

9-185
(October 1950)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

WELL SCHEDULE

Date 5/6/65, 19____ Field No. _____
Record by B E Wasson Office No. B 8
Source of data John Brewer w w system Dillon

1. Location: State _____ County Desoto
Map _____

2. Owner: Desoto utilities address South Haven
Tenant _____ Address _____
Driller Carlson address Memphis

3. Topography _____

4. Elevation _____ ft. above
_____ ft. below

5. Type: Dug, drilled, driven, bored, jetted _____ 19 61

6. Depth: Rept. 370 ft. Meas. _____ ft.

7. Casing: Diam. 12 in. to _____ in., Type _____
Depth _____ ft., Finish 50' X 8"

8. Chief Aquifer Sparta From _____ ft. to _____ ft.
Others _____

9. Water level 51 ft. rept. _____ 19 61 above
_____ ft. meas. _____ below
_____ which is _____ ft. above
_____ below surface

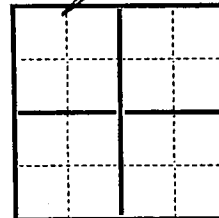
10. Pump: Type _____ Capacity _____ G. M.
Power Kind _____ Horsepower _____

11. Yield: Flow _____ G. M., Pump 500 G. M., Meas., Rept. Est. _____
Drawdown _____ ft. after _____ hours pumping _____ G. M.

12. Use: Dom., Stock, PS., RR., Ind., Irr., Obs. _____
Adequacy, permanence _____

13. Quality _____ Temp. _____ °F.
Taste, odor, color _____ Sample Yes _____
No _____
Unfit for _____

14. Remarks: (Log, Analyses, etc.) _____



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

RENEW

JUN 18 1997

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES
P.O. BOX 10631, JACKSON, MS 39289-0631; (601) 961-5202

This box is for office use only. 10-28-97 AGN. Dept. of Environmental Quality
FORM 1000-1-97 (2 of 4) Resources

Issued: <u>11-24-87</u>	Expires: <u>10-28-2007</u>	Fee Paid: <u>X</u>	Permit No.
Lat. <u>34-59-18</u>	Long. <u>90-01-00</u>	Elev. <u>300</u>	USGS No.
Quad. <u>HORN LAKE</u>	ASCS Farm No.	STAC.	MSDOH No.
Aquifer: <u>SPRT</u>	Tract No.		Basin No.
Remarks:			Dam Inv. No.

THIS APPLICATION IS FOR (Circle one): NEW PERMIT RENEWAL PERMIT NO. MS-GW-04124

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 (eg. Church, School) 7) Commercial (eg. Hotel, Casino, Restaurant) 8) Fire Protection 9) Livestock 10) Flood Protection 11) Other: _____

SECTION A (to be completed by ALL APPLICANTS)

LANDOWNER: CITY OF SOUTHAVEN 64-0642-403
(Name) (SSN or Tax ID No.)
P.O. BOX 425
(Address)
SOUTHAVEN, MS. 38671 (601) 393-5931
(City) (State & Zip) (Telephone No.)

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

MAP SENT

Location of diversion/withdrawal point (A suitable map with location marked must accompany this application):
SW NE 1/4 of the NE NW 1/4 of Section 23, Township 01S, Range 08W, 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. TWO OTHER WELLS & PLANT
170018-10 & 170018-01

SECTION B (to be completed for GROUNDWATER SOURCE)

1. AQUIFER: SPARTA SAND MISSISSIPPI DEPARTMENT OF HEALTH NO.: 170018

2. Proposed work will begin on _____, 19____, and will be completed by _____, 19____.
If well has already been drilled, when was well completed (date)? 5-18, 19 61. Under whose name was well originally drilled (if known)? DEVELOPER

