B-82

**MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY**
**Office of Land and Water Resources**

P. O. Box 10631
Jackson, MS 39289-0631
**WATER WELL DRILLERS LOG**

| | |
|---|---|
| COUNTY WELL LOCATED | Desoto |
| WELL NUMBER | 5 |
| CODED | |
| ~~F-119~~ | |
| DATE WELL COMPLETED | 6/25/03 |
| PERMIT NUMBER | MSGW - 16025 |
| NAME OF DRILLING FIRM | Layne Central |
| | Memphis |

NAME & MAILING ADDRESS OF LANDOWNER
City of Horn Lake
3101 Goodman, HornLake MS. 38637

Latitude: 34° 57' 38" N
Longitude: 90° 02' 57" W

| WELL LOCATION | SEC | TOWNSHIP | RANGE |
|---|---|---|---|
| | 35 | 1 (S) | 8 (W) |

| DISTANCE | DIRECTION | NEAREST TOWN |
|---|---|---|
| ½ Miles | SW of | City Hall |

OTHER LANDMARK
Water Tower Behind City Hall

WELL PURPOSE: Home, Irrigation, Municipal, Industrial, Fish Pond, etc.
Municipal

## WELL DATA

| Well Depth | Casing Diameter (in.) | Casing Length (Ft.) |
|---|---|---|
| 474' | 16" Coated | 399' |
| **Type of Casing** | **Hole Depth** | **Depth to Static Water Level** |
| Carbon Steel | 474' | 103' |

TYPE OF COMPLETION: (Circle One or More):
(Gravel Packed) (Underreamed) Telescoped, Natural Development, Open Hole, Other (Describe) _____

WELL GROUTED TO A DEPTH OF 399 FEET
Type Grout (circle one): (Cement) Bentonite, or Mix

## SCREEN DATA

| Diameter - Inches | Length - Feet | Slot Size - Inches |
|---|---|---|
| 10" | 66' | 20 Slot |
| **Screen Type** | | **Depth to Bottom - Feet** |
| Alloy 304 Stainless | | 470' |

## PUMP DATA

PUMP TYPE (Circle One):
Submersible, Turbine, Jet Flowing Well, Other (Describe) _____

POWER TYPE (Circle One):
Electric, Tractor, Diesel, Gasoline, Butane, Other (Describe) _____ H/P _____

| DESCRIPTION OF FORMATIONS ENCOUNTERED | FROM | TO |
|---|---|---|
| SEE ATTACHED | | |

RECEIVED
AUG 07 2003
BY: OLWR

Top of Lap Pipe or Reduction in Casing
341' FEET

IF TELESCOPED OR MORE THAN ONE SCREEN: USE BACK PAGE

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

064
Signature of Licensed Driller and License No.

7/14/03
Date

Additional Information Required On Back

# FORMATION LOG OF THE WELL OR TEST HOLE

NSGW - 16025

...st Hole 10/22/ 20 00 Finished 11/1/ 20 00 Test Hole Number 1

...ocation Behind City Hall Sec _____ TS _____ Range _____ Elevation _____

RECEIVED
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BY: OLWR

| Total Depth | Thickness Each Stratum | Formation |
|---|---|---|
| 1 | 1 | Top Soil |
| 35 | 34 | Brown Clay |
| 40 | 5 | Small Gravel & Sand |
| 80 | 40 | Medium Gravel & Sand |
| 92 | 12 | White Clay & Sand |
| 195 | 103 | Gray Clay |
| 345 | 150 | Fine Sand, Clay, & Lignite |
| 348 | 3 | Clay Strip, Gray Clay |
| 395 | 48 | Medium Sand, Clay & Lignite |
| 460 | 65 | Fine to Medium Sand & Clay, Very Little Clay |
| 500 | 40 | Coarse to Medium Sand, Lots of Clay & Lignite |
| 523 | 23 | Fine Sand & Mostly Clay |

| Total Depth | Thickness Each Stratum | Formation |
|---|---|---|
| | | |

**Mud Pit Size** _____ **Ft. X** _____ **Ft. X** _____ **Ft. Deep**

**Type Bit Used to Cut Sand** Roller

**Size of Test Hole Through Sand** 11 7/8"

**Type of Bit Used to Cut Upper Formations** Roller

_____ **Size** _____

**Type Mud Pump Used** _____

**Drilling Pressure in Sand** _____

**Type of Mud Used** _____

**Notes:**

**Test Data Final Test**

| | |
|---|---|
| **Static Water Level** | |
| **Pumped GPM** | |
| **Pressure Pounds** | |
| **Draw Down** | |
| **GPFD** | |
| **Guaranteed GPM** | |
| **Guaranteed Pressure** | |
| **Date of Test** | |

**REMARKS**

**Driller** David Walker

**Field Supt** Ray Smith