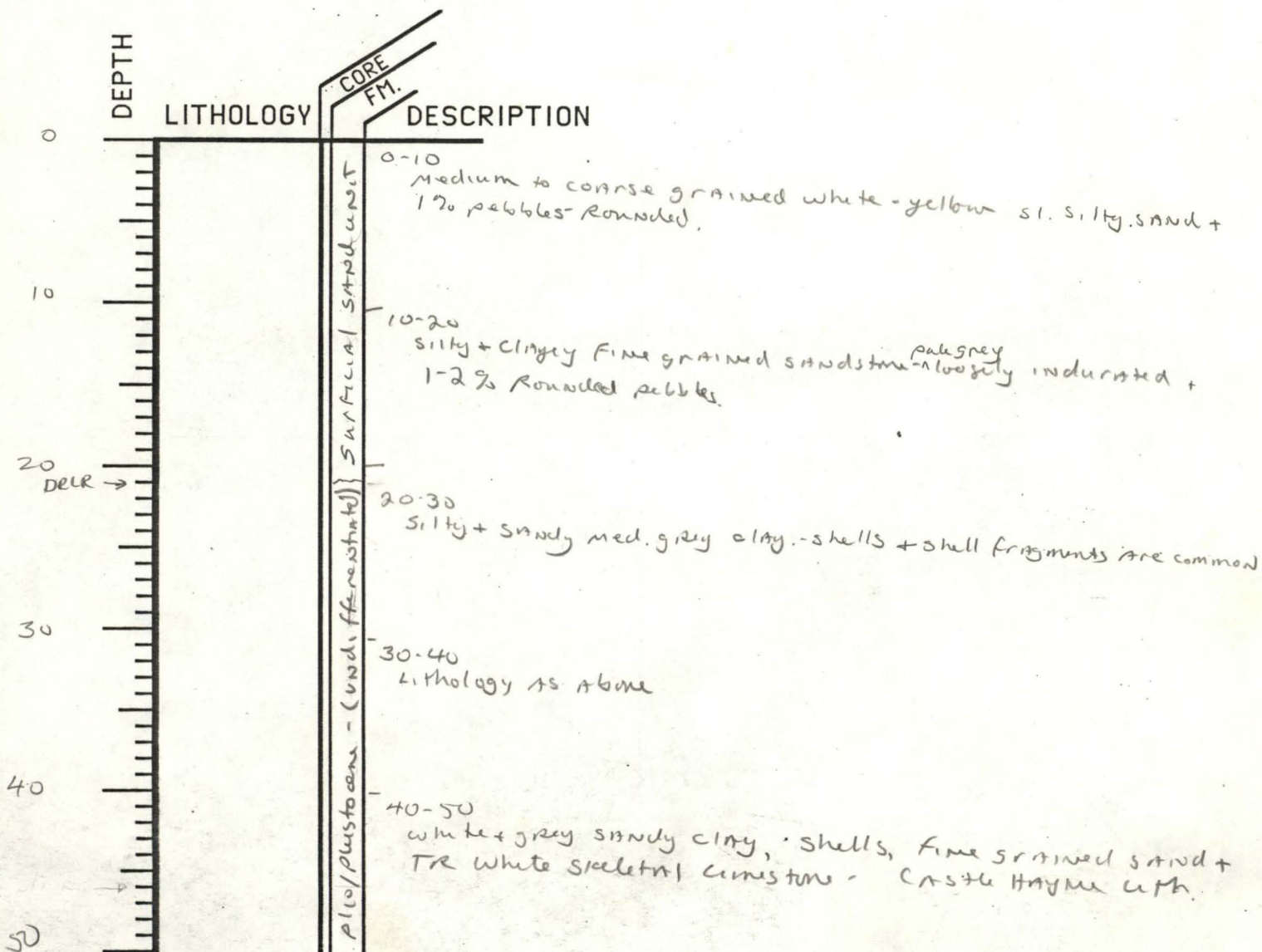
1.2 Miles



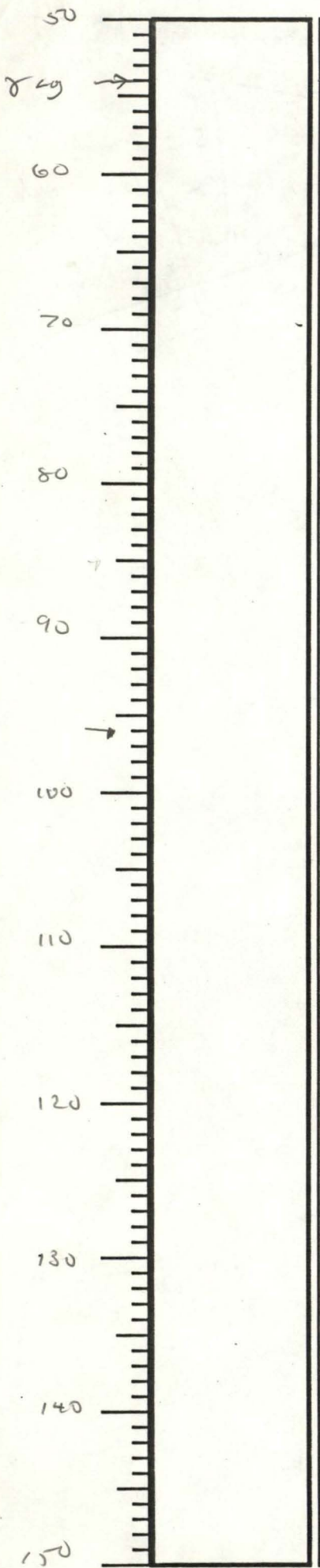
WELL CODE BW-P-9-74

ELEVATION 45'

T.D. - 156







CASE HISTORY

50-60  
white skeletal limestone - most  
clips glauconite or phosphorite bearing

60-70  
white bryozoa skeletal limestone + TR phosph white pebbles

70-80  
Lithology AS ABOVE.

80-90  
medium grey sandy + slightly glauconitic skeletal limestone.  
+ TR phosphorite pebbles

90-100  
Lithology AS ABOVE

100-110  
pale grey very sandy skeletal limestone + 5% medium grained  
sandstone with moderate to heavy calcareous cement. TR shells +  
phosphorite pebbles + pale grey clay

Pebbles

110-120  
medium grained sandstone with heavy - moderate calcareous  
cement + TR shell fragments

120-130  
Lithology AS ABOVE - sandstone med. to fine grained

130-140  
Lithology AS ABOVE - TR serpulid shells.

140-150  
Lithology AS ABOVE - 1% oyster shell fragments

150-156  
- medium grey sandy calcareous clay → This clay with hole + (Platy bed)