**TRANSMITTED FOR ADP**

**U.S. GEOLOGICAL SURVEY**
**WATER RESOURCES DIVISION**
**MISSISSIPPI DISTRICT**

**AGENCY DATA**

| Site Id | 3111649108911111401 | Dist | 6-28
| State | 7-28 | Co. | 8-1035
| Lat. Long. | 9-13116491 | 10-108911114
| Well No. | 127 | E010551 | Location | NW
| Hyd. Unit (ODWC) | 209103117101015 | Date | 21-119861111125
| Agency Used | 603101 | Well Use | 23-1W1
| Water Use | 24-1P | Hole Depth | 27-189171 *
| Wl | 30-18110 | Date | 31-1987105109
| Project No. | 5 |
| UG | 7 |

**LIFT DATA**

| Completion Method | 65-1H | Finish | 66-8 |

**Casing/Constr.**

| Top casng | 77 | 1 | 0 | Bot. casng | 78 | 1 | 69 |
| Top casng | 77 | 1 | 698 | Bot. casng | 78 | 1 | 708 |
| Top casng | 77 | 1 | 708 | Bot. casng | 78 | 1 | 708 |
| Top casng | 77 | 1 | 1708 | Bot. casng | 84 | 1 | 1748 |

**Aquifers**

| Top | 91 | 1 | 690 | Bot | 92 | 1 | 788 | Unit Id | 93 | 1122234 * |
| Top | 91 | 1 | 788 | Bot | 92 | 1 | 788 | Unit Id | 93 | 1122234 * |

**Hydraulics**

| Test No. | 106 | 1 | 107 | Hydraul. cond. (gal/d)/ft² | 108 | 1 | 108 |
| Test No. | 106 | 1 | 107 | Transmissivity (gal/d)/ft | 108 | 1 | 108 | Storage coeff. Boundaries |

**Remarks**

---

**Notes:**

- The well record details various aspects of the Carterville Quad well, including site identification, hydrogeologic data, lift type, casing information, and aquifer characteristics.
**Owner**: Sunrise Utility

**Owner No.**: Well #3

**E-Log No.**: 1904

**Date**: 1987/10/01

**Temp**: 196\#00010

**Cond**: 196\#00095

**PH**: 196\#00400

**Log**: 199\#E1

**Top**: 412

**Bot**: 18971

**Remarks**: R=183\# 311

**pH**: 7.6

**Fe**: 18

**TDS**: 154

**Hard**: 20

**Flow (Pumped) - 147\#1**: 11987, 195100

**Q/S 272**:

**R=21\# T=A\# Yr Begin 115\#**

**Network 257\#**

**Switch**: 150= 12510

**SOIL**

<table>
<thead>
<tr>
<th>Material</th>
<th>Top 30#</th>
<th>0-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAND + CLAY + SAND</td>
<td>30.3 0.2</td>
<td></td>
</tr>
<tr>
<td>SAND</td>
<td>30.3 0.2</td>
<td></td>
</tr>
<tr>
<td>CLAY</td>
<td>30.3 0.2</td>
<td></td>
</tr>
<tr>
<td>SAND</td>
<td>30.3 0.2</td>
<td></td>
</tr>
<tr>
<td>CLAY</td>
<td>30.3 0.2</td>
<td></td>
</tr>
<tr>
<td>SAND</td>
<td>30.3 0.2</td>
<td></td>
</tr>
<tr>
<td>CLAY</td>
<td>30.3 0.2</td>
<td></td>
</tr>
<tr>
<td>SAND</td>
<td>30.3 0.2</td>
<td></td>
</tr>
<tr>
<td>CLAY</td>
<td>30.3 0.2</td>
<td></td>
</tr>
<tr>
<td>SAND</td>
<td>30.3 0.2</td>
<td></td>
</tr>
</tbody>
</table>
MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES
Bureau of Land and Water Resources
Southport Mall
P.O. Box 10631
Jackson, Mississippi 39209
WATER WELL DRILLERS LOG

MAY 87 RIVER DRILLING CO. FOREST

Date well completed: 1987

Landowner: SUNRISE

Utility Association: N/A

Well No. 3

Well Location: NW1/4, NW1/4 SEC 12

Sec. 97 T 40 N R 12 E

Miles (distance) of (direction) (nearest town)

