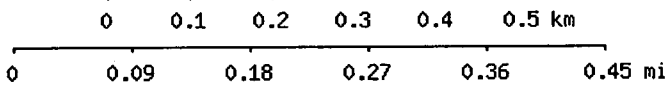


0170024-01  
G603218  
B59



Map center is 34° 58' 11"N, 90° 05' 27"W (WGS84/NAD83)

**Horn Lake** quadrangle

Projection is UTM Zone 15 NAD83 Datum

M=0.05  
G=1.669







DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR  
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): SHB + PEG 6A2/DAB DATE: 8-21-94  
7/26/94  
UNIT DEQ #: 84080 84759 FILE #: 80720196  
24 A082115B  
HEALTH DEPT. #: 17002-01 ELEV. 300  
USGS #: 526 B-60 B59 OLWR #: MS-GW-03217 3218  
OWNER: LAKE FOREST Holly Hill DeSoto ALA. (N. Mississippi Co.)  
LOCATION: NW/NE/SW S 30 T 15 R 8W COUNTY: DeSoto  
Hoxie Lk. Quad  
LOCATION DESCRIPTION: north WEST SIDE OF PLANT YARD

CASING DIA: 4" PUMP TYPE & SIZE: Turbine 75HP  
GPS FIELD LOCATION: LAT. 34.57825N LONG. 90.06482W  
34° 58' .171" 90° 05' .425"  
GPS CORRECTED LOCATION: LAT. 34.96960192 LONG. 90.09084914

REMARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

+





**SECTION C** (to be completed for **SURFACE WATER SOURCE**)

1. Source of water is from \_\_\_\_\_ which drains into \_\_\_\_\_  
which drains into \_\_\_\_\_  
(major stream or river)
2. Description of pump/diversion 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 \_\_\_\_\_; 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. \_\_\_\_\_
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 276  
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? 

65,000	2000	65,000	2005	68,000	2010	68,000	2015
(Volume)	(Year)	(Volume)	(Year)	(Volume)	(Year)	(Volume)	(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:** \_\_\_\_\_

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

BILL J ROBERSON  
(Name)  
P O BOX 362  
(Address)  
HERNANDO MS 38632  
(City, State, Zip)  
(601) 429-9509  
(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.

Bill J Roberson  
(Signature)

Subscribed and sworn to before me this 28<sup>th</sup> day of Feb, 1996, at Hernando County of Miss  
My commission expires March 23, 1998; Rhonda Roberson Allison Notary Public.



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

MAR 01 1996

DEPARTMENT OF ENVIRONMENTAL QUALITY, OFFICE OF LAND AND WATER RESOURCES  
P.O. BOX 10631, JACKSON, MS 39289-0631; (601) 961-5203

Office of Environmental Quality  
Office of Land & Water Resources  
FORM OLWR-AP-1 (REV. 9/94)

This box is for office use only. 4-23-96 AGN.

Issued: <u>8-12-86</u>	Expires: <u>5-13-2006</u>	Fee Paid: <input checked="" type="checkbox"/>	Permit No. <u>GW-3218</u>
Lat. <u>34 58 11.06</u>	Long. <u>90 05 27.06</u>	Elev. <u>304'</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. 03218

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: NORTH MISSISSIPPI UTILITY COMPANY 64-0676172  
(Name) (SSN or Tax ID No.)  
P O BOX 362, 1481 BYHALIA ROAD  
(Address)  
HERNANDO MS 38632 ( 601 ) 429 9509  
(City) (State & Zip) (Telephone No.)

APPLICANT, AGENT, OR LESSEE (if different from Landowner):  
(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):  
SE NE 1/4 of the NW SW 1/4 of Section 30, Township 1 S, Range 8 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, list permit number. \_\_\_\_\_

**SECTION B** (to be completed for GROUNDWATER SOURCE)

- AQUIFER: SPARTA MISSISSIPPI DEPARTMENT OF HEALTH NO.: 170025 ?
- Proposed work will begin on \_\_\_\_\_, 19\_\_\_\_, and will be completed by \_\_\_\_\_, 19\_\_\_\_.  
If well has already been drilled, when was well completed (date)? \_\_\_\_\_, 19 72. Under whose name was well originally drilled (if known)? DESOTO UTILITY
- Description of proposed or completed well:
  - DEPTH OF WELL: 105 feet. DRILLER: \_\_\_\_\_
  - SURFACE CASING: Length \_\_\_\_\_ feet; Diameter 6 inches; Type STEEL
  - SCREEN: Length 20 feet; Diameter \_\_\_\_\_ inches; Type \_\_\_\_\_
  - PUMP: Type SUBMERGE; Size \_\_\_\_\_; Capacity 120 gallons per minute; Setting depth \_\_\_\_\_ feet
  - POWER UNIT: Type \_\_\_\_\_; Size \_\_\_\_\_ horsepower
- PERMITTED VOLUME :
  - \_\_\_\_\_ acre-feet per year at a maximum rate of \_\_\_\_\_ gallons per minute
  - ~~0.070~~ 0.06 million gallons per day at a maximum rate of 120 ✓ gallons per minute  
0.07 120

