

USGS well schedule missing

GW14775  
DOH # 170018-09  
(170017-03)

**WELL SCHEDULE  
FOR  
THE OFFICE OF LAND AND WATER RESOURCES**

Fips: 33

Well: G75

Log No: \_\_\_\_\_

Recorded by: Paul Data Source: Driller's log, permit Date: 12/8/2000  
(was 170017-03)

County: De Soto Permit No.: GW14775 DOH No.: 170018-09

Quad: Pleasant Hill Elevation: 380 ~~380~~ 390

1/4: \_\_\_\_\_ 1/4: SW 1/4: NW 1/4: NW Sec.: 3 T: 2S R: 7W

Plotted on quad?  In field? \_\_\_\_\_ From drillers log? \_\_\_\_\_ From permit? \_\_\_\_\_

Latitude: 34° 56' 45.49" Longitude: 89° 56' 11.38" GPS?  From quad? \_\_\_\_\_

Primary Aquifer: SPRT Secondary Aquifer: \_\_\_\_\_

Use: MU Well status: \_\_\_\_\_ Local Well Name: \_\_\_\_\_

Owner: City of Southaven

Date completed: 11/11/93 Driller: Layne Central Well depth: 373 Hole depth: 569

Pump type: Turbine Power type: Electric Pump capacity: 1000 gpm

Screen interval: \_\_\_\_\_ Screen length: \_\_\_\_\_ Screen diameter: \_\_\_\_\_

Screen interval: \_\_\_\_\_ Screen length: \_\_\_\_\_ Screen diameter: \_\_\_\_\_

Casing interval: \_\_\_\_\_ Casing length: \_\_\_\_\_ Casing diameter: \_\_\_\_\_

Casing interval: \_\_\_\_\_ Casing length: \_\_\_\_\_ Casing diameter: \_\_\_\_\_

Type of logs: \_\_\_\_\_ Log interval: \_\_\_\_\_

Initial water level(s): \_\_\_\_\_ Date: \_\_\_\_\_ Measuring point description: \_\_\_\_\_

Water Quality Data? \_\_\_\_\_ Source: \_\_\_\_\_ Reliability: \_\_\_\_\_

Water Level Data? \_\_\_\_\_ Source: \_\_\_\_\_ Reliability: \_\_\_\_\_

Pump Test Data? \_\_\_\_\_ Source: \_\_\_\_\_ Reliability: \_\_\_\_\_

Water Use Data? \_\_\_\_\_ Source: \_\_\_\_\_ Reliability: \_\_\_\_\_

Water level data

This area for location map and notes

DeSoto  
 GA 75

LODED

MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES  
 Bureau of Land and Water Resources  
 Southport Mall  
 P.O. Box 10631  
 Jackson, Mississippi 39209  
**WATER WELL DRILLERS LOG**

11/11 19 93 Layne-Central DeSoto  
 date well completed firm name county well located

LANDOWNER: City of Southaven	description of formations encountered		from	to
P. O. Box 425	Clay		0	28
Southaven, MS 38671 (mailing address)	Sand & Gravel		28	66
	Clay		66	100
	Hard Sandy Clay		100	138
<b>WELL LOCATION:</b>	Real Fine Sand & Lots of		138	163
sec. 3 T. 2S N R. 7W E S W	Clay Streaks			
	Fine Sand & Clay Streaks		183	194
	Medium Sand & Lots of		194	257
miles of (distance) (direction) (nearest town)	Clay Streaks & Soft Strks			
<b>WELL PURPOSE:</b> Municipal (home, irrigation, municipal, industrial)	Medium Sand & Little Clay		257	287
<b>WELL COMPLETION DATA:</b>	Streaks			
(1) diameter (inches) 16"	Medium Coarse Sand &		287	349
(2) total depth (feet) 373'	Clay Streaks			
(3) static water level (feet) 173 below above top of ground.	Sandy Clay		349	380
(4) casing Steel 65' (material) (depth)	Sandy Clay & Lignite		380	402
(size) If telescope see back.	Fine Sand Lots Clay		402	435
(5) screen 80' 289' (length) (depth to top)	Streaks & Lignite			
10" Stainless Steel (size) (material)	Sandy Clay		435	443
(6) pump 100 1000 (HP) (yield gpm)	Sandy Clay & Sand Streaks & Lignite		443	537
3/60/460 (type power)	Sand Clay & Lignite		537	543
(7) electric log Yes (yes or no)	Blue Shale		543	569
Layne-Central (organization running log)				
(8) how well bottom plugged Cement				
<b>DRILLERS REMARKS:</b>				

RECEIVED

DEC 09 1993

Dept. of Envir  
 Office of Land

SPK1  
G74

Issued: 4-12-94	Expires: 4-12-2004	Fee Paid: X	Permit No. GW-14775
Lat. 34-56-45	Long. 89-56-11	Elev. 390	USGS No.
Quad: PLEASANT HILL	Dist.		Basin No. 08030204
STAC			Dam Inv. No.
			Dam appl. No.

