WELL SCHEDULE
U. S. DEPT. OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

MASTER CARD
Record No. 1
Source of data: USGS-Tenn.
Date: 2/3/75
Map: Olive Branch

Location:

Latitude: 34° 58' 35" N
Longitude: 88° 45' 28" W
Sequential number: 1

Well number: D-057
Other number: Well-2 (east)

Owner:
Name: Olive Branch
Address: Olive Branch, MS

Ownership:
County: DeSoto
City: (C)
Corporation: (F)
Private: (P)
State Agency: (R)
Water Dist: (S)

Use of well:
Water: (S)
Power: (P)
Recharge: (R)

Well description:

Well: Olive Branch

Log data:

Depth: 410 ft
Casing: 47 ft
Diameter: 2 in

Meter:

Water data:

Rate: 565 gal/min

Test:

Pump test: yes
SPRT: yes

U.S. G.P.O., 1972/720-793/96/1303
# HYDROGEOLOGIC CARD

**SAME AS ON MASTER CARD**

<table>
<thead>
<tr>
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<tr>
<td>Drained Basin</td>
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<td>Drainage Subbasin</td>
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**Topo of**

<table>
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<tr>
<th>Description</th>
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<td>depression, stream channel, dunes, flat, hilltop, sink, swamp</td>
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<td>offshore, pediment, hillside, terrace, undulating, valley flat</td>
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**MAJOR AQUIFER:**

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<td>Length of well open to</td>
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<tr>
<td>Depth to top of</td>
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<td>Thickness</td>
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<tr>
<td>Depth to top of</td>
<td>10</td>
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<tr>
<td>Thickness</td>
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**Intervals Screened:**

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<td>Depth to basement</td>
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<td>Source of data</td>
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<tr>
<td>Surface material</td>
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<tr>
<td>Infiltration characteristics</td>
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<tr>
<td>Coefficient Trans</td>
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<tr>
<td>Coefficient Storage</td>
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<tr>
<td>Coefficient Perm</td>
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<tr>
<td>Source of data</td>
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**Spec cap:**

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<th>Value</th>
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<tr>
<td>gpm/ft²</td>
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</table>

See location on DS8
### WATER WELL DRILLERS LOG

**Date Well Completed:** 1976

**WELL LOCATION:**
- **Sec:** 33 1
- **T XX R 6 X S**
- **W. Olive Br**
- **(Distance):** 1 miles
- **(Direction):** 000
- **(Nearest Town):** Memphis, Tennessee

**LANDOWNER:** Wortman & Mann

**MUNICIPAL PURPOSE:**
- **(Home, Irrigation, Municipal, Industrial):** Municipal

**WEDE COMPLETION DATA:**
1. **Diameter (inches):** 17½
2. **Total Depth (feet):** 474
3. **Static Water Level (feet):** 146' below top of ground
4. **Casing:**
   - **Material:** Steel
   - **Depth:** 410'
   - **Size:** 12"
   - **Size:** if telescope see back
5. **Screen:**
   - **Length:** 60'
   - **Depth to Top:** 410'
   - **Material:** Stainless Steel
   - **Size:** 6"
6. **Pump:**
   - **Type:** Electric
   - **HP:** 40
   - **Yield (gpm):** 500
7. **Electric Log:** Yes
8. **USGS:**
   - **Memphis Blanch**
   - **Organization Running Log**
9. **How Well Bottom Plugged:** Back Pressure Valve

**LAYER DESCRIPTION:**
- **Top Soil-Clay:** 0 - 16
- **Coarse Red Gravel:** 16 - 70
- **Clay-Lignite:** 70 - 171
- **Coarse Sand:** 171 - 251
- **Sand-Lignite:** 251 - 320
- **Sand-Lignite:** 320 - 330
- **Sand-Clay:** 330 - 385
- **Med.-Fine Sand:** 385 - 400
- **Med.-Coarse-Sand:** 400 - 475
- **Sand-Clay-Lignite:** 475 - 565

**RECEIVED:**
- **SEP 18, 1976**

**MISS. WR. OF WATER COMM:**
APPLICATION FOR PERMIT TO DIVERT OR WITHDRAW WATER
FOR BENEFICIAL USE THE PUBLIC WATERS OF THE STATE OF MISSISSIPPI

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES
P.O. BOX 10631, JACKSON, MS 39289-0631; (601) 961-6462

This box is for office use only

<table>
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<td>Dam Inv. No.</td>
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THIS APPLICATION IS FOR (Circle one): NEW PERMIT  RENEWAL - PERMIT NO. 05-GW-600
THIS APPLICATION IS FOR (Circle one): GROUNDWATER - COMPLETE A,B,E
                                     SURFACE WATER - COMPLETE A,C,D,E

BENEFICIAL USE (Circle one or more)  1) Public Supply - Municipal, Rural Water, or Private Water  2) Irrigation
  3) Industrial  4) Fish Culture  5) Recreation  6) Institutional (e.g. Church, School)
  7) Commercial (e.g. Hotel, Casino, Restaurant)  8) Fire Protection  9) Livestock  10) Flood Protection  11) Other: FIRE PROTECTION

SECTION A (to be completed by ALL APPLICANTS)

LANDOWNER: CITY OF OLIVE BRANCH
            (Name)                                       64-6001544
                                                             (SSN or Tax ID No.)
            (Address)                                    9189 PIGEON ROOST AVE
            OLIVE BRANCH MISS 38654                      (601) 895-3166
                                                             (City)  (State & Zip)  (Telephone No.)

