

Recorded by JAC

Date 8/72

JAC

11/19/76

U.S. GEOLOGICAL SURVEY  
WATER RESOURCES DIVISION  
MISSISSIPPI DISTRICT  
WELL RECORD

TRANSMITTED FOR ADP

Y17

Well No. F34

E-Log No.

County DeSoto

Site ID

345256090010601

R=0\*

T=AM\*

2=W\*

(V)

GEN. SITE DATA

Data reliab. 3=CT\*

Report. agency 4=USGS\*

Dist. 6=28\*

7=28\*

Co. 8=033\*

Lat. 34.5256

Long. 10=0900106

Well No. 12=F034\*

Location 13=NW SW S 26 T 025 R 08 W

Alt. 16=280\*

Hyd. Unit (OWDC) 20=

Date 21=0810011972\*

Well use 23=W\*

Water Use 24=P\*

Hole depth 27=

Well depth 28=330\*

WL 30=82\*

Date 31=0511611974\*

Source 33=S\*

Status 273=

OWNER

R=158\*

T=AM\*

Date 159#0810011972\*

Owner No.

Owner 161=NESBIT WA\*

FIELD ON

R=192\*

T=AM\*

Date 193#

Temp. 196#00010\*

197=

R=192\*

T=AM\*

Date 193#

Cond. 196#00095\*

197=

R=192\*

T=AM\*

Date 193#

pH 196#00400\*

197=

CONSTR.

R=58\*

T=AM\*

59#1\*

Date 60=0810011972\*

Remarks S

Drlg. 63=064\*

Name

Method 65=H\*

Finish 66=S\*

Super Layer

CASING

R=76\*

T=AM\*

59#1\*

Top csng. 77# 0\*

Bot. csng. 78=292\*

Diam. 79# 8\*

R=76\*

T=AM\*

59#1\*

Top csng. 77#

Bot. csng. 78=

Diam. 79#

OPENINGS

R=82\*

T=AM\*

59#1\*

Top 83# 292\*

Bottom 84=330\*

Type 85=S\*

Diam. 87=8\*

Size 88=

R=82\*

T=AM\*

59#1\*

Top 83#

Bottom 84=

Type 85=

Diam. 87=

Size 88=

23

YIELD

R=134 146\*

T=AM\*

147#1\*

Q 150=150\*

Q/S 272=

R=42\* T= Ⓚ M \* Lift type 43# 7\* Intake 44=     \* Power type 45= E\*

Date 38= 08/00/1972\* H.P. 46= 7.5\*

R=198\* T= A M \* Log 199# D\* Top 200= 0.\* Bot 201=     \* \*

R=198\* T= A M \* Log 199#     \* Top 200=     \* Bot 201=     \* \*

R=189\* T= A M \* E Log No. 190#     \* 191= M I S S D I S T \*

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

R=90\* T= A M \* 256# 1 \* Top 91= 290.\* Bot 92= 332.\*

Unit ID 93= 1245.P.R.T.\* Name of Unit Spawta sand.

R=90\* T= A M \* 256# 1 \* Top 91=     \* Bot 92=     \* \*

Unit ID 93=     \* Name of Unit     

R=98\* T= A M \* 99# 1 \* Unit tested 100=     \* \*

R=105\* T= A M \* 99# 1 \* Test No. 106#     \*

107=     \* Transmissivity (gal/d)/ft     

108=     \* Hydraul. cond. (gal/d)/ft<sup>2</sup>     

110=     \* Storage coeff. Boundaries     

DIRT

LOGS

ANAL.

AQUIFERS

HYDRAULICS

DeSoto  
F 34  
5-5-72

MISSISSIPPI  
BOARD OF WATER COMMISSIONERS  
416 North State Street  
Jackson, Mississippi 39201 **CODED**

WATER WELL DRILLERS LOG

May 5 1972 19 Singer Layne Central Division DeSoto

date well completed firm name county well located

LANDOWNER:	description of formations encountered	from	to
Nesbit Water Association			
Nesbit, Mississippi	Clay	0	18
(mailing address)	Gravel & Sand	18	35
WELL LOCATION:	Blue Clay	35	106
sec. 26 T. 2 S. R. 8 E. W.	Sand	106	221
(distance) miles (direction) of (nearest town)	Clay	221	256
WELL PURPOSE: Municipal	Sand	256	287
(home, irrigation, municipal, industrial)	Clay	287	290
WELL COMPLETION DATA:	Sand	290	332
(1) diameter (inches) 8"	Sandy Clay	332	
(2) total depth (feet) 292'			
(3) static water level (feet) 93 below top of ground.			
(4) casing steel 292' (material) (depth) 8" (size) If telescope see back.			
(5) screen 38'3" 48'-3" (length) (depth to top) 6" stainless steel (size) (material)			
(6) pump 7-1/2 150 (HP) (yield gpm) electric (type power)			
(7) electric log no (yes or no) (organization running log)			
(8) how well bottom plugged valve & shot			
DRILLERS REMARKS:			

**CODED**

Aug 11 1972

The box below is for office use only.

