

# State Well Report

## Part 1 - Driller's Log

Mississippi Department of Environmental Quality  
Office of Land and Water Resources  
P.O. Box 10631  
Jackson, MS 39289-0631  
(601)961-5210  
(601)354-6938 (fax)

County: DeSoto County  
Permit #: 16356  
Driller: Donald Smith Co  
Date drilling completed: 4/07/07

For Office Use Only:  
Aquifer: \_\_\_\_\_  
Well #: F-142  
L. S. Elevation: \_\_\_\_\_  
E-log #: \_\_\_\_\_

State Law requires that this report be prepared by the license holder responsible for the work and filed with the Department at the above address within 30 days of completion of drilling of the well or borehole.

Information on Well Owner (Landowner if borehole is not for a water well)	Well or Borehole Location
Owner Name <u>Horn Lake Water Assoc</u>	Latitude: <u>34° 55' 38" N</u> Longitude: <u>90° 00' 18" W</u>
Mailing Address: _____ <u>PO Box 151</u> <u>Horn Lake MS 38637</u> City State Zip Code	Method of Lat/Long (circle one): Conventional Survey, USGS quad <u>Hand-held GPS</u> , Survey-grade GPS ____ 1/4 ____ 1/4 Sec <u>12</u> Twn <u>25</u> Rng <u>8W</u>
Telephone No. (____) _____	Distance _____ Miles Direction _____ of _____ Nearest Town _____

**Well / Borehole Data**

Date drilling started: 2/19/07 Date drilling completed: 4/7/07 Hole depth: 427' Hole diameter: 22"

Location of the source of any surface water used for drilling: \_\_\_\_\_  
Method of dosing and volume of Chlorine used in drilling and development: Potable water used

Logs run (circle all applicable): No log run Electric Gamma Ray Density Sonic Neutron Other: \_\_\_\_\_  
Name of organization running log(s): MSDEC

Purpose of borehole (check one): Water Well  Geotechnical/Geological Investigation \_\_\_\_\_ Ground Source Heat Pump \_\_\_\_\_  
Seismic Survey \_\_\_\_\_ Other (describe) \_\_\_\_\_  
*If drilling is not related to water well construction, skip the remainder of this block*

Purpose of Well (check one): Home \_\_\_\_\_ Industrial \_\_\_\_\_ Public Supply \_\_\_\_\_ Irrigation  Fish Culture \_\_\_\_\_ Other: \_\_\_\_\_

If a flowing well, method of flow regulation: Valve \_\_\_\_\_ Other (describe) \_\_\_\_\_

Static Water Level: 129' feet above or below (circle one) land surface Date measured: 3/1/07

Method of Measurement (circle one) steel tape electric tape air line other: \_\_\_\_\_

Well depth: 425 Well grouted to a depth of 340 feet Type of grout (circle one): Neat Cement Bentonite Mix

Casing length: 340 feet Casing diameter: 20 inches Type of casing: steel ASTM/B

Screen length: 80 feet Screen diameter: 14 inches Type of screen: SS, wire wrap

Screen slot size: .030 inches Setting depth: From 345 feet to 425 feet

Type of completion (circle all applicable): Gravel packed Underreamed Telescoped Open hole Natural Development  
Other (describe): 22"

Top of lap pipe or reduction in casing: 285 feet. *If telescoped or more than one screen, describe on next page*

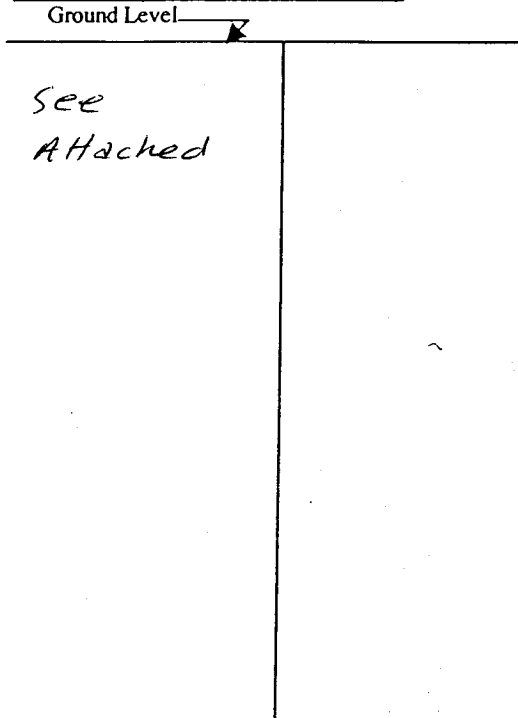
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F-142

