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

WELL SCHEDULE

MASTER CARD

Record by:  P.E. Grantham  
Source of data:  Drig E Log  
Date:  6-19-68  
Well No.:  5-109-16

WELL DESCRIPTION CARD

SAME AS ON MASTER CARD  
Depth well:  33.5 ft  
Casing type:  Steel  
Casing length:  128.1 ft  
Casing diameter:  1 1/2 in

Depth cased:  10  
(First perfor.)  15  
(Second perfor.)  18  
(Third perfor.)  24  
(Fourth perfor.)  30

Finish:  Concrete  
Method:  Air bored, cable, dug, jetted, reverse, trenching, driven, drive

Drilled:  3  
Pump intake setting:  9-6-8

Driller:  Robert Raliff Drilling Co., Grenada, Miss

Lift:  385  
Description:  Gas motor, diesel, electric, gasoline, hand, gas, wind, H.P.

Alt. LSD:  385  
Water Level:  16.0  
Accuracy:  G  
Method:  Determined

Date:  6-8  
Yield:  G  
Accuracy:  3.0  
Method:  Pumps

Drawdown:  5  
Accuracy:  3.5  
Method:  Determined

QUALITY OF WATER DATA:

Iron:  ppm  
Sulfate:  ppm  
Chloride:  ppm  
Hardness:  ppm

Sp. Conduct:  110 K x 10^6  
Temp.  17  
Data sampled:  3-2-71  
Taste, color, etc.
<table>
<thead>
<tr>
<th>DRILLERS REMARKS</th>
<th>WELL COMPLETION DATA</th>
<th>LANDOWNER/HOLDER</th>
</tr>
</thead>
</table>
| (8) hole wall bottom plugged | WELL LOCATION: | Hied }
| (7) electric log type | (distance) miles (direction) | LEROY L. SMITH |
| (6) pump # | between | 18.3 |
| (5) screen | (mailing address) | 16.7 |
| (4) casing | (home, irrigation, municipal, industrial) | 16.7 |
| (3) total depth (feet) | | 16.7 |
| (2) static water level (feet) | | 16.7 |
| (1) diameter (inches) | | 16.7 |

**WELL WELL DEPILERS LOG**

**CODED**

**LEROY L. SMITH**

**Jackson, Mississippi 32201**

**CODED**

**WELL WELL DEPILERS LOG**

**CODED**

**LEROY L. SMITH**

**Jackson, Mississippi 32201**
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) 965-3900

This box is for office use only.

<table>
<thead>
<tr>
<th>Issued: 3-25-96</th>
<th>Expires: 3-25-2006</th>
<th>Fee Paid:</th>
<th>Permit No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quad. Hernando</td>
<td>ASCS Farm No.</td>
<td>STAC</td>
<td>MSDOH No.</td>
</tr>
<tr>
<td>Aquifer: SPRT</td>
<td>Tract No.</td>
<td>Basis No.</td>
<td>Dam Inv. No.</td>
</tr>
</tbody>
</table>

THIS APPLICATION IS FOR (Circle one): NEW PERMIT RENEWAL PERMIT NO. MS-GW-01872

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:

SECTION A (to be completed by ALL APPLICANTS)

LANDOWNER: City of Hernando 64-6000440

190 Commerce Street

Hernando MS 38632 601 429-9092

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

<table>
<thead>
<tr>
<th>Name</th>
<th>(SSN or Tax ID No.)</th>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Address</th>
<th>(City)</th>
<th>(State &amp; Zip)</th>
<th>(Telephone)</th>
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</table>

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

SW 1/4 of the NE 1/4 of Section 18 Township 3 S Range 7 W 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, last permit number. Permit No. MS-GW-01871 on same 2 ac. lot.

Both wells are used for municipal water supply.

SECTION B (to be completed for GROUNDWATER SOURCE)

1. AQUIFER: SPRT MISSISSIPPI DEPARTMENT OF HEALTH NO: 17120005

2. Proposed work will begin on __________, 19____ and will be completed by __________, 19_____. If well has already been drilled, when was well completed (date)? __________, 19_____. Under whose name was well originally drilled (if known)? __________

3. Description of proposed or completed well:
   (a) DEPTH OF WELL: 350
   (b) SURFACE CASING: Length 281 feet; Diameter 10 inches; Type coated steel
   (c) SCREEN: Length 56 feet; Diameter 6 inches; Type stainless steel
   (d) PUMP: Type U.S. "WIS" Size __________ Capacity 750 gallons per minute; Setting depth 200 feet
   (e) POWER UNIT: Type Elect. Size __________ horsepower

4. PERMITTED VOLUME:
   (a) __________ feet per year at a maximum rate of __________ gallons per minute
   (b) __________ feet per day at a maximum rate of __________ gallons per minute

(CONTINUED ON BACK)
SECTION C
(to be completed for SURFACE WATER SOURCE)
1. Source of water is from ____________________ which drains into ____________________
   (major stream or river)

2. Discription of pump/diversion works:
   Pump (size & type): ____________________ Power Unit (size & type): ____________________
   Lift: ____________________ feet          Maximum capacity: ____________________ gallons per minute
   ____________________ 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: __________;
   Other (specify): __________ Acres __________
   A. Method of Irrigation (circle one) - Center Pivot □ Flood □ Furrow □ Smoothed □
   B. Land Condition (circle one) - Precision Land Formed □ 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? __________ 2001: __________ (Volume) 2006: __________ (Volume)
   2001: __________ (Year) 2006: __________ (Year)
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: The above information is all that is available. The consumption figures is for all three wells in city.

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

Daniel L. Murphy
(Name)
P.O. Box 587
(Address)
Hernando, MS 38632
(City, State, Zip)
601-429-1312
(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 before me this 31st day of Jan. 1996, at Hernando, County of DeSoto
My commission expires 6-30-97

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

GPS LOG

USER NAME(S):  SHY + DEX
DATE:  7-23-94

UNIT DEQ #:  84088
FILE #:  8723218

HEALTH DEPT. #:  170009-03
ELEV.  399

USGS #:  463 15
OLWR #:  WE-GW-1872

OWNER:  Town of Hernando

LOCATION:  NE1/5W/NE1/4 18 T 35 R 7W
COUNTY:  DeSoto

Hernando Quad
LOCATION DESCRIPTION:  Well in Hernando Area.

CASING DIA:  12"
PUMP TYPE & SIZE:  Turbine 160

GPS FIELD LOCATION:  LAT.  34° 49' 60"  LONG.  89° 58' 697W

GPS CORRECTED LOCATION:  LAT.  34° 49' 60"  LONG.  89° 58' 697W

REMARKS:  Take road east of Chevron Station.

#3 is first and #2 is at tree
.1 miles from Commerce St. pass to Interstate
exit ramp.

exit ramp.