3. Description of proposed or completed well:
(a) DEPTH OF WELL: 373 feet. DRILLER: CARLOS WELL SUPPLY CO.
(b) SURFACE CASING: Length 315 feet; Diameter 12 inches; Type STANDARD T&C
(c) SCREEN: Length 50 feet; Diameter 8 inches; Type STAINLESS STEEL
(d) PUMP: Type VERTICAL TURBINE; Size 10; Capacity 500 gallons per minute; Setting depth 187 feet
(e) POWER UNIT: Type ELECTRIC; Size 30 horsepower

4. PERMITTED VOLUME :
(a) _____ acre-feet per year at a maximum rate of _____ gallons per minute
(b) .300 million gallons per day at a maximum rate of 500 gallons per minute
0-30 BB 8-27-97 (CONTINUED ON BACK) 500

SECTION C (to be completed for SURFACE WATER SOURCE)

- Source of water is from _____ which drains into _____
which drains into _____
(major stream or river)
- Description 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)

- Name of storage reservoir: _____ Dam Height: _____ feet
- 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)

- IRRIGATION:** List the number of acres of each crop to be irrigated: Rice _____; Cotton _____; Oats _____; Corn _____; Soybeans _____; Pasture _____; Truck _____; Wheat _____; Grain Sorghum _____; 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. _____
- FISH CULTURE:** Explain how water will be used: _____
How often will reservoir (s) be emptied and refilled? _____
- MUNICIPAL, WATER ASSOCIATION, or PRIVATE WATER SYSTEM**
Chose "a" or "b". (a) The number of people served is 22455 or (b) The number of connections is 8317
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?

<u>3.4 MGD</u>	<u>2000</u>	<u>3.6 MGD</u>	<u>2005</u>	<u>3.9 MGD</u>	<u>2010</u>	<u>4.2 MGD</u>	<u>2020</u>
(Volume)	(Year)	(Volume)	(Year)	(Volume)	(Year)	(Volume)	(Year)
- 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? _____
- RECREATION:** Explain how water will be used: _____
- OTHER USE:** Explain in detail (if needed, attach another page): _____
- REMARKS:** _____

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

J. A. GATES, MAYOR
(Name)
PO BOX 425
(Address)
SOUTHAVEN, MS. 38671
(City, State, Zip)
601 393 5931
(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.

J. A. Gates
(Signature)

Subscribed and sworn to before me this 21st day of May, 1997, at Southaven County of DeSoto
 NOTARY PUBLIC STATE OF MISSISSIPPI AT LARGE.
 MY COMMISSION EXPIRES: Apr. 6, 2001.
 BONDED TO THE NOTARY PUBLIC UNDERWRITERS.
Sherry W. Bennett Notary Public.

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

GPS LOG

5HB + PEC
USER NAME(S): LAZ / DMS DATE: 7-24-96
UNIT DEQ #: 840 FILE #: B072813C
HEALTH DEPT. #: 170018-01 ELEV. 280
USGS #: 488 B8 B7 OLWR #: MS-GW-04122 04124
OWNER: City of Southaven / Whitworth W ft. 1
LOCATION: SW/NW/NE S 23 T 15 R 8W COUNTY: DeSoto
LOCATION DESCRIPTION: Well in fence west of gate
CASING DIA: 10" PUMP TYPE & SIZE: Turbine / 30
GPS FIELD LOCATION: LAT. 34-59-309 N LONG. 90-01-027 W
GPS CORRECTED LOCATION: LAT. 34° 59' 19.8" LONG. 90°-01'-02.4"
REMARKS: SEE Well #3 for location to this Well
Located at Fire station 12 mi S. of St. Line RD

I think the 01 + 02 tags have been switched; location of wells on back of B7 well schedule shows B8 matching with 01 well on map - B7 with 02

HORN LAKE QUADRANGLE
MISSISSIPPI-TENNESSEE
7.5 MINUTE SERIES (TOPOGRAPHIC)