The sketch below only required for water wells

Description of formations encountered must be provided for all wells and boreholes, unless specifically exempted by regulations

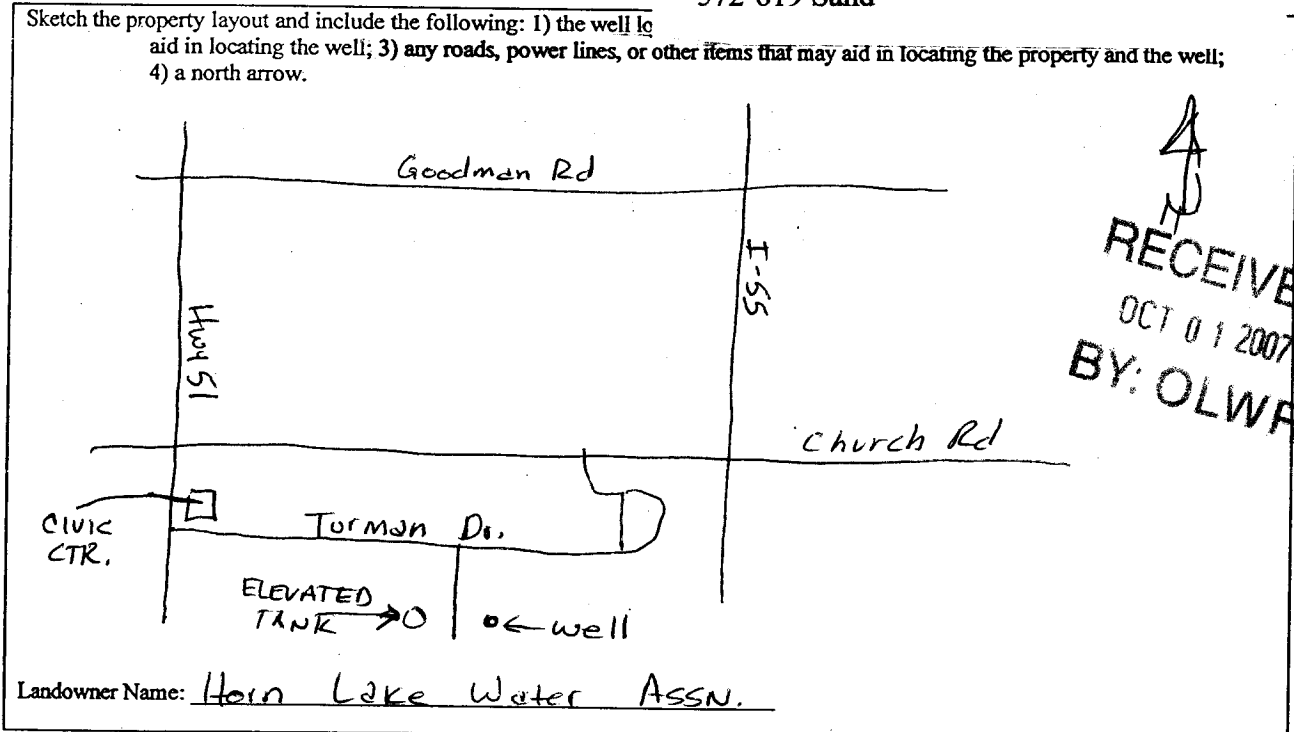
If well telescopes, show depths on sketch.



Description of Formations Encountered	From (depth)	To (depth)
See Attached	Ground Level	
0-20 Red Clay		
20.52 Red Clay Sand + Shell		
52-70 White Clay		
70.-210 Sand		
210-266 Sand + Clay Streaks		
266-286 Clay		
286-295 Blue Sand		
295-315 Sandy		
315-335 Sandy Sand		
335-355 Sand		
355-375 Mostly Sand / White Clay Streaks		
375-395 Sandy with White Clay Streaks		
395-458 Sandy		
458-471 Blue Clay Streaks Sand		
471-496 Sand + Lignite		
496-508 Clay + Lignite		
508-564 Sand + Lignite		
564-572 Clay		
572-619 Sand		

If more than one screen, show location of each on sketch

Sketch the property layout and include the following: 1) the well location in locating the well; 3) any roads, power lines, or other items that may aid in locating the property and the well; 4) a north arrow.



