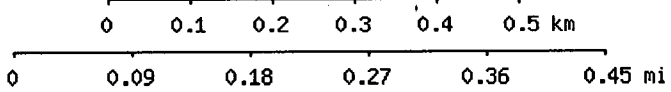


0170022-03  
 Gw14704  
 B63



Map center is 34° 56' 54"N, 90° 03' 08"W (WGS84/NAD83)  
**Horn Lake** quadrangle  
 Projection is UTM Zone 15 NAD83 Datum

M=0.023  
 G=1.69











DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR

PUBLIC SUPPLY WELLS PROJECT

GPS LOG

10/22/98

~~8 21 94~~

SHB + PEG  
 USER NAME(S): LACT DRS DATE: 7/28/94  
 UNIT DEQ #: 84090 FILE #: 80728/4C  
 HEALTH DEPT. #: 170022-03 ✓ ELEV. 285  
 USGS #: 501 B-63 OLWR #: FILE # A102217A  
 OWNER: City of Horn Lake MS-GW-14704

LOCATION: SE SE SW S 33 T 15 R 8W COUNTY: DeSoto

LOCATION DESCRIPTION: Horn Lk. Quad Well behind aviator 150' off road.

CASING DIA: 16" PUMP TYPE & SIZE: Turbine 1/100

GPS FIELD LOCATION: LAT. ~~34-56-93~~ LONG. ~~90-03-20 W~~

GPS CORRECTED LOCATION: LAT. 34° 56.905' LONG. 90° 03.140'

REMARKS: Well located at Cornwall + Pembroke.

Horn Lake Quad

~~Lat 34.949134N Long 90.053065W~~





DeSoto  
B 63  
7-17-87  
 Well #3

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

July 17 19 87 Layne Central Company DeSoto  
 date well completed firm name county well located

LANDOWNER:	description of formations encountered	from	to
City of Horn Lake			
Horn Lake, Mississippi (mailing address)	Clay	0	22
	Sand	22	40
	Sand & Gravel	40	75
WELL LOCATION:	White Sand & Clay	75	86
sec 30 T 1 N R 8 E S W	Tough Gray Clay	86	162
	Sand	162	164
	Sandy Clay & Sand	164	187
miles of (distance) (direction) (nearest town)	Fine Sand, Clay & Lignite	187	300
WELL PURPOSE: Municipal (home, irrigation, municipal, industrial)	Med. Fine, Sand & Clay	300	323
	Med. Sand, Clay & Lignite	323	391
WELL COMPLETION DATA:	Med. Sand & Lots of Clay	391	413
(1) diameter (inches) 16"	Sandy Clay & Sand	413	420
(2) total depth (feet) 415'	Hard Sand & Clay	420	435
(3) static water level (feet) _____ below top of ground. above	Med. Sand & Clay	435	458
(4) casing Steel, 358', (material) (depth)	Fine Sand & Clay	458	500
10" If telescope see back. (size)			
(5) screen 50', 363' (length) (depth to top)			
10" Stainless Steel (size) (material)			
(6) pump _____ 1000 (HP) (yield gpm)			
electric (type power)			
(7) electric log Yes (yes or no)			
Layne-Central Co. (organization running log)			
(8) how well bottom plugged Cement Plug			
DRILLERS REMARKS:			

RECEIVED  
 MISSISSIPPI DEPARTMENT OF NATURAL RESOURCES  
 BUREAU OF LAND AND WATER RESOURCES  
 JACSON, MISSISSIPPI 39209

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

1. Source of water is 124 SPRT aquifer.
2. Description of proposed water well:
- (a) DEPTH OF WELL: 415 feet. DRILLER (name): LAYNE CENTRAL
- (b) SURFACE CASING: Length: \_\_\_\_\_ feet. Diameter: 16 inches. Type: STEEL
- (c) SCREEN: Length: 50 feet. Diameter: 10 inches. Type: STAINLESS STEEL
- (d) PUMP: Type: VERTICAL CENTRIFUGAL. Size: 10" x 2 1/2" x 1 1/2". Capacity: 1000 gallons per minute.  
Number of stages: 4 Setting depth: 164 feet.
- (e) POWER UNIT: Type: TF 1018. Size: 100 horsepower.
- (f) TYPE OF COMPLETION: \_\_\_\_\_

**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 \_\_\_\_\_.  
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? \_\_\_\_\_ (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 \_\_\_\_\_  
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: \_\_\_\_\_
6. **OTHER use:** Explain in detail: \_\_\_\_\_

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

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

GARRY D. SMITH  
(Name)  
2285 GOODMAN RD  
(Address)  
HORN LAKE, MS 38637  
(City, State, Zip)  
601 393 6178  
(Telephone)

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

Garry D. Smith  
(Signature)

Subscribed and sworn to before me this 6 day of August, 19 93, at \_\_\_\_\_  
County of DeSoto. My commission expires \_\_\_\_\_ My Commission Expires August 25, 1998  
Rebecca Scott  
Notary Public

The box below is for office use only. *SPRT*

*B63*

Issued: <u>10-26-93</u>	Expires: <u>10-26-2003</u>	Fee Paid: <input checked="" type="checkbox"/>	Permit No. <u>GW-14704</u>
Lat. <u>34-56-59</u>	Long. <u>90-03-11</u>	Elev. <u>290</u>	USGS No.
Quad. <u>HORN LAKE</u>	Dist.		Basin No. <u>08010211</u>
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**

**DISCLOSED**

**AUG 09 1993**

*Fee Paid*

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

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

**LANDOWNER:**

(Name) CITY OF HORN LAKE NGW 17020009  
(S/S or Tax ID No.)

(Address) 2285 GOODMAN ROAD

(City) HORN LAKE MS 38637 (601) 393-6178  
(State and Zip) (Telephone Number)

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

(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):**

SE SW  
NW 1/4 of the NW 1/4 of Section 35, Township 1S, Range 8W, 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) \_\_\_\_\_ acre-feet per year at a maximum rate of \_\_\_\_\_ gallons per minute

(b) 1,537,920 .60 million gallons per day at a maximum rate of 1068 gallons per minute

(c) \_\_\_\_\_ acre feet of storage at normal pool

(d) \_\_\_\_\_ per \_\_\_\_\_ at a maximum rate of \_\_\_\_\_

Construction of proposed work will begin on (date) JULY 17, 1987 and will be completed by (date) \_\_\_\_\_, 1988.

WELL NO. 63  
Water will be used from (month) \_\_\_\_\_ to (month) \_\_\_\_\_ 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 \_\_\_\_\_ which drains into \_\_\_\_\_ 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)