Dept. of Natural Resources, Bureau of Land and Water Resources, P.O. Box 10631, Jackson, MS 39289-0631

# APPLICATION FOR PERMIT TO DIVERT OR WITHDRAW FOR BENEFICIAL USE OF THE PUBLIC WATERS OF THE STATE OF MISSISSIPPI

RECEIVED

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

MAR 07 1994

Beneficial Use (circle one or more): Irrigation Fish Culture Municipal Rural Water Association  
 Recreation Institutional (Examples: Church, School) Commercial (Examples: Hotel, Restaurant) Livestock Standby  
 Fire Protection Flood Protection Other: \_\_\_\_\_

### LANDOWNER:

CITY OF SOUTHAVEN

(Name) \_\_\_\_\_ (S/S or Tax ID No.) 64-064-2403

P.O. BOX 425

(Address) \_\_\_\_\_

SOUTHAVEN MS. 38671 (601) 393-5931

(City) \_\_\_\_\_ (State and Zip) \_\_\_\_\_ (Telephone Number) \_\_\_\_\_

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

SAME AS ABOVE

(Name) \_\_\_\_\_ (S/S or Tax ID No.) \_\_\_\_\_

(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 NW 1/4 of Section 3, Township 2S, Range 7W, County DeSoto

### 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) N/A acre-feet per year at a maximum rate of \_\_\_\_\_ gallons per minute

(b) 0.40 0.333 million gallons per day at a maximum rate of 1000 gallons per minute

(c) N/A acre feet of storage at normal pool

(d) N/A per \_\_\_\_\_ at a maximum rate of \_\_\_\_\_

Construction of proposed work will begin on (date) 7-18, 1992 and will be completed by (date) 11-11, 1993

Water will be used from (month) January to (month) December 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 N/A 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.

(Continued on back)

**SECTION B** (to be completed if application is for groundwater source)

*BW 14795*

1. Source of water is SPARTA SAND aquifer.
2. Description of proposed water well:
  - (a) DEPTH OF WELL: 373 feet. DRILLER (name): LAYNE-CENTRAL (MEMPHIS, TN.)
  - (b) SURFACE CASING: Length: 284 feet. Diameter: 16 inches. Type: STEEL
  - (c) SCREEN: Length: 80 feet. Diameter: 10 inches. Type: STAINLESS STEEL
  - (d) PUMP: Type: TURBINE Size: 14" Capacity: 1000 gallons per minute.  
Number of stages: FOUR Settling depth: 263 feet.
  - (e) POWER UNIT: Type: VERTICLE ELECTRIC Size: 100 horsepower.
  - (f) TYPE OF COMPLETION: DEEP WELL TURBINE PUMP WATER LUBRICATION, ELECTRIC MOTOR

**WATER USE DATA:**

If for IRRIGATION, FISH CULTURE or any other areal 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.

TOWN-SHIP	RANGE	SEC-TION	NE1/4				NW1/4				SW1/4				SE1/4				TOTALS		
			NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4	NE1/4	NW1/4	SW1/4	SE1/4			

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 \_\_\_\_\_. (b) The number of connections/customers is 800  
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? 0.4 MGD 1999; 0.6 MGD 2004; 0.8 MGD 2009; 1.0 MGD 2014  
(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 N/A  
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. \_\_\_\_\_  
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: N/A

6. OTHER use: Explain in detail: N/A

REMARKS: THIS IS WELL # 1 FOR A NEW WATER PLANT TO PROVIDE INCREASED SUPPLY FOR DOMESTIC USE AND FIRE PROTECTION IN DEVELOPING AREAS OF THE SYSTEM

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

RONALD E. SMITH  
(Name) \_\_\_\_\_  
P.O. BOX 475  
(Address) \_\_\_\_\_  
SOUTHAVEN, MS 38671  
(City, State, Zip) \_\_\_\_\_  
(601) 393-4639  
(Telephone) \_\_\_\_\_

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

*Ronald E. Smith*  
\_\_\_\_\_  
(Signature)

Subscribed and sworn to before me this 2 day of March 1994, at SOUTHAVEN MS  
County of DESOTO. My commission expires Feb 20 1995

*Marlene Sprinkle*  
\_\_\_\_\_  
Notary Public