Form: OLWR-SWR-1A

I certify that the well/borehole was drilled, constructed, and completed in accordance with all applicable requirements of the Mississippi Department of Environmental Quality and the Mississippi Department of Health regulations, if applicable, and state laws.

Donald Smith      0-767      9/26/07      Donald Smith

Print Name of Responsible Licensee and License No.

Date

Signature of Licensee

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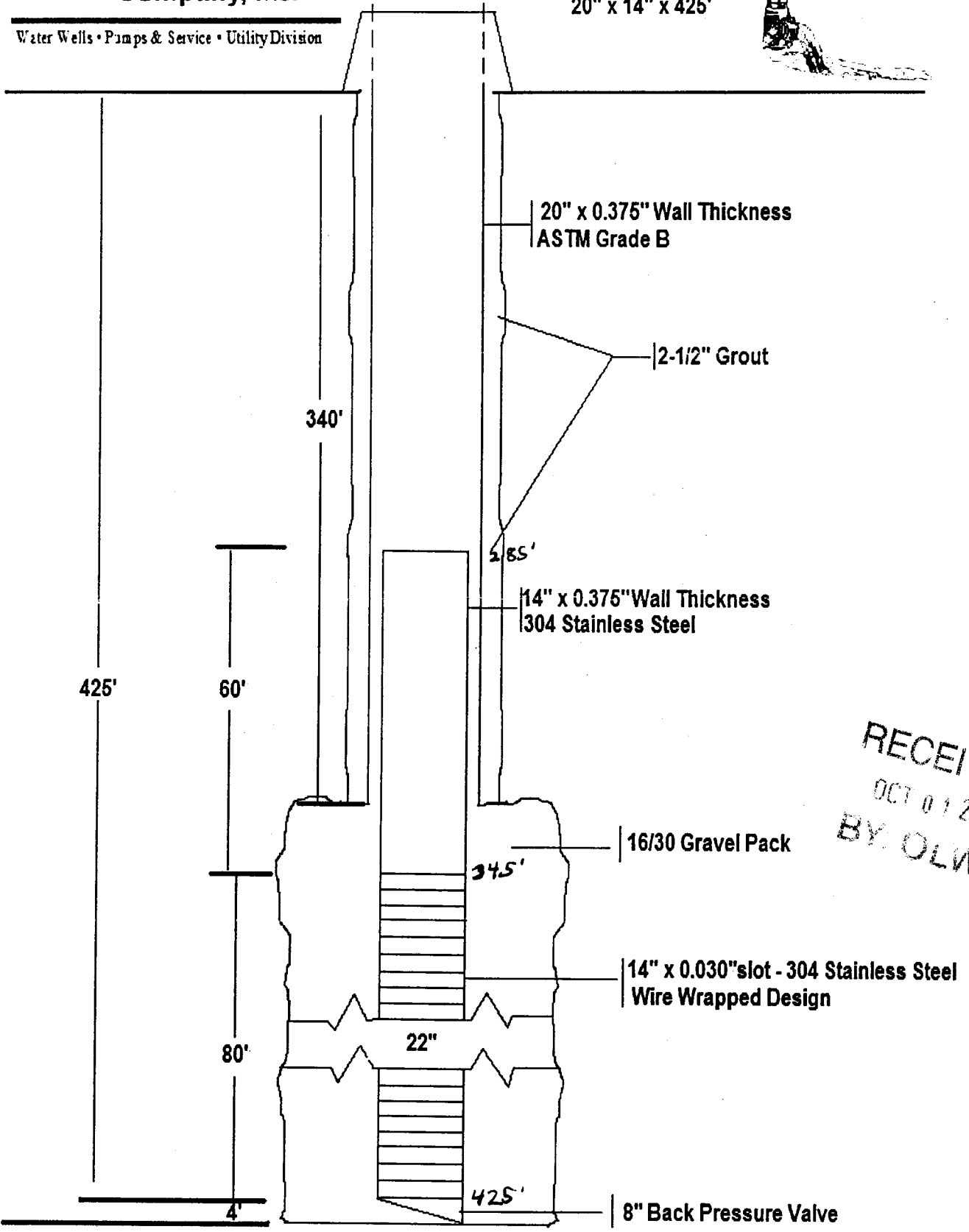
# Donald Smith Company, Inc.

Water Wells • Pumps & Service • Utility Division

Horn Lake Water Association

WELL DESIGN

20" x 14" x 425'



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