

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

BR 1963
Bw-P-15-74

DRILLING CONTRACTOR Sydnor Hydrodynamics, Inc. REG. NO. 144 WELL CONSTRUCTION PERMIT NO. 1857

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

County: Brunswick
Quadrangle No. 6633
Production Well # 6 L-1

2. OWNER: County of Brunswick

3. ADDRESS: Southport, N. C.

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

5. USE OF WELL: Public-County DATE: 12/09/74

6. DOES THIS WELL REPLACE AN EXISTING WELL? NO

7. TOTAL DEPTH: 177' RIG TYPE OR METHOD: Rotary

8. FORMATION SAMPLES COLLECTED: XXX YES No. of Bags 18

9. CASING:

From	Depth	ft.	Inside Diam.	Wall thick. or weight / ft.	Type
+1	62		20" OD	78.60	Steel
+2	160		10" ID	40.48	Steel
+2	156		1"	SCH. 10	Stl. Steel

10. GROUT:

From	Depth	ft.	Material	Method
0	62		Cement	Pumped

11. SCREEN:

From	Depth	ft.	Diam.	Type and Opening
70	152		10"	UOP Johnson Stainless Steel #30 Slot

12. GRAVEL:

From	Depth	ft.	Size	Material
0	177		#2	Morie Sand

13. WATER ZONES(depth): 70' - 152'

14. STATIC WATER LEVEL: 9 ft. above top of casing.
Casing is 2 ft. above land surface. ELEV. _____
DATE MEASURED: 12/03/74

15. YIELD(gpm): 500 METHOD OF TESTING: Turbine Pump

16. PUMPING WATER LEVEL: 25' 7 1/2" ft. after 48 hours
at 500 gpm.

17. CHLORINATION: Type HTH Amount 2 1/2 lbs.

18. WATER QUALITY: Attach Analysis 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	2	Gray Sand
2	29	Black and Gray Sand mix, Tree Stump
29	61	Gray Sandy Clay and Shells M.
61	63	Rock
63	72	Shells and Gray Castlehayne
72	102	Light and Dark Gray Castlehayne
102	105	Hard Gray Castlehayne
105	143	Brown Castlehayne
143	160	Gray Castlehayne and Clay Mix
160	177	Gray Clay and Rock Streaks

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PERMIT

WELL

JAN 7 1975

GROUND WATER DIVISION
RALEIGH, N. C.

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

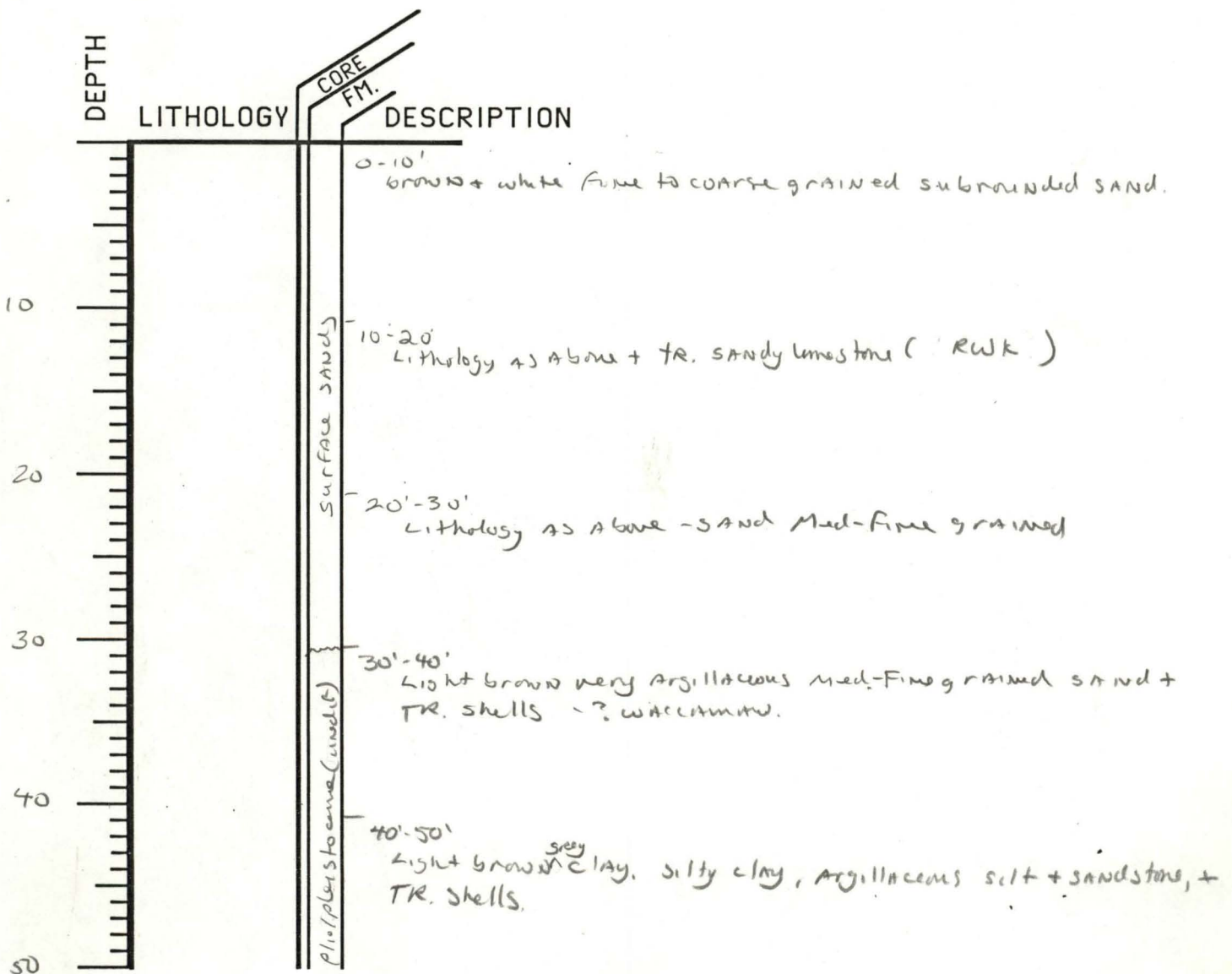
[Signature] 1-6-75
SIGNATURE OF CONTRACTOR OR AGENT DATE

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ELEVATION 50'

T.D. 177'

NOTE: SPT RESISTIVITY LOGS -
NO LOGS
SAMPLES IN ENVELOPES -
NOT WASHED.



50

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50'-60'
Argillaceous medium to fine shelly sand +
FR to blue/gray moldic L.S. (WAC + ?BB?)

60

Driller →

60'-70'
White + Lt. gray sandy moldic L.S. + corals shells

70

70'-80'
off white moldic limestone + abundant Lt. brown sparry lime

80

80'-90'
Lithology as above + tr. phosphonite.

90

90'-100'
Lithology as above

100

100'-110'
Light gray sandy moldic limestone + abundant corals lith.

110

110'-120'
Pale gray (with some orange staining) sandy moldic limestone.

120

120'-130'
Lithology as above.

130

130'-140'
Lithology as above

140

140'-150'
Lithology as above

150

CAS + 6 11/11/74

Reed

150

150-160

Light gray argillaceous fine grained sand.

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160

160-170

dark gray, v. argillaceous fine grained sand.

170

170-177

180