769

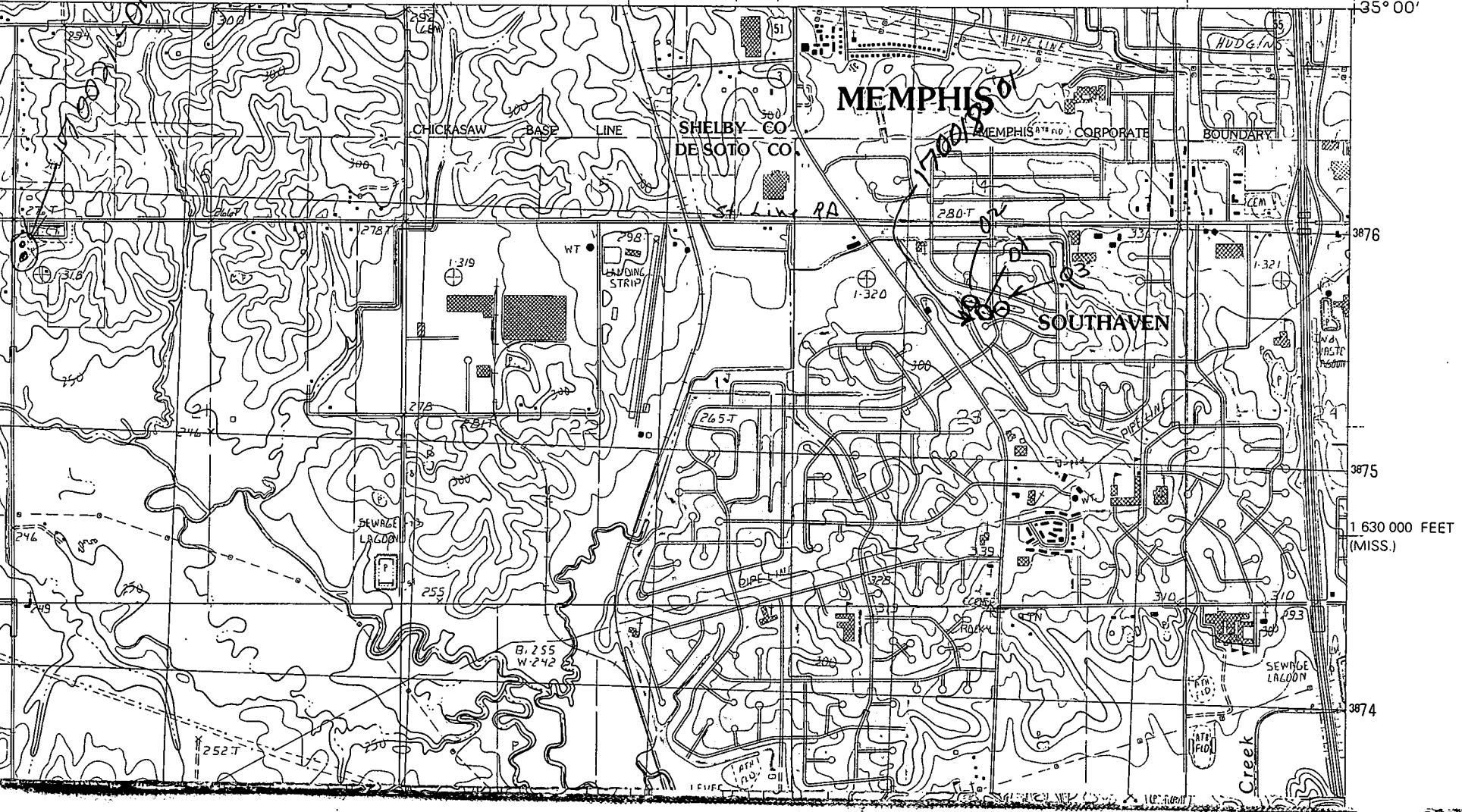
2' 30"

590 000 FEET (MISS.)

772

773

90° 00'
35° 00'



1 630 000 FEET
(MISS.)