SPRT

F-34

well #3

Issued: 11-27-90	Expires: 11-27-2000	Fee Paid <input checked="" type="checkbox"/>	Permit No. GW-13009
Lat 34-52-52	Long 90-00-11	Elev 315'	USGS No.
Quad HORN LAKE	Dist.		Basin No. 060 30204
STAC			Dam Inv. No.
			Dam appl. No.

RECEIVED

SEP 25 1990

Department of Natural Resources  
Bureau of Land & Water Resources

for paid

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 THE PUBLIC WATERS OF THE STATE OF MISSISSIPPI

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:**  
 Nesbit Water Ass'n. 64 0439565  
 (Name) P.O. Box 76 (S/S or Tax ID No.)  
 (Address)  
 Nesbit MS 38651 (601) 429-9312  
 (City) (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):

NW 1/4 of the SW 1/4 of Section 25, Township 12S, Range 8 W, 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) .13 million gallons per day at a maximum rate of 250 gallons per minute  
 (c) \_\_\_\_\_ acre feet of storage at normal pool  
 (d) (approx. - two wells)  
149,600 gal. per day at a maximum rate of 250

Construction of proposed work will begin on (date) ???, 19\_\_ and will be completed by (date) WAS, 19 72

Water will be used from (month) Jan. 1 to (month) Dec. 31 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.  
 See D above

#### 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)

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

1. Source of water is \_\_\_\_\_ aquifer.
2. Description of proposed water well:
  - (a) DEPTH OF WELL: 332 feet. DRILLER (name): Singer Jayne Central
  - (b) SURFACE CASING: Length: 292 feet. Diameter: 8" inches. Type: \_\_\_\_\_
  - (c) SCREEN: Length: 38 feet. Diameter: 6" inches. Type: \_\_\_\_\_
  - (d) PUMP: Type: \_\_\_\_\_ Size: \_\_\_\_\_ Capacity: 250 gallons per minute.  
Number of stages: \_\_\_\_\_ Setting depth: \_\_\_\_\_ feet.
  - (e) POWER UNIT: Type: \_\_\_\_\_ Size: \_\_\_\_\_ 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 582.  
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? NO way of gauging this-county growing too, too fast!  
(Volume) (Year) (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:

Patty Brown  
(Name) Box 76  
(Address) \_\_\_\_\_  
Nesbit, MS 38651  
(City, State, Zip) \_\_\_\_\_  
429-9312  
(Telephone) \_\_\_\_\_

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

Patty Brown  
(Signature)

Subscribed and sworn to before me this 20<sup>th</sup> day of September 1990 at Hersando  
County of DeSoto. My commission expires 9/28/97

Colton S. ...  
Notary Public

DEPARTMENT OF ENVIRONMENTAL QUALITY - OLWR  
PUBLIC SUPPLY WELLS PROJECT

GPS LOG

USER NAME(S): SHB+PEG ZAR/DRB DATE: 8-21-94  
UNIT DEQ #: 84080 FILE #: 107/20/94  
HEALTH DEPT. #: 170014-01 ELEV. 269  
USGS #: 474 F-34 OLWR #: MS-GW-13009  
OWNER: MESBIT W/A  
LOCATION: NE/NW/SW S 25 T 2S R 8W COUNTY: DESOTO  
LOCATION DESCRIPTION: MESBIT W/A - 100ft south of Tank in s. West  
Corner of Fence  
CASING DIA: 8 1/2 PUMP TYPE & SIZE: Sub  
GPS FIELD LOCATION: LAT. 34.5291514 LONG. 90.0033282  
34° 52' 940" 90° 00' 176"  
GPS CORRECTED LOCATION: LAT. 34.88144164 LONG. 90.00332282  
REMARKS: SEE WELL #3 FOR LOCATION



INTER OR—GEOLOGICAL S.U.P.E. RESTON VIRGINIA—1982

**ROAD LEGEND**

- Improved Road .....
- Unimproved Road .....
- Trail .....