APPLICANT, AGENT, OR LESSEE (if different from Landowner): SAME
            (Name)                                       (SSN or Tax ID No.)
                                                             (Address)
                                                             (City)  (State & Zip)  (Telephone)

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

SW 1/4 of the NW 1/4 of Section 29, Township 1S, Range 6W, County, DeSoto 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 number:

SECTION B (to be completed for GROUNDWATER SOURCE)

1. AQUIFER: MEMPHIS SPARTA MISSISSIPPI DEPARTMENT OF HEALTH NO:

2. Proposed work will begin on and will be completed by
   Feb. 19, 1976

   Under whose name was well originally drilled (if known)?
   OLIVE BANNED

3. Description of proposed or completed well:
   (a) DEPTH OF WELL: 400 feet
   (b) SURFACE CASING: Length ___________ feet; Diameter 12 inches; Type Steel
   (c) SCREEN: Length 60 feet; Diameter 6 inches; Type Stainless Steel
   (d) PUMP: Type ___________; Size ___________; Capacity: 500 gallons per minute; Setting depth ___________; feet
   (e) POWER UNIT: Type ___________; Size ___________; horsepower

4. PERMITTED VOLUME:
   (a) gallons per year at a maximum rate of
   (b) 500 gallons per minute (CONTINUED ON BACK)
SECTION C
(source of water is) which drains into ________ (major stream or river)

2. Description of pumping or treatment works:
   Pump (size & type): ____________________________ Power Unit (size & type): ____________________________
   Lift: _______ feet Maximum capacity: _______ gallons per minute
   3. acre-feet per year at a maximum rate of _______ gallons per minute

SECTION D (to be completed for SURFACE WATER IMPOUNDMENTS (DAMS) on continuously flowing streams)
1. Name of storage reservoir: ____________________________ Dam Height: _______ feet
2. Surface area at normal pool: ____________________________ Storage capacity at normal pool: _______ acre-feet

SECTION E WATER USE DATA (ALL APPLICATIONS - complete section related to beneficial use)
1. IRRIGATION: List the number of acres of each crop to be irrigated: Rice _______ Cotton _______ Oats _______
   Corn _______ Soybeans _______ Pasture _______ Truck _______ Wheat _______ Grass Sorgum _______
   Other (specify) _______ Acres _______
   A. Method of Irrigation (circle one) - Center Pivot Flood Furrow
   B. Land Condition (circle one) - Precision Land Formed Smoothed
   C. ASCS Farm No. _______ Tract No. _______

2. FISH CULTURE: Explain how water will be used:
   How often will reservoir(s) be emptied and refilled?

3. MUNICIPAL, WATER ASSOCIATION, OR PRIVATE WATER SYSTEM
   Chose "a" or "b". (a) The number of people served is _______ or (b) The number of connections is _______
   What is the estimated average daily consumption during periods of maximum use at the end of each five-year period during the
   next twenty (20) years?
   
<table>
<thead>
<tr>
<th>Year</th>
<th>Volume (gallons)</th>
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<tbody>
<tr>
<td>2000</td>
<td>1,800</td>
</tr>
<tr>
<td>2005</td>
<td>1,800</td>
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<tr>
<td>2010</td>
<td>1,800</td>
</tr>
<tr>
<td>2015</td>
<td>1,800</td>
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4. INDUSTRIAL: If the water is to be released into a watercourse, indicate the amount released each year:
   Rate of release _______ NPDES Permit No. _______
   Explain any changes in quality of water to be released:
   Explain how water will be used:
   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 (if needed, attach another page):

7. REMARKS: _______ this will is not in use at this time _______

List below the person to be contacted for additional information if required.

JOSEPH F. LAUDERDALE, P.E.

(Name)

9123 Pigeon Roost

(Address)

OLIVE BRANCH, MS 38654

(City, State, Zip)

601-895-0422

(Telephone)

The accompanying map is hereby declared a part of this application.
For irrigation and fish culture use, an ASCS photograph is required.
The TEN DOLLAR ($10.00) permit fee is enclosed herewith.

__________________________
(Signature)

Subscribed and sworn to before me this 14th day of August, 1985, at Olive Branch, County of DeSoto.

__________________________
(My Commission Expires April 13 1986 Notary Public)
DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S):             5H8+PEG
DATE:                    7/24/86

UNIT DEQ #:               84050
FILE #:                   16072715D

HEALTH DEPT. #:           170015-04
ELEV.:                  380

USGS #:                   D57
OLWR #:                   GW1607

OWNER:                   City of Olive Branch

LOCATION: N61S5W/NW S 29 T 15 R 6W
COUNTY:                  DeSoto

LOCATION DESCRIPTION:    

CASING DIA.:               16"    PUMP TYPE & SIZE:     Turbine 40 HP

GPS FIELD LOCATION: LAT. 34° 58' 31.5"    LONG. 89° 51' 71.3"
GPS CORRECTED LOCATION: LAT. 34° 57' 18" 337    LONG. 89° 51' 30.3"

REMARKS:                  N16 corner easower S10, 100' East of Hwy 78 E. 25 M. North of Goodman Rd.

This well is supping Rd.
Not in Service.