Well Purpose: FARM WATER

Well Completion Data:

1. Diameter (inches): 10 3/4
2. Total depth (feet): 248
3. Static water level (feet below top of ground): 81
5. Screen (length, depth to top, size, material): 40, 708, 8, 304.5, 5.1, 008
7. Electric log (yes or no): YES
8. How well bottom plugged: BACK WALL

Description of formations encountered:

<table>
<thead>
<tr>
<th>From</th>
<th>To</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>SAND + CLAY STRATA</td>
<td>SAND</td>
</tr>
<tr>
<td>30</td>
<td>82</td>
</tr>
<tr>
<td>SAND</td>
<td>CLAY</td>
</tr>
<tr>
<td>92</td>
<td>172</td>
</tr>
<tr>
<td>SAND</td>
<td>CLAY</td>
</tr>
<tr>
<td>112</td>
<td>156</td>
</tr>
<tr>
<td>SAND</td>
<td>CLAY</td>
</tr>
<tr>
<td>926</td>
<td>303</td>
</tr>
<tr>
<td>SAND, CLAY STRATA</td>
<td>SAND</td>
</tr>
<tr>
<td>303</td>
<td>516</td>
</tr>
<tr>
<td>CLAY</td>
<td>SAND</td>
</tr>
<tr>
<td>516</td>
<td>690</td>
</tr>
<tr>
<td>SAND</td>
<td>CLAY</td>
</tr>
<tr>
<td>610</td>
<td>718</td>
</tr>
<tr>
<td>SAND</td>
<td>CLAY</td>
</tr>
<tr>
<td>188</td>
<td>802</td>
</tr>
<tr>
<td>CLAY</td>
<td>SAND</td>
</tr>
<tr>
<td>802</td>
<td>828</td>
</tr>
<tr>
<td>SAND</td>
<td>CLAY</td>
</tr>
<tr>
<td>828</td>
<td>860</td>
</tr>
<tr>
<td>SAND</td>
<td>CLAY</td>
</tr>
<tr>
<td>860</td>
<td>897</td>
</tr>
</tbody>
</table>

Drillers Remarks:
APPLICATION FOR PERMIT TO DIVERT OR WITHDRAW FOR BENEFICIAL USE
THE PUBLIC WATERS OF THE STATE OF MISSISSIPPI

This application is for (circle one): GROUNDWATER  SURFACE WATER

Beneficial Use (circle one or more): Irrigation  Fish Culture  Municipal  Fire Protection
Recreation  Flood Protection  Other:

LANDOWNER:
SUNRISE UTILITY ASSOCIATION, INC.

(Name)  64-0479512

(Address)  465 BATSON ROAD

(City)  PETAL,  MS  39465  (State)  601  (Telephone Number)  582-9354

APPLICANT, AGENT, OR LESSEE (If different from Landowner):

(Name)  

(Address)  

(City)  

(State and Zip)  

(Telephone Number)  

Location of diversion/withdrawal point (A suitable location map must accompany this application):

NW 1/4 of the SE 1/4 of Section 27, Township 4N, Range 12W, County FORREST

Volume of water diverted/withdrawn (Choose "a", "b", "c", or "d" ["d" is for units other than those shown in "a", "b", or "c"]):

(a) ___________________________________ acre-feet per year at a maximum rate of ___________________ gallons per minute

(b) ___________ 14 ______________________ million gallons per day at a maximum rate of ___________________ gallons per minute

(c) _________________________________ acre feet of storage at normal pool at a maximum rate of ____________________________

(d) _________________________________ per ____________________________ at a maximum rate of ____________________________

Construction of proposed work will begin on (date) ____________, 19_________and will be completed by (date) ____________, 19_________.

Water will be used from (month) ____________ to (month) ____________ each year.

Does the land to which this application pertains have any source(s) of water other than that for which you are now applying (circle one)?

YES __________ NO ____________

If yes, describe the nature and amount of any additional supply and, if applicable, list permit numbers.

