

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  
**Warren**

WELL NUMBER  
**South**

**J-59**

DATE WELL COMPLETED  
**4/10/1993**

PERMIT NUMBER  
**GW 14656**

NAME OF DRILLING FIRM  
**Layne-Central**

**Jackson, MS**

NAME & ADDRESS OF LANDOWNER  
**Isle of Capri Casino**  
**Riverboat Corporation of MS**  
**Vicksburg, MS 39180**

LATITUDE

LONGITUDE

WELL LOCATION SEC TOWNSHIP RANGE  
-- **29 31** **6N 16N** **3E**

DISTANCE DIRECTION NEAREST TOWN  
-- Miles -- of **Vicksburg**

OTHER LANDMARK  
**South of Lee Street by River**

WELL PURPOSE (Home, Irrigation, Municipal, Industrial, Fish Pond, etc.)  
**Other**

WELL DATA

|                                |                                    |                                    |
|--------------------------------|------------------------------------|------------------------------------|
| Well Depth<br><b>270'</b>      | Casing Diameter (In.)<br><b>8"</b> | Casing Length (Ft.)<br><b>210'</b> |
| Type of Casing<br><b>Steel</b> | Hole Depth<br><b>270'</b>          | Depth to Static<br><b>67'</b>      |

TYPE OF COMPLETION:

Gravel Packed  **x**

Underreamed

Telescoped

Other (Describe)

Natural Development

Open Hole

WELL GROUTED TO A DEPTH OF **50'** FEET

Type Grout:

Cement  **x** Bentonite  Mix

SCREEN DATA

|                                 |                                      |                                  |
|---------------------------------|--------------------------------------|----------------------------------|
| Diameter (In.)<br><b>8"</b>     | Length (Ft.)<br><b>60'</b>           | Slot Size (In.)<br><b>0.010"</b> |
| Screen Type<br><b>Stainless</b> | Depth to Bottom (Ft.)<br><b>270'</b> |                                  |

PUMP DATA

PUMP TYPE:

Submersible  **x** Turbine  Jet Flowing Well

Other (Describe)

POWER TYPE:

Electric  **x** Tractor  Diesel

Gasoline  Butane

Other (Describe) H/P **30**

| DESCRIPTION OF FORMATIONS ENCOUNTERED | FROM       | TO         |
|---------------------------------------|------------|------------|
| <b>Grade Dirt</b>                     | <b>0</b>   | <b>14</b>  |
| <b>Sandy Blue Clay</b>                | <b>14</b>  | <b>27</b>  |
| <b>Sand</b>                           | <b>27</b>  | <b>29</b>  |
| <b>Clay</b>                           | <b>29</b>  | <b>34</b>  |
| <b>Lime Rock</b>                      | <b>34</b>  | <b>43</b>  |
| <b>Brown Clay</b>                     | <b>43</b>  | <b>47</b>  |
| <b>Lime Rock</b>                      | <b>47</b>  | <b>61</b>  |
| <b>Sandy Clay</b>                     | <b>61</b>  | <b>165</b> |
| <b>Fire Sand &amp; Clay</b>           | <b>165</b> | <b>273</b> |

Top of Lap Pipe or IF TELESCOPED OR MORE THAN  
Reduction in Casing -- FEET ONE SCREEN, USE PAGE.

RECEIVED  
APR 16 2003  
BY: OLWR

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.

LAYNE-CENTRAL

By:

*Dave Cook*

4-15-03

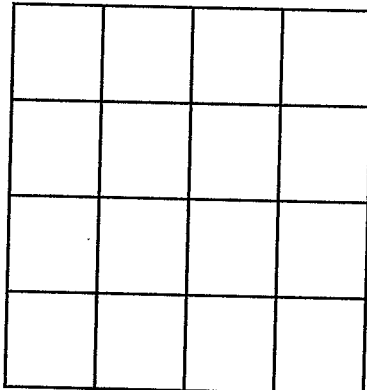
Signature of Licensed Driller and License No.

Date

Additional Information Required on Back

If well telescopes, please sketch and show depths.

GROUND LEVEL



SECTION 31

Please indicate well location X.

|   |                                     |  |
|---|-------------------------------------|--|
| Pump Capacity (GPM)<br><b>410</b>   | No. of Stages<br><b>5</b>           | Setting Depth (Ft.)<br><b>192</b>            |
| PUMP TEST   |                                     |  |
| Well yielded <u>410</u> GPM with a drawdown of <u>38.5</u> feet after <u>1½</u> hours of pumping. |                                     |  |
| LOG DATA  |                                     |  |
| TYPE OF LOG   | No Log Run <input type="checkbox"/> | Electric <input checked="" type="checkbox"/> |
| Gamma Ray <input checked="" type="checkbox"/>   | Density <input type="checkbox"/>    | Sonic <input type="checkbox"/>               |
| Other (Describe)  |                                     |  |
| Name of Organization Running Log  |                                     |  |
| <b>Layne-Central, Jackson, MS</b>   |                                     |  |
| GEOLOGIC DATA (Office Use Only)   |                                     |  |
| Surface   | Geologic Unit                       | Unit Thickness                               |
| Subs. SWL   | Date                                | Analysis                                     |
|   |                                     | Aquifer Test                                 |
| Driller's Remarks   |                                     |  |
|   |                                     |  |
|   |                                     |  |
|   |                                     |  |
|   |                                     |  |
|   |                                     |  |
|   |                                     |  |

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