- Interstate Route
- U.S. Route
- State Route

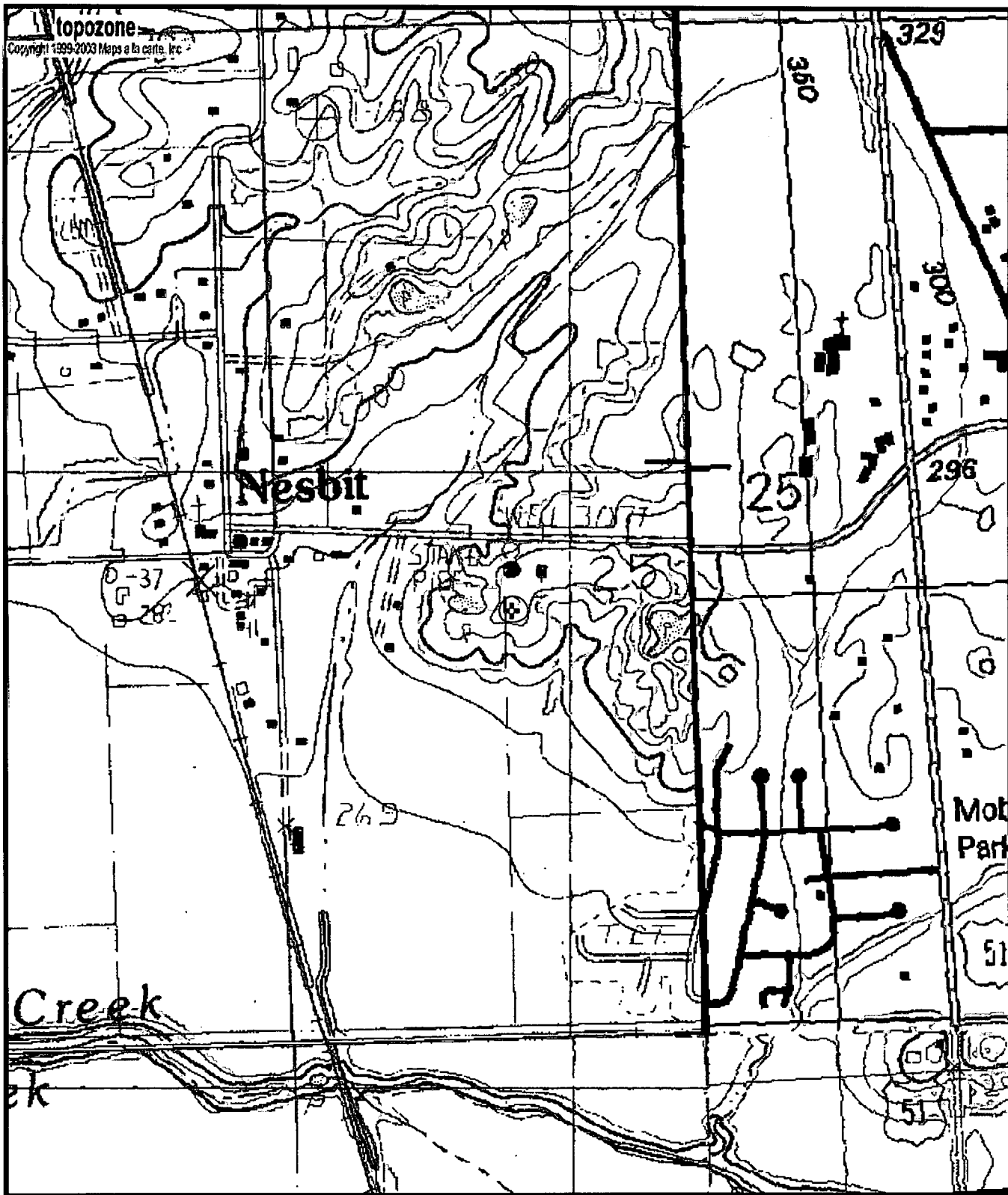


QUADRANGLE LOCATION

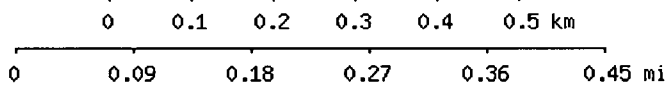
1	2	3	1 Fletcher Lake
			2 Southwest Memphis
			3 Southeast Memphis
4		5	4 Lake Cormorant
			5 Pleasant Hill
			6 Banks
6	7	8	7 Frees Corners
			8 Hernando

ADJOINING 7.5' QUADRANGLE NAMES

**HORN LAKE, MISS.—TENN.**  
**PROVISIONAL EDITION 1982**



0170014-01  
 6W13009  
 F34



Map center is 34° 52' 53"N, 90° 00' 12"W (WGS84/NAD83)

**Horn Lake** quadrangle

Projection is UTM Zone 15 NAD83 Datum

M=-0.006  
 G=1.715