SECTION A (to be completed if application is for surface water source)

1. Source of water is from _________________________________ which drains into _________________________________ which drains into ________________________________

2. Description of pump/diversion works:

(a) Pump (size and type): _________________________________ Power Unit (size and type): ________________________________

Lift: _________________________________ feet  Maximum capacity: _________________________________ gallons per minute.

(b) Name of storage reservoir: ________________________________  Dam height: _________________________________ feet.

Surface area at normal pool: ________________________________ acres. Storage capacity at normal pool: ________________________________ acre-feet.
SECTION B (to be completed if application is for groundwater source)

1. Source of water is 

2. Description of proposed water well:
   (a) DEPTH OF WELL: 748 feet. DRILLER (name): GRINER DRILLING SERV.
   (b) SURFACE CASING: Length: 
   Diameter: Inches. Type:
   (c) SCREEN: Length: 708 feet. Diameter: 8 inches. Type:
   (d) PUMP: Type: ELECT. Size: 20 HP. Capacity: 250 gallons per minute.
   Number of stages: Setting depth: C feet.
   (e) POWER UNIT: Type: Size: horsepower.
   (f) TYPE OF COMPLETION:

WATER USE DATA:

If for IRRIGATION, FISH CULTURE or any other area: use, show the number of acres to which water will be applied in the appropriate 40-acre block(s). Acreage must be shown on accompanying location map.

<table>
<thead>
<tr>
<th>TOWN</th>
<th>RANGE</th>
<th>SECTION</th>
<th>NE1/4</th>
<th>NW1/4</th>
<th>SW1/4</th>
<th>SE1/4</th>
<th>TOTALS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>NE1/4</td>
<td>NW1/4</td>
<td>SW1/4</td>
<td>SE1/4</td>
<td>NE1/4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. IRRIGATION: List the number of acres of each crop to be irrigated: Rice; Cotton; Soybeans; Corn; Pasture; Truck; Wheat; Oats; Grain sorghum; Other (specify) Acres 

2. FISH CULTURE: Explain how water will be used: 

How often will reservoir(s) be emptied and refilled? 

3. MUNICIPAL or WATER ASSOCIATION
   Choose "a" or "b". (a) The number of people served is 2,625. (b) The number of connections/customers is 875. 
   What is the estimated average daily consumption during periods of maximum use at the end of each five-year period during the next twenty years? 
   (Volume) (Year); (Volume) (Year); (Volume) (Year); (Volume) (Year); 

4. INDUSTRIAL: If water is to be released into a watercourse, indicate the amount released each year: 
   Rate of release: Location of release point in reference to diversion/withdrawal point: Explain any change in quality of water to be released: 
   NPDES Permit No.: 

How much groundwater will be used for once-through non-contact cooling? 

5. RECREATION: Explain how water will be used: 

6. OTHER use: Explain in detail: 

REMARKS:

List below the persons to be contacted for additional information if required: 

NAME: 
ADDRESS: 965 Benson Road 
CITY, STATE, ZIP: Petal, MS 39465 
PHONE: 582-9384 

The accompanying map is hereby declared a part of this application. 
The TEN DOLLAR ($10.00) permit fee is enclosed herewith. 

Subscribed and sworn to before me this 4th day of June 1992 at Petal, MS. 
County of Forrest 

Notary Public
DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT
GPS LOG

USER NAME(S):  CA Horstman                  DATE:  6/30/94
UNIT DEQ #:     82-555                     FILE #:  CO62922C
HEALTH DEPT. #:  180013-03                 ELEV.  207
USGS #:         2-137                      E55    OLWR #:   14319
OWNER:          Sunrise Utility Assn.
LOCATION:  NE-NW-SE S 27 T 4N R 12W COUNTY:  Forrest
LOCATION DESCRIPTION:  AT Elev. Tank on Sheeplo Rd 7/10 mi. E of intersection of Sheeplo Rd & Batson Rd.
CASING DIA:  10"        PUMP TYPE & SIZE:  20 HP Elec.
GPS FIELD LOCATION:  LAT.  31° 16.748    LONG.  89° 11.044
GPS CORRECTED LOCATION:  LAT.  31° 16.7402  LONG.  89° 11.02 63S
REMARKS:  GPS at well.