*(CONTINUED ON BACK)*  
3-8-96

LIFT

R= 42 \* T= (A) M \* Lift type 43# T \* Intake 44= [ ][ ] \* Power type 45= E \*  
 Date 38= 05/01/1972 \* H.P. 46= [ ][ ] 5 [ ][ ] \*

LOGS

R= 198 \* T= (A) M \* Log: 199# D \* Top 200= [ ][ ][ ] 0 [ ][ ] \* Bot. 201= [ ][ ] 107 [ ][ ] \*  
 R= 198 \* T= A M \* Log 199# [ ][ ] \* Top 200= [ ][ ][ ] [ ][ ] \* Bot. 201= [ ][ ][ ] [ ][ ] \*  
 R= 189 \* T= A \* 190# [ ][ ][ ] \* 191= M I S S D I S T \*

ANAL.

R= 114 \* T= A M \* Year 115# [ ][ ][ ] \* Type 120= [ ][ ] \*

AQUIFERS

R= 90 \* T= (A) M \* 256# 1 \* Top 91= [ ][ ][ ] 76 [ ][ ] \* Bot. 92= [ ][ ] 107 [ ][ ] \*  
 Unit ID 93= 124 S P R T \* Name of unit  
 R= 90 \* T= A M \* 256# [ ][ ] \* Top 91= [ ][ ][ ] [ ][ ] \* Bot. 92= [ ][ ][ ] [ ][ ] \*  
 Unit ID 93= [ ][ ][ ][ ][ ][ ][ ][ ] \* Name of unit

HYDRAULICS

R= 98 \* T= A M \* 99# 1 Unit tested 100= [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] \*  
 R= 105 \* T= A M \* 99# 1 Test No. 106# [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] \*  
 Transmissivity 107= [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] \* T(gal/d)/ft  
 Hydraul. conduct. 108= [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] \* P(gal/d)/ft<sup>2</sup>  
 Storage coeff. 110= [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ] \* Boundaries

3 miles W of Ham Lake  
 0-46 Clay  
 46-71 Sd. gravel  
 71-76 Clay  
 76-107 Sd. gravel

U.S. GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION  
MISSISSIPPI DISTRICT

TRANSMITTED FOR ADP

✓ 1/77

WELL RECORD

Record by WTO Date 9-10-76 County DeSoto Well No. 1859  
Horn Lake Quad E-log No. \_\_\_\_\_

GEN. SITE DATA

Site ID 345811090053001 R= 0 T= (A) M 2= (W) \*

Data reliab. 3= C (U) \*Report. agency 4= U S G S \* Dist. 6= 2 8 \* 7= 2 8 \*

County 8= 033 \* Lat/Long 9= 345811 \* 10= 0900530 \*

Well No. 12= F090 \* Loc 13= NE S W S 30 T O I S R O 8 W \*

Alt. 304 16= 300 \* Hyd. Unit (OWDC) 20= \_\_\_\_\_ \*

Date 21= 05/00/1972 \* Well use 23= W \* Water use 24= N \*

Hole depth 27= 107 \* Well depth 28= 105 \*

WL 30= 46 \* Date 31= 05/00/1972 \* Source 33= (D) \*

OWNER

R = 158 \* T= (A) M \* Date 159# 05/00/1972 \* North Ms Utility Co. \* Owner No. \_\_\_\_\_

Owner 161= DESOTO DEV CORP VTL \* PW SPRT

FIELD QW

R = 192 \* T= A M \* Date 193# 19 \* Additional cards same R thru 193 for each parameter.

Temp. 196# 00010 \* °C 197= \_\_\_\_\_ \*

Cond. 196# 00095 \* uMhos 197= \_\_\_\_\_ \*

pH 196# 00400 \* Value 197= \_\_\_\_\_ \*

CONSTR.

R = 58 \* T= (A) M \* 59# 1 \* Date 60= 05/00/1972 \*

Drlr 63= 00 \* Name: Carloss Well Supply Method 65= 14 \*

Finish 66= S \* Remarks \_\_\_\_\_

CASING

R = 76 \* T= (A) M \* 59# 1 \*

Top csng 77# 0 \* Bot. csng 78= 85 \* Diam. 79# 6 \*

R = 76 \* T= A M \* 59# \_\_\_\_\_ \*

Top csng 77# \_\_\_\_\_ \* Bot. csng 78= \_\_\_\_\_ \* Diam. 79# \_\_\_\_\_ \*

OPENINGS

R = <u>82</u> *	T= <u>(A) M</u> *	59# <u>1</u> *
Top 83#	<u>85</u>	*
Bot. 84=	<u>105</u>	*
Type 85=	<u>S</u>	*
Diam. 87=	<u>6</u>	*
Size 88=	<u>.</u>	*

R=82 *	T= <u>A M</u> *	59# _____ *
83#		*
84=		*
85=		*
87=		*
88=		*

YIELD

R = 134 (146) \* T= (A) M \* 147# 1 \* Q 150= 120 \* Q/s 272= \_\_\_